284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	Q3097	**OrderDate:**	9/12/2025 1:28:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	D41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3097-01	**RE103D2-20250911**	**Water**			**09/11/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3097-04	**RE125D1-20250911**	**Water**			**09/11/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3097-05	**RE125D3-20250911**	**Water**			**09/11/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3097-06	**RE103D3-20250911**	**Water**			**09/11/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3097-07	**RE108D2-20250911**	**Water**			**09/11/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3097-08	**RE125D2-20250911**	**Water**			**09/11/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3097-08DL	**RE125D2-20250911DL**	**Water**			**09/11/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3097-09	**RE108D1-20250911**	**Water**			**09/11/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3097-10	**RE120D3-20250911**	**Water**			**09/11/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-11	**RE105D1-20250911**	**Water**			**09/11/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-12	**DUP04-20250911**	**Water**			**09/11/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

Q3097-13	**DUP05-20250911**	**Water**			**09/11/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-13DL	**DUP05-20250911DL**	**Water**			**09/11/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-14	**RE105D2-20250911**	**Water**			**09/11/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-15	**RE117D2-20250911**	**Water**			**09/11/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-19	**RE120D1-20250912**	**Water**			**09/12/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-19DL	**RE120D1-20250912DL**	**Water**			**09/12/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-20	**DUP06-20250912**	**Water**			**09/12/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/20/25	
Q3097-20DL	**DUP06-20250912DL**	**Water**			**09/12/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/22/25	
Q3097-21	**RE120D2-20250912**	**Water**			**09/12/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-22	**RE134D1-20250912**	**Water**			**09/12/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-23	**RE134D4-20250912**	**Water**			**09/12/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-24	**RE134D2-20250912**	**Water**			**09/12/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-24DL	**RE134D2-20250912DL**	**Water**			**09/12/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/22/25	
Q3097-25	**RE134D3-20250912**	**Water**			**09/12/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

Q3097-25DL	**RE134D3-20250912DL**	**Water**			**09/12/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/22/25	
Q3097-26	**EB01-20250912**	**Water**			**09/12/25**			**09/12/25**
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RE103D2-20250911									
Q3097-01	RE103D2-20250911	WATER	1,4-Dioxane	0.370		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.37**			
			Total Concentration:			**0.37**			
Client ID : RE125D1-20250911									
Q3097-04	RE125D1-20250911	WATER	1,4-Dioxane	4.700		0.07	0.2	0.2	ug/L
			Total Svoc :			**4.70**			
			Total Concentration:			**4.70**			
Client ID : RE125D3-20250911									
Q3097-05	RE125D3-20250911	WATER	1,4-Dioxane	2.100		0.07	0.2	0.2	ug/L
			Total Svoc :			**2.10**			
			Total Concentration:			**2.10**			
Client ID : RE103D3-20250911									
Q3097-06	RE103D3-20250911	WATER	1,4-Dioxane	0.100	J	0.07	0.2	0.2	ug/L
			Total Svoc :			**0.10**			
			Total Concentration:			**0.10**			
Client ID : RE108D2-20250911									
Q3097-07	RE108D2-20250911	WATER	1,4-Dioxane	2.100		0.07	0.2	0.2	ug/L
			Total Svoc :			**2.10**			
			Total Concentration:			**2.10**			
Client ID : RE125D2-20250911									
Q3097-08	RE125D2-20250911	WATER	1,4-Dioxane	7.400	E	0.07	0.2	0.2	ug/L
			Total Svoc :			**7.40**			
			Total Concentration:			**7.40**			
Client ID : RE125D2-20250911DL									
Q3097-08DL	RE125D2-20250911DL	WATER	1,4-Dioxane	8.200	D	0.33	1	1	ug/L
			Total Svoc :			**8.20**			
			Total Concentration:			**8.20**			
Client ID : RE108D1-20250911									
Q3097-09	RE108D1-20250911	WATER	1,4-Dioxane	2.800		0.07	0.2	0.2	ug/L
			Total Svoc :			**2.80**			
			Total Concentration:			**2.80**			
Client ID : RE120D3-20250911									
Q3097-10	RE120D3-20250911	WATER	1,4-Dioxane	0.140	J	0.07	0.2	0.2	ug/L
			Total Svoc :			**0.14**			

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:			**0.14**			
Client ID :	**RE105D1-20250911**								
Q3097-11	RE105D1-20250911	WATER	1,4-Dioxane	3.200		0.07	0.2	0.2	ug/L
			Total Svoc :			**3.20**			
			Total Concentration:			**3.20**			
Client ID :	**DUP04-20250911**								
Q3097-12	DUP04-20250911	WATER	1,4-Dioxane	3.700		0.07	0.2	0.2	ug/L
			Total Svoc :			**3.70**			
			Total Concentration:			**3.70**			
Client ID :	**DUP05-20250911**								
Q3097-13	DUP05-20250911	WATER	1,4-Dioxane	5.200	E	0.07	0.2	0.2	ug/L
			Total Svoc :			**5.20**			
			Total Concentration:			**5.20**			
Client ID :	**DUP05-20250911DL**								
Q3097-13DL	DUP05-20250911DL	WATER	1,4-Dioxane	4.500	D	0.13	0.4	0.4	ug/L
			Total Svoc :			**4.50**			
			Total Concentration:			**4.50**			
Client ID :	**RE105D2-20250911**								
Q3097-14	RE105D2-20250911	WATER	1,4-Dioxane	3.100		0.07	0.2	0.2	ug/L
			Total Svoc :			**3.10**			
			Total Concentration:			**3.10**			
Client ID :	**RE120D1-20250912**								
Q3097-19	RE120D1-20250912	WATER	1,4-Dioxane	7.000	E	0.07	0.2	0.2	ug/L
			Total Svoc :			**7.00**			
			Total Concentration:			**7.00**			
Client ID :	**RE120D1-20250912DL**								
Q3097-19DL	RE120D1-20250912DL	WATER	1,4-Dioxane	5.100	D	0.13	0.4	0.4	ug/L
			Total Svoc :			**5.10**			
			Total Concentration:			**5.10**			
Client ID :	**DUP06-20250912**								
Q3097-20	DUP06-20250912	WATER	1,4-Dioxane	7.400	E	0.07	0.2	0.2	ug/L
			Total Svoc :			**7.40**			
			Total Concentration:			**7.40**			
Client ID :	**DUP06-20250912DL**								
Q3097-20DL	DUP06-20250912DL	WATER	1,4-Dioxane	7.700	D	0.13	0.4	0.4	ug/L
			Total Svoc :			**7.70**			

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:			**7.70**			
Client ID :	**RE120D2-20250912**								
Q3097-21	RE120D2-20250912	WATER	1,4-Dioxane	3.200		0.07	0.2	0.2	ug/L
			Total Svoc :			**3.20**			
			Total Concentration:			**3.20**			
Client ID :	**RE134D1-20250912**								
Q3097-22	RE134D1-20250912	WATER	1,4-Dioxane	1.100		0.07	0.2	0.2	ug/L
			Total Svoc :			**1.10**			
			Total Concentration:			**1.10**			
Client ID :	**RE134D4-20250912**								
Q3097-23	RE134D4-20250912	WATER	1,4-Dioxane	1.500		0.07	0.2	0.2	ug/L
			Total Svoc :			**1.50**			
			Total Concentration:			**1.50**			
Client ID :	**RE134D2-20250912**								
Q3097-24	RE134D2-20250912	WATER	1,4-Dioxane	6.700	E	0.07	0.2	0.2	ug/L
			Total Svoc :			**6.70**			
			Total Concentration:			**6.70**			
Client ID :	**RE134D2-20250912DL**								
Q3097-24DL	RE134D2-20250912DL	WATER	1,4-Dioxane	6.500	D	0.13	0.4	0.4	ug/L
			Total Svoc :			**6.50**			
			Total Concentration:			**6.50**			
Client ID :	**RE134D3-20250912**								
Q3097-25	RE134D3-20250912	WATER	1,4-Dioxane	5.700	E	0.07	0.2	0.2	ug/L
			Total Svoc :			**5.70**			
			Total Concentration:			**5.70**			
Client ID :	**RE134D3-20250912DL**								
Q3097-25DL	RE134D3-20250912DL	WATER	1,4-Dioxane	6.800	D	0.13	0.4	0.4	ug/L
			Total Svoc :			**6.80**			
			Total Concentration:			**6.80**			
Client ID :	**EB01-20250912**								
Q3097-26	EB01-20250912	WATER	1,4-Dioxane	0.110	J	0.07	0.2	0.2	ug/L
			Total Svoc :			**0.11**			
			Total Concentration:			**0.11**			

QC
SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB169693BL	PB169693BL	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.32	80		30	150
		Nitrobenzene-d5	0.4	0.38	96		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
PB169693BS	PB169693BS	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.29	73		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.32	81		58	132
Q3097-01	RE103D2-20250911	2-Methylnaphthalene-d10	0.4	0.28	71		30	150
		Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.38	94		58	132
Q3097-02MS	RE103D2-20250911MS	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.35	87		30	150
		Nitrobenzene-d5	0.4	0.33	81		55	111
		2-Fluorobiphenyl	0.4	0.30	76		53	106
		Terphenyl-d14	0.4	0.43	107		58	132
Q3097-03MSD	RE103D2-20250911MSD	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.31	76		53	106
		Terphenyl-d14	0.4	0.41	101		58	132
Q3097-04	RE125D1-20250911	2-Methylnaphthalene-d10	0.4	0.25	63		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.31	77		55	111
		2-Fluorobiphenyl	0.4	0.29	72		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
Q3097-05	RE125D3-20250911	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.36	91		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
Q3097-06	RE103D3-20250911	2-Methylnaphthalene-d10	0.4	0.25	63		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.31	79		55	111
		2-Fluorobiphenyl	0.4	0.30	74		53	106
		Terphenyl-d14	0.4	0.40	101		58	132
Q3097-07	RE108D2-20250911	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.32	79		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
Q3097-08	RE125D2-20250911	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.33	81		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.43	108		58	132
Q3097-08DL	RE125D2-20250911DL	2-Methylnaphthalene-d10	0.4	0.29	72		30	150

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q3097-08DL	RE125D2-20250911DL	Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.37	91		53	106
		Terphenyl-d14	0.4	0.47	116		58	132
Q3097-09	RE108D1-20250911	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.42	104		58	132

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB169712BL	PB169712BL	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.36	89		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.41	101		58	132
PB169712BS	PB169712BS	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.34	86		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
PB169712BSD	PB169712BSD	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.43	108		58	132
Q3097-10	RE120D3-20250911	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.40	99		58	132
Q3097-11	RE105D1-20250911	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.36	89		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.41	102		58	132
Q3097-12	DUP04-20250911	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.40	99		58	132
Q3097-13	DUP05-20250911	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.32	80		53	106
		Terphenyl-d14	0.4	0.36	91		58	132
Q3097-13DL	DUP05-20250911DL	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.36	89		58	132
Q3097-14	RE105D2-20250911	2-Methylnaphthalene-d10	0.4	0.27	67		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
Q3097-15	RE117D2-20250911	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.35	86		58	132
Q3097-19	RE120D1-20250912	2-Methylnaphthalene-d10	0.4	0.26	65		30	150

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
Q3097-19	RE120D1-20250912	Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.37	94		58	132
Q3097-19DL	RE120D1-20250912DL	2-Methylnaphthalene-d10	0.4	0.18	46		30	150
		Fluoranthene-d10	0.4	0.22	56		30	150
		Nitrobenzene-d5	0.4	0.23	58		55	111
		2-Fluorobiphenyl	0.4	0.22	54		53	106
		Terphenyl-d14	0.4	0.27	67		58	132
Q3097-20	DUP06-20250912	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.36	91		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.40	99		58	132
Q3097-20DL	DUP06-20250912DL	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.42	104		58	132
Q3097-21	RE120D2-20250912	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
Q3097-22	RE134D1-20250912	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.31	78		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.41	103		58	132
Q3097-23	RE134D4-20250912	2-Methylnaphthalene-d10	0.4	0.27	67		30	150
		Fluoranthene-d10	0.4	0.36	91		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.40	101		58	132
Q3097-24	RE134D2-20250912	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
Q3097-24DL	RE134D2-20250912DL	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.36	89		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.37	93		58	132
Q3097-25	RE134D3-20250912	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.41	102		58	132
Q3097-25DL	RE134D3-20250912DL	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.36	91		30	150

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q3097-25DL	RE134D3-20250912DL	Nitrobenzene-d5	0.4	0.35	87		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.41	102		58	132
Q3097-26	EB01-20250912	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.39	98		58	132

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	**Q3097**	**Analytical Method:**	**SW8270-Modified**
Client:	**AECOM Technical Services, Inc.**	**DataFile:**	**BN037772.D**

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q3097-02MS		**Client Sample ID: RE103D2-20250911MS**									
1,4-Dioxane	0.4	0.37	0.72	ug/L	88				70	130	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3097 **Analytical Method:** SW8270-Modified

Client: AECOM Technical Services, Inc. **DataFile:** BN037773.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q3097-03MSD		**Client Sample ID:** RE103D2-20250911MSD									
1,4-Dioxane	0.4	0.37	0.73	ug/L	90		2		70	130	20

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3097 **Analytical Method:** 8270-Modified

Client: AECOM Technical Services, Inc. **DataFile:** BN037792.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB169693BS	1,4-Dioxane	0.4	0.31	ug/L	78				70	130	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3097 **Analytical Method:** 8270-Modified

Client: AECOM Technical Services, Inc. **DataFile:** BN037885.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB169712BS	1,4-Dioxane	0.4	0.32	ug/L	80				70	130	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3097 **Analytical Method:** 8270-Modified

Client: AECOM Technical Services, Inc. **DataFile:** BN037888.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB169712BSD	1,4-Dioxane	0.4	0.33	ug/L	83	6			70	130	20

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB169693BL

Lab Name: Alliance | Contract: AECO15

Lab Code: ACE | SDG NO.: Q3097

Lab File ID: BN037777.D | Lab Sample ID: PB169693BL

Instrument ID: BNA_N | Date Extracted: 09/15/2025

Matrix: (soil/water) Water | Date Analyzed: 09/18/2025

Level: (low/med) LOW | Time Analyzed: 15:10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
RE108D1-20250911	Q3097-09	BN037778.D	09/18/2025
RE125D1-20250911	Q3097-04	BN037779.D	09/18/2025
RE125D3-20250911	Q3097-05	BN037780.D	09/18/2025
RE103D3-20250911	Q3097-06	BN037781.D	09/18/2025
PB169693BS	PB169693BS	BN037792.D	09/19/2025
RE103D2-20250911	Q3097-01	BN037771.D	09/18/2025
RE103D2-20250911MS	Q3097-02MS	BN037772.D	09/18/2025
RE108D2-20250911	Q3097-07	BN037769.D	09/18/2025
RE125D2-20250911	Q3097-08	BN037770.D	09/18/2025
RE103D2-20250911MSD	Q3097-03MSD	BN037773.D	09/18/2025

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB169712BL

Lab Name: Alliance | Contract: AECO15

Lab Code: ACE | SDG NO.: Q3097

Lab File ID: BN037872.D | Lab Sample ID: PB169712BL

Instrument ID: BNA_N | Date Extracted: 09/16/2025

Matrix: (soil/water) Water | Date Analyzed: 09/24/2025

Level: (low/med) LOW | Time Analyzed: 10:32

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169712BS	PB169712BS	BN037885.D	09/25/2025
PB169712BSD	PB169712BSD	BN037888.D	09/25/2025
RE120D3-20250911	Q3097-10	BN037801.D	09/19/2025
RE105D1-20250911	Q3097-11	BN037802.D	09/19/2025
DUP04-20250911	Q3097-12	BN037803.D	09/19/2025
DUP05-20250911	Q3097-13	BN037804.D	09/19/2025
RE105D2-20250911	Q3097-14	BN037805.D	09/19/2025
RE117D2-20250911	Q3097-15	BN037806.D	09/19/2025
RE120D1-20250912	Q3097-19	BN037807.D	09/19/2025
RE120D2-20250912	Q3097-21	BN037819.D	09/19/2025
RE134D1-20250912	Q3097-22	BN037820.D	09/19/2025
RE134D4-20250912	Q3097-23	BN037821.D	09/19/2025
RE134D2-20250912	Q3097-24	BN037822.D	09/19/2025
RE134D3-20250912	Q3097-25	BN037823.D	09/19/2025
EB01-20250912	Q3097-26	BN037824.D	09/19/2025
DUP06-20250912	Q3097-20	BN037844.D	09/20/2025

COMMENTS:

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance — Contract: AECO15

Lab Code: ACE — SDG NO.: Q3097

Lab File ID: BN037689.D — DFTPP Injection Date: 09/11/2025

Instrument ID: BNA_N — DFTPP Injection Time: 07:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (1) 1
69	Mass 69 relative abundance	36.7
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.2
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	71
443	15.0 - 24.0% of mass 442	14.5 (20.4) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037691.D	09/11/2025	09:56
SSTDICC0.2	SSTDICC0.2	BN037692.D	09/11/2025	10:32
SSTDICCC0.4	SSTDICCC0.4	BN037693.D	09/11/2025	11:08
SSTDICC0.8	SSTDICC0.8	BN037694.D	09/11/2025	11:44
SSTDICC1.6	SSTDICC1.6	BN037695.D	09/11/2025	12:20
SSTDICC3.2	SSTDICC3.2	BN037696.D	09/11/2025	12:56
SSTDICC5.0	SSTDICC5.0	BN037697.D	09/11/2025	13:33

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: BN037758.D DFTPP Injection Date: 09/18/2025

Instrument ID: BNA_N DFTPP Injection Time: 02:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (1.1) 1
69	Mass 69 relative abundance	37.4
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	14.3
442	Greater than 50% of mass 198	82.9
443	15.0 - 24.0% of mass 442	16.5 (19.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037759.D	09/18/2025	02:46
RE108D2-20250911	Q3097-07	BN037769.D	09/18/2025	08:47
RE125D2-20250911	Q3097-08	BN037770.D	09/18/2025	09:23
RE103D2-20250911	Q3097-01	BN037771.D	09/18/2025	10:00
RE103D2-20250911MS	Q3097-02MS	BN037772.D	09/18/2025	11:48
RE103D2-20250911MSD	Q3097-03MSD	BN037773.D	09/18/2025	12:25
SSTDCCC0.4EC	SSTDCCC0.4	BN037774.D	09/18/2025	13:16

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance — Contract: AECO15

Lab Code: ACE — SDG NO.: Q3097

Lab File ID: BN037775.D — DFTPP Injection Date: 09/18/2025

Instrument ID: BNA_N — DFTPP Injection Time: 13:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.7) 1
69	Mass 69 relative abundance	39.3
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	13.9
442	Greater than 50% of mass 198	85.7
443	15.0 - 24.0% of mass 442	16.2 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037776.D	09/18/2025	14:32
PB169693BL	PB169693BL	BN037777.D	09/18/2025	15:10
RE108D1-20250911	Q3097-09	BN037778.D	09/18/2025	15:47
RE125D1-20250911	Q3097-04	BN037779.D	09/18/2025	16:23
RE125D3-20250911	Q3097-05	BN037780.D	09/18/2025	17:00
RE103D3-20250911	Q3097-06	BN037781.D	09/18/2025	17:36
RE125D2-20250911DL	Q3097-08DL	BN037790.D	09/18/2025	23:03
PB169693BS	PB169693BS	BN037792.D	09/19/2025	00:16
SSTDCCC0.4EC	SSTDCCC0.4	BN037793.D	09/19/2025	00:52

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance — Contract: AECO15

Lab Code: ACE — SDG NO.: Q3097

Lab File ID: BN037794.D — DFTPP Injection Date: 09/19/2025

Instrument ID: BNA_N — DFTPP Injection Time: 02:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.4) 1
69	Mass 69 relative abundance	37
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	14.6
442	Greater than 50% of mass 198	92.6
443	15.0 - 24.0% of mass 442	16.9 (18.3) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037795.D	09/19/2025	02:47
RE120D3-20250911	Q3097-10	BN037801.D	09/19/2025	06:25
RE105D1-20250911	Q3097-11	BN037802.D	09/19/2025	07:01
DUP04-20250911	Q3097-12	BN037803.D	09/19/2025	07:37
DUP05-20250911	Q3097-13	BN037804.D	09/19/2025	08:13
RE105D2-20250911	Q3097-14	BN037805.D	09/19/2025	08:49
RE117D2-20250911	Q3097-15	BN037806.D	09/19/2025	09:25
RE120D1-20250912	Q3097-19	BN037807.D	09/19/2025	10:02
SSTDCCC0.4EC	SSTDCCC0.4	BN037811.D	09/19/2025	13:03

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance — Contract: AECO15

Lab Code: ACE — SDG NO.: Q3097

Lab File ID: BN037812.D — DFTPP Injection Date: 09/19/2025

Instrument ID: BNA_N — DFTPP Injection Time: 13:39

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.4) 1
69	Mass 69 relative abundance	39
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	12.9
442	Greater than 50% of mass 198	79.5
443	15.0 - 24.0% of mass 442	15.9 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037813.D	09/19/2025	14:19
DUP05-20250911DL	Q3097-13DL	BN037817.D	09/19/2025	16:45
RE120D1-20250912DL	Q3097-19DL	BN037818.D	09/19/2025	17:21
RE120D2-20250912	Q3097-21	BN037819.D	09/19/2025	17:58
RE134D1-20250912	Q3097-22	BN037820.D	09/19/2025	18:34
RE134D4-20250912	Q3097-23	BN037821.D	09/19/2025	19:11
RE134D2-20250912	Q3097-24	BN037822.D	09/19/2025	19:47
RE134D3-20250912	Q3097-25	BN037823.D	09/19/2025	20:24
EB01-20250912	Q3097-26	BN037824.D	09/19/2025	21:00
SSTDCCC0.4EC	SSTDCCC0.4	BN037830.D	09/20/2025	00:39

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: BN037831.D DFTPP Injection Date: 09/20/2025

Instrument ID: BNA_N DFTPP Injection Time: 01:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.8 (1.9) 1
69	Mass 69 relative abundance	40.3
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	80
443	15.0 - 24.0% of mass 442	16.2 (20.2) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037832.D	09/20/2025	02:35
DUP06-20250912	Q3097-20	BN037844.D	09/20/2025	09:51
SSTDCCC0.4EC	SSTDCCC0.4	BN037847.D	09/20/2025	11:39

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance — Contract: AECO15

Lab Code: ACE — SDG NO.: Q3097

Lab File ID: BN037848.D — DFTPP Injection Date: 09/22/2025

Instrument ID: BNA_N — DFTPP Injection Time: 08:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	13.4
442	Greater than 50% of mass 198	86.5
443	15.0 - 24.0% of mass 442	17.1 (19.7) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037849.D	09/22/2025	10:19
RE134D2-20250912DL	Q3097-24DL	BN037851.D	09/22/2025	11:31
RE134D3-20250912DL	Q3097-25DL	BN037852.D	09/22/2025	12:08
DUP06-20250912DL	Q3097-20DL	BN037858.D	09/22/2025	15:45
SSTDCCC0.4EC	SSTDCCC0.4	BN037859.D	09/22/2025	16:39

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG NO.:	Q3097
Lab File ID:	BN037860.D	DFTPP Injection Date:	09/23/2025
Instrument ID:	BNA_N	DFTPP Injection Time:	11:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	39.3
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	12.8
442	Greater than 50% of mass 198	85
443	15.0 - 24.0% of mass 442	17.7 (20.8) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037861.D	09/23/2025	12:13
SSTDICC0.2	SSTDICC0.2	BN037862.D	09/23/2025	12:49
SSTDICCC0.4	SSTDICCC0.4	BN037863.D	09/23/2025	13:25
SSTDICC0.8	SSTDICC0.8	BN037864.D	09/23/2025	14:02
SSTDICC1.6	SSTDICC1.6	BN037865.D	09/23/2025	14:38
SSTDICC3.2	SSTDICC3.2	BN037866.D	09/23/2025	15:15
SSTDICC5.0	SSTDICC5.0	BN037867.D	09/23/2025	15:51

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: BN037870.D DFTPP Injection Date: 09/24/2025

Instrument ID: BNA_N DFTPP Injection Time: 09:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.5) 1
69	Mass 69 relative abundance	40.2
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	14.1
442	Greater than 50% of mass 198	88.3
443	15.0 - 24.0% of mass 442	17.7 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037871.D	09/24/2025	09:54
PB169712BL	PB169712BL	BN037872.D	09/24/2025	10:32
SSTDCCC0.4EC	SSTDCCC0.4	BN037881.D	09/24/2025	18:52

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance — Contract: AECO15

Lab Code: ACE — SDG NO.: Q3097

Lab File ID: BN037882.D — DFTPP Injection Date: 09/25/2025

Instrument ID: BNA_N — DFTPP Injection Time: 10:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	42.3
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	85
443	15.0 - 24.0% of mass 442	17.7 (20.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037883.D	09/25/2025	11:31
PB169712BS	PB169712BS	BN037885.D	09/25/2025	12:44
PB169712BSD	PB169712BSD	BN037888.D	09/25/2025	14:34
SSTDCCC0.4EC	SSTDCCC0.4	BN037901.D	09/25/2025	22:31

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID : SSTDCCC0.4 Date Analyzed: 09/18/2025

Lab File ID: BN037759.D Time Analyzed: 02:46

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	8012	7.833	21664	10.64	10192	14.48
	UPPER LIMIT	16024	8.333	43328	11.137	20384	14.984
	LOWER LIMIT	4006	7.333	10832	10.137	5096	13.984
	EPA SAMPLE NO.						
01	RE125D2-20250911	6450	7.83	17916	10.64	8773	14.48
02	RE103D2-20250911	8062	7.83	22030	10.64	10128	14.48
03	RE103D2-20250911MS	7218	7.83	19437	10.64	8792	14.48
04	RE103D2-20250911MSD	7159	7.83	19099	10.64	8494	14.48
05	RE108D2-20250911	7633	7.83	20699	10.64	9180	14.48

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID: SSTDCCC0.4 Date Analyzed: 09/18/2025

Lab File ID: BN037759.D Time Analyzed: 02:46

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	18613	17.235	16797	21.411	18043	23.741
	UPPER LIMIT	37226	17.735	33594	21.911	36086	24.241
	LOWER LIMIT	9306.5	16.735	8398.5	20.911	9021.5	23.241
	EPA SAMPLE NO.						
01	RE125D2-20250911	17405	17.24	15996	21.41	16222	23.74
02	RE103D2-20250911	18234	17.24	14812	21.41	15070	23.75
03	RE103D2-20250911MS	14560	17.24	11077	21.41	10712	23.74
04	RE103D2-20250911MSD	14218	17.24	11982	21.41	11726	23.75
05	RE108D2-20250911	15761	17.24	12936	21.41	13802	23.74

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID : SSTDCCC0.4 Date Analyzed: 09/18/2025

Lab File ID: BN037776.D Time Analyzed: 14:32

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	7127	7.833	18984	10.64	8698	14.48
	UPPER LIMIT	14254	8.333	37968	11.137	17396	14.984
	LOWER LIMIT	3563.5	7.333	9492	10.137	4349	13.984
	EPA SAMPLE NO.						
01	PB169693BL	6667	7.84	17045	10.64	7049	14.48
02	RE108D1-20250911	6091	7.83	16121	10.64	7264	14.48
03	RE125D1-20250911	6931	7.83	18212	10.64	8174	14.48
04	RE125D3-20250911	7245	7.83	19496	10.64	8745	14.48
05	PB169693BS	7441	7.83	19392	10.64	8149	14.48
06	RE103D3-20250911	6672	7.83	17743	10.64	7701	14.48
07	RE125D2-20250911DL	6110	7.83	16499	10.64	7574	14.48

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID: SSTDCCC0.4 Date Analyzed: 09/18/2025

Lab File ID: BN037776.D Time Analyzed: 14:32

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	14526	17.235	10438	21.411	10600	23.744
	UPPER LIMIT	29052	17.735	20876	21.911	21200	24.244
	LOWER LIMIT	7263	16.735	5219	20.911	5300	23.244
	EPA SAMPLE NO.						
01	PB169693BL	11652	17.24	9221	21.41	9002	23.75
02	RE108D1-20250911	13940	17.24	12095	21.41	11352	23.75
03	RE125D1-20250911	15954	17.24	14259	21.41	14695	23.75
04	RE125D3-20250911	15845	17.24	13110	21.41	12712	23.75
05	PB169693BS	12386	17.24	10095	21.41	10200	23.74
06	RE103D3-20250911	13778	17.24	11339	21.41	11507	23.74
07	RE125D2-20250911DL	14919	17.24	12875	21.40	12853	23.74

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID : SSTDCCC0.4 Date Analyzed: 09/19/2025

Lab File ID: BN037795.D Time Analyzed: 02:47

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	7724	7.833	19361	10.64	8621	14.48
	UPPER LIMIT	15448	8.333	38722	11.137	17242	14.984
	LOWER LIMIT	3862	7.333	9680.5	10.137	4310.5	13.984
	EPA SAMPLE NO.						
01	RE120D3-20250911	6805	7.83	16558	10.64	7363	14.48
02	RE105D1-20250911	6841	7.83	16631	10.64	7228	14.48
03	DUP04-20250911	6422	7.83	16969	10.64	7436	14.48
04	DUP05-20250911	5966	7.83	15958	10.64	7282	14.48
05	RE105D2-20250911	6733	7.83	16370	10.64	7362	14.48
06	RE117D2-20250911	5758	7.83	15439	10.64	7097	14.48
07	RE120D1-20250912	5776	7.83	15322	10.64	6856	14.48

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID: SSTDCCC0.4 Date Analyzed: 09/19/2025

Lab File ID: BN037795.D Time Analyzed: 02:47

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	14380	17.235	11169	21.411	11840	23.742
	UPPER LIMIT	28760	17.735	22338	21.911	23680	24.242
	LOWER LIMIT	7190	16.735	5584.5	20.911	5920	23.242
	EPA SAMPLE NO.						
01	RE120D3-20250911	12865	17.24	10547	21.41	10142	23.74
02	RE105D1-20250911	12396	17.24	9967	21.41	9393	23.74
03	DUP04-20250911	12905	17.24	10811	21.41	9925	23.74
04	DUP05-20250911	14121	17.24	13292	21.41	12196	23.74
05	RE105D2-20250911	13809	17.24	11974	21.41	11341	23.74
06	RE117D2-20250911	13316	17.24	11984	21.41	11150	23.74
07	RE120D1-20250912	12918	17.24	11066	21.41	10367	23.74

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID : SSTDCCC0.4 Date Analyzed: 09/19/2025

Lab File ID: BN037813.D Time Analyzed: 14:19

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	4812	7.833	12410	10.64	5585	14.48
	UPPER LIMIT	9624	8.333	24820	11.137	11170	14.984
	LOWER LIMIT	2406	7.333	6205	10.137	2792.5	13.984
	EPA SAMPLE NO.						
01	EB01-20250912	4515	7.83	12030	10.64	5004	14.48
02	RE120D2-20250912	4690	7.83	12247	10.64	5203	14.48
03	RE134D1-20250912	4623	7.83	12153	10.64	5319	14.48
04	RE134D4-20250912	4710	7.83	14487	10.64	6237	14.48
05	RE134D2-20250912	4342	7.83	12538	10.64	4964	14.48
06	RE134D3-20250912	5215	7.83	13534	10.64	5080	14.48
07	DUP05-20250911DL	5661	7.83	14750	10.64	6209	14.48
08	RE120D1-20250912DL	8131	7.83	21334	10.64	9041	14.48

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID: SSTDCCC0.4 Date Analyzed: 09/19/2025

Lab File ID: BN037813.D Time Analyzed: 14:19

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	9638	17.235	8466	21.411	8084	23.739
	UPPER LIMIT	19276	17.735	16932	21.911	16168	24.239
	LOWER LIMIT	4819	16.735	4233	20.911	4042	23.239
	EPA SAMPLE NO.						
01	EB01-20250912	8479	17.22	7497	21.40	7192	23.74
02	RE120D2-20250912	9585	17.24	7866	21.41	7673	23.74
03	RE134D1-20250912	10150	17.24	9405	21.41	8969	23.74
04	RE134D4-20250912	11940	17.24	10042	21.41	9356	23.74
05	RE134D2-20250912	9435	17.24	8486	21.41	8219	23.74
06	RE134D3-20250912	9523	17.22	8588	21.40	8162	23.74
07	DUP05-20250911DL	10700	17.24	9109	21.41	8982	23.74
08	RE120D1-20250912DL	15081	17.24	11372	21.41	11377	23.74

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID : SSTDCCC0.4 Date Analyzed: 09/20/2025

Lab File ID: BN037832.D Time Analyzed: 02:35

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	6232	7.825	16500	10.64	7183	14.48
	UPPER LIMIT	12464	8.325	33000	11.137	14366	14.984
	LOWER LIMIT	3116	7.325	8250	10.137	3591.5	13.984
	EPA SAMPLE NO.						
01	DUP06-20250912	5678	7.83	14769	10.63	5979	14.48

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID: SSTDCCC0.4 Date Analyzed: 09/20/2025

Lab File ID: BN037832.D Time Analyzed: 02:35

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	11907	17.223	9777	21.402	10066	23.736
	UPPER LIMIT	23814	17.723	19554	21.902	20132	24.236
	LOWER LIMIT	5953.5	16.723	4888.5	20.902	5033	23.236
	EPA SAMPLE NO.						
01	DUP06-20250912	10331	17.22	8651	21.40	8407	23.74

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID : SSTDCCC0.4 Date Analyzed: 09/22/2025

Lab File ID: BN037849.D Time Analyzed: 10:19

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	6007	7.833	15935	10.64	7024	14.48
	UPPER LIMIT	12014	8.333	31870	11.137	14048	14.984
	LOWER LIMIT	3003.5	7.333	7967.5	10.137	3512	13.984
	EPA SAMPLE NO.						
01	DUP06-20250912DL	5114	7.83	13234	10.63	5436	14.47
02	RE134D2-20250912DL	5950	7.83	15397	10.63	6317	14.48
03	RE134D3-20250912DL	6180	7.83	16337	10.63	6729	14.48

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID: SSTDCCC0.4 Date Analyzed: 09/22/2025

Lab File ID: BN037849.D Time Analyzed: 10:19

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	11177	17.223	8688	21.411	8600	23.738
	UPPER LIMIT	22354	17.723	17376	21.911	17200	24.238
	LOWER LIMIT	5588.5	16.723	4344	20.911	4300	23.238
	EPA SAMPLE NO.						
01	DUP06-20250912DL	9913	17.22	8645	21.40	8016	23.74
02	RE134D2-20250912DL	11463	17.22	10054	21.40	9647	23.74
03	RE134D3-20250912DL	12081	17.22	10388	21.40	9986	23.74

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID : SSTDCCC0.4 Date Analyzed: 09/24/2025

Lab File ID: BN037871.D Time Analyzed: 09:54

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	6027	7.818	16875	10.63	8790	14.47
	UPPER LIMIT	12054	8.318	33750	11.126	17580	14.973
	LOWER LIMIT	3013.5	7.318	8437.5	10.126	4395	13.973
	EPA SAMPLE NO.						
01	PB169712BL	6892	7.83	18348	10.63	8435	14.47

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID: SSTDCCC0.4 Date Analyzed: 09/24/2025

Lab File ID: BN037871.D Time Analyzed: 09:54

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	17707	17.223	15660	21.402	14846	23.735
	UPPER LIMIT	35414	17.723	31320	21.902	29692	24.235
	LOWER LIMIT	8853.5	16.723	7830	20.902	7423	23.235
	EPA SAMPLE NO.						
01	PB169712BL	16554	17.22	13474	21.40	12150	23.73

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID : SSTDCCC0.4 Date Analyzed: 09/25/2025

Lab File ID: BN037883.D Time Analyzed: 11:31

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	5686	7.818	16943	10.63	8938	14.47
	UPPER LIMIT	11372	8.318	33886	11.126	17876	14.973
	LOWER LIMIT	2843	7.318	8471.5	10.126	4469	13.973
	EPA SAMPLE NO.						
01	PB169712BS	7082	7.82	19552	10.63	9660	14.47
02	PB169712BSD	6836	7.83	18512	10.63	8848	14.47

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3097

Client ID: SSTDCCC0.4 Date Analyzed: 09/25/2025

Lab File ID: BN037883.D Time Analyzed: 11:31

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	18224	17.223	15951	21.402	15181	23.73
	UPPER LIMIT	36448	17.723	31902	21.902	30362	24.23
	LOWER LIMIT	9112	16.723	7975.5	20.902	7590.5	23.23
	EPA SAMPLE NO.						
01	PB169712BS	19122	17.22	15460	21.40	13073	23.73
02	PB169712BSD	16966	17.22	11857	21.40	9036	23.74

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Alliance
TECHNICAL GROUP

SAMPLE DATA

Raw Data: **BN037771.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037771.D	1	09/15/25 12:00	09/18/25 10:00	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		71%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		94%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8060	7.833				
1146-65-2	Naphthalene-d8	22000	10.637				
15067-26-2	Acenaphthene-d10	10100	14.484				
1517-22-2	Phenanthrene-d10	18200	17.235				
1719-03-5	Chrysene-d12	14800	21.411				
1520-96-3	Perylene-d12	15100	23.747				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037771.D
Acq On : 18 Sep 2025 10:00
Operator : RC/JU
Sample : Q3097-01
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

Quant Time: Sep 18 10:46:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

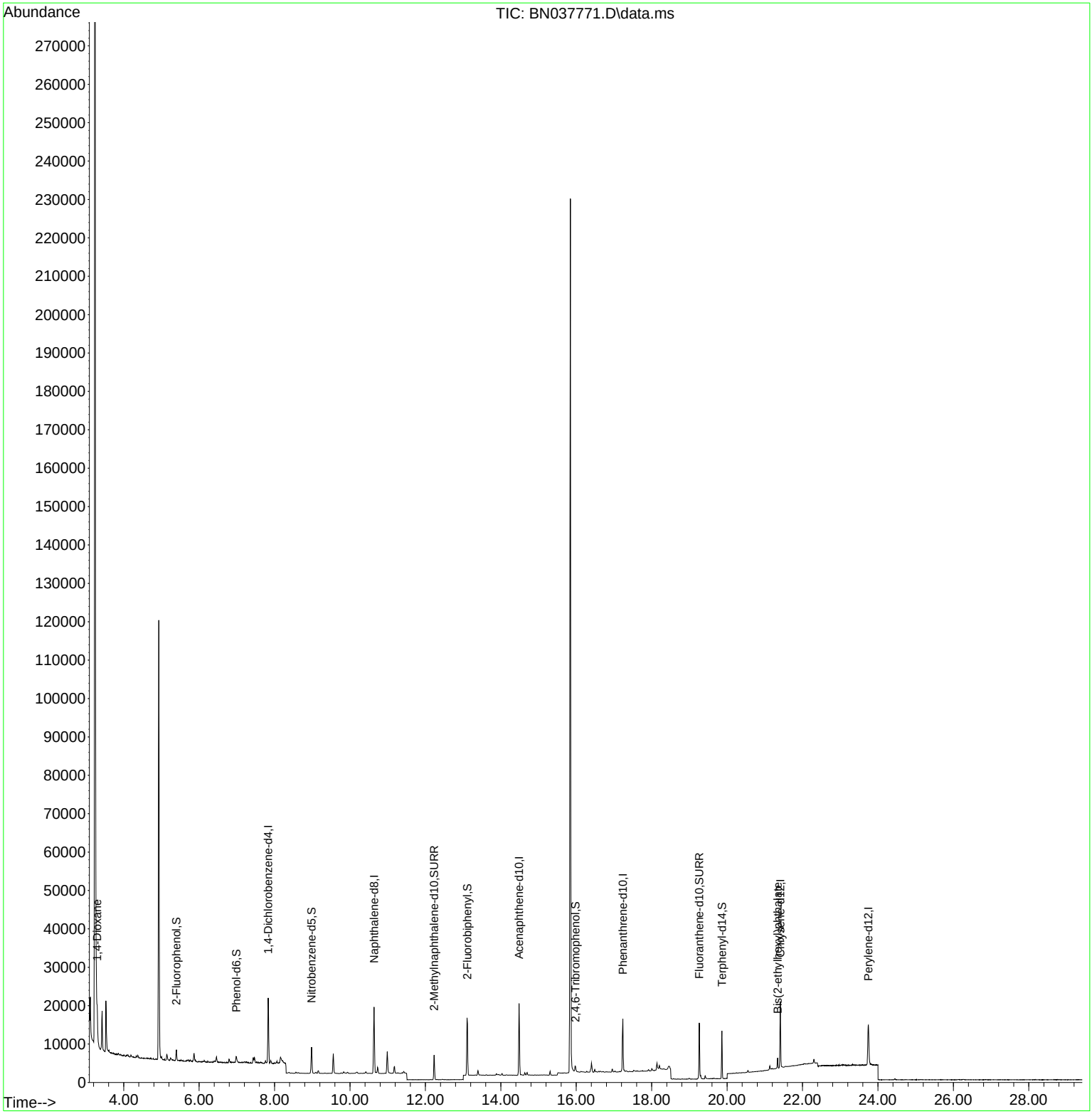
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	8062	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	22030	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	10128	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	18234	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	14812	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	15070	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2208	0.119	ng	0.00
5) Phenol-d6	6.988	99	1567	0.065	ng	0.00
8) Nitrobenzene-d5	8.982	82	5146	0.319	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	8314	0.285	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	990	0.375	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	13153	0.311	ng	0.00
27) Fluoranthene-d10	19.262	212	15813	0.345	ng	0.00
31) Terphenyl-d14	19.861	244	11370	0.378	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	3093	0.368	ng	# 88
34) Bis(2-ethylhexyl)phtha...	21.340	149	2775	0.181	ng	97

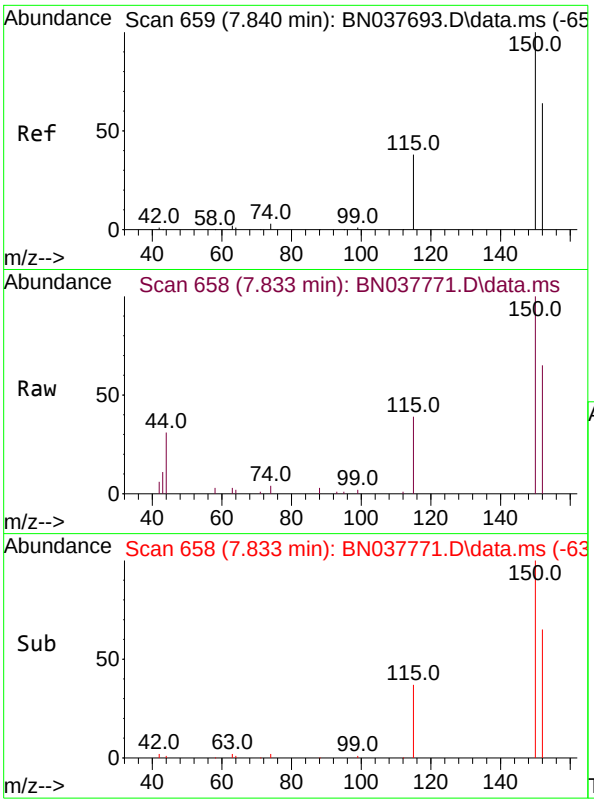
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037771.D
Acq On : 18 Sep 2025 10:00
Operator : RC/JU
Sample : Q3097-01
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

Quant Time: Sep 18 10:46:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



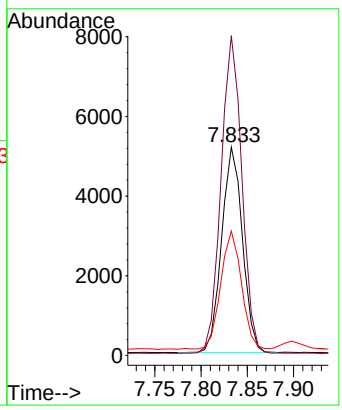


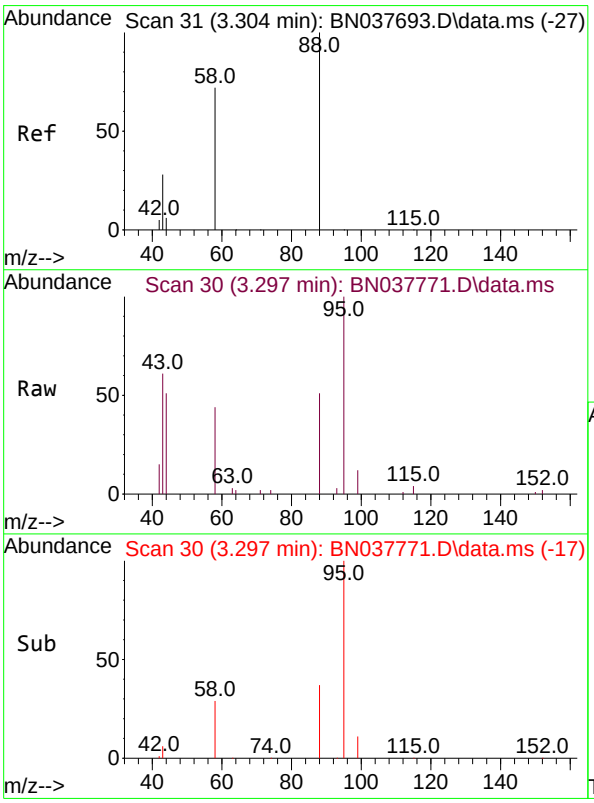
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

Tgt Ion:152 Resp: 8062

Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.5	186.7
115	59.8	49.2	73.8

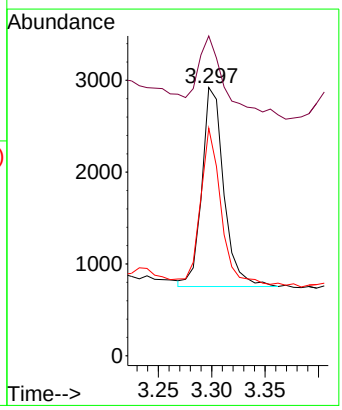


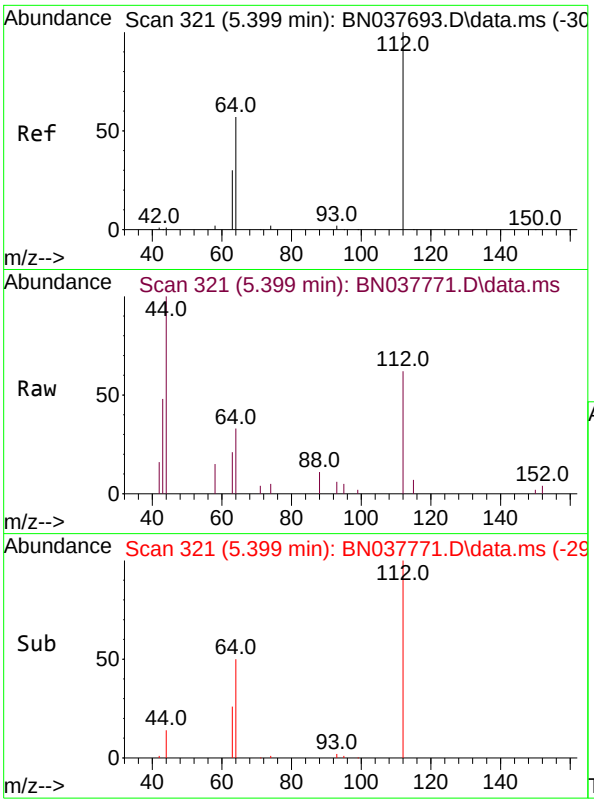


#2
1,4-Dioxane
Concen: 0.368 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Tgt Ion: 88 Resp: 3093

Ion	Ratio	Lower	Upper
88	100		
43	53.2	26.8	40.2#
58	75.5	61.9	92.9



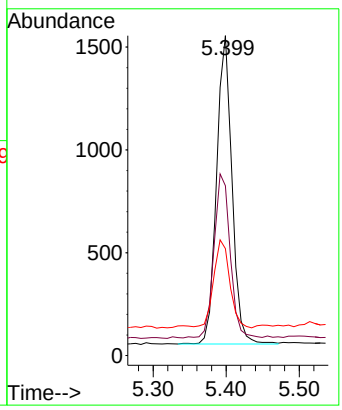


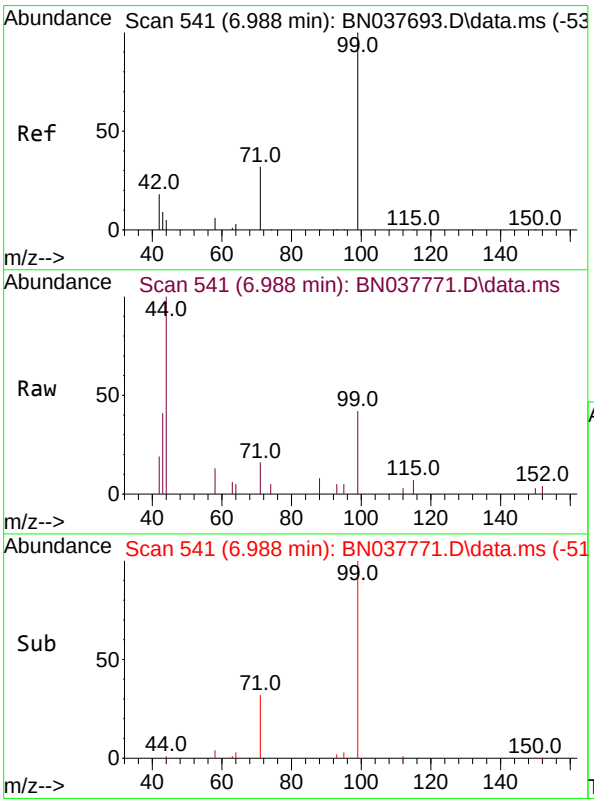
#4
2-Fluorophenol
Concen: 0.119 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

Tgt Ion:112 Resp: 2208

Ion	Ratio	Lower	Upper
112	100		
64	55.4	44.9	67.3
63	29.6	24.7	37.1

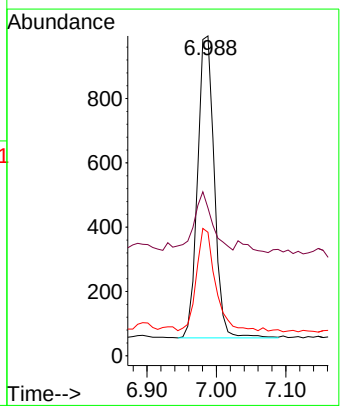


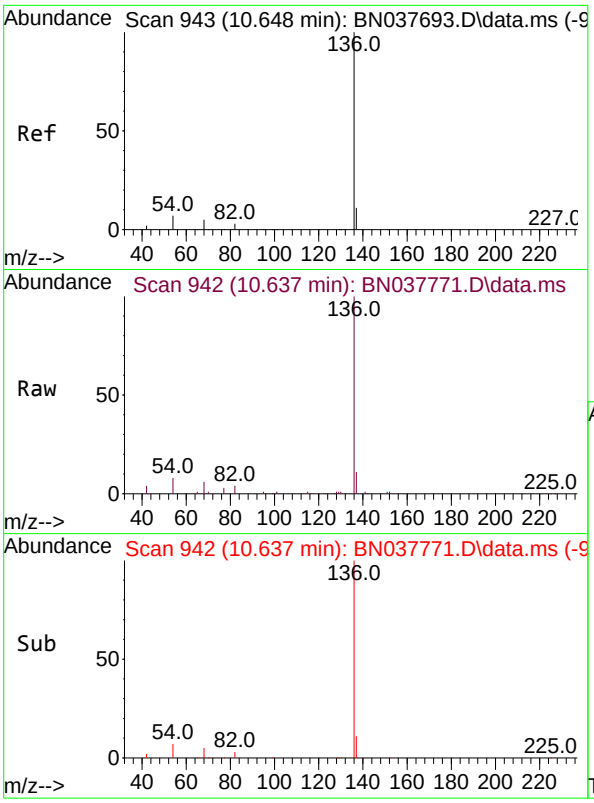


#5
Phenol-d6
Concen: 0.065 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Tgt Ion: 99 Resp: 1567

Ion	Ratio	Lower	Upper
99	100		
42	20.1	16.6	24.8
71	38.0	26.7	40.1



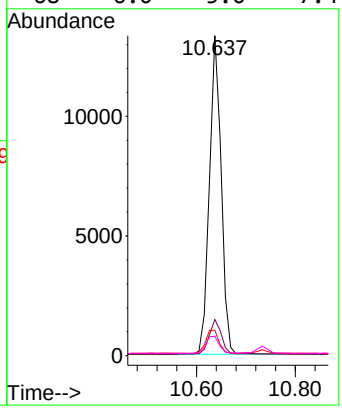


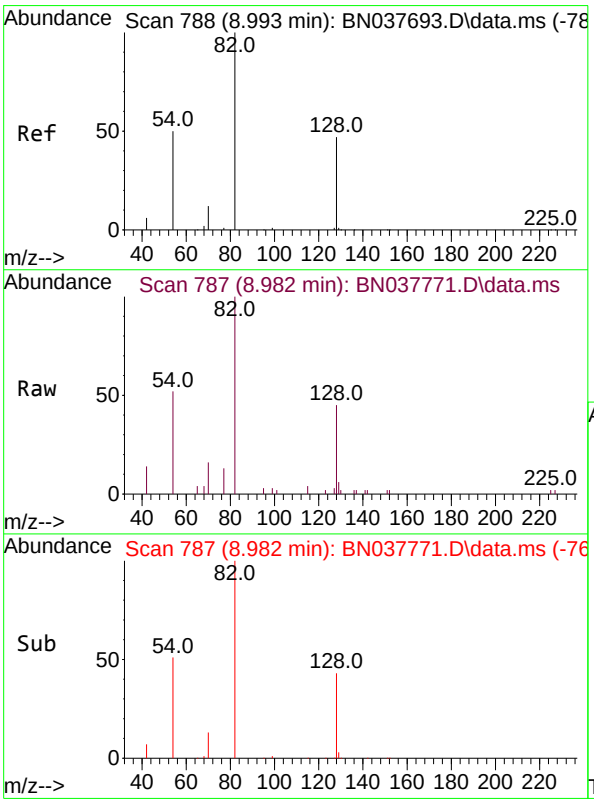
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

Tgt Ion:136 Resp: 22030

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	7.9	6.3	9.5
68	6.0	5.0	7.4

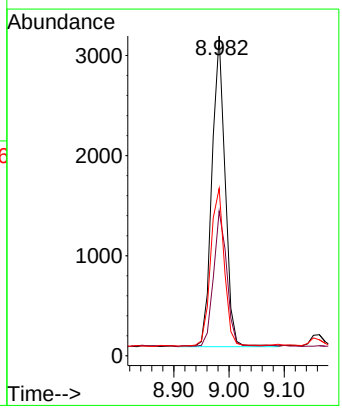


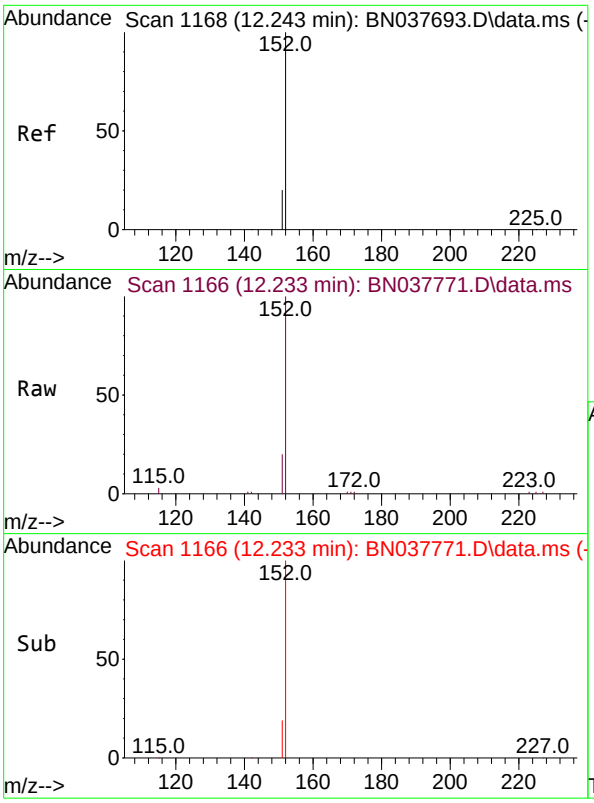


#8
Nitrobenzene-d5
Concen: 0.319 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Tgt Ion: 82 Resp: 5146

Ion	Ratio	Lower	Upper
82	100		
128	45.3	38.3	57.5
54	52.3	41.4	62.2



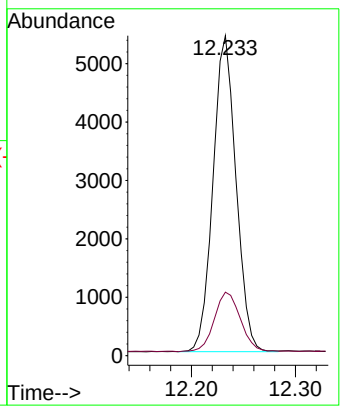


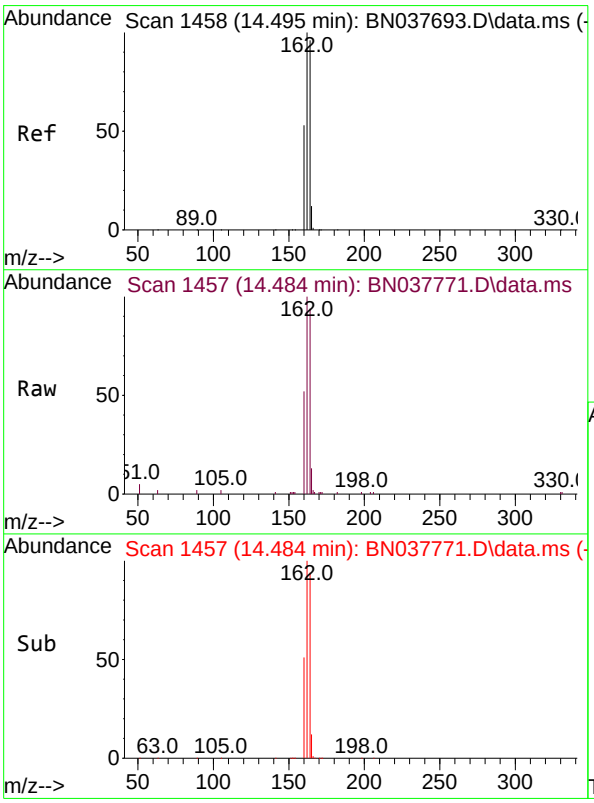
#11
2-Methylnaphthalene-d10
Concen: 0.285 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

Tgt Ion:152 Resp: 8314

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.0	25.6

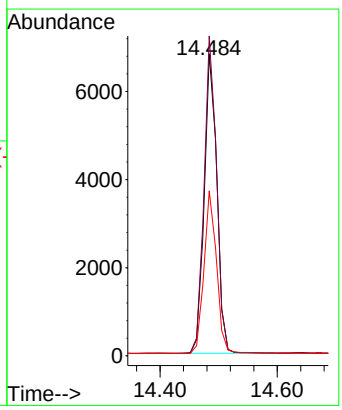


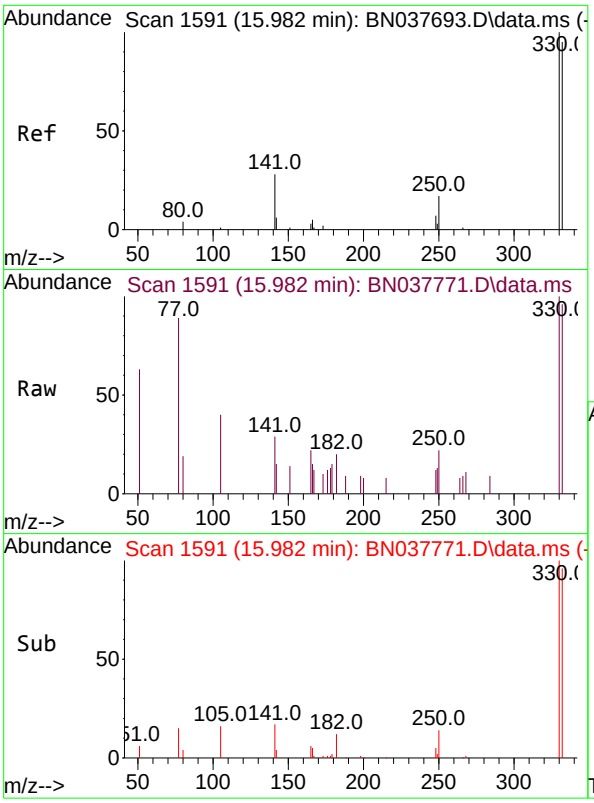


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Tgt Ion:164 Resp: 10128

Ion	Ratio	Lower	Upper
164	100		
162	105.9	83.1	124.7
160	54.7	44.3	66.5



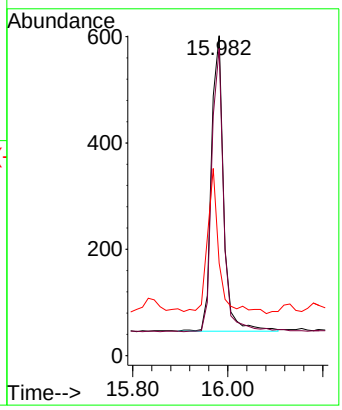


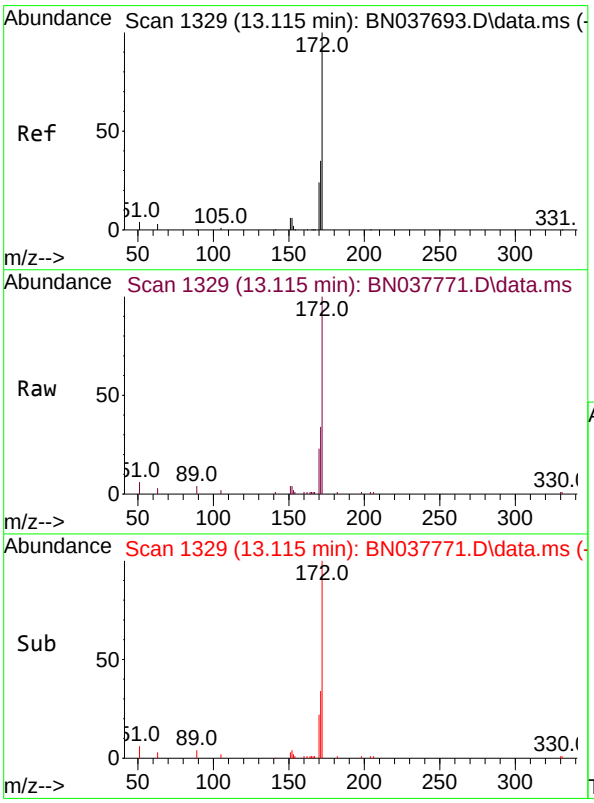
#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

Tgt Ion:330 Resp: 990

Ion	Ratio	Lower	Upper
330	100		
332	93.7	75.3	112.9
141	47.3	35.0	52.4

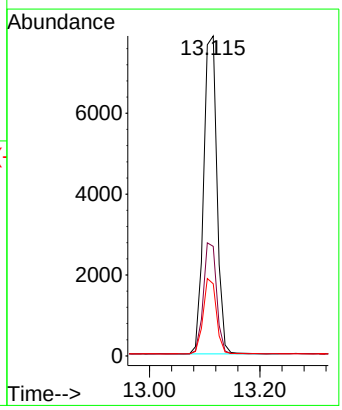


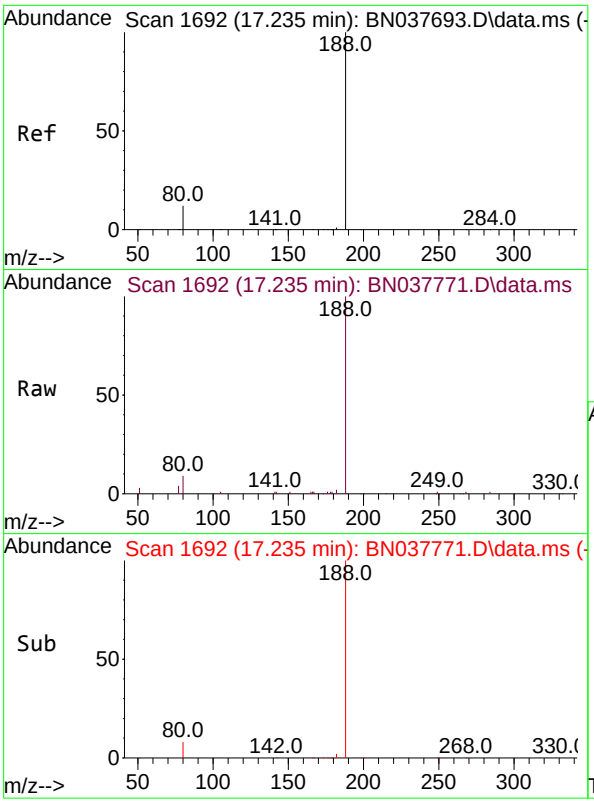


#15
2-Fluorobiphenyl
Concen: 0.311 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Tgt Ion:172 Resp: 13153

Ion	Ratio	Lower	Upper
172	100		
171	34.2	28.6	43.0
170	22.5	19.8	29.8



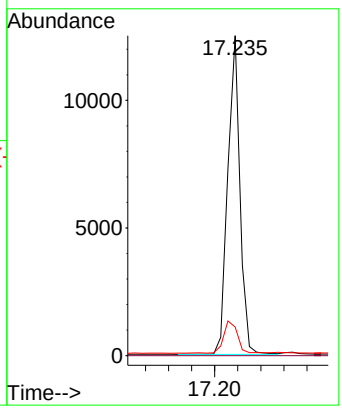


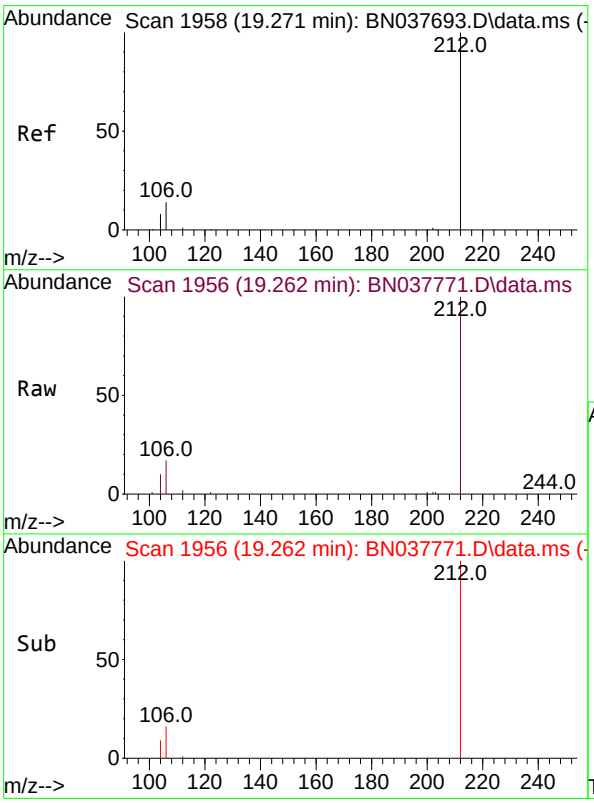
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

Tgt Ion:188 Resp: 18234

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.9	10.6	15.8#

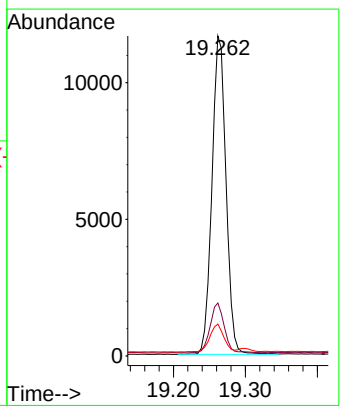


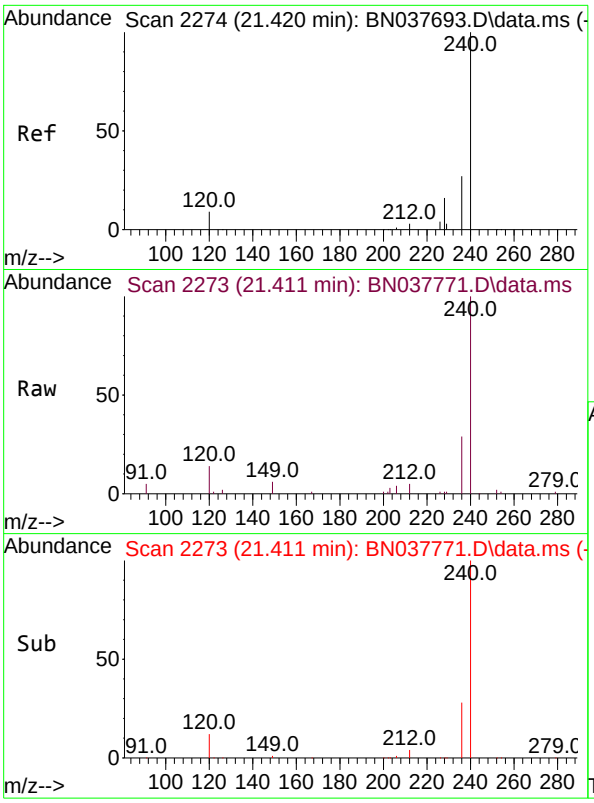


#27
Fluoranthene-d10
Concen: 0.345 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Tgt Ion:212 Resp: 15813

Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.2	18.2
104	8.8	6.9	10.3



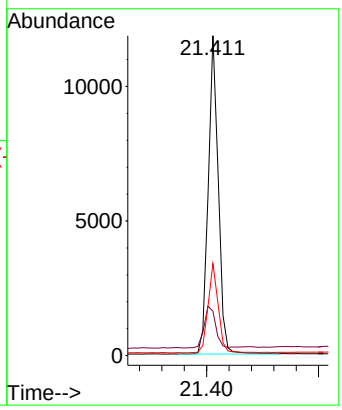


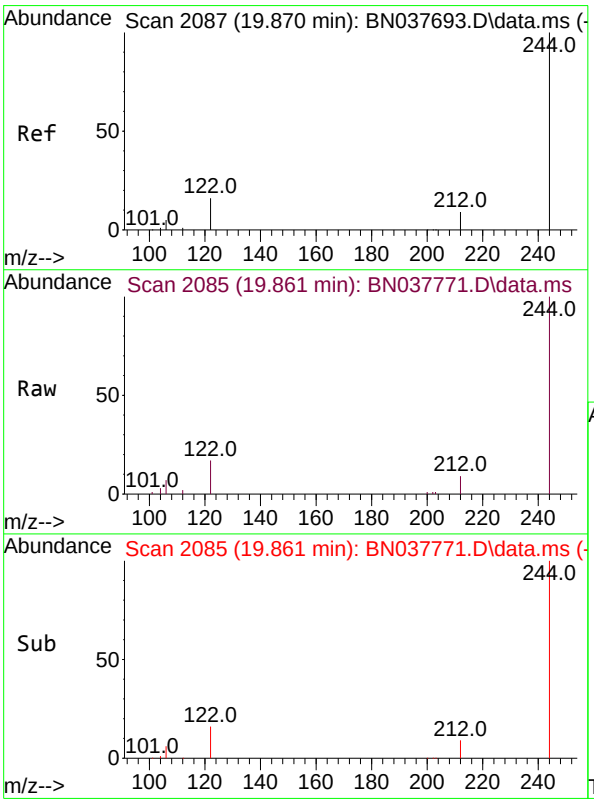
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

Tgt Ion:240 Resp: 14812

Ion	Ratio	Lower	Upper
240	100		
120	13.9	9.2	13.8#
236	28.8	22.6	33.8

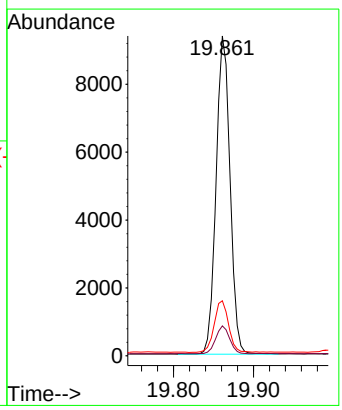


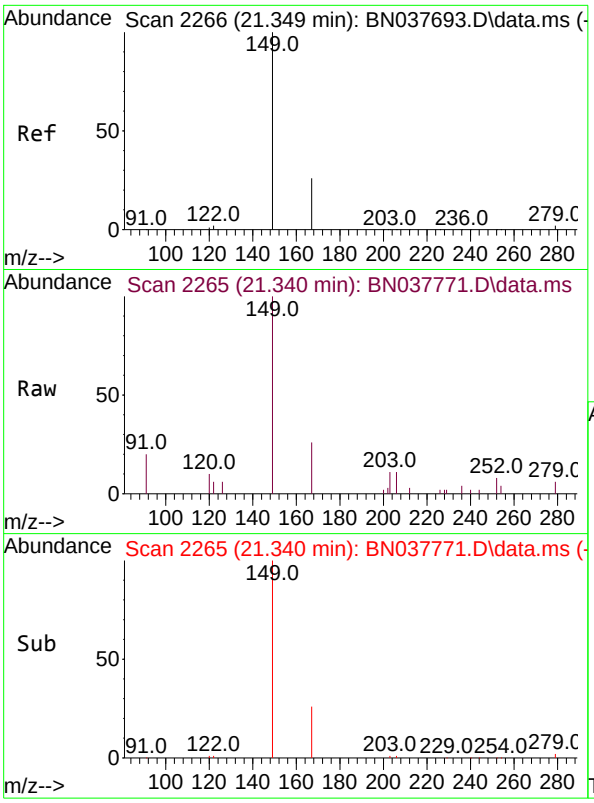


#31
Terphenyl-d14
Concen: 0.378 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Tgt Ion:244 Resp: 11370

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	17.2	13.2	19.8



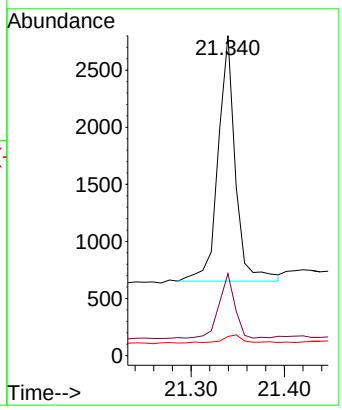


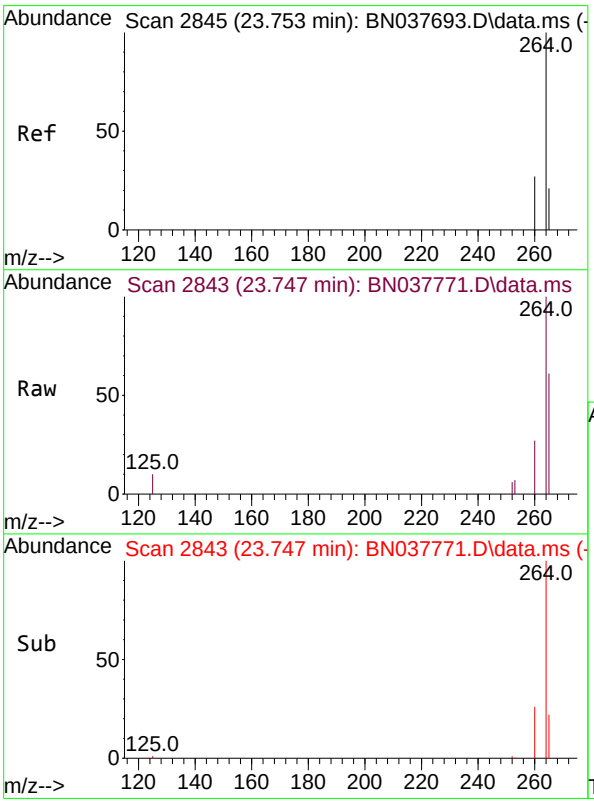
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.181 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

Tgt Ion:149 Resp: 2775

Ion	Ratio	Lower	Upper
149	100		
167	24.0	20.8	31.2
279	3.9	3.3	4.9

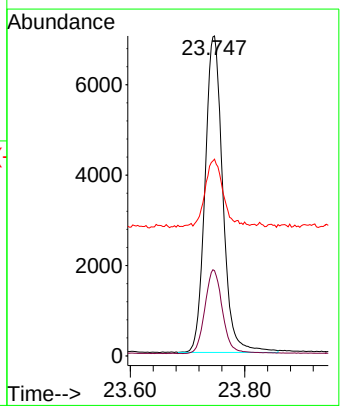




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Tgt Ion:264 Resp: 15070

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.8	32.8
265	61.5	39.4	59.2#



Raw Data: **BN037779.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D1-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037779.D	1	09/15/25 12:00	09/18/25 16:23	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.70		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.25		30 - 150		63%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		77%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		72%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6930	7.833				
1146-65-2	Naphthalene-d8	18200	10.637				
15067-26-2	Acenaphthene-d10	8170	14.484				
1517-22-2	Phenanthrene-d10	16000	17.235				
1719-03-5	Chrysene-d12	14300	21.411				
1520-96-3	Perylene-d12	14700	23.747				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037779.D
Acq On : 18 Sep 2025 16:23
Operator : RC/JU
Sample : Q3097-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

Quant Time: Sep 18 16:52:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

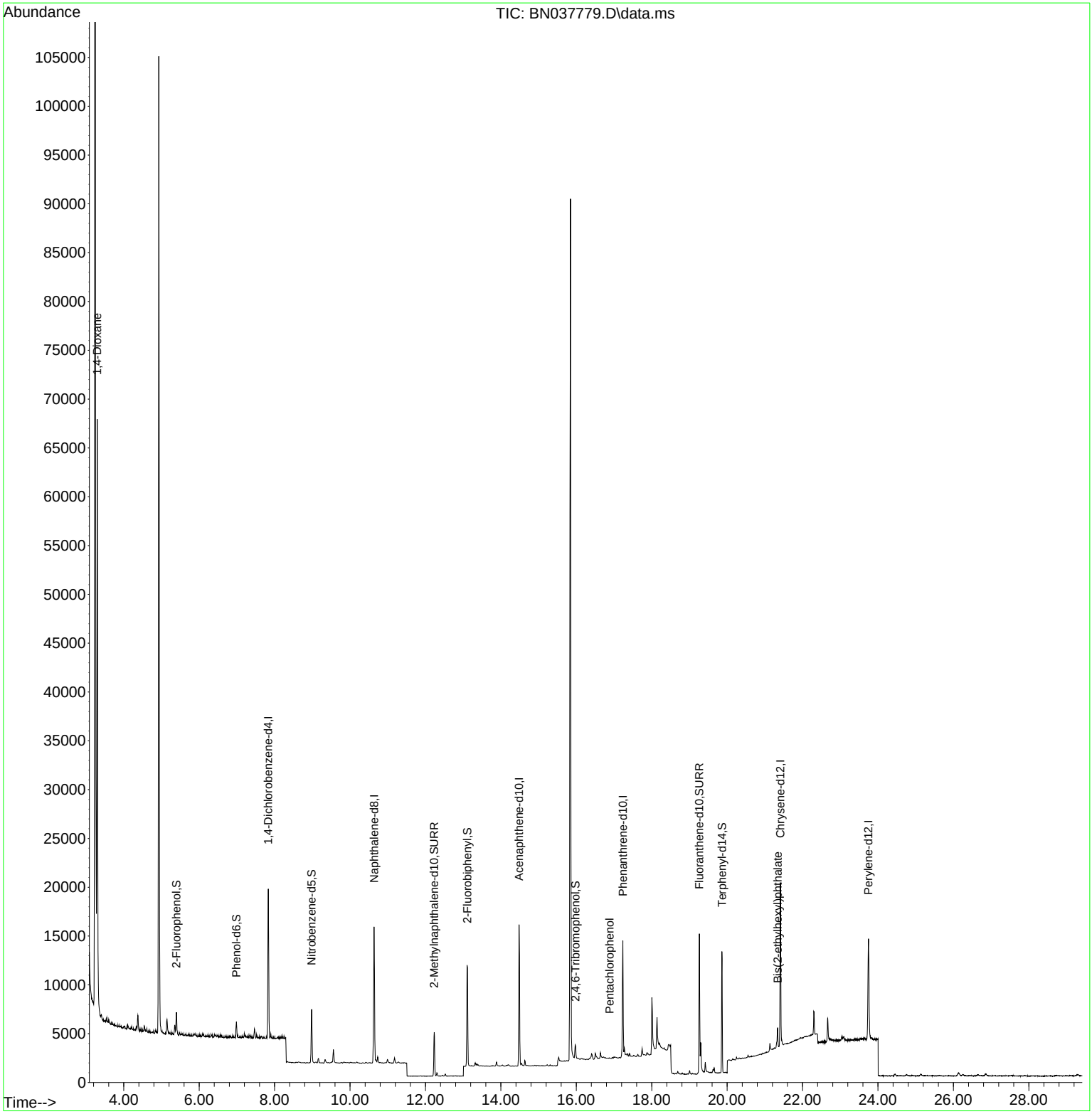
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6931	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	18212	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8174	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	15954	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	14259	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	14695	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1888	0.119	ng	0.00
5) Phenol-d6	6.988	99	1409	0.068	ng	0.00
8) Nitrobenzene-d5	8.982	82	4127	0.310	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	6072	0.252	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	906	0.425	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	9785	0.286	ng	0.00
27) Fluoranthene-d10	19.262	212	15503	0.387	ng	0.00
31) Terphenyl-d14	19.861	244	11360	0.393	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	33742	4.674	ng	95
24) Pentachlorophenol	16.888	266	70	0.020	ng	# 83
34) Bis(2-ethylhexyl)phtha...	21.339	149	2684	0.182	ng	99

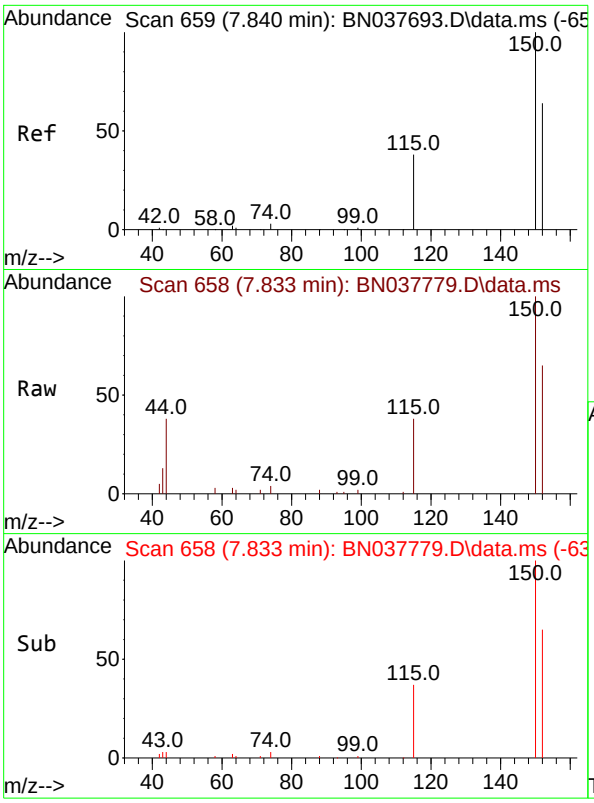
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037779.D
Acq On : 18 Sep 2025 16:23
Operator : RC/JU
Sample : Q3097-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

Quant Time: Sep 18 16:52:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



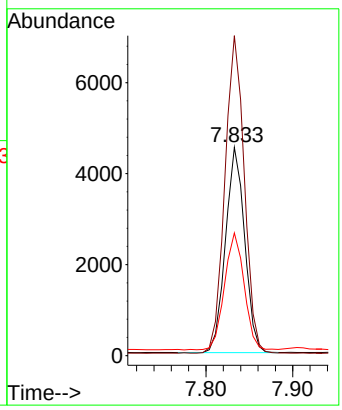


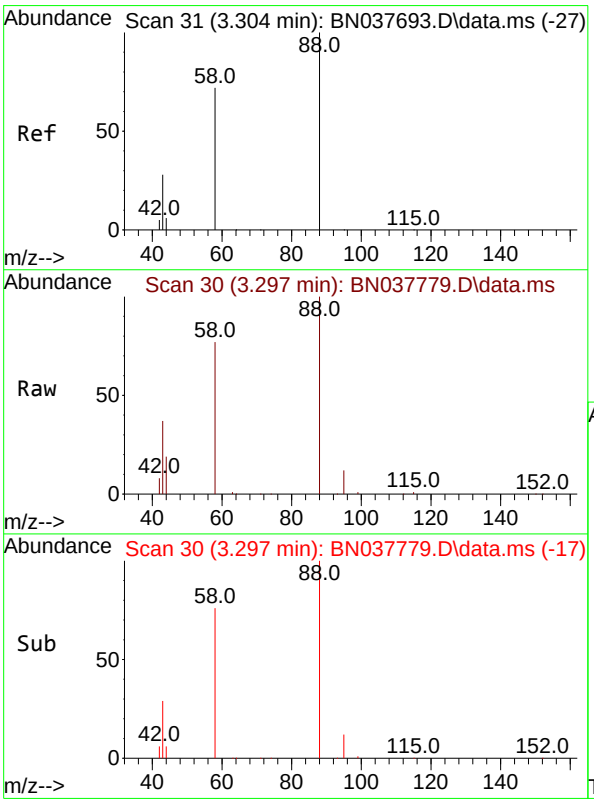
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

Tgt Ion:152 Resp: 6931

Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.5	186.7
115	58.9	49.2	73.8

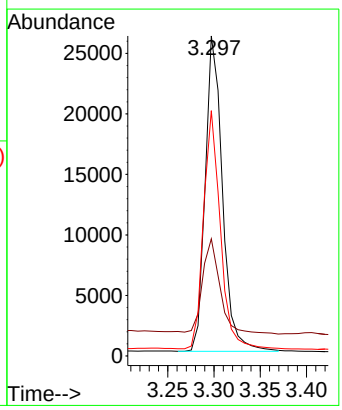


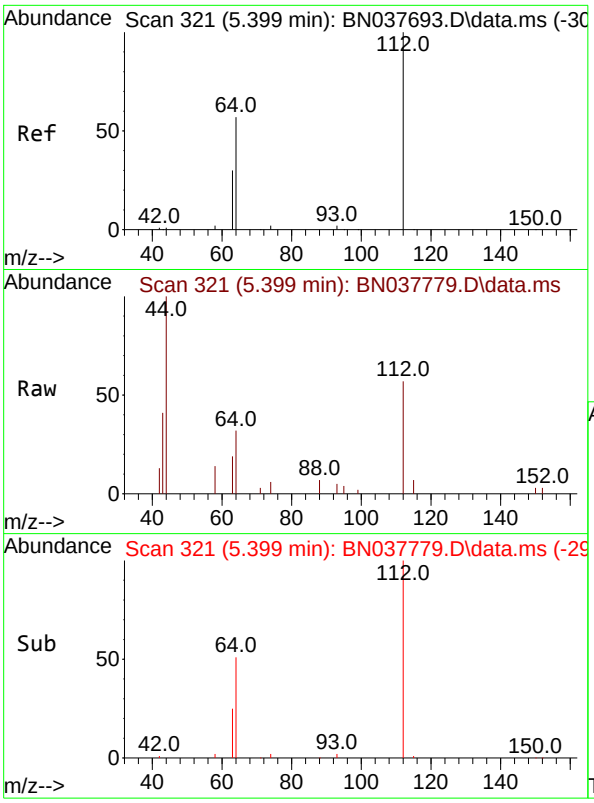


#2
1,4-Dioxane
Concen: 4.674 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Tgt Ion: 88 Resp: 33742

Ion	Ratio	Lower	Upper
88	100		
43	30.8	26.8	40.2
58	73.2	61.9	92.9



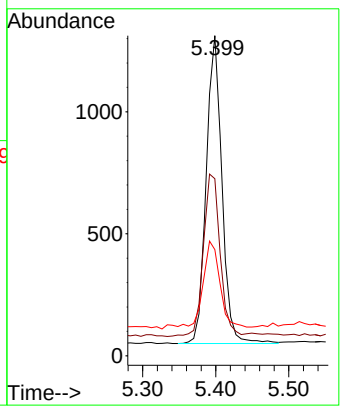


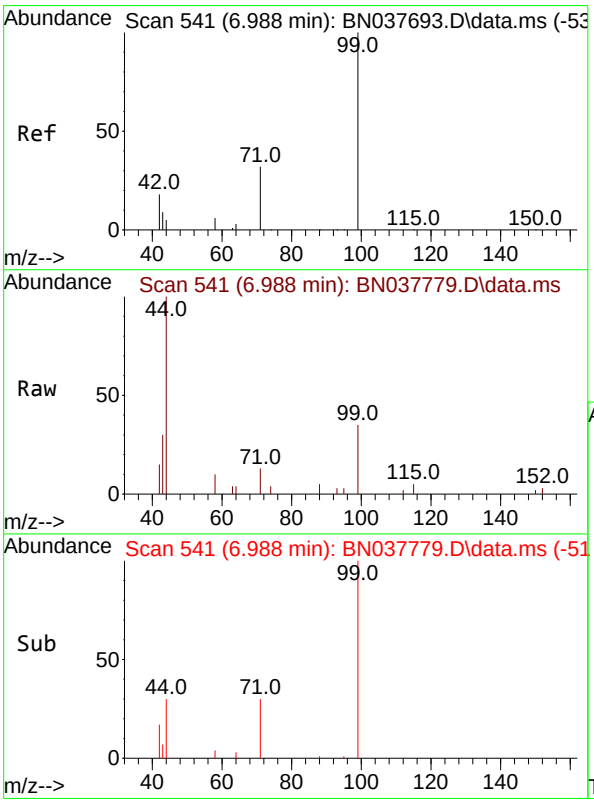
#4
2-Fluorophenol
Concen: 0.119 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

Tgt Ion:112 Resp: 1888

Ion	Ratio	Lower	Upper
112	100		
64	56.3	44.9	67.3
63	29.6	24.7	37.1

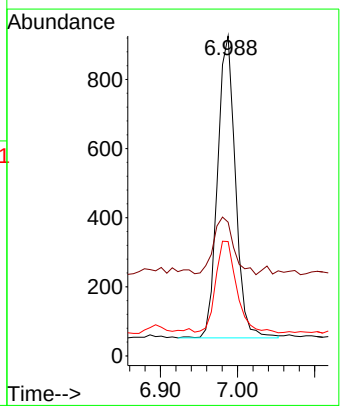


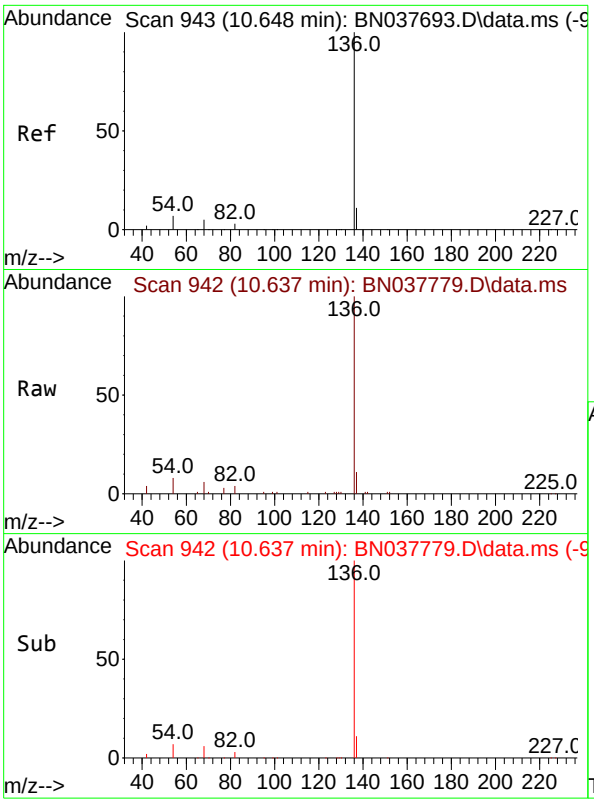


#5
Phenol-d6
Concen: 0.068 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Tgt Ion: 99 Resp: 1409

Ion	Ratio	Lower	Upper
99	100		
42	21.4	16.6	24.8
71	35.3	26.7	40.1



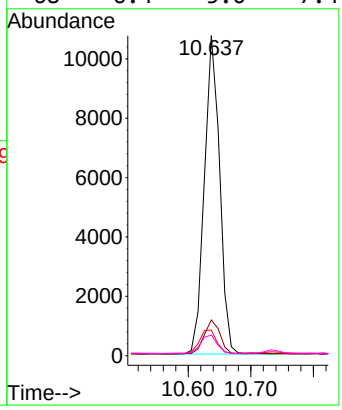


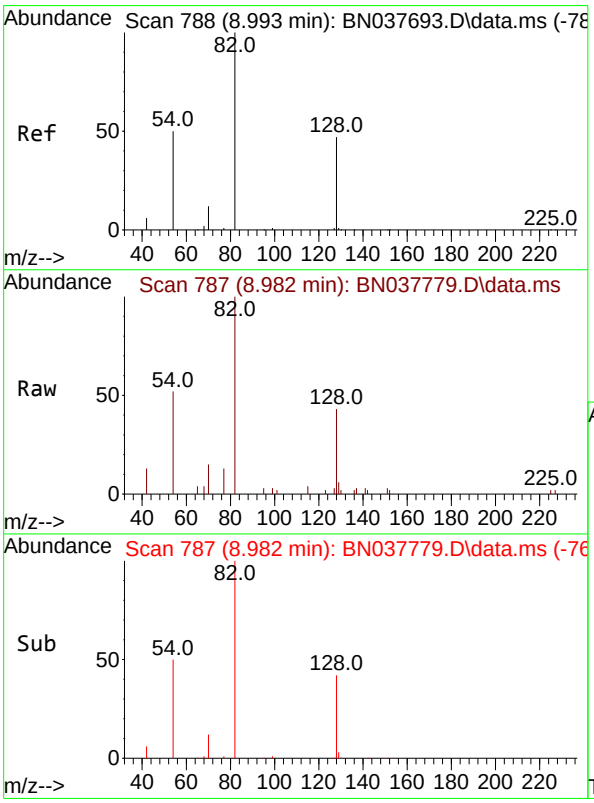
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

Tgt Ion:136 Resp: 18212

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	8.0	6.3	9.5
68	6.4	5.0	7.4

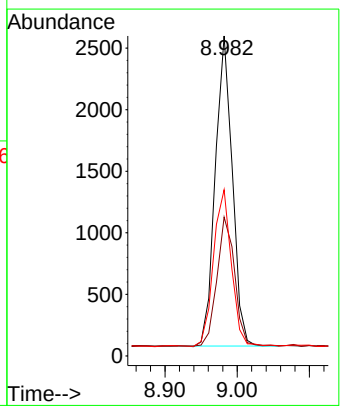


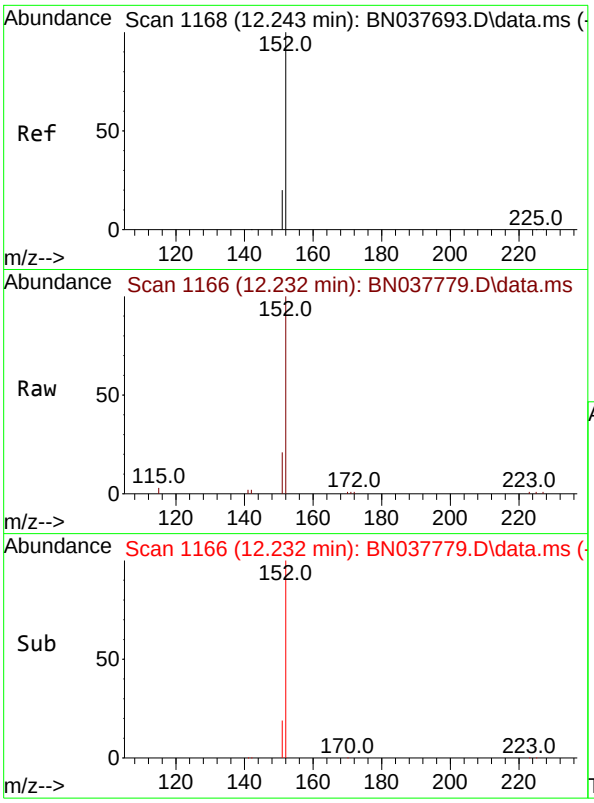


#8
Nitrobenzene-d5
Concen: 0.310 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Tgt Ion: 82 Resp: 4127

Ion	Ratio	Lower	Upper
82	100		
128	43.4	38.3	57.5
54	51.9	41.4	62.2



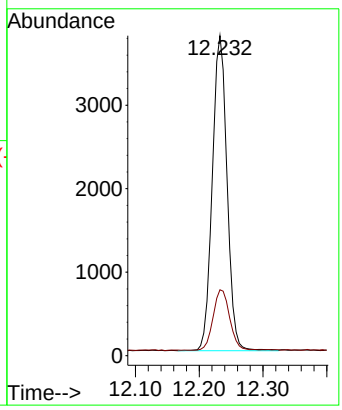


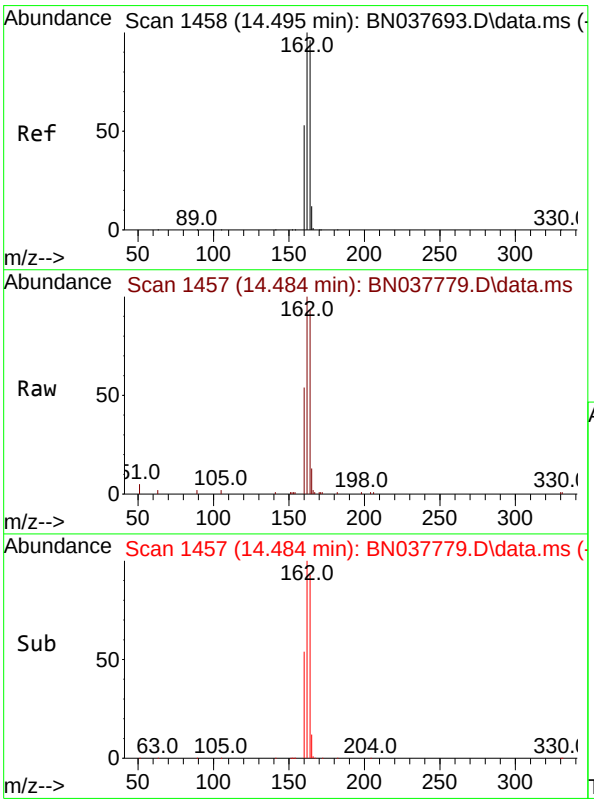
#11
2-Methylnaphthalene-d10
Concen: 0.252 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

Tgt Ion:152 Resp: 6072

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.0	25.6

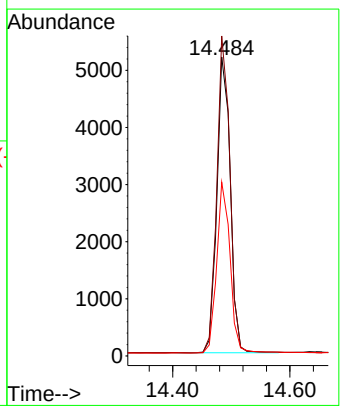


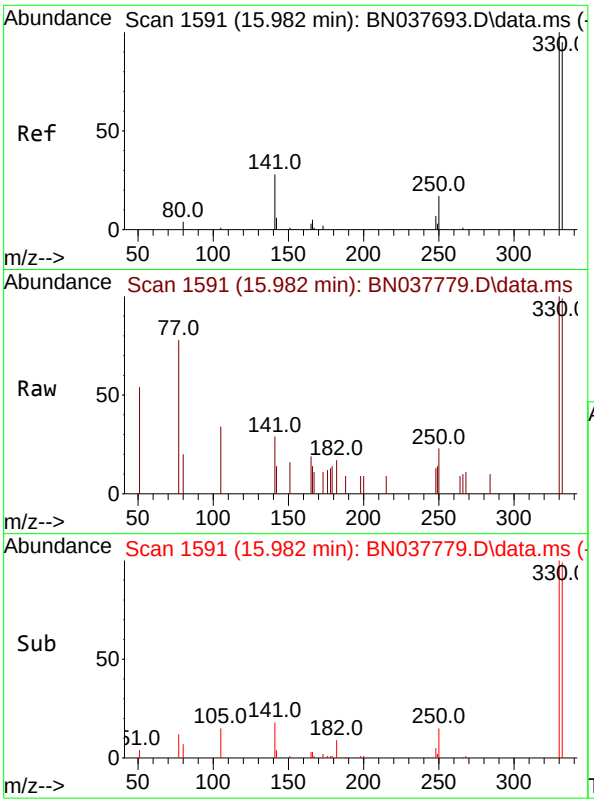


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Tgt Ion:164 Resp: 8174

Ion	Ratio	Lower	Upper
164	100		
162	107.0	83.1	124.7
160	58.1	44.3	66.5



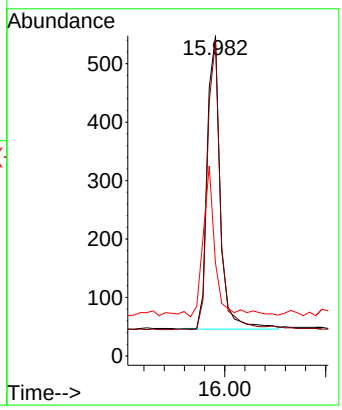


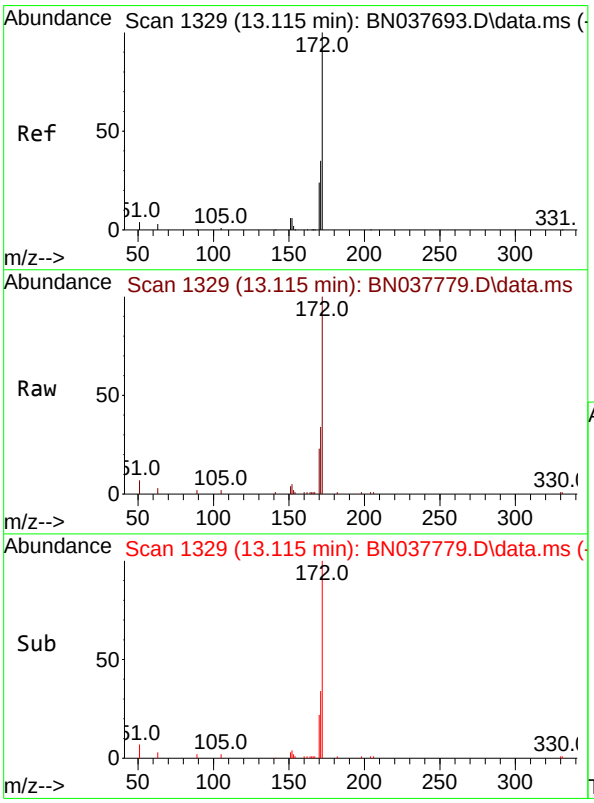
#14
2,4,6-Tribromophenol
Concen: 0.425 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

Tgt Ion:330 Resp: 906

Ion	Ratio	Lower	Upper
330	100		
332	97.8	75.3	112.9
141	46.5	35.0	52.4

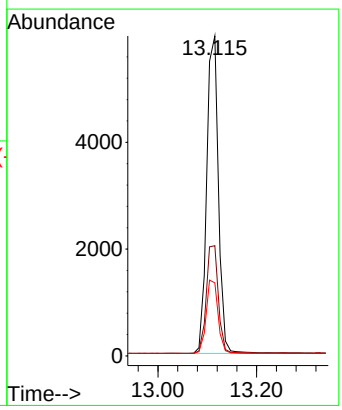


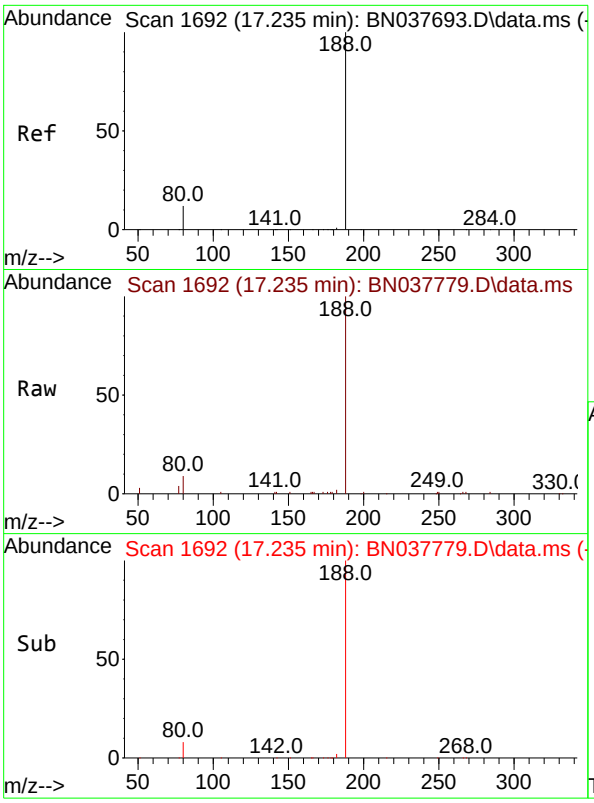


#15
2-Fluorobiphenyl
Concen: 0.286 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Tgt Ion:172 Resp: 9785

Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.6	43.0
170	22.9	19.8	29.8



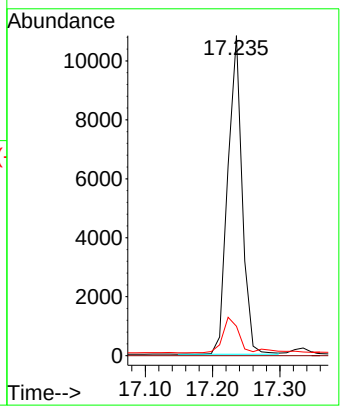


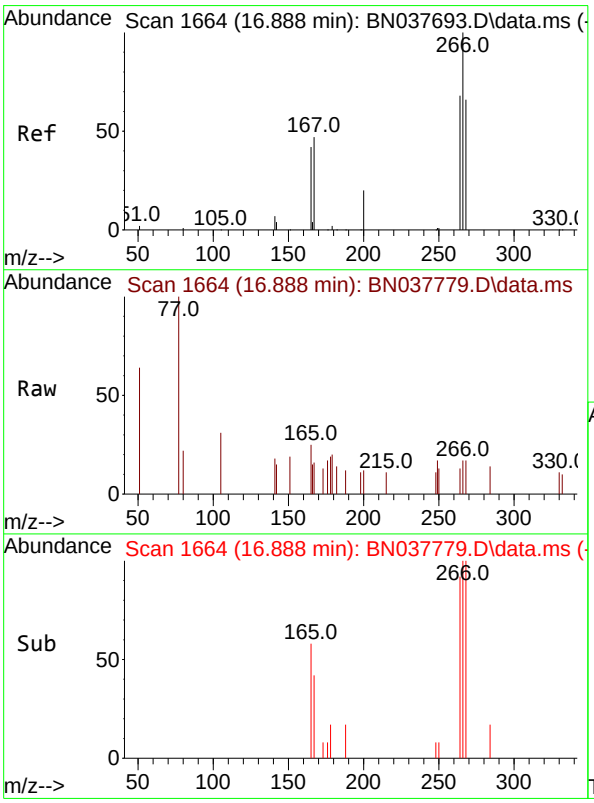
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

Tgt Ion:188 Resp: 15954

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	10.6	15.8#

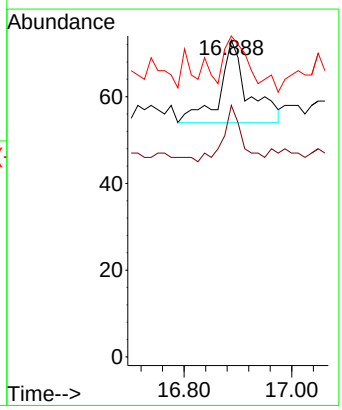


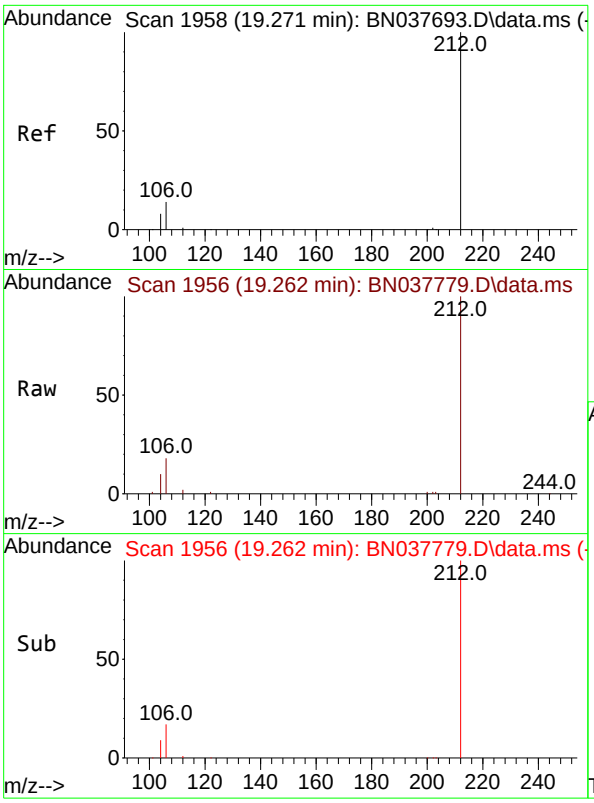


#24
Pentachlorophenol
Concen: 0.020 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Tgt Ion:266 Resp: 70

Ion	Ratio	Lower	Upper
266	100		
264	44.3	51.6	77.4#
268	60.0	53.2	79.8



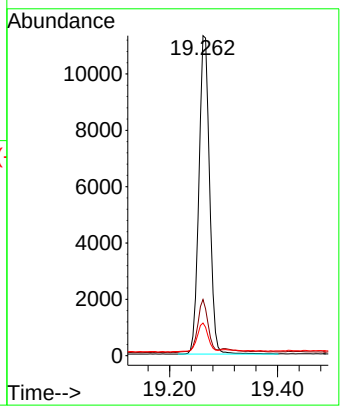


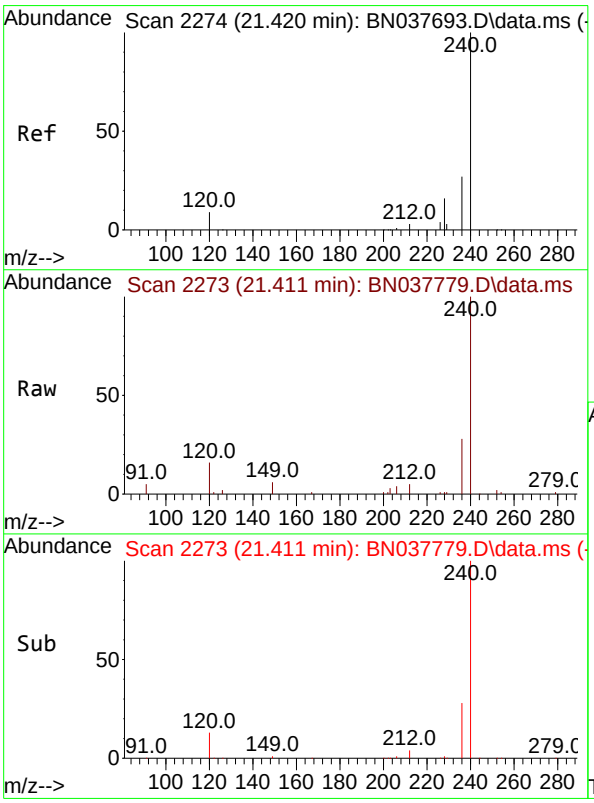
#27
Fluoranthene-d10
Concen: 0.387 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

Tgt Ion:212 Resp: 15503

Ion	Ratio	Lower	Upper
212	100		
106	16.3	12.2	18.2
104	9.5	6.9	10.3

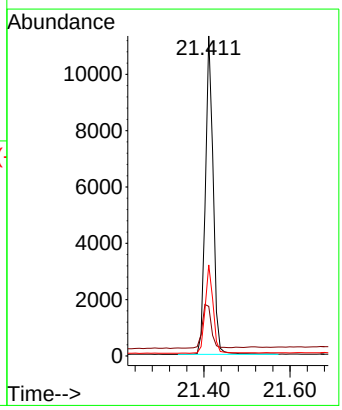


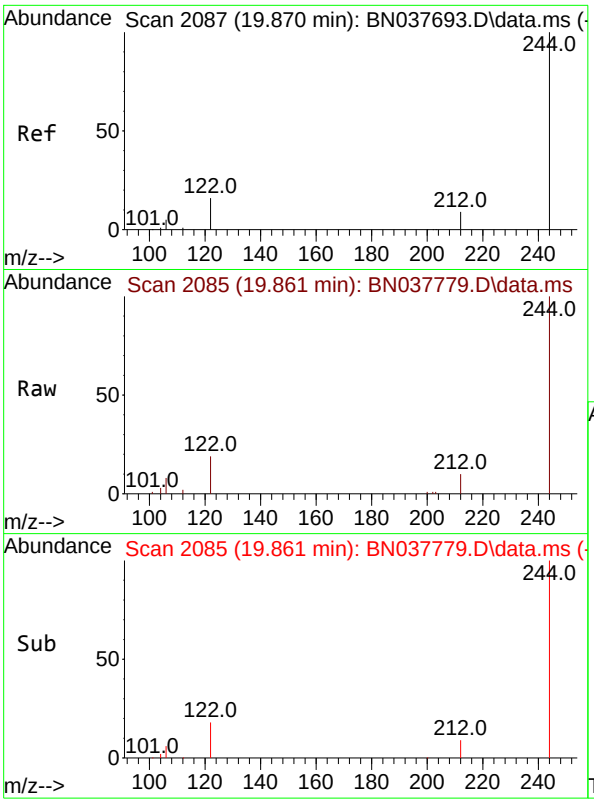


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Tgt Ion:240 Resp: 14259

Ion	Ratio	Lower	Upper
240	100		
120	15.5	9.2	13.8#
236	28.4	22.6	33.8



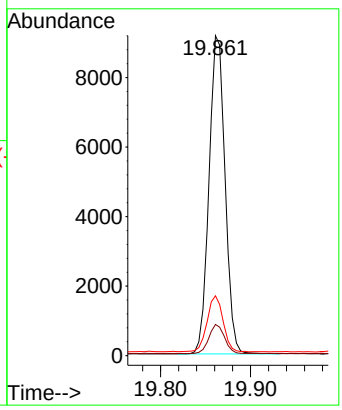


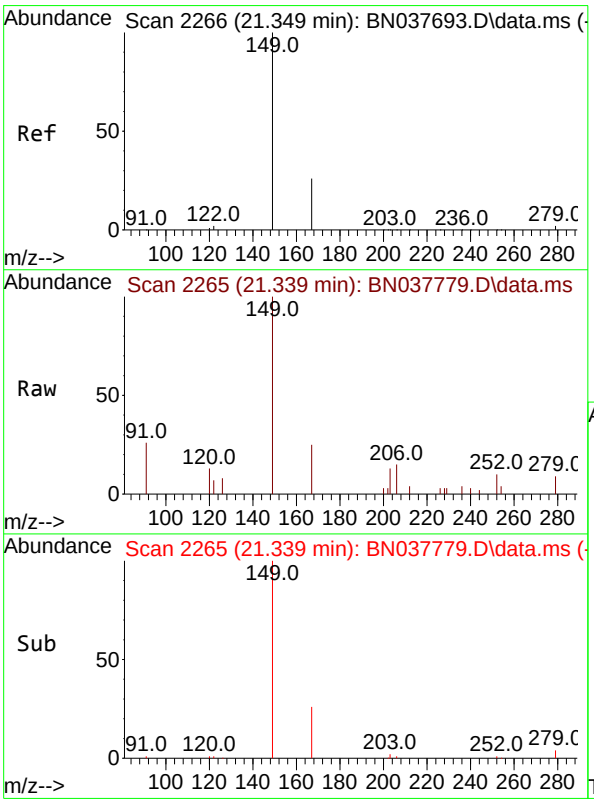
#31
Terphenyl-d14
Concen: 0.393 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

Tgt Ion:244 Resp: 11360

Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.5	11.3
122	18.7	13.2	19.8

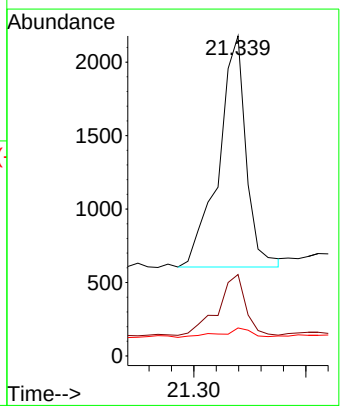


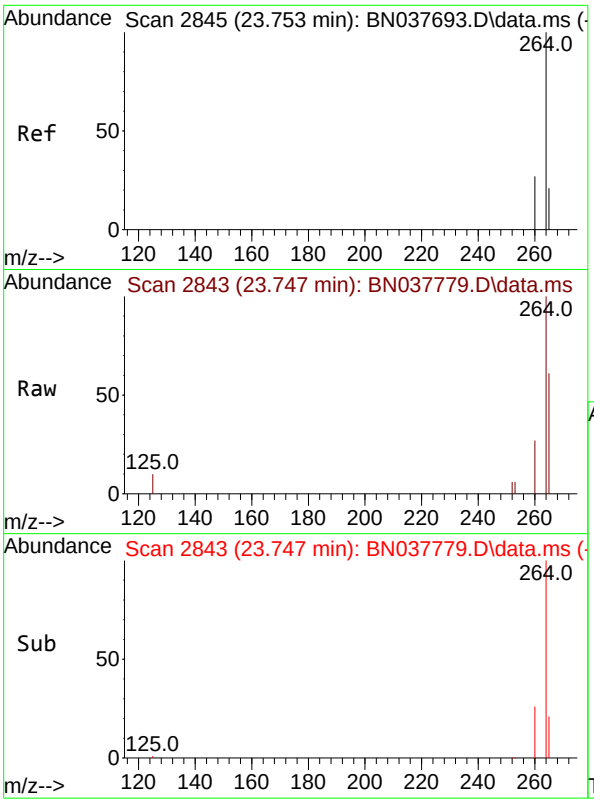


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.182 ng
RT: 21.339 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Tgt Ion:149 Resp: 2684

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.8	31.2
279	4.4	3.3	4.9



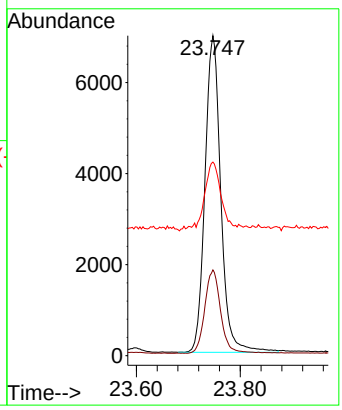


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

Tgt Ion:264 Resp: 14695

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.8	32.8
265	60.5	39.4	59.2#



Raw Data: **BN037780.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D3-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037780.D	1	09/15/25 12:00	09/18/25 17:00	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7250	7.833				
1146-65-2	Naphthalene-d8	19500	10.637				
15067-26-2	Acenaphthene-d10	8750	14.484				
1517-22-2	Phenanthrene-d10	15800	17.235				
1719-03-5	Chrysene-d12	13100	21.411				
1520-96-3	Perylene-d12	12700	23.747				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **BN037780.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037780.D
Acq On : 18 Sep 2025 17:00
Operator : RC/JU
Sample : Q3097-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

Quant Time: Sep 18 17:38:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

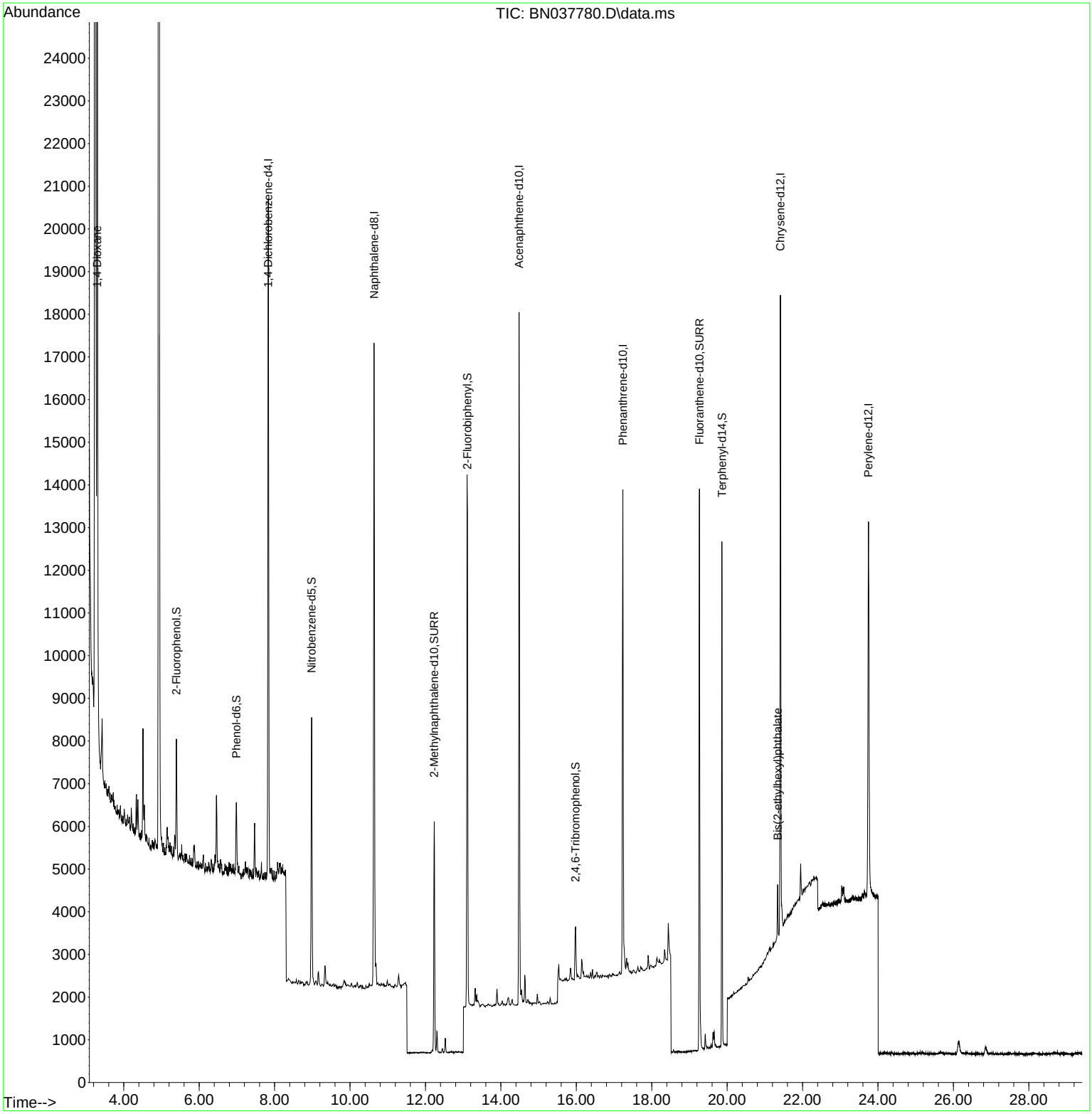
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7245	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19496	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8745	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	15845	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	13110	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	12712	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2265	0.136	ng	0.00
5) Phenol-d6	6.988	99	1626	0.075	ng	0.00
8) Nitrobenzene-d5	8.982	82	4800	0.337	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	7198	0.279	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	917	0.402	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	11230	0.307	ng	0.00
27) Fluoranthene-d10	19.266	212	14489	0.364	ng	0.00
31) Terphenyl-d14	19.861	244	10642	0.400	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	15827	2.097	ng	97
34) Bis(2-ethylhexyl)phtha...	21.340	149	1305	0.096	ng #	98

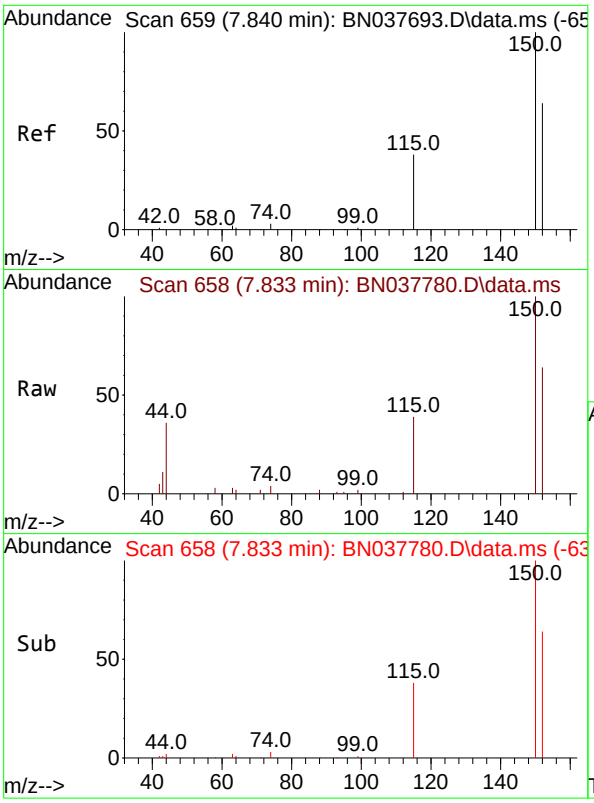
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037780.D
Acq On : 18 Sep 2025 17:00
Operator : RC/JU
Sample : Q3097-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

Quant Time: Sep 18 17:38:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



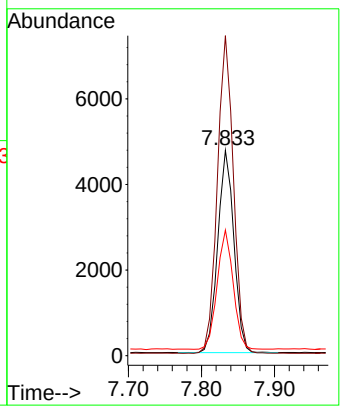


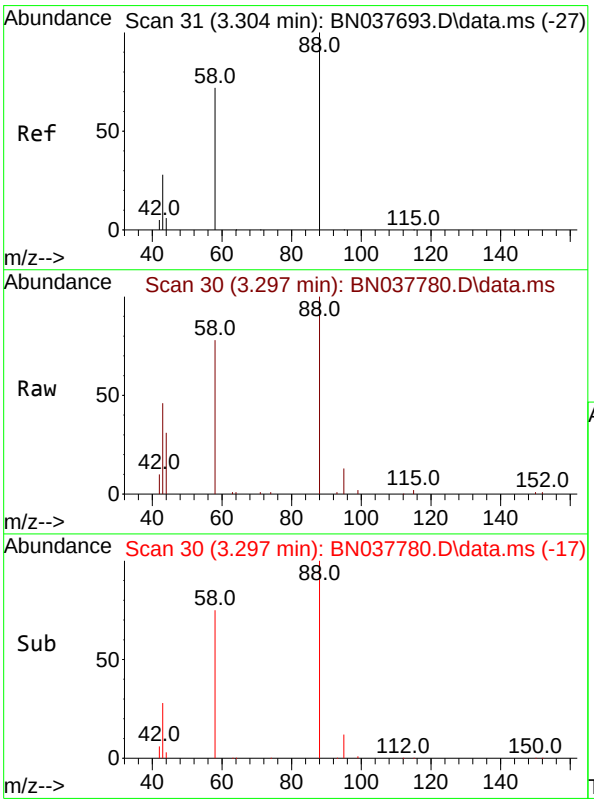
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

Tgt Ion:152 Resp: 7245

Ion	Ratio	Lower	Upper
152	100		
150	155.8	124.5	186.7
115	61.1	49.2	73.8

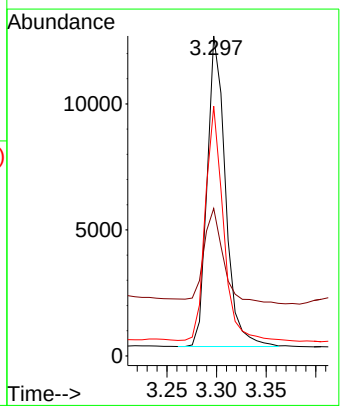


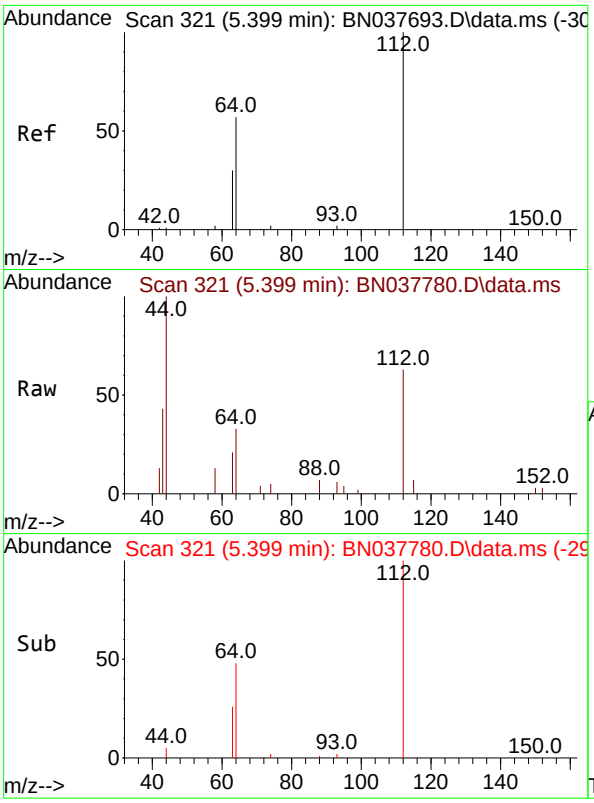


#2
1,4-Dioxane
Concen: 2.097 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Tgt Ion: 88 Resp: 15827

Ion	Ratio	Lower	Upper
88	100		
43	32.9	26.8	40.2
58	73.7	61.9	92.9



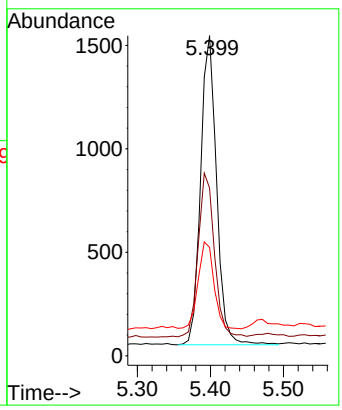


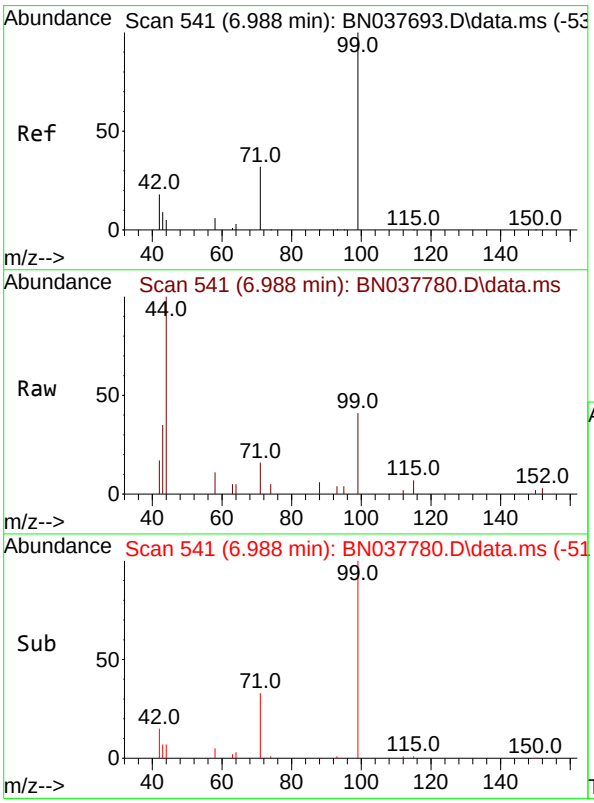
#4
2-Fluorophenol
Concen: 0.136 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

Tgt Ion:112 Resp: 2265

Ion	Ratio	Lower	Upper
112	100		
64	54.1	44.9	67.3
63	27.9	24.7	37.1

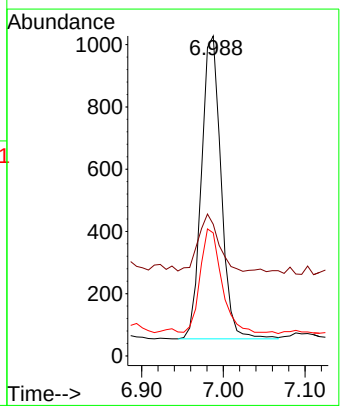


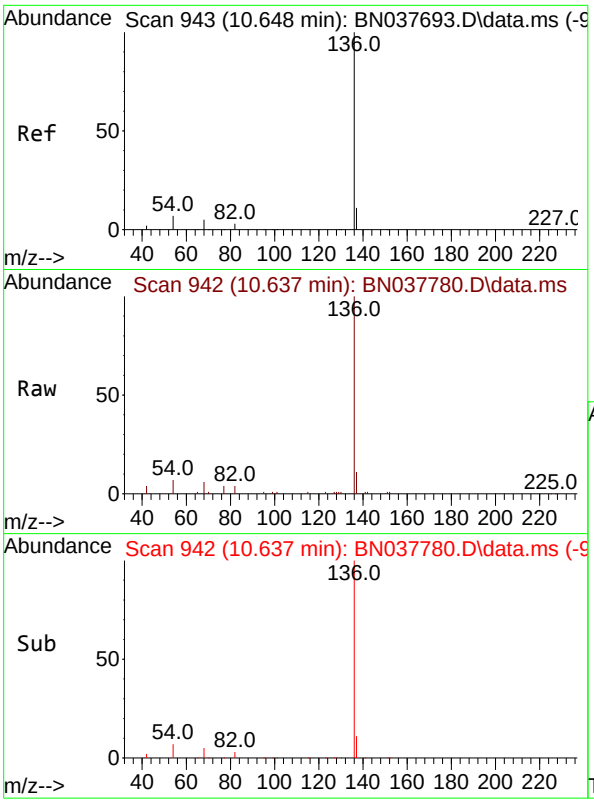


#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Tgt Ion: 99 Resp: 1626

Ion	Ratio	Lower	Upper
99	100		
42	19.2	16.6	24.8
71	38.5	26.7	40.1



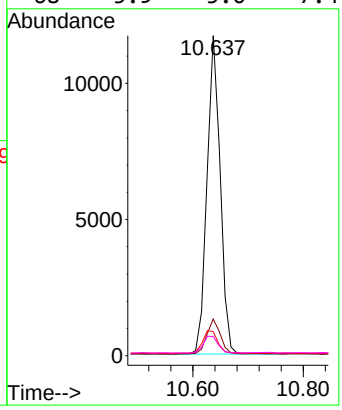


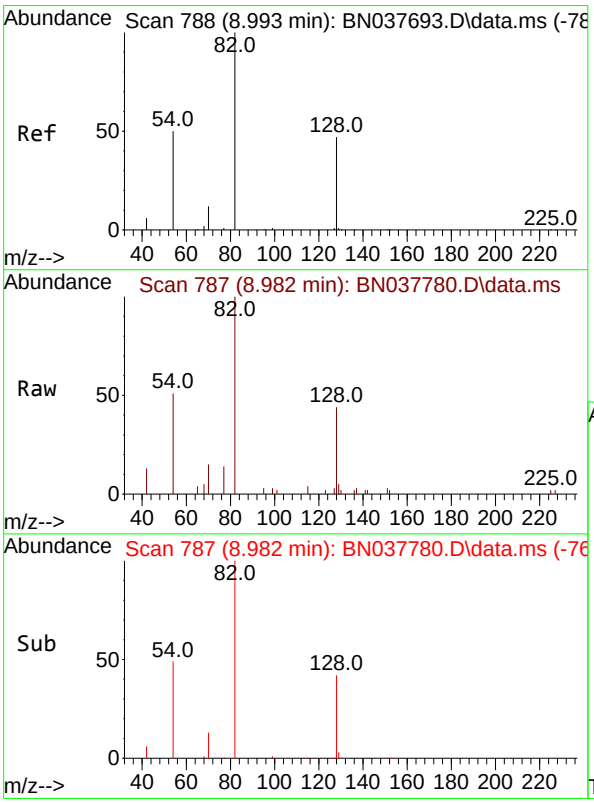
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

Tgt Ion:136 Resp: 19496

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	7.5	6.3	9.5
68	5.9	5.0	7.4

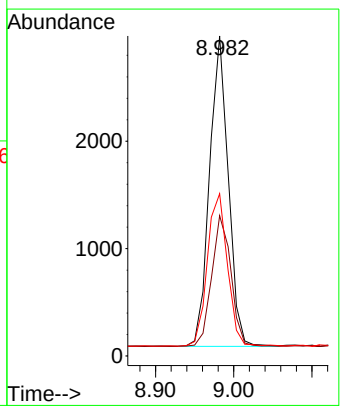


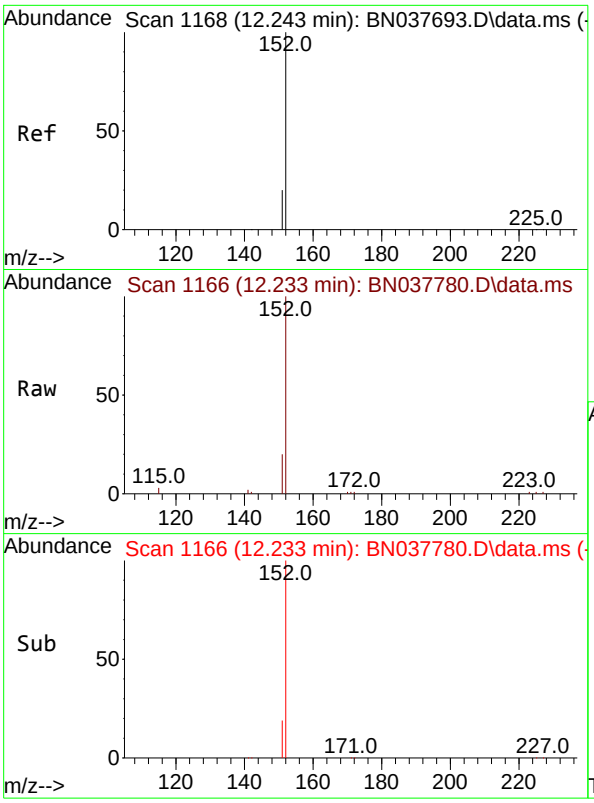


#8
Nitrobenzene-d5
Concen: 0.337 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Tgt Ion: 82 Resp: 4800

Ion	Ratio	Lower	Upper
82	100		
128	43.8	38.3	57.5
54	50.7	41.4	62.2



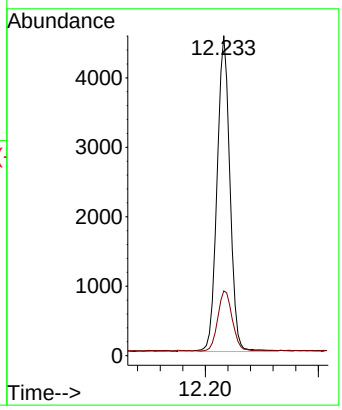


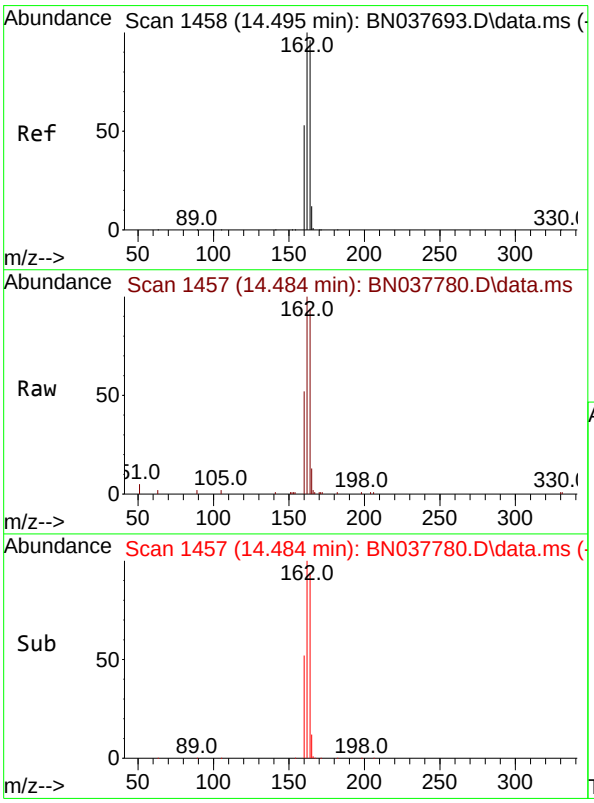
#11
2-Methylnaphthalene-d10
Concen: 0.279 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

Tgt Ion:152 Resp: 7198

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.0	25.6

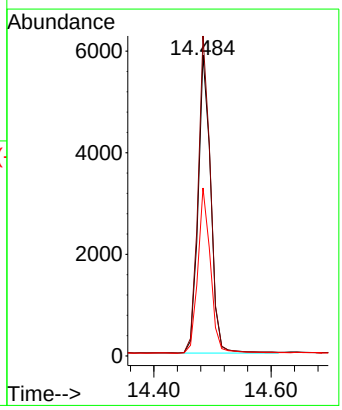


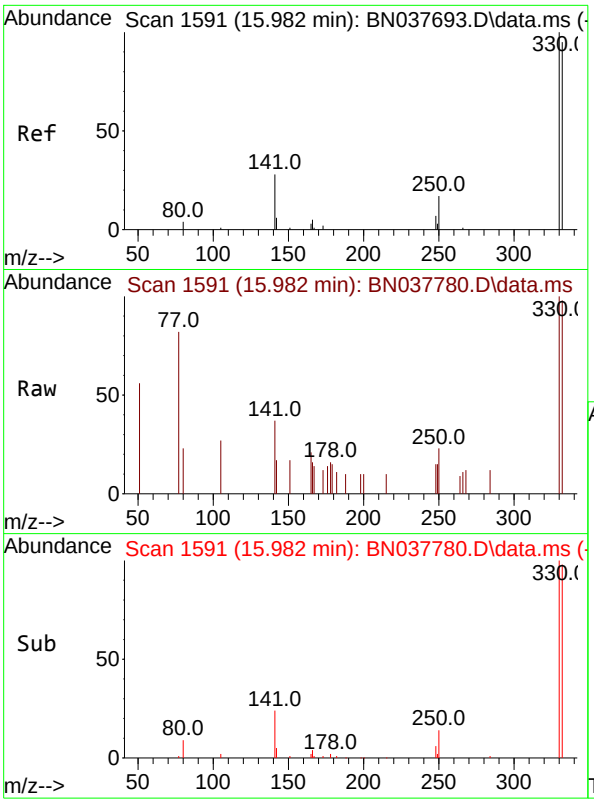


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Tgt Ion:164 Resp: 8745

Ion	Ratio	Lower	Upper
164	100		
162	106.3	83.1	124.7
160	55.8	44.3	66.5



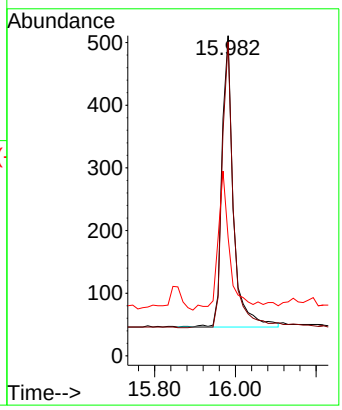


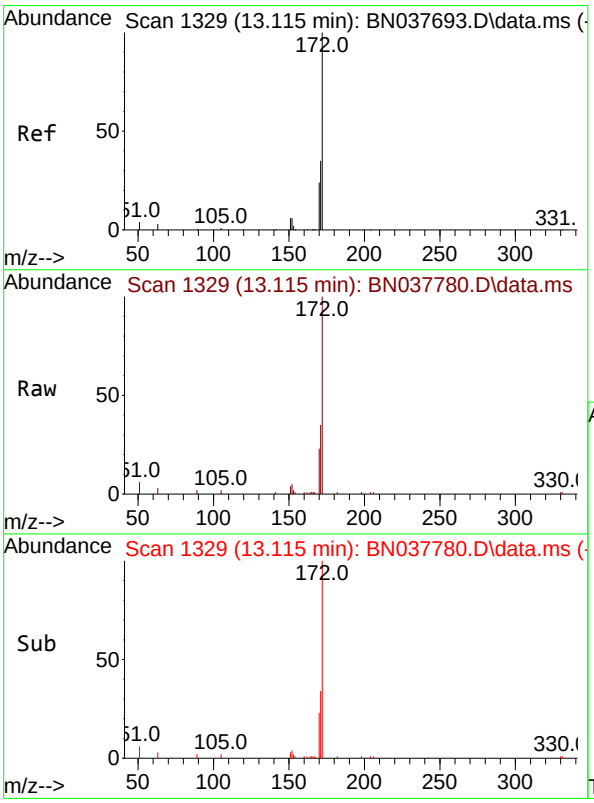
#14
2,4,6-Tribromophenol
Concen: 0.402 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

Tgt Ion:330 Resp: 917

Ion	Ratio	Lower	Upper
330	100		
332	95.4	75.3	112.9
141	48.1	35.0	52.4

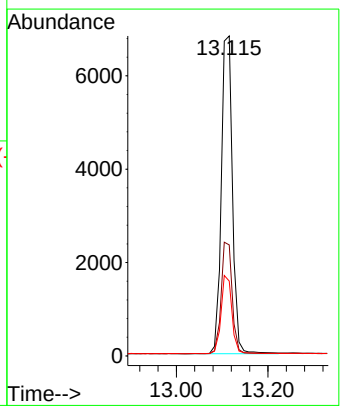


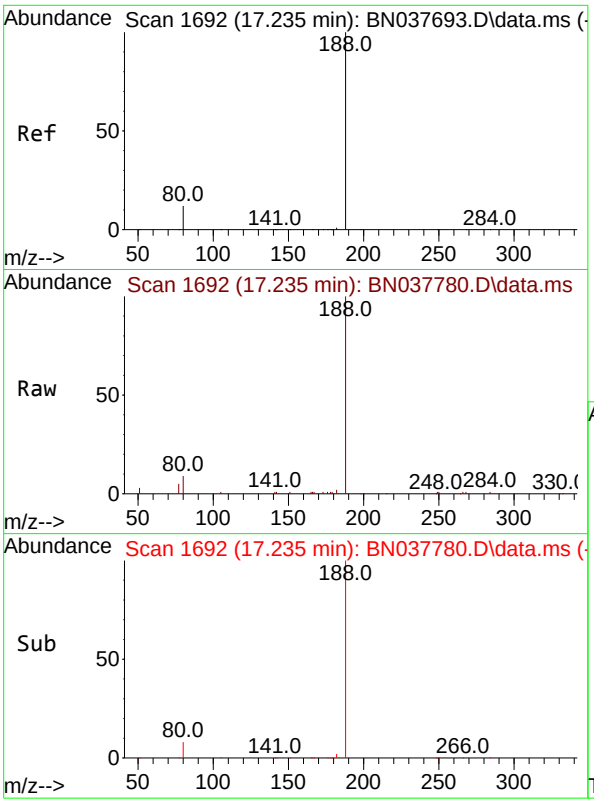


#15
2-Fluorobiphenyl
Concen: 0.307 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Tgt Ion:172 Resp: 11230

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	43.0
170	23.4	19.8	29.8



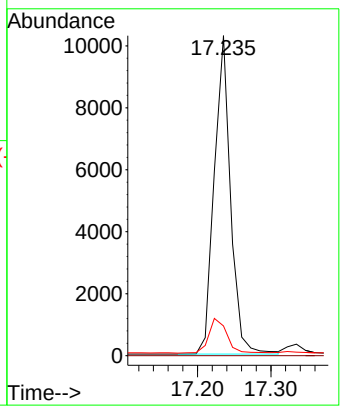


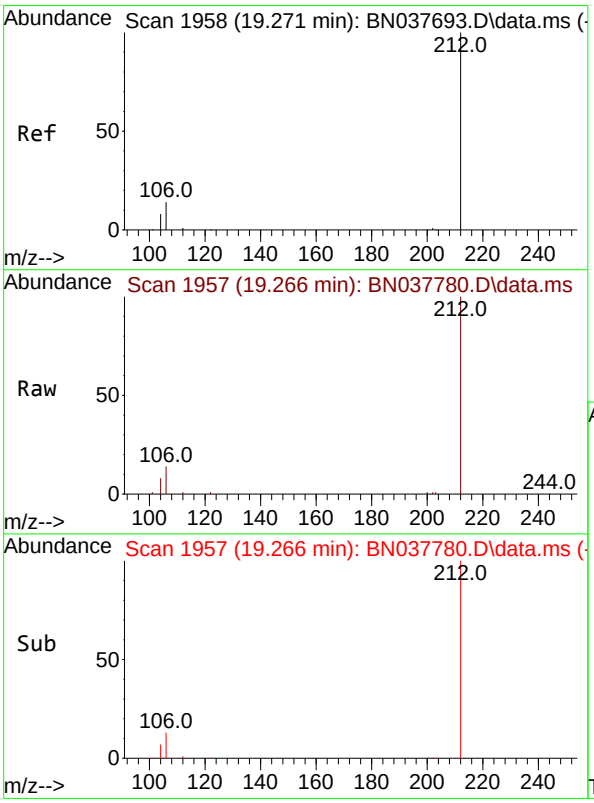
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

Tgt Ion:188 Resp: 15845

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.3	10.6	15.8#

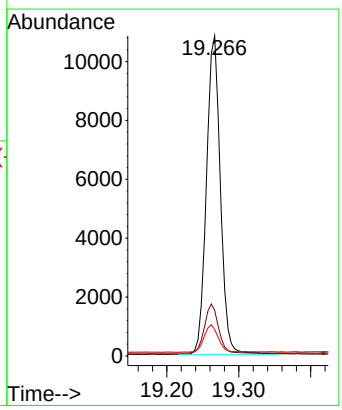


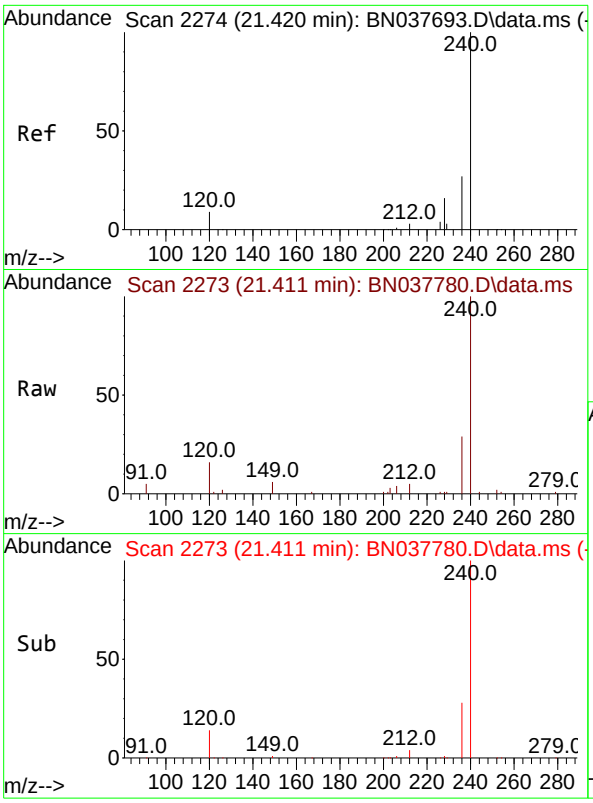


#27
Fluoranthene-d10
Concen: 0.364 ng
RT: 19.266 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Tgt Ion:212 Resp: 14489

Ion	Ratio	Lower	Upper
212	100		
106	15.4	12.2	18.2
104	9.0	6.9	10.3



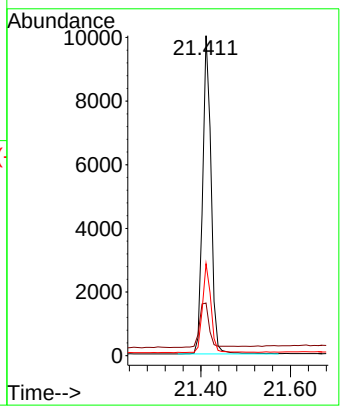


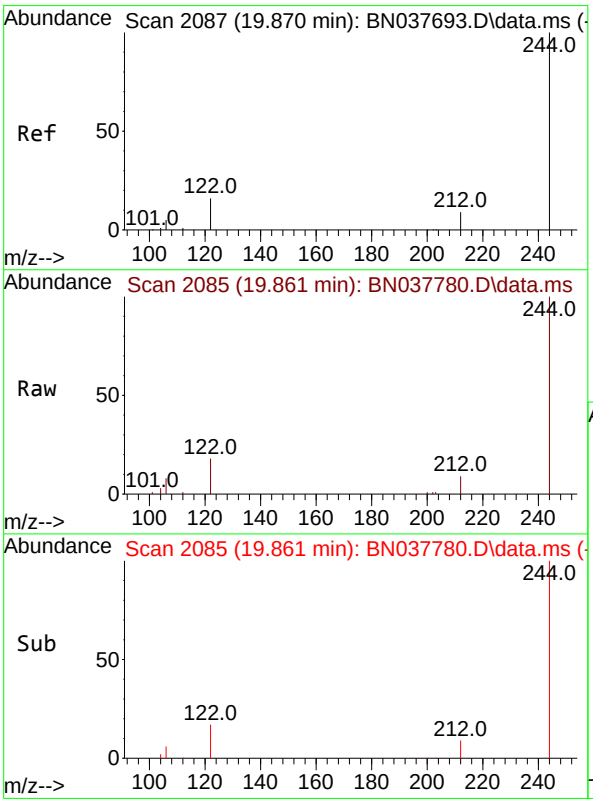
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

Tgt Ion:240 Resp: 13110

Ion	Ratio	Lower	Upper
240	100		
120	16.5	9.2	13.8#
236	28.7	22.6	33.8

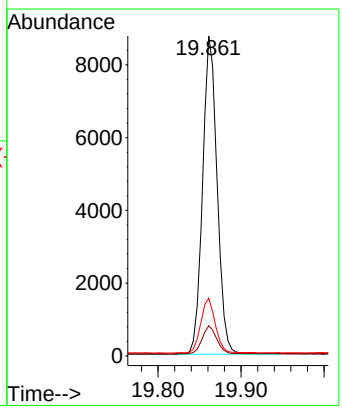


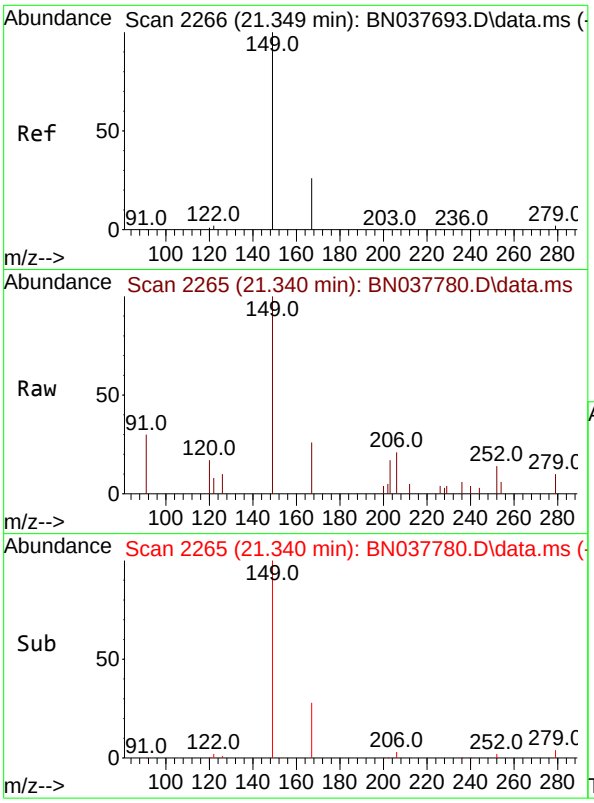


#31
Terphenyl-d14
Concen: 0.400 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Tgt Ion:244 Resp: 10642

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	18.1	13.2	19.8



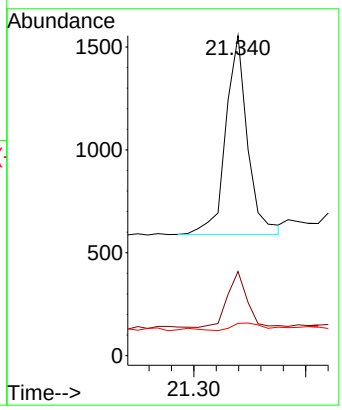


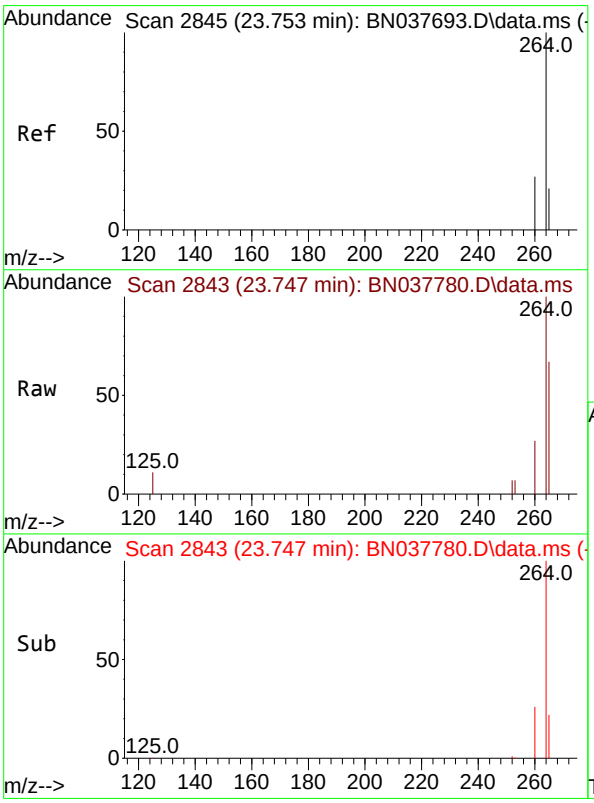
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.096 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

Tgt Ion:149 Resp: 1305

Ion	Ratio	Lower	Upper
149	100		
167	25.6	20.8	31.2
279	6.2	3.3	4.9#

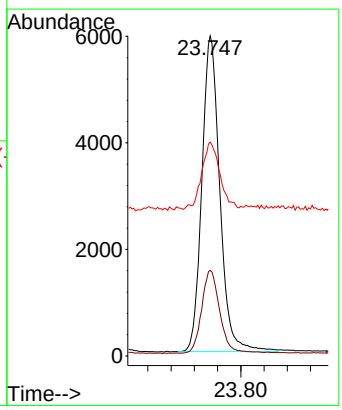




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Tgt Ion:264 Resp: 12712

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.8	32.8
265	66.9	39.4	59.2#



Raw Data: **BN037781.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D3-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-06	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037781.D	1	09/15/25 12:00	09/18/25 17:36	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.10	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.25		30 - 150		63%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6670	7.833				
1146-65-2	Naphthalene-d8	17700	10.637				
15067-26-2	Acenaphthene-d10	7700	14.484				
1517-22-2	Phenanthrene-d10	13800	17.235				
1719-03-5	Chrysene-d12	11300	21.411				
1520-96-3	Perylene-d12	11500	23.744				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **BN037781.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037781.D
Acq On : 18 Sep 2025 17:36
Operator : RC/JU
Sample : Q3097-06
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

Quant Time: Sep 18 18:05:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

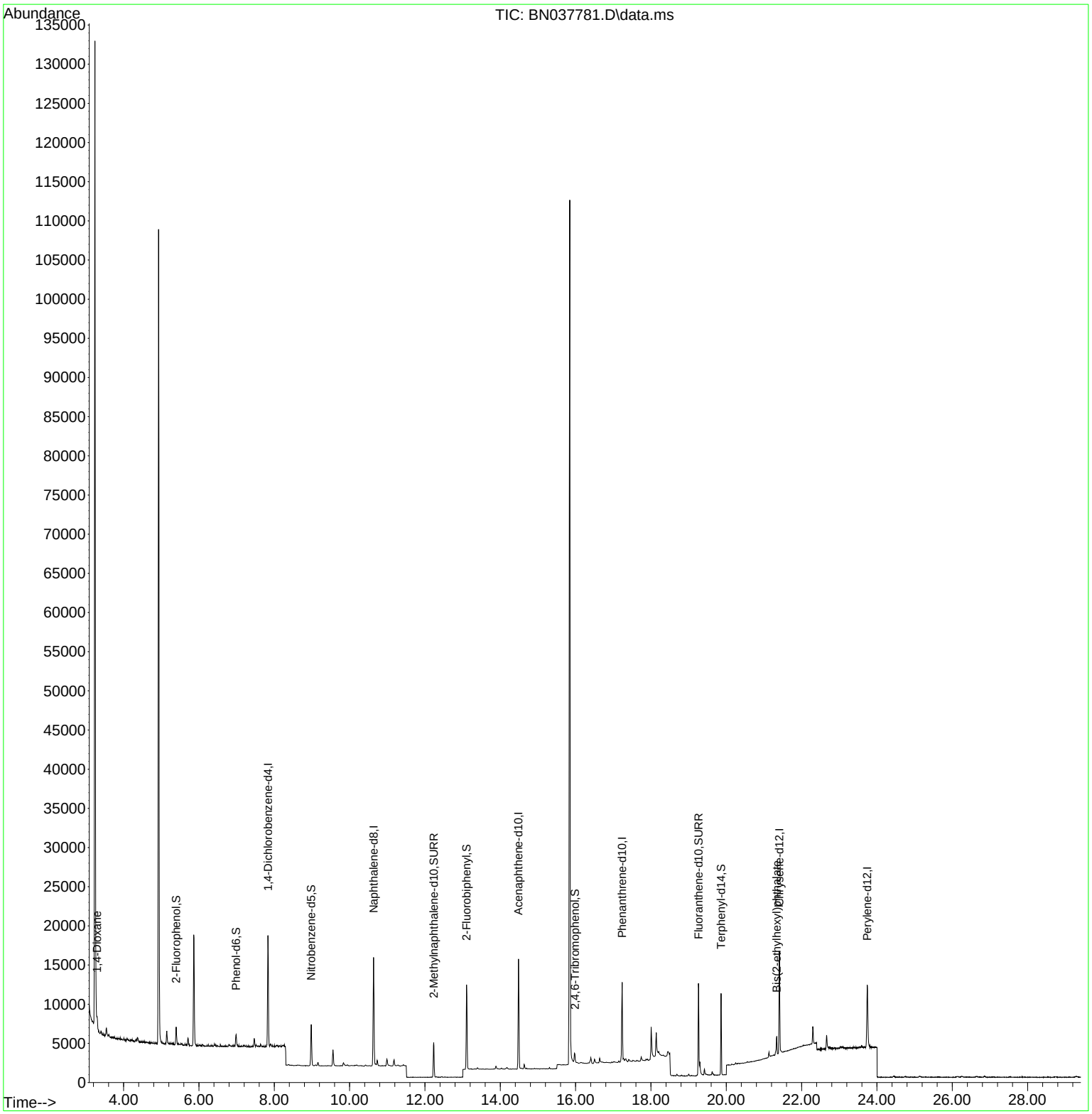
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6672	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	17743	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7701	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	13778	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11339	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	11507	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1893	0.124	ng	0.00
5) Phenol-d6	6.988	99	1438	0.072	ng	0.00
8) Nitrobenzene-d5	8.982	82	4078	0.314	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	5959	0.254	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	793	0.395	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	9525	0.296	ng	-0.01
27) Fluoranthene-d10	19.262	212	12721	0.368	ng	0.00
31) Terphenyl-d14	19.861	244	9276	0.403	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	717	0.103	ng	# 73
34) Bis(2-ethylhexyl)phtha...	21.339	149	2861	0.244	ng	98

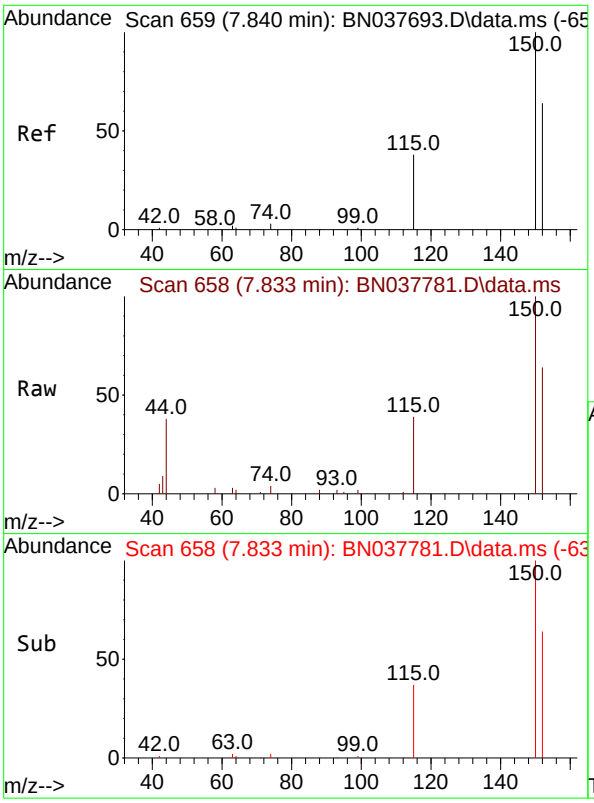
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037781.D
Acq On : 18 Sep 2025 17:36
Operator : RC/JU
Sample : Q3097-06
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

Quant Time: Sep 18 18:05:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



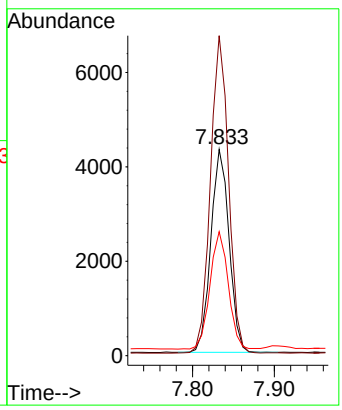


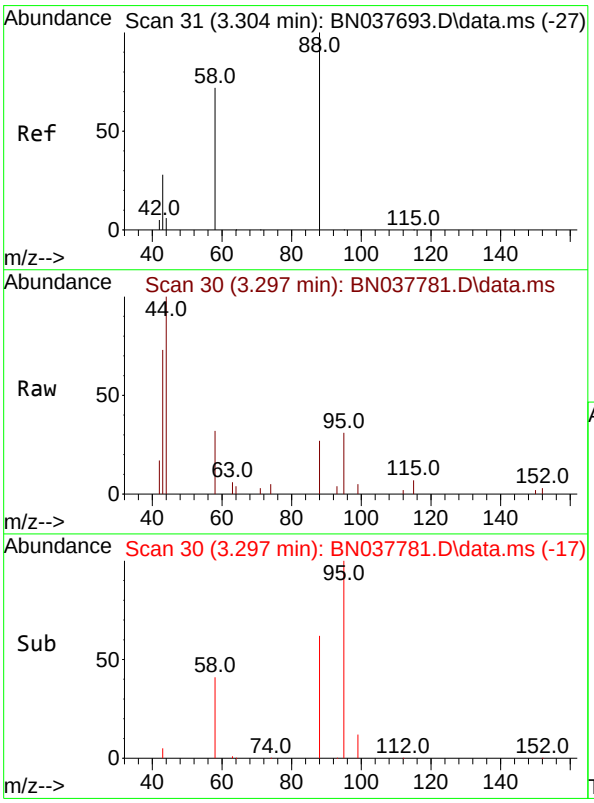
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

Tgt Ion:152 Resp: 6672

Ion	Ratio	Lower	Upper
152	100		
150	155.1	124.5	186.7
115	60.1	49.2	73.8

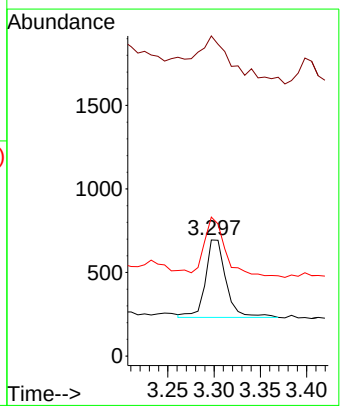


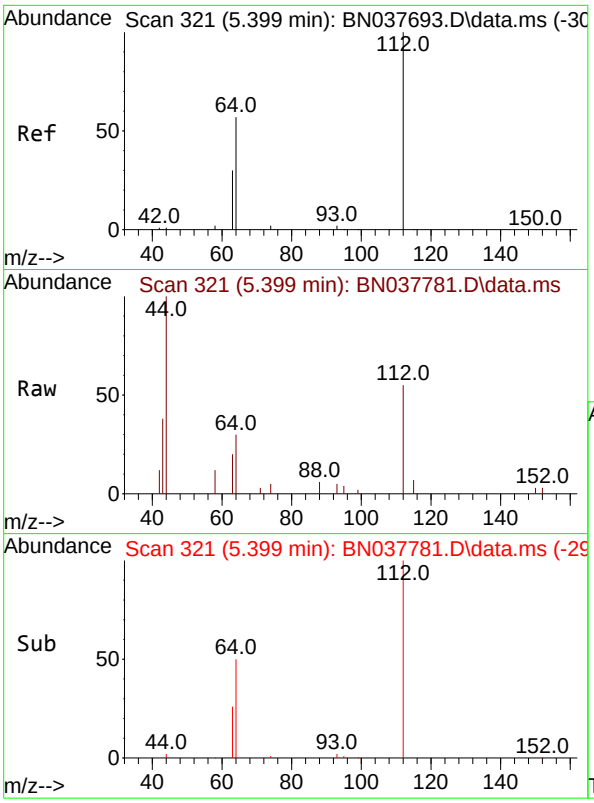


#2
1,4-Dioxane
Concen: 0.103 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Tgt Ion: 88 Resp: 717

Ion	Ratio	Lower	Upper
88	100		
43	80.6	26.8	40.2#
58	74.3	61.9	92.9



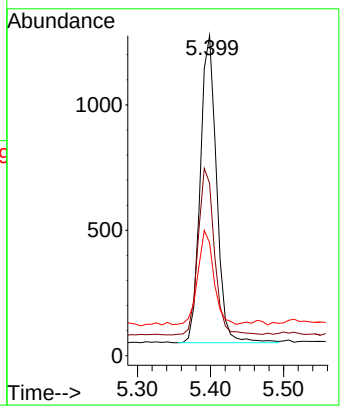


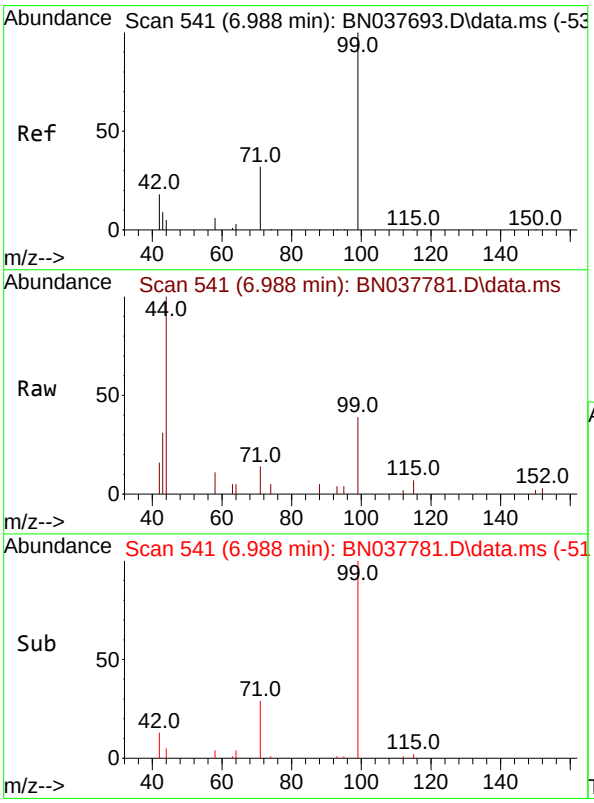
#4
2-Fluorophenol
Concen: 0.124 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

Tgt Ion:112 Resp: 1893

Ion	Ratio	Lower	Upper
112	100		
64	54.5	44.9	67.3
63	30.4	24.7	37.1

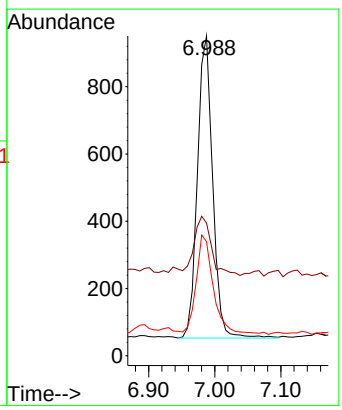


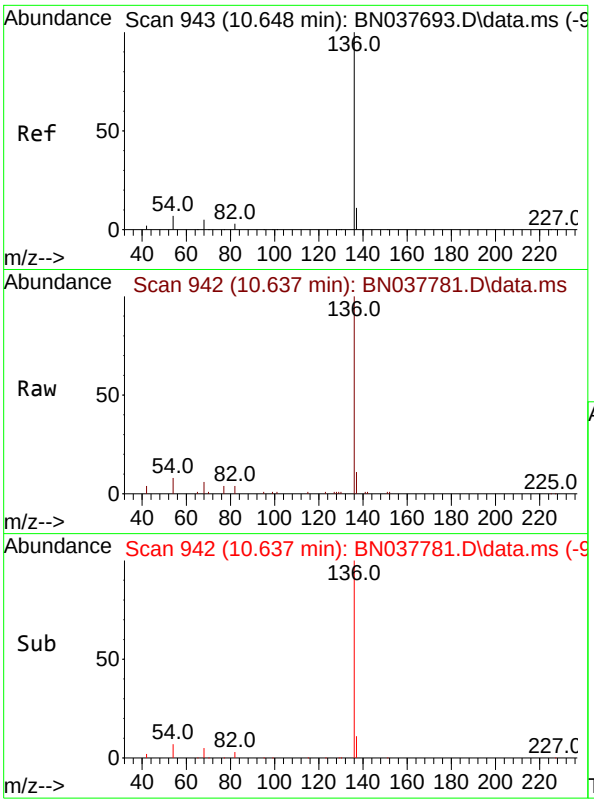


#5
Phenol-d6
Concen: 0.072 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Tgt Ion: 99 Resp: 1438

Ion	Ratio	Lower	Upper
99	100		
42	24.4	16.6	24.8
71	37.3	26.7	40.1



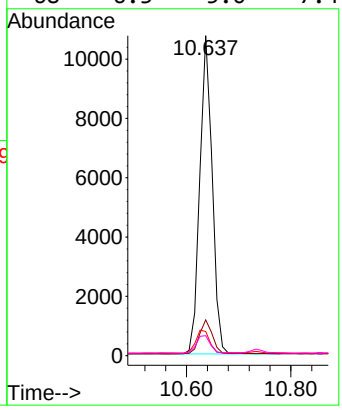


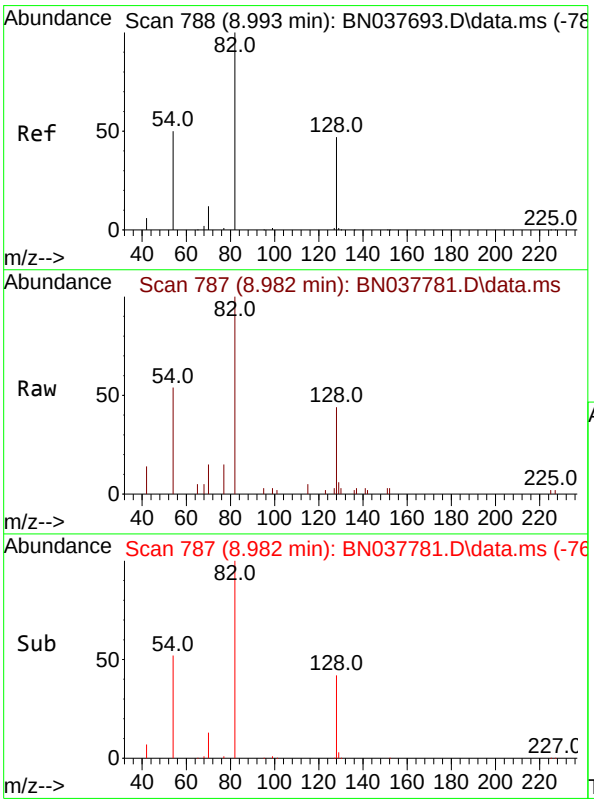
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

Tgt Ion:136 Resp: 17743

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	7.6	6.3	9.5
68	6.3	5.0	7.4

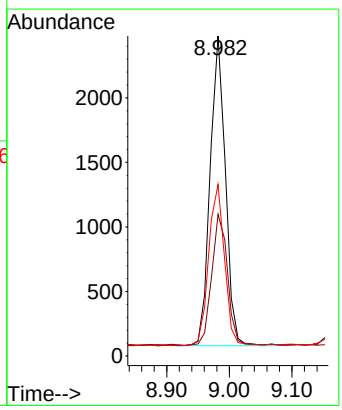


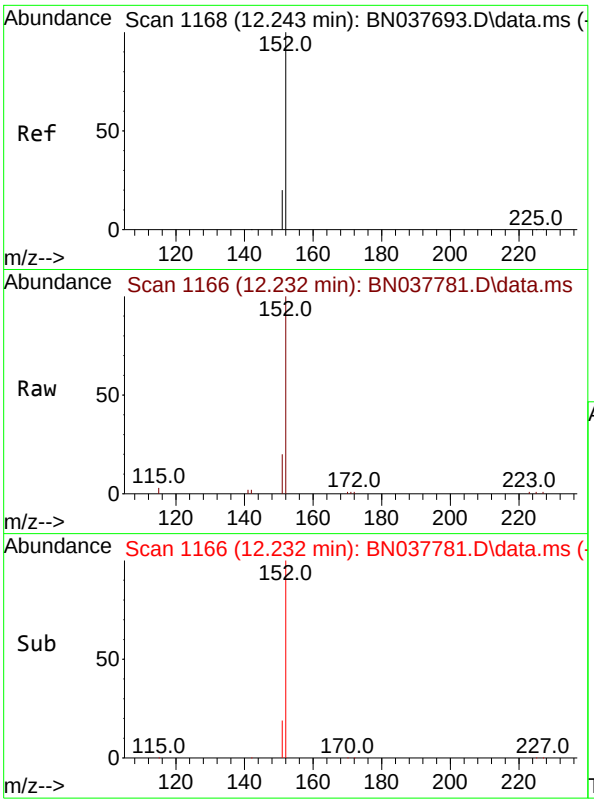


#8
Nitrobenzene-d5
Concen: 0.314 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Tgt Ion: 82 Resp: 4078

Ion	Ratio	Lower	Upper
82	100		
128	44.3	38.3	57.5
54	53.6	41.4	62.2



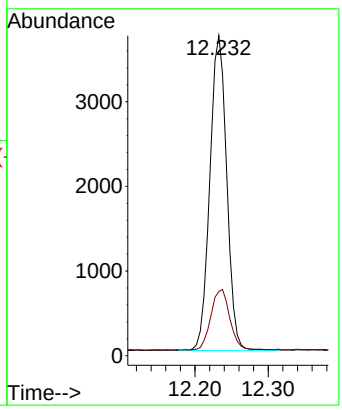


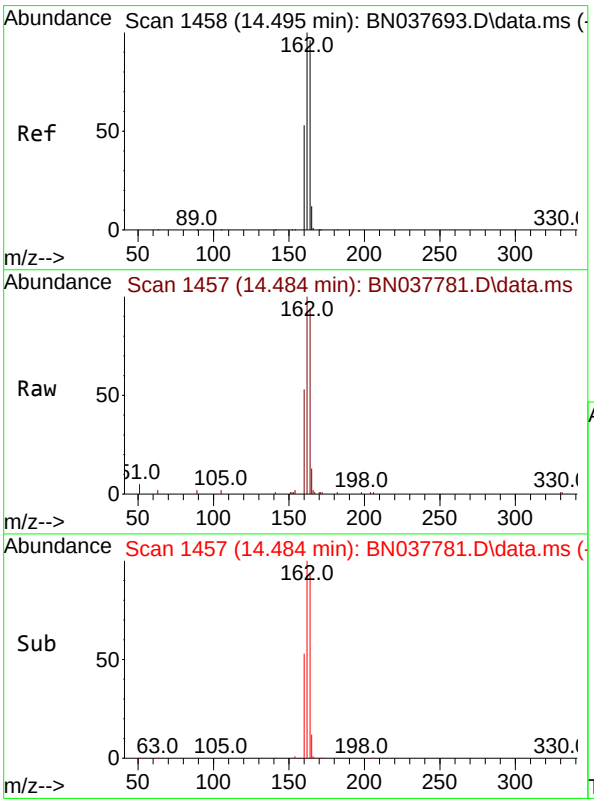
#11
2-Methylnaphthalene-d10
Concen: 0.254 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

Tgt Ion:152 Resp: 5959

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

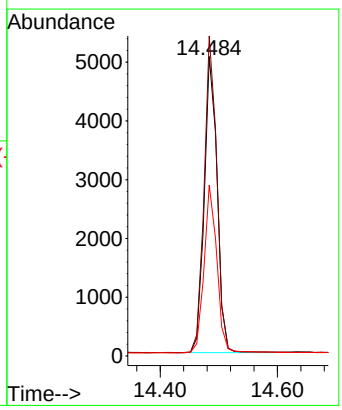


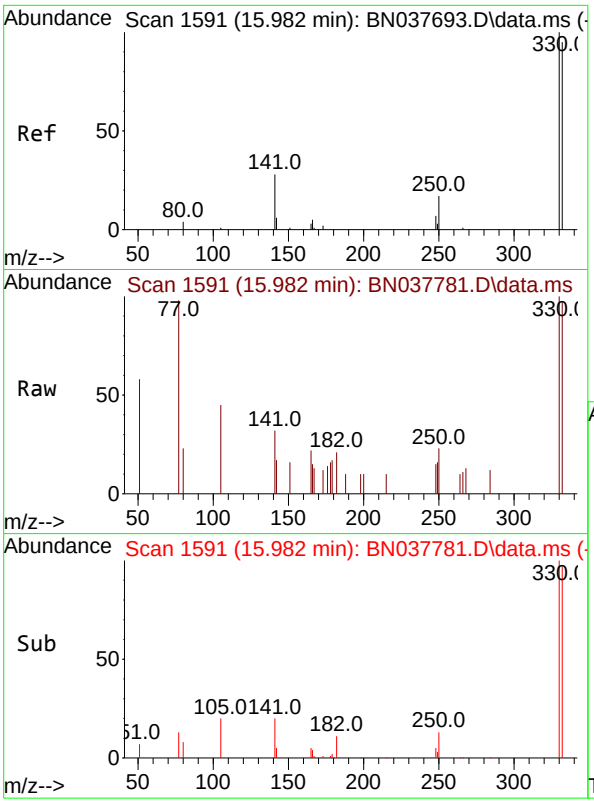


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Tgt Ion:164 Resp: 7701

Ion	Ratio	Lower	Upper
164	100		
162	106.9	83.1	124.7
160	57.1	44.3	66.5



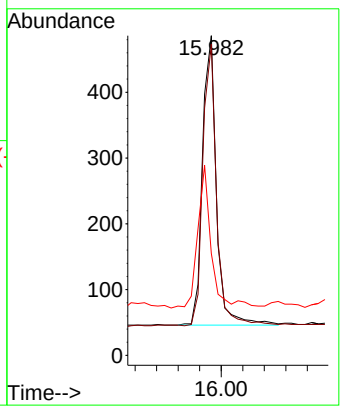


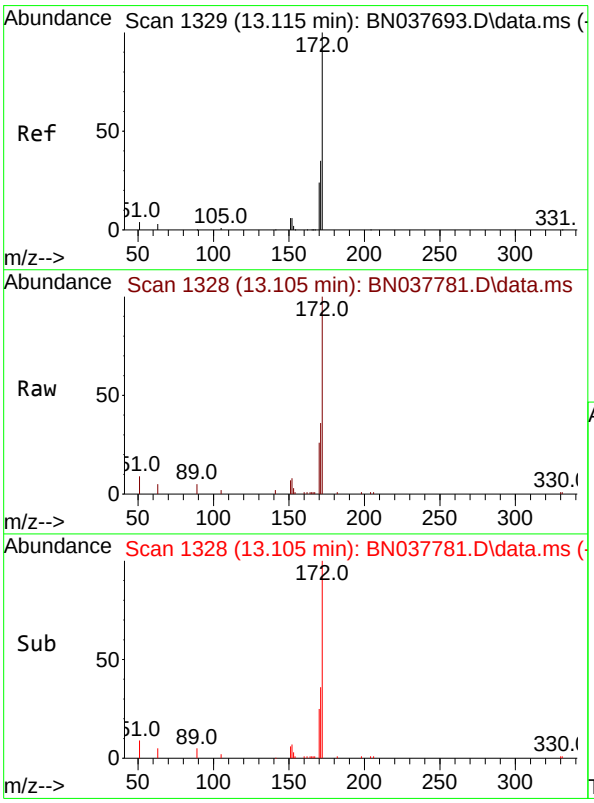
#14
2,4,6-Tribromophenol
Concen: 0.395 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

Tgt Ion:330 Resp: 793

Ion	Ratio	Lower	Upper
330	100		
332	95.6	75.3	112.9
141	48.0	35.0	52.4

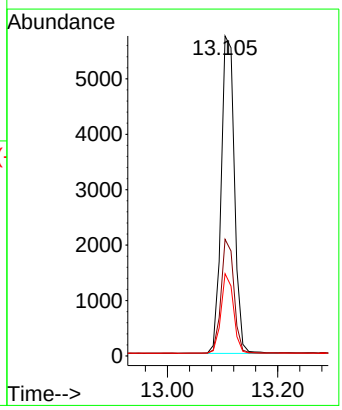


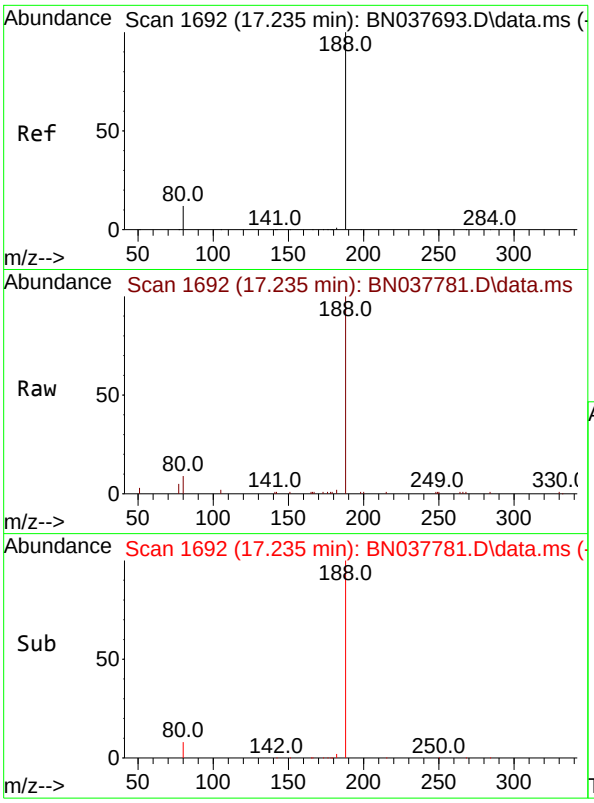


#15
2-Fluorobiphenyl
Concen: 0.296 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Tgt Ion:172 Resp: 9525

Ion	Ratio	Lower	Upper
172	100		
171	36.5	28.6	43.0
170	25.7	19.8	29.8



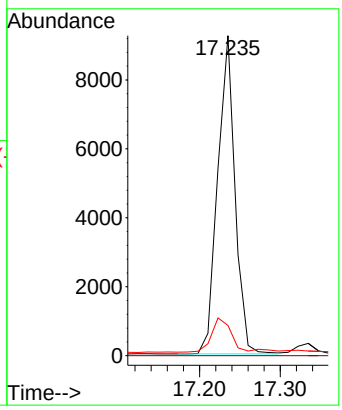


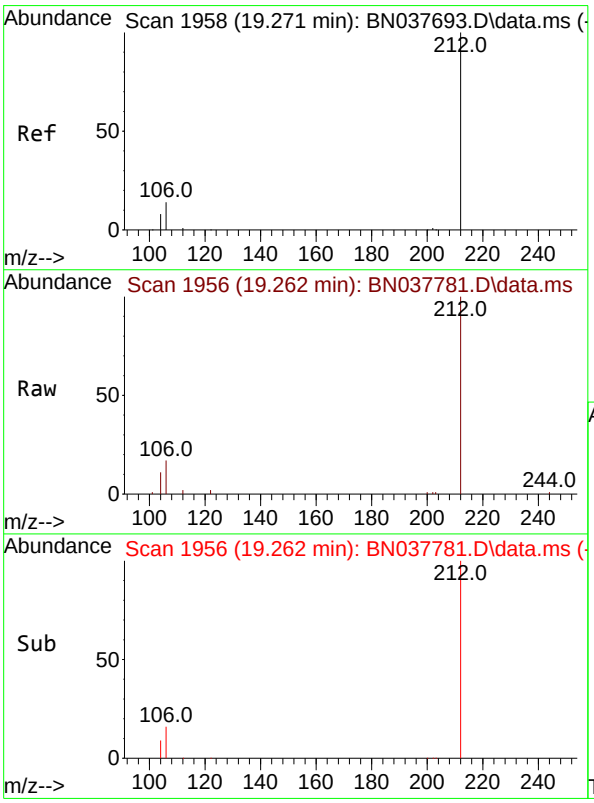
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

Tgt Ion:188 Resp: 13778

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.4	10.6	15.8#

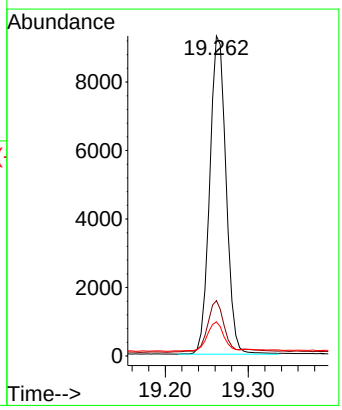


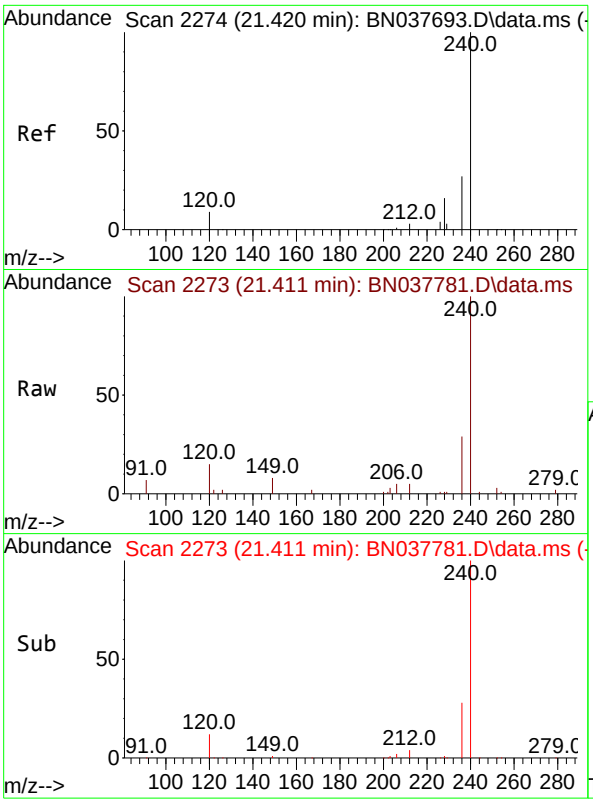


#27
Fluoranthene-d10
Concen: 0.368 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.010 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Tgt Ion:212 Resp: 12721

Ion	Ratio	Lower	Upper
212	100		
106	16.4	12.2	18.2
104	9.7	6.9	10.3



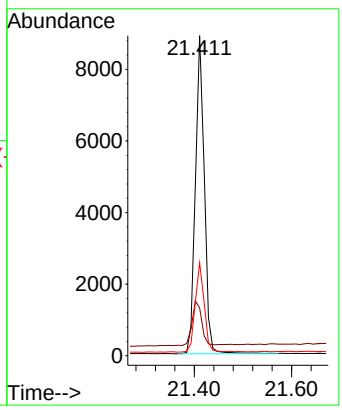


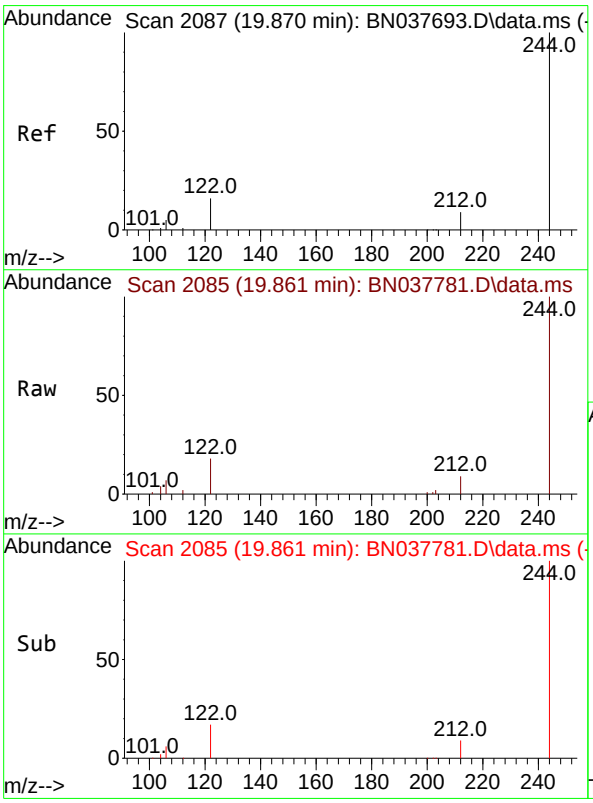
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

Tgt Ion:240 Resp: 11339

Ion	Ratio	Lower	Upper
240	100		
120	14.9	9.2	13.8#
236	29.0	22.6	33.8

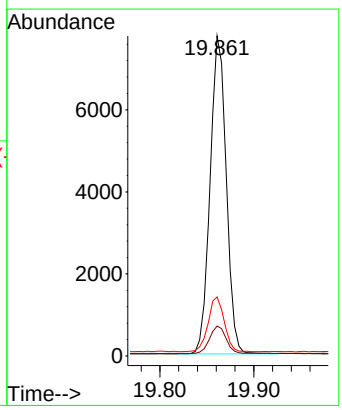


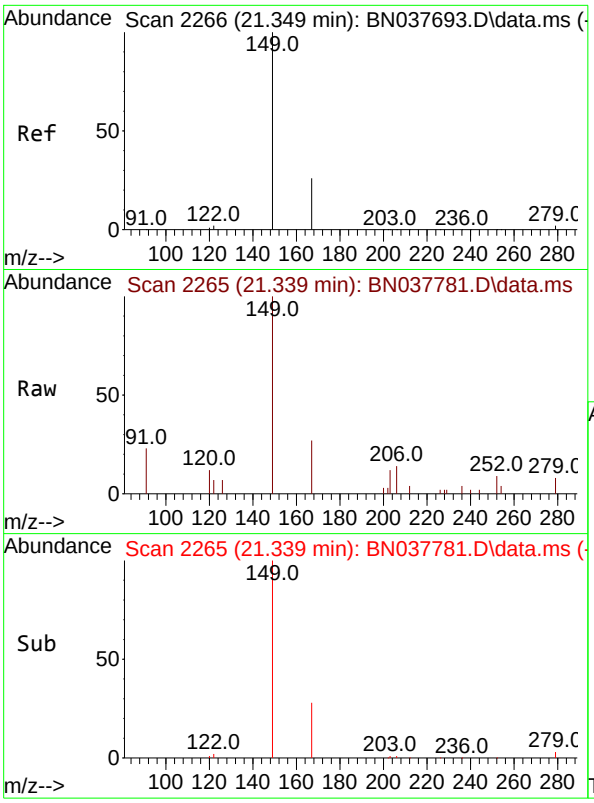


#31
Terphenyl-d14
Concen: 0.403 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.010 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Tgt Ion:244 Resp: 9276

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	18.4	13.2	19.8



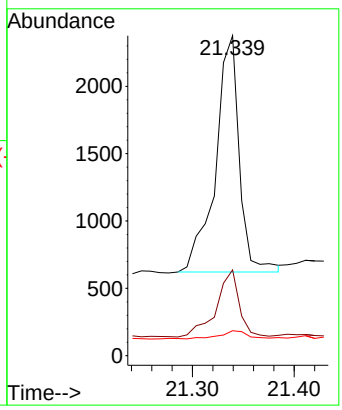


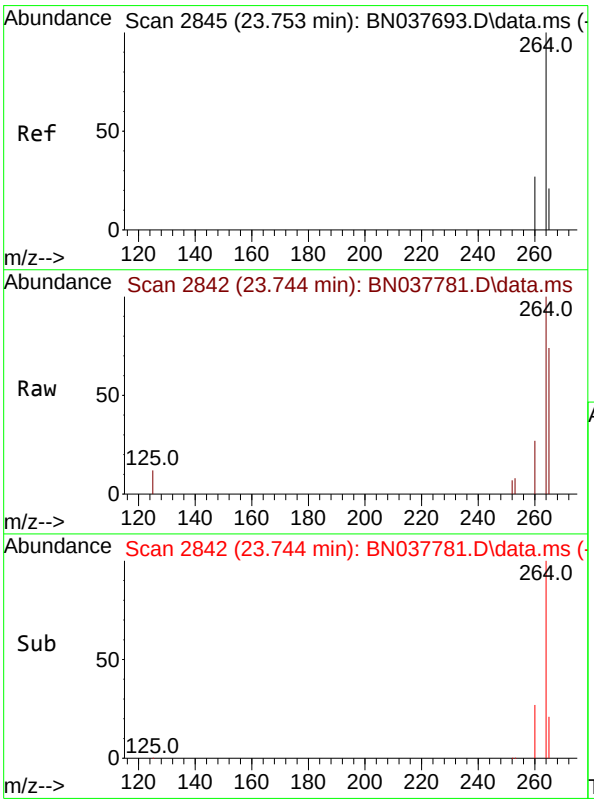
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.244 ng
RT: 21.339 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

Tgt Ion:149 Resp: 2861

Ion	Ratio	Lower	Upper
149	100		
167	27.3	20.8	31.2
279	3.9	3.3	4.9

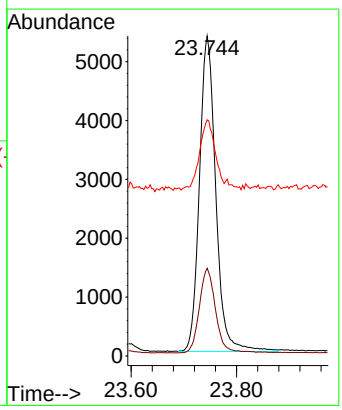




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Tgt Ion:264 Resp: 11507

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.8	32.8
265	73.8	39.4	59.2#



Raw Data: **BN037769.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE108D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-07	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037769.D	1	09/15/25 12:00	09/18/25 08:47	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7630	7.833				
1146-65-2	Naphthalene-d8	20700	10.637				
15067-26-2	Acenaphthene-d10	9180	14.484				
1517-22-2	Phenanthrene-d10	15800	17.235				
1719-03-5	Chrysene-d12	12900	21.411				
1520-96-3	Perylene-d12	13800	23.744				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037769.D
Acq On : 18 Sep 2025 08:47
Operator : RC/JU
Sample : Q3097-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

Quant Time: Sep 18 10:45:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

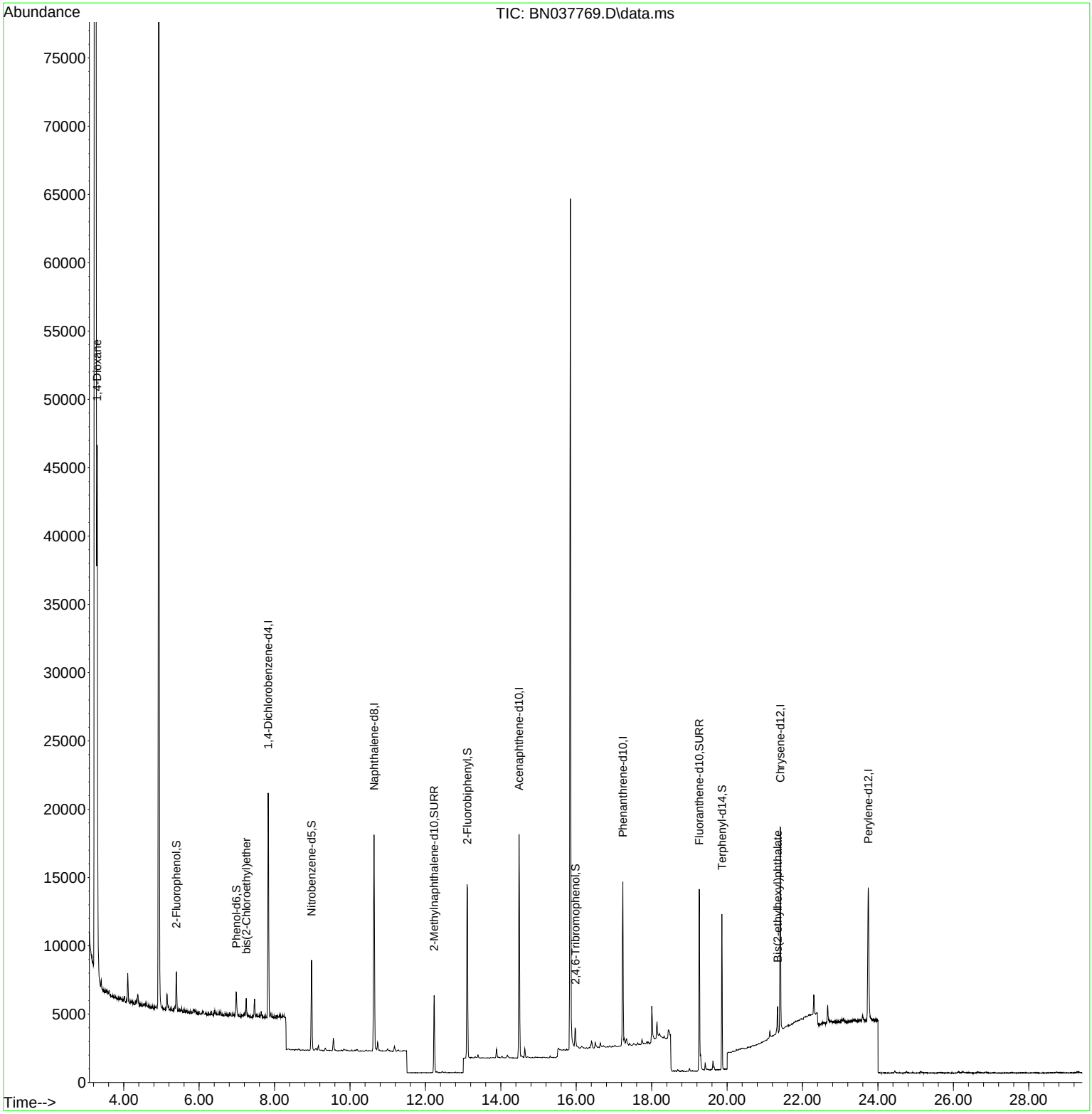
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7633	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	20699	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	9180	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	15761	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	12936	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	13802	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2354	0.134	ng	0.00
5) Phenol-d6	6.988	99	1725	0.076	ng	0.00
8) Nitrobenzene-d5	8.982	82	4954	0.327	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	7708	0.281	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	947	0.396	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	12078	0.315	ng	0.00
27) Fluoranthene-d10	19.262	212	14465	0.366	ng	0.00
31) Terphenyl-d14	19.861	244	10438	0.398	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	16466	2.071	ng	96
6) bis(2-Chloroethyl)ether	7.248	93	816	0.040	ng	96
34) Bis(2-ethylhexyl)phtha...	21.340	149	2243	0.168	ng	97

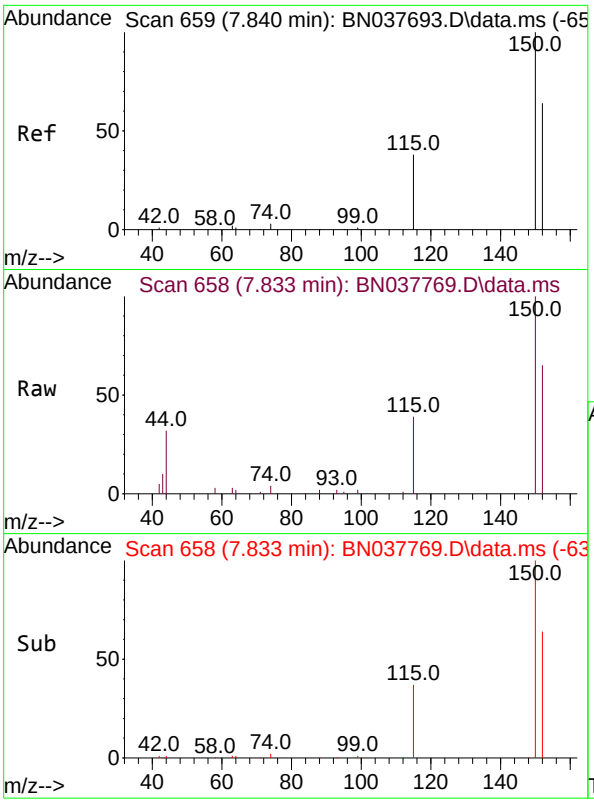
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037769.D
Acq On : 18 Sep 2025 08:47
Operator : RC/JU
Sample : Q3097-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

Quant Time: Sep 18 10:45:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



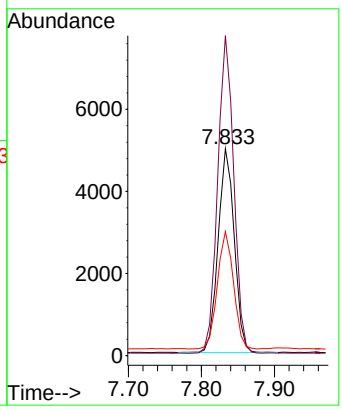


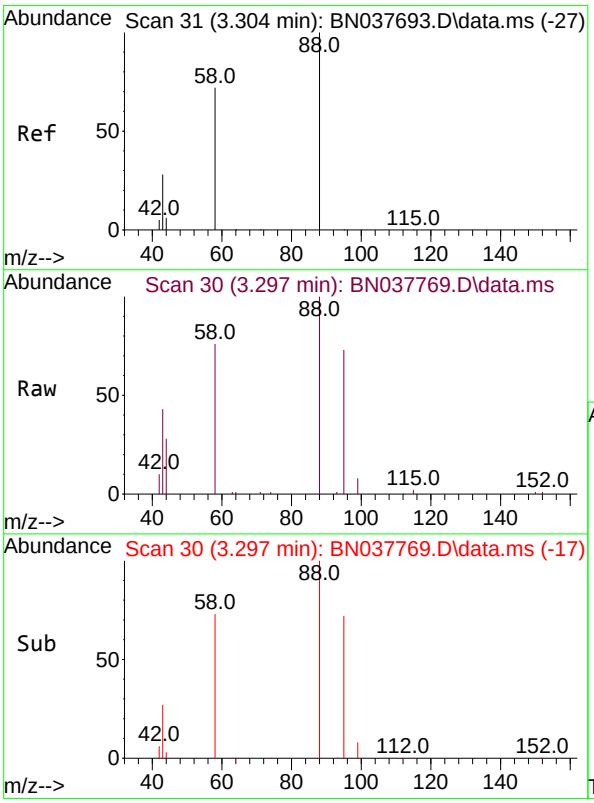
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

Tgt Ion:152 Resp: 7633

Ion	Ratio	Lower	Upper
152	100		
150	154.6	124.5	186.7
115	59.9	49.2	73.8

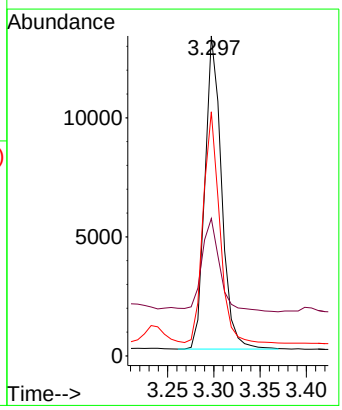


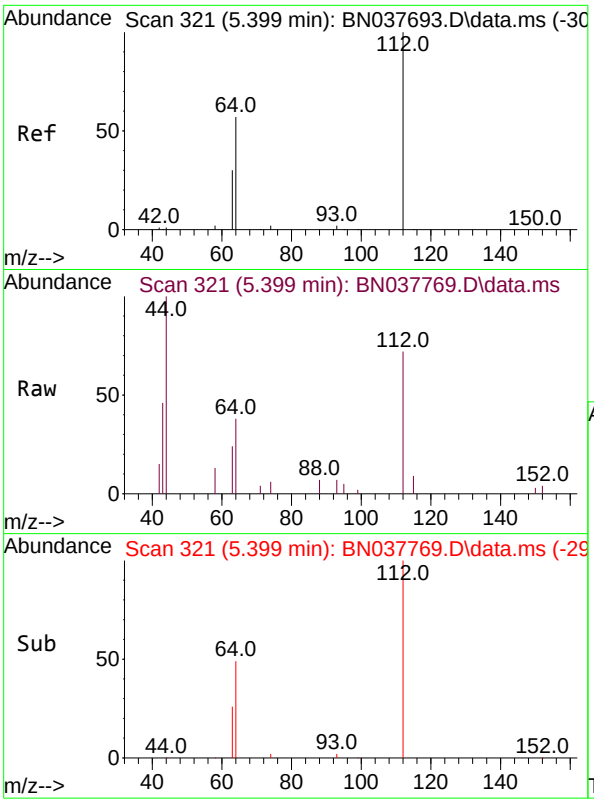


#2
1,4-Dioxane
Concen: 2.071 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion: 88 Resp: 16466

Ion	Ratio	Lower	Upper
88	100		
43	32.0	26.8	40.2
58	72.9	61.9	92.9



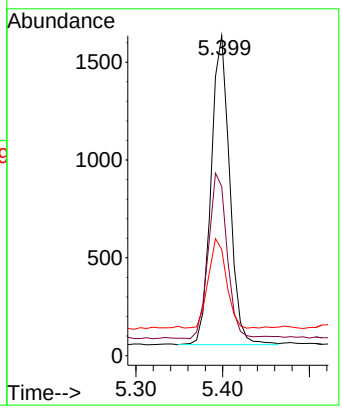


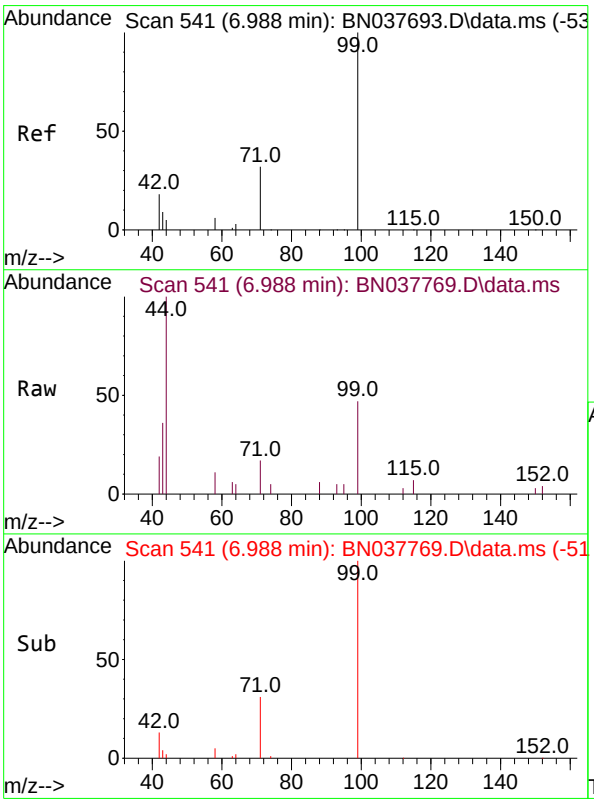
#4
2-Fluorophenol
Concen: 0.134 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

Tgt Ion:112 Resp: 2354

Ion	Ratio	Lower	Upper
112	100		
64	53.4	44.9	67.3
63	28.0	24.7	37.1

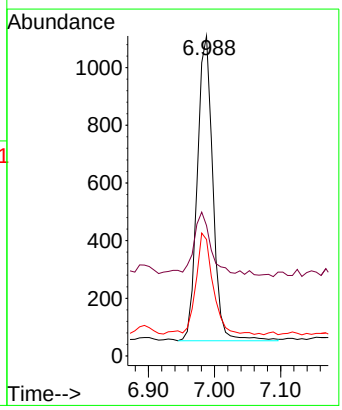


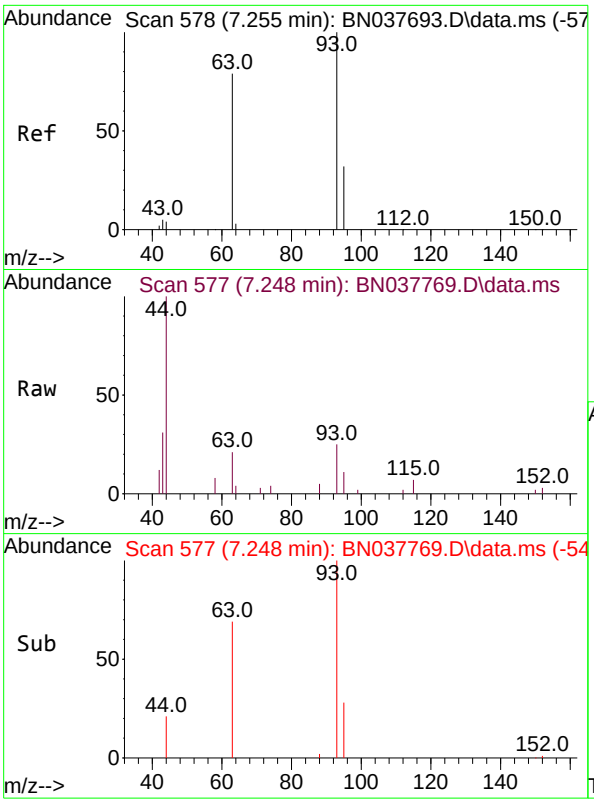


#5
Phenol-d6
Concen: 0.076 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion: 99 Resp: 1725

Ion	Ratio	Lower	Upper
99	100		
42	20.9	16.6	24.8
71	37.3	26.7	40.1



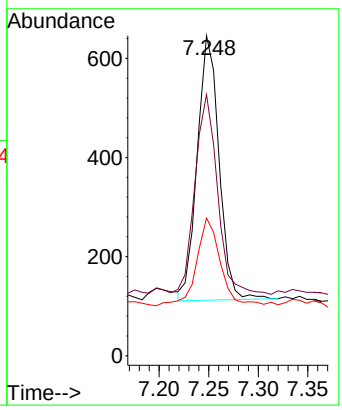


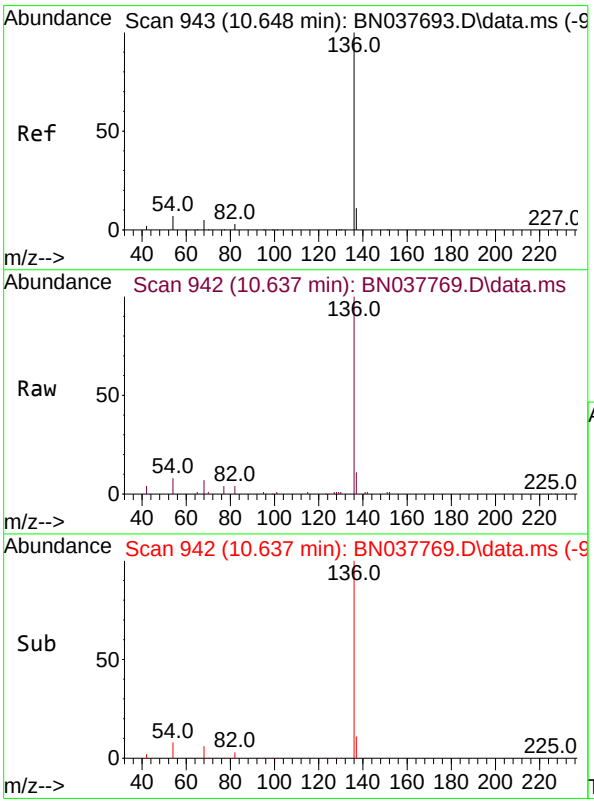
#6
bis(2-Chloroethyl)ether
Concen: 0.040 ng
RT: 7.248 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

Tgt Ion: 93 Resp: 816

Ion	Ratio	Lower	Upper
93	100		
63	78.1	60.6	90.8
95	36.2	26.0	39.0

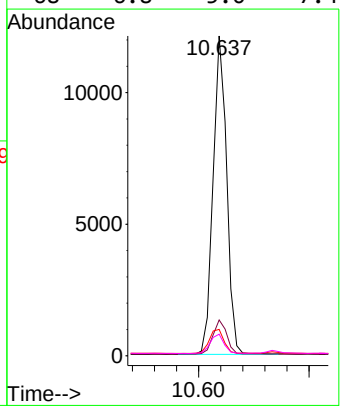


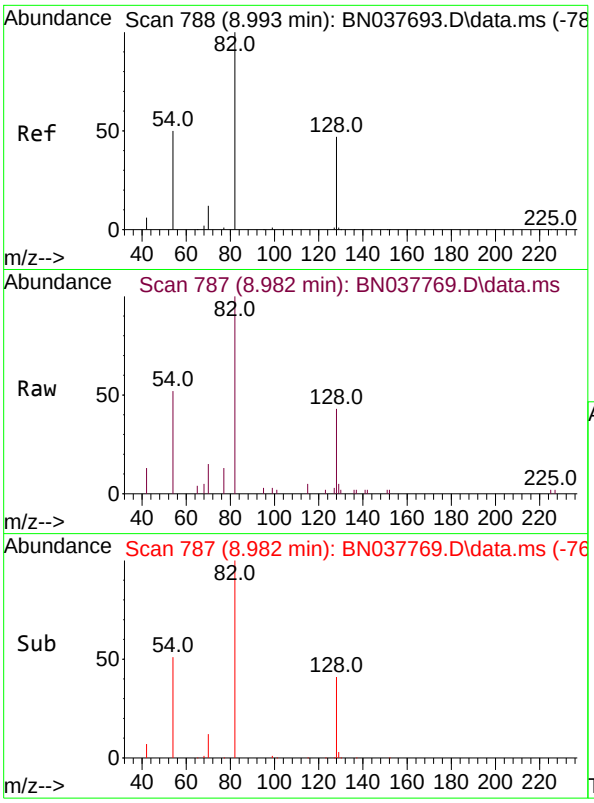


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion:136 Resp: 20699

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	8.3	6.3	9.5
68	6.8	5.0	7.4



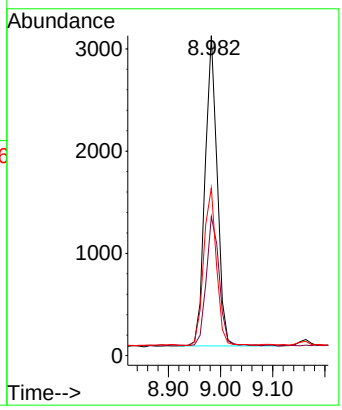


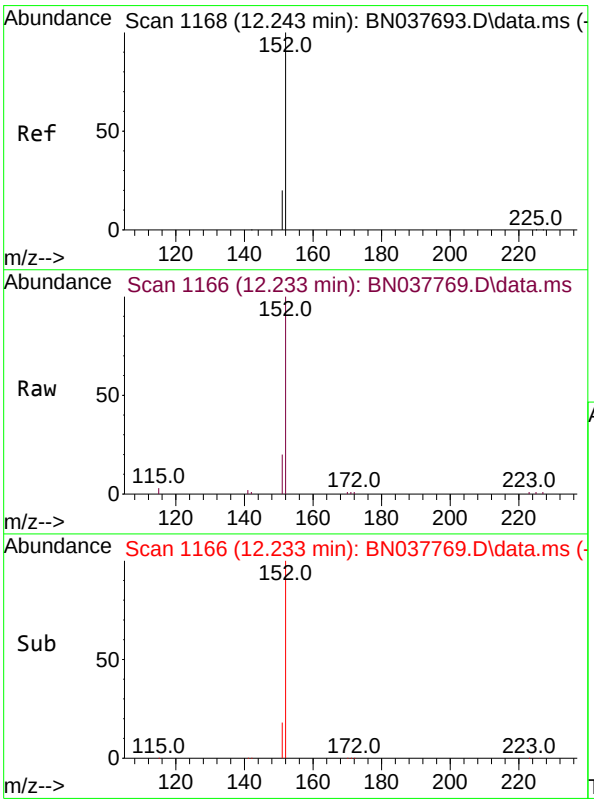
#8
Nitrobenzene-d5
Concen: 0.327 ng
RT: 8.982 min Scan# 78
Delta R.T. -0.011 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

Tgt Ion: 82 Resp: 4954

Ion	Ratio	Lower	Upper
82	100		
128	43.4	38.3	57.5
54	52.4	41.4	62.2

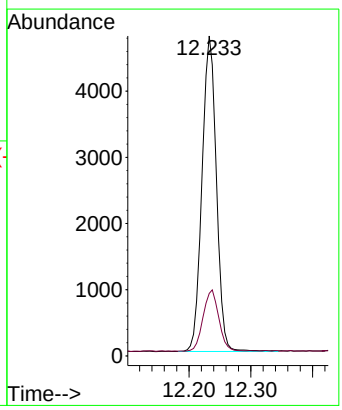


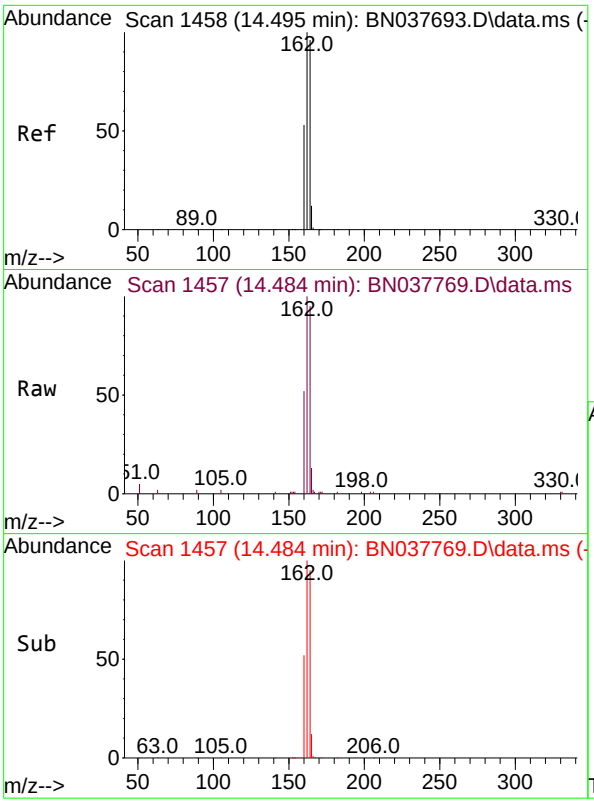


#11
2-Methylnaphthalene-d10
Concen: 0.281 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion:152 Resp: 7708

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6



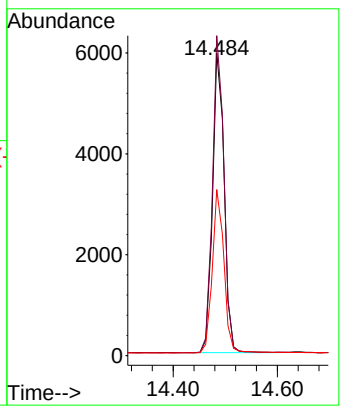


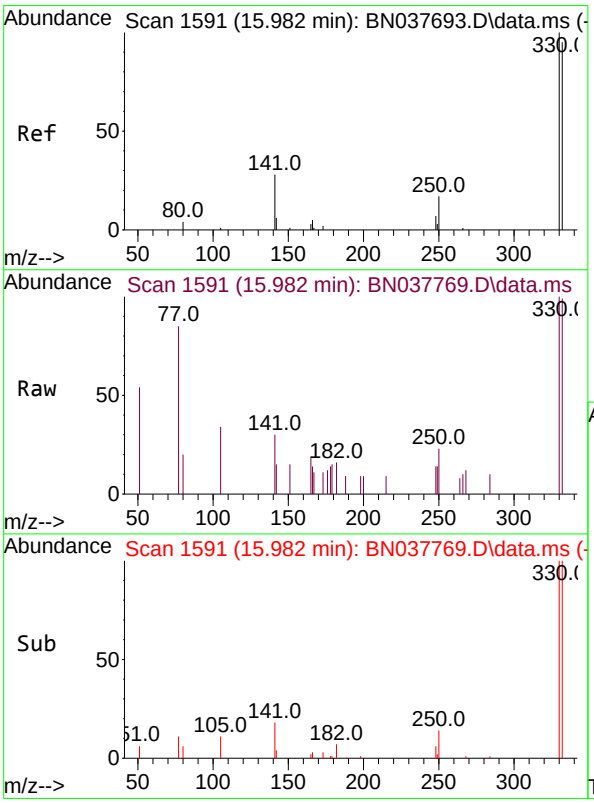
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

Tgt Ion:164 Resp: 9180

Ion	Ratio	Lower	Upper
164	100		
162	105.8	83.1	124.7
160	54.9	44.3	66.5

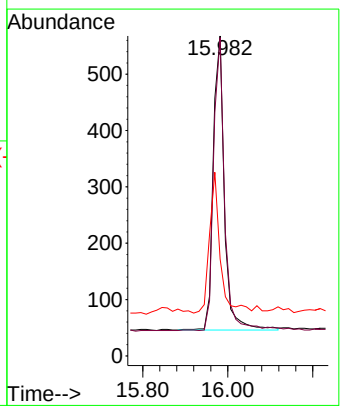


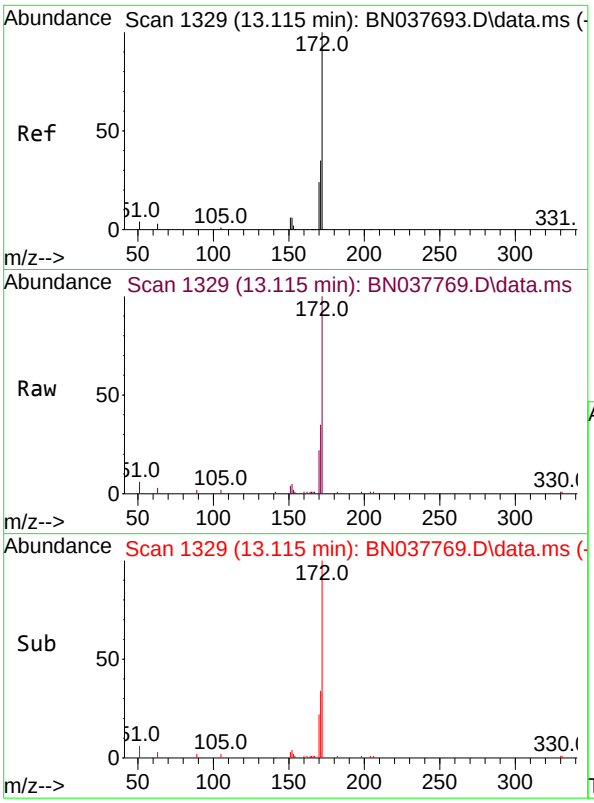


#14
2,4,6-Tribromophenol
Concen: 0.396 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion:330 Resp: 947

Ion	Ratio	Lower	Upper
330	100		
332	98.4	75.3	112.9
141	46.0	35.0	52.4



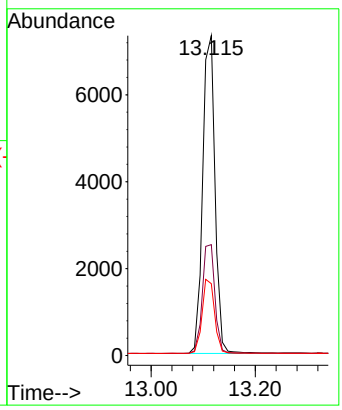


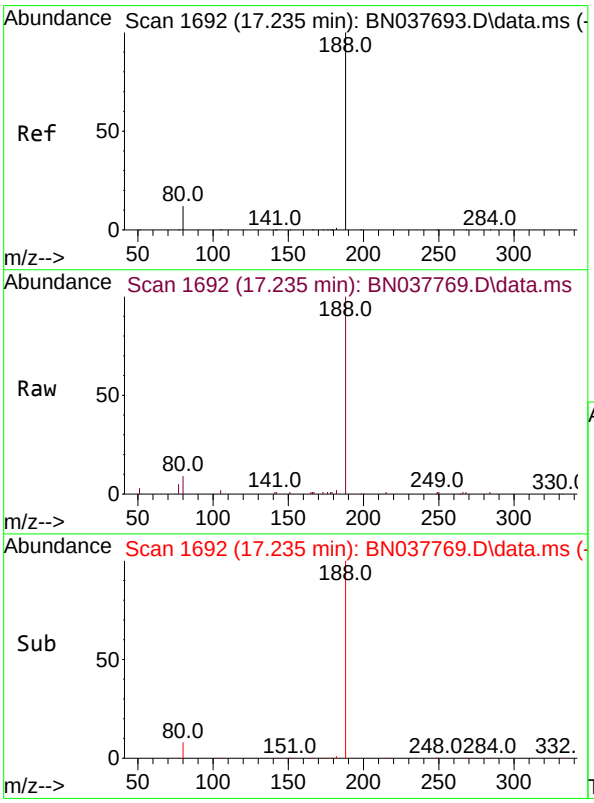
#15
2-Fluorobiphenyl
Concen: 0.315 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

Tgt Ion:172 Resp: 12078

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	43.0
170	22.5	19.8	29.8

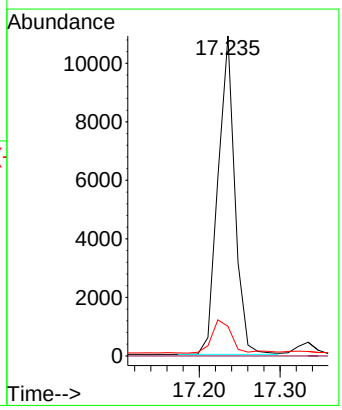


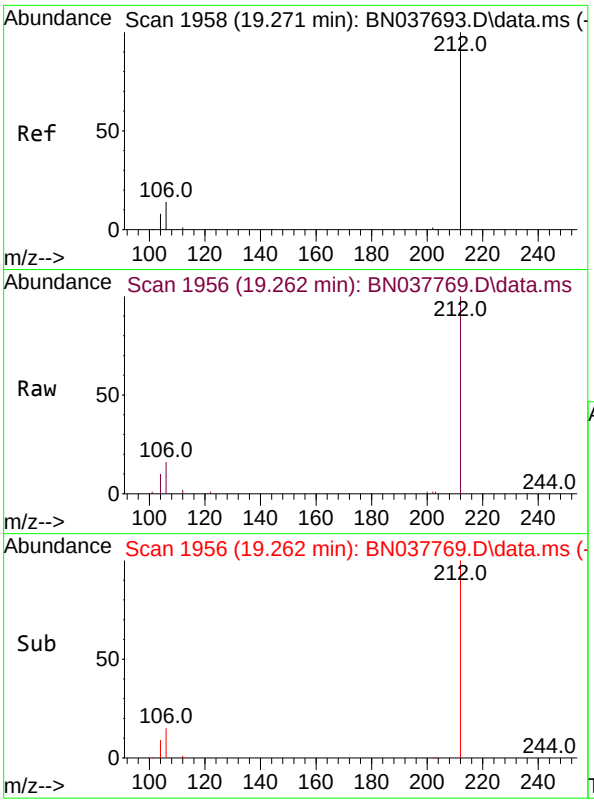


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion:188 Resp: 15761

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	10.6	15.8#



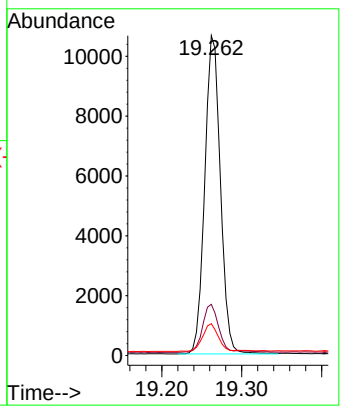


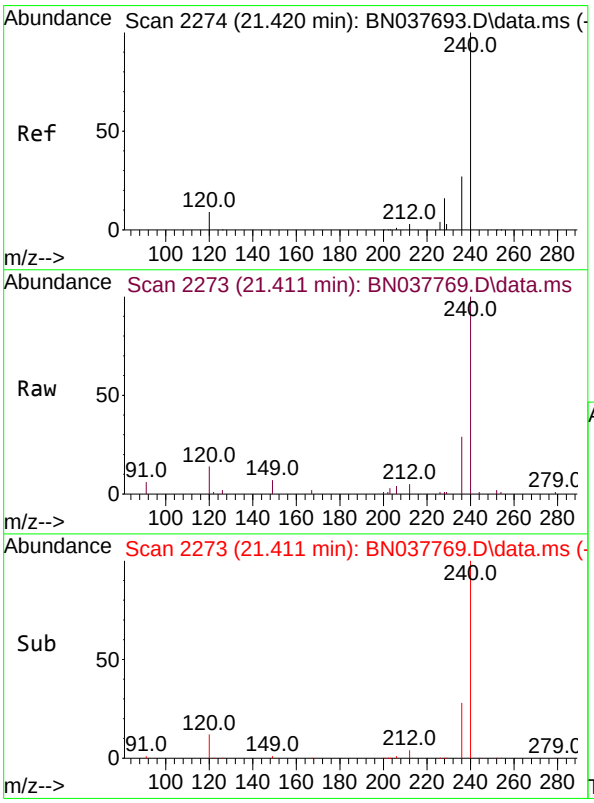
#27
Fluoranthene-d10
Concen: 0.366 ng
RT: 19.262 min Scan# 19
Delta R.T. -0.009 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

Tgt Ion:212 Resp: 14465

Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.2	18.2
104	8.6	6.9	10.3

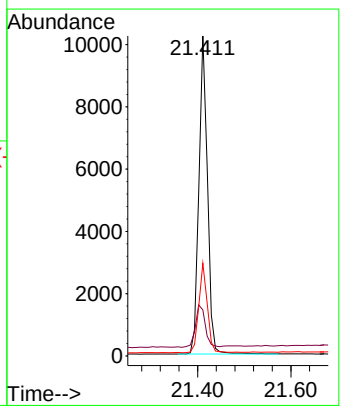


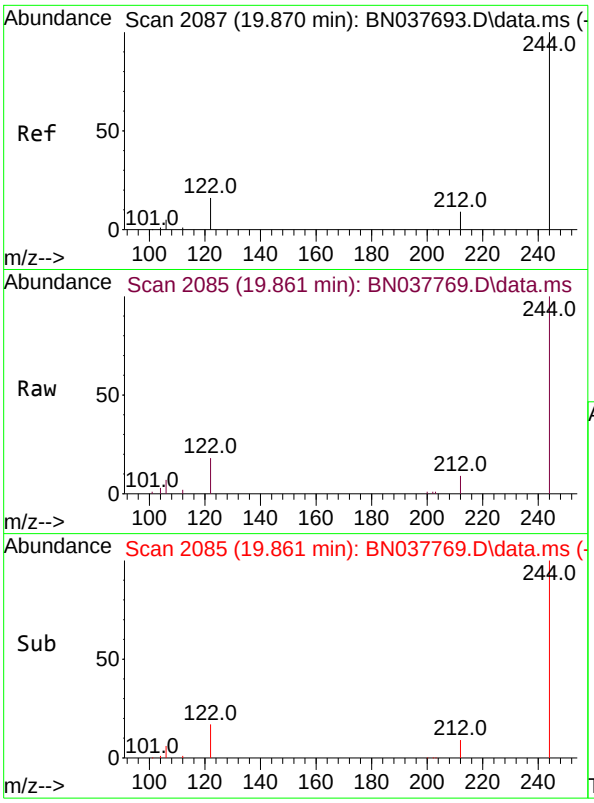


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion:240 Resp: 12936

Ion	Ratio	Lower	Upper
240	100		
120	14.4	9.2	13.8#
236	29.0	22.6	33.8



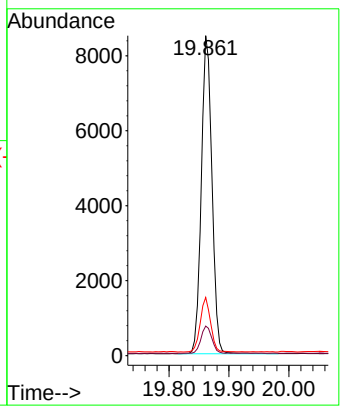


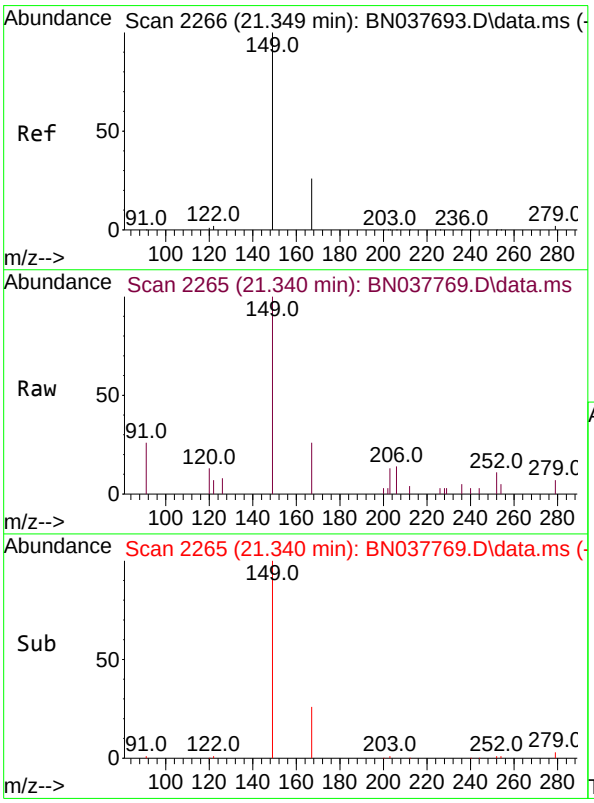
#31
Terphenyl-d14
Concen: 0.398 ng
RT: 19.861 min Scan# 20
Delta R.T. -0.009 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

Tgt Ion:244 Resp: 10438

Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.5	11.3
122	18.2	13.2	19.8

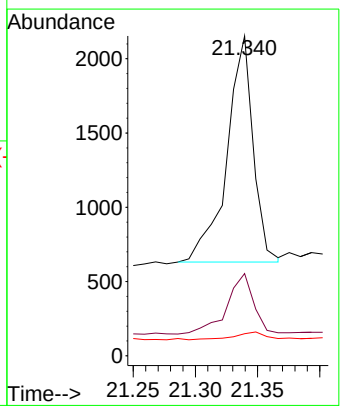


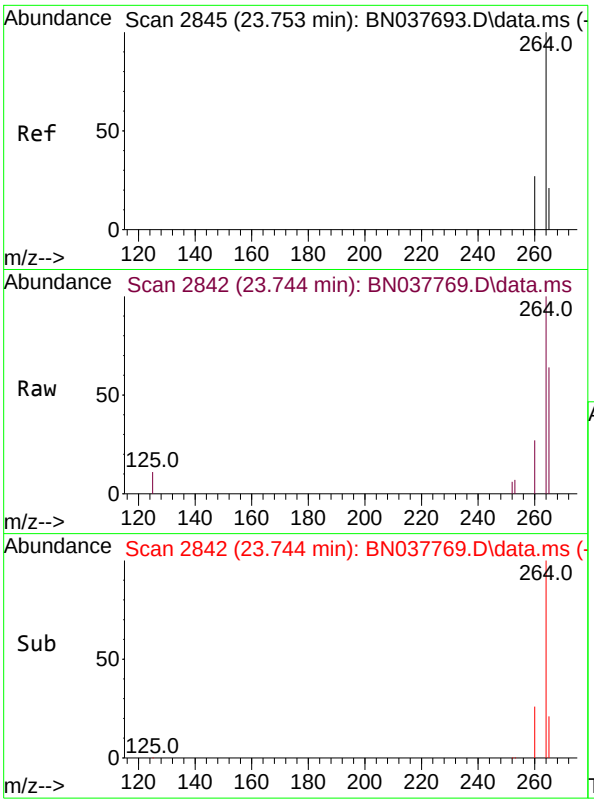


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.168 ng
RT: 21.340 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion:149 Resp: 2243

Ion	Ratio	Lower	Upper
149	100		
167	27.4	20.8	31.2
279	4.5	3.3	4.9



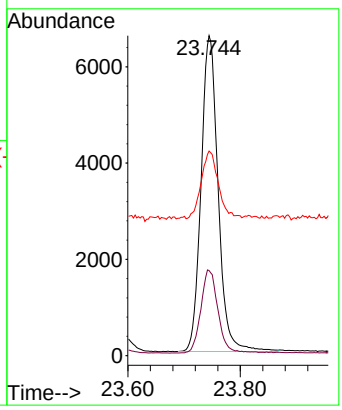


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

Tgt Ion:264 Resp: 13802

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.8	32.8
265	63.9	39.4	59.2#



Raw Data: **BN037770.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-08	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037770.D	1	09/15/25 12:00	09/18/25 09:23	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.40	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		108%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6450	7.833				
1146-65-2	Naphthalene-d8	17900	10.637				
15067-26-2	Acenaphthene-d10	8770	14.484				
1517-22-2	Phenanthrene-d10	17400	17.235				
1719-03-5	Chrysene-d12	16000	21.411				
1520-96-3	Perylene-d12	16200	23.744				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037770.D
Acq On : 18 Sep 2025 09:23
Operator : RC/JU
Sample : Q3097-08
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

Quant Time: Sep 18 10:46:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

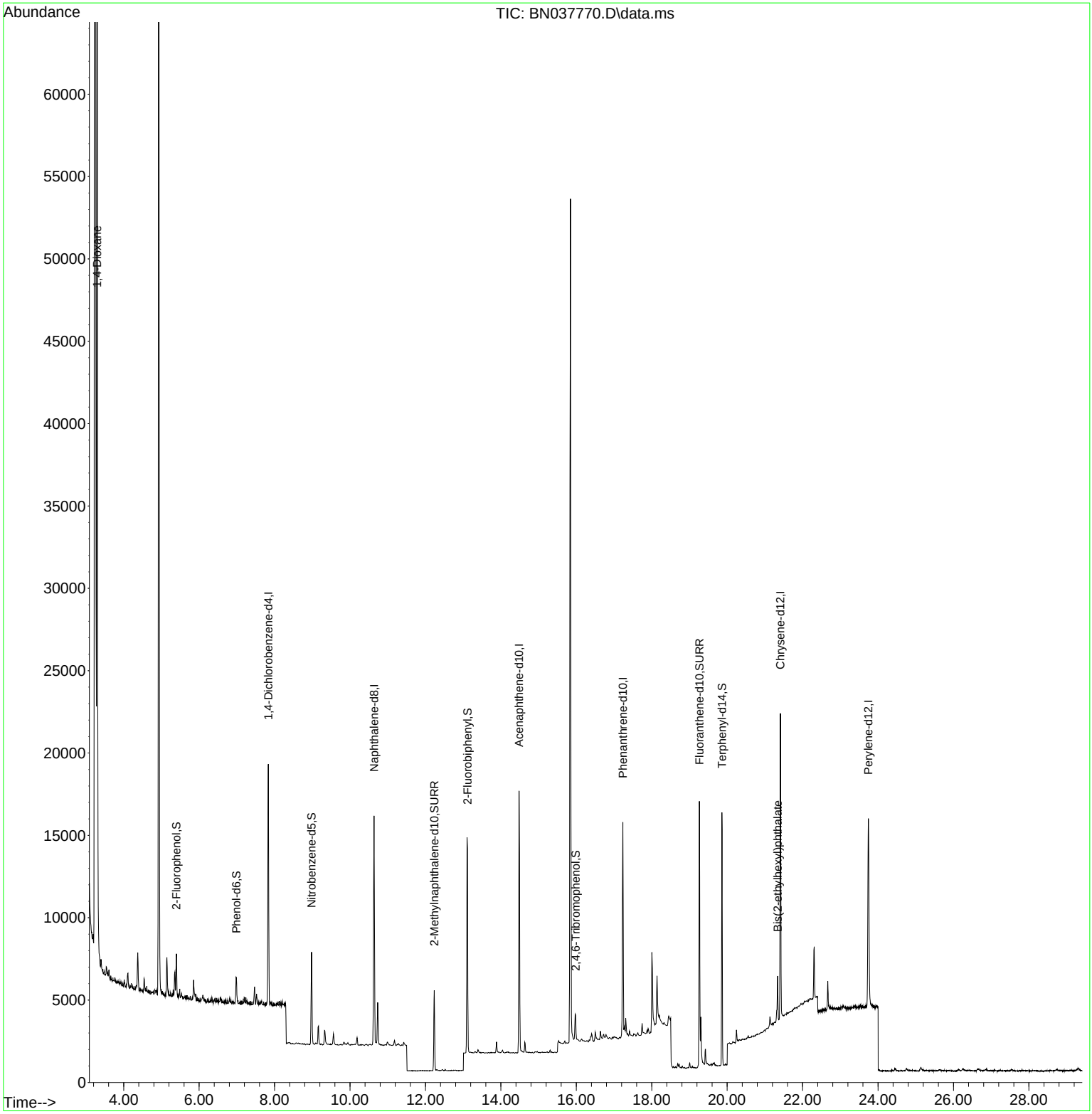
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6450	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	17916	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8773	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	17405	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	15996	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	16222	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1985	0.134	ng	0.00
5) Phenol-d6	6.988	99	1468	0.076	ng	0.00
8) Nitrobenzene-d5	8.982	82	4262	0.325	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	6501	0.274	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	1105	0.483	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	12202	0.333	ng	0.00
27) Fluoranthene-d10	19.267	212	17584	0.402	ng	0.00
31) Terphenyl-d14	19.861	244	14051	0.433	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	49729	7.402	ng	95
34) Bis(2-ethylhexyl)phtha...	21.340	149	3261	0.197	ng	100

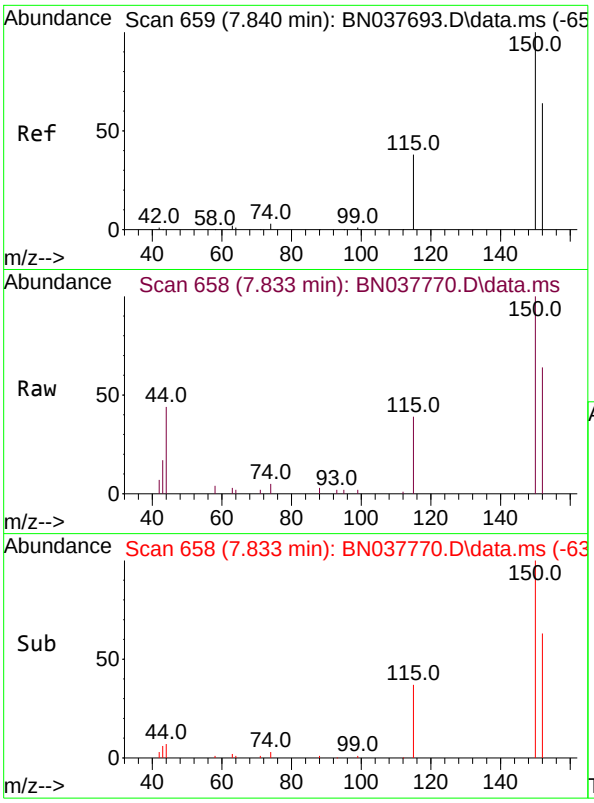
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037770.D
Acq On : 18 Sep 2025 09:23
Operator : RC/JU
Sample : Q3097-08
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

Quant Time: Sep 18 10:46:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



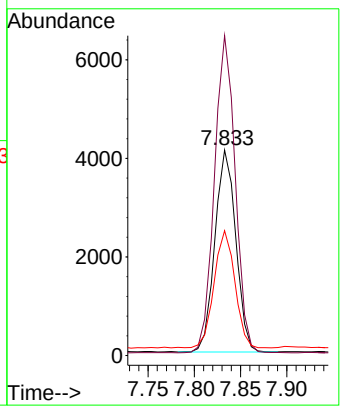


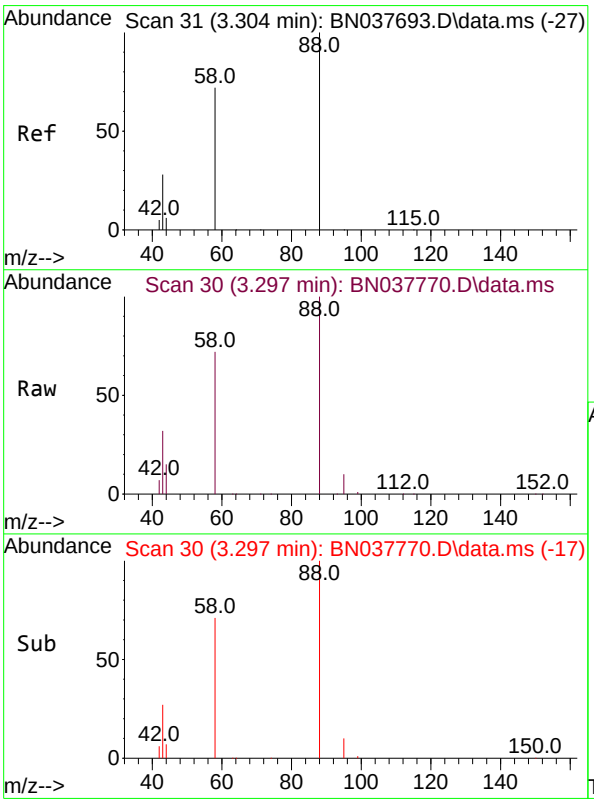
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

Tgt Ion:152 Resp: 6450

Ion	Ratio	Lower	Upper
152	100		
150	155.7	124.5	186.7
115	60.7	49.2	73.8

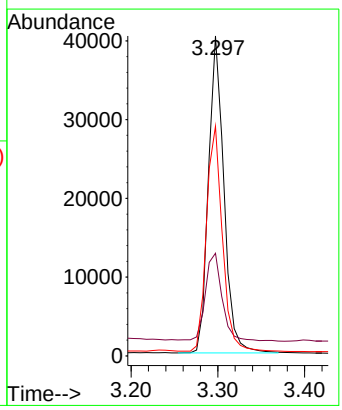


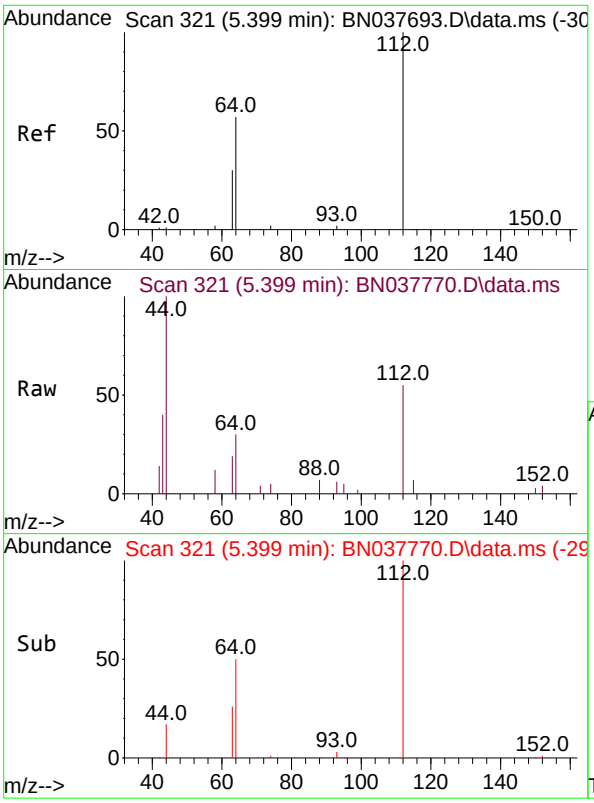


#2
1,4-Dioxane
Concen: 7.402 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Tgt Ion: 88 Resp: 49729

Ion	Ratio	Lower	Upper
88	100		
43	30.2	26.8	40.2
58	73.0	61.9	92.9



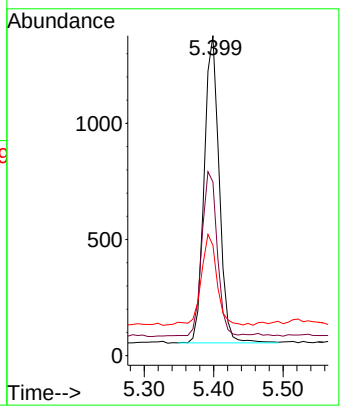


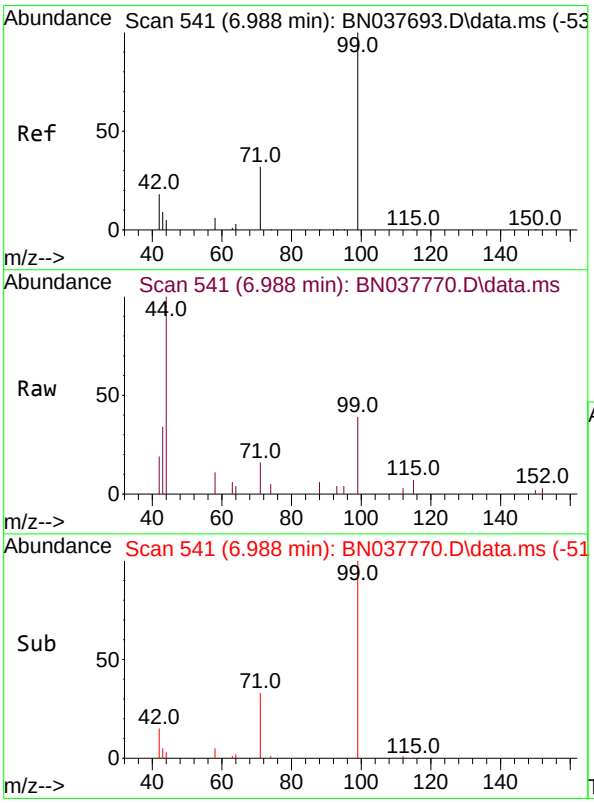
#4
2-Fluorophenol
Concen: 0.134 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

Tgt Ion:112 Resp: 1985

Ion	Ratio	Lower	Upper
112	100		
64	55.7	44.9	67.3
63	30.8	24.7	37.1

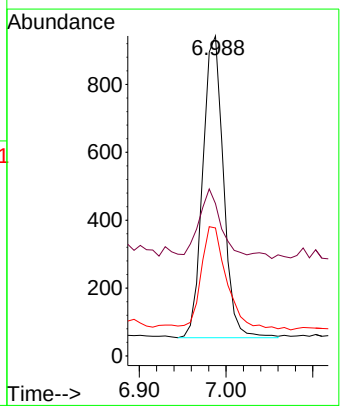


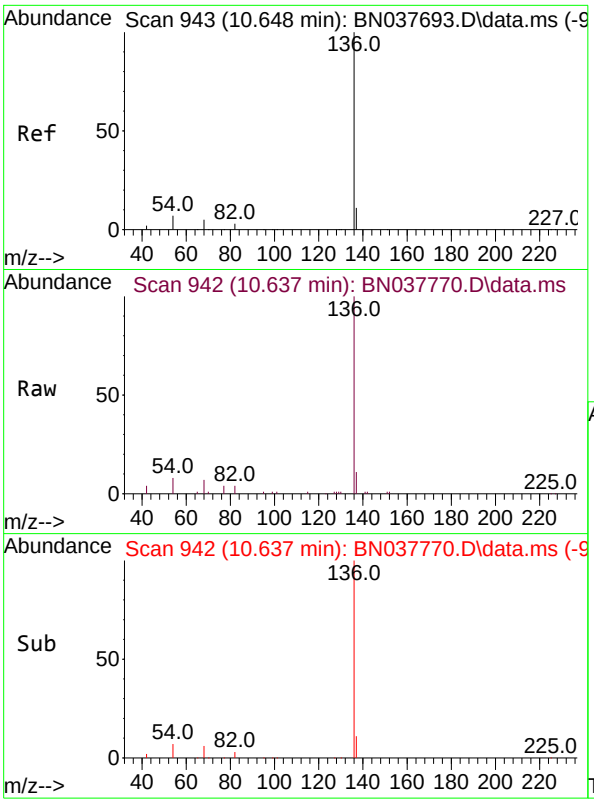


#5
Phenol-d6
Concen: 0.076 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Tgt Ion: 99 Resp: 1468

Ion	Ratio	Lower	Upper
99	100		
42	21.8	16.6	24.8
71	43.0	26.7	40.1#



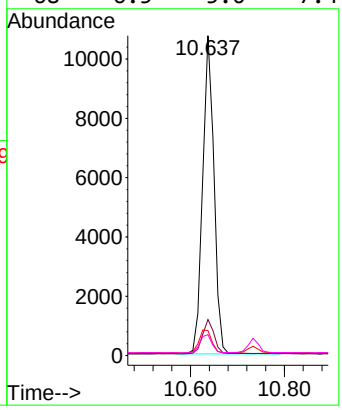


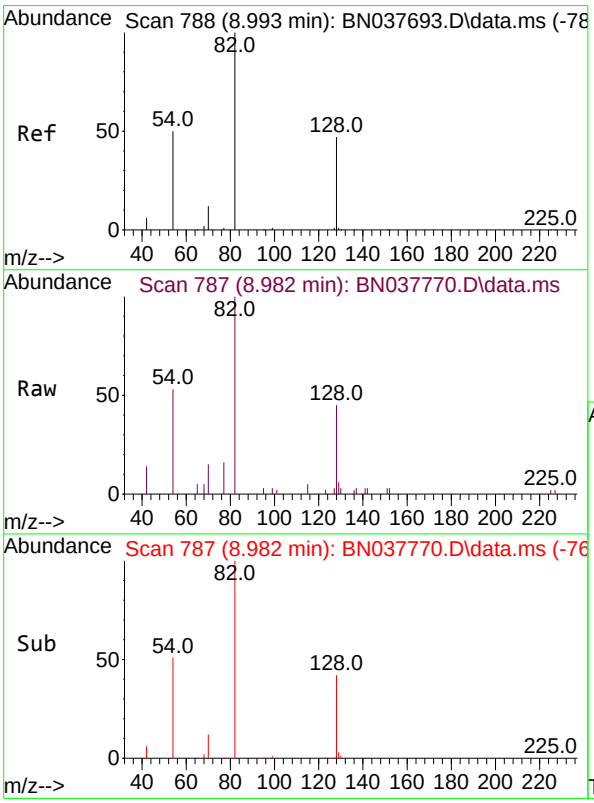
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

Tgt Ion:136 Resp: 17916

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	7.8	6.3	9.5
68	6.5	5.0	7.4

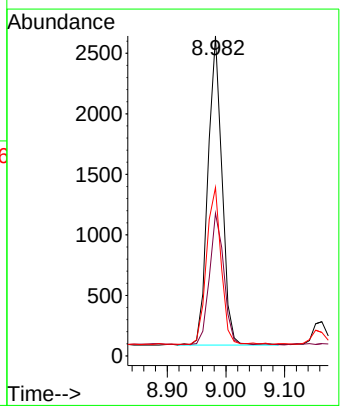


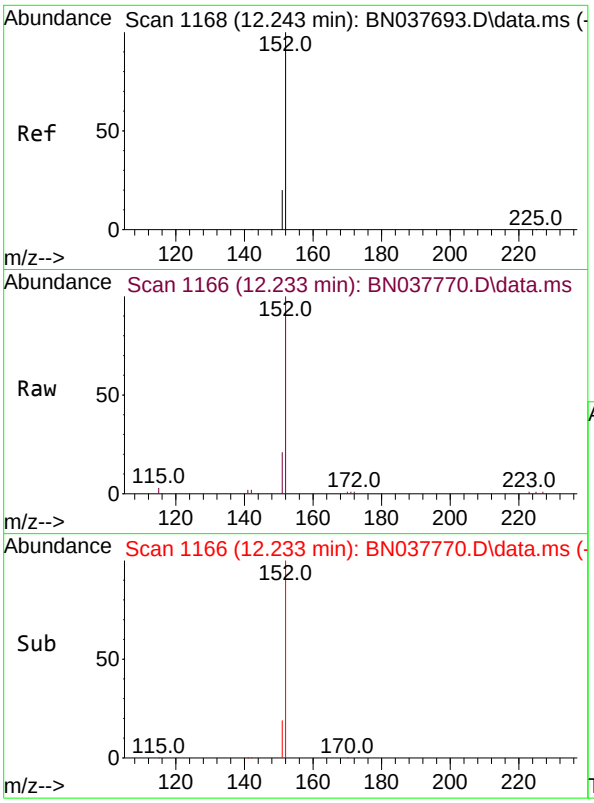


#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Tgt Ion: 82 Resp: 4262

Ion	Ratio	Lower	Upper
82	100		
128	44.6	38.3	57.5
54	52.6	41.4	62.2



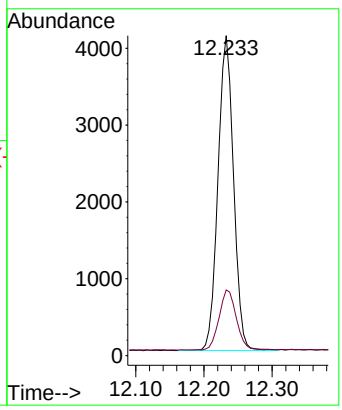


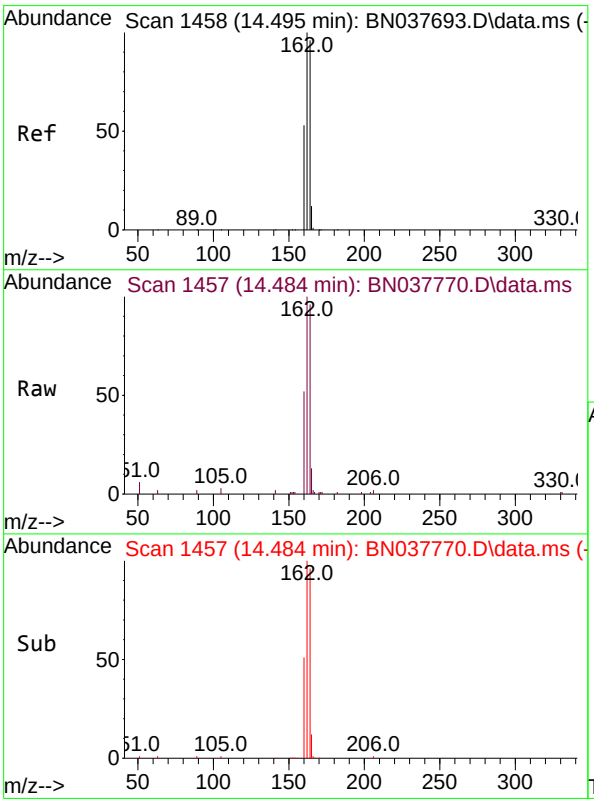
#11
2-Methylnaphthalene-d10
Concen: 0.274 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

Tgt Ion:152 Resp: 6501

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.0	25.6

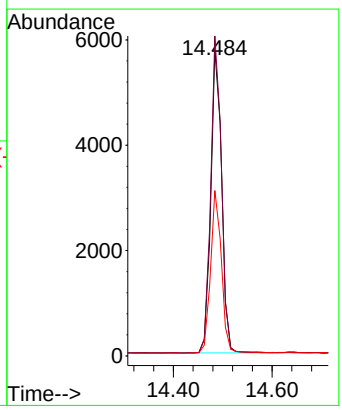


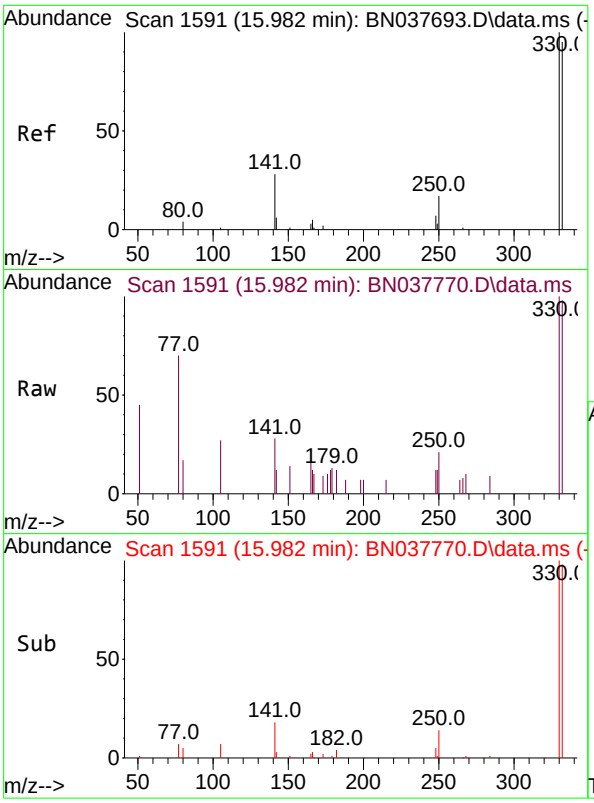


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Tgt Ion:164 Resp: 8773

Ion	Ratio	Lower	Upper
164	100		
162	104.6	83.1	124.7
160	54.0	44.3	66.5



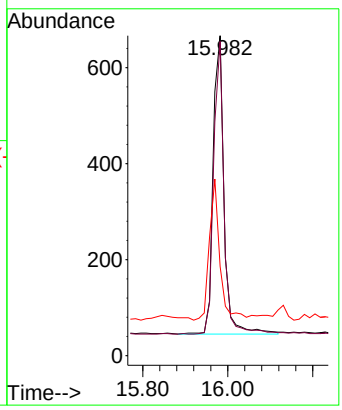


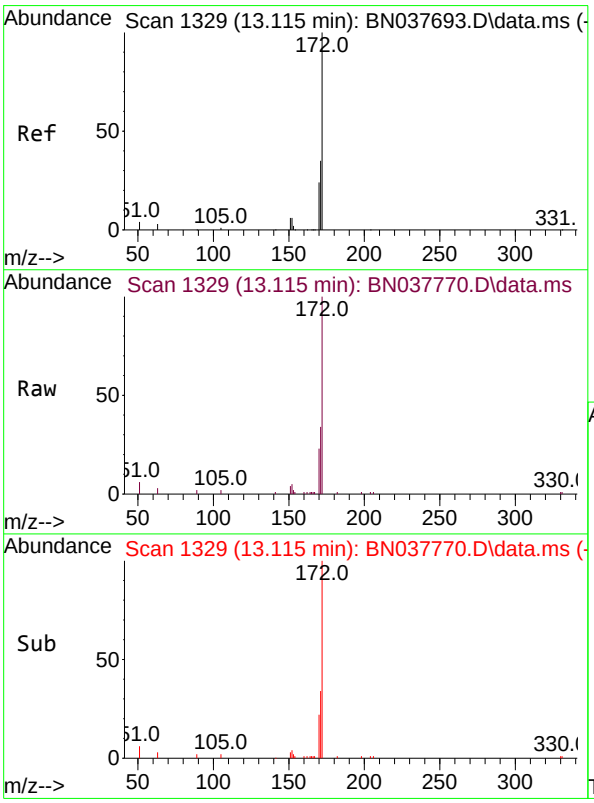
#14
2,4,6-Tribromophenol
Concen: 0.483 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

Tgt Ion:330 Resp: 1105

Ion	Ratio	Lower	Upper
330	100		
332	93.5	75.3	112.9
141	45.4	35.0	52.4

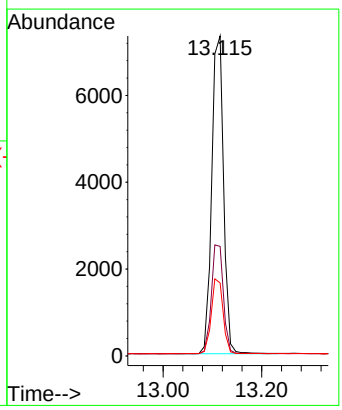


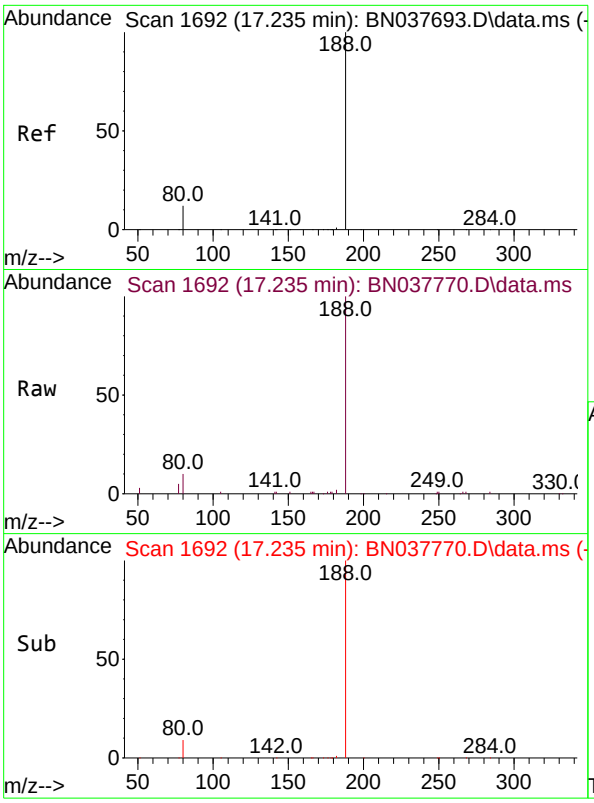


#15
2-Fluorobiphenyl
Concen: 0.333 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Tgt Ion:172 Resp: 12202

Ion	Ratio	Lower	Upper
172	100		
171	34.2	28.6	43.0
170	22.8	19.8	29.8



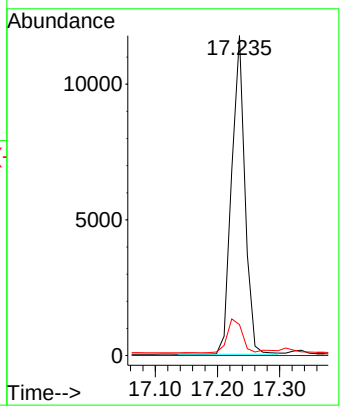


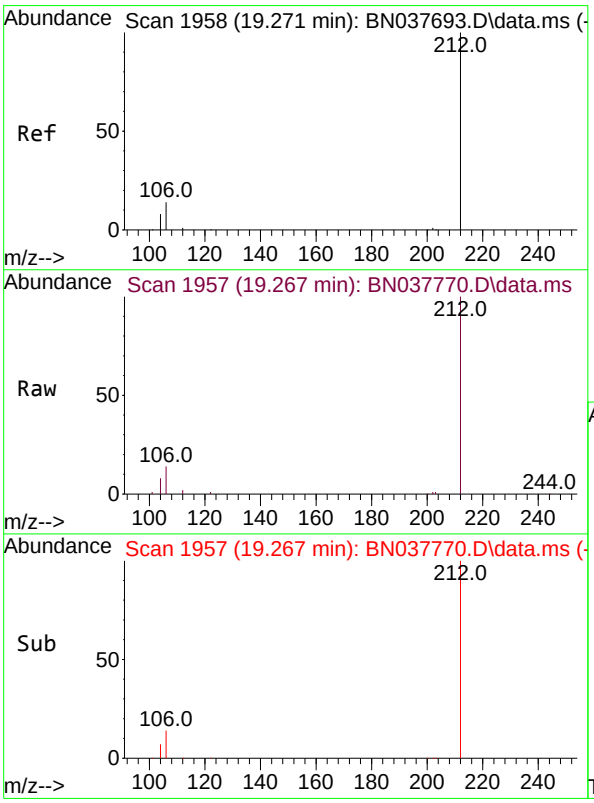
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

Tgt Ion:188 Resp: 17405

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.7	10.6	15.8#

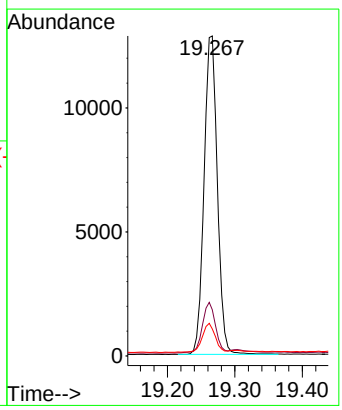


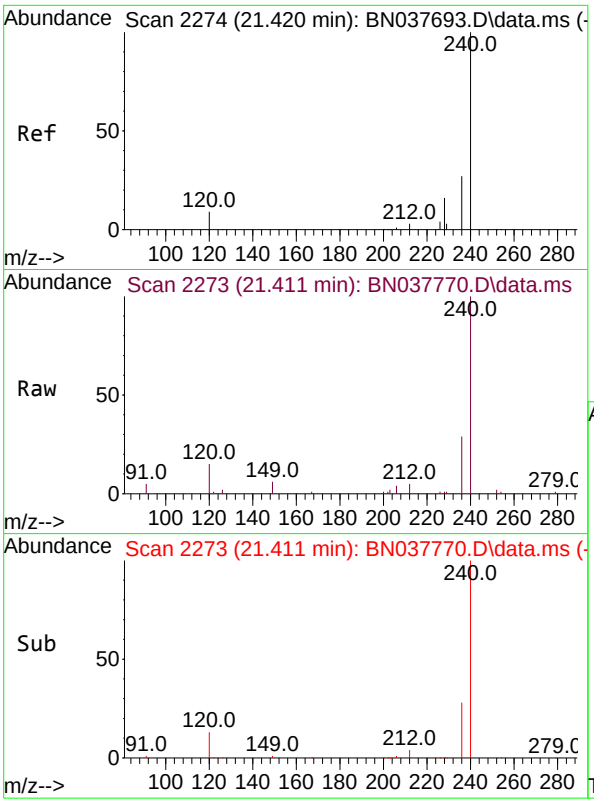


#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 19.267 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Tgt Ion:212 Resp: 17584

Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	8.9	6.9	10.3



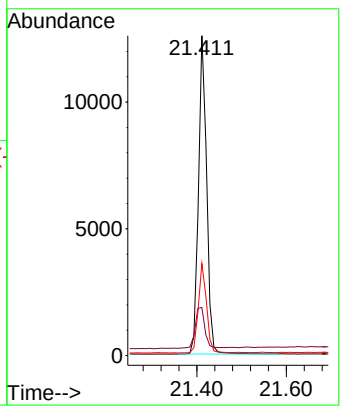


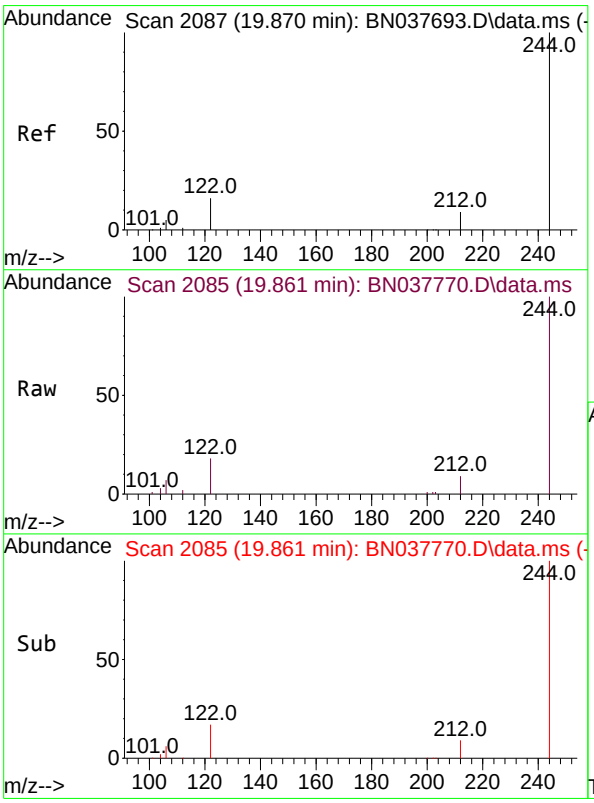
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

Tgt Ion:240 Resp: 15996

Ion	Ratio	Lower	Upper
240	100		
120	15.0	9.2	13.8#
236	28.8	22.6	33.8

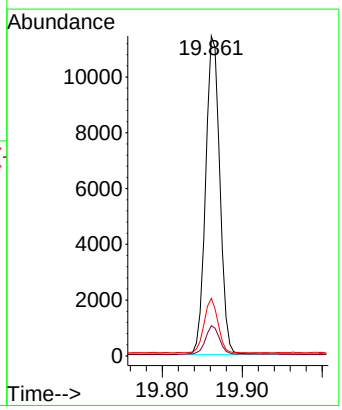


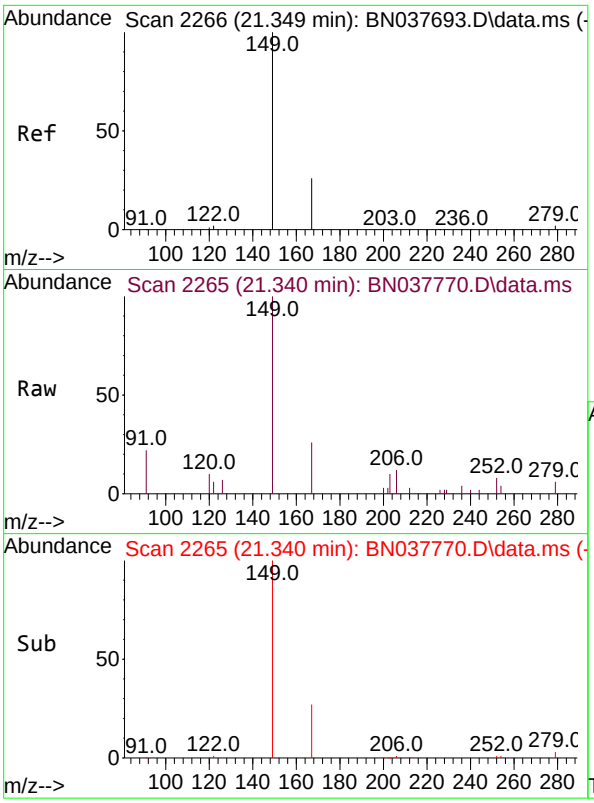


#31
Terphenyl-d14
Concen: 0.433 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Tgt Ion:244 Resp: 14051

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	18.0	13.2	19.8



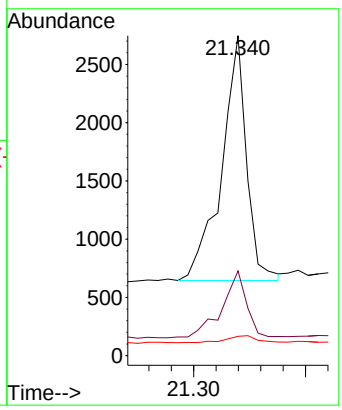


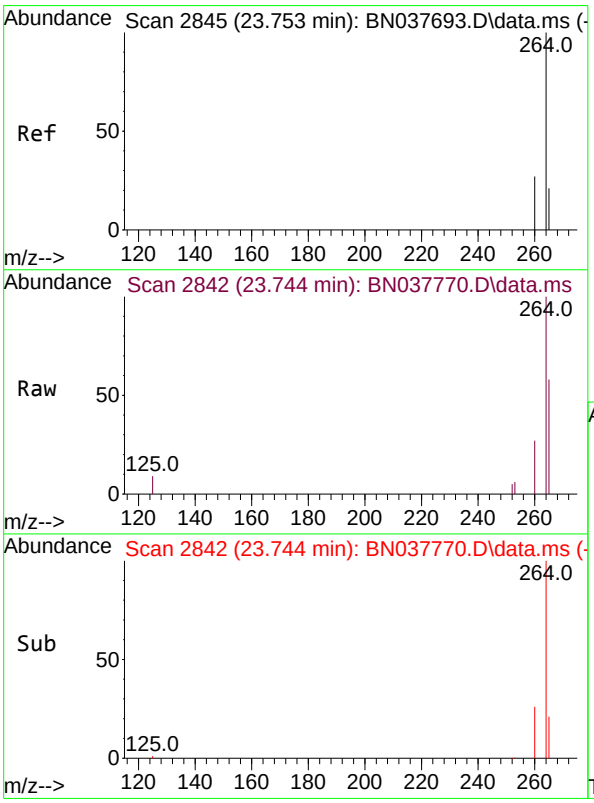
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.197 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

Tgt Ion:149 Resp: 3261

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.8	31.2
279	3.5	3.3	4.9

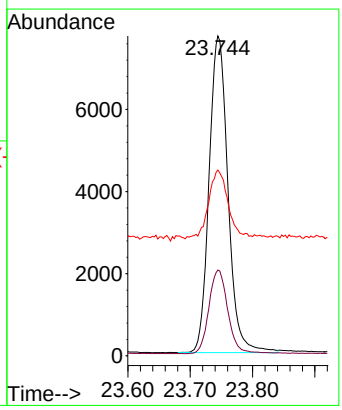




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Tgt Ion:264 Resp: 16222

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.8	32.8
265	58.1	39.4	59.2



Raw Data: **BN037790.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D2-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-08DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037790.D	5	09/15/25 12:00	09/18/25 23:03	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	8.20	D	0.33	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6110	7.833				
1146-65-2	Naphthalene-d8	16500	10.637				
15067-26-2	Acenaphthene-d10	7570	14.484				
1517-22-2	Phenanthrene-d10	14900	17.236				
1719-03-5	Chrysene-d12	12900	21.402				
1520-96-3	Perylene-d12	12900	23.739				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037790.D
Acq On : 18 Sep 2025 23:03
Operator : RC/JU
Sample : Q3097-08DL 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

Quant Time: Sep 19 04:12:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

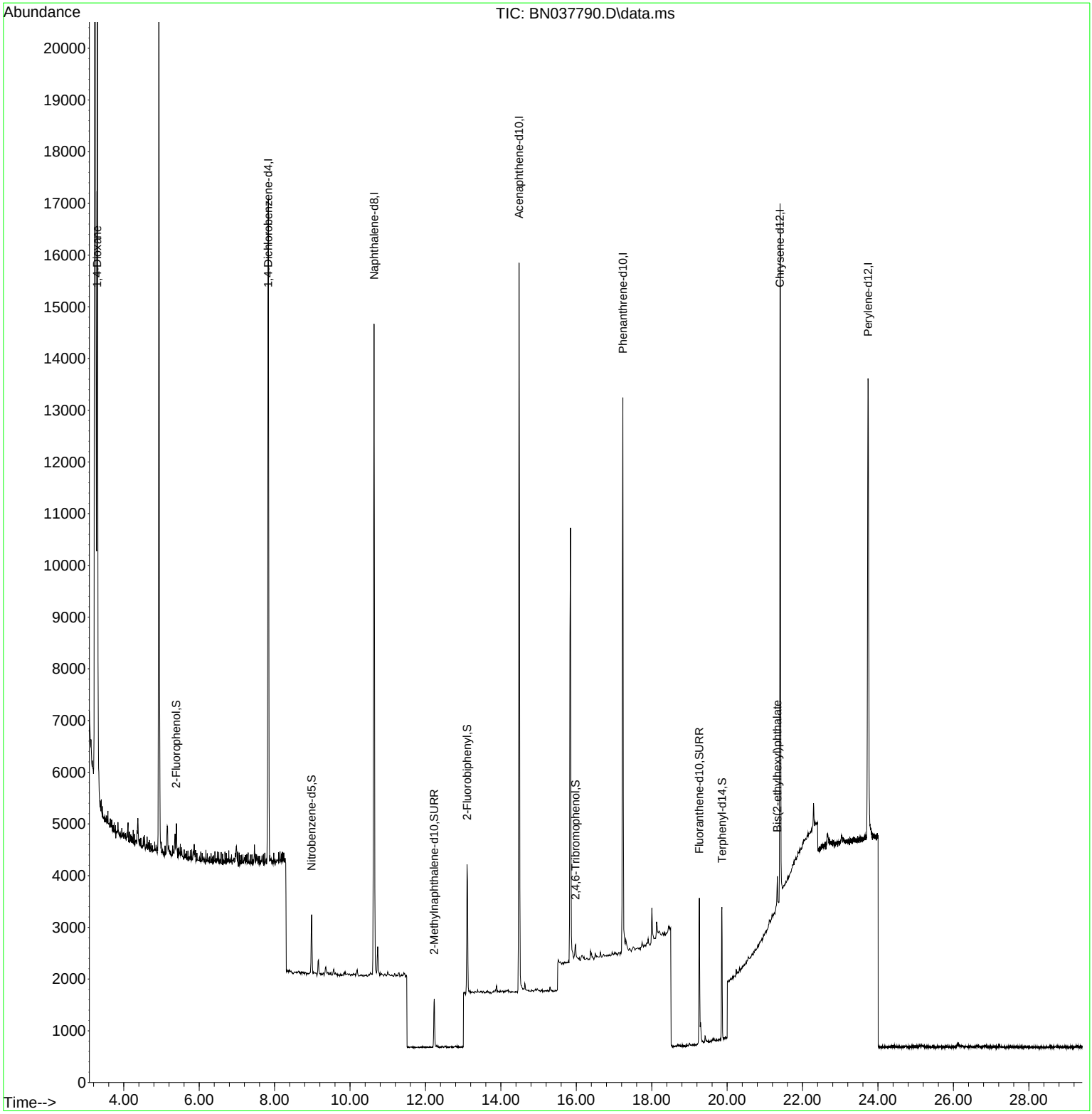
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6110	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	16499	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7574	0.400	ng	-0.01
19) Phenanthrene-d10	17.236	188	14919	0.400	ng	# 0.00
29) Chrysene-d12	21.402	240	12875	0.400	ng	#-0.02
35) Perylene-d12	23.739	264	12853	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	411	0.029	ng	0.00
5) Phenol-d6	6.988	99	305	0.017	ng	0.00
8) Nitrobenzene-d5	8.982	82	905	0.075	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	1261	0.058	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	201	0.102	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	2308	0.073	ng	-0.01
27) Fluoranthene-d10	19.262	212	3086	0.082	ng	0.00
31) Terphenyl-d14	19.861	244	2426	0.093	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	10394	1.633	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	764	0.057	ng	98

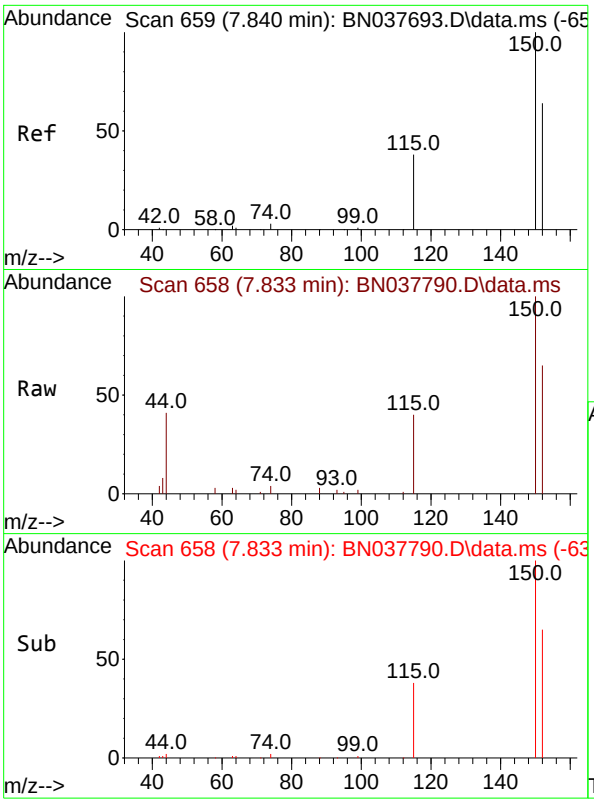
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037790.D
Acq On : 18 Sep 2025 23:03
Operator : RC/JU
Sample : Q3097-08DL 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

Quant Time: Sep 19 04:12:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



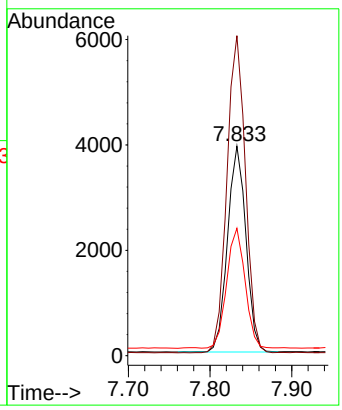


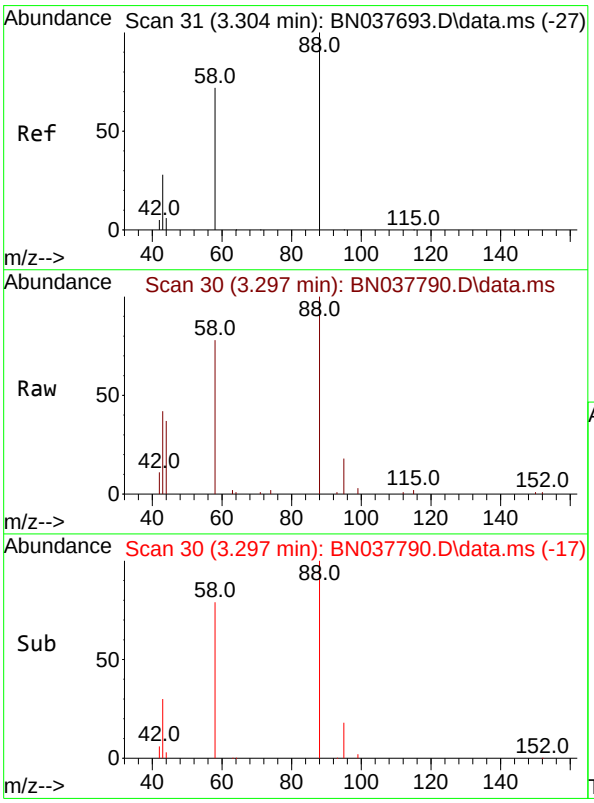
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

Tgt Ion:152 Resp: 6110

Ion	Ratio	Lower	Upper
152	100		
150	152.8	124.5	186.7
115	60.8	49.2	73.8

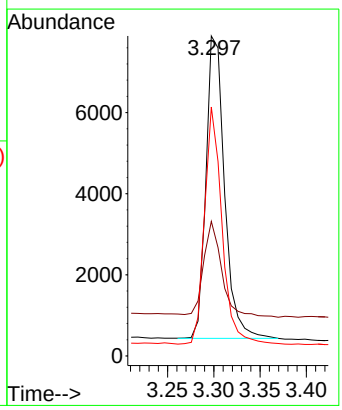


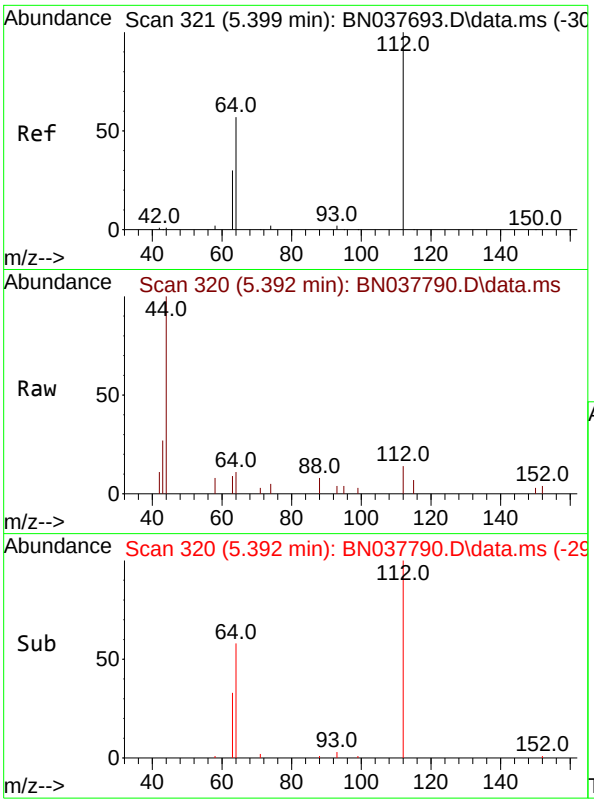


#2
1,4-Dioxane
Concen: 1.633 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion: 88 Resp: 10394

Ion	Ratio	Lower	Upper
88	100		
43	31.4	26.8	40.2
58	73.8	61.9	92.9



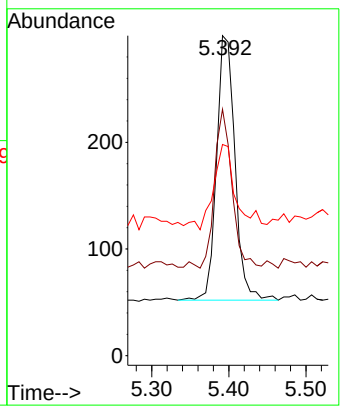


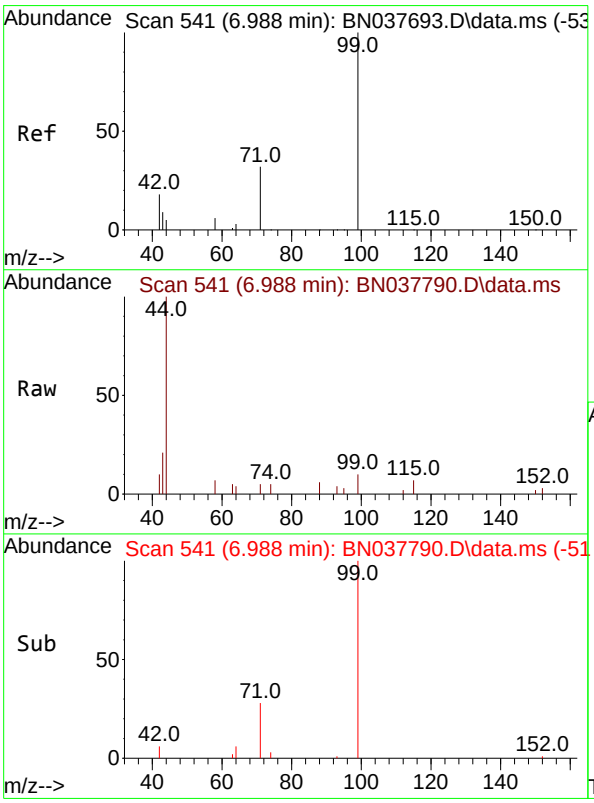
#4
2-Fluorophenol
Concen: 0.029 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

Tgt Ion:112 Resp: 411

Ion	Ratio	Lower	Upper
112	100		
64	56.4	44.9	67.3
63	38.7	24.7	37.1#

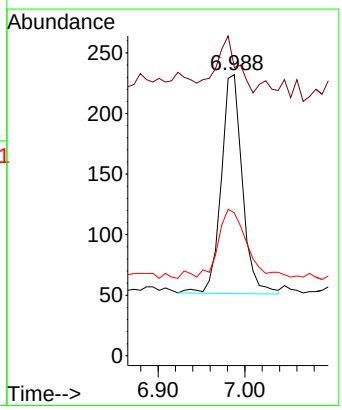


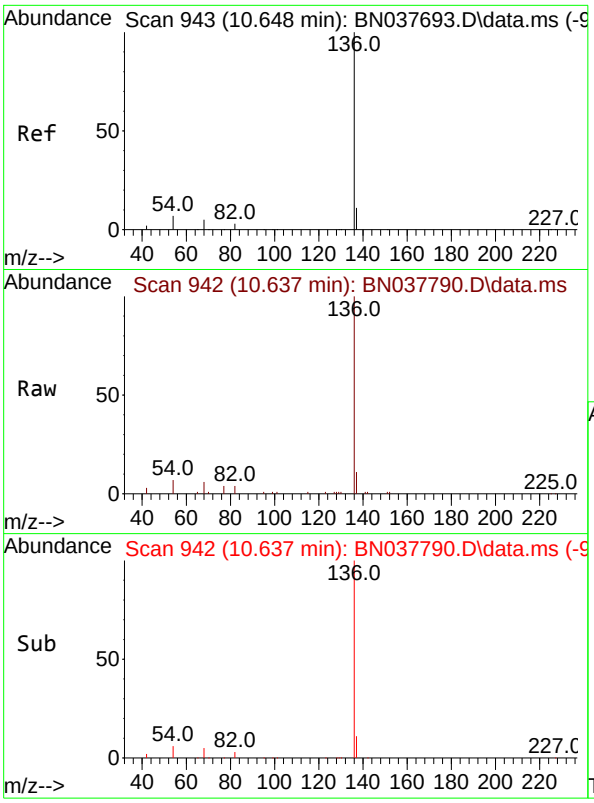


#5
Phenol-d6
Concen: 0.017 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion: 99 Resp: 305

Ion	Ratio	Lower	Upper
99	100		
42	25.6	16.6	24.8#
71	43.9	26.7	40.1#



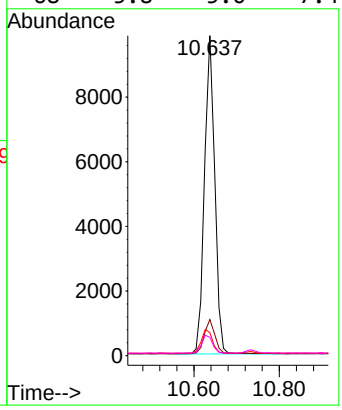


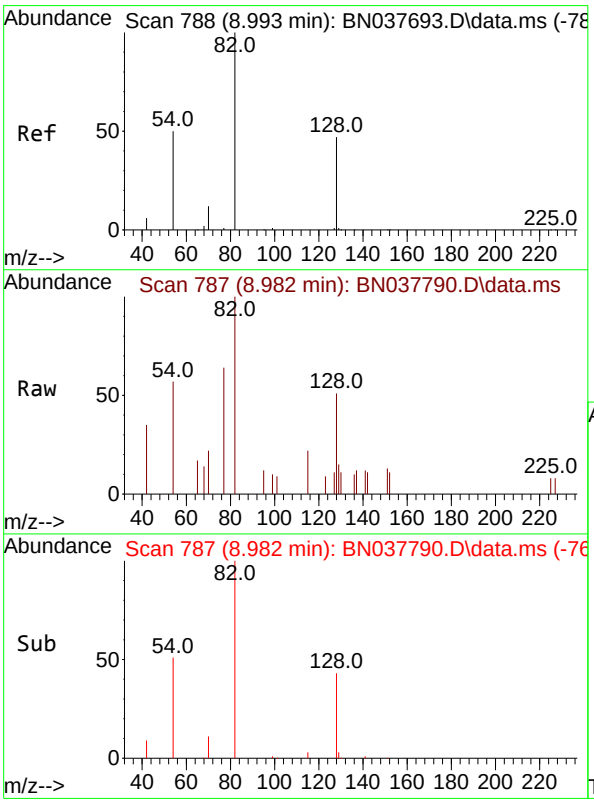
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

Tgt Ion:136 Resp: 16499

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	7.2	6.3	9.5
68	5.8	5.0	7.4

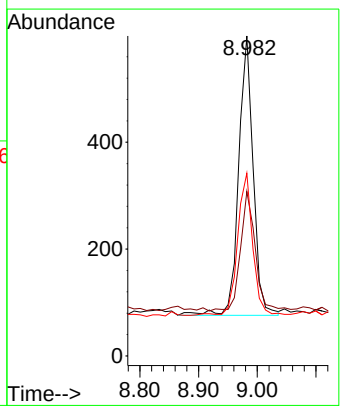


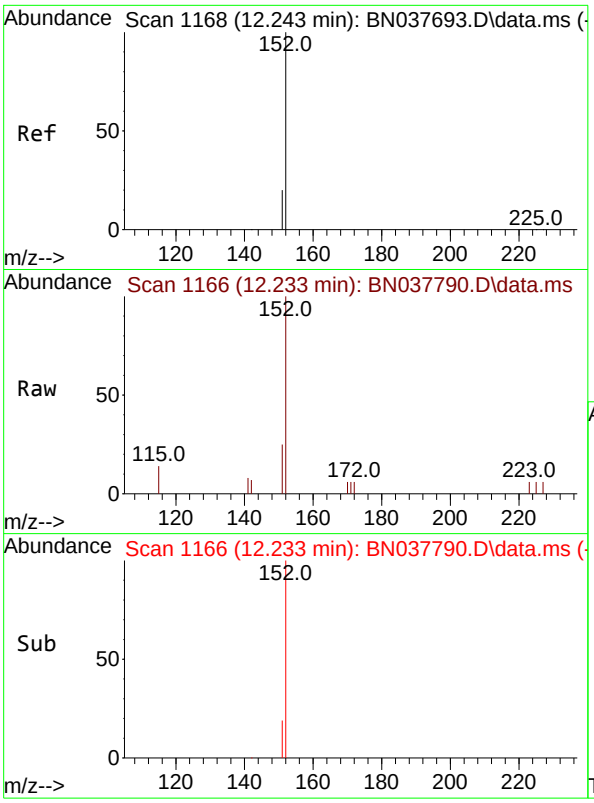


#8
Nitrobenzene-d5
Concen: 0.075 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion: 82 Resp: 905

Ion	Ratio	Lower	Upper
82	100		
128	51.4	38.3	57.5
54	57.1	41.4	62.2



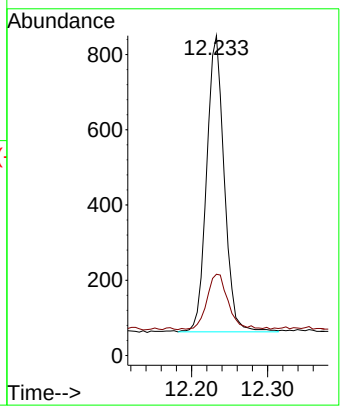


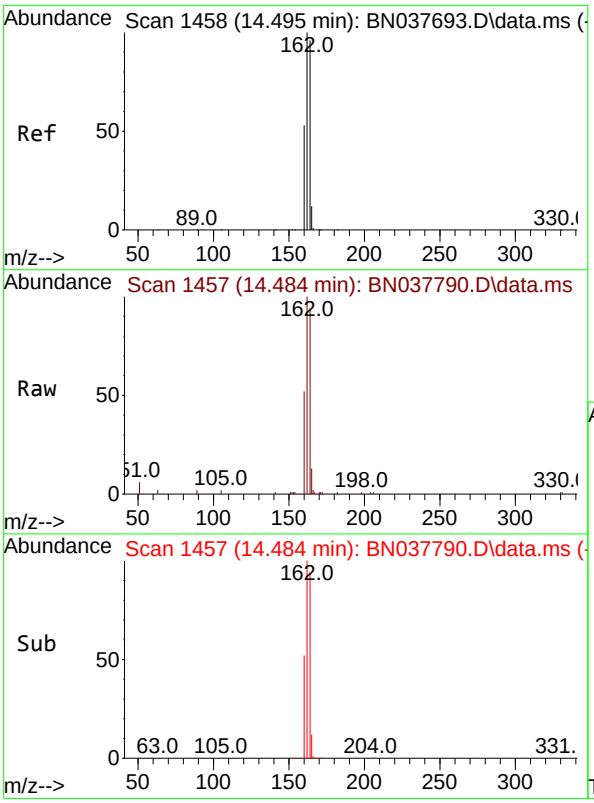
#11
2-Methylnaphthalene-d10
Concen: 0.058 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

Tgt Ion:152 Resp: 1261

Ion	Ratio	Lower	Upper
152	100		
151	22.8	17.0	25.6

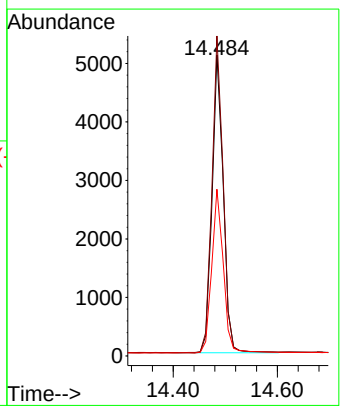


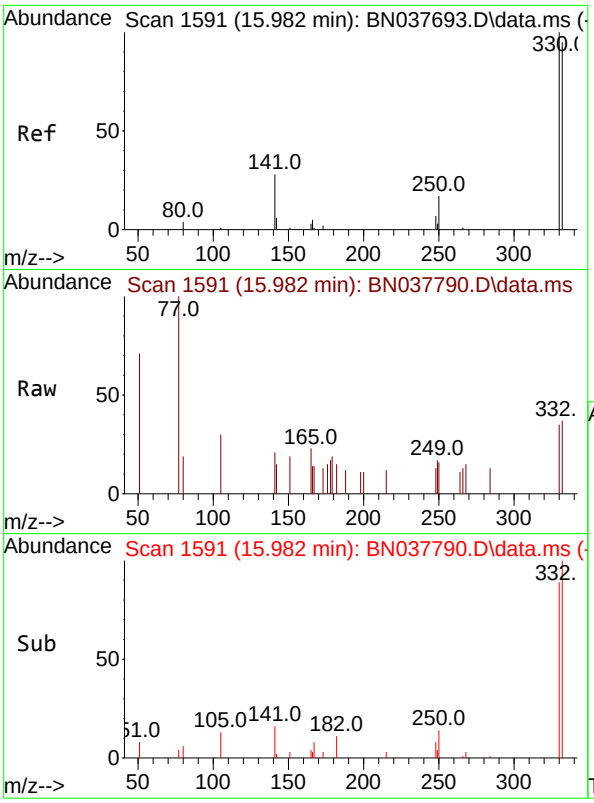


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion:164 Resp: 7574

Ion	Ratio	Lower	Upper
164	100		
162	106.3	83.1	124.7
160	55.4	44.3	66.5



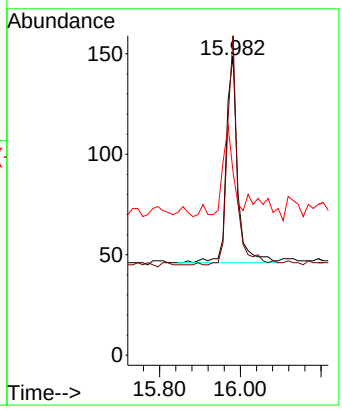


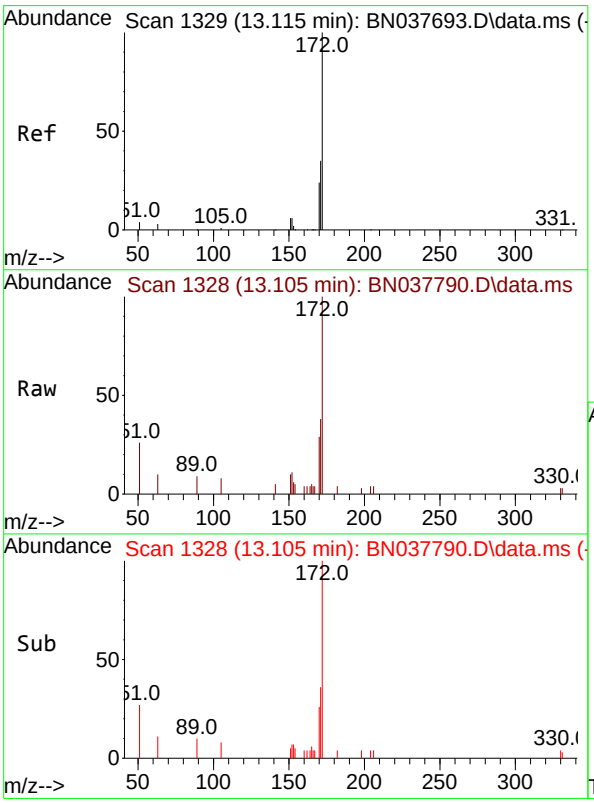
#14
2,4,6-Tribromophenol
Concen: 0.102 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

Tgt Ion:330 Resp: 201

Ion	Ratio	Lower	Upper
330	100		
332	96.5	75.3	112.9
141	41.3	35.0	52.4

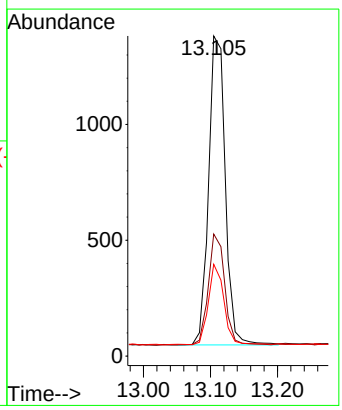


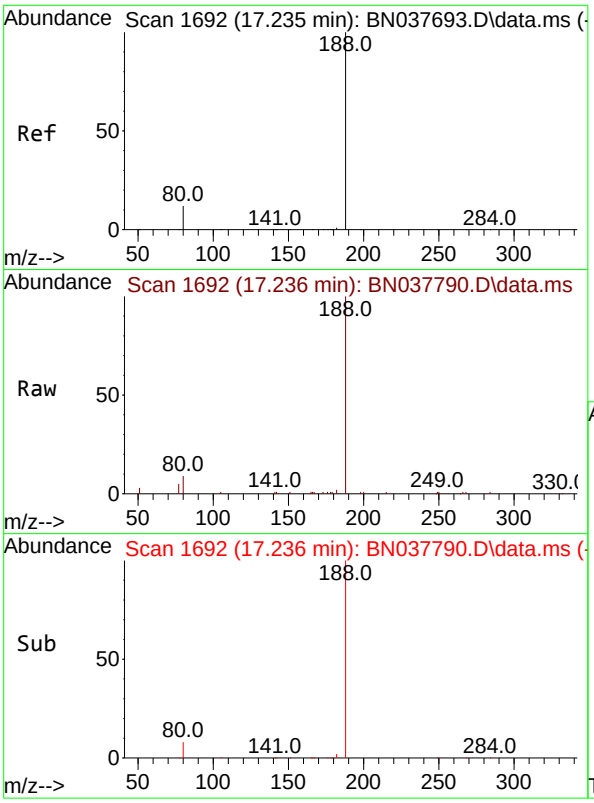


#15
2-Fluorobiphenyl
Concen: 0.073 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion:172 Resp: 2308

Ion	Ratio	Lower	Upper
172	100		
171	38.1	28.6	43.0
170	28.7	19.8	29.8



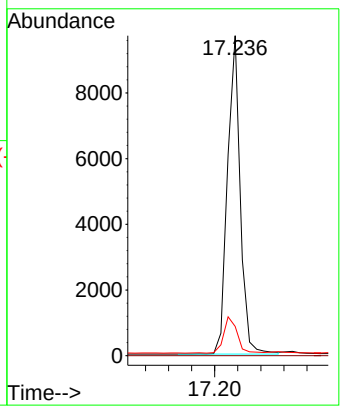


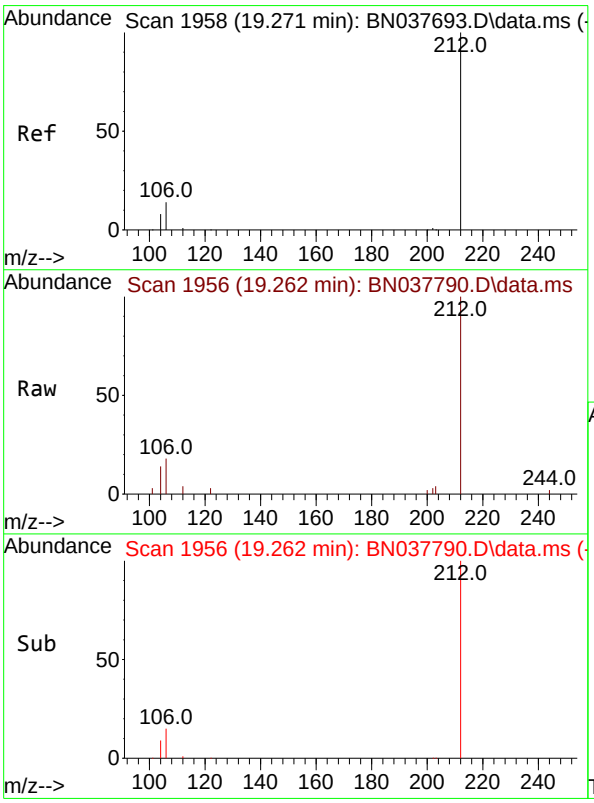
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

Tgt Ion:188 Resp: 14919

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.1	10.6	15.8#

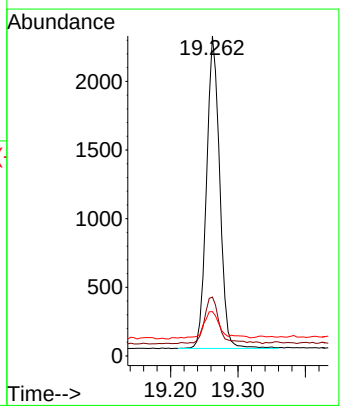


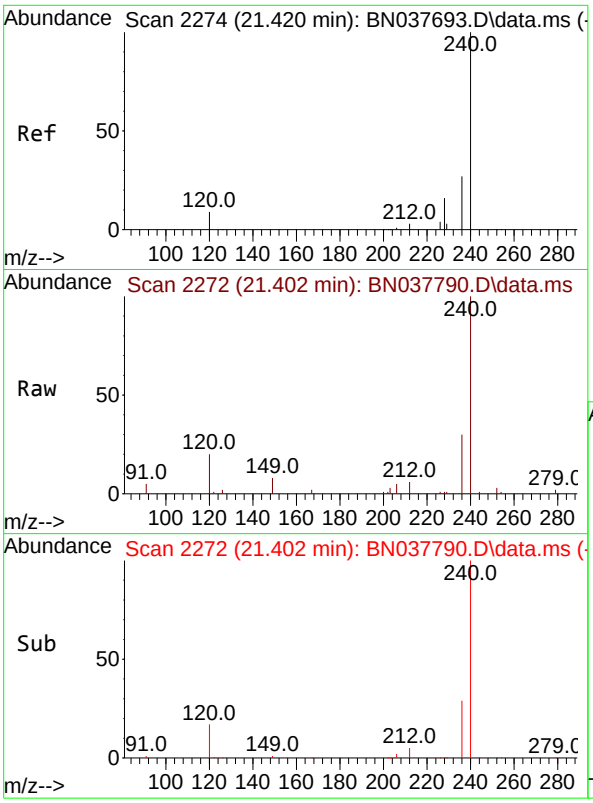


#27
Fluoranthene-d10
Concen: 0.082 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion:212 Resp: 3086

Ion	Ratio	Lower	Upper
212	100		
106	16.8	12.2	18.2
104	10.9	6.9	10.3#



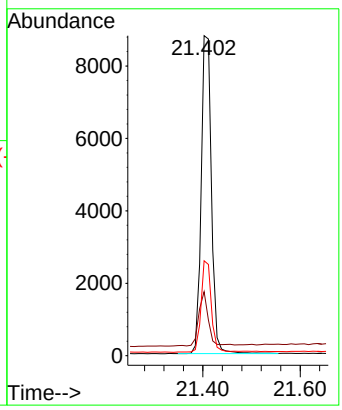


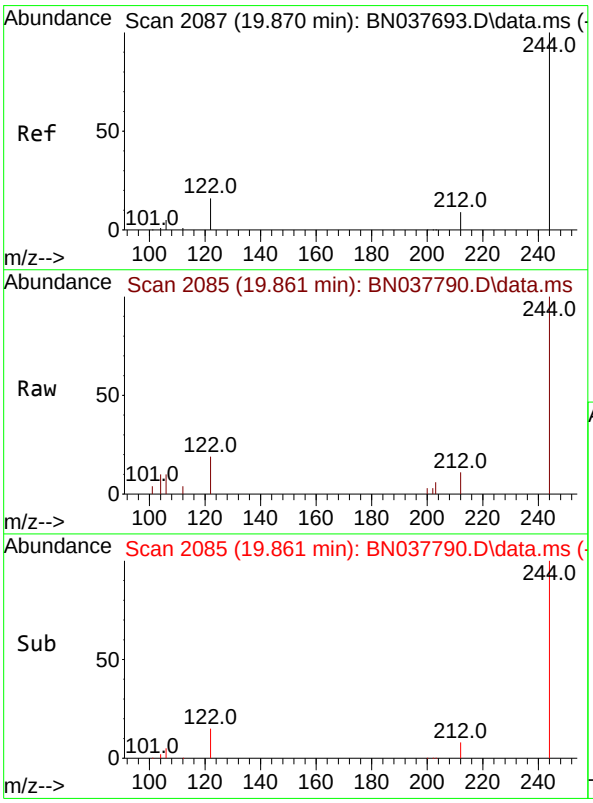
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

Tgt Ion:240 Resp: 12875

Ion	Ratio	Lower	Upper
240	100		
120	20.0	9.2	13.8#
236	29.6	22.6	33.8

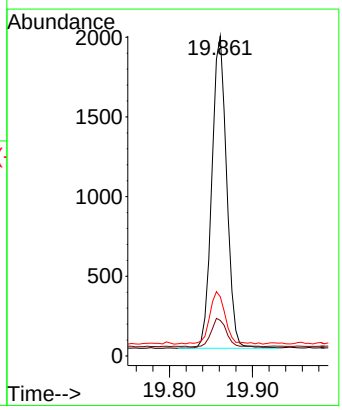


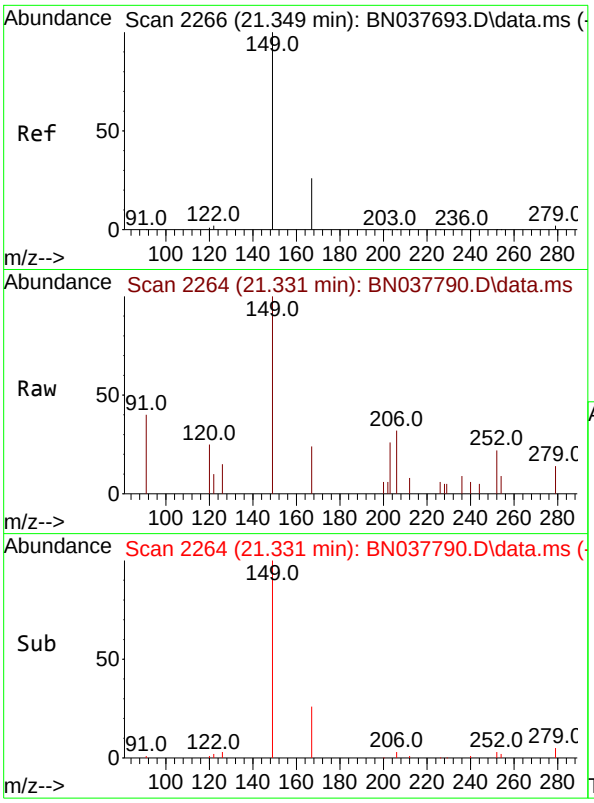


#31
Terphenyl-d14
Concen: 0.093 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion:244 Resp: 2426

Ion	Ratio	Lower	Upper
244	100		
212	11.1	7.5	11.3
122	18.5	13.2	19.8



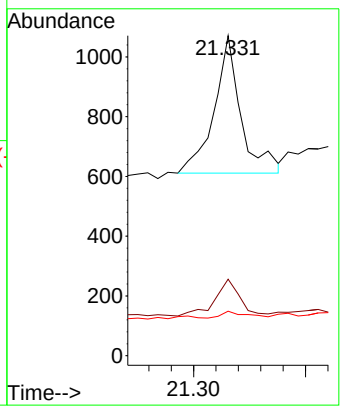


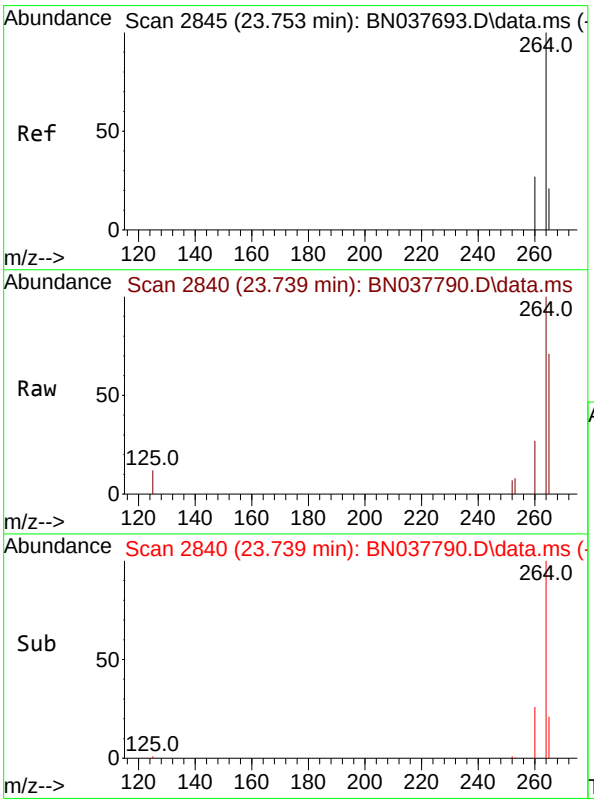
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.057 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

Tgt Ion:149 Resp: 764

Ion	Ratio	Lower	Upper
149	100		
167	24.9	20.8	31.2
279	4.6	3.3	4.9

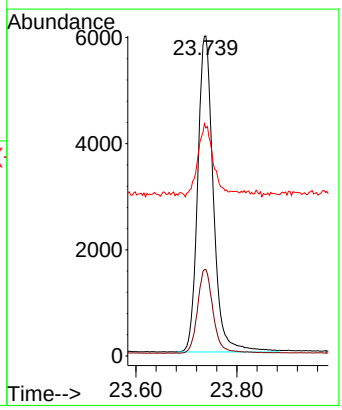




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion:264 Resp: 12853

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.8	32.8
265	71.2	39.4	59.2#



Raw Data: **BN037778.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE108D1-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-09	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037778.D	1	09/15/25 12:00	09/18/25 15:47	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.80		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		104%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6090	7.833				
1146-65-2	Naphthalene-d8	16100	10.637				
15067-26-2	Acenaphthene-d10	7260	14.484				
1517-22-2	Phenanthrene-d10	13900	17.235				
1719-03-5	Chrysene-d12	12100	21.411				
1520-96-3	Perylene-d12	11400	23.747				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037778.D
Acq On : 18 Sep 2025 15:47
Operator : RC/JU
Sample : Q3097-09
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

Quant Time: Sep 18 16:12:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

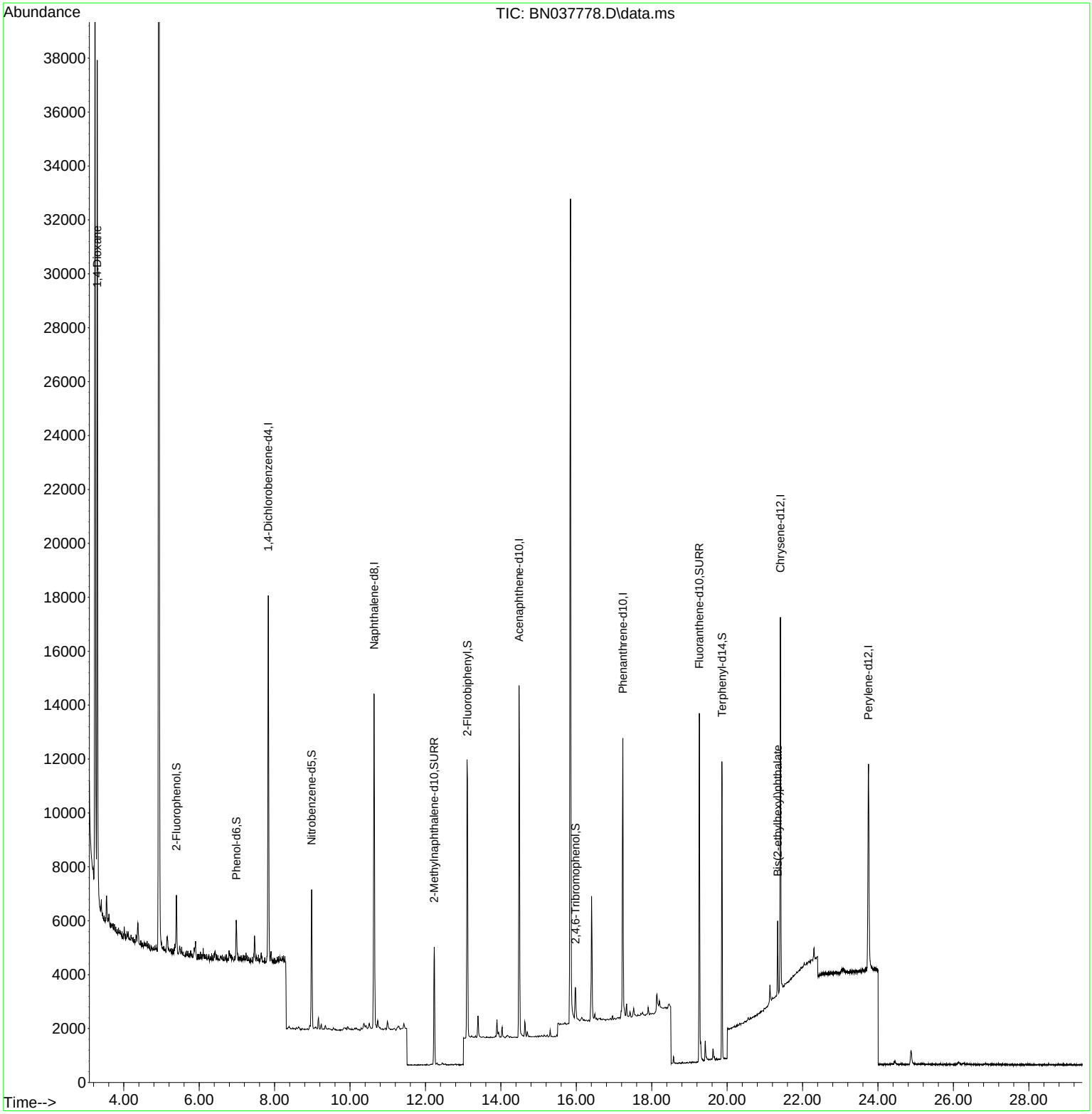
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6091	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	16121	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7264	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	13940	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	12095	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	11352	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1798	0.129	ng	0.00
5) Phenol-d6	6.988	99	1299	0.072	ng	0.00
8) Nitrobenzene-d5	8.982	82	4001	0.339	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	5837	0.273	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	832	0.439	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	9398	0.309	ng	0.00
27) Fluoranthene-d10	19.262	212	13906	0.397	ng	0.00
31) Terphenyl-d14	19.861	244	10262	0.418	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	17609	2.776	ng	95
34) Bis(2-ethylhexyl)phtha...	21.339	149	2423	0.194	ng	99

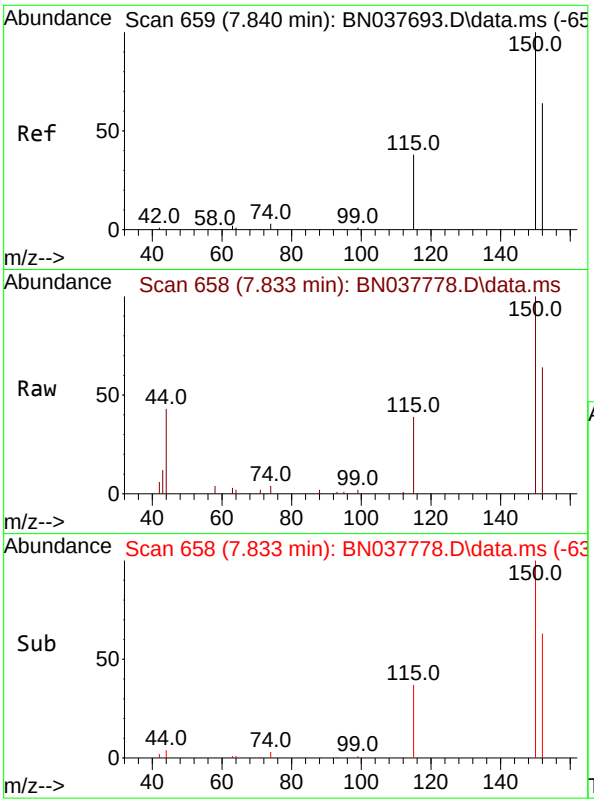
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037778.D
Acq On : 18 Sep 2025 15:47
Operator : RC/JU
Sample : Q3097-09
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

Quant Time: Sep 18 16:12:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



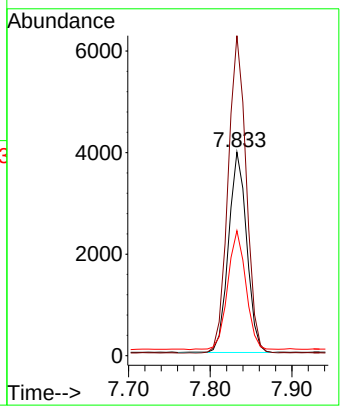


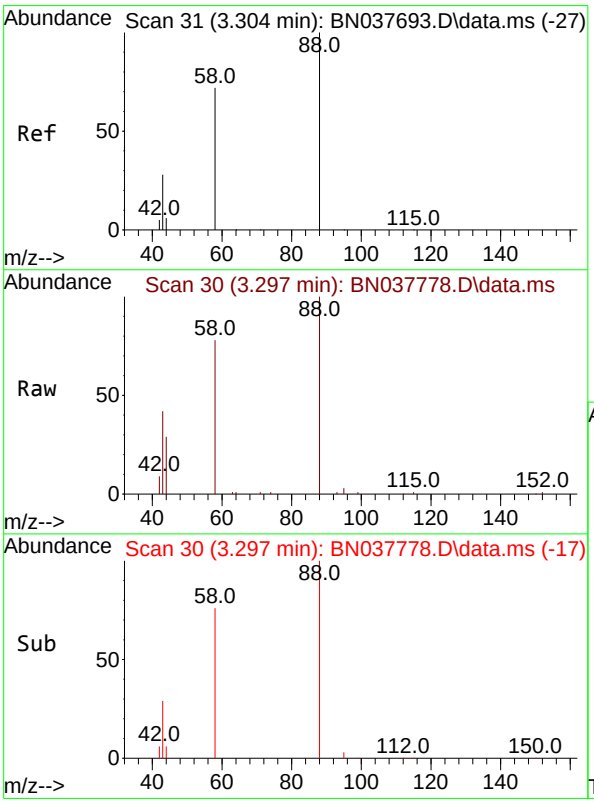
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

Tgt Ion:152 Resp: 6091

Ion	Ratio	Lower	Upper
152	100		
150	157.2	124.5	186.7
115	61.4	49.2	73.8

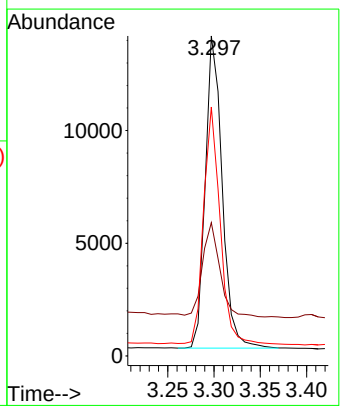


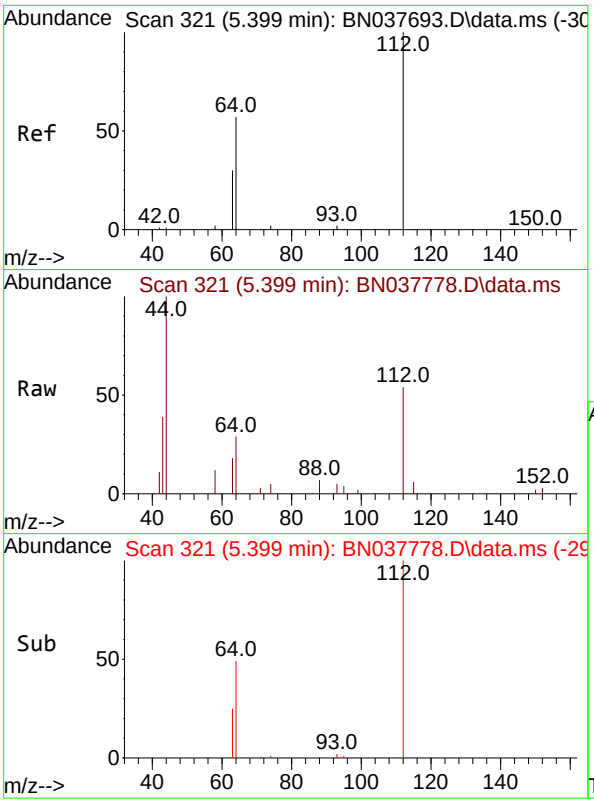


#2
1,4-Dioxane
Concen: 2.776 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion: 88 Resp: 17609

Ion	Ratio	Lower	Upper
88	100		
43	30.8	26.8	40.2
58	73.6	61.9	92.9



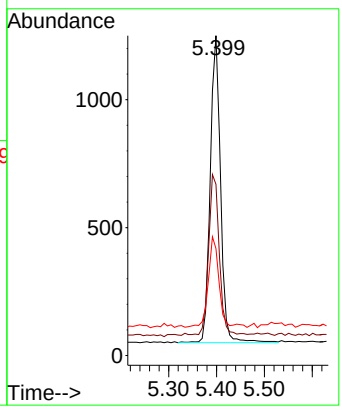


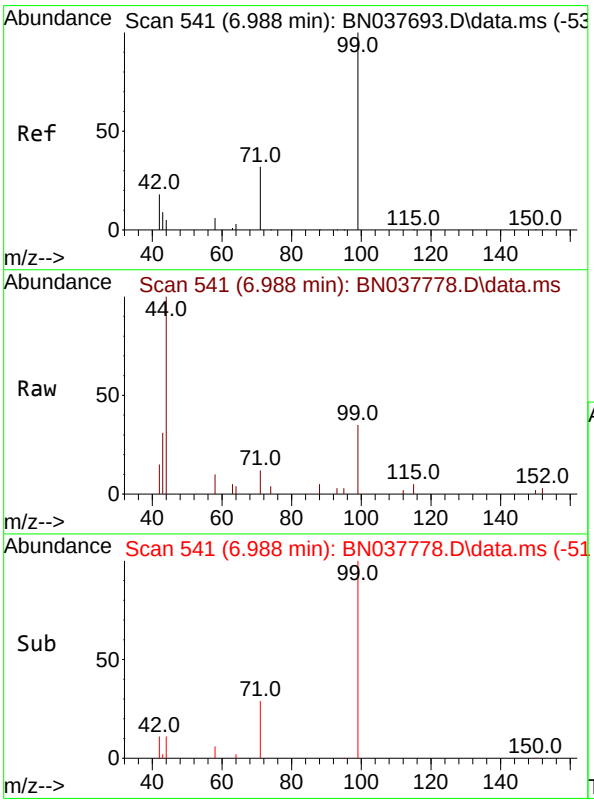
#4
2-Fluorophenol
Concen: 0.129 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

Tgt Ion:112 Resp: 1798

Ion	Ratio	Lower	Upper
112	100		
64	52.9	44.9	67.3
63	29.9	24.7	37.1

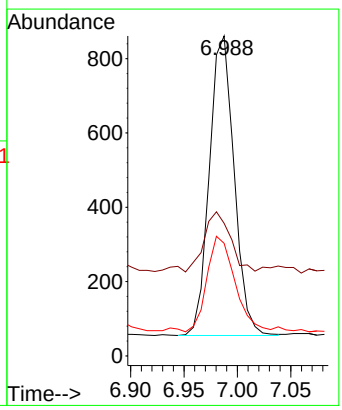


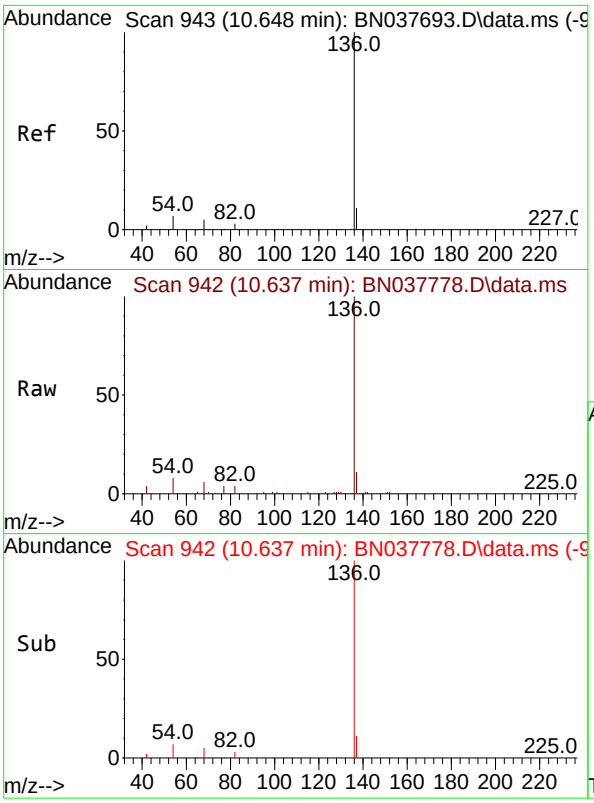


#5
Phenol-d6
Concen: 0.072 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion: 99 Resp: 1299

Ion	Ratio	Lower	Upper
99	100		
42	22.2	16.6	24.8
71	37.8	26.7	40.1



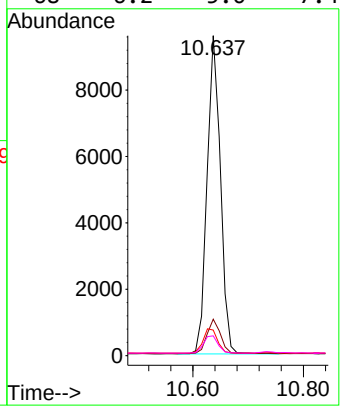


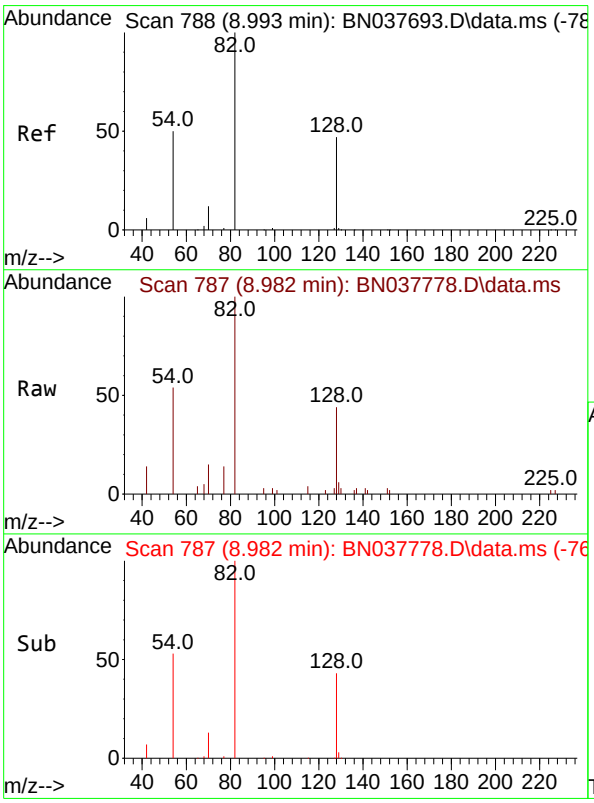
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

Tgt Ion:136 Resp: 16121

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	8.0	6.3	9.5
68	6.2	5.0	7.4

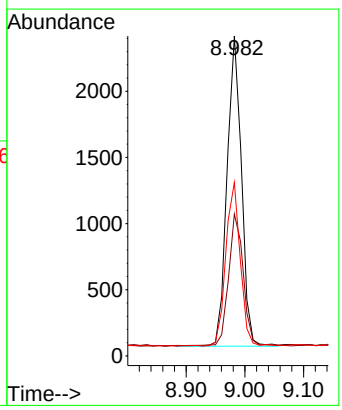


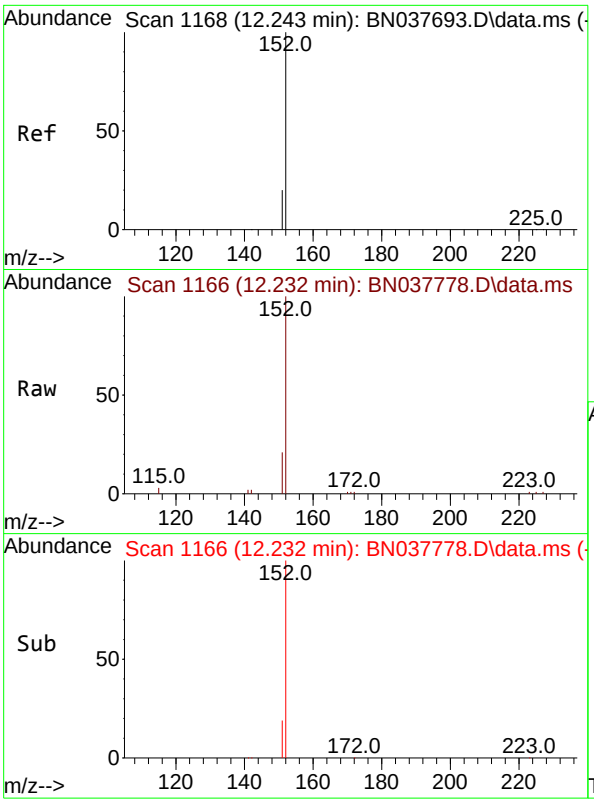


#8
Nitrobenzene-d5
Concen: 0.339 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion: 82 Resp: 4001

Ion	Ratio	Lower	Upper
82	100		
128	44.3	38.3	57.5
54	54.3	41.4	62.2



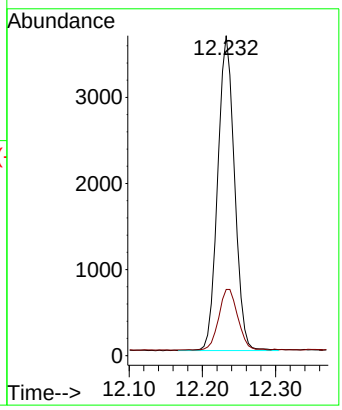


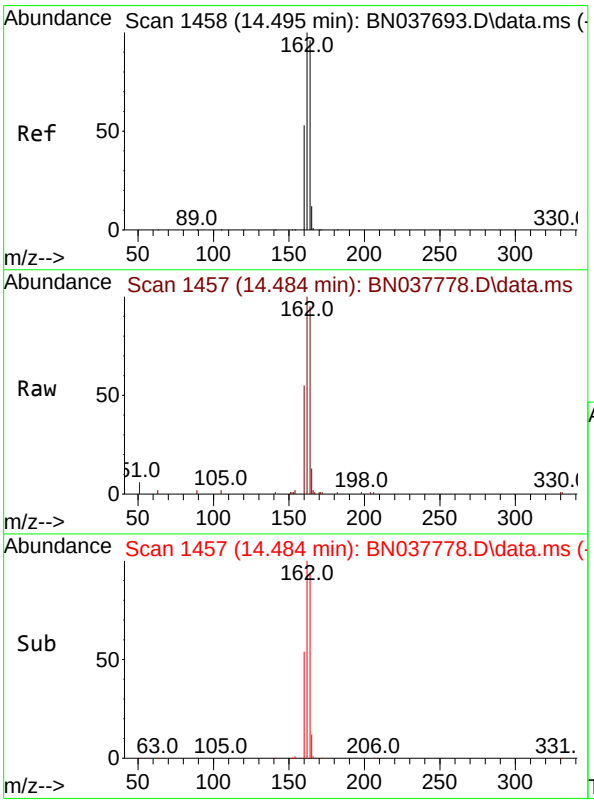
#11
2-Methylnaphthalene-d10
Concen: 0.273 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

Tgt Ion:152 Resp: 5837

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.0	25.6

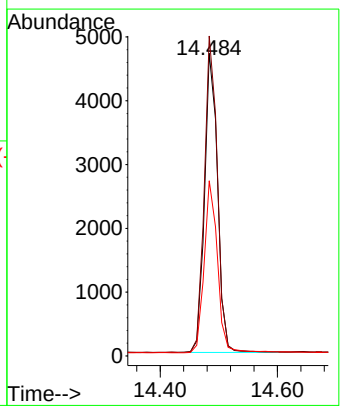


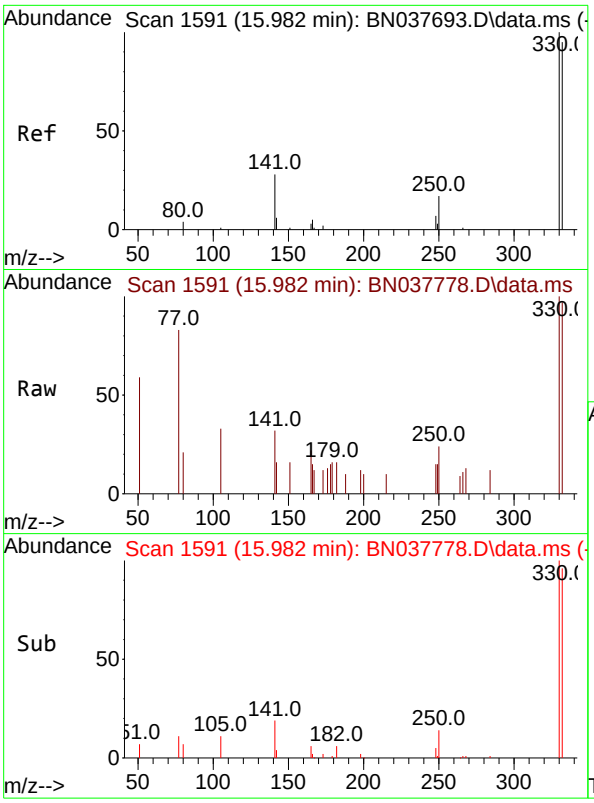


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion:164 Resp: 7264

Ion	Ratio	Lower	Upper
164	100		
162	105.8	83.1	124.7
160	57.9	44.3	66.5



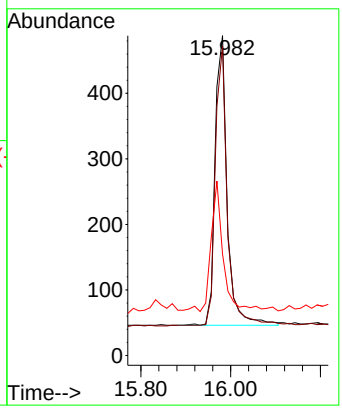


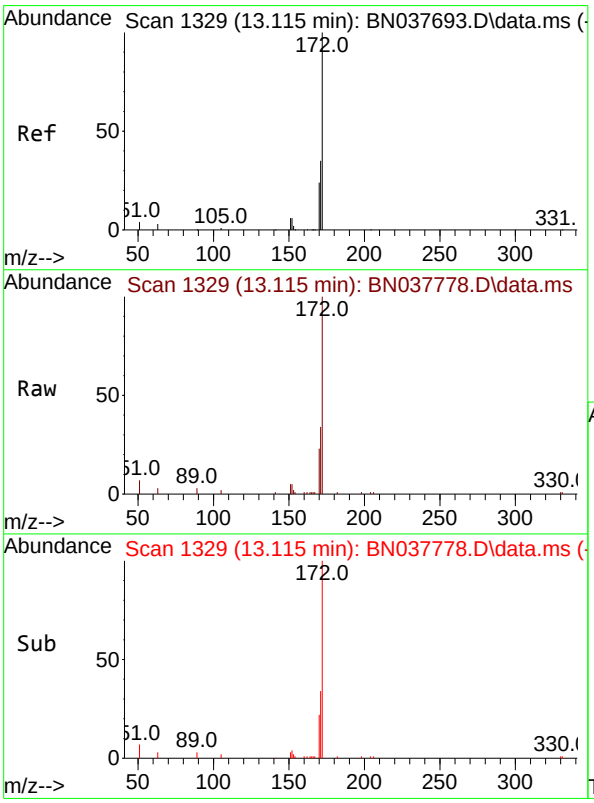
#14
2,4,6-Tribromophenol
Concen: 0.439 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

Tgt Ion:330 Resp: 832

Ion	Ratio	Lower	Upper
330	100		
332	94.2	75.3	112.9
141	44.8	35.0	52.4

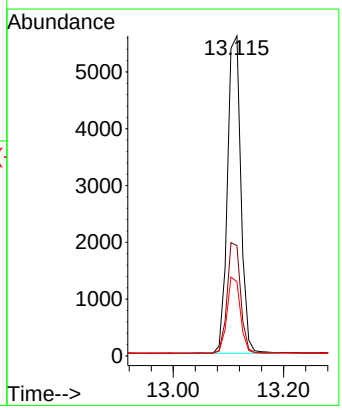


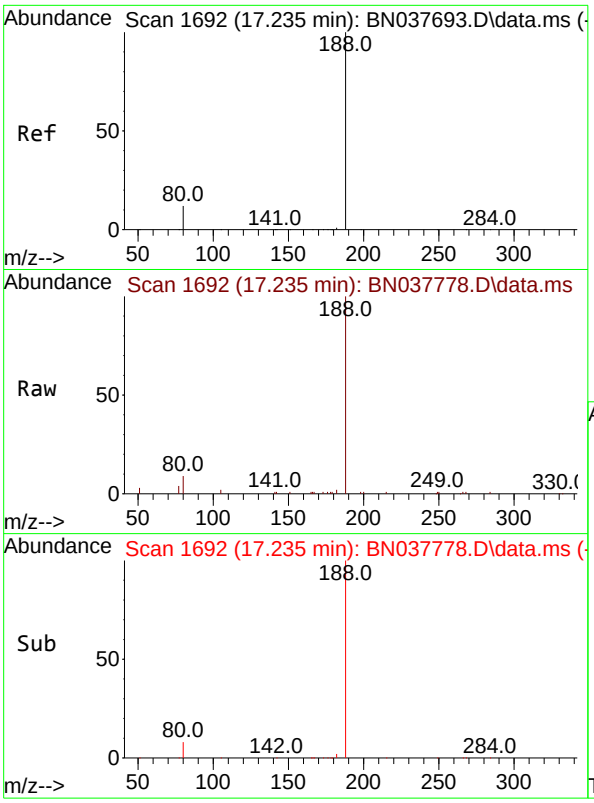


#15
2-Fluorobiphenyl
Concen: 0.309 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion:172 Resp: 9398

Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.6	43.0
170	23.2	19.8	29.8



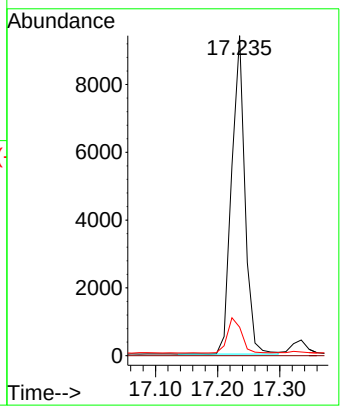


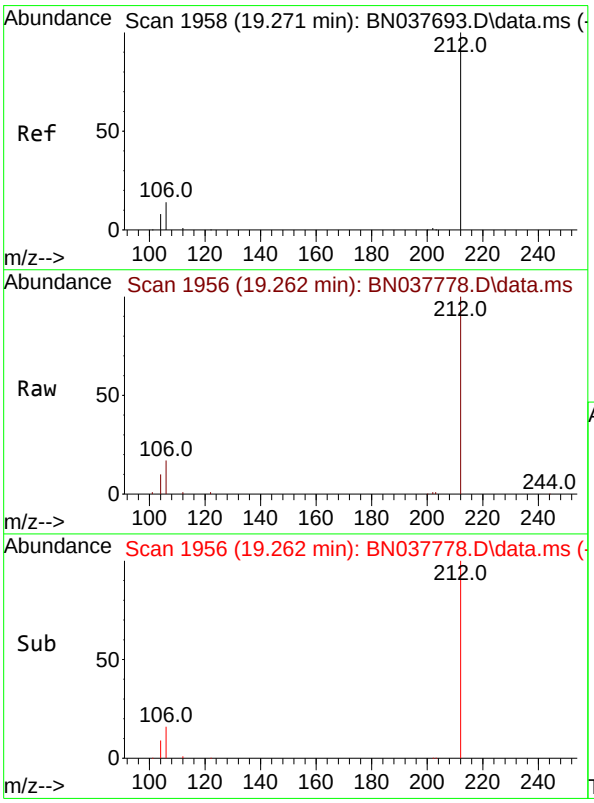
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

Tgt Ion:188 Resp: 13940

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.9	10.6	15.8#

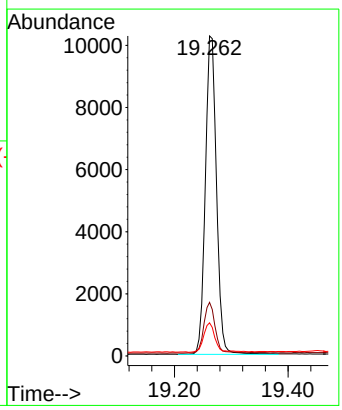


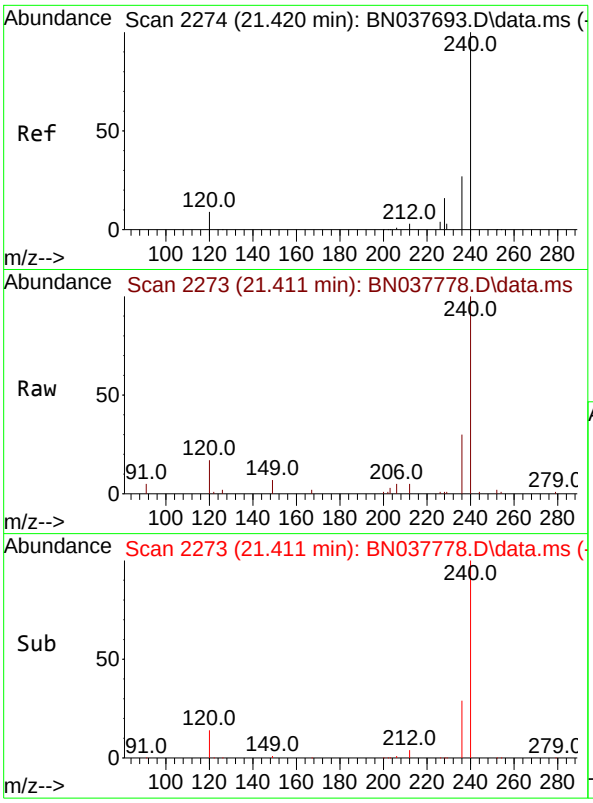


#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion:212 Resp: 13906

Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.2	18.2
104	9.1	6.9	10.3



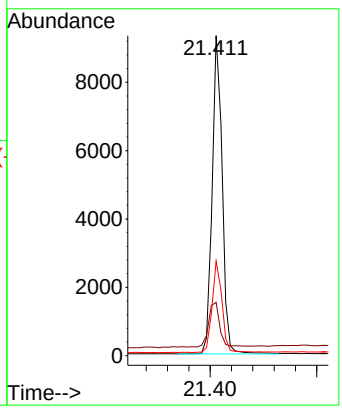


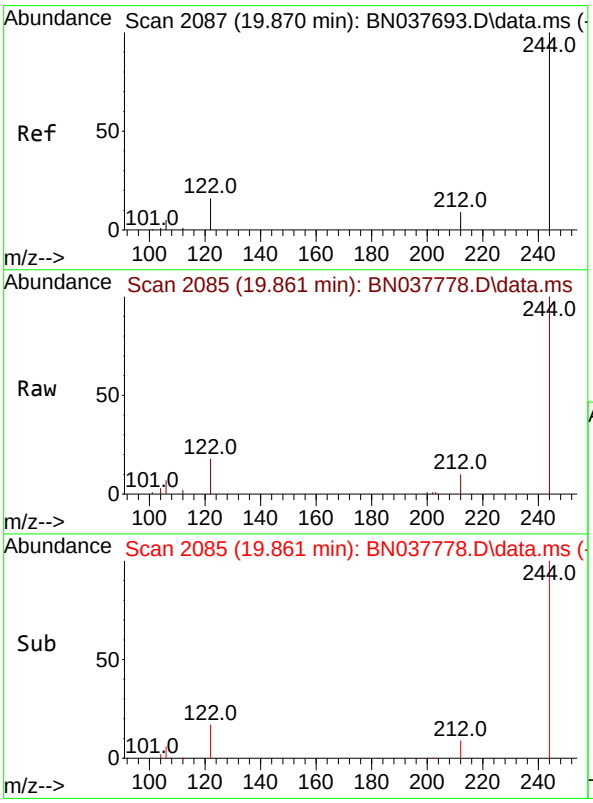
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

Tgt Ion:240 Resp: 12095

Ion	Ratio	Lower	Upper
240	100		
120	16.7	9.2	13.8#
236	29.5	22.6	33.8

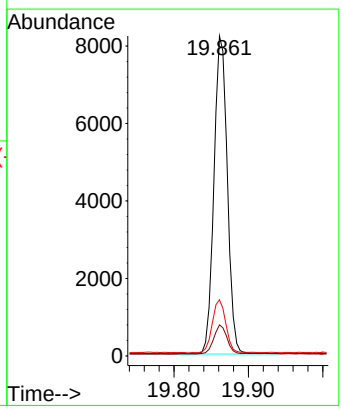


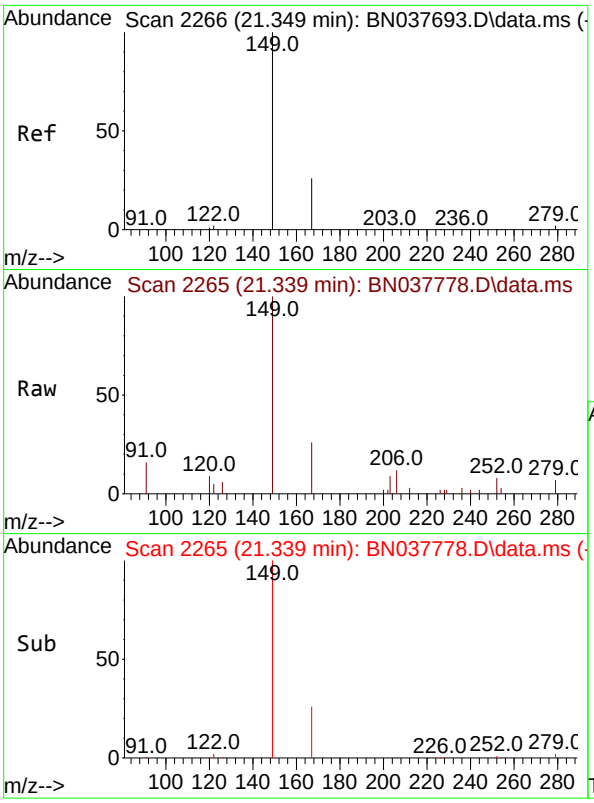


#31
Terphenyl-d14
Concen: 0.418 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion:244 Resp: 10262

Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.5	11.3
122	17.6	13.2	19.8



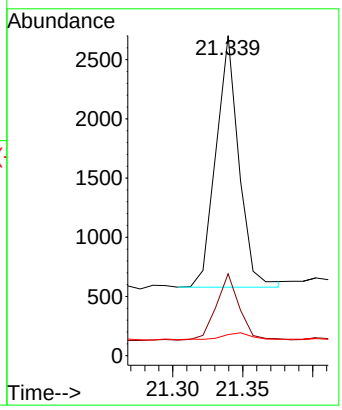


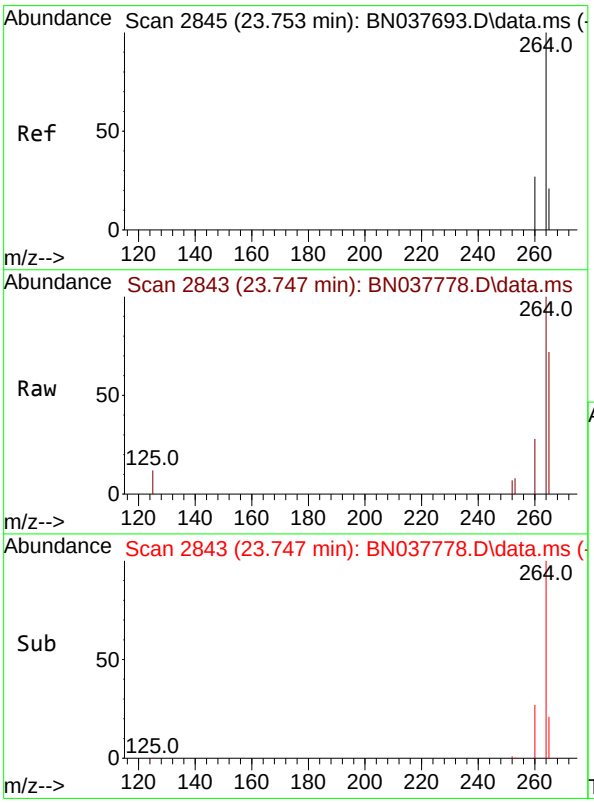
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.194 ng
RT: 21.339 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

Tgt Ion:149 Resp: 2423

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.8	31.2
279	4.0	3.3	4.9

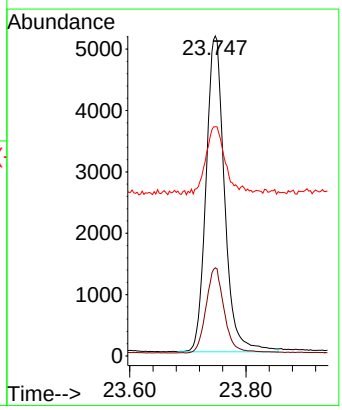




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion:264 Resp: 11352

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.8	32.8
265	71.7	39.4	59.2#



Raw Data: **BN037801.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D3-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-10	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037801.D	1	09/16/25 09:39	09/19/25 06:25	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.14	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6810	7.833				
1146-65-2	Naphthalene-d8	16600	10.637				
15067-26-2	Acenaphthene-d10	7360	14.484				
1517-22-2	Phenanthrene-d10	12900	17.235				
1719-03-5	Chrysene-d12	10500	21.411				
1520-96-3	Perylene-d12	10100	23.739				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037801.D
Acq On : 19 Sep 2025 06:25
Operator : RC/JU
Sample : Q3097-10
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

Quant Time: Sep 19 07:43:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

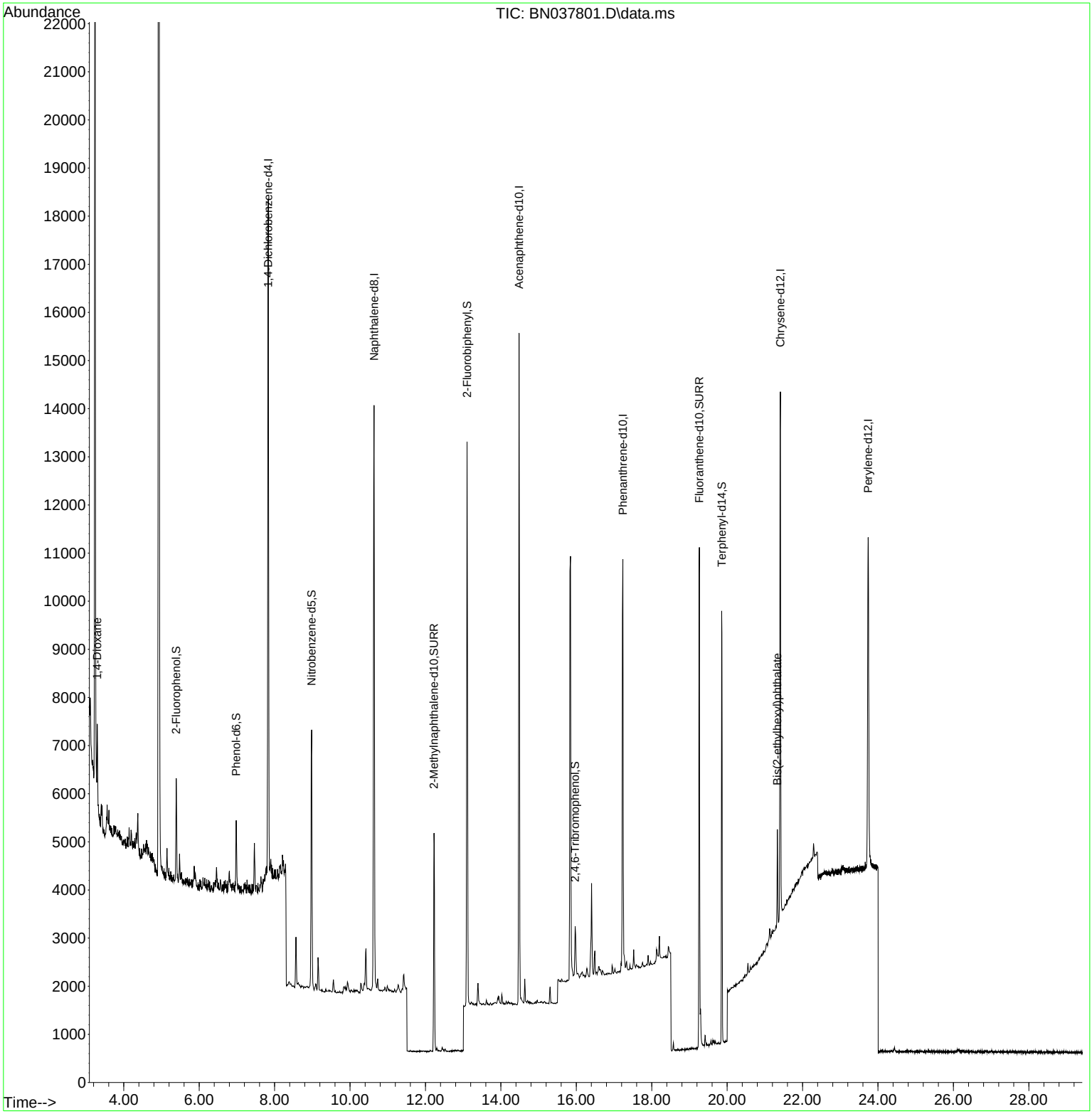
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6805	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	16558	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7363	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12865	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10547	0.400	ng	0.00
35) Perylene-d12	23.739	264	10142	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1730	0.111	ng	0.00
5) Phenol-d6	6.980	99	1249	0.062	ng	0.00
8) Nitrobenzene-d5	8.982	82	4351	0.359	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	6125	0.279	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	693	0.361	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	9637	0.313	ng	-0.01
27) Fluoranthene-d10	19.262	212	11443	0.354	ng	0.00
31) Terphenyl-d14	19.856	244	8471	0.396	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	1024	0.144	ng	# 87
34) Bis(2-ethylhexyl)phtha...	21.331	149	1817	0.167	ng	98

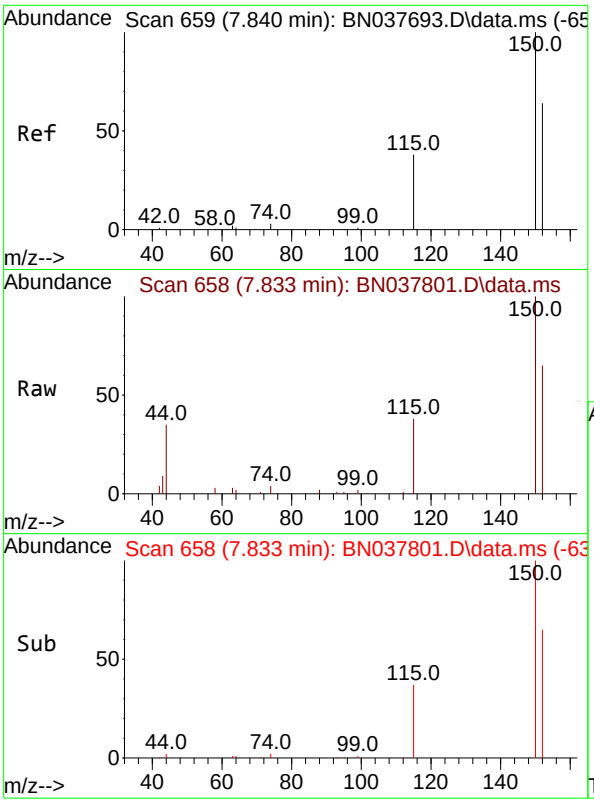
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037801.D
Acq On : 19 Sep 2025 06:25
Operator : RC/JU
Sample : Q3097-10
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

Quant Time: Sep 19 07:43:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



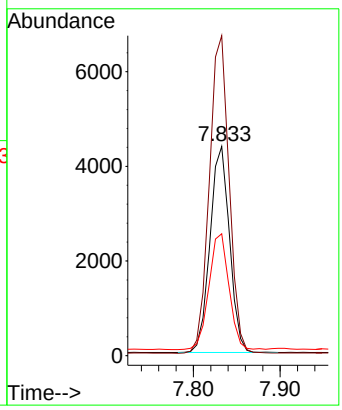


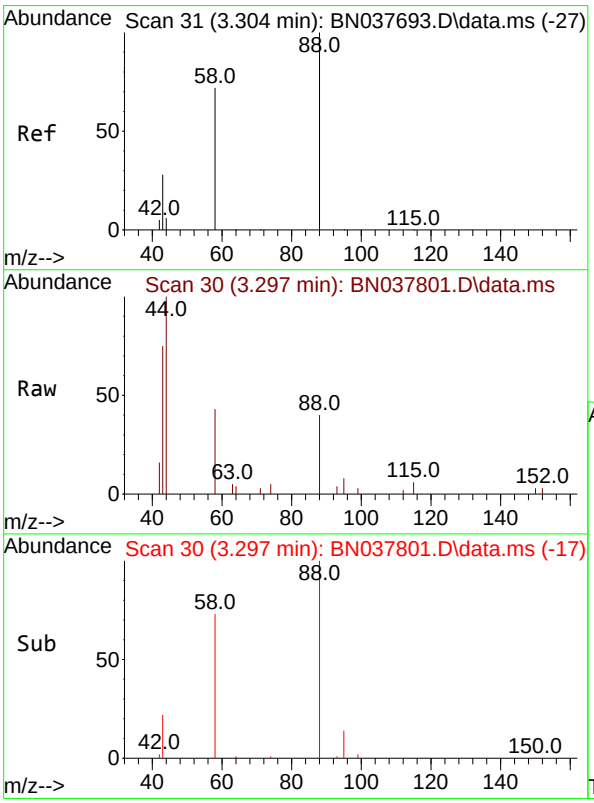
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

Tgt Ion:152 Resp: 6805

Ion	Ratio	Lower	Upper
152	100		
150	152.9	124.5	186.7
115	58.3	49.2	73.8

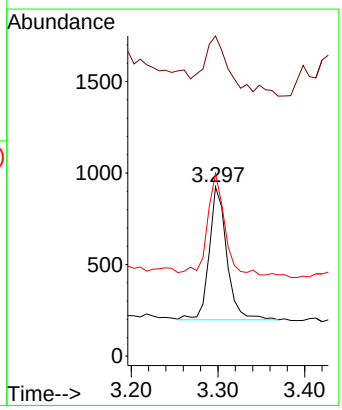


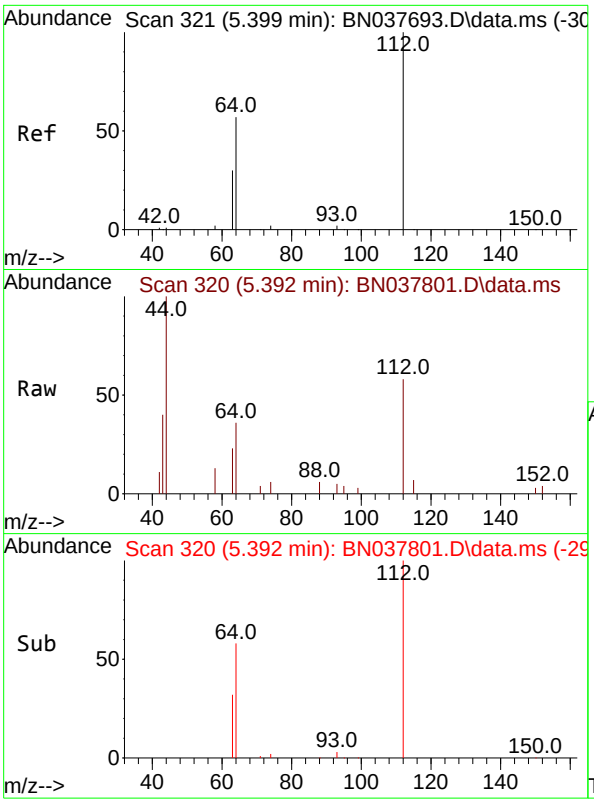


#2
1,4-Dioxane
Concen: 0.144 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Tgt Ion: 88 Resp: 1024

Ion	Ratio	Lower	Upper
88	100		
43	53.2	26.8	40.2#
58	74.6	61.9	92.9



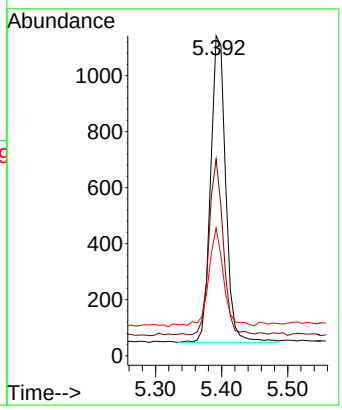


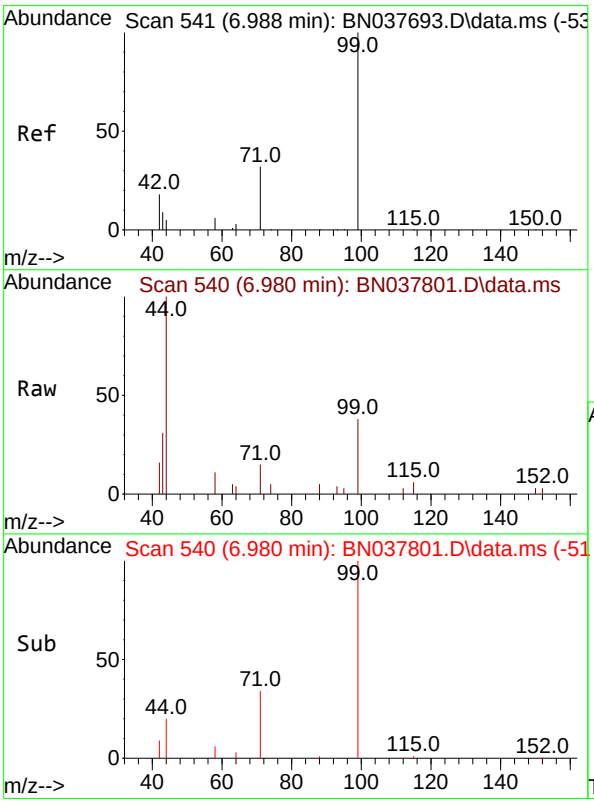
#4
2-Fluorophenol
Concen: 0.111 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

Tgt Ion:112 Resp: 1730

Ion	Ratio	Lower	Upper
112	100		
64	53.8	44.9	67.3
63	32.4	24.7	37.1

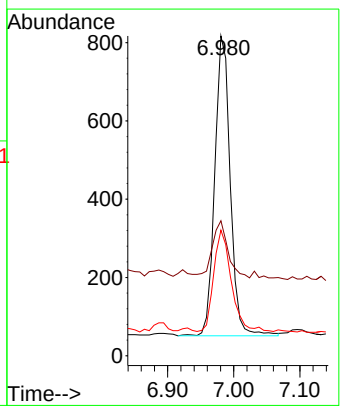


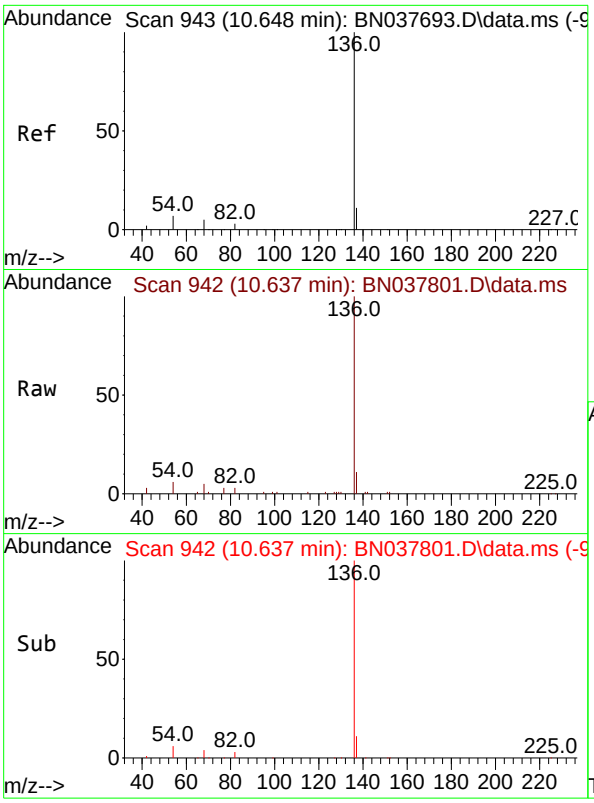


#5
Phenol-d6
Concen: 0.062 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Tgt Ion: 99 Resp: 1249

Ion	Ratio	Lower	Upper
99	100		
42	19.3	16.6	24.8
71	38.3	26.7	40.1



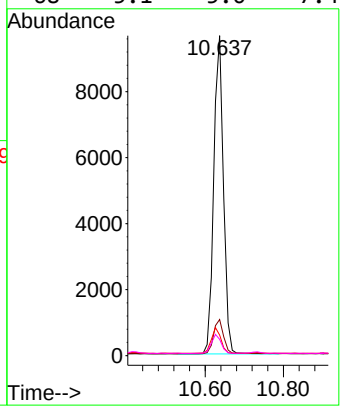


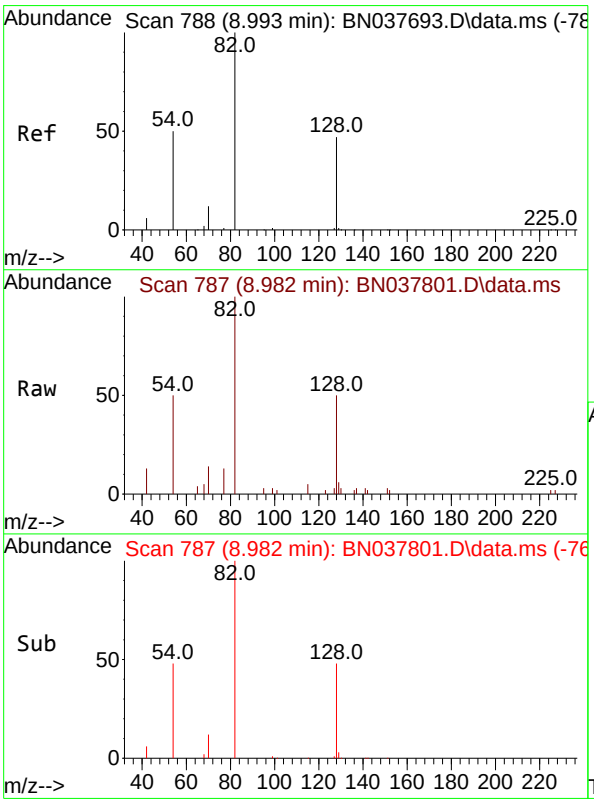
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

Tgt Ion:136 Resp: 16558

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	6.5	6.3	9.5
68	5.1	5.0	7.4

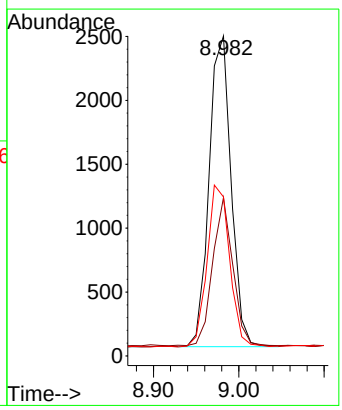


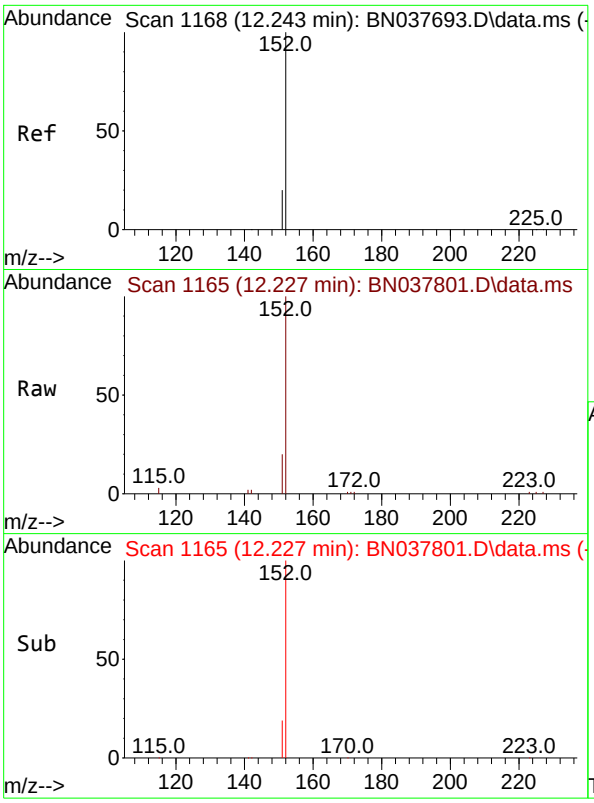


#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Tgt Ion: 82 Resp: 4351

Ion	Ratio	Lower	Upper
82	100		
128	49.5	38.3	57.5
54	49.7	41.4	62.2



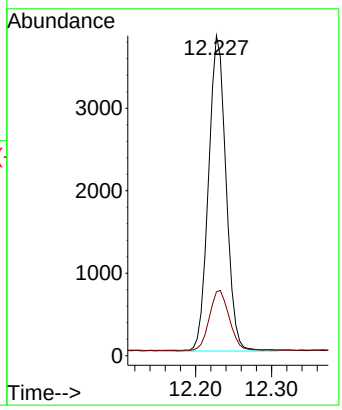


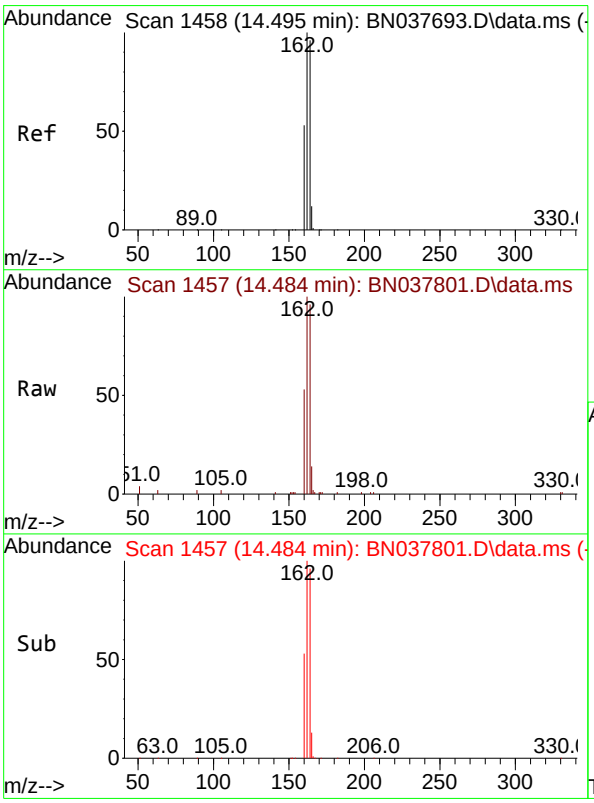
#11
2-Methylnaphthalene-d10
Concen: 0.279 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

Tgt Ion:152 Resp: 6125

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.0	25.6

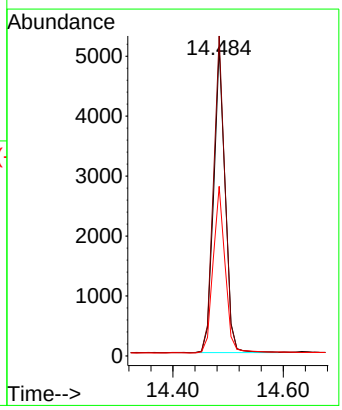


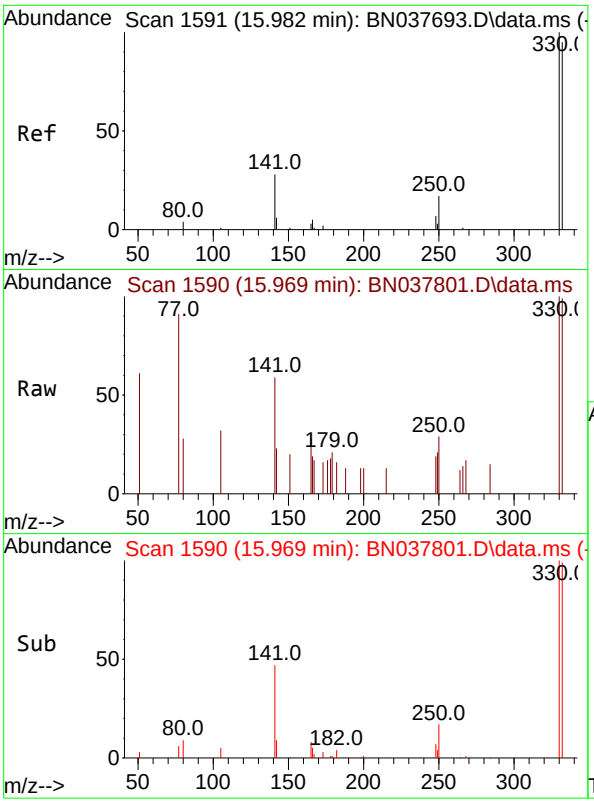


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Tgt Ion:164 Resp: 7363

Ion	Ratio	Lower	Upper
164	100		
162	103.8	83.1	124.7
160	55.0	44.3	66.5



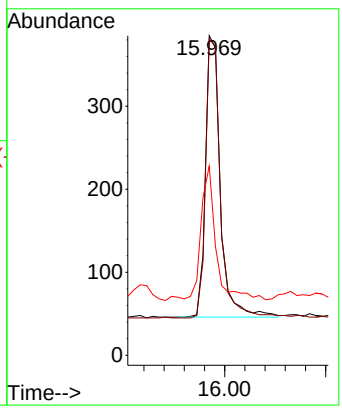


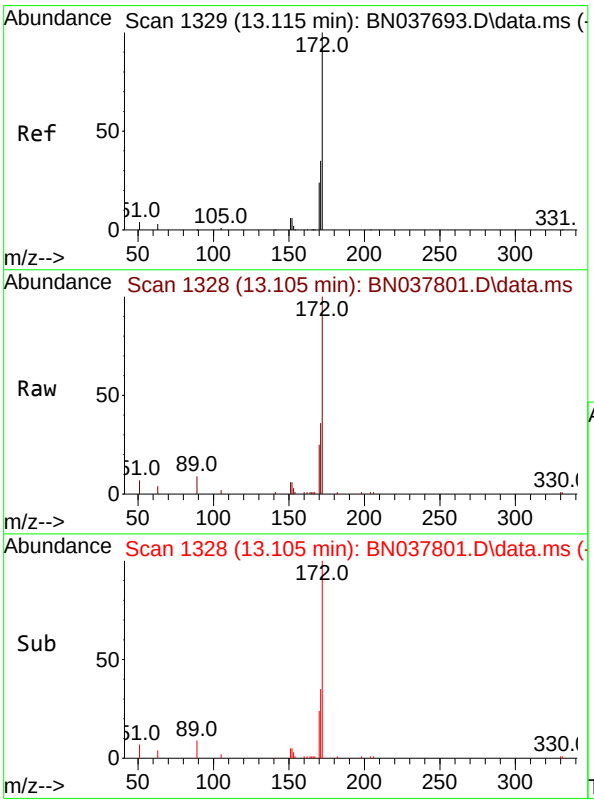
#14
2,4,6-Tribromophenol
Concen: 0.361 ng
RT: 15.969 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

Tgt Ion:330 Resp: 693

Ion	Ratio	Lower	Upper
330	100		
332	99.0	75.3	112.9
141	49.4	35.0	52.4

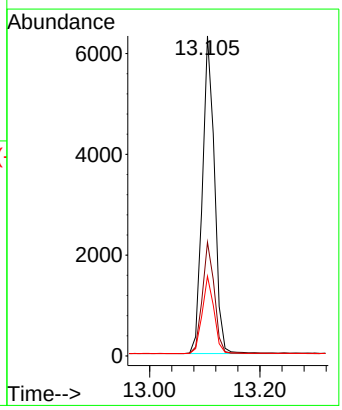


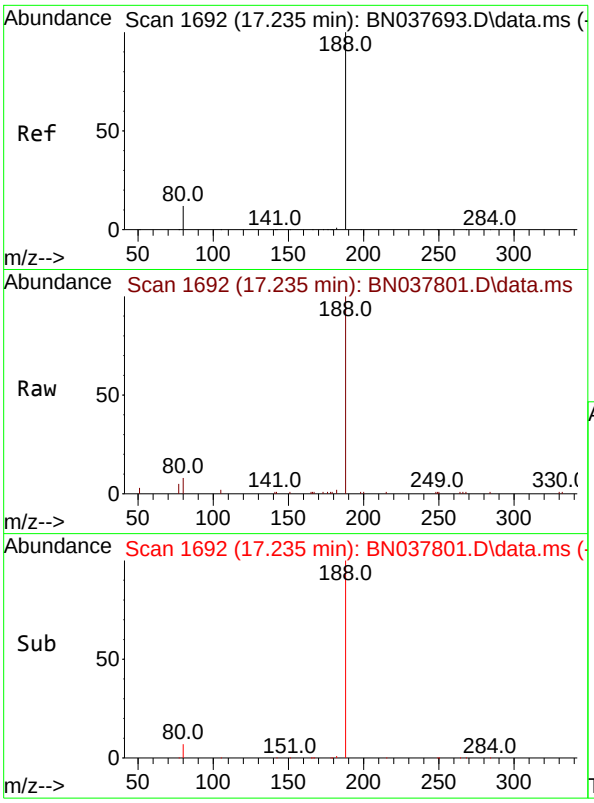


#15
2-Fluorobiphenyl
Concen: 0.313 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Tgt Ion:172 Resp: 9637

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	24.9	19.8	29.8



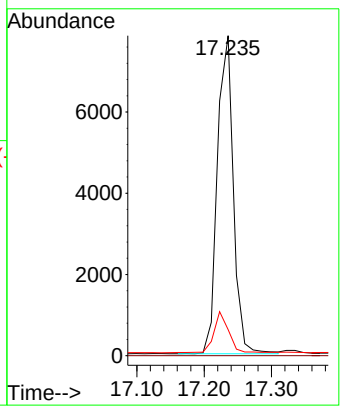


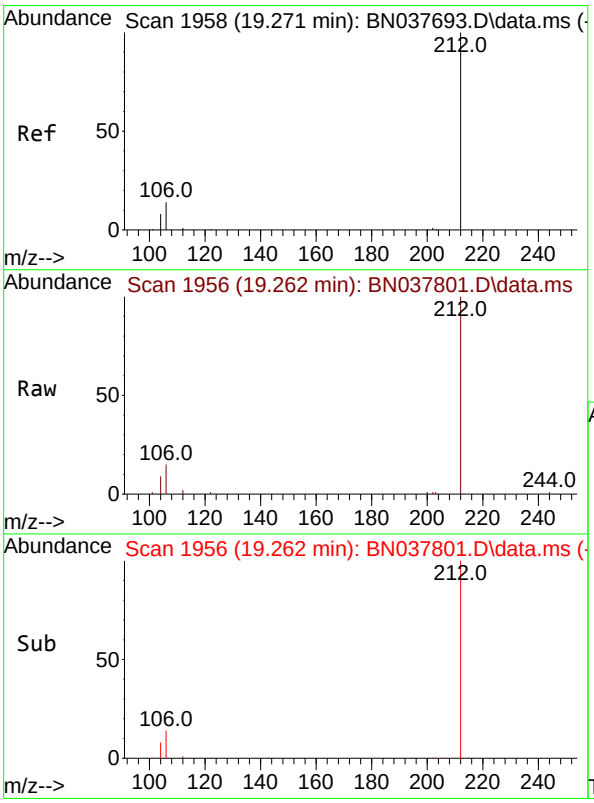
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

Tgt Ion:188 Resp: 12865

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.1	10.6	15.8#

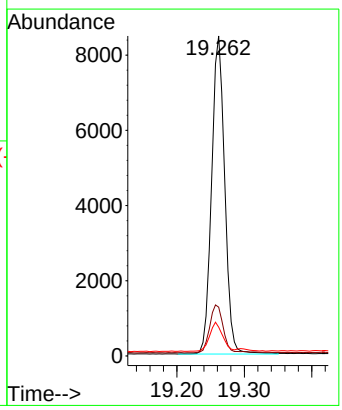


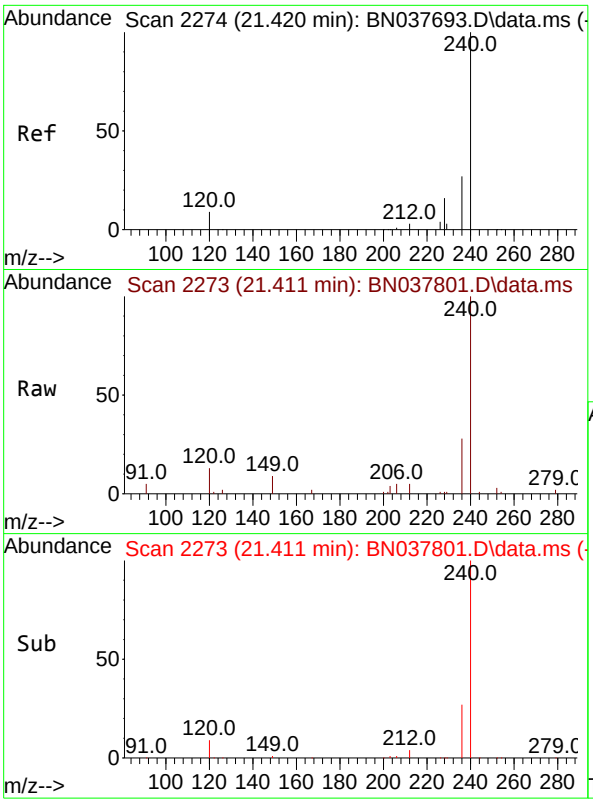


#27
Fluoranthene-d10
Concen: 0.354 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Tgt Ion:212 Resp: 11443

Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.2	18.2
104	8.9	6.9	10.3



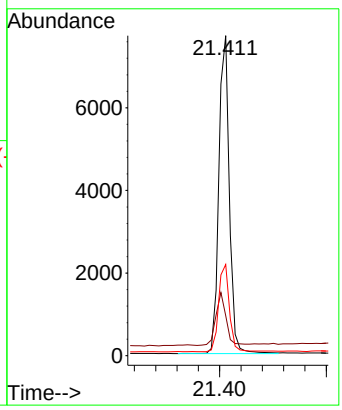


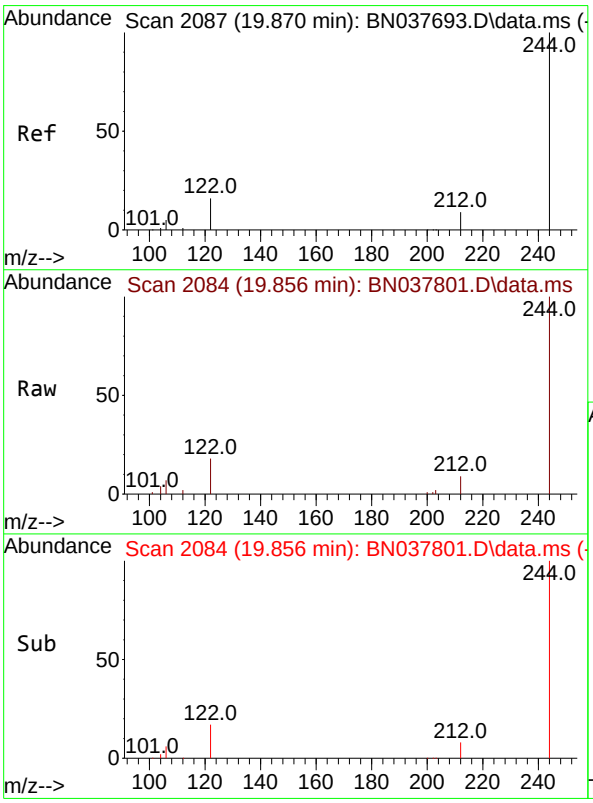
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

Tgt Ion:240 Resp: 10547

Ion	Ratio	Lower	Upper
240	100		
120	12.5	9.2	13.8
236	28.5	22.6	33.8

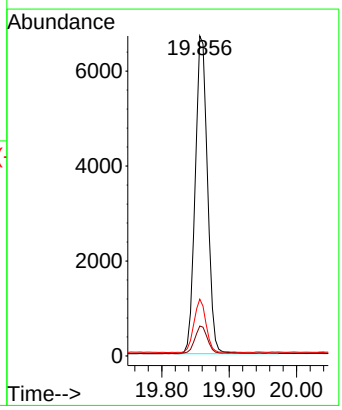


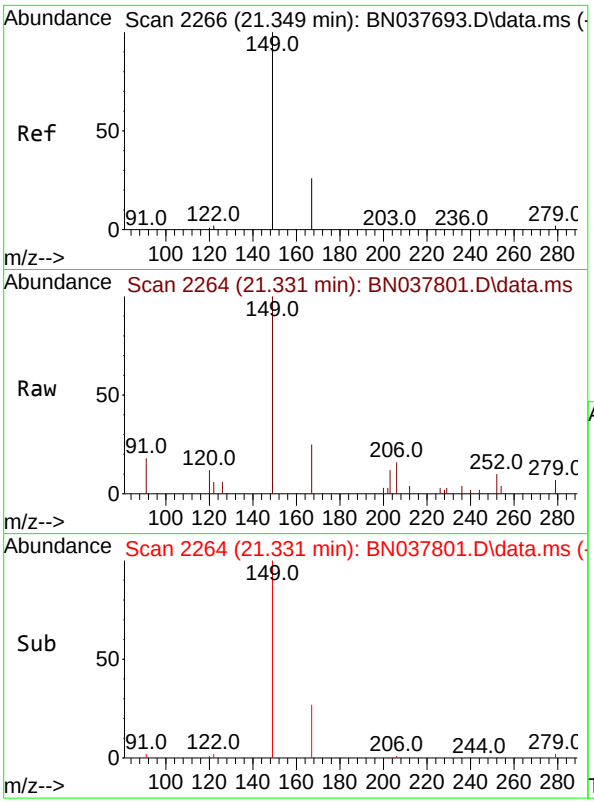


#31
Terphenyl-d14
Concen: 0.396 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Tgt Ion:244 Resp: 8471

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	17.8	13.2	19.8



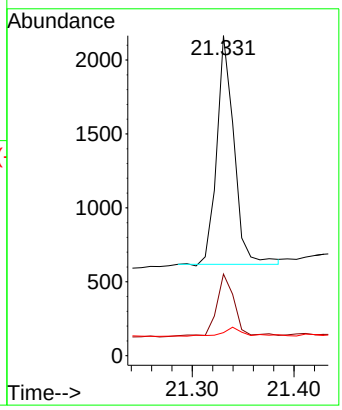


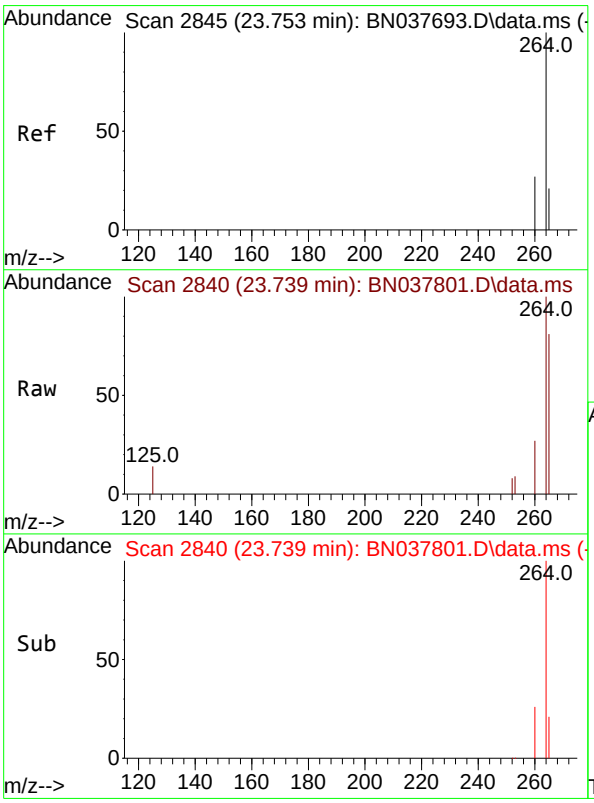
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.167 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

Tgt Ion:149 Resp: 1817

Ion	Ratio	Lower	Upper
149	100		
167	27.0	20.8	31.2
279	4.9	3.3	4.9

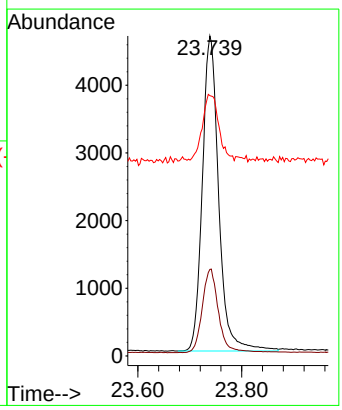




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Tgt Ion:264 Resp: 10142

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.8	32.8
265	81.3	39.4	59.2#



Raw Data: **BN037802.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE105D1-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-11	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037802.D	1	09/16/25 09:39	09/19/25 07:01	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		89%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		102%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6840	7.833				
1146-65-2	Naphthalene-d8	16600	10.637				
15067-26-2	Acenaphthene-d10	7230	14.484				
1517-22-2	Phenanthrene-d10	12400	17.235				
1719-03-5	Chrysene-d12	9970	21.411				
1520-96-3	Perylene-d12	9390	23.741				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037802.D
Acq On : 19 Sep 2025 07:01
Operator : RC/JU
Sample : Q3097-11
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

Quant Time: Sep 19 07:43:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

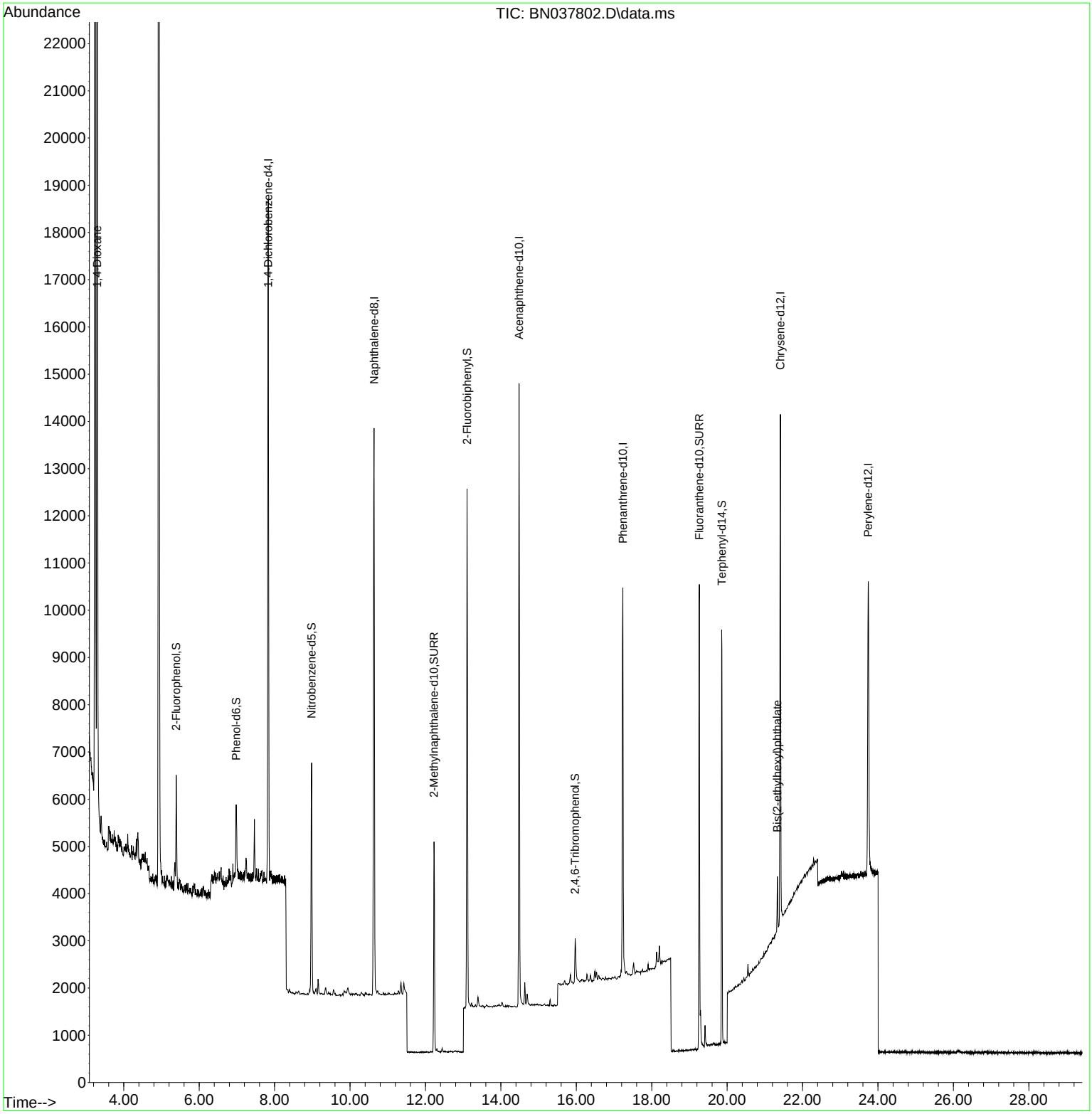
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6841	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	16631	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7228	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12396	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	9967	0.400	ng	0.00
35) Perylene-d12	23.741	264	9393	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1818	0.116	ng	0.00
5) Phenol-d6	6.980	99	1463	0.072	ng	0.00
8) Nitrobenzene-d5	8.982	82	3879	0.319	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	5955	0.270	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	643	0.341	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	9283	0.307	ng	-0.01
27) Fluoranthene-d10	19.262	212	11034	0.355	ng	0.00
31) Terphenyl-d14	19.856	244	8243	0.407	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	22600	3.172	ng	95
34) Bis(2-ethylhexyl)phtha...	21.331	149	1144	0.111	ng	98

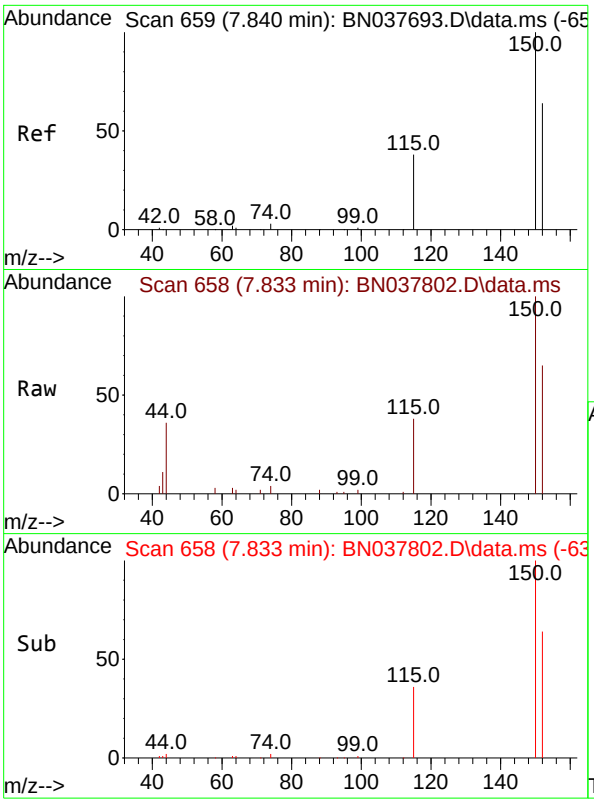
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037802.D
Acq On : 19 Sep 2025 07:01
Operator : RC/JU
Sample : Q3097-11
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

Quant Time: Sep 19 07:43:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



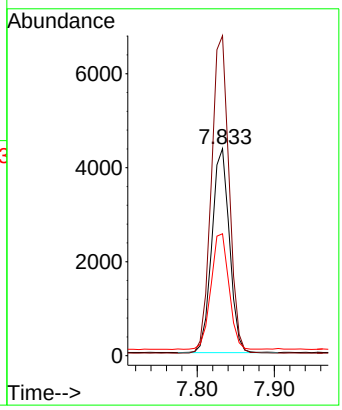


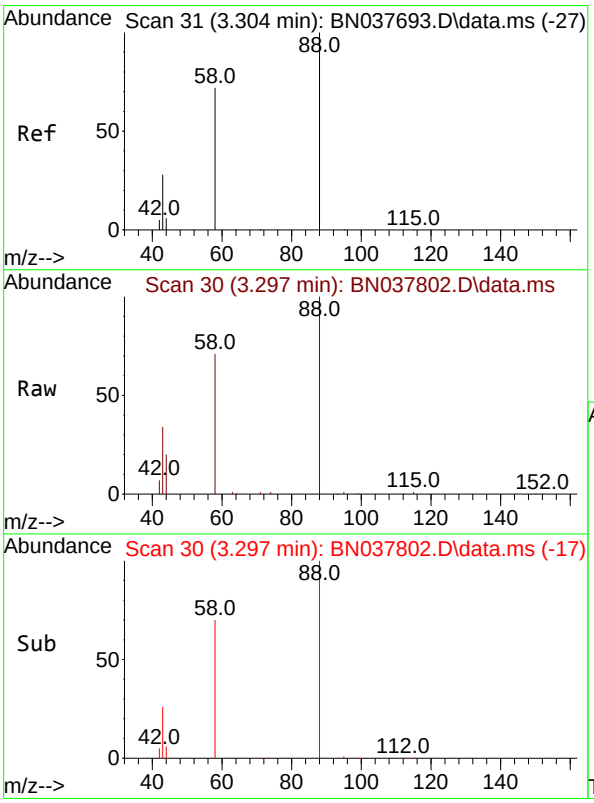
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

Tgt Ion:152 Resp: 6841

Ion	Ratio	Lower	Upper
152	100		
150	154.6	124.5	186.7
115	58.9	49.2	73.8

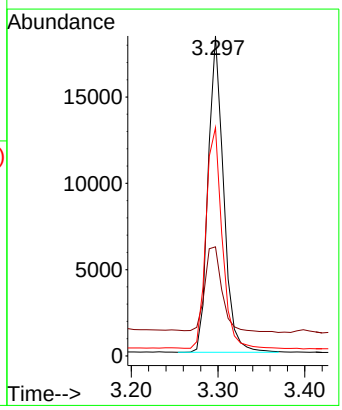


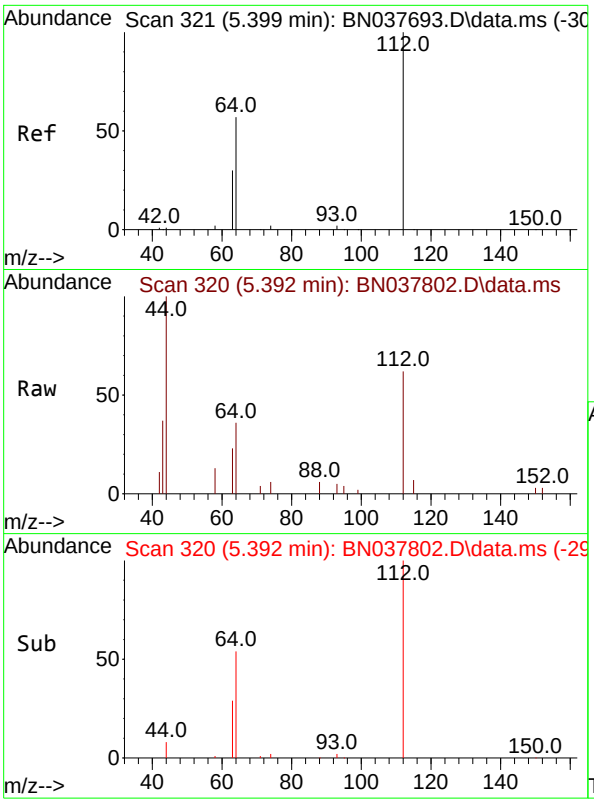


#2
1,4-Dioxane
Concen: 3.172 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Tgt Ion: 88 Resp: 22600

Ion	Ratio	Lower	Upper
88	100		
43	31.0	26.8	40.2
58	73.0	61.9	92.9



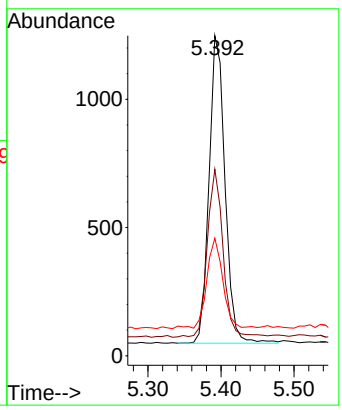


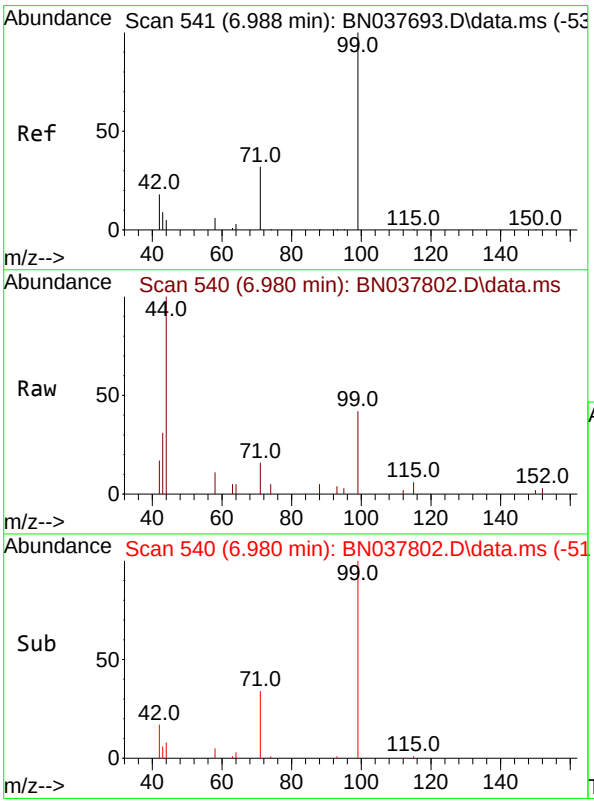
#4
2-Fluorophenol
Concen: 0.116 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

Tgt Ion:112 Resp: 1818

Ion	Ratio	Lower	Upper
112	100		
64	54.5	44.9	67.3
63	29.8	24.7	37.1

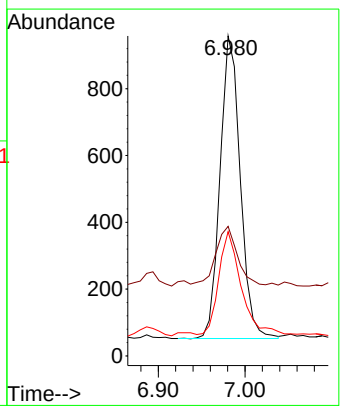


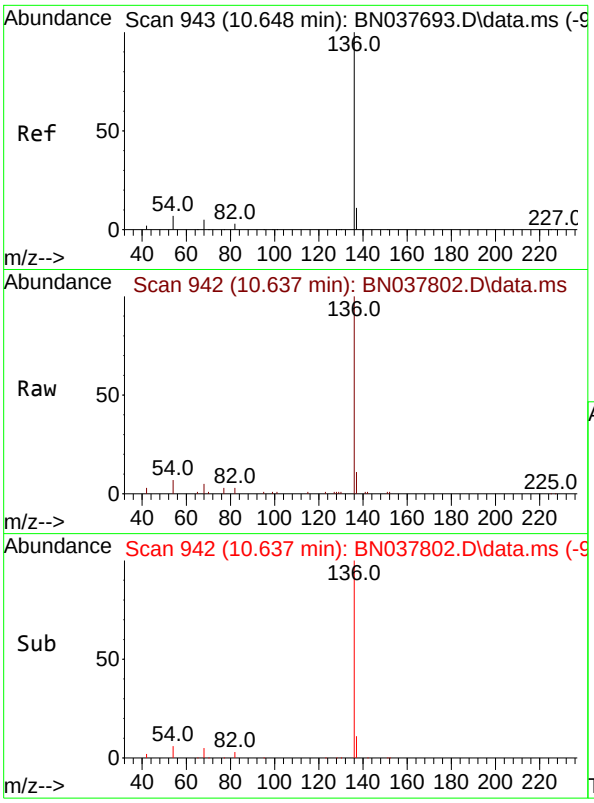


#5
Phenol-d6
Concen: 0.072 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Tgt Ion: 99 Resp: 1463

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.6	24.8
71	37.8	26.7	40.1



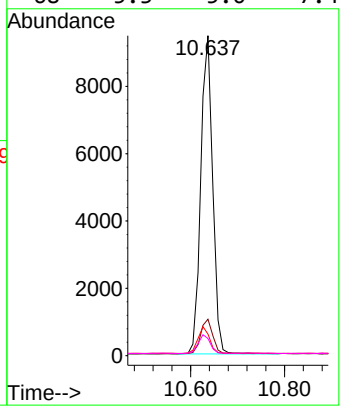


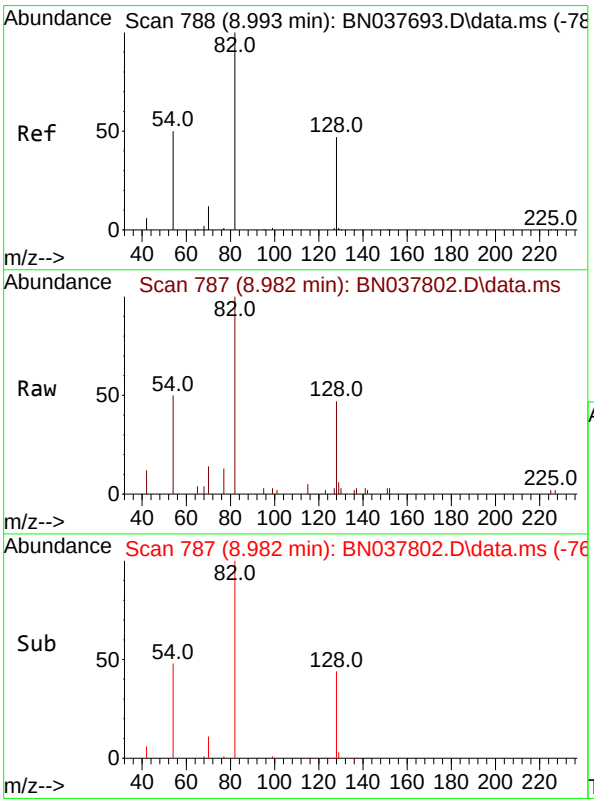
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

Tgt Ion:136 Resp: 16631

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	6.8	6.3	9.5
68	5.3	5.0	7.4

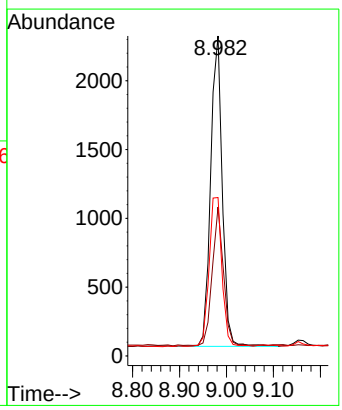


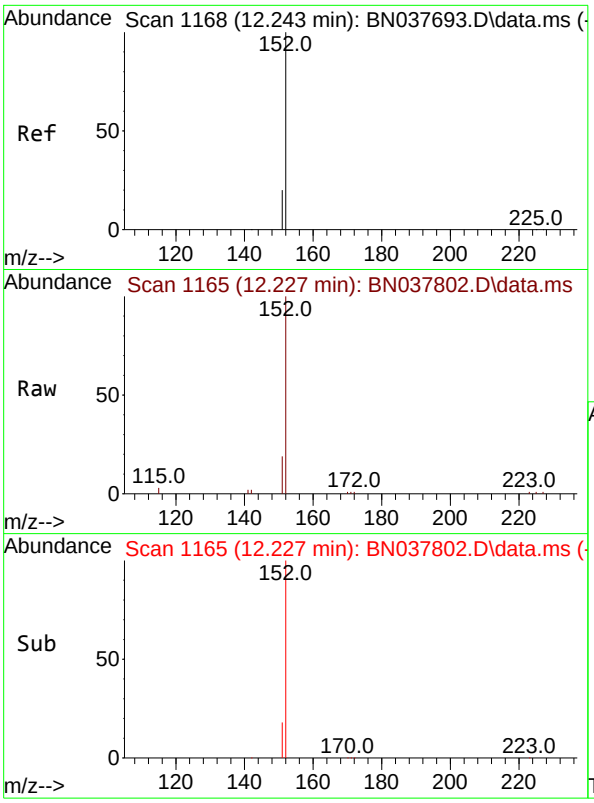


#8
Nitrobenzene-d5
Concen: 0.319 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Tgt Ion: 82 Resp: 3879

Ion	Ratio	Lower	Upper
82	100		
128	46.5	38.3	57.5
54	49.5	41.4	62.2



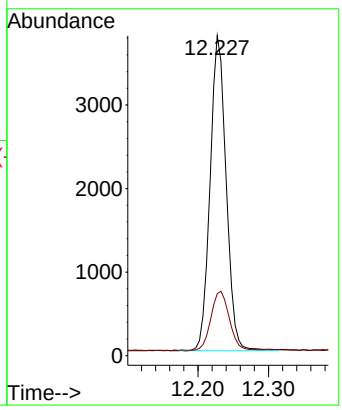


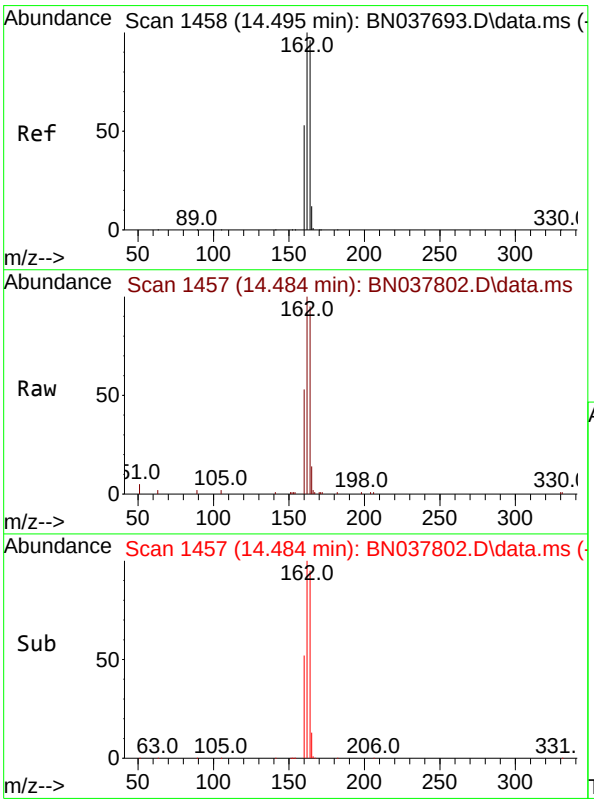
#11
2-Methylnaphthalene-d10
Concen: 0.270 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

Tgt Ion:152 Resp: 5955

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

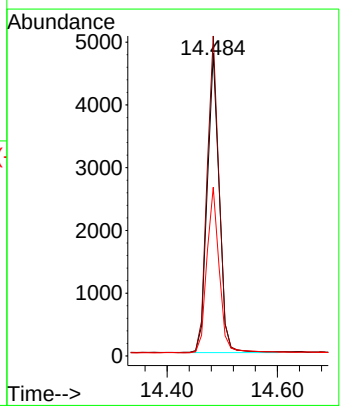


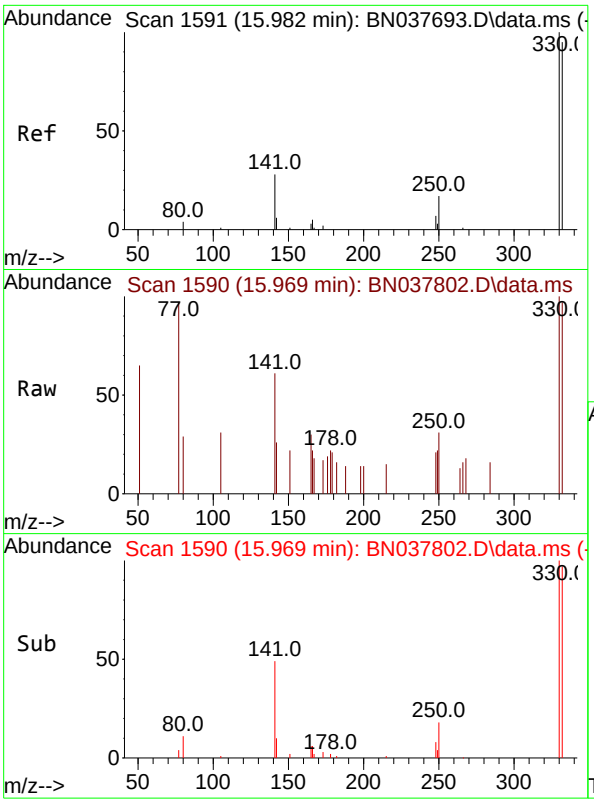


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Tgt Ion:164 Resp: 7228

Ion	Ratio	Lower	Upper
164	100		
162	105.7	83.1	124.7
160	55.7	44.3	66.5



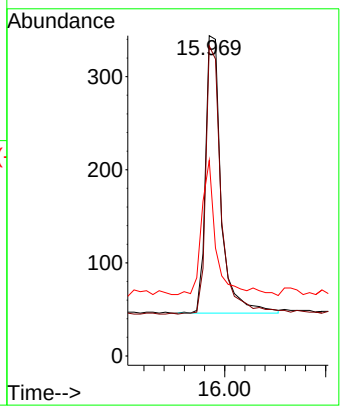


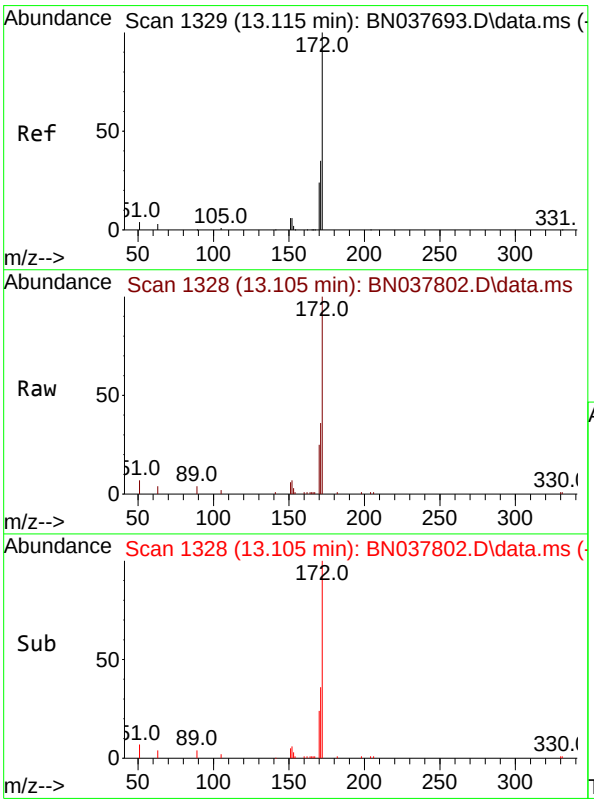
#14
2,4,6-Tribromophenol
Concen: 0.341 ng
RT: 15.969 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

Tgt Ion:330 Resp: 643

Ion	Ratio	Lower	Upper
330	100		
332	95.5	75.3	112.9
141	46.8	35.0	52.4

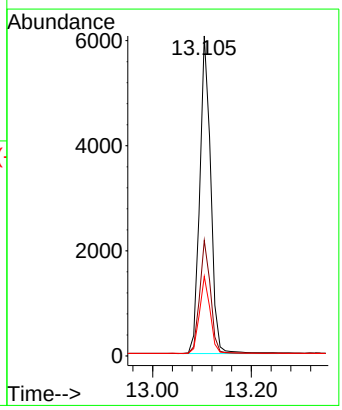


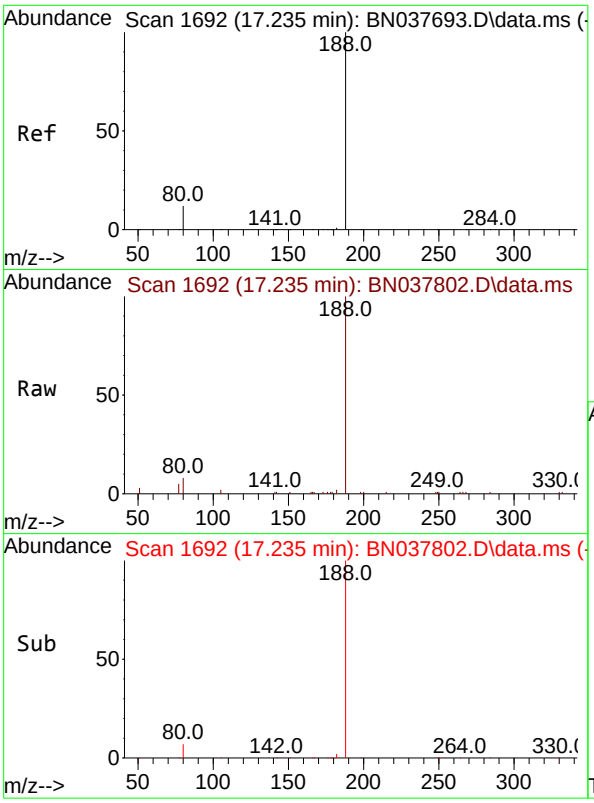


#15
2-Fluorobiphenyl
Concen: 0.307 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Tgt Ion:172 Resp: 9283

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.6	43.0
170	24.8	19.8	29.8



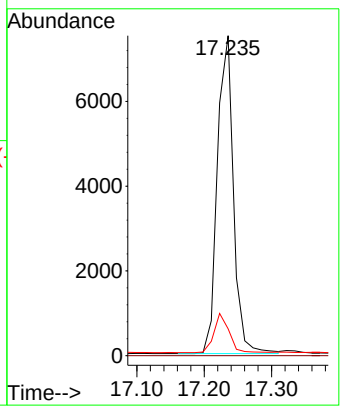


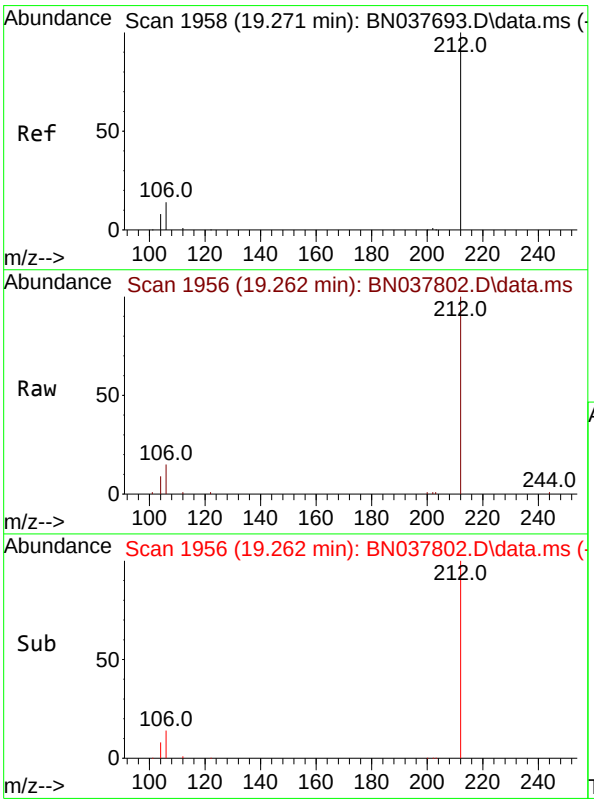
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

Tgt Ion:188 Resp: 12396

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	10.6	15.8#

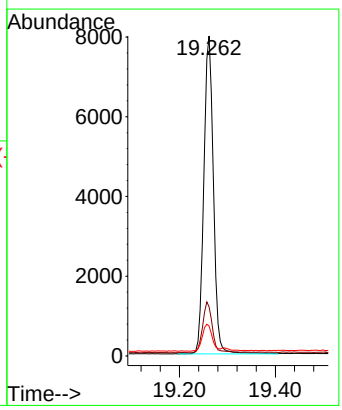


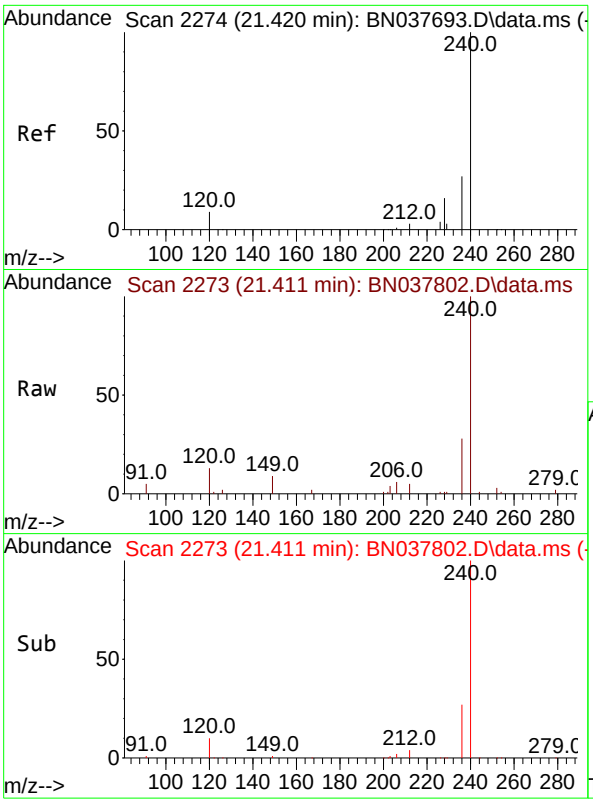


#27
Fluoranthene-d10
Concen: 0.355 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Tgt Ion:212 Resp: 11034

Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.2	18.2
104	8.6	6.9	10.3



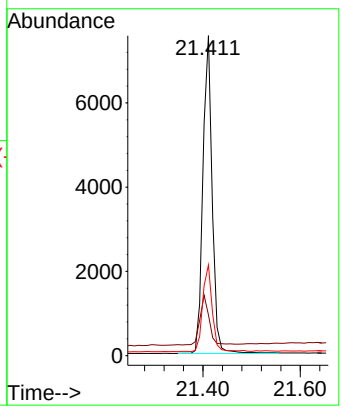


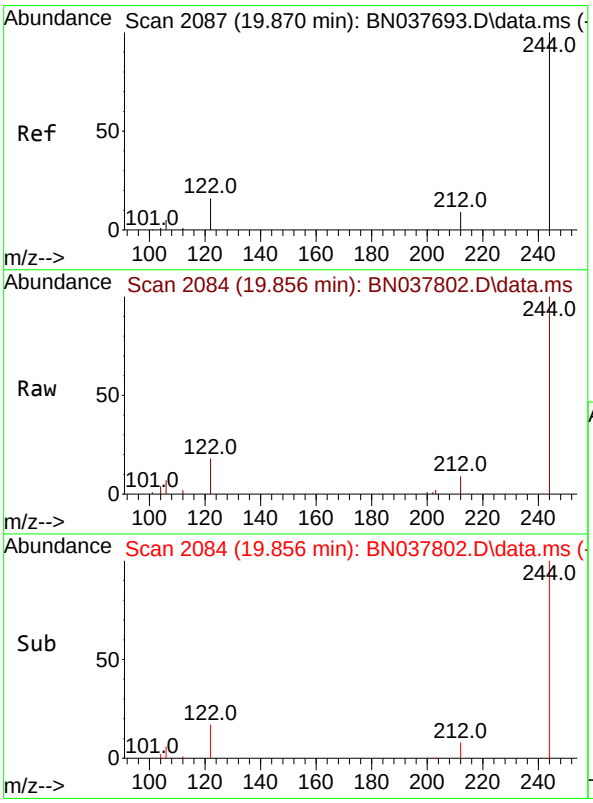
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

Tgt Ion:240 Resp: 9967

Ion	Ratio	Lower	Upper
240	100		
120	12.7	9.2	13.8
236	28.4	22.6	33.8

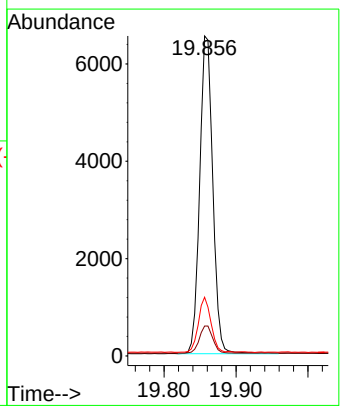


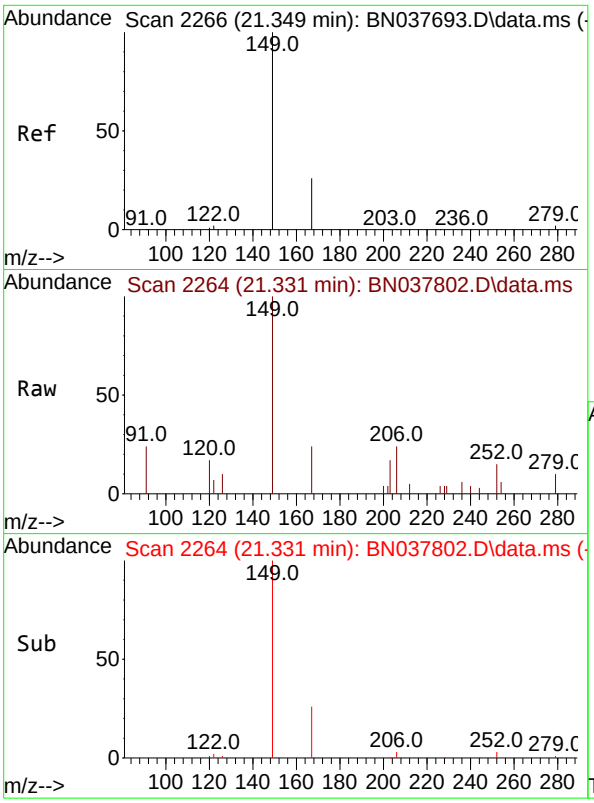


#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Tgt Ion:244 Resp: 8243

Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.5	11.3
122	18.4	13.2	19.8



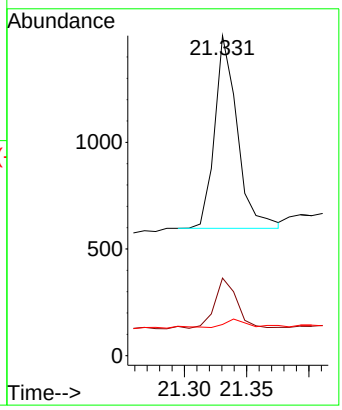


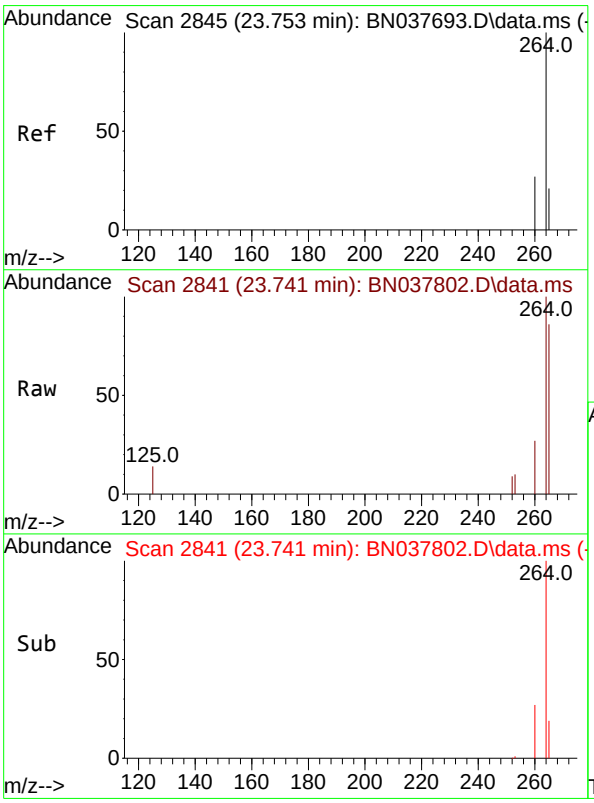
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.111 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

Tgt Ion:149 Resp: 1144

Ion	Ratio	Lower	Upper
149	100		
167	27.0	20.8	31.2
279	4.2	3.3	4.9

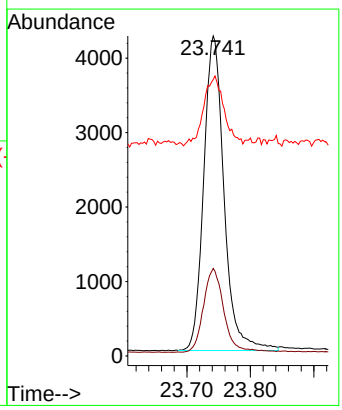




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Tgt Ion:264 Resp: 9393

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.8	32.8
265	86.4	39.4	59.2#



Raw Data: **BN037803.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP04-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-12	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037803.D	1	09/16/25 09:39	09/19/25 07:37	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.70		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6420	7.833				
1146-65-2	Naphthalene-d8	17000	10.637				
15067-26-2	Acenaphthene-d10	7440	14.484				
1517-22-2	Phenanthrene-d10	12900	17.235				
1719-03-5	Chrysene-d12	10800	21.411				
1520-96-3	Perylene-d12	9930	23.738				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **BN037803.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037803.D
Acq On : 19 Sep 2025 07:37
Operator : RC/JU
Sample : Q3097-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

Quant Time: Sep 19 08:02:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

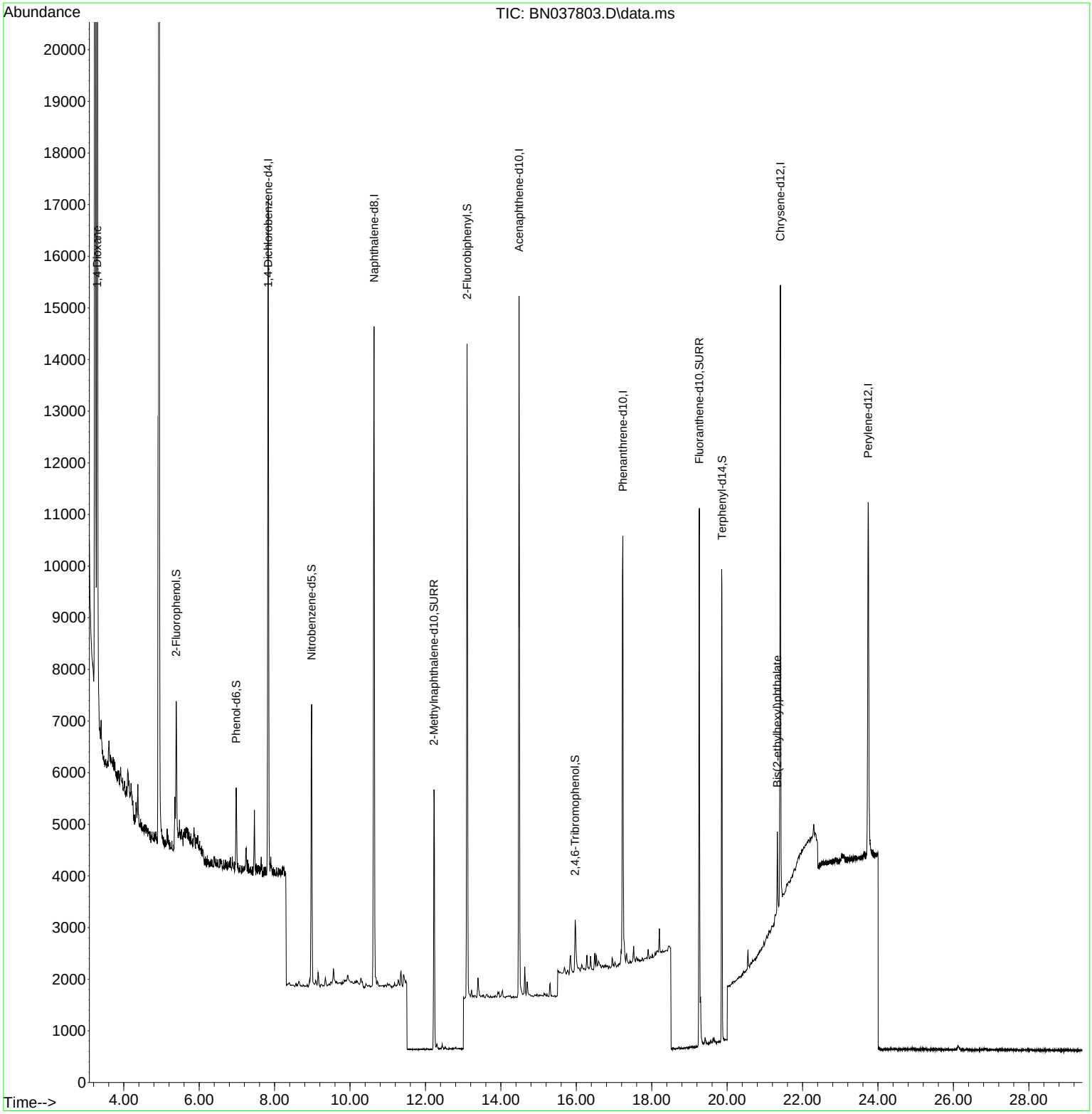
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6422	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	16969	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	7436	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12905	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10811	0.400	ng	0.00
35) Perylene-d12	23.738	264	9925	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	2057	0.140	ng	0.00
5) Phenol-d6	6.980	99	1389	0.073	ng	0.00
8) Nitrobenzene-d5	8.982	82	4366	0.352	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	6754	0.300	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	693	0.357	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	10701	0.344	ng	-0.01
27) Fluoranthene-d10	19.262	212	11673	0.360	ng	0.00
31) Terphenyl-d14	19.861	244	8702	0.397	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	24827	3.712	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	1471	0.132	ng	# 97

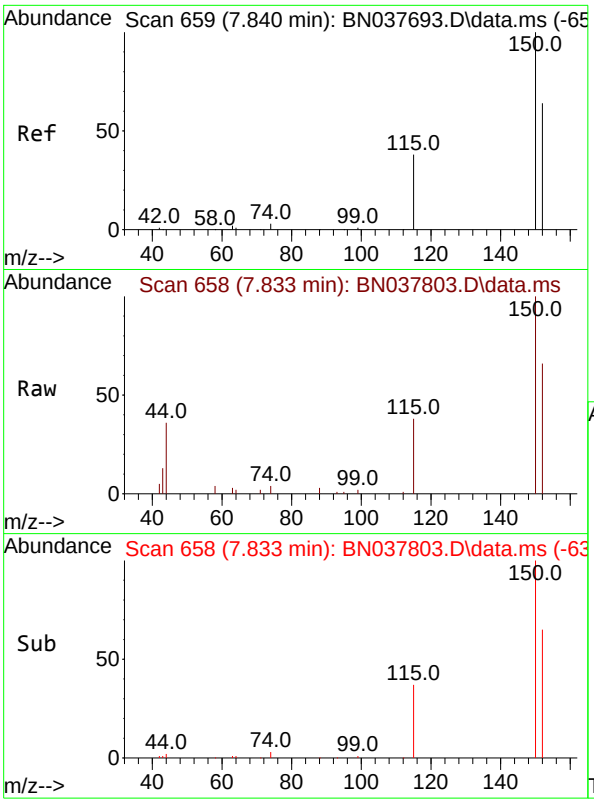
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037803.D
Acq On : 19 Sep 2025 07:37
Operator : RC/JU
Sample : Q3097-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

Quant Time: Sep 19 08:02:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



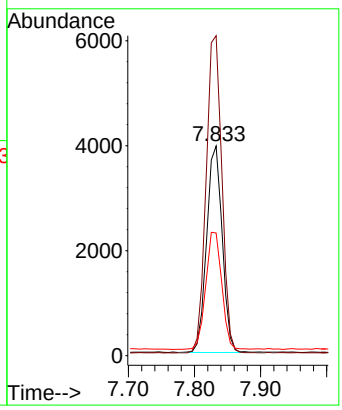


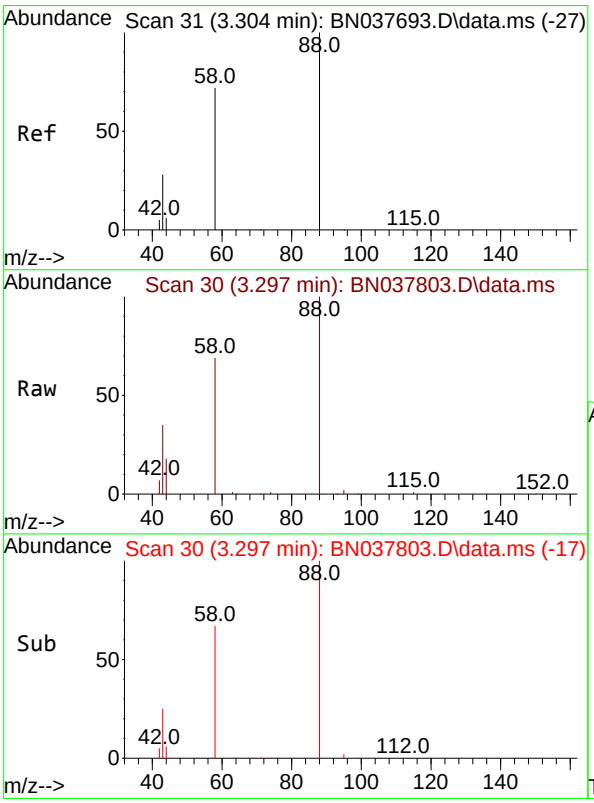
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

Tgt Ion:152 Resp: 6422

Ion	Ratio	Lower	Upper
152	100		
150	152.7	124.5	186.7
115	58.6	49.2	73.8

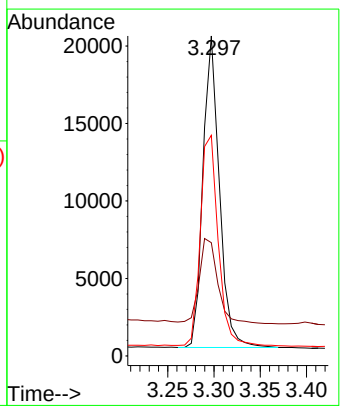


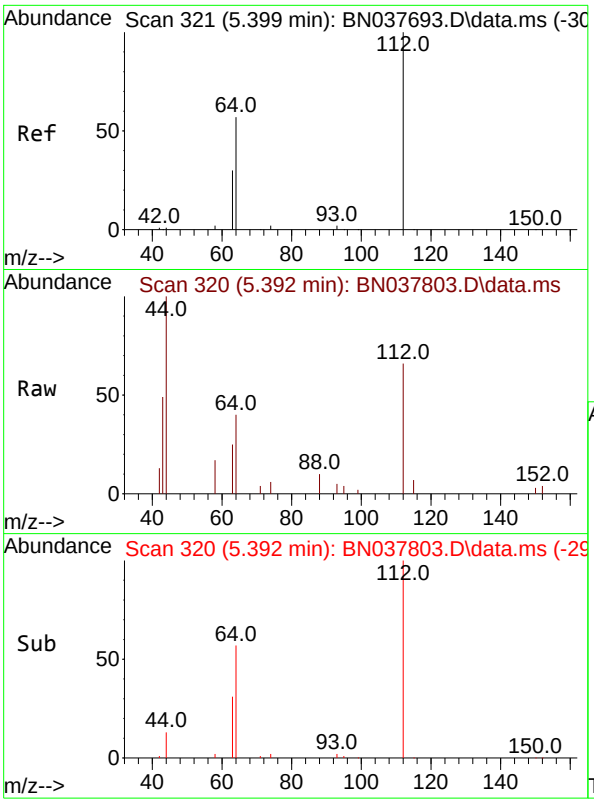


#2
1,4-Dioxane
Concen: 3.712 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Tgt Ion: 88 Resp: 24827

Ion	Ratio	Lower	Upper
88	100		
43	31.1	26.8	40.2
58	73.4	61.9	92.9



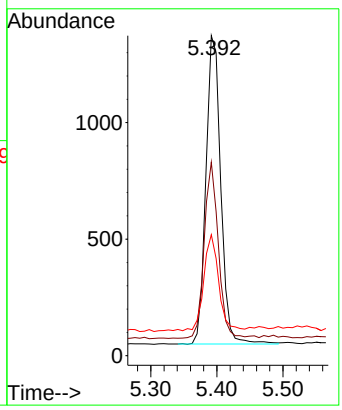


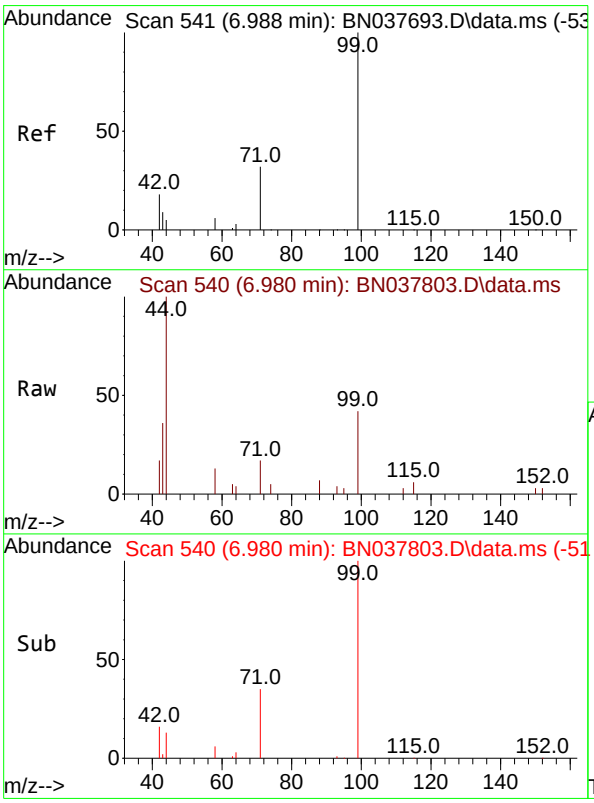
#4
2-Fluorophenol
Concen: 0.140 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

Tgt Ion:112 Resp: 2057

Ion	Ratio	Lower	Upper
112	100		
64	54.6	44.9	67.3
63	31.0	24.7	37.1

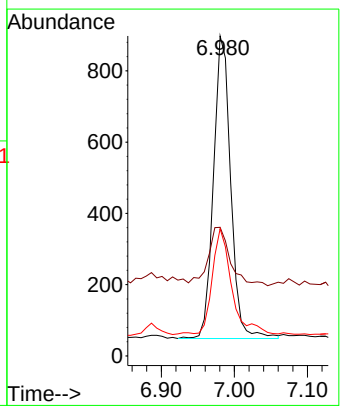


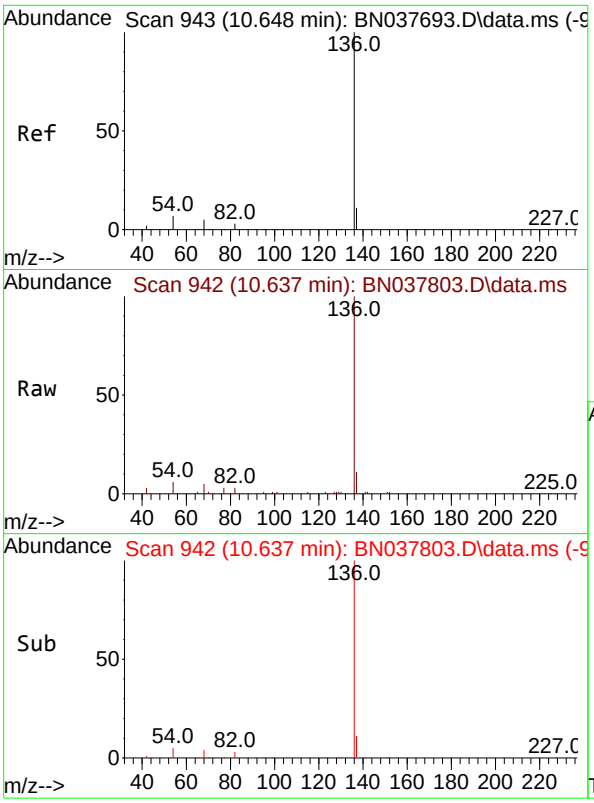


#5
Phenol-d6
Concen: 0.073 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Tgt Ion: 99 Resp: 1389

Ion	Ratio	Lower	Upper
99	100		
42	24.8	16.6	24.8
71	39.8	26.7	40.1



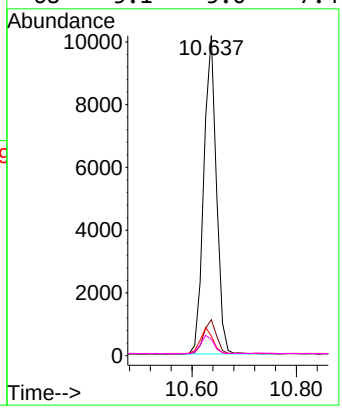


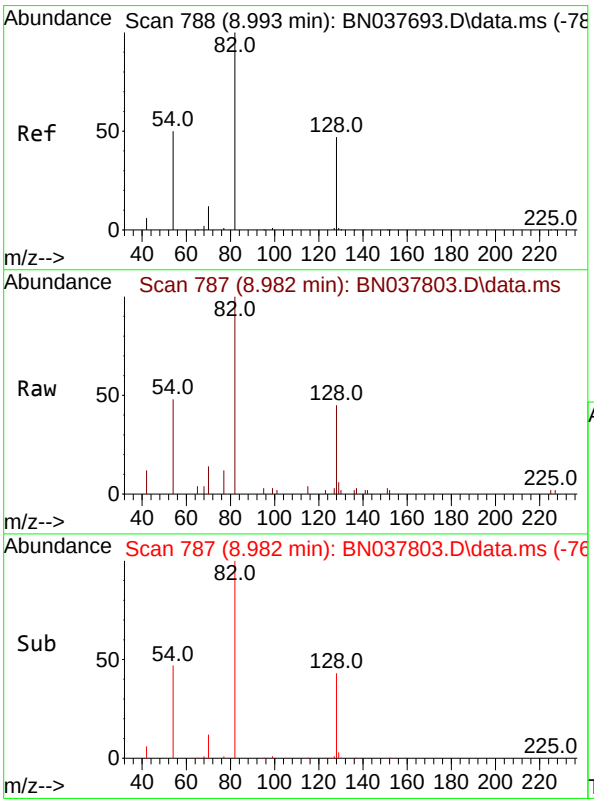
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

Tgt Ion:136 Resp: 16969

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.2	6.3	9.5#
68	5.1	5.0	7.4

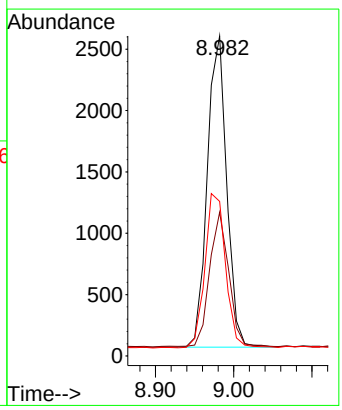


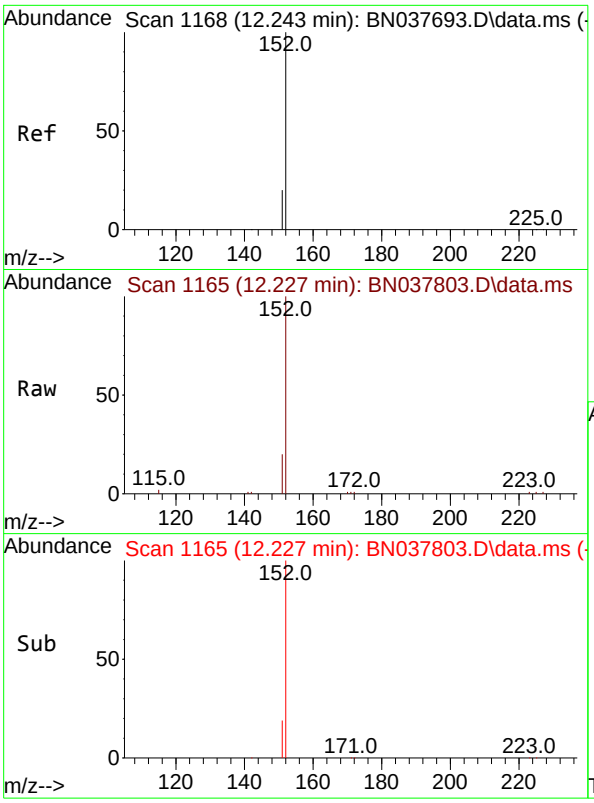


#8
Nitrobenzene-d5
Concen: 0.352 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Tgt Ion: 82 Resp: 4366

Ion	Ratio	Lower	Upper
82	100		
128	44.9	38.3	57.5
54	48.3	41.4	62.2



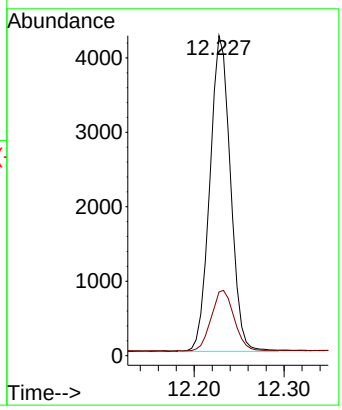


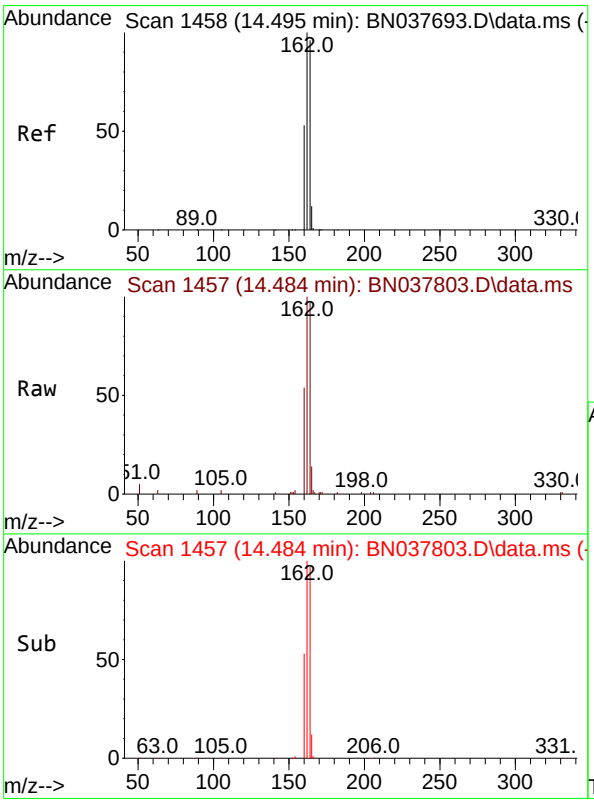
#11
2-Methylnaphthalene-d10
Concen: 0.300 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

Tgt Ion:152 Resp: 6754

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

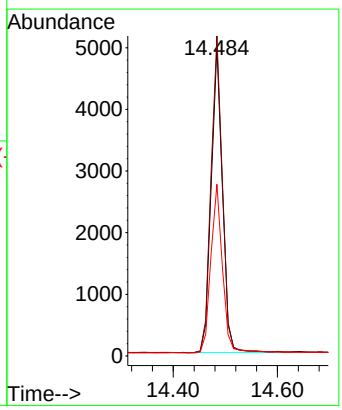


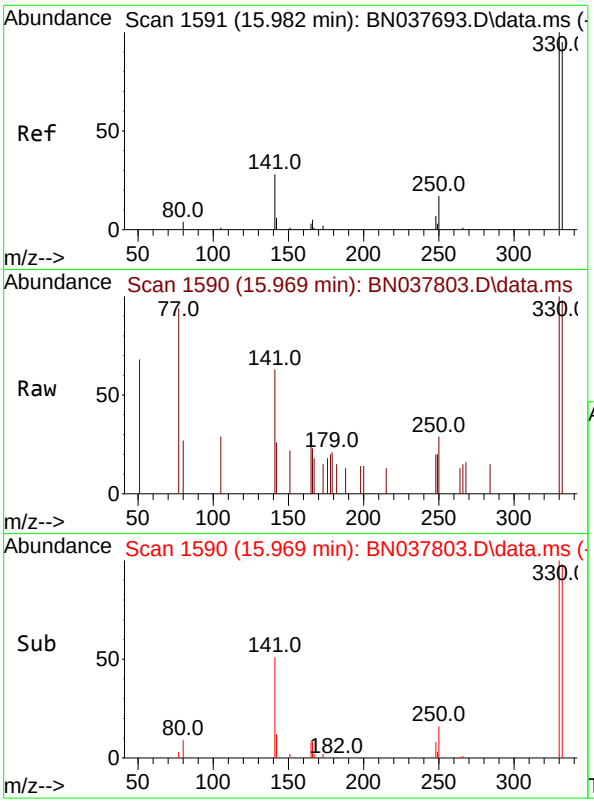


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Tgt Ion:164 Resp: 7436

Ion	Ratio	Lower	Upper
164	100		
162	103.4	83.1	124.7
160	55.5	44.3	66.5



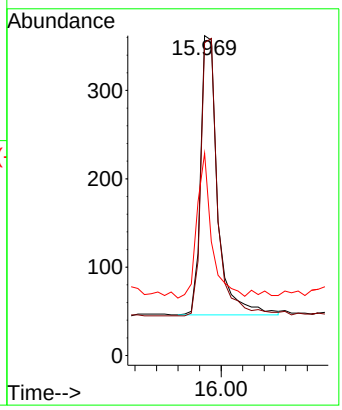


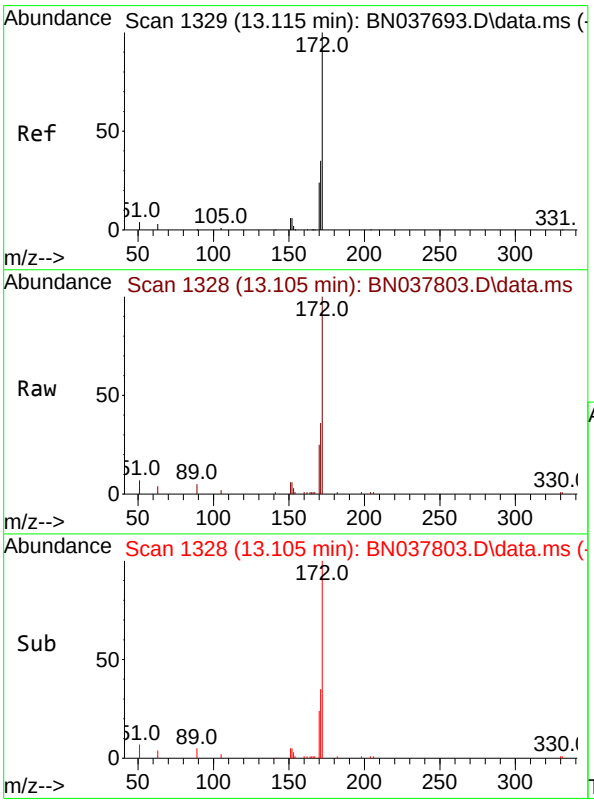
#14
2,4,6-Tribromophenol
Concen: 0.357 ng
RT: 15.969 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

Tgt Ion:330 Resp: 693

Ion	Ratio	Lower	Upper
330	100		
332	97.1	75.3	112.9
141	45.3	35.0	52.4

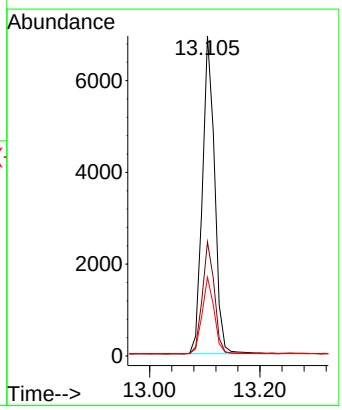


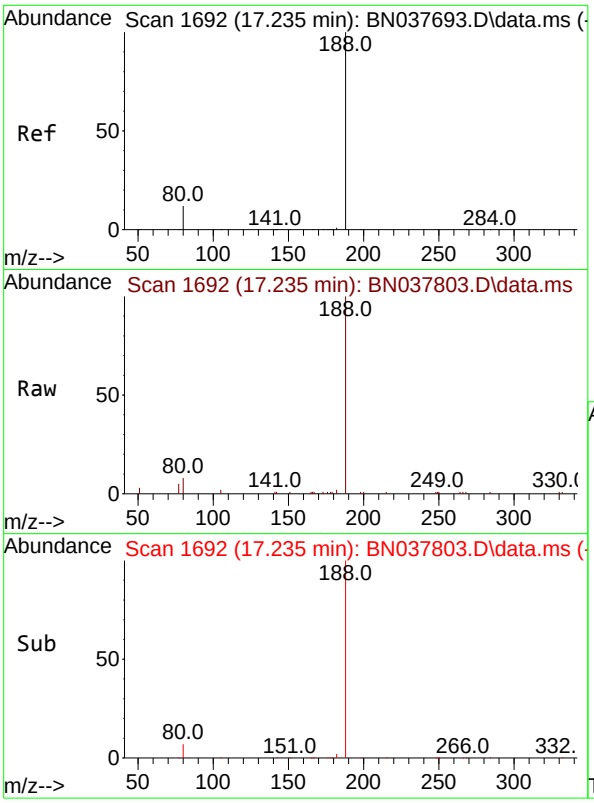


#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Tgt Ion:172 Resp: 10701

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	24.6	19.8	29.8



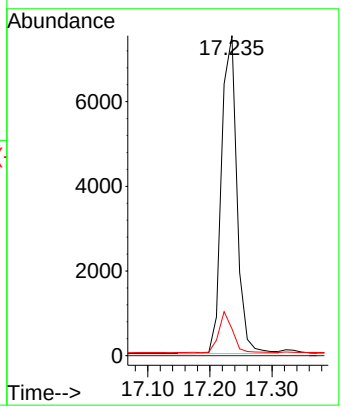


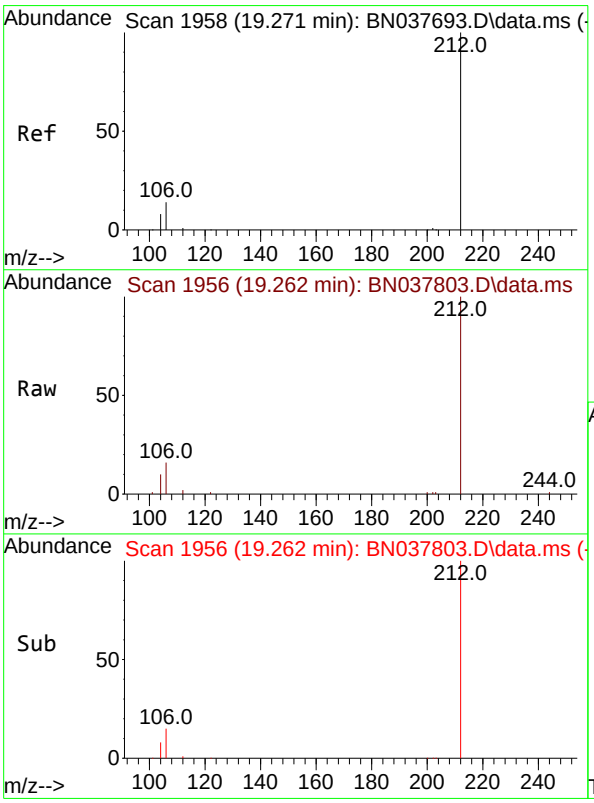
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

Tgt Ion:188 Resp: 12905

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	10.6	15.8#

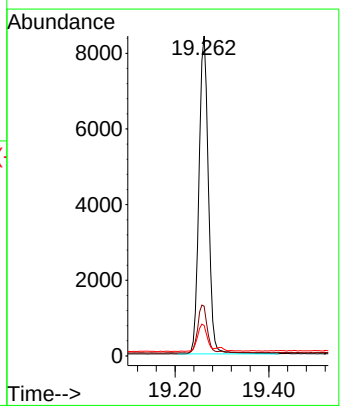


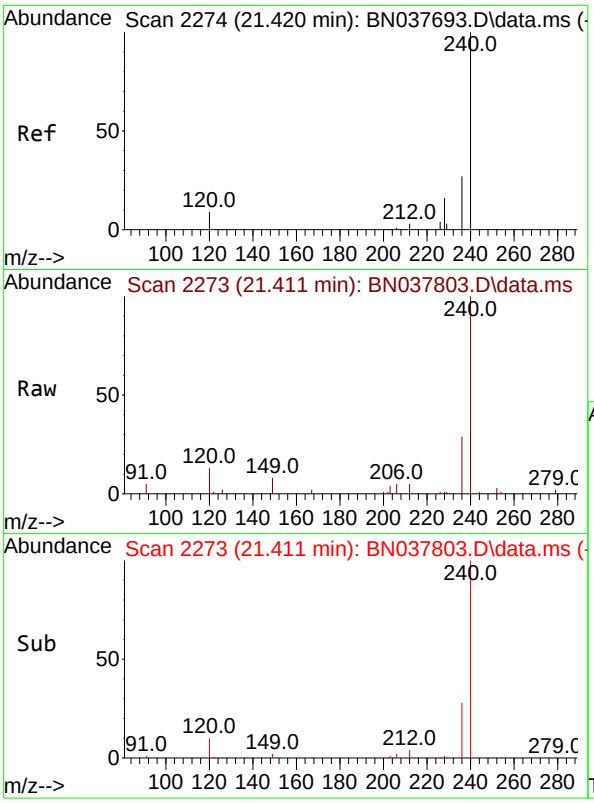


#27
Fluoranthene-d10
Concen: 0.360 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Tgt Ion:212 Resp: 11673

Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.2	18.2
104	8.8	6.9	10.3



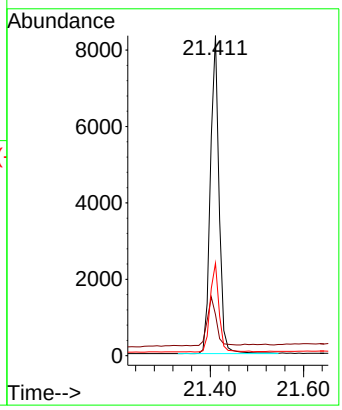


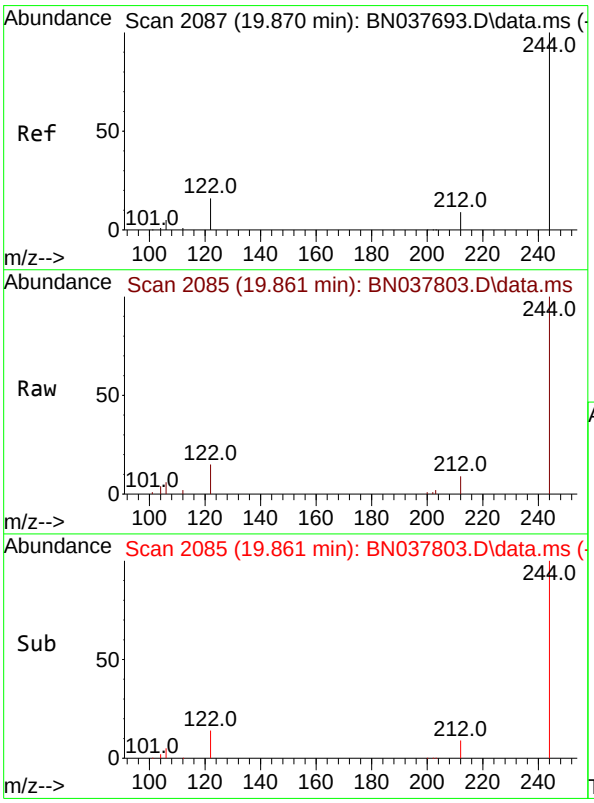
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

Tgt Ion:240 Resp: 10811

Ion	Ratio	Lower	Upper
240	100		
120	12.9	9.2	13.8
236	28.9	22.6	33.8

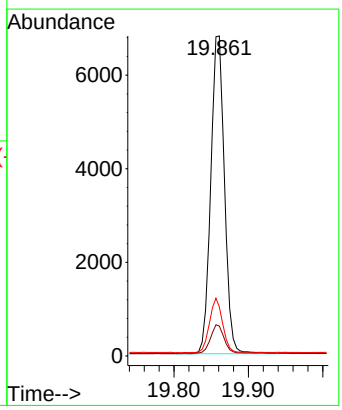


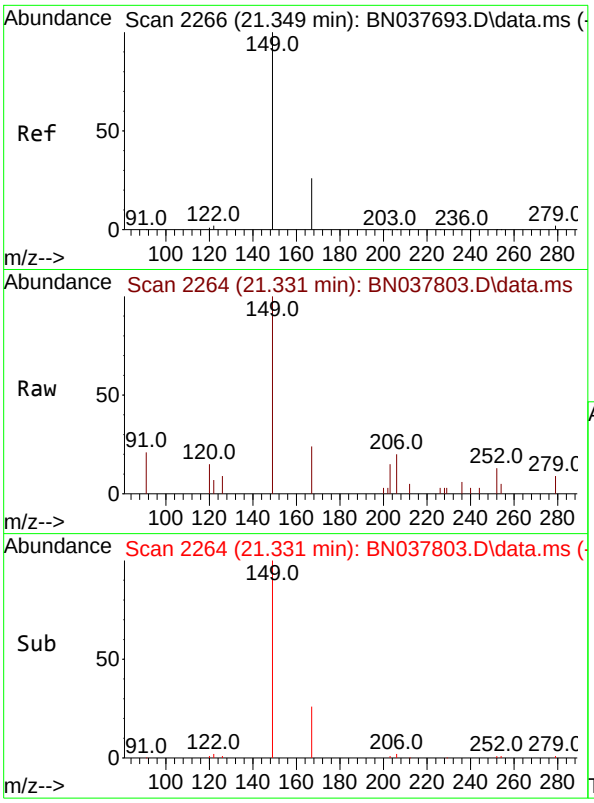


#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Tgt Ion:244 Resp: 8702

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	15.3	13.2	19.8



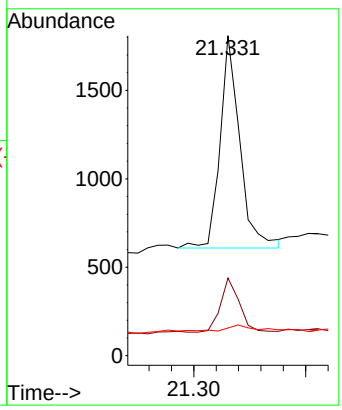


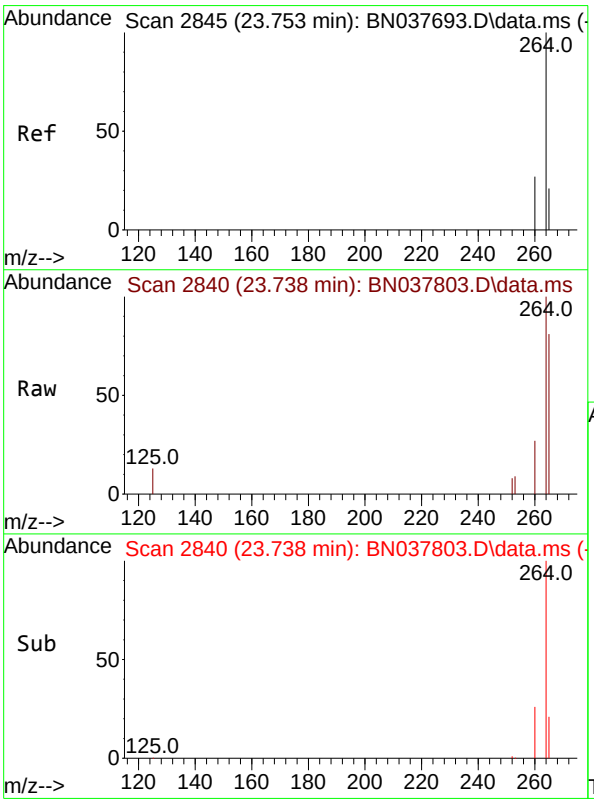
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.132 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

Tgt Ion:149 Resp: 1471

Ion	Ratio	Lower	Upper
149	100		
167	24.5	20.8	31.2
279	5.4	3.3	4.9#

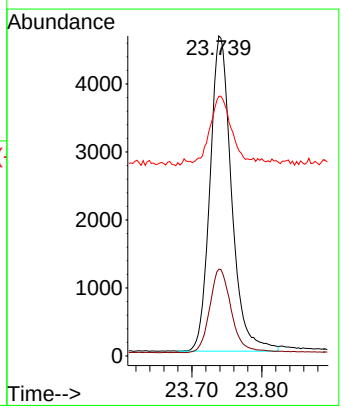




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Tgt Ion:264 Resp: 9925

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.8	32.8
265	81.2	39.4	59.2#



Raw Data: **BN037804.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP05-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-13	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037804.D	1	09/16/25 09:39	09/19/25 08:13	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.20	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		80%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		91%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5970	7.833				
1146-65-2	Naphthalene-d8	16000	10.637				
15067-26-2	Acenaphthene-d10	7280	14.484				
1517-22-2	Phenanthrene-d10	14100	17.235				
1719-03-5	Chrysene-d12	13300	21.411				
1520-96-3	Perylene-d12	12200	23.742				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **BN037804.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037804.D
Acq On : 19 Sep 2025 08:13
Operator : RC/JU
Sample : Q3097-13
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

Quant Time: Sep 19 11:08:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

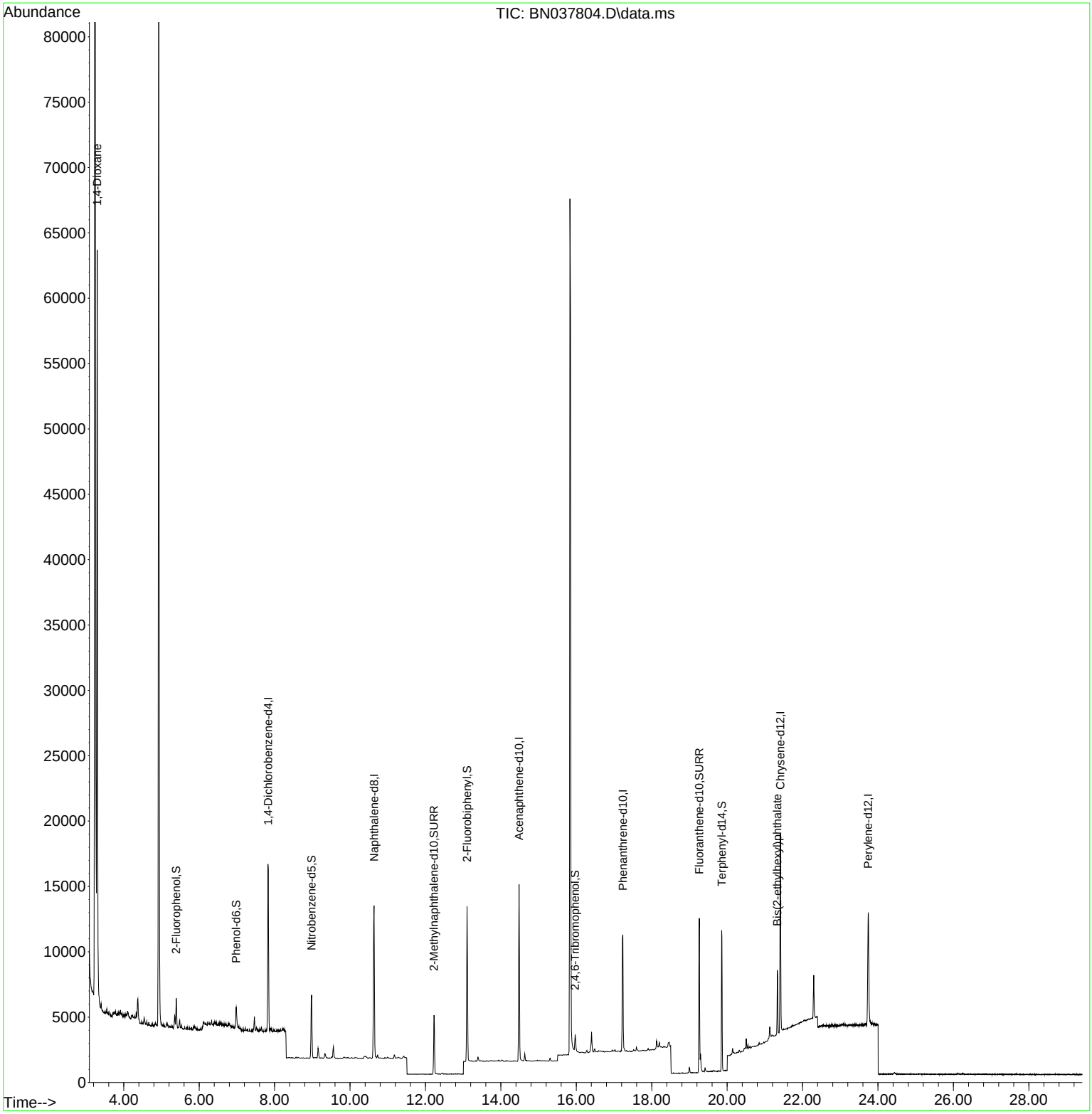
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5966	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15958	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7282	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	14121	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	13292	0.400	ng	0.00
35) Perylene-d12	23.742	264	12196	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1813	0.132	ng	0.00
5) Phenol-d6	6.981	99	1408	0.079	ng	0.00
8) Nitrobenzene-d5	8.982	82	3995	0.342	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	6164	0.292	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	788	0.415	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	9741	0.320	ng	-0.01
27) Fluoranthene-d10	19.262	212	13091	0.369	ng	0.00
31) Terphenyl-d14	19.857	244	9801	0.363	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	32500	5.230	ng	95
34) Bis(2-ethylhexyl)phtha...	21.331	149	4973	0.362	ng	100

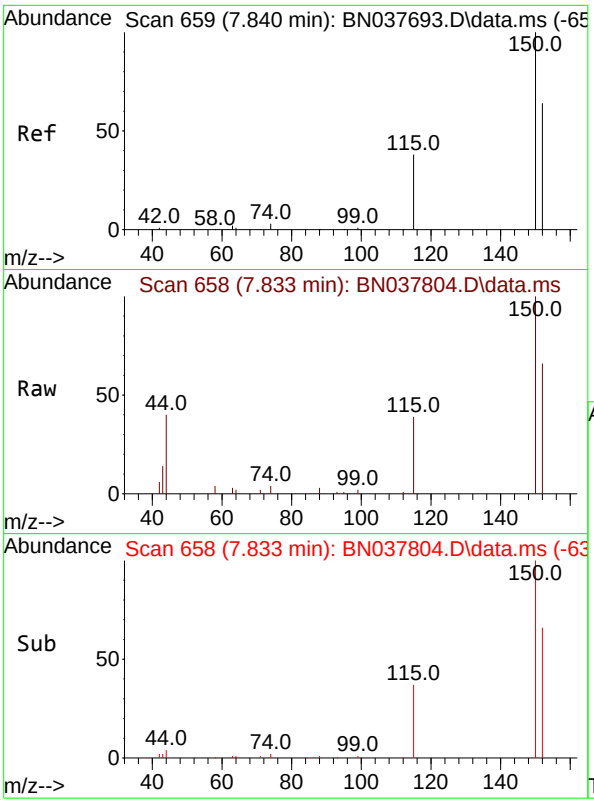
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037804.D
Acq On : 19 Sep 2025 08:13
Operator : RC/JU
Sample : Q3097-13
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

Quant Time: Sep 19 11:08:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



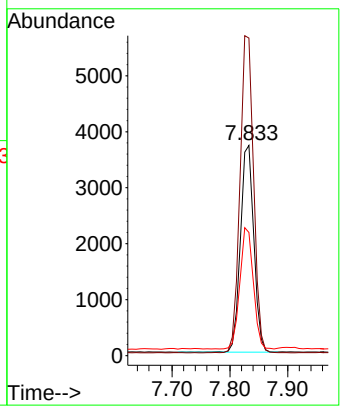


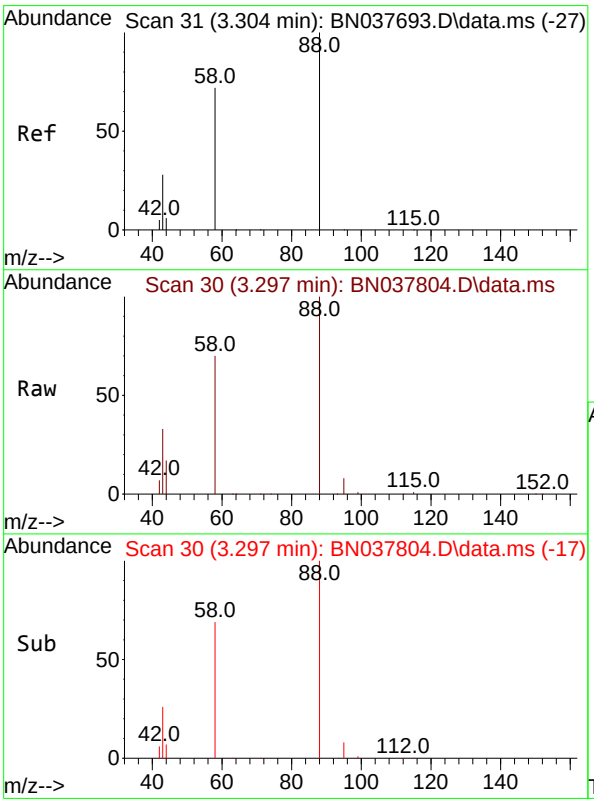
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

Tgt Ion:152 Resp: 5966

Ion	Ratio	Lower	Upper
152	100		
150	151.0	124.5	186.7
115	58.6	49.2	73.8

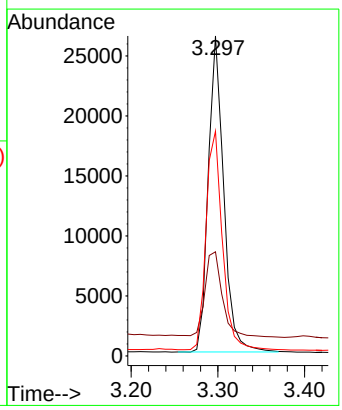


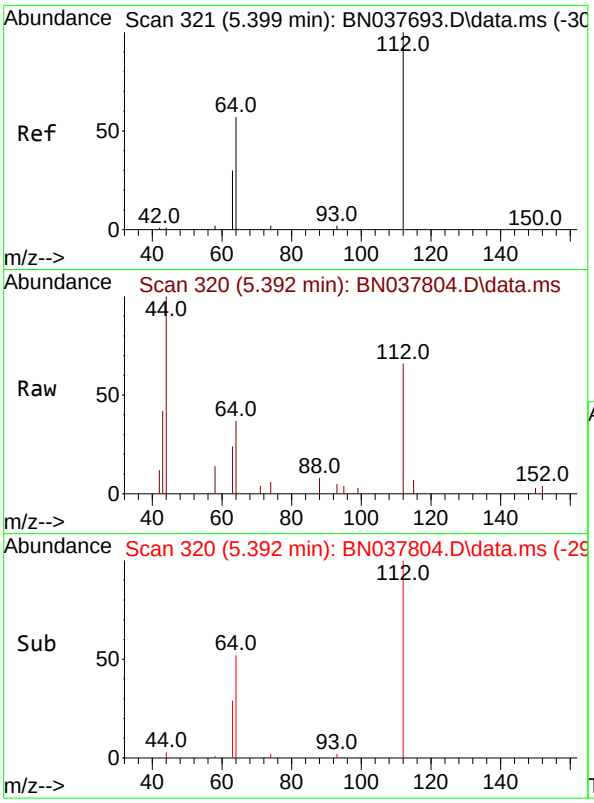


#2
1,4-Dioxane
Concen: 5.230 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Tgt Ion: 88 Resp: 32500

Ion	Ratio	Lower	Upper
88	100		
43	30.8	26.8	40.2
58	73.2	61.9	92.9



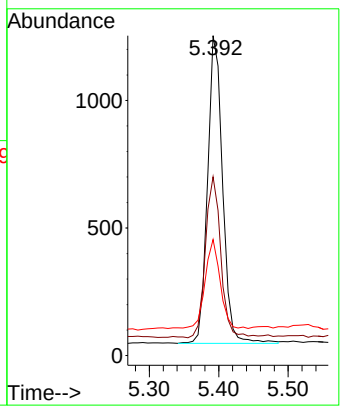


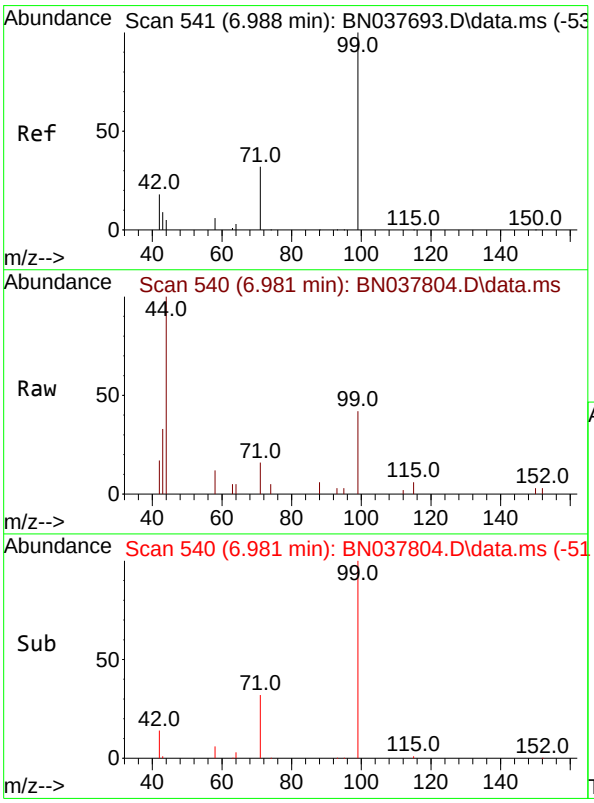
#4
2-Fluorophenol
Concen: 0.132 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

Tgt Ion:112 Resp: 1813

Ion	Ratio	Lower	Upper
112	100		
64	53.6	44.9	67.3
63	30.3	24.7	37.1

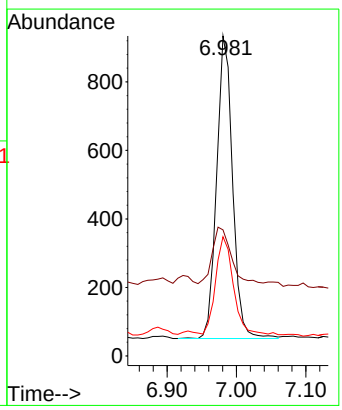


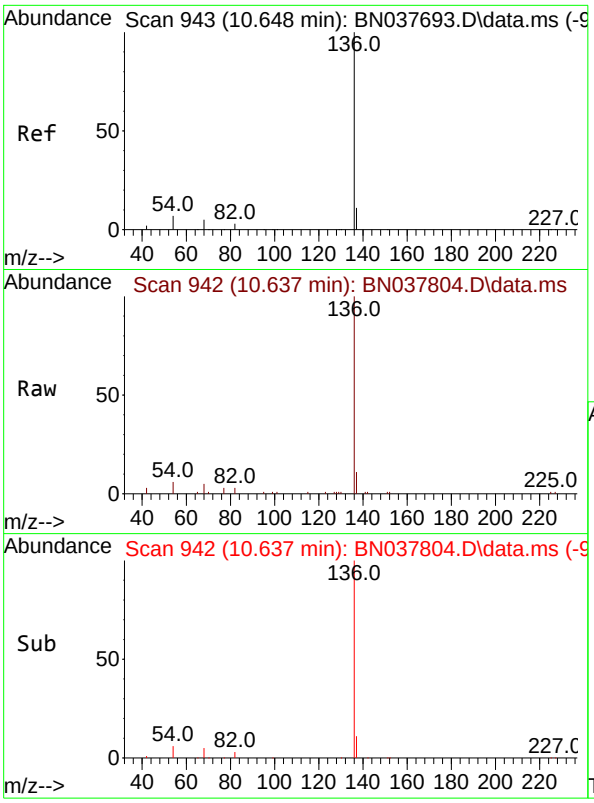


#5
Phenol-d6
Concen: 0.079 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Tgt Ion: 99 Resp: 1408

Ion	Ratio	Lower	Upper
99	100		
42	21.5	16.6	24.8
71	37.4	26.7	40.1



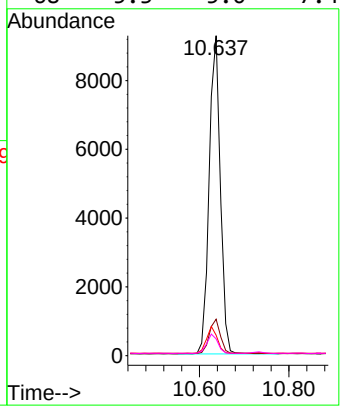


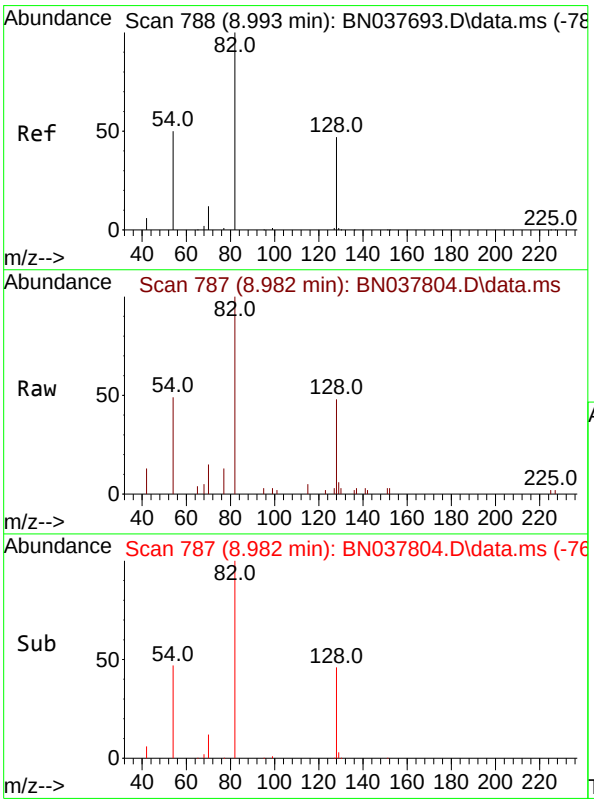
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

Tgt Ion:136 Resp: 15958

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	6.4	6.3	9.5
68	5.3	5.0	7.4

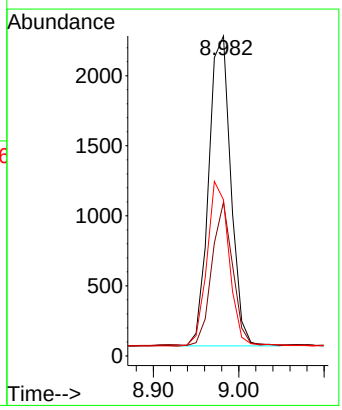


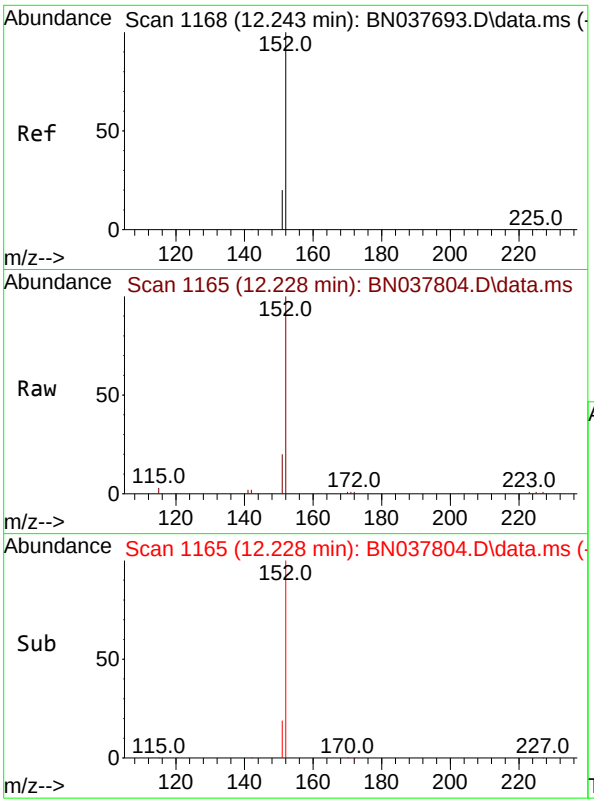


#8
Nitrobenzene-d5
Concen: 0.342 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Tgt Ion: 82 Resp: 3995

Ion	Ratio	Lower	Upper
82	100		
128	48.1	38.3	57.5
54	48.8	41.4	62.2



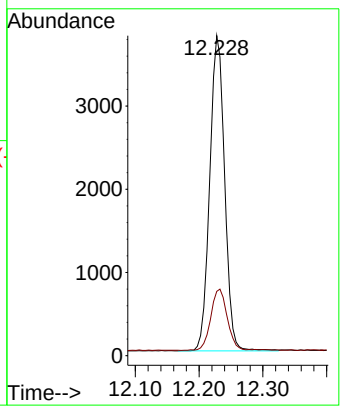


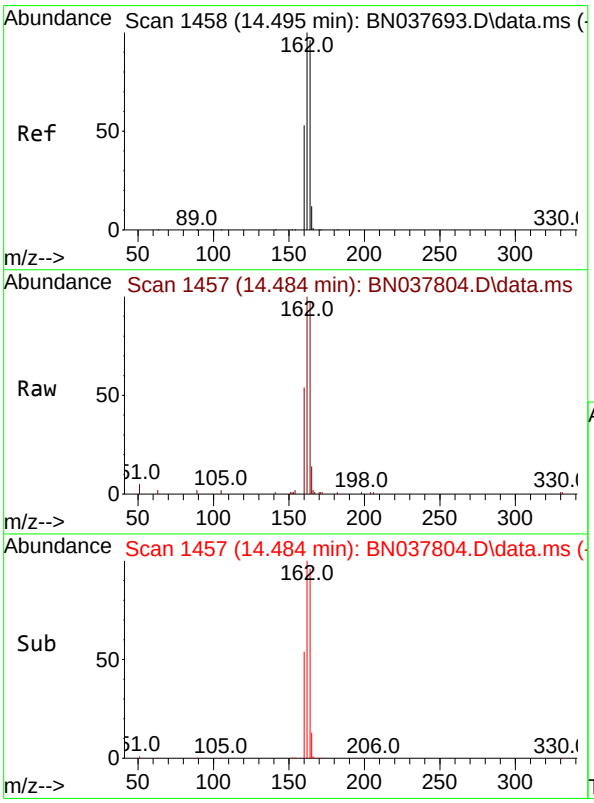
#11
2-Methylnaphthalene-d10
Concen: 0.292 ng
RT: 12.228 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

Tgt Ion:152 Resp: 6164

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.0	25.6

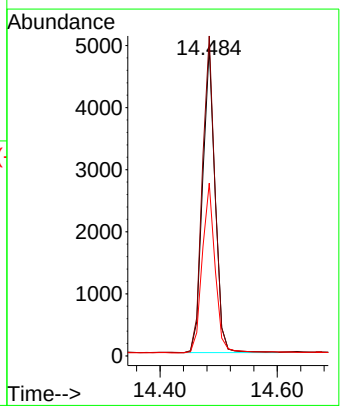


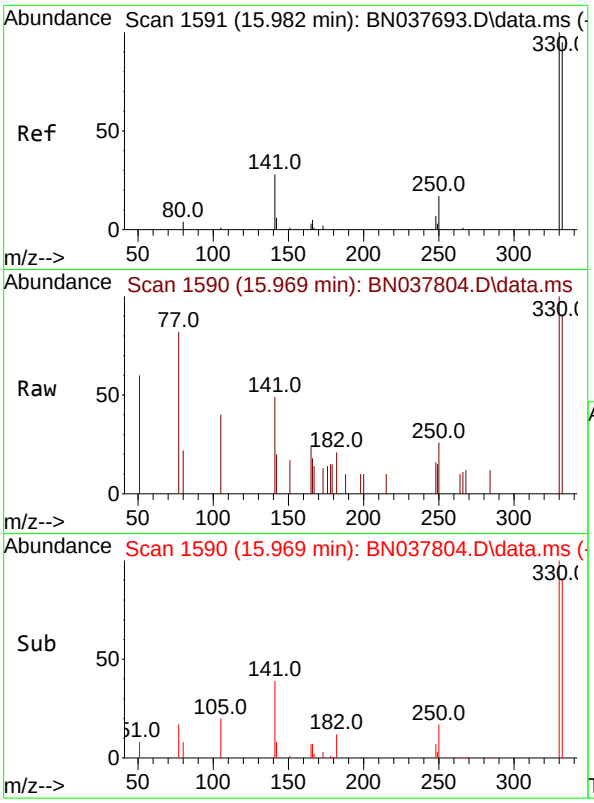


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Tgt Ion:164 Resp: 7282

Ion	Ratio	Lower	Upper
164	100		
162	103.6	83.1	124.7
160	56.0	44.3	66.5



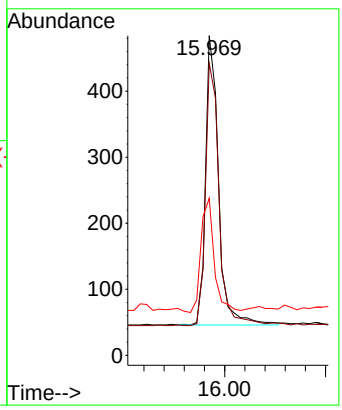


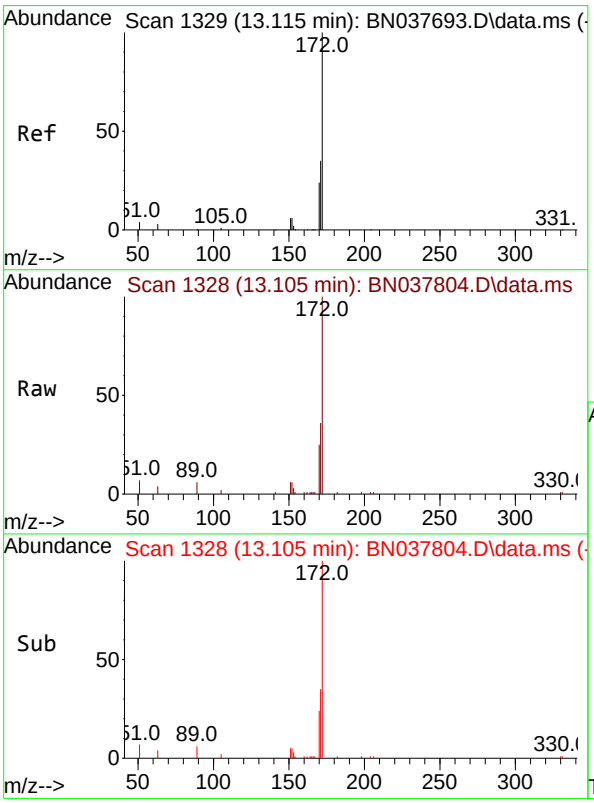
#14
2,4,6-Tribromophenol
Concen: 0.415 ng
RT: 15.969 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

Tgt Ion:330 Resp: 788

Ion	Ratio	Lower	Upper
330	100		
332	94.9	75.3	112.9
141	40.2	35.0	52.4

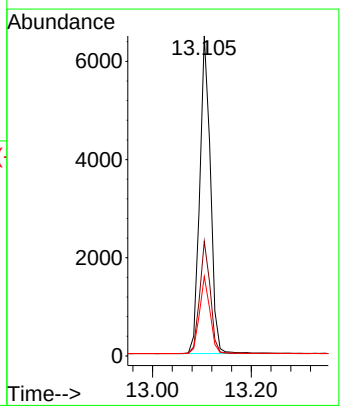


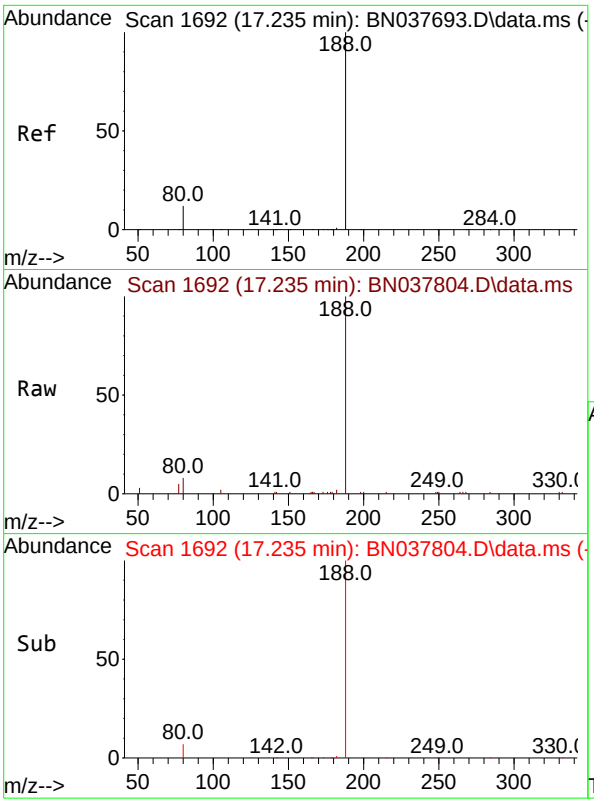


#15
2-Fluorobiphenyl
Concen: 0.320 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Tgt Ion:172 Resp: 9741

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	24.9	19.8	29.8



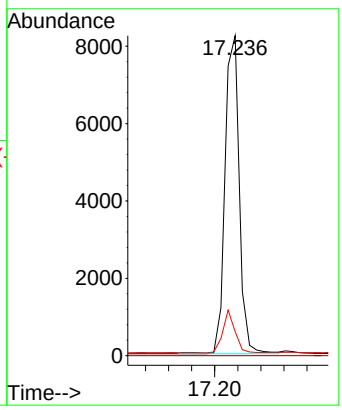


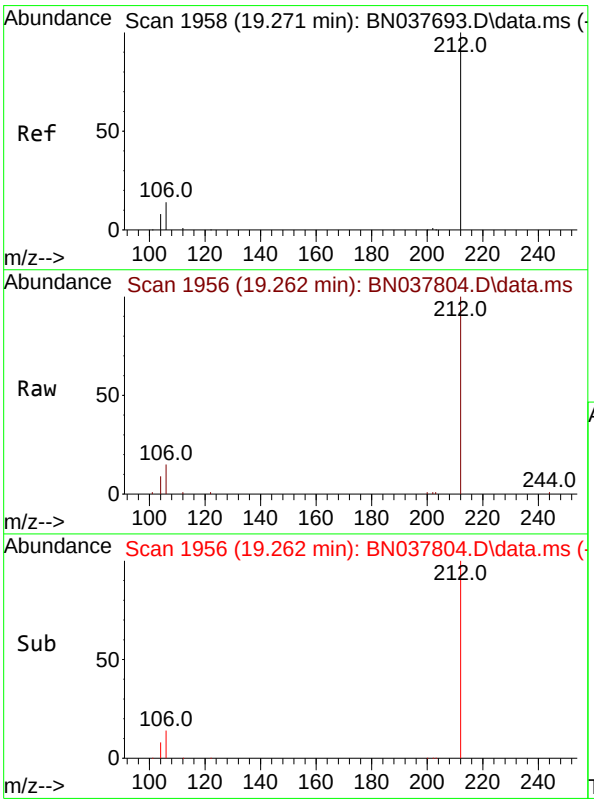
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

Tgt Ion:188 Resp: 14121

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.5	10.6	15.8#

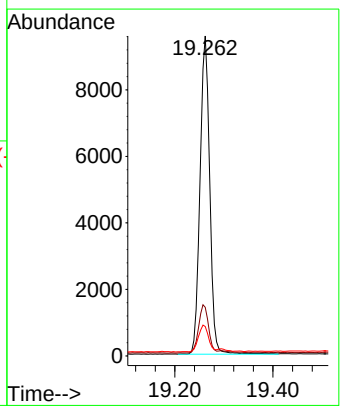


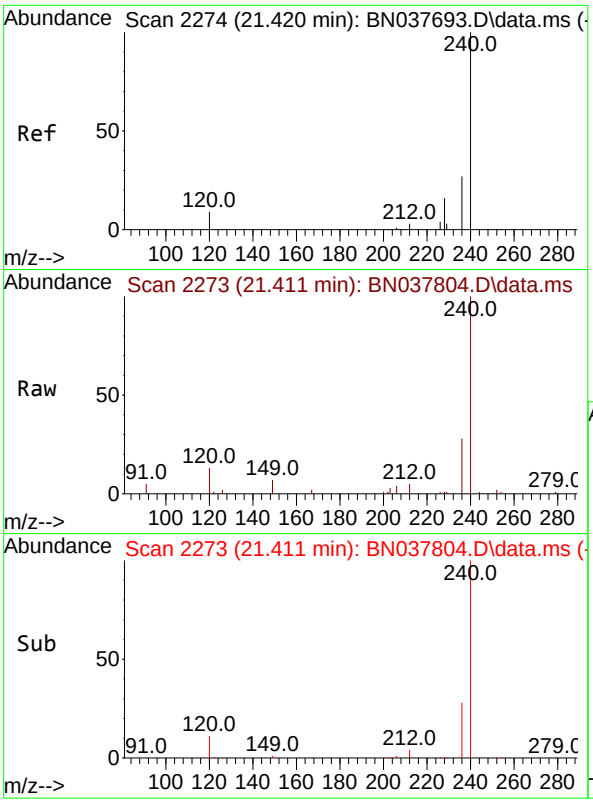


#27
Fluoranthene-d10
Concen: 0.369 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Tgt Ion:212 Resp: 13091

Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.2	18.2
104	8.7	6.9	10.3



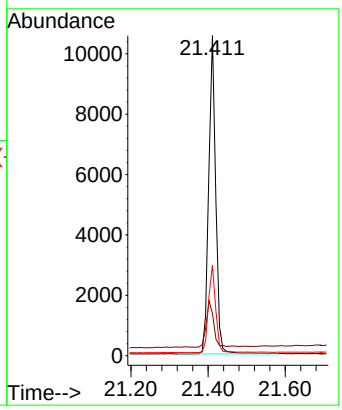


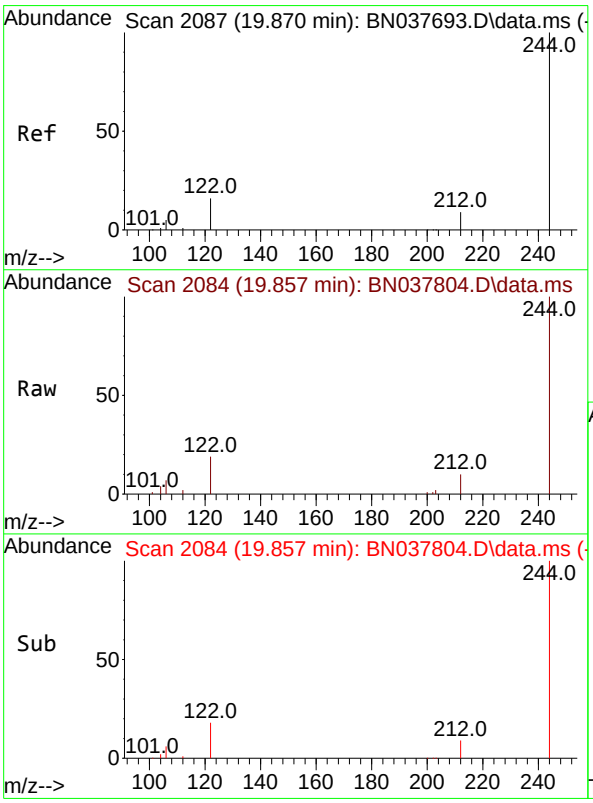
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

Tgt Ion:240 Resp: 13292

Ion	Ratio	Lower	Upper
240	100		
120	13.2	9.2	13.8
236	28.3	22.6	33.8

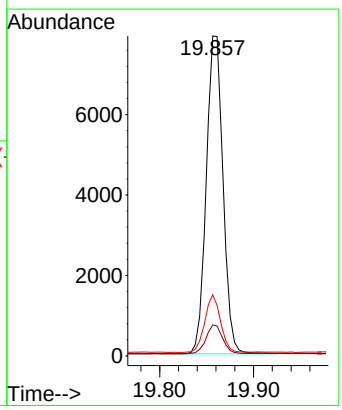


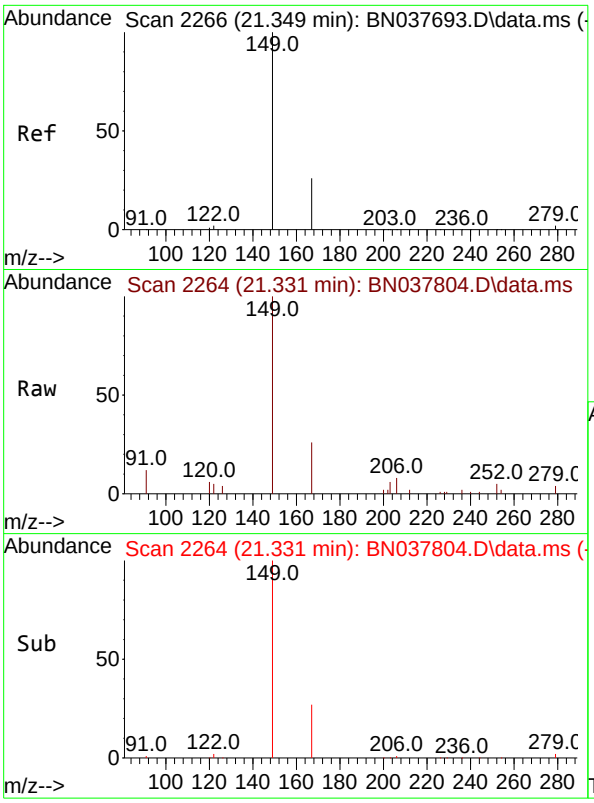


#31
Terphenyl-d14
Concen: 0.363 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Tgt Ion:244 Resp: 9801

Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.5	11.3
122	19.1	13.2	19.8



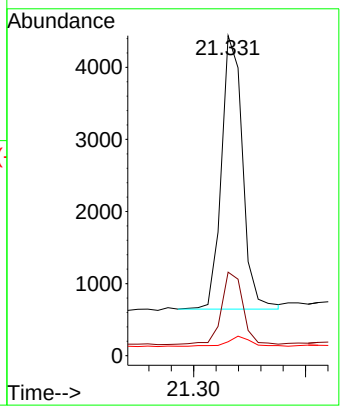


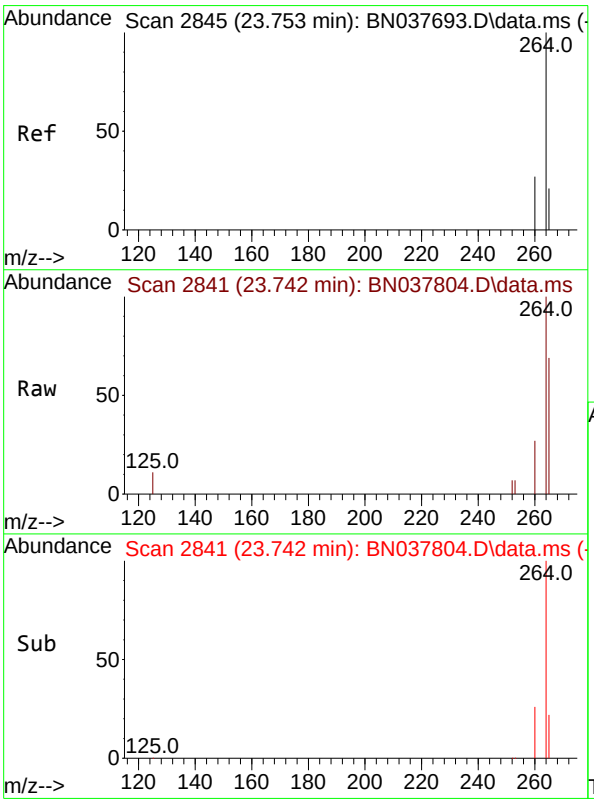
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.362 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

Tgt Ion:149 Resp: 4973

Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.8	31.2
279	3.8	3.3	4.9

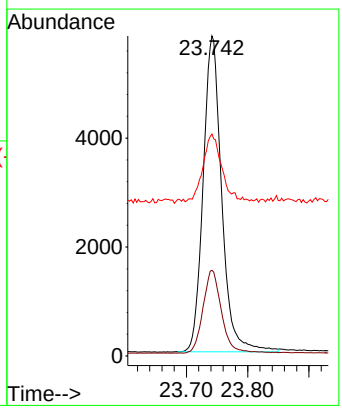




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.742 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Tgt Ion:264 Resp: 12196

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.8	32.8
265	69.3	39.4	59.2#



Raw Data: **BN037817.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP05-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-13DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037817.D	2	09/16/25 09:39	09/19/25 16:45	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.50	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		89%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5660	7.833				
1146-65-2	Naphthalene-d8	14800	10.637				
15067-26-2	Acenaphthene-d10	6210	14.484				
1517-22-2	Phenanthrene-d10	10700	17.236				
1719-03-5	Chrysene-d12	9110	21.411				
1520-96-3	Perylene-d12	8980	23.744				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037817.D
Acq On : 19 Sep 2025 16:45
Operator : RC/JU
Sample : Q3097-13DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

Quant Time: Sep 19 17:15:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

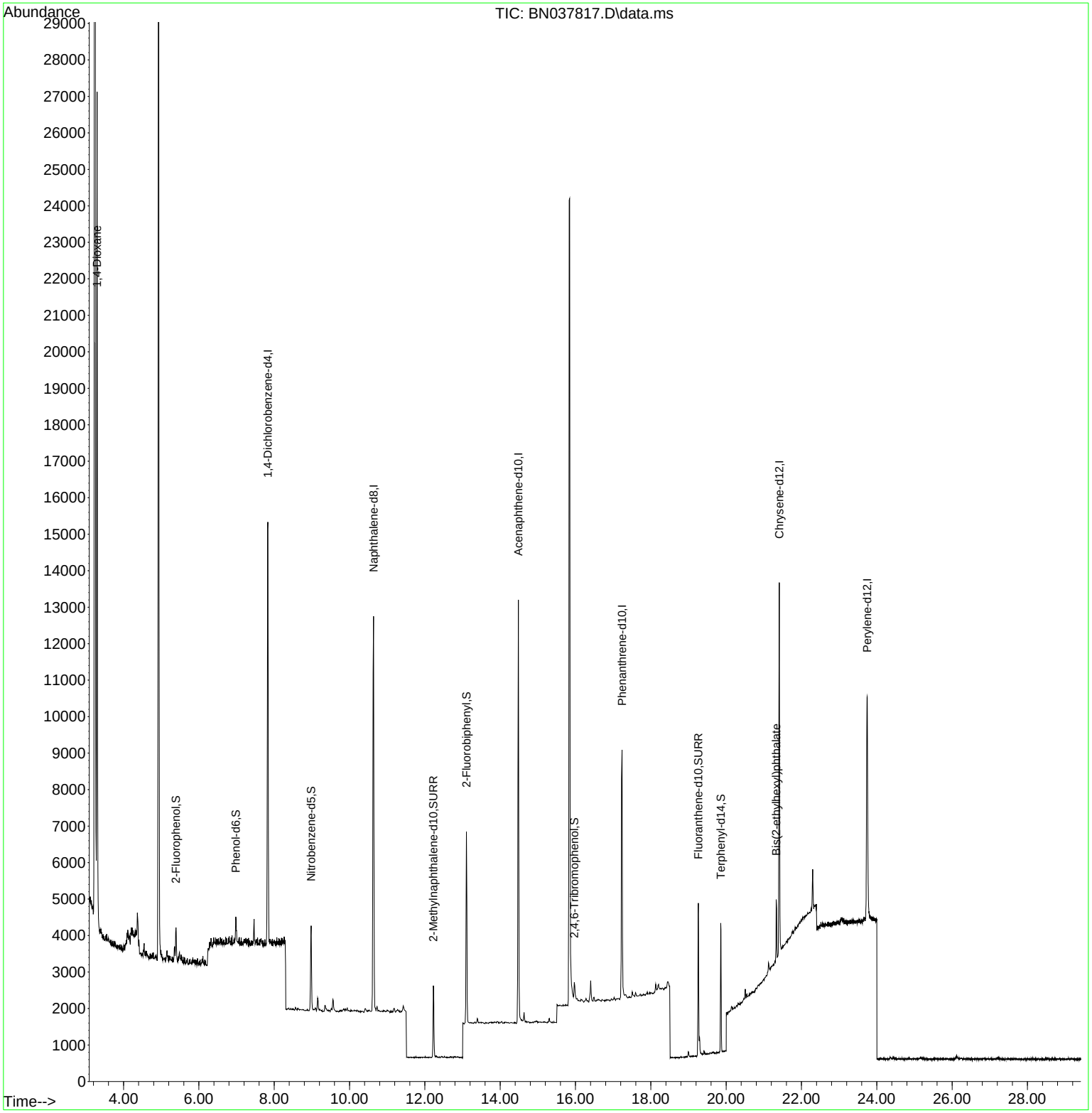
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5661	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	14750	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	6209	0.400	ng	-0.01
19) Phenanthrene-d10	17.236	188	10700	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	9109	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	8982	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	744	0.057	ng	0.00
5) Phenol-d6	6.981	99	644	0.038	ng	0.00
8) Nitrobenzene-d5	8.982	82	1914	0.177	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	2732	0.140	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	299	0.185	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	4337	0.167	ng	-0.01
27) Fluoranthene-d10	19.262	212	4509	0.168	ng	0.00
31) Terphenyl-d14	19.857	244	3298	0.178	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	13131	2.227	ng	95
34) Bis(2-ethylhexyl)phtha...	21.331	149	1758	0.187	ng	# 96

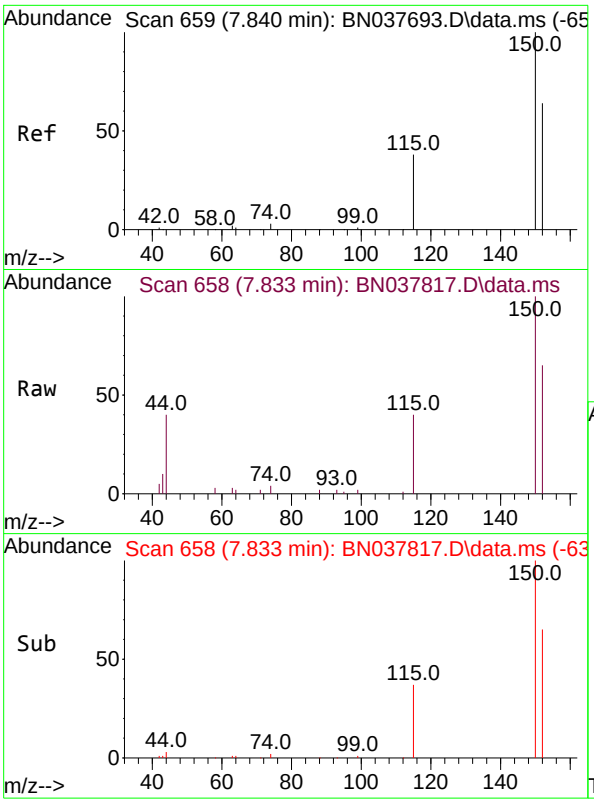
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037817.D
Acq On : 19 Sep 2025 16:45
Operator : RC/JU
Sample : Q3097-13DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

Quant Time: Sep 19 17:15:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



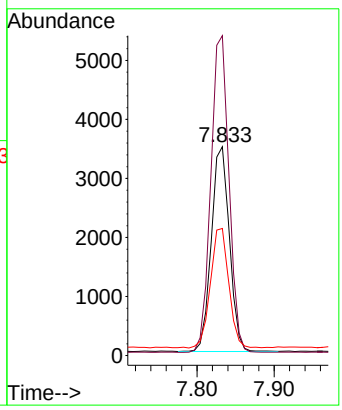


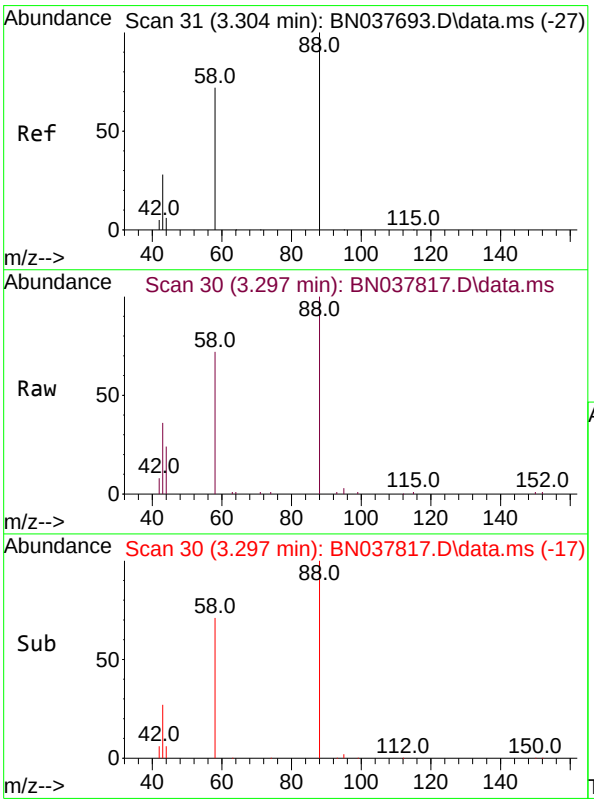
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

Tgt Ion:152 Resp: 5661

Ion	Ratio	Lower	Upper
152	100		
150	153.2	124.5	186.7
115	60.8	49.2	73.8

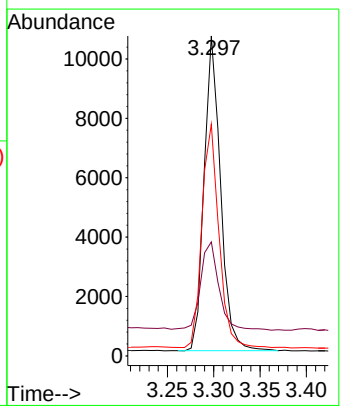


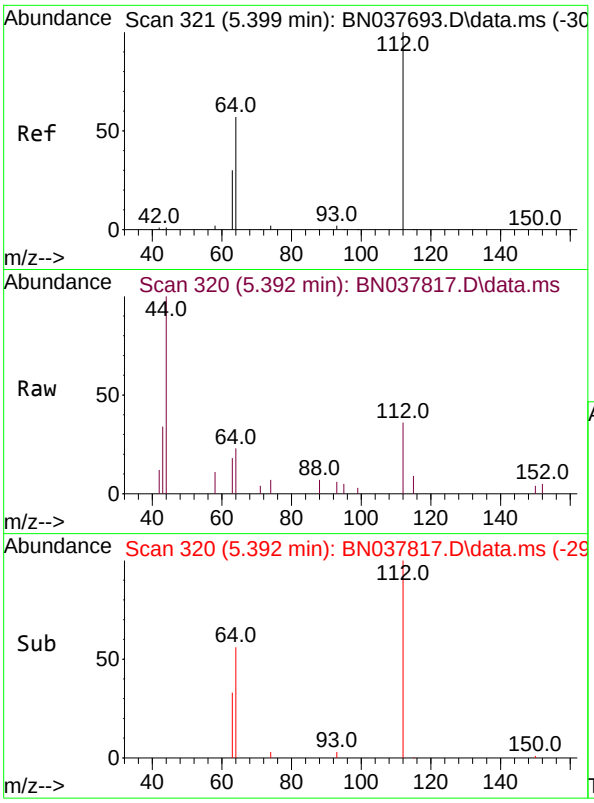


#2
1,4-Dioxane
Concen: 2.227 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Tgt Ion: 88 Resp: 13131

Ion	Ratio	Lower	Upper
88	100		
43	31.5	26.8	40.2
58	72.9	61.9	92.9



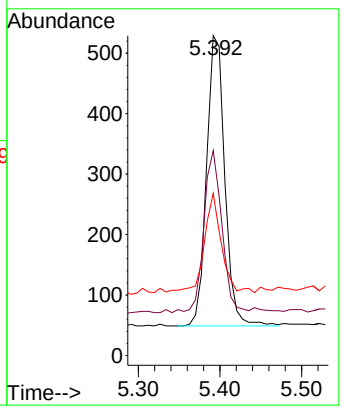


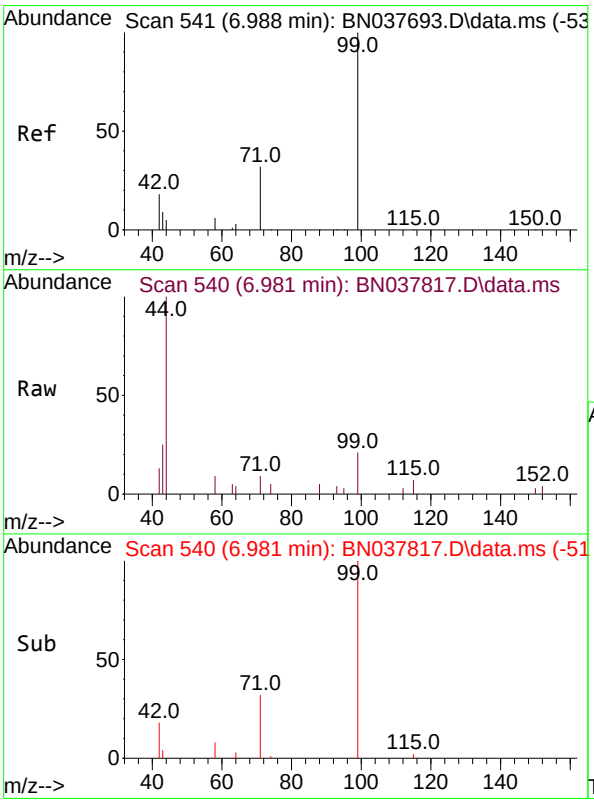
#4
2-Fluorophenol
Concen: 0.057 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

Tgt Ion:112 Resp: 744

Ion	Ratio	Lower	Upper
112	100		
64	55.0	44.9	67.3
63	30.1	24.7	37.1

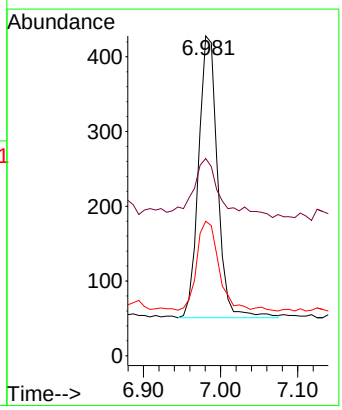


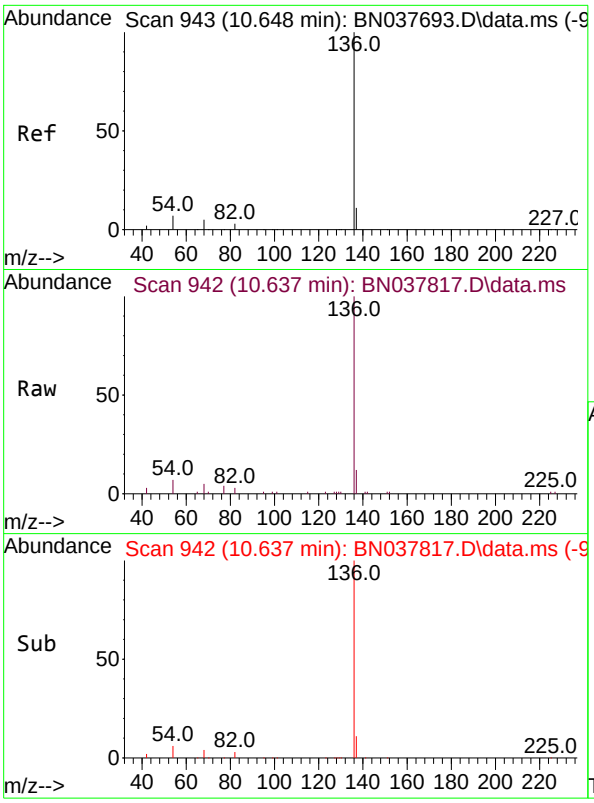


#5
Phenol-d6
Concen: 0.038 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Tgt Ion: 99 Resp: 644

Ion	Ratio	Lower	Upper
99	100		
42	30.3	16.6	24.8#
71	36.2	26.7	40.1



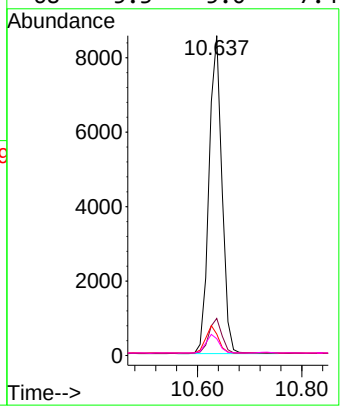


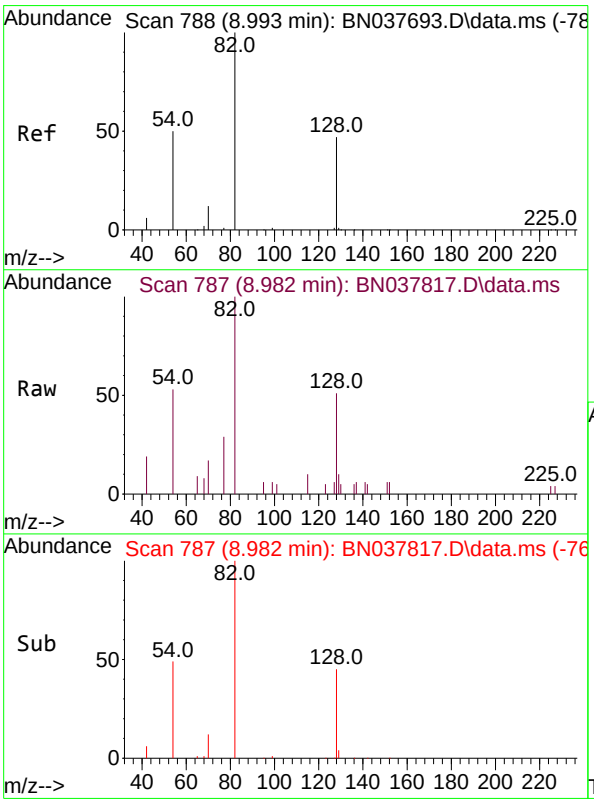
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

Tgt Ion:136 Resp: 14750

Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	6.7	6.3	9.5
68	5.3	5.0	7.4

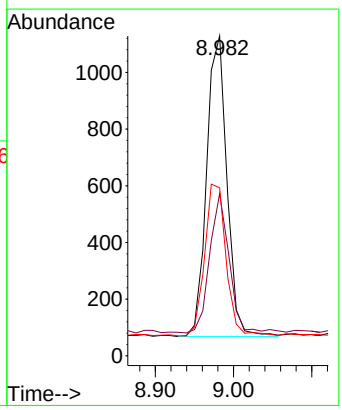


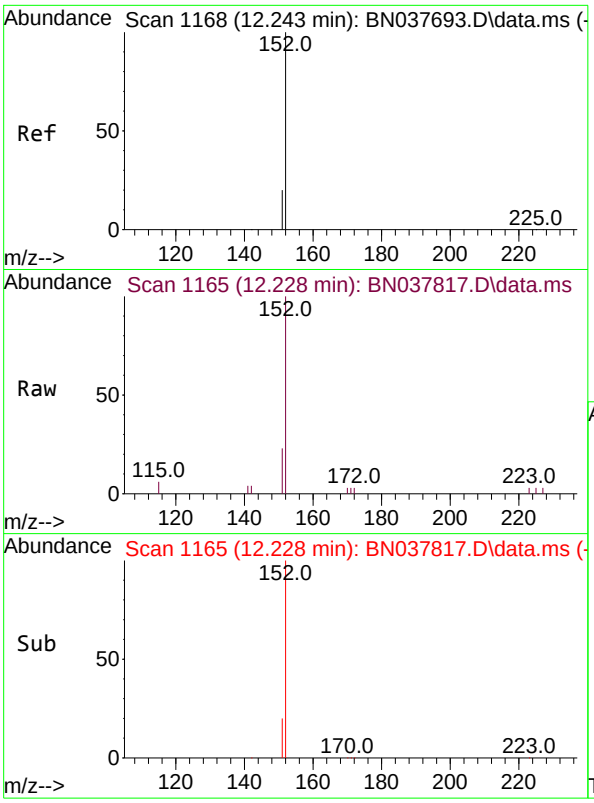


#8
Nitrobenzene-d5
Concen: 0.177 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Tgt Ion: 82 Resp: 1914

Ion	Ratio	Lower	Upper
82	100		
128	50.7	38.3	57.5
54	52.5	41.4	62.2



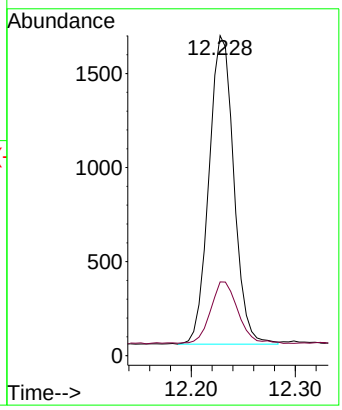


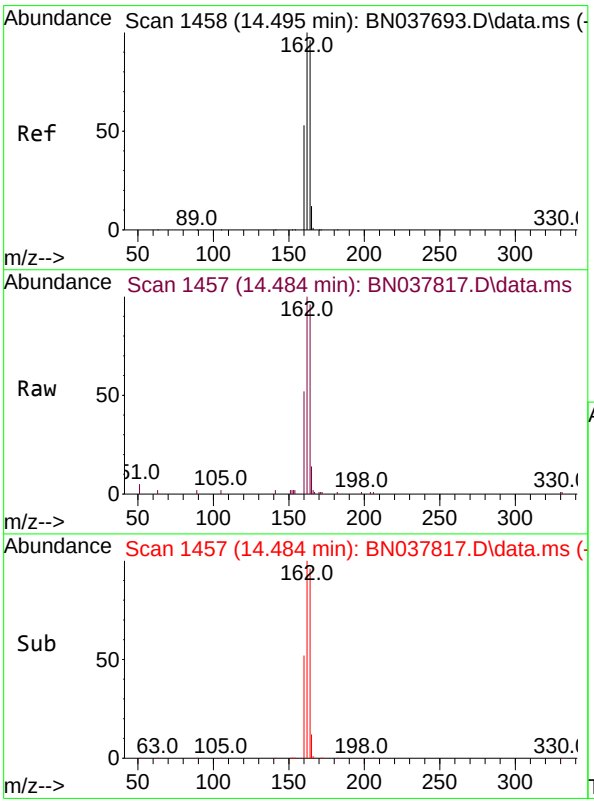
#11
2-Methylnaphthalene-d10
Concen: 0.140 ng
RT: 12.228 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

Tgt Ion:152 Resp: 2732

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.0	25.6

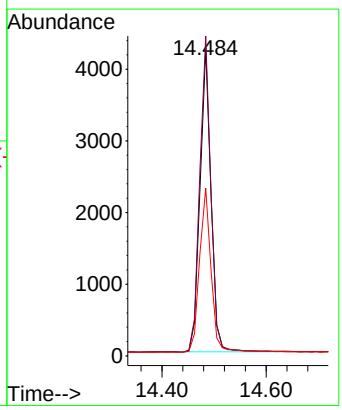


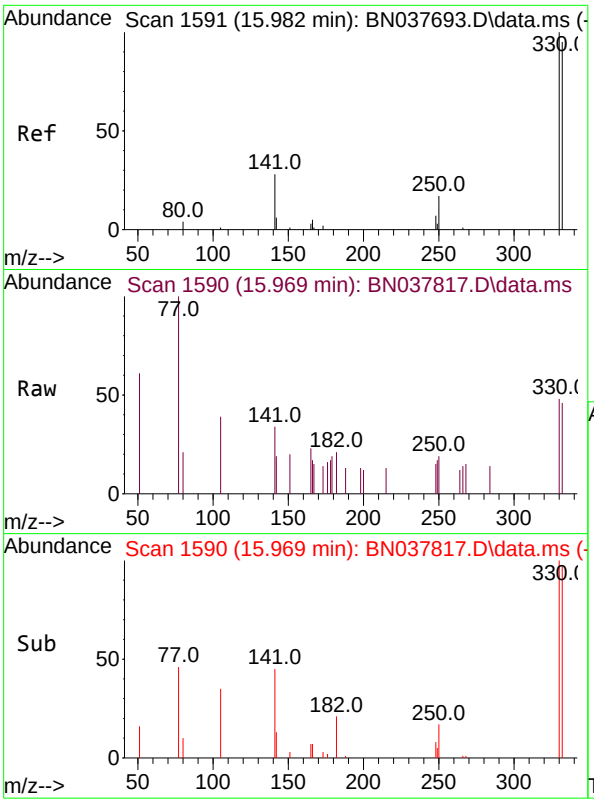


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Tgt Ion:164 Resp: 6209

Ion	Ratio	Lower	Upper
164	100		
162	104.0	83.1	124.7
160	54.5	44.3	66.5



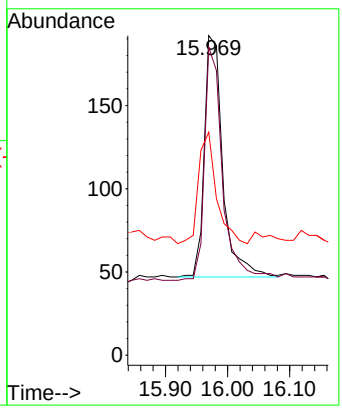


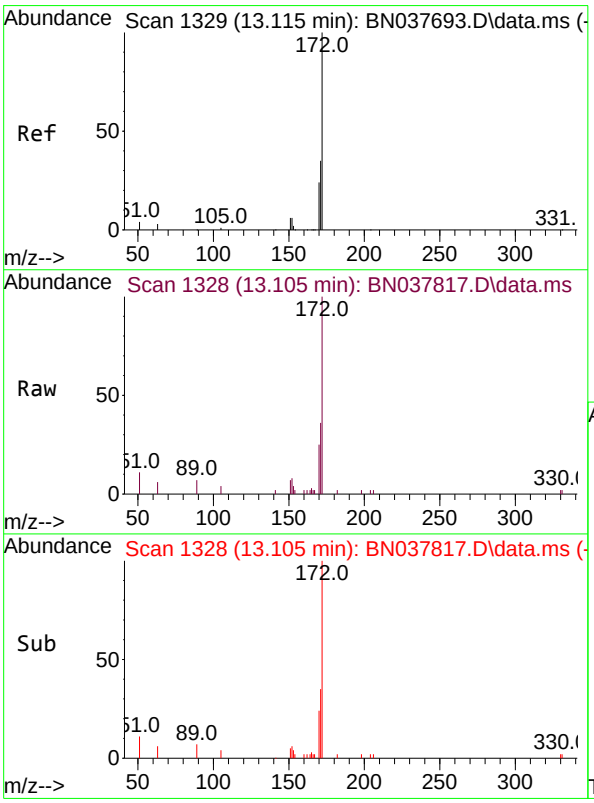
#14
2,4,6-Tribromophenol
Concen: 0.185 ng
RT: 15.969 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

Tgt Ion:330 Resp: 299

Ion	Ratio	Lower	Upper
330	100		
332	96.7	75.3	112.9
141	44.5	35.0	52.4

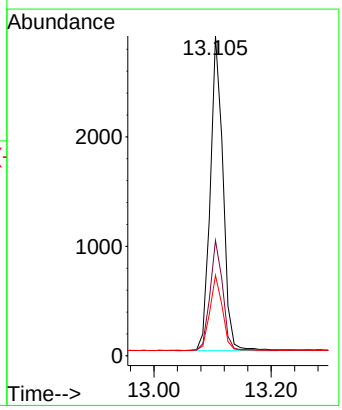


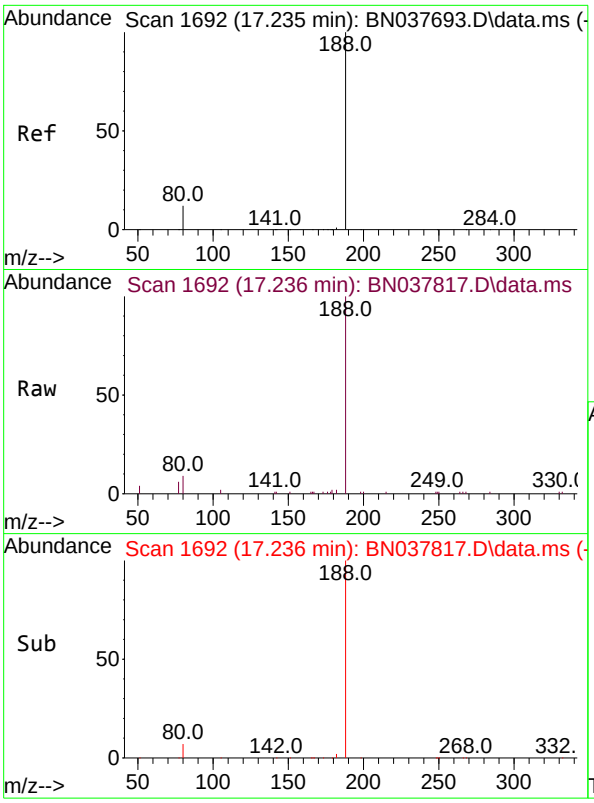


#15
2-Fluorobiphenyl
Concen: 0.167 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Tgt Ion:172 Resp: 4337

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.6	43.0
170	25.2	19.8	29.8



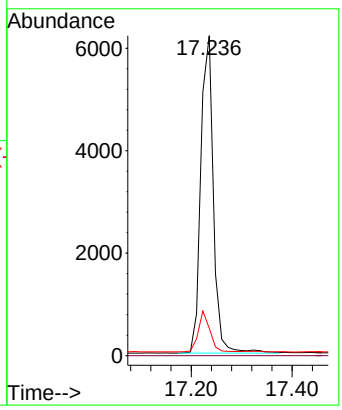


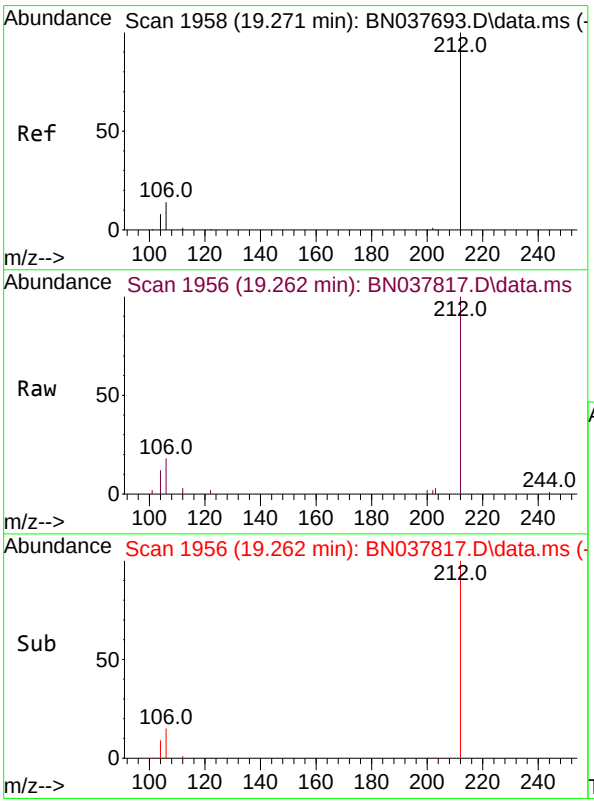
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

Tgt Ion:188 Resp: 10700

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	10.6	15.8#

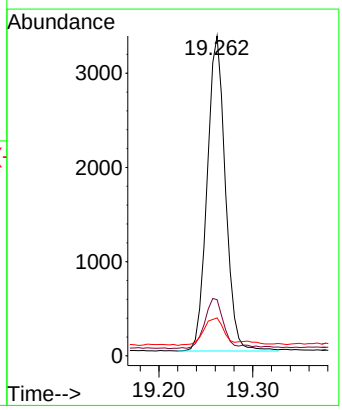


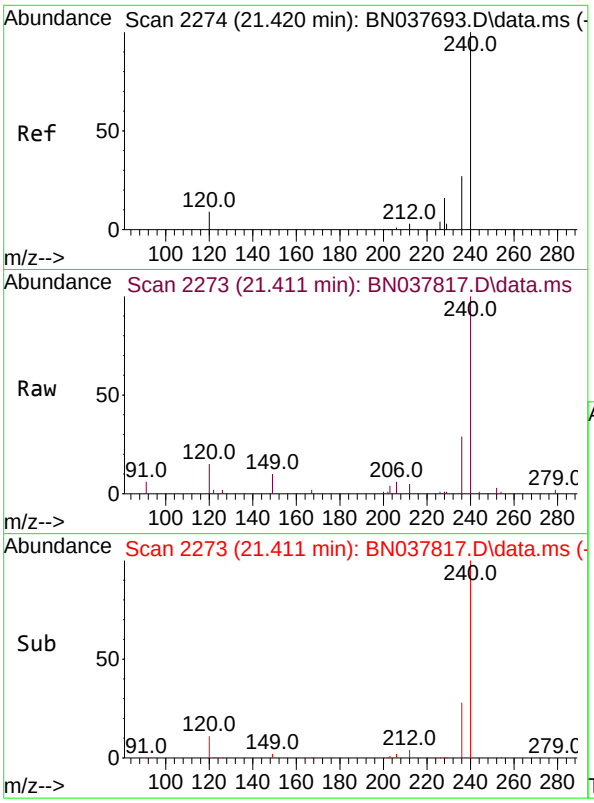


#27
Fluoranthene-d10
Concen: 0.168 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Tgt Ion:212 Resp: 4509

Ion	Ratio	Lower	Upper
212	100		
106	16.3	12.2	18.2
104	9.7	6.9	10.3



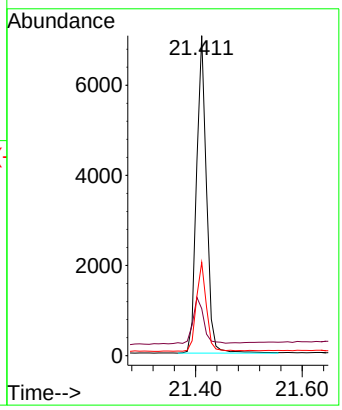


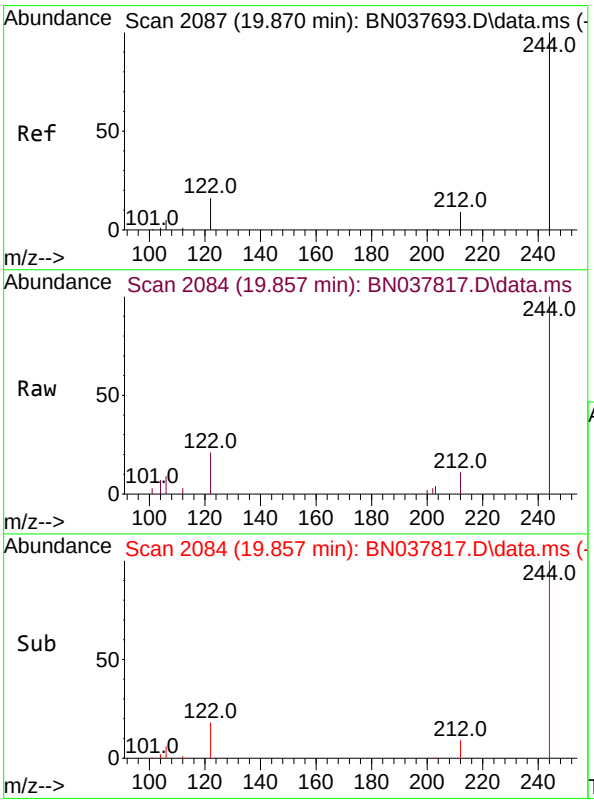
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

Tgt Ion:240 Resp: 9109

Ion	Ratio	Lower	Upper
240	100		
120	14.7	9.2	13.8#
236	29.1	22.6	33.8

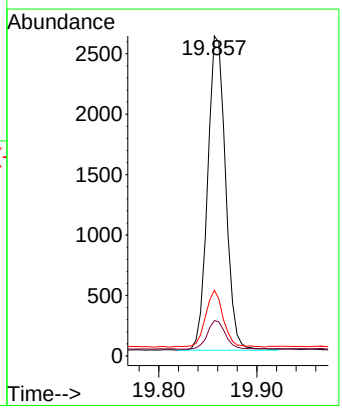


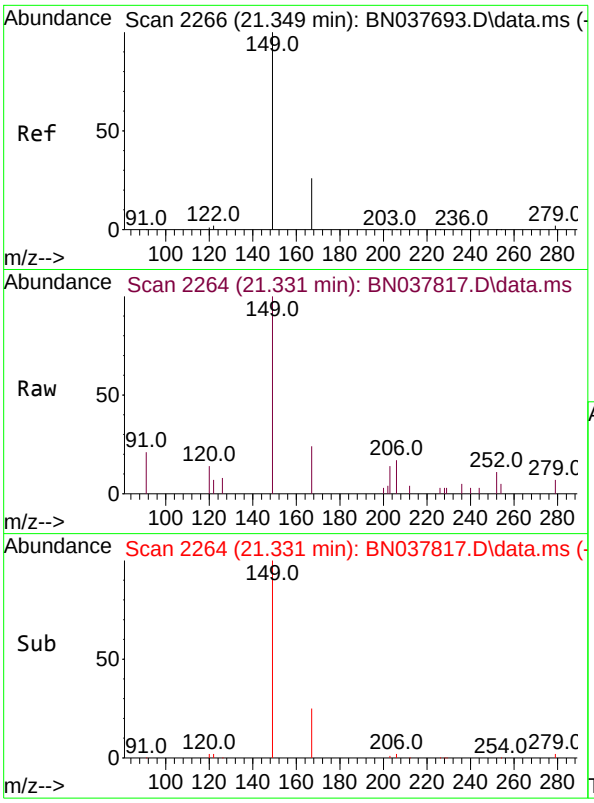


#31
Terphenyl-d14
Concen: 0.178 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Tgt Ion:244 Resp: 3298

Ion	Ratio	Lower	Upper
244	100		
212	11.0	7.5	11.3
122	20.5	13.2	19.8#



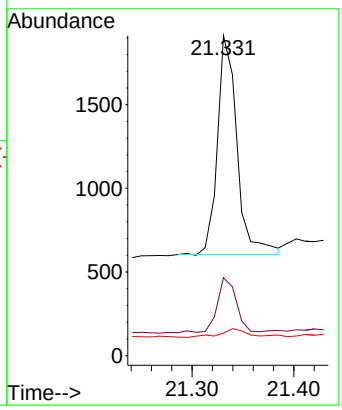


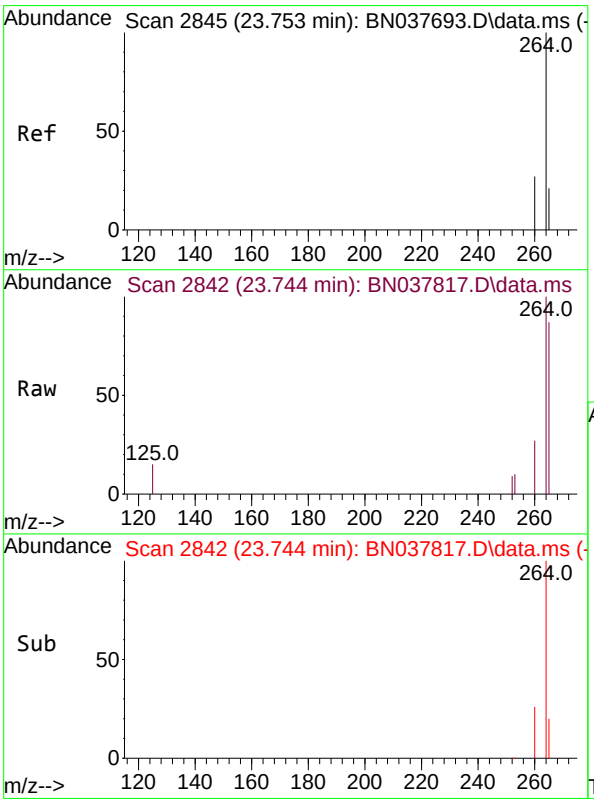
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.187 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

Tgt Ion:149 Resp: 1758

Ion	Ratio	Lower	Upper
149	100		
167	24.3	20.8	31.2
279	6.2	3.3	4.9#

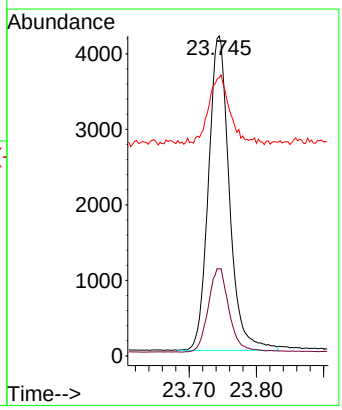




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Tgt Ion:264 Resp: 8982

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.8	32.8
265	86.9	39.4	59.2#



Raw Data: **BN037805.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE105D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-14	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037805.D	1	09/16/25 09:39	09/19/25 08:49	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		67%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6730	7.833				
1146-65-2	Naphthalene-d8	16400	10.637				
15067-26-2	Acenaphthene-d10	7360	14.484				
1517-22-2	Phenanthrene-d10	13800	17.235				
1719-03-5	Chrysene-d12	12000	21.411				
1520-96-3	Perylene-d12	11300	23.739				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037805.D
Acq On : 19 Sep 2025 08:49
Operator : RC/JU
Sample : Q3097-14
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

Quant Time: Sep 19 11:08:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

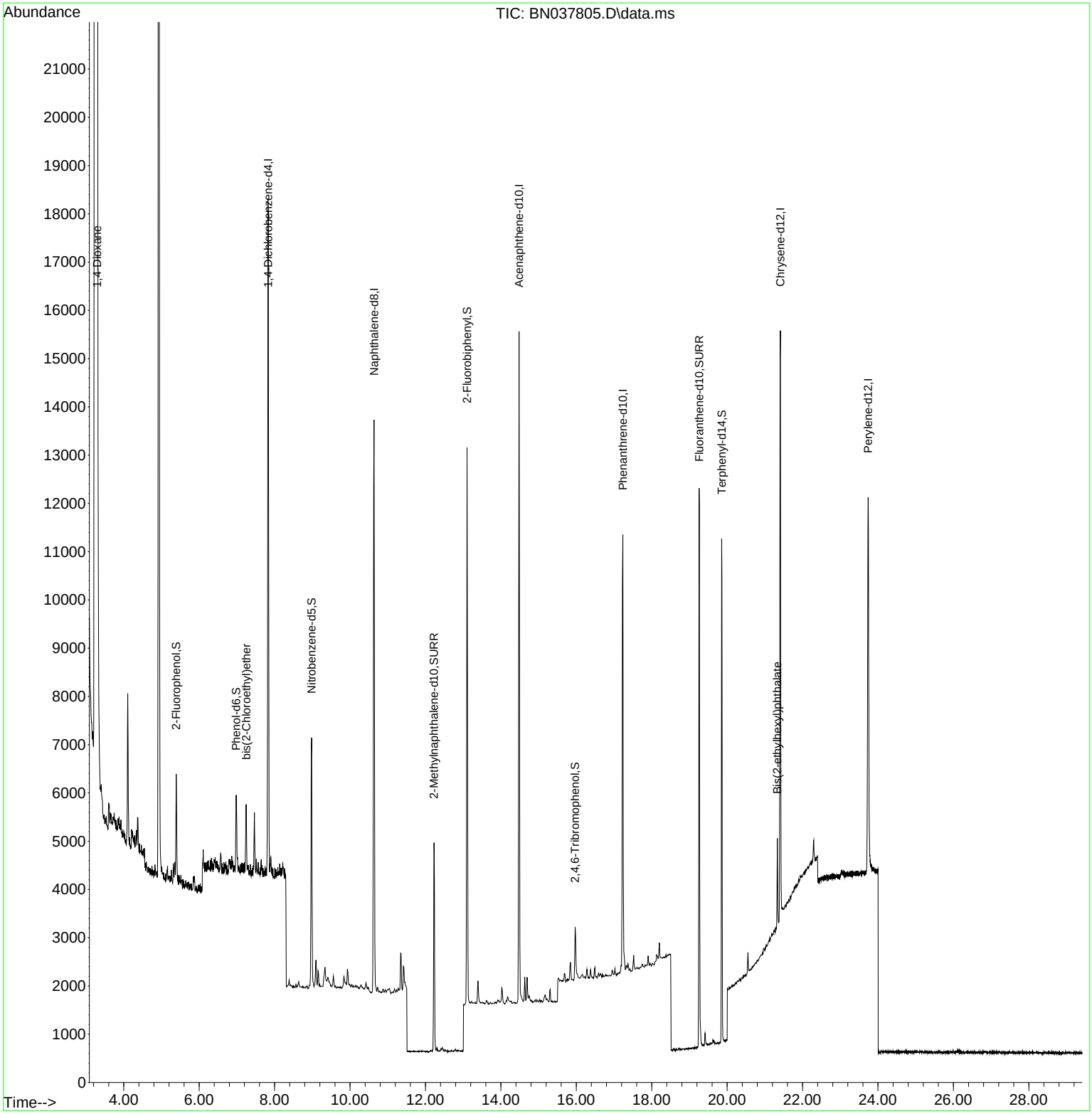
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6733	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	16370	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7362	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	13809	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11974	0.400	ng	0.00
35) Perylene-d12	23.739	264	11341	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1751	0.113	ng	0.00
5) Phenol-d6	6.981	99	1476	0.074	ng	0.00
8) Nitrobenzene-d5	8.982	82	4216	0.352	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	5815	0.268	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	737	0.384	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	9254	0.301	ng	-0.01
27) Fluoranthene-d10	19.262	212	12855	0.371	ng	0.00
31) Terphenyl-d14	19.857	244	9718	0.400	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	21754	3.102	ng	95
6) bis(2-Chloroethyl)ether	7.248	93	1000	0.056	ng	93
34) Bis(2-ethylhexyl)phtha...	21.331	149	1657	0.134	ng	99

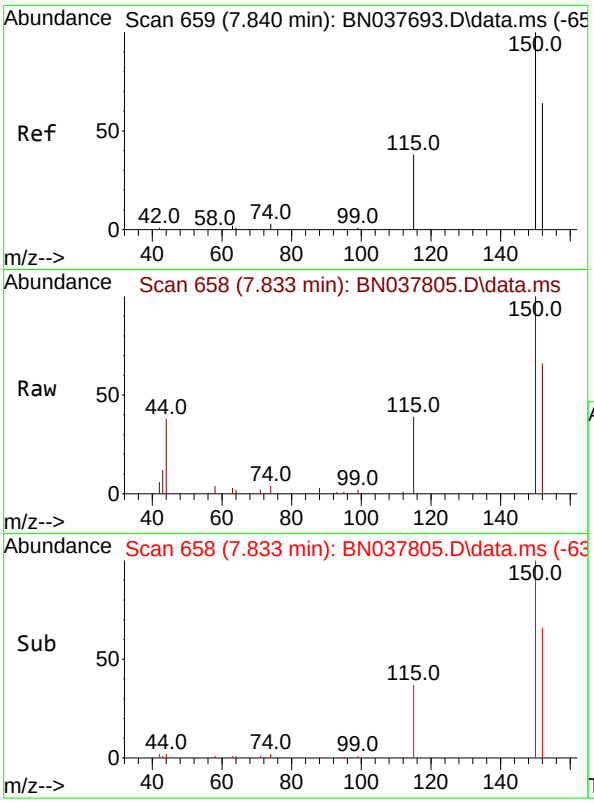
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037805.D
Acq On : 19 Sep 2025 08:49
Operator : RC/JU
Sample : Q3097-14
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

Quant Time: Sep 19 11:08:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



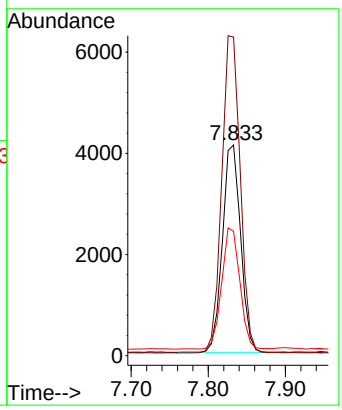


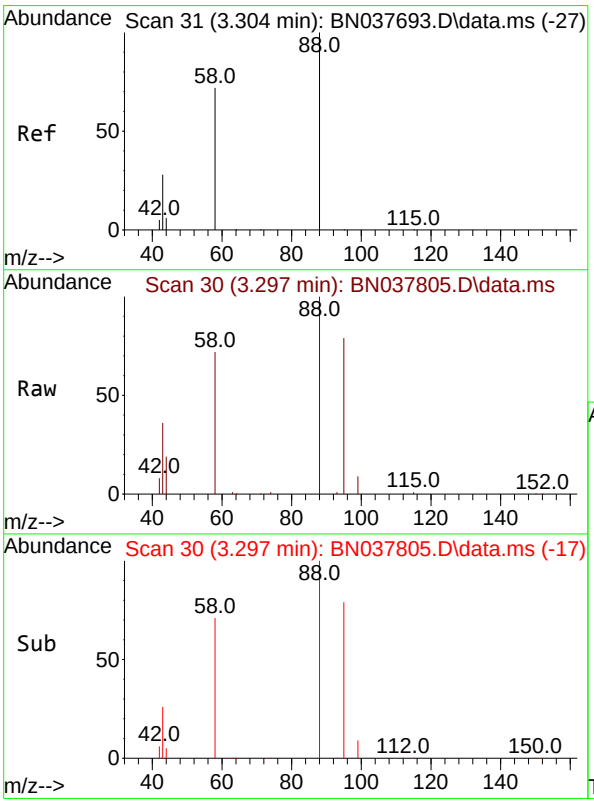
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

Tgt Ion:152 Resp: 6733

Ion	Ratio	Lower	Upper
152	100		
150	151.2	124.5	186.7
115	59.0	49.2	73.8

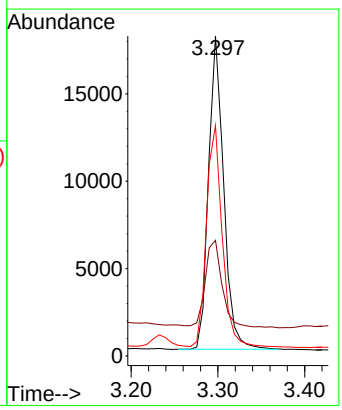


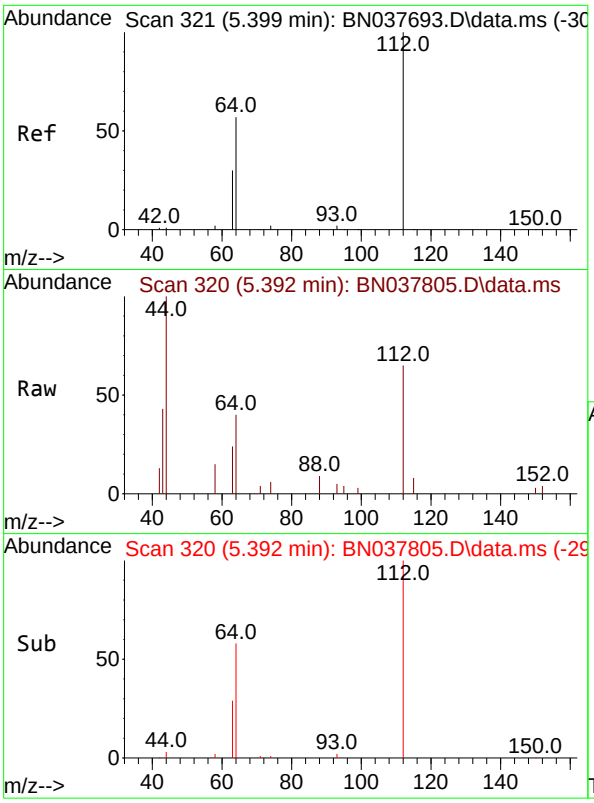


#2
1,4-Dioxane
Concen: 3.102 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Tgt Ion: 88 Resp: 21754

Ion	Ratio	Lower	Upper
88	100		
43	31.4	26.8	40.2
58	73.0	61.9	92.9



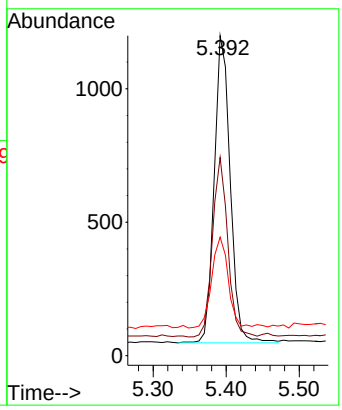


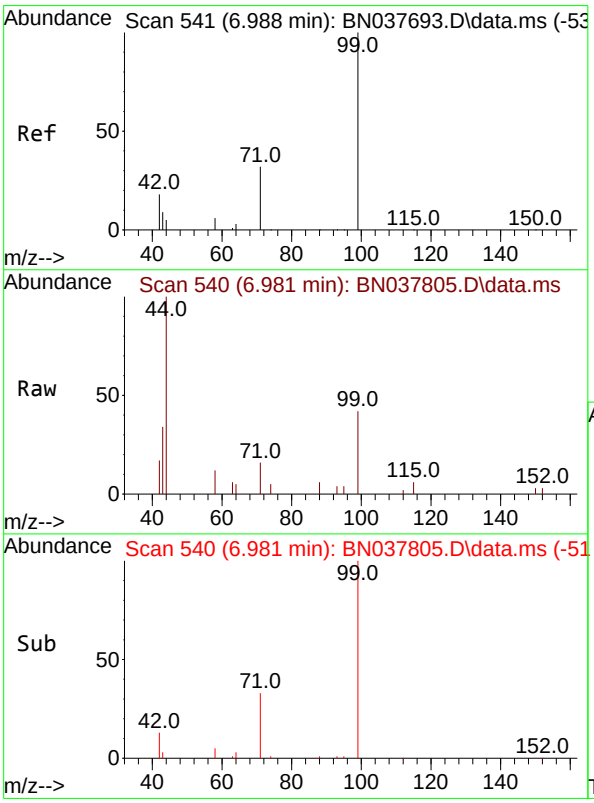
#4
2-Fluorophenol
Concen: 0.113 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

Tgt Ion:112 Resp: 1751

Ion	Ratio	Lower	Upper
112	100		
64	55.9	44.9	67.3
63	30.4	24.7	37.1

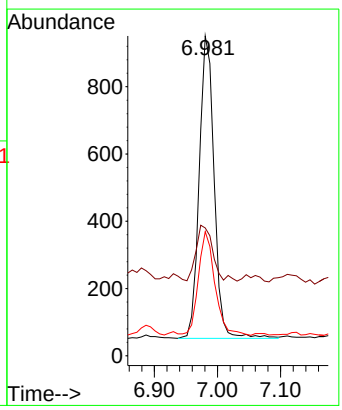


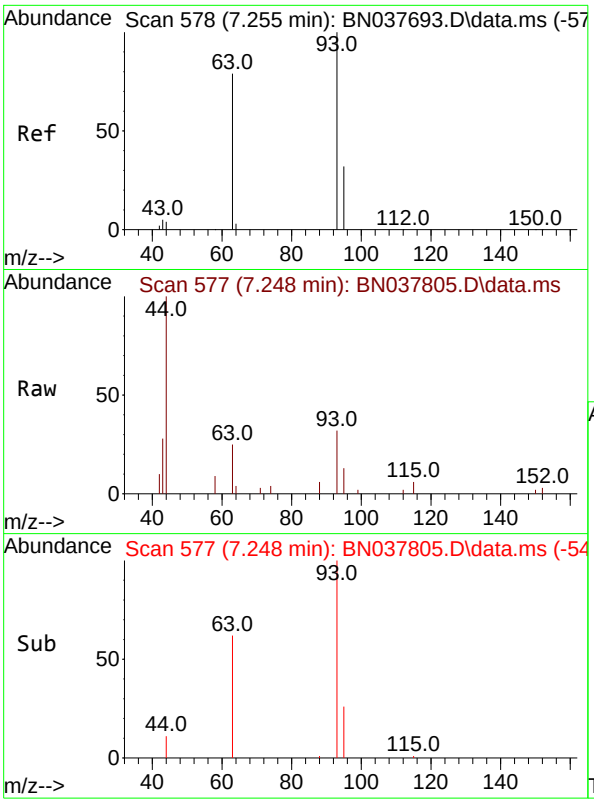


#5
Phenol-d6
Concen: 0.074 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Tgt Ion: 99 Resp: 1476

Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.6	24.8
71	37.9	26.7	40.1



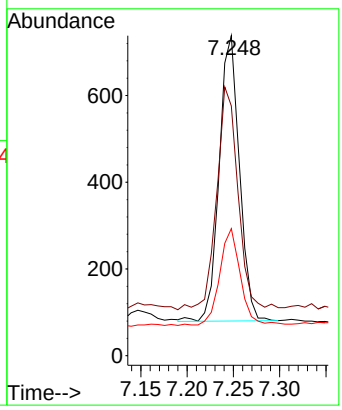


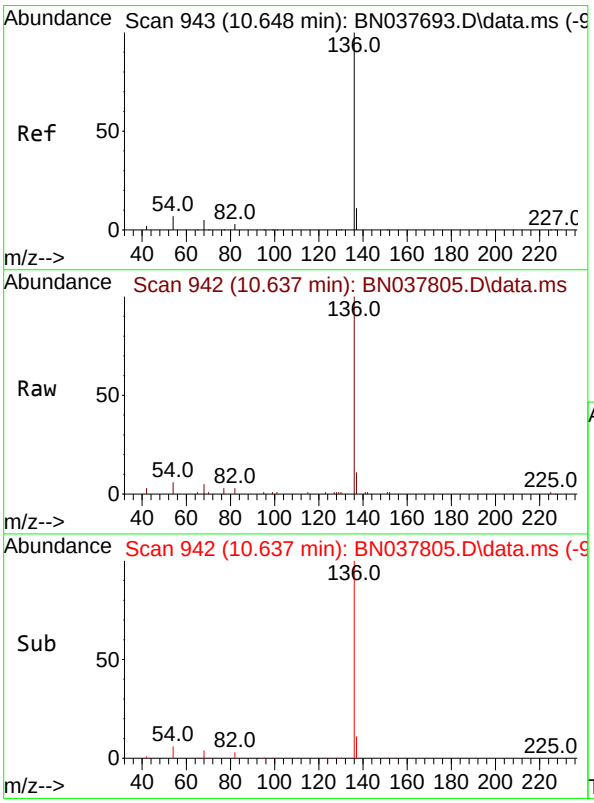
#6
bis(2-Chloroethyl)ether
Concen: 0.056 ng
RT: 7.248 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

Tgt Ion: 93 Resp: 1000

Ion	Ratio	Lower	Upper
93	100		
63	82.8	60.6	90.8
95	35.4	26.0	39.0

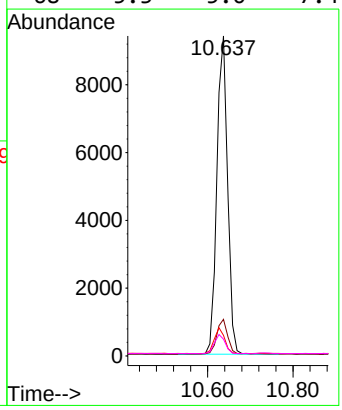


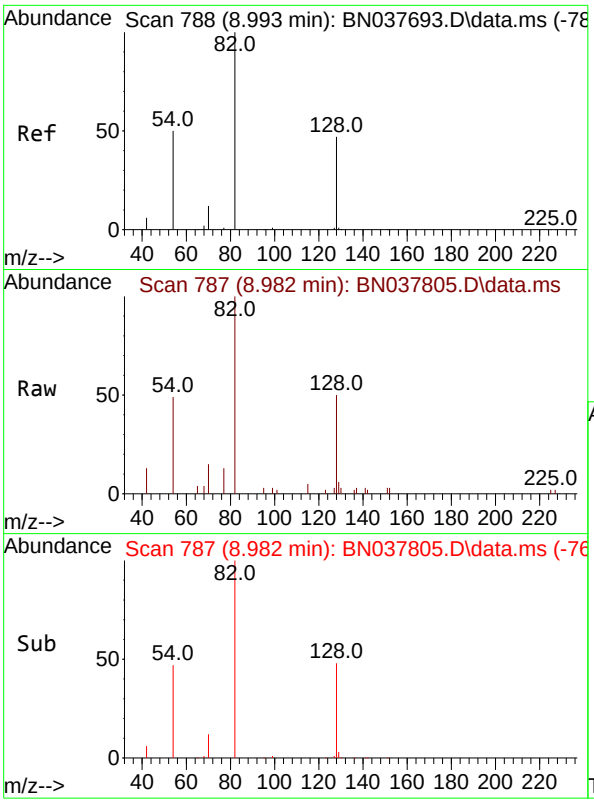


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Tgt Ion:136 Resp: 16370

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	6.4	6.3	9.5
68	5.3	5.0	7.4



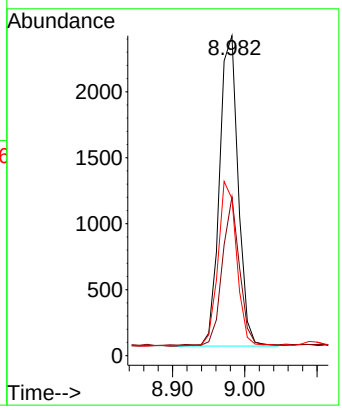


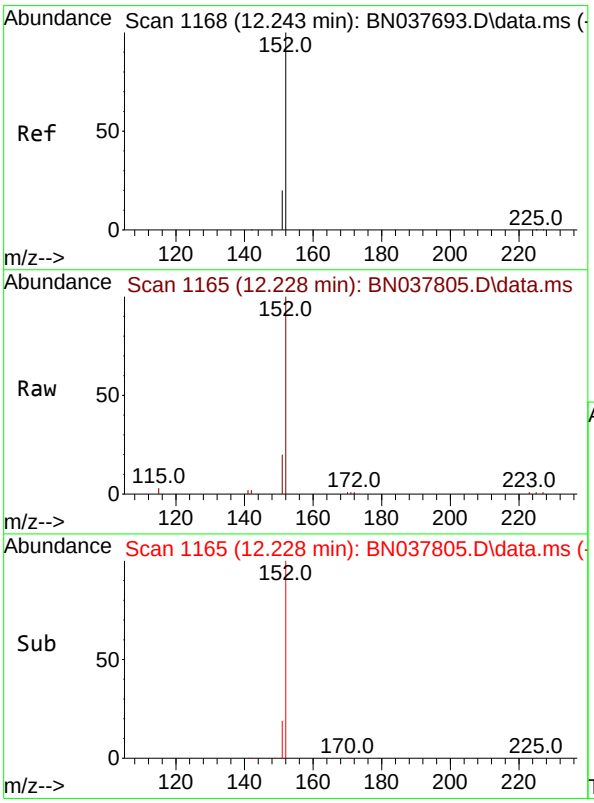
#8
Nitrobenzene-d5
Concen: 0.352 ng
RT: 8.982 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

Tgt Ion: 82 Resp: 4216

Ion	Ratio	Lower	Upper
82	100		
128	49.6	38.3	57.5
54	49.0	41.4	62.2

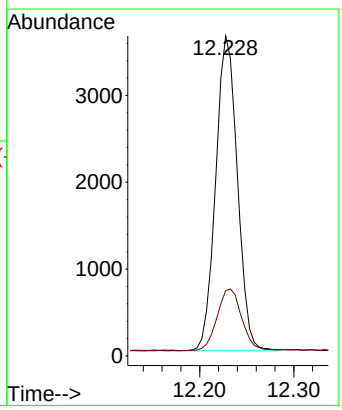


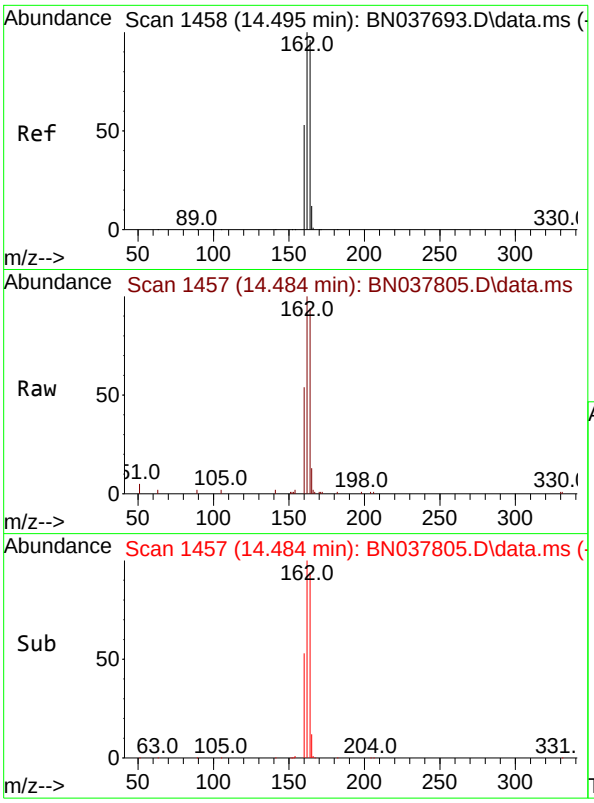


#11
2-Methylnaphthalene-d10
Concen: 0.268 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Tgt Ion:152 Resp: 5815

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.0	25.6



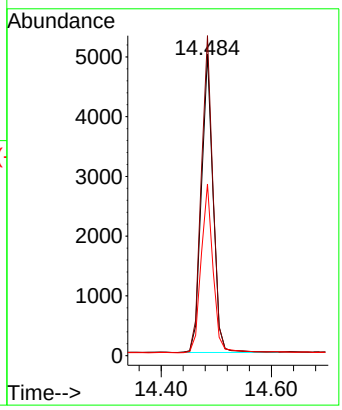


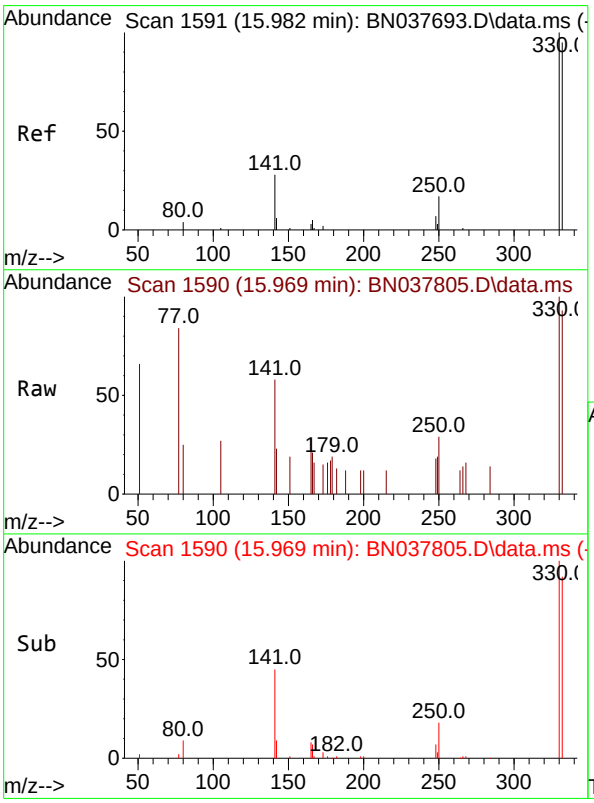
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

Tgt Ion:164 Resp: 7362

Ion	Ratio	Lower	Upper
164	100		
162	106.2	83.1	124.7
160	57.0	44.3	66.5

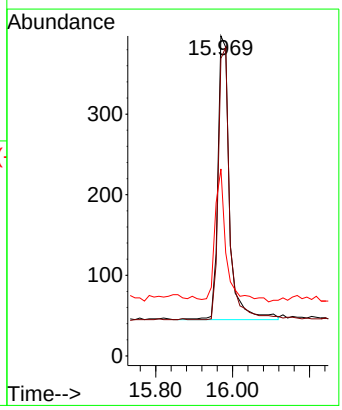


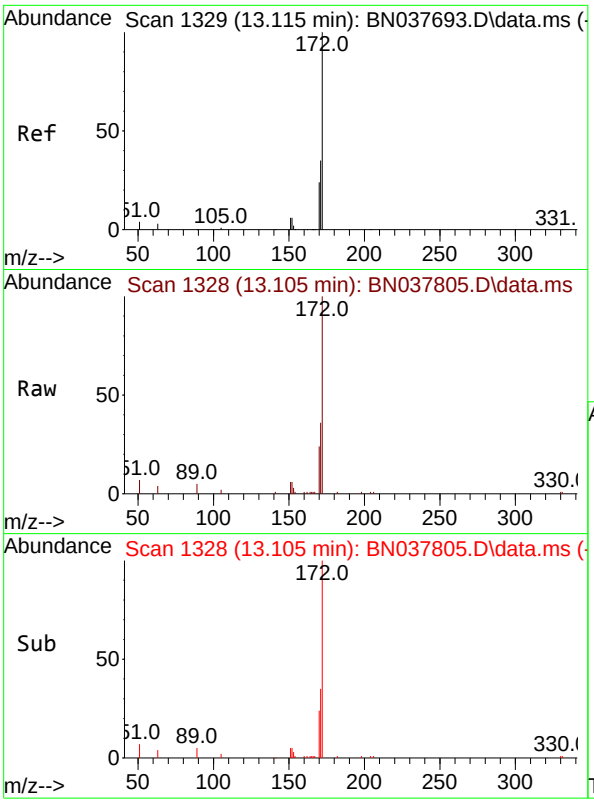


#14
2,4,6-Tribromophenol
Concen: 0.384 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Tgt Ion:330 Resp: 737

Ion	Ratio	Lower	Upper
330	100		
332	93.5	75.3	112.9
141	45.2	35.0	52.4



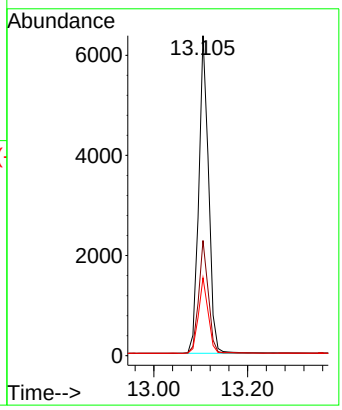


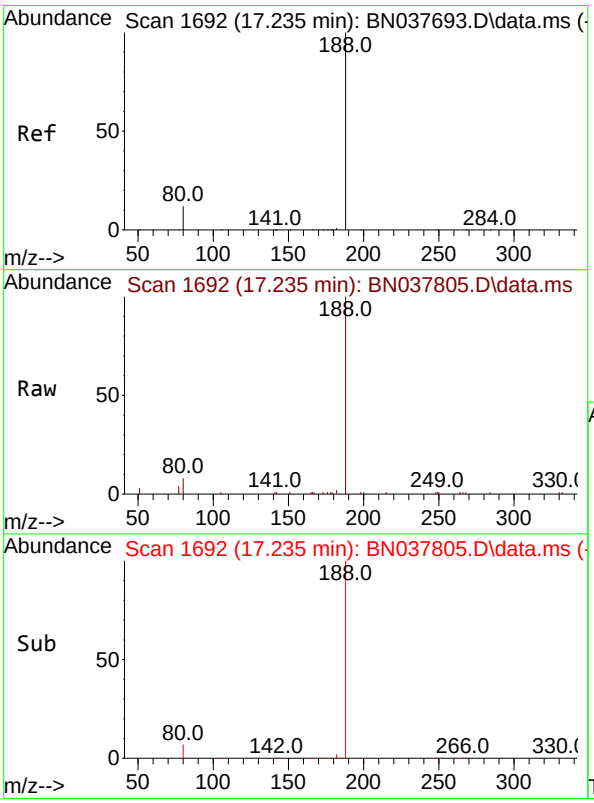
#15
2-Fluorobiphenyl
Concen: 0.301 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

Tgt Ion:172 Resp: 9254

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	24.4	19.8	29.8

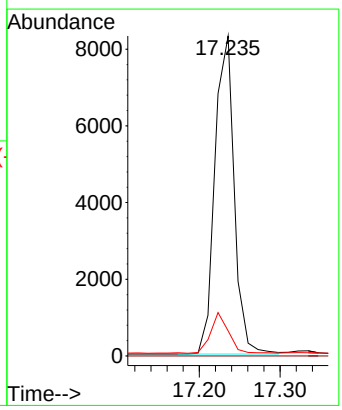


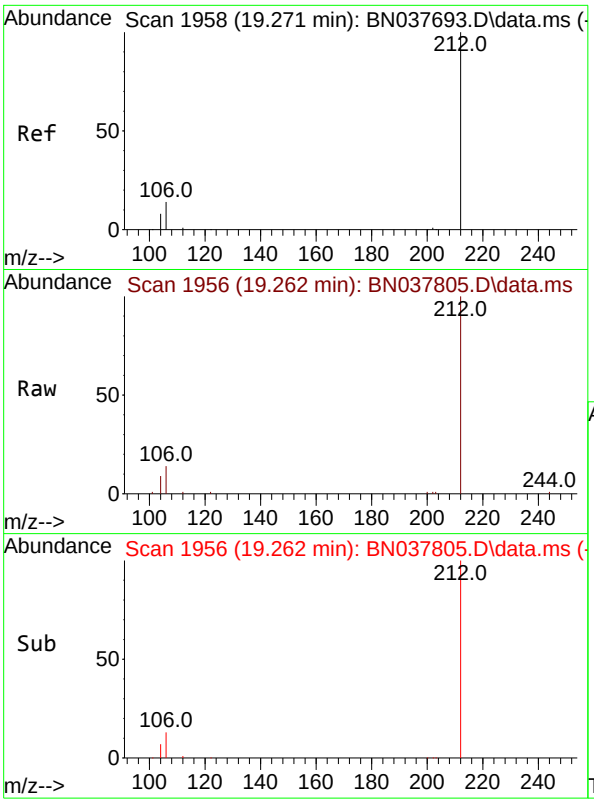


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Tgt Ion:188 Resp: 13809

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.8	10.6	15.8#



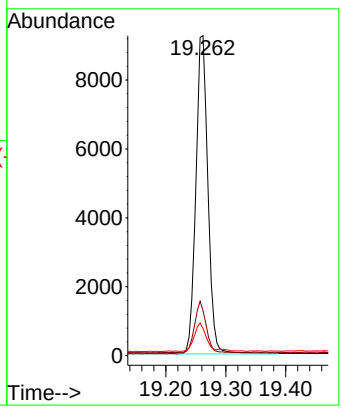


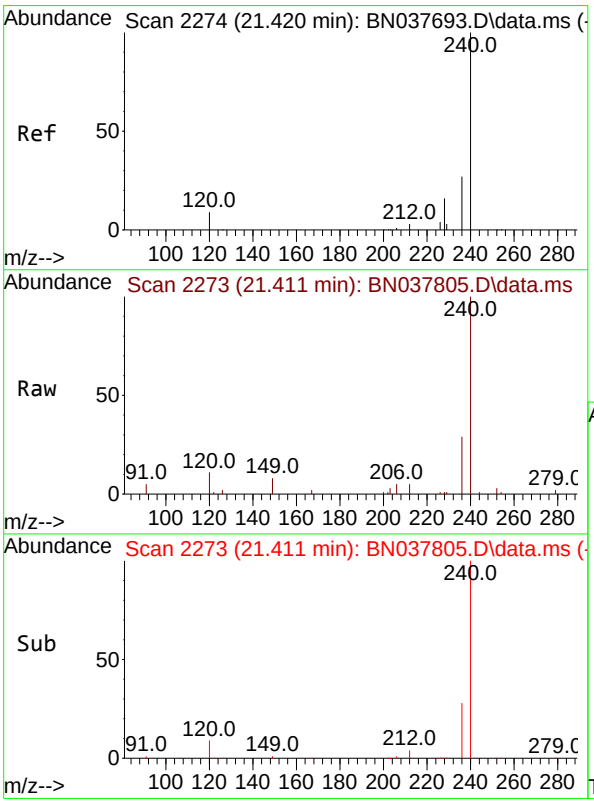
#27
Fluoranthene-d10
Concen: 0.371 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

Tgt Ion:212 Resp: 12855

Ion	Ratio	Lower	Upper
212	100		
106	15.2	12.2	18.2
104	8.6	6.9	10.3

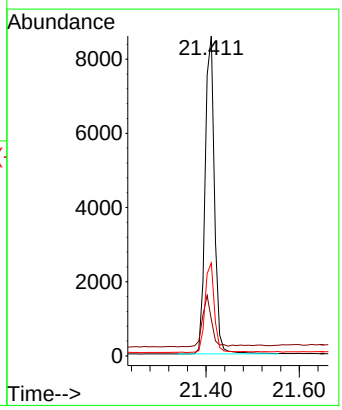


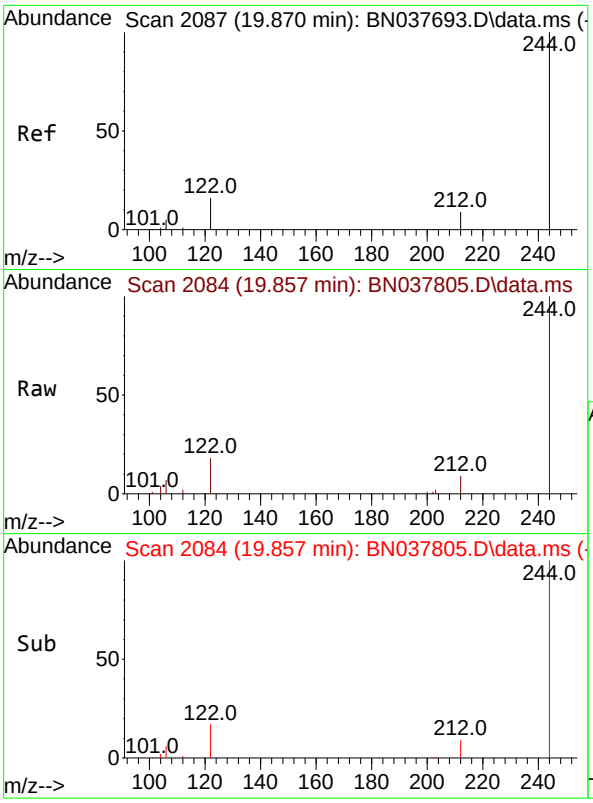


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Tgt Ion:240 Resp: 11974

Ion	Ratio	Lower	Upper
240	100		
120	11.4	9.2	13.8
236	29.0	22.6	33.8



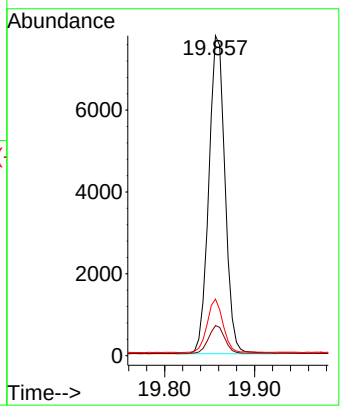


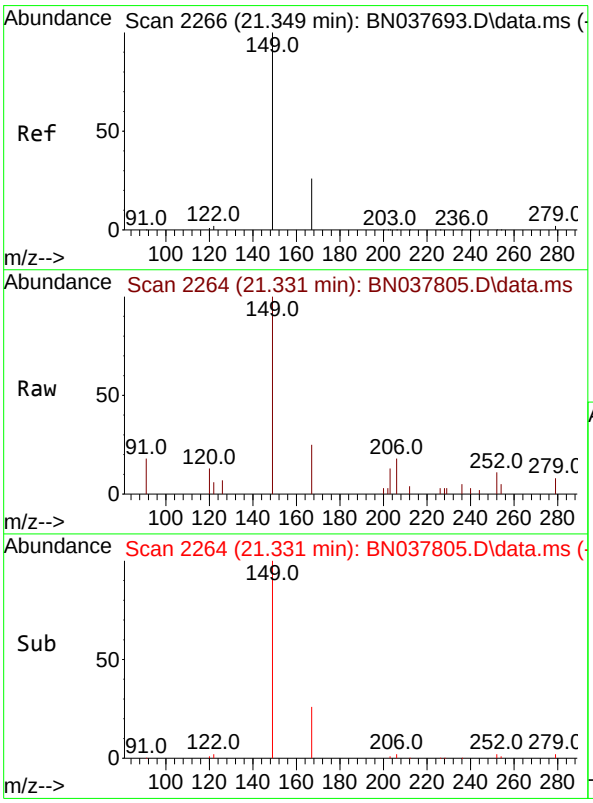
#31
Terphenyl-d14
Concen: 0.400 ng
RT: 19.857 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

Tgt Ion:244 Resp: 9718

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	17.7	13.2	19.8

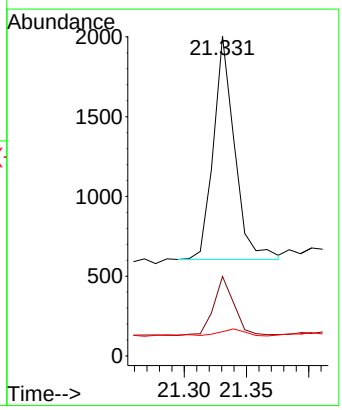


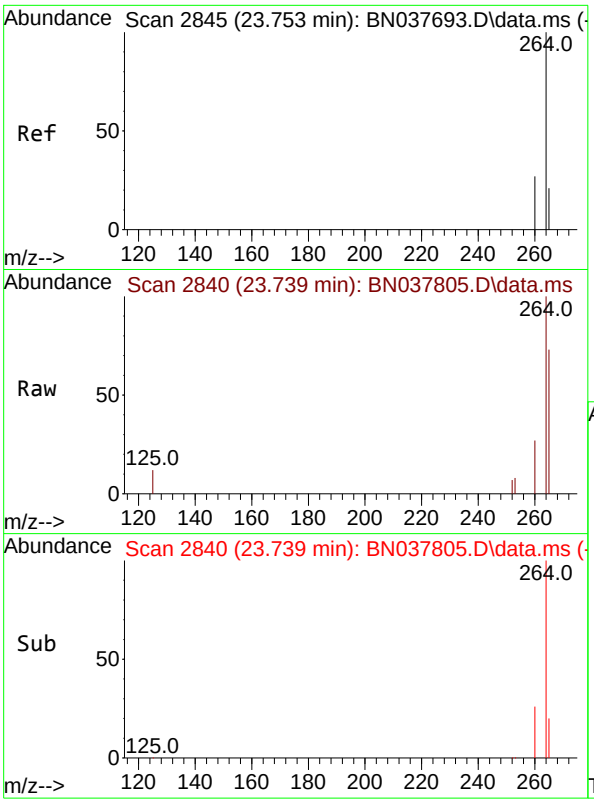


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.134 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Tgt Ion:149 Resp: 1657

Ion	Ratio	Lower	Upper
149	100		
167	25.5	20.8	31.2
279	3.6	3.3	4.9



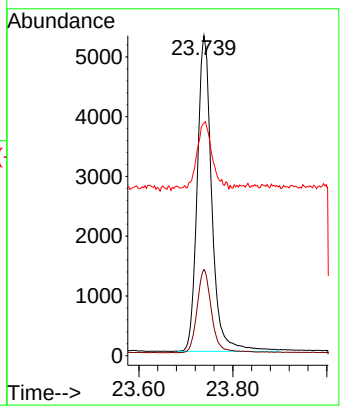


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

Tgt Ion:264 Resp: 11341

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.8	32.8
265	72.8	39.4	59.2#



Raw Data: **BN037806.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE117D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-15	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037806.D	1	09/16/25 09:39	09/19/25 09:25	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.35		58 - 132		86%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5760	7.832				
1146-65-2	Naphthalene-d8	15400	10.637				
15067-26-2	Acenaphthene-d10	7100	14.483				
1517-22-2	Phenanthrene-d10	13300	17.235				
1719-03-5	Chrysene-d12	12000	21.411				
1520-96-3	Perylene-d12	11200	23.741				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037806.D
Acq On : 19 Sep 2025 09:25
Operator : RC/JU
Sample : Q3097-15
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

Quant Time: Sep 19 11:09:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

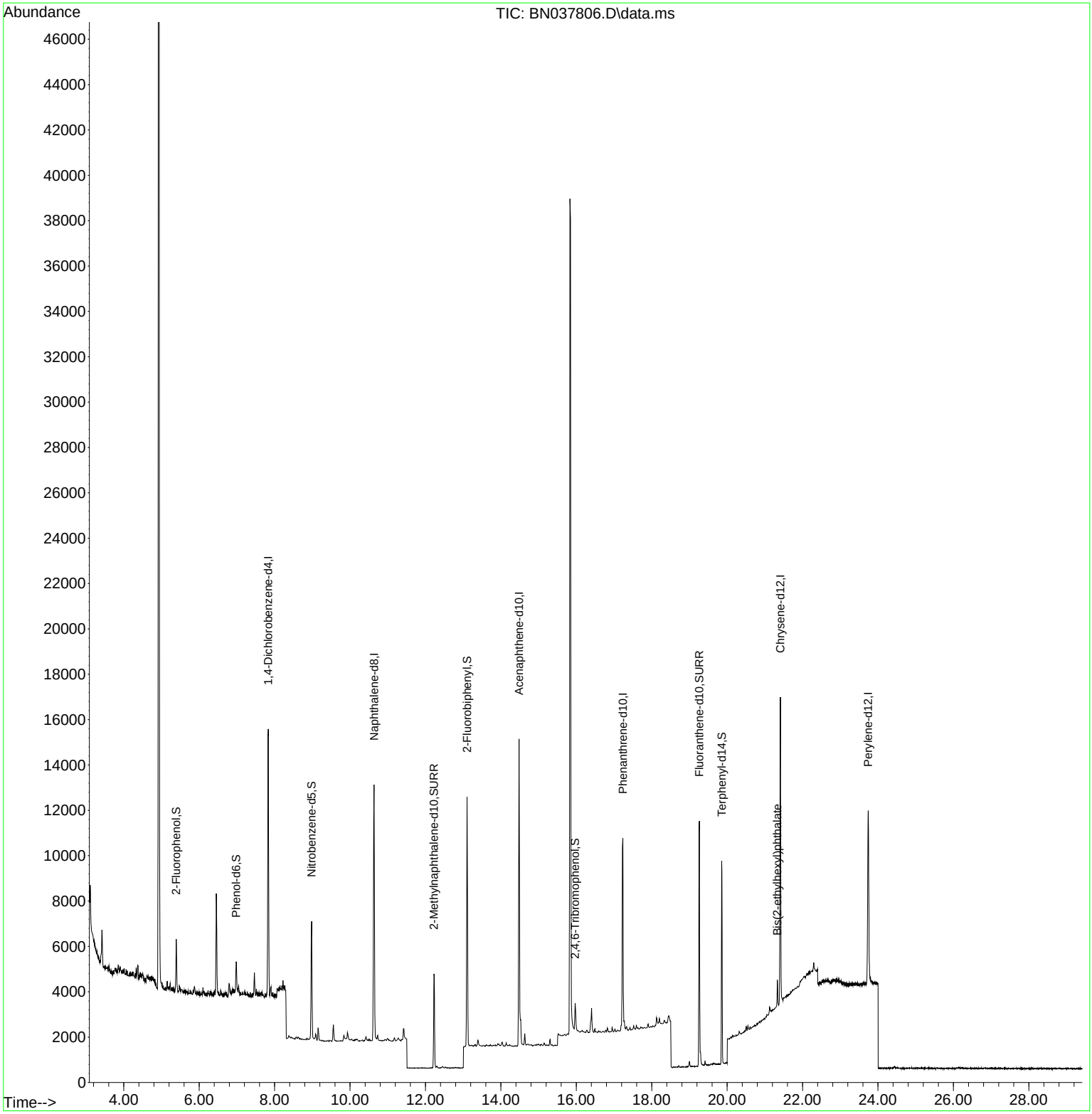
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	5758	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15439	0.400	ng	-0.01
13) Acenaphthene-d10	14.483	164	7097	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	13316	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11984	0.400	ng	0.00
35) Perylene-d12	23.741	264	11150	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	1792	0.136	ng	0.00
5) Phenol-d6	6.980	99	1316	0.077	ng	0.00
8) Nitrobenzene-d5	8.982	82	4139	0.367	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	5661	0.277	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	734	0.397	ng	-0.01
15) 2-Fluorobiphenyl	13.104	172	8973	0.302	ng	-0.01
27) Fluoranthene-d10	19.262	212	12036	0.360	ng	0.00
31) Terphenyl-d14	19.856	244	8422	0.346	ng	-0.01
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.330	149	1143	0.092	ng	# 96

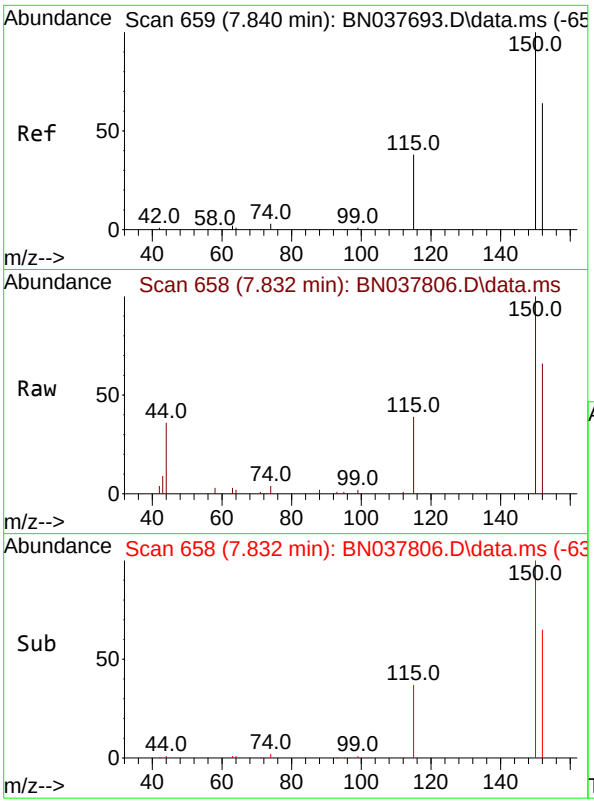
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037806.D
Acq On : 19 Sep 2025 09:25
Operator : RC/JU
Sample : Q3097-15
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

Quant Time: Sep 19 11:09:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



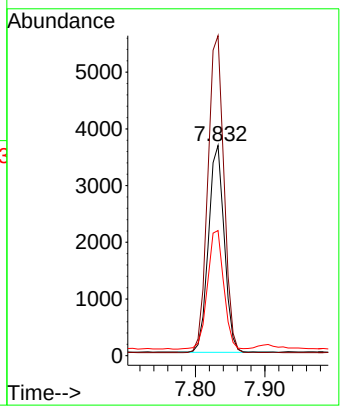


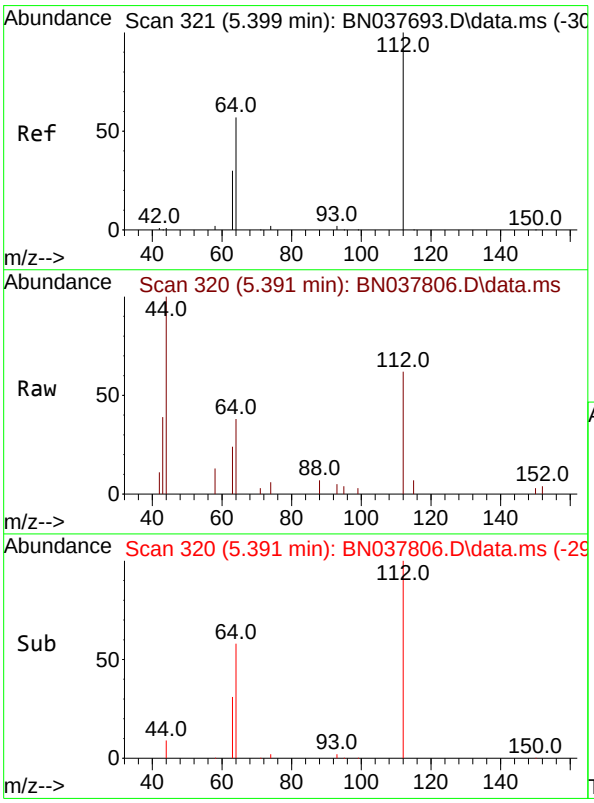
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

Tgt Ion:152 Resp: 5758

Ion	Ratio	Lower	Upper
152	100		
150	152.2	124.5	186.7
115	59.5	49.2	73.8

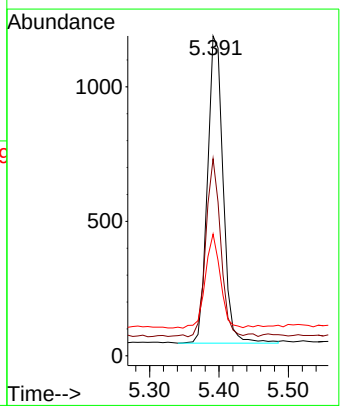


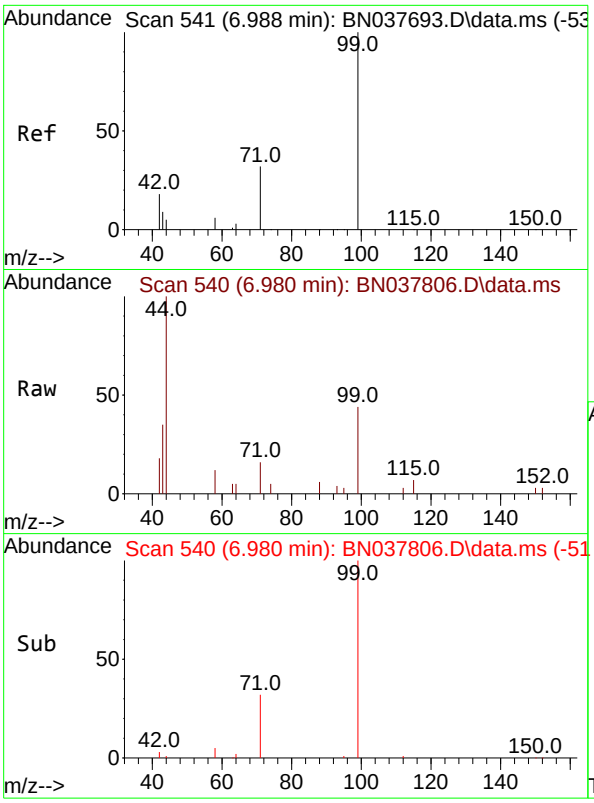


#4
2-Fluorophenol
Concen: 0.136 ng
RT: 5.391 min Scan# 320
Delta R.T. -0.008 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Tgt Ion:112 Resp: 1792

Ion	Ratio	Lower	Upper
112	100		
64	54.6	44.9	67.3
63	29.1	24.7	37.1



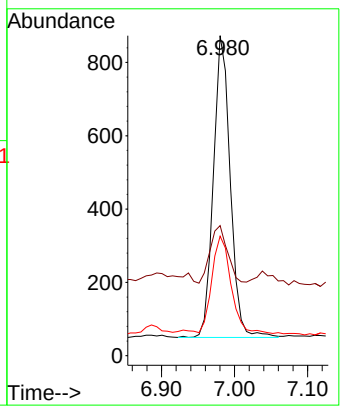


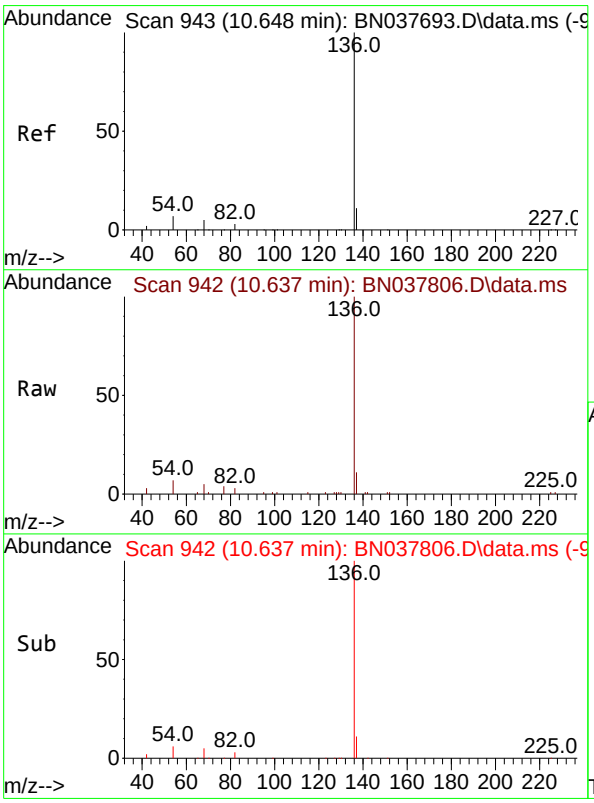
#5
Phenol-d6
Concen: 0.077 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.008 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

Tgt Ion: 99 Resp: 1316

Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.6	24.8
71	39.1	26.7	40.1

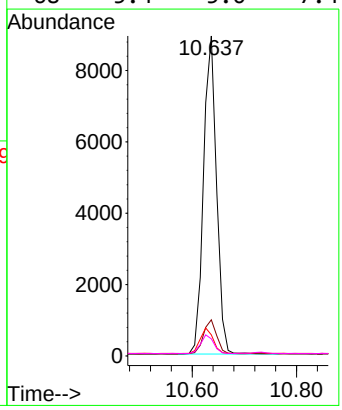


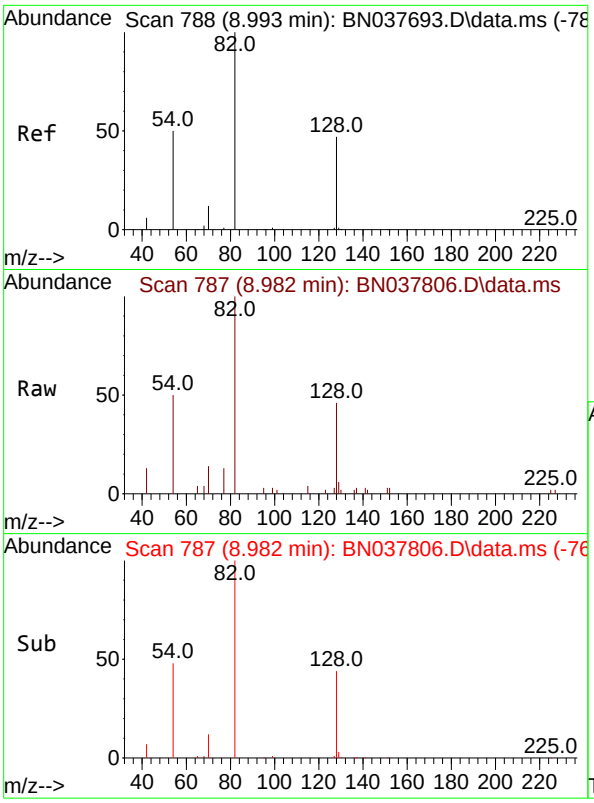


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Tgt Ion:136 Resp: 15439

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	6.6	6.3	9.5
68	5.4	5.0	7.4



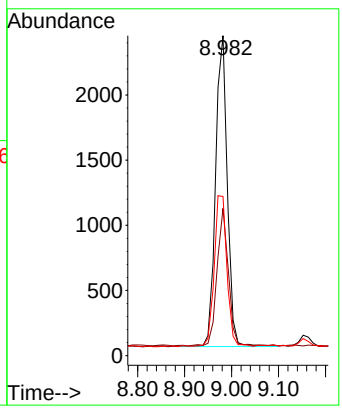


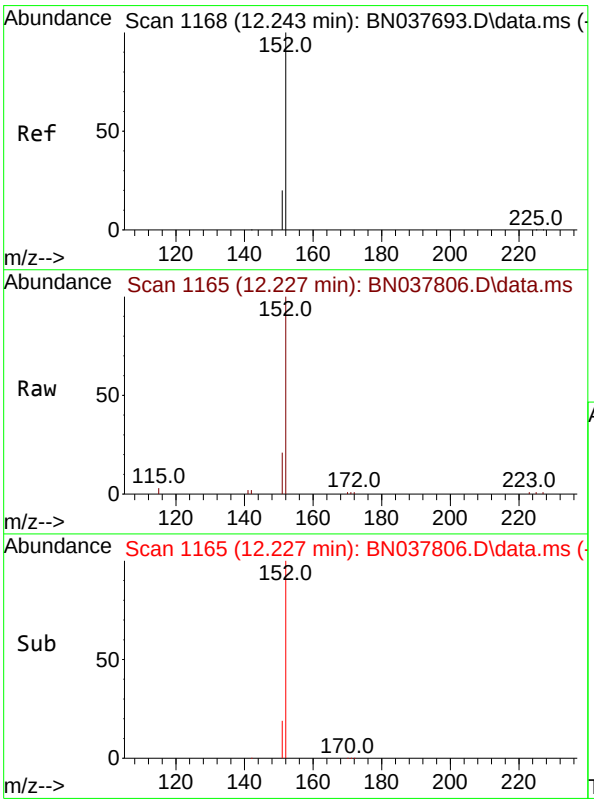
#8
Nitrobenzene-d5
Concen: 0.367 ng
RT: 8.982 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

Tgt Ion: 82 Resp: 4139

Ion	Ratio	Lower	Upper
82	100		
128	46.0	38.3	57.5
54	49.7	41.4	62.2

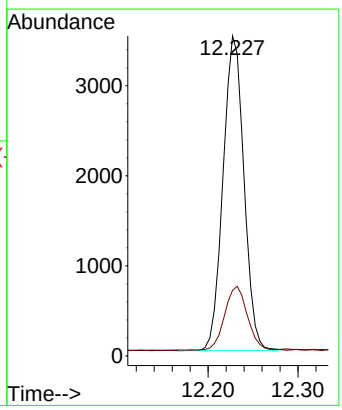


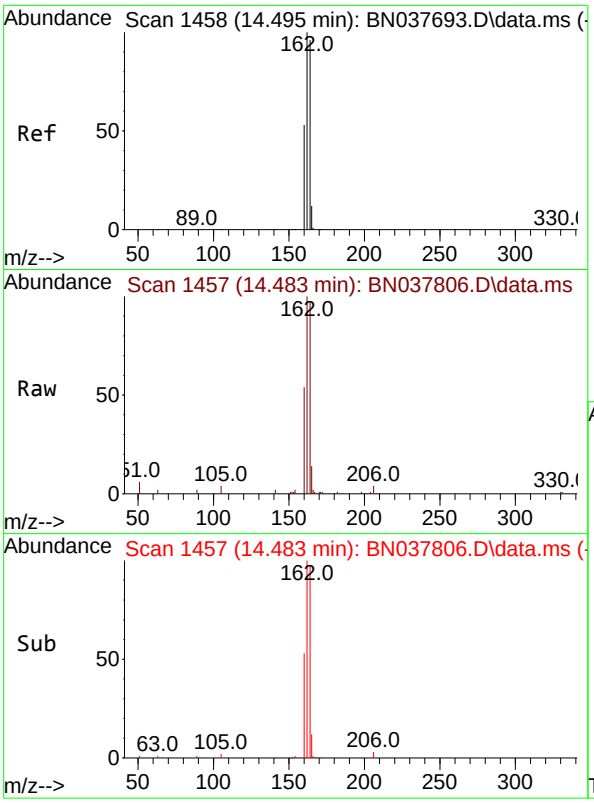


#11
2-Methylnaphthalene-d10
Concen: 0.277 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.016 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Tgt Ion:152 Resp: 5661

Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.0	25.6



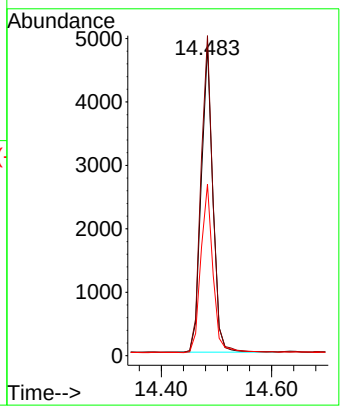


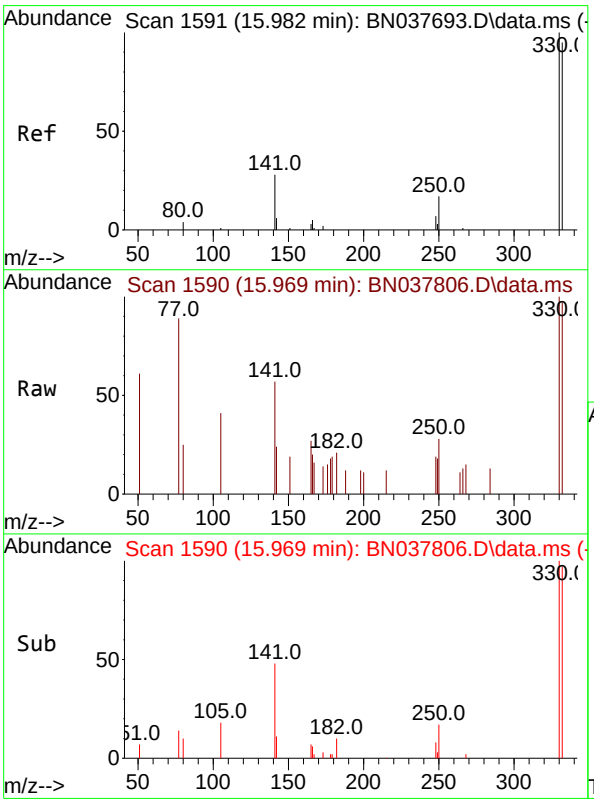
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.483 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

Tgt Ion:164 Resp: 7097

Ion	Ratio	Lower	Upper
164	100		
162	103.2	83.1	124.7
160	55.3	44.3	66.5

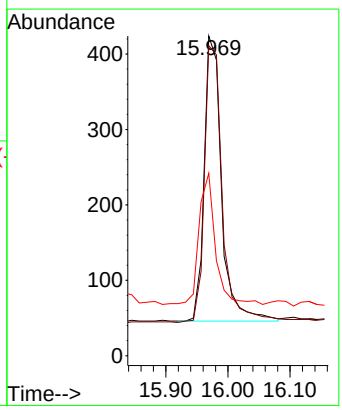


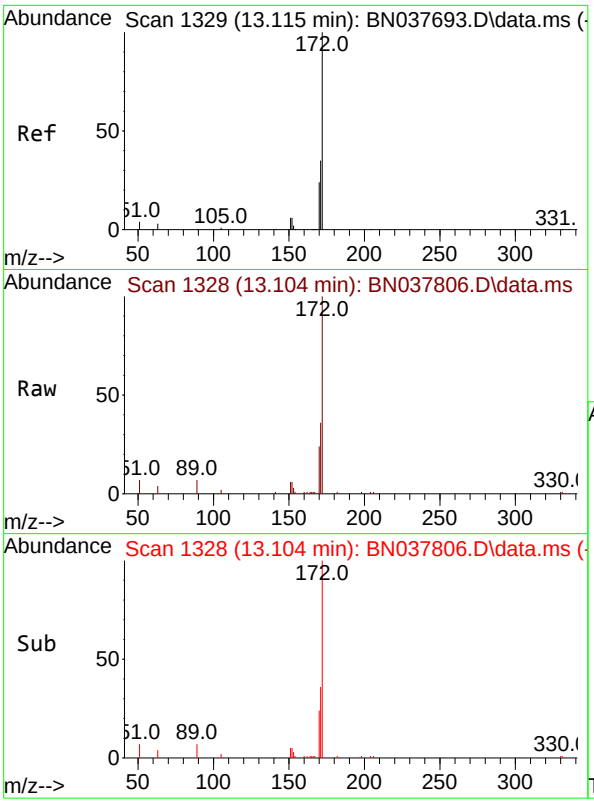


#14
2,4,6-Tribromophenol
Concen: 0.397 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Tgt Ion:330 Resp: 734

Ion	Ratio	Lower	Upper
330	100		
332	102.0	75.3	112.9
141	44.8	35.0	52.4



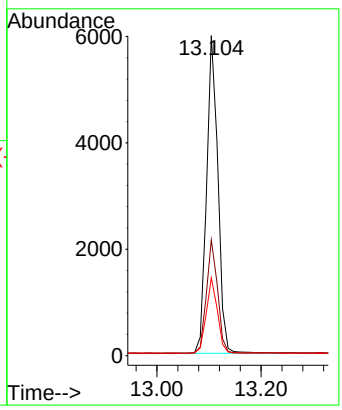


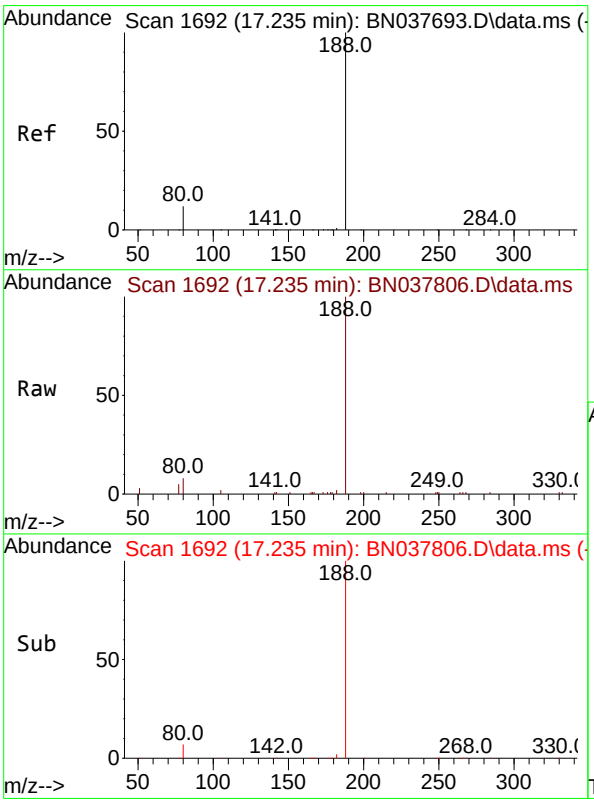
#15
2-Fluorobiphenyl
Concen: 0.302 ng
RT: 13.104 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

Tgt Ion:172 Resp: 8973

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	24.3	19.8	29.8

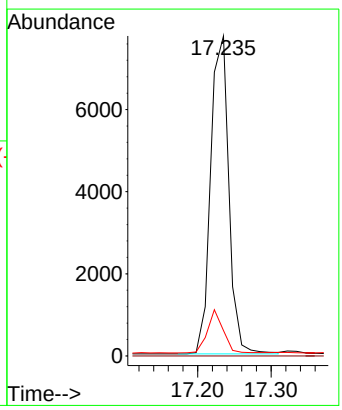


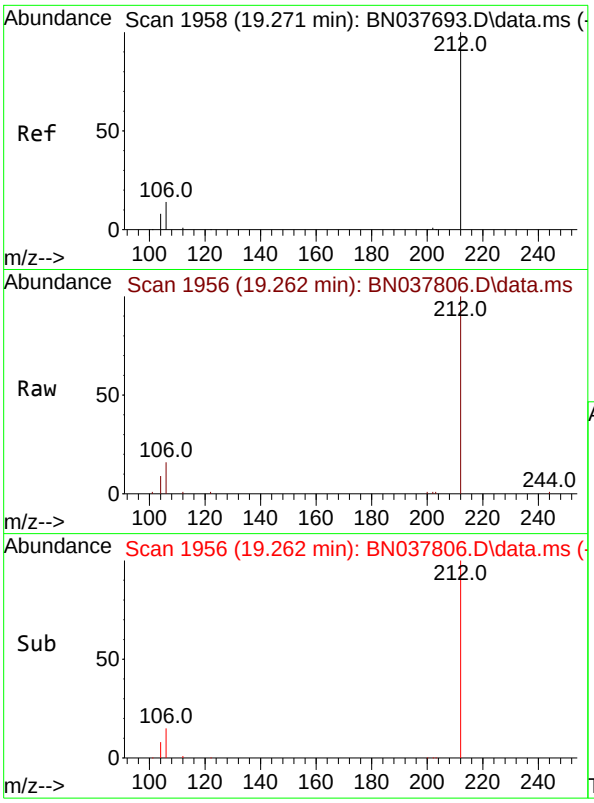


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Tgt Ion:188 Resp: 13316

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.0	10.6	15.8#



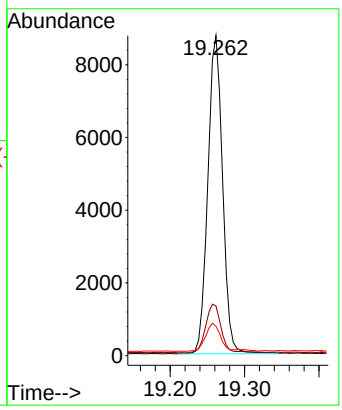


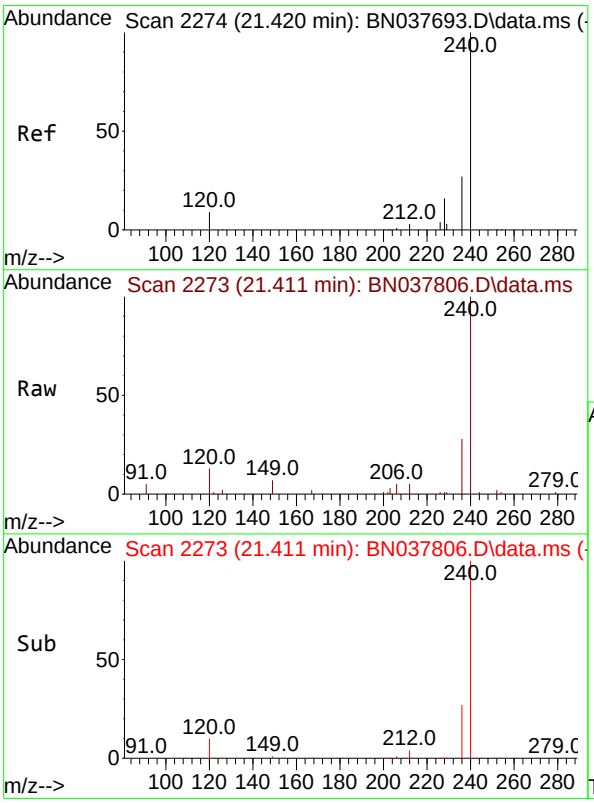
#27
Fluoranthene-d10
Concen: 0.360 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

Tgt Ion:212 Resp: 12036

Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.2	18.2
104	8.7	6.9	10.3

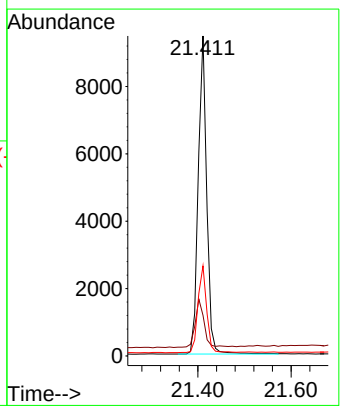


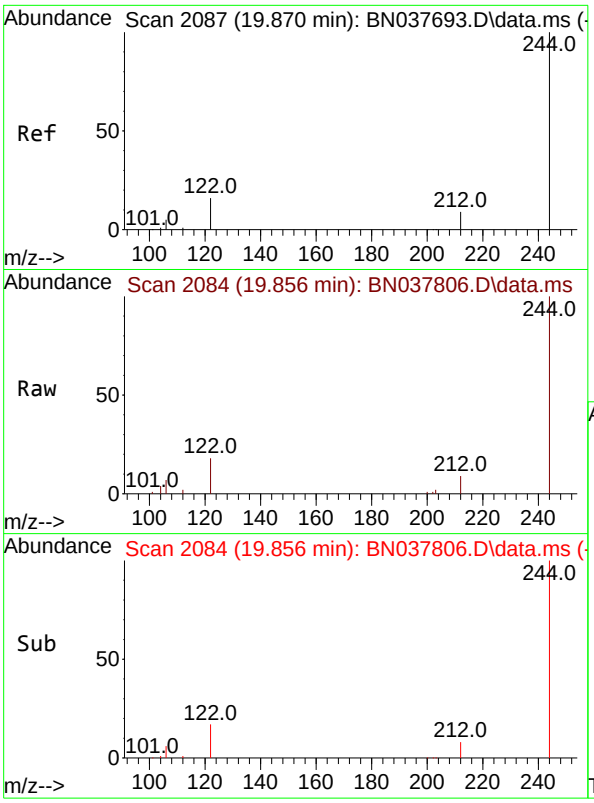


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Tgt Ion:240 Resp: 11984

Ion	Ratio	Lower	Upper
240	100		
120	12.7	9.2	13.8
236	28.2	22.6	33.8



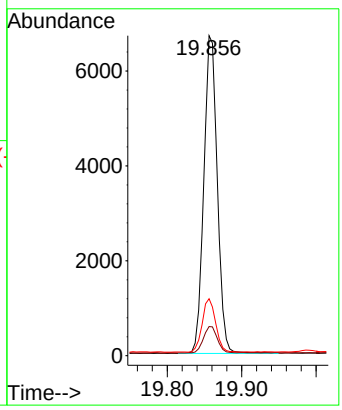


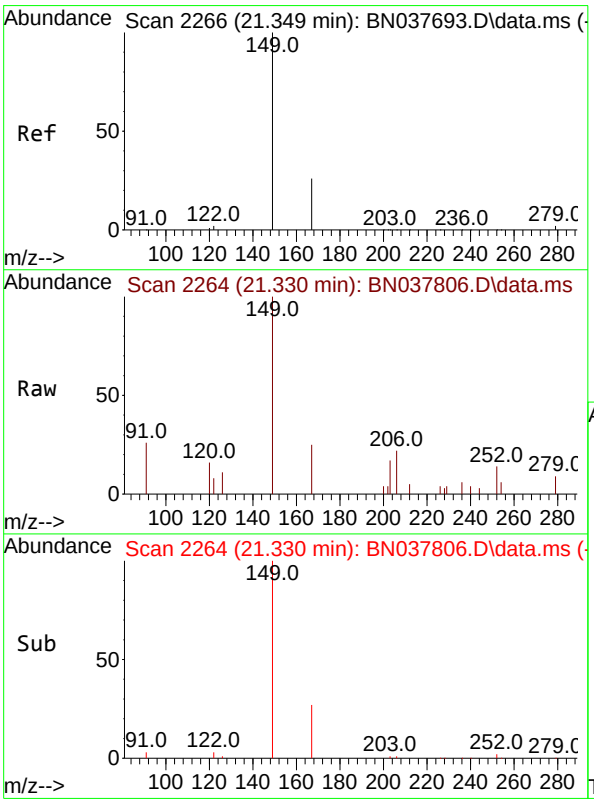
#31
Terphenyl-d14
Concen: 0.346 ng
RT: 19.856 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

Tgt Ion:244 Resp: 8422

Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.5	11.3
122	17.8	13.2	19.8

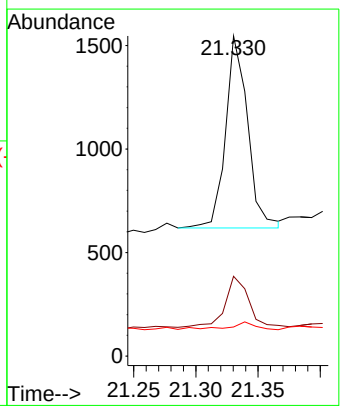


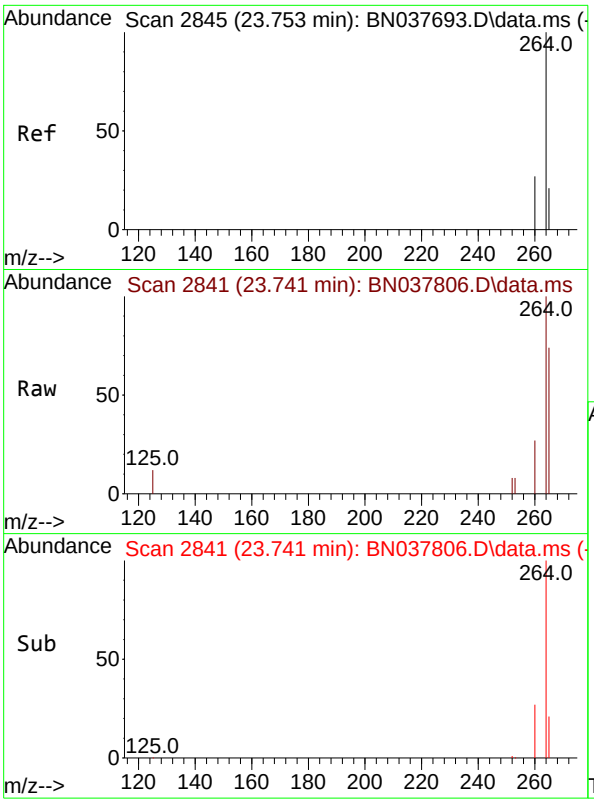


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.092 ng
RT: 21.330 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Tgt Ion:149 Resp: 1143

Ion	Ratio	Lower	Upper
149	100		
167	28.1	20.8	31.2
279	5.0	3.3	4.9#



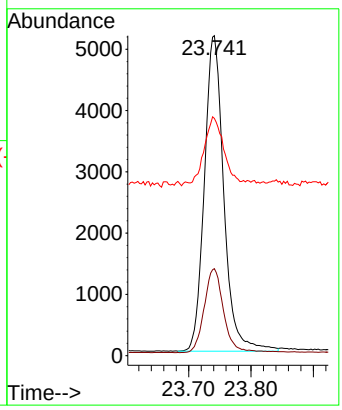


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

Tgt Ion:264 Resp: 11150

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.8	32.8
265	74.1	39.4	59.2#



Raw Data: **BN037807.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D1-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-19	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037807.D	1	09/16/25 09:39	09/19/25 10:02	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.00	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		65%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		94%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5780	7.833				
1146-65-2	Naphthalene-d8	15300	10.637				
15067-26-2	Acenaphthene-d10	6860	14.484				
1517-22-2	Phenanthrene-d10	12900	17.235				
1719-03-5	Chrysene-d12	11100	21.411				
1520-96-3	Perylene-d12	10400	23.738				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037807.D
Acq On : 19 Sep 2025 10:02
Operator : RC/JU
Sample : Q3097-19
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

Quant Time: Sep 19 11:09:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

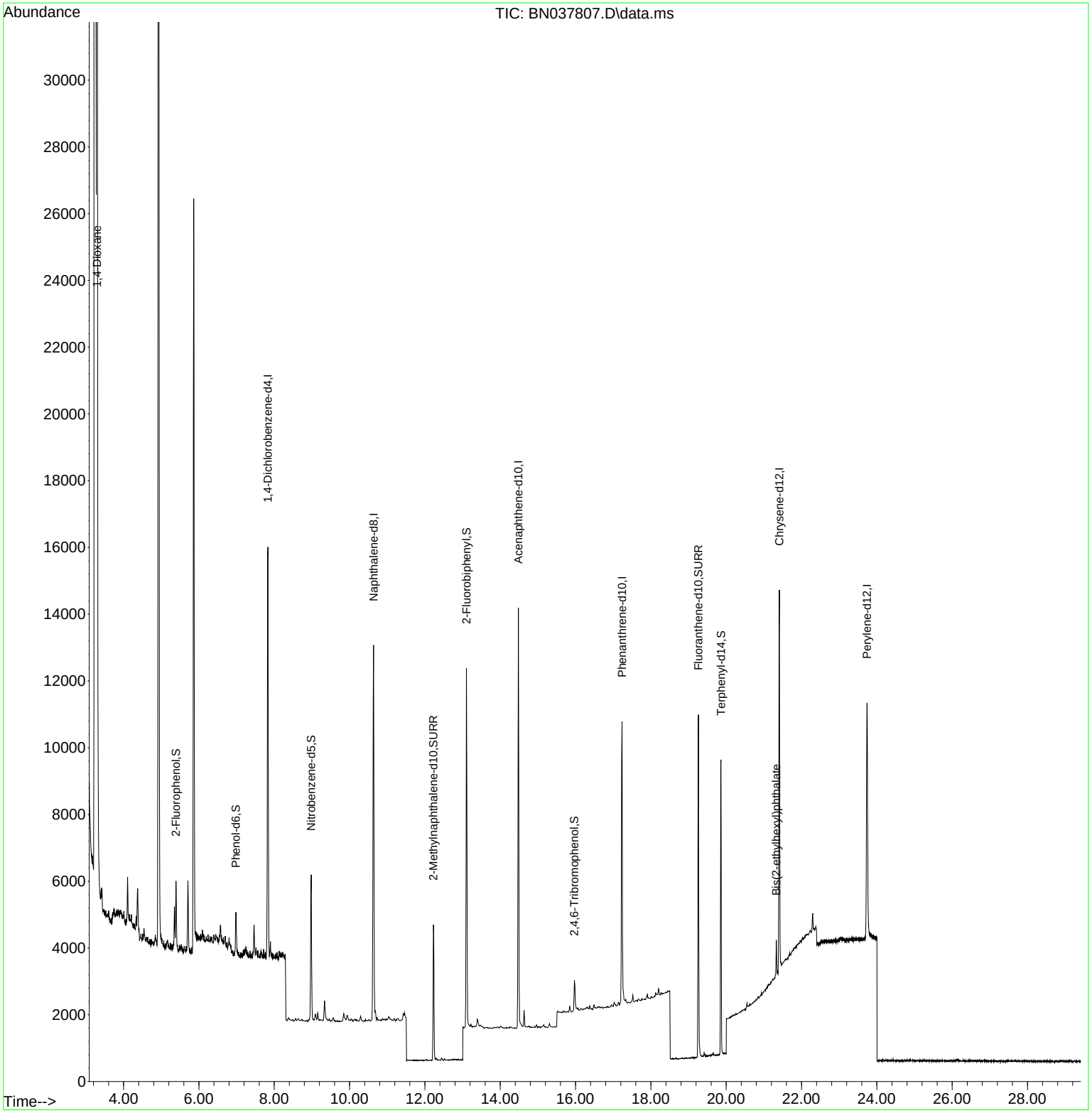
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5776	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15322	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	6856	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12918	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11066	0.400	ng	0.00
35) Perylene-d12	23.738	264	10367	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1604	0.121	ng	0.00
5) Phenol-d6	6.980	99	1181	0.069	ng	0.00
8) Nitrobenzene-d5	8.982	82	3535	0.315	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	5315	0.262	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	664	0.371	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	8978	0.313	ng	-0.01
27) Fluoranthene-d10	19.262	212	11202	0.345	ng	0.00
31) Terphenyl-d14	19.861	244	8410	0.374	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	42084	6.995	ng	94
34) Bis(2-ethylhexyl)phtha...	21.331	149	1043	0.091	ng	99

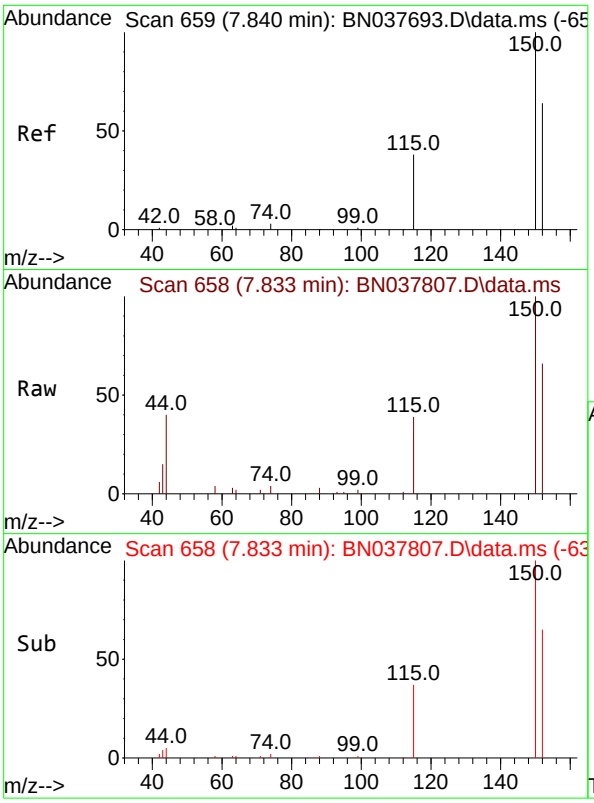
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037807.D
Acq On : 19 Sep 2025 10:02
Operator : RC/JU
Sample : Q3097-19
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

Quant Time: Sep 19 11:09:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



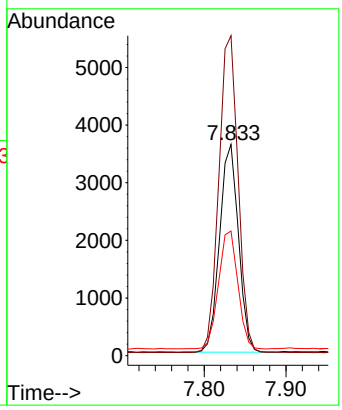


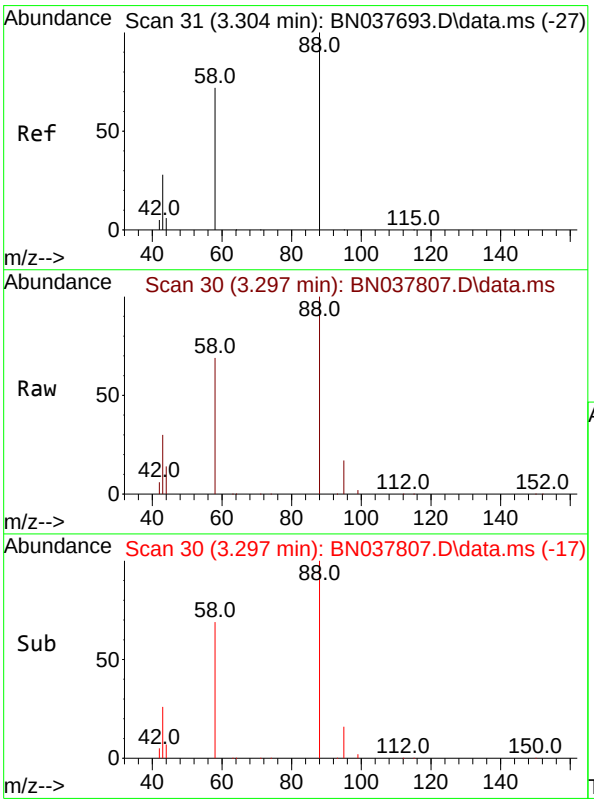
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

Tgt Ion:152 Resp: 5776

Ion	Ratio	Lower	Upper
152	100		
150	151.5	124.5	186.7
115	59.0	49.2	73.8

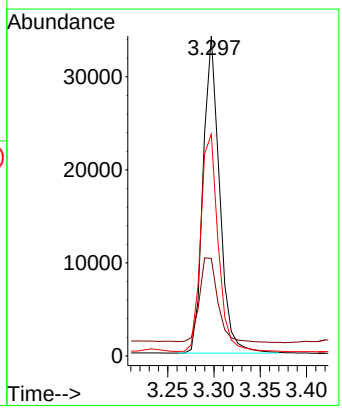


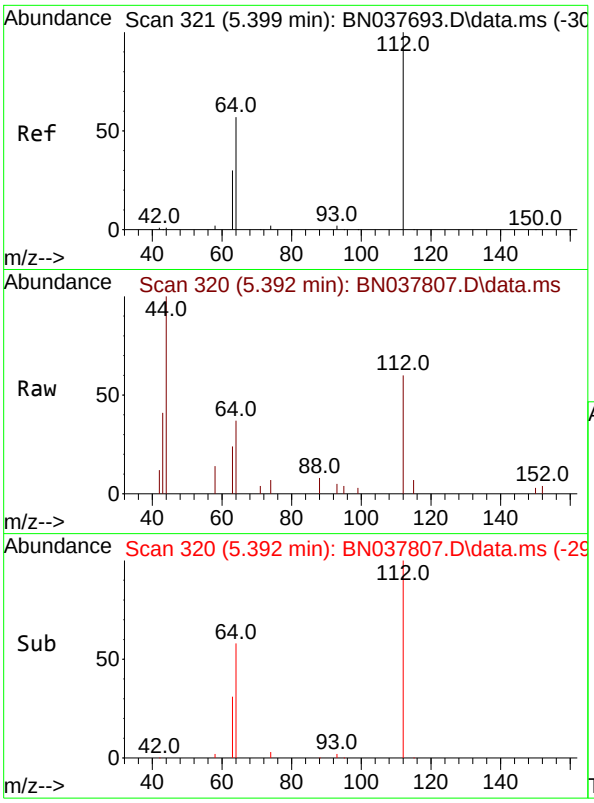


#2
1,4-Dioxane
Concen: 6.995 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Tgt Ion: 88 Resp: 42084

Ion	Ratio	Lower	Upper
88	100		
43	29.9	26.8	40.2
58	72.6	61.9	92.9



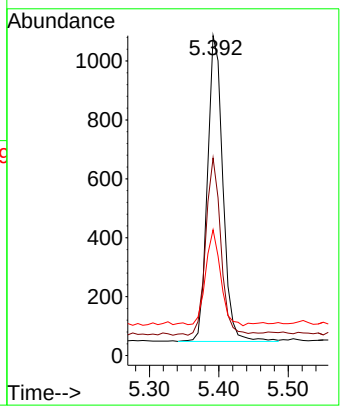


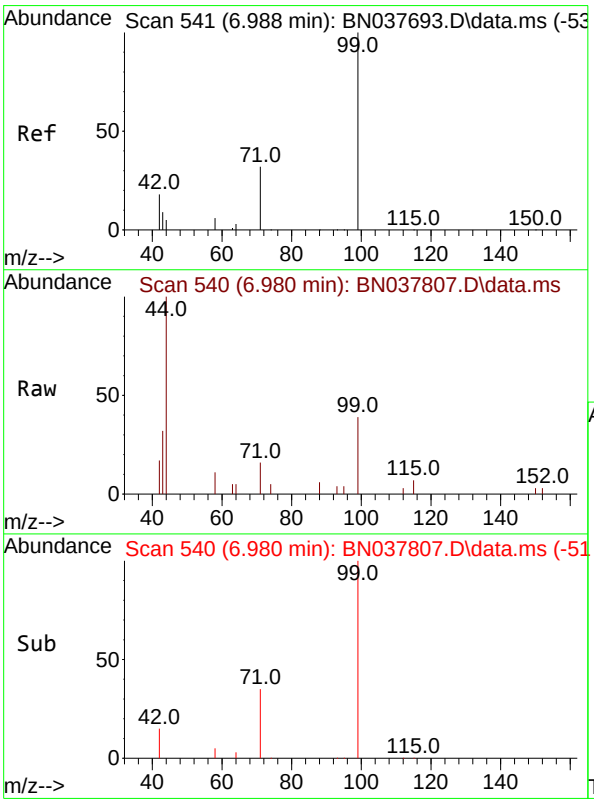
#4
2-Fluorophenol
Concen: 0.121 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

Tgt Ion:112 Resp: 1604

Ion	Ratio	Lower	Upper
112	100		
64	57.1	44.9	67.3
63	30.5	24.7	37.1

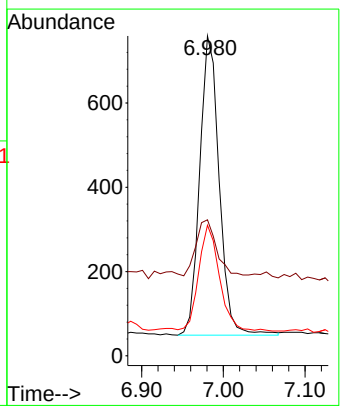


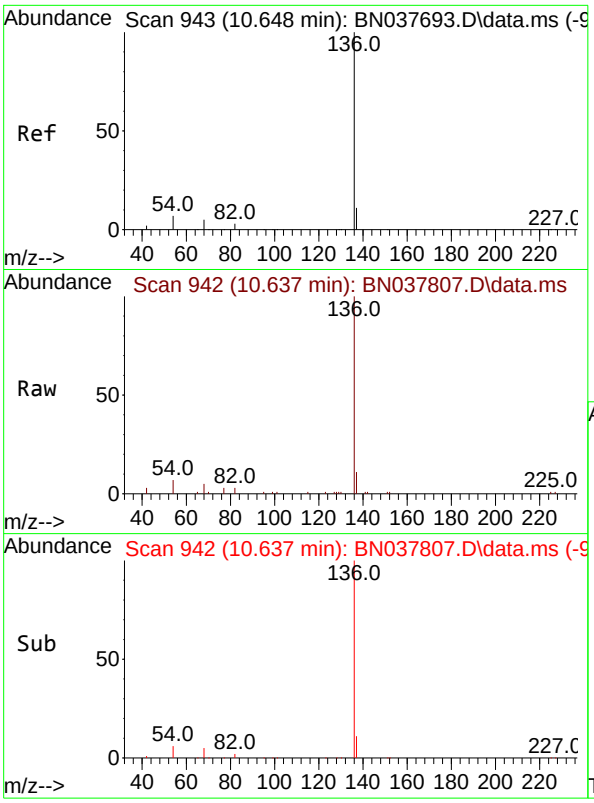


#5
Phenol-d6
Concen: 0.069 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Tgt Ion: 99 Resp: 1181

Ion	Ratio	Lower	Upper
99	100		
42	20.2	16.6	24.8
71	38.7	26.7	40.1



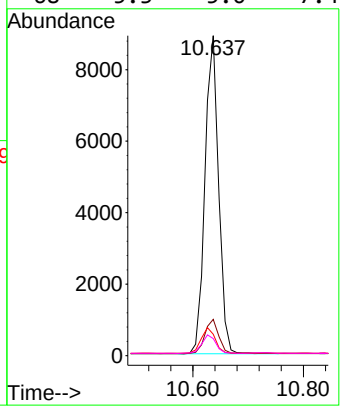


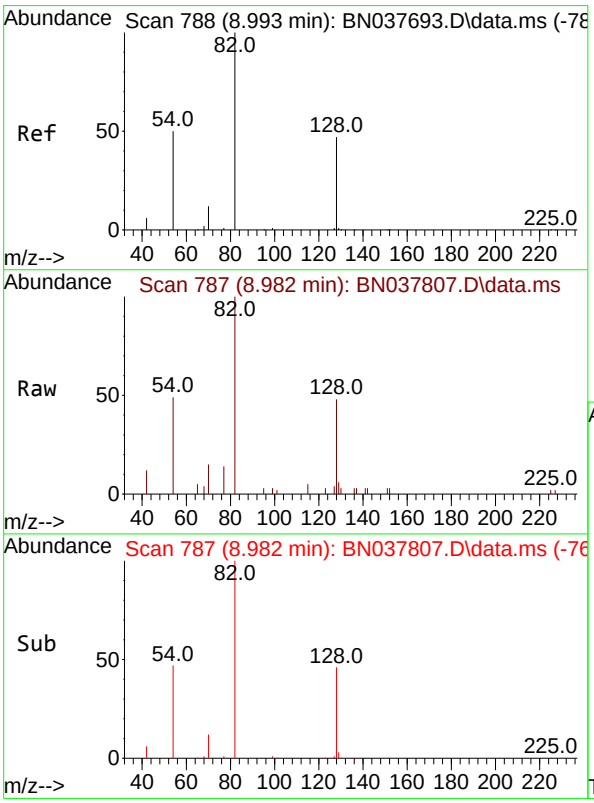
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

Tgt Ion:136 Resp: 15322

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	6.7	6.3	9.5
68	5.3	5.0	7.4

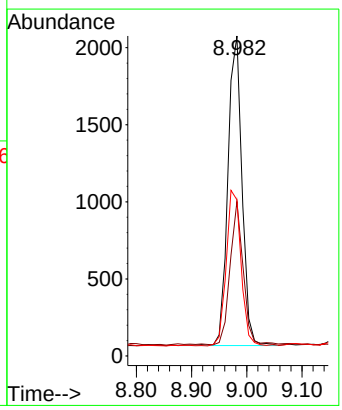


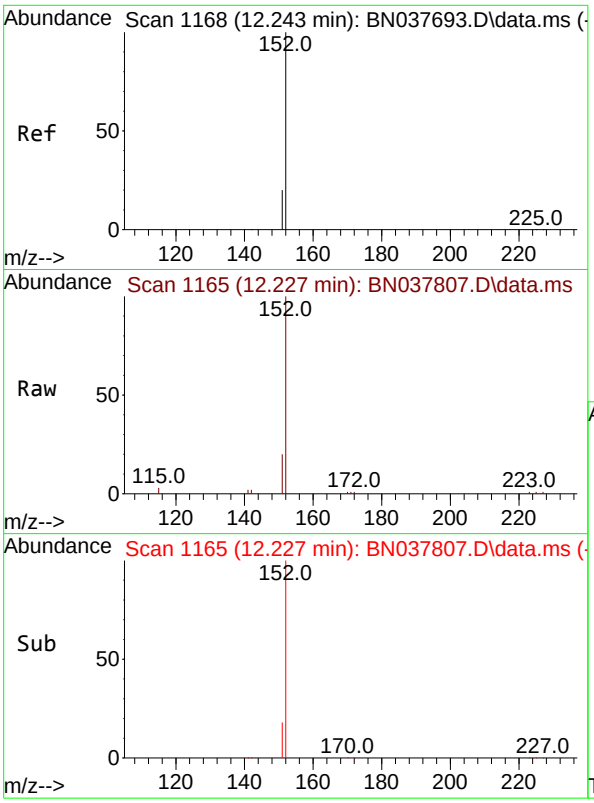


#8
Nitrobenzene-d5
Concen: 0.315 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Tgt Ion: 82 Resp: 3535

Ion	Ratio	Lower	Upper
82	100		
128	48.3	38.3	57.5
54	48.8	41.4	62.2



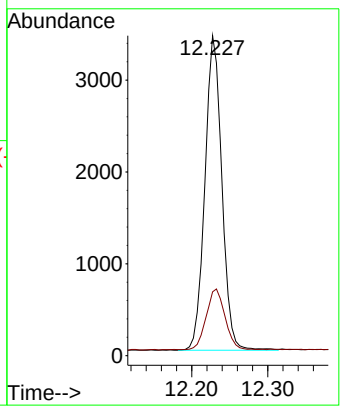


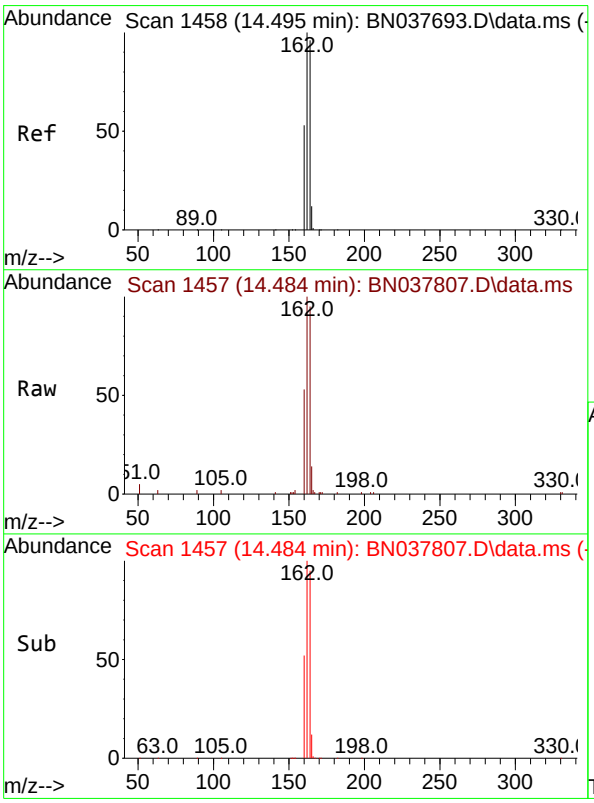
#11
2-Methylnaphthalene-d10
Concen: 0.262 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

Tgt Ion:152 Resp: 5315

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

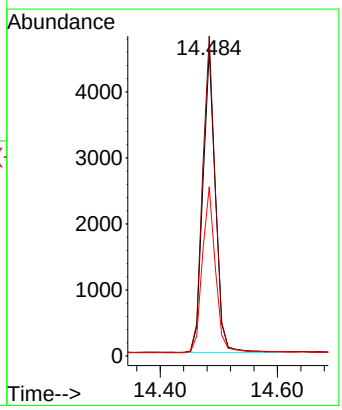


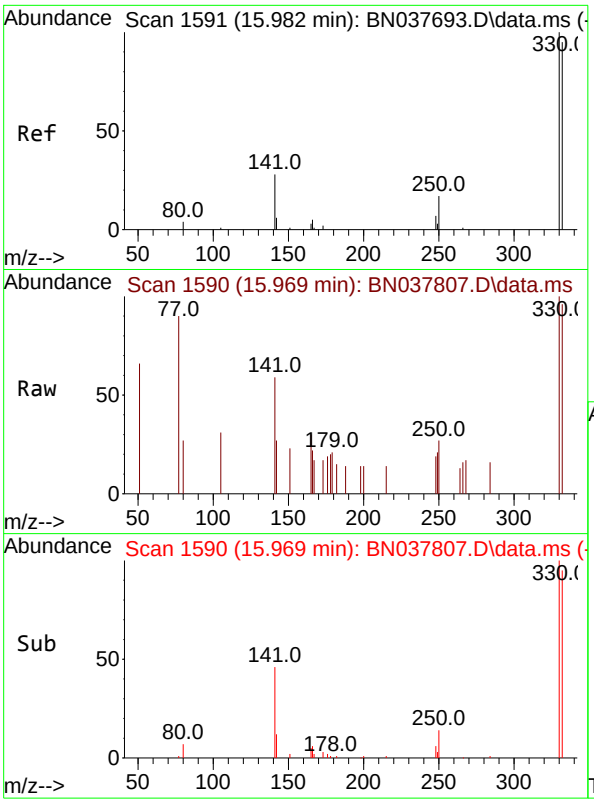


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Tgt Ion:164 Resp: 6856

Ion	Ratio	Lower	Upper
164	100		
162	104.9	83.1	124.7
160	55.4	44.3	66.5



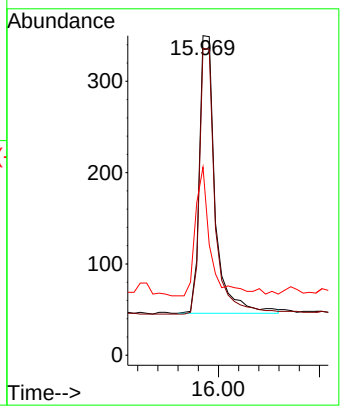


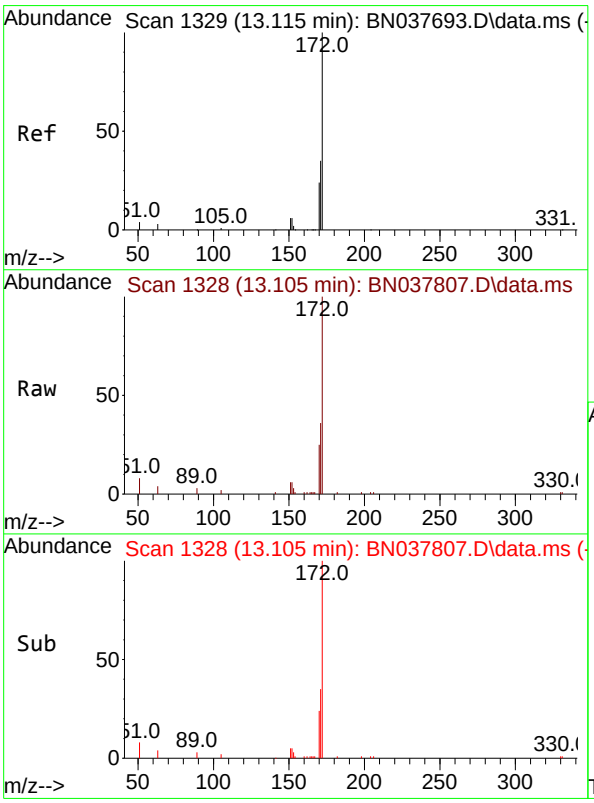
#14
2,4,6-Tribromophenol
Concen: 0.371 ng
RT: 15.969 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

Tgt Ion:330 Resp: 664

Ion	Ratio	Lower	Upper
330	100		
332	94.6	75.3	112.9
141	43.2	35.0	52.4

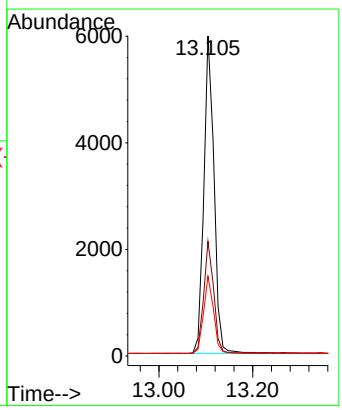


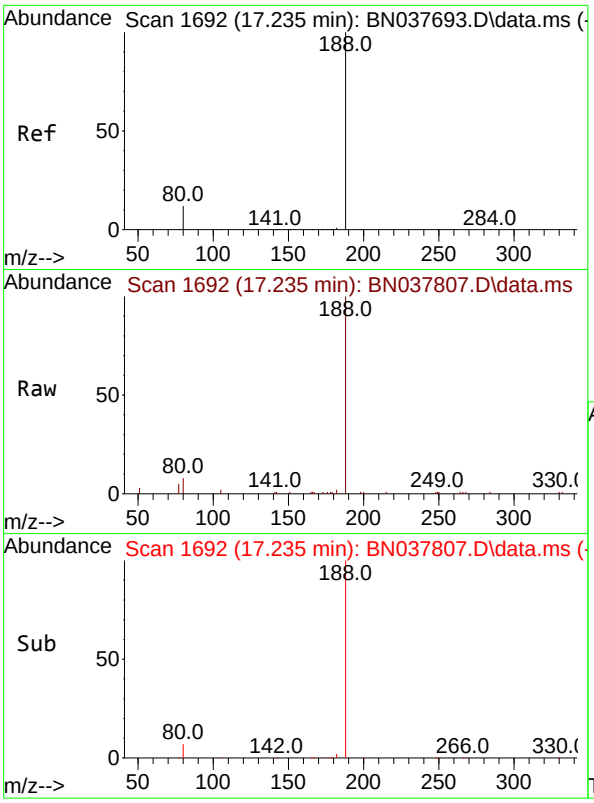


#15
2-Fluorobiphenyl
Concen: 0.313 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Tgt Ion:172 Resp: 8978

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.9	19.8	29.8



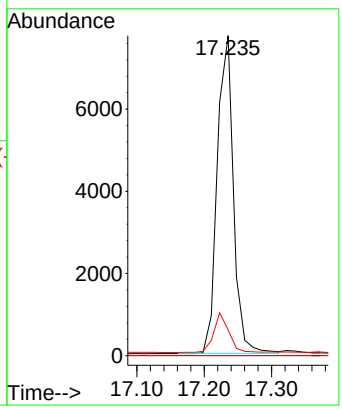


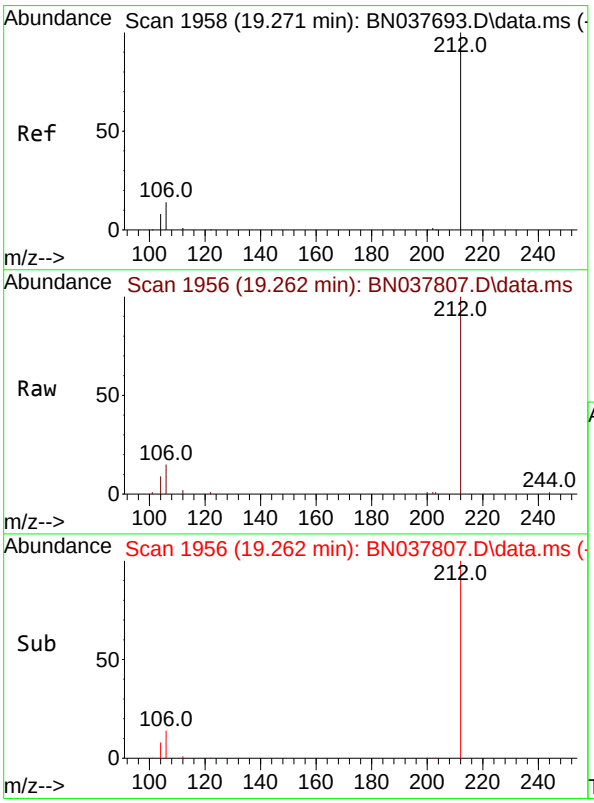
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

Tgt Ion:188 Resp: 12918

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.0	10.6	15.8#

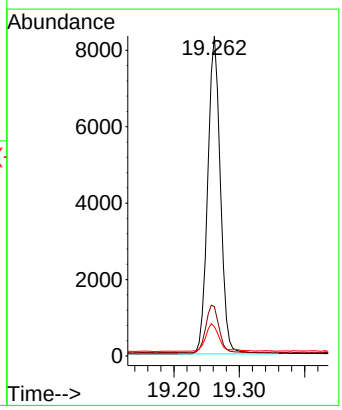


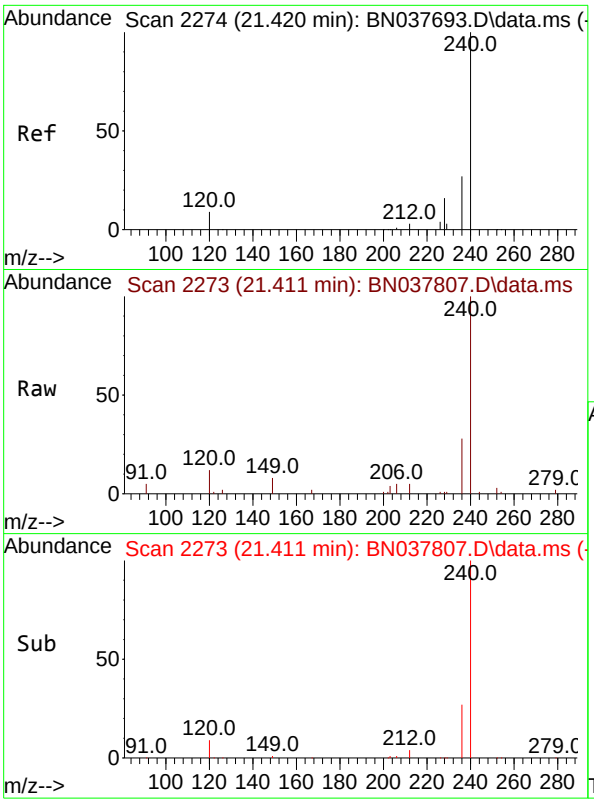


#27
Fluoranthene-d10
Concen: 0.345 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Tgt Ion:212 Resp: 11202

Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	9.2	6.9	10.3



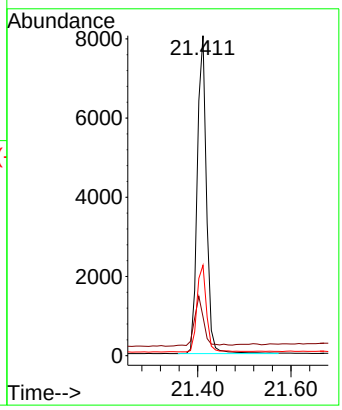


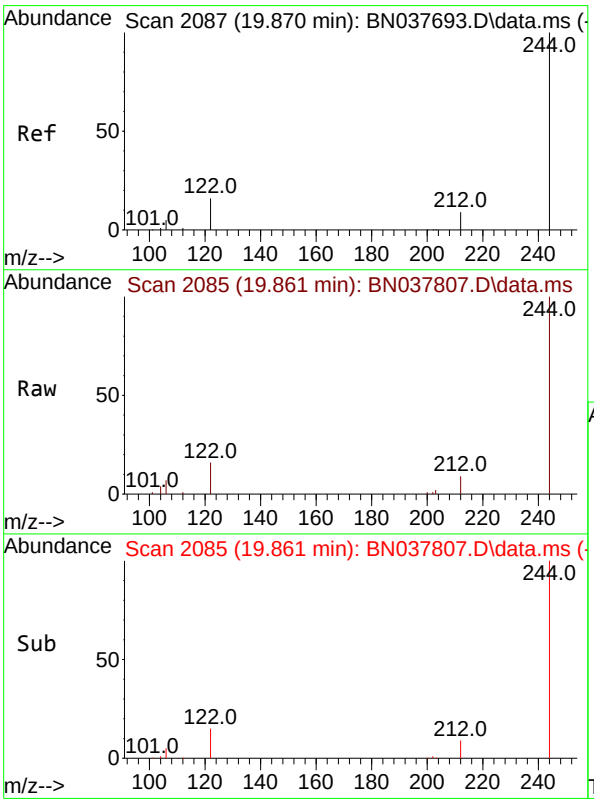
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

Tgt Ion:240 Resp: 11066

Ion	Ratio	Lower	Upper
240	100		
120	12.2	9.2	13.8
236	28.3	22.6	33.8

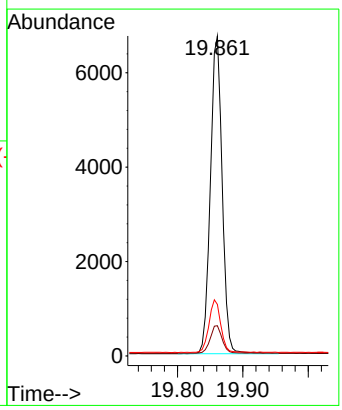


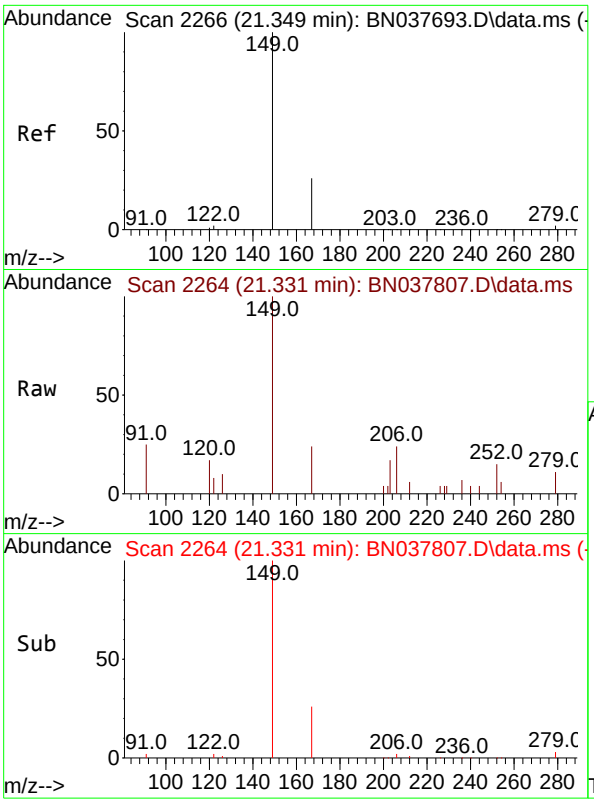


#31
Terphenyl-d14
Concen: 0.374 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Tgt Ion:244 Resp: 8410

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	16.1	13.2	19.8



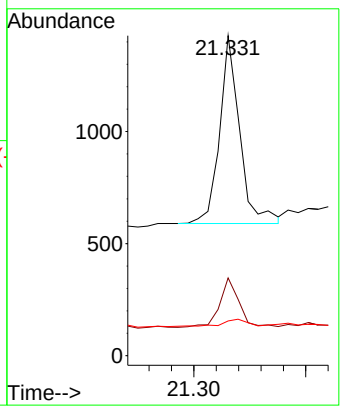


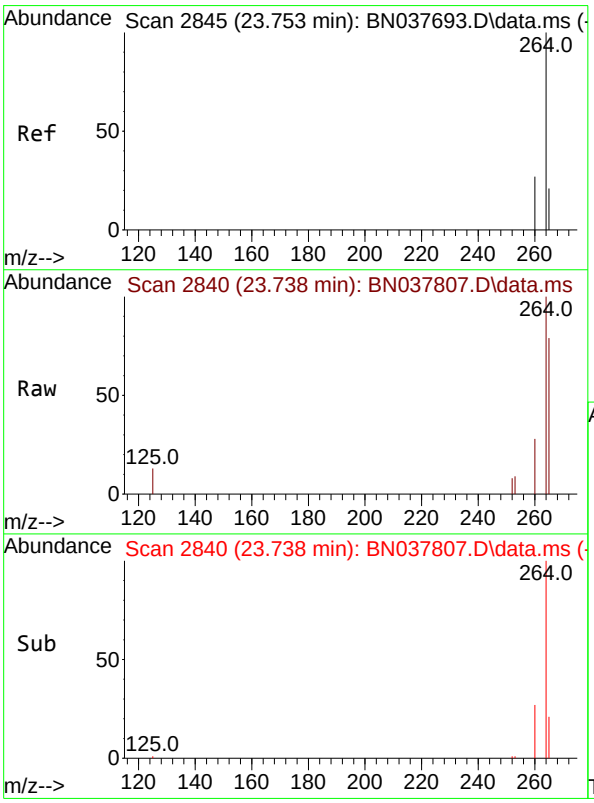
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.091 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

Tgt Ion:149 Resp: 1043

Ion	Ratio	Lower	Upper
149	100		
167	25.7	20.8	31.2
279	4.4	3.3	4.9

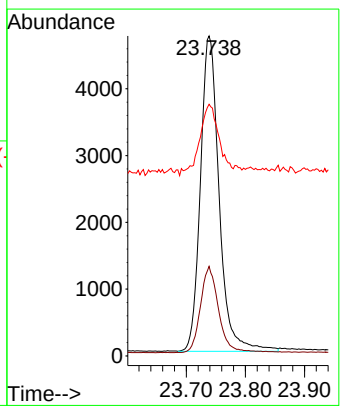




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Tgt Ion:264 Resp: 10367

Ion	Ratio	Lower	Upper
264	100		
260	28.0	21.8	32.8
265	78.6	39.4	59.2#



Raw Data: **BN037818.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D1-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-19DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037818.D	2	09/16/25 09:39	09/19/25 17:21	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.10	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.18		30 - 150		46%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.22		30 - 150		56%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.23		55 - 111		58%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.22		53 - 106		54%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.27		58 - 132		67%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8130	7.833				
1146-65-2	Naphthalene-d8	21300	10.637				
15067-26-2	Acenaphthene-d10	9040	14.484				
1517-22-2	Phenanthrene-d10	15100	17.235				
1719-03-5	Chrysene-d12	11400	21.411				
1520-96-3	Perylene-d12	11400	23.744				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037818.D
Acq On : 19 Sep 2025 17:21
Operator : RC/JU
Sample : Q3097-19DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

Quant Time: Sep 19 18:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

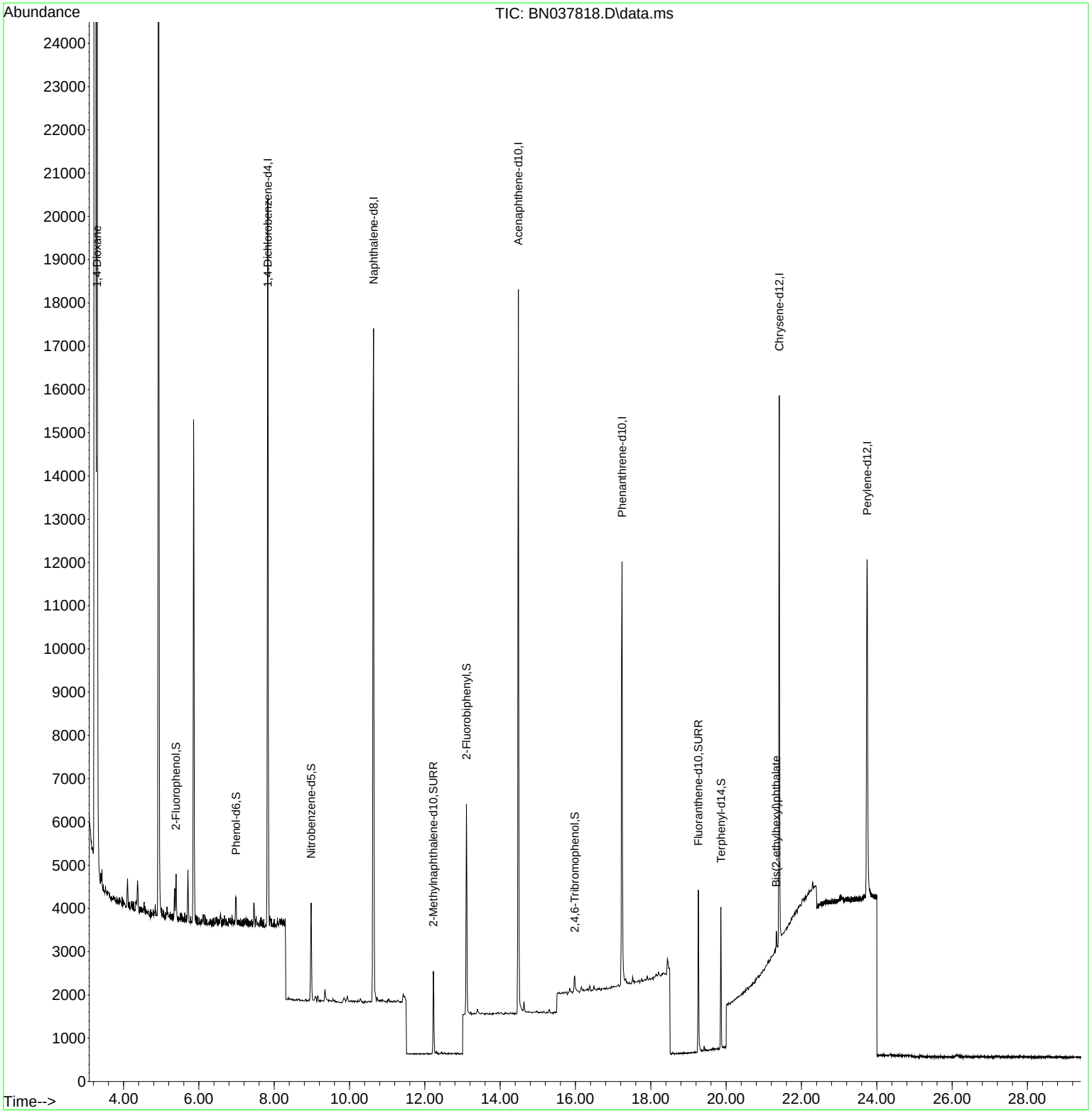
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	8131	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	21334	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	9041	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	15081	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11372	0.400	ng	0.00
35) Perylene-d12	23.744	264	11377	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	836	0.045	ng	0.00
5) Phenol-d6	6.988	99	601	0.025	ng	0.00
8) Nitrobenzene-d5	8.982	82	1832	0.117	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	2602	0.092	ng	-0.02
14) 2,4,6-Tribromophenol	15.982	330	298	0.126	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	4101	0.108	ng	-0.01
27) Fluoranthene-d10	19.262	212	4190	0.111	ng	0.00
31) Terphenyl-d14	19.861	244	3082	0.134	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	21691	2.561	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	479	0.041	ng	# 96

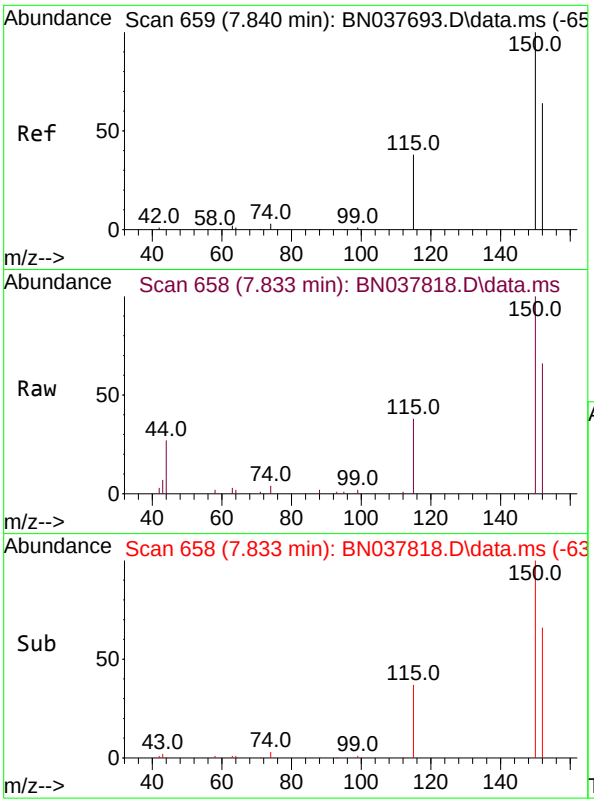
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037818.D
Acq On : 19 Sep 2025 17:21
Operator : RC/JU
Sample : Q3097-19DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

Quant Time: Sep 19 18:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



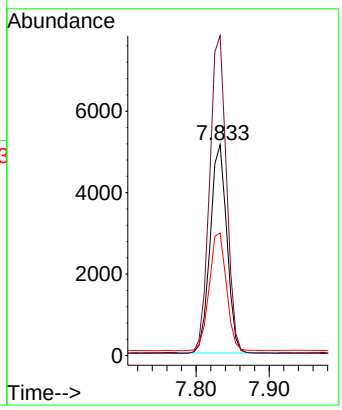


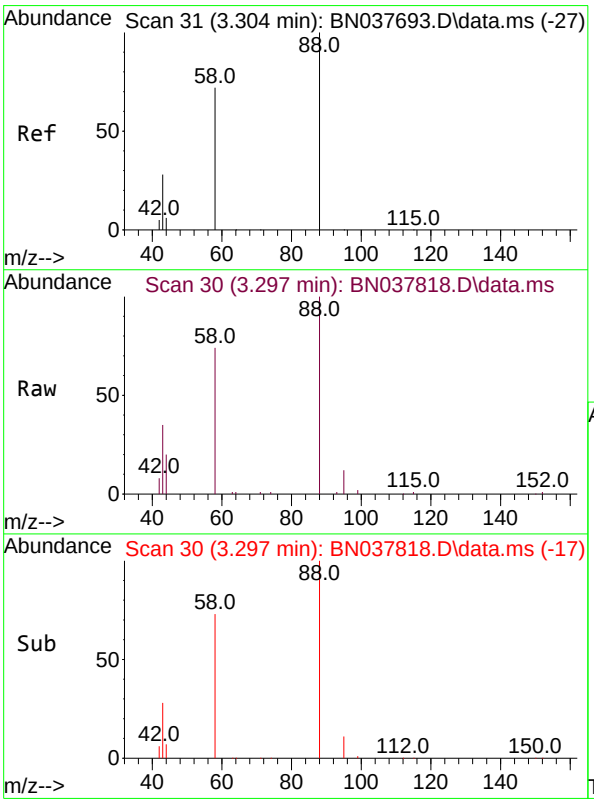
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

Tgt Ion:152 Resp: 8131

Ion	Ratio	Lower	Upper
152	100		
150	151.6	124.5	186.7
115	58.1	49.2	73.8

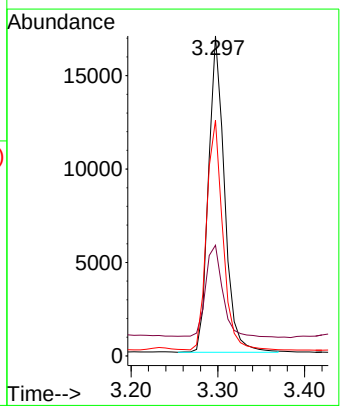


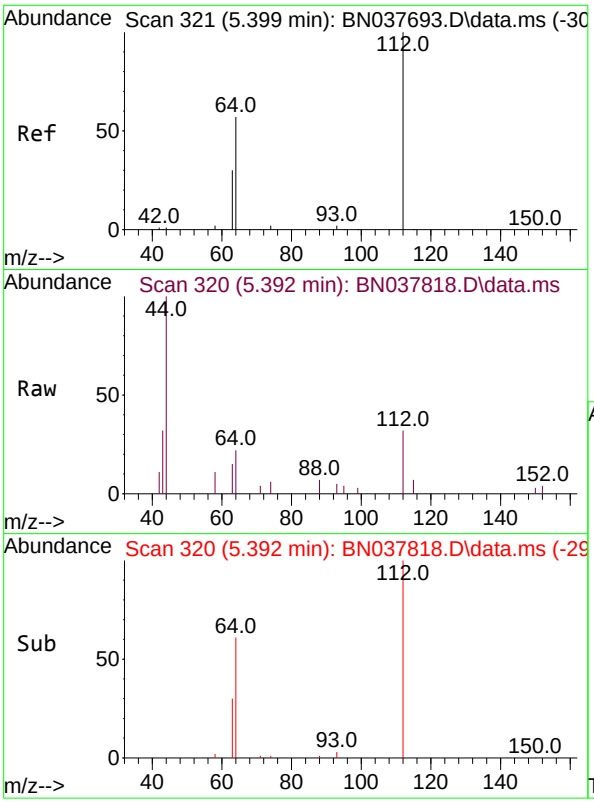


#2
1,4-Dioxane
Concen: 2.561 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion: 88 Resp: 21691

Ion	Ratio	Lower	Upper
88	100		
43	31.2	26.8	40.2
58	73.4	61.9	92.9



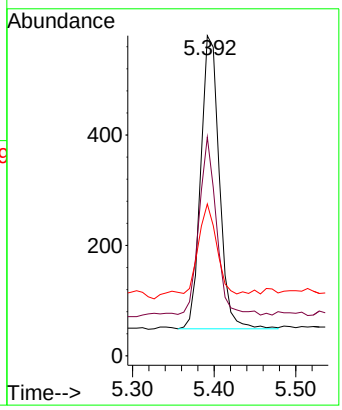


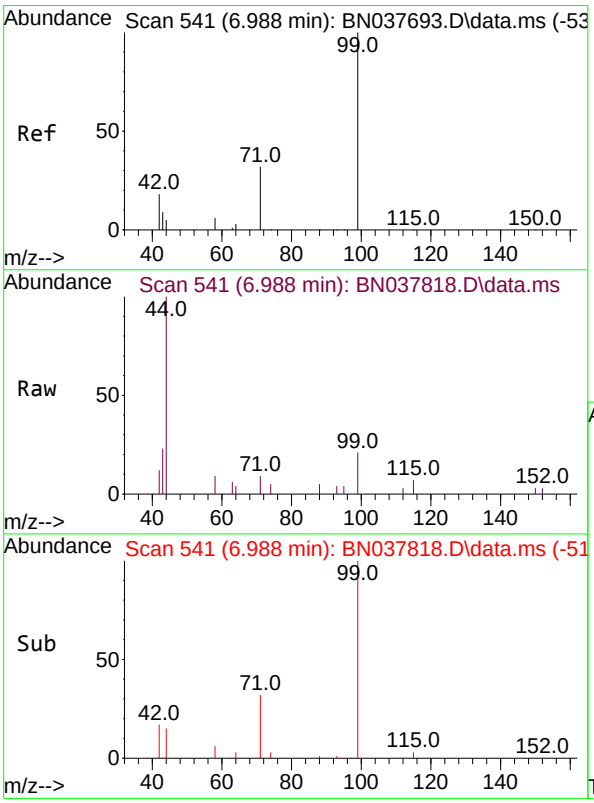
#4
2-Fluorophenol
Concen: 0.045 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

Tgt Ion:112 Resp: 836

Ion	Ratio	Lower	Upper
112	100		
64	61.2	44.9	67.3
63	36.5	24.7	37.1

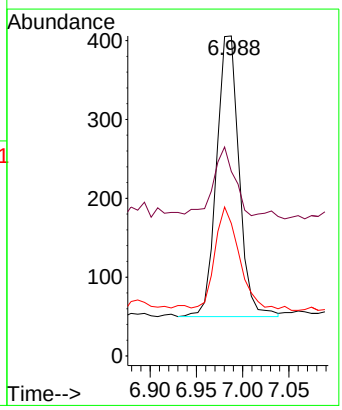


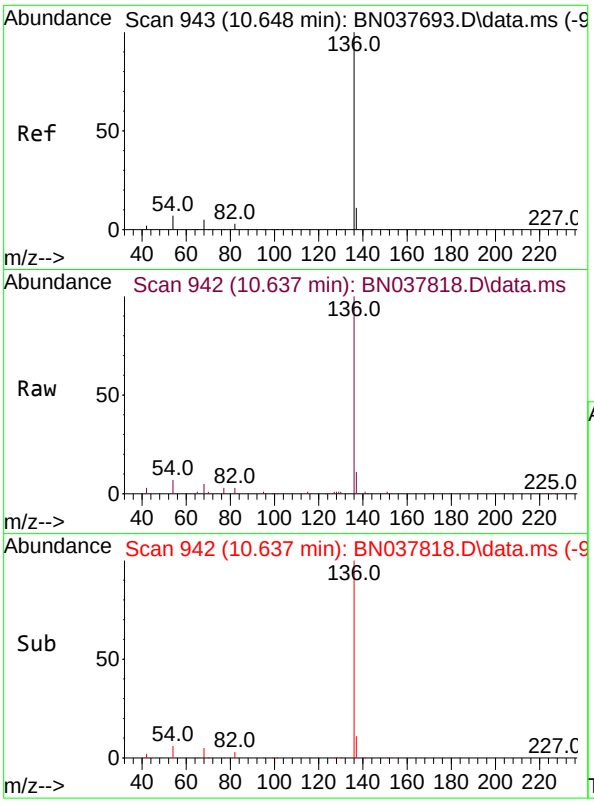


#5
Phenol-d6
Concen: 0.025 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion: 99 Resp: 601

Ion	Ratio	Lower	Upper
99	100		
42	23.0	16.6	24.8
71	41.3	26.7	40.1#



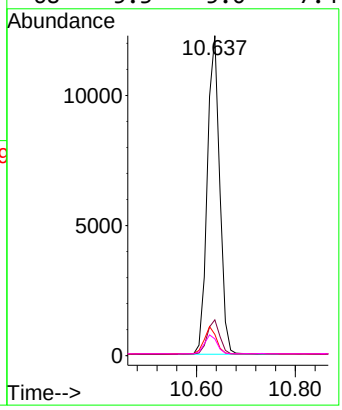


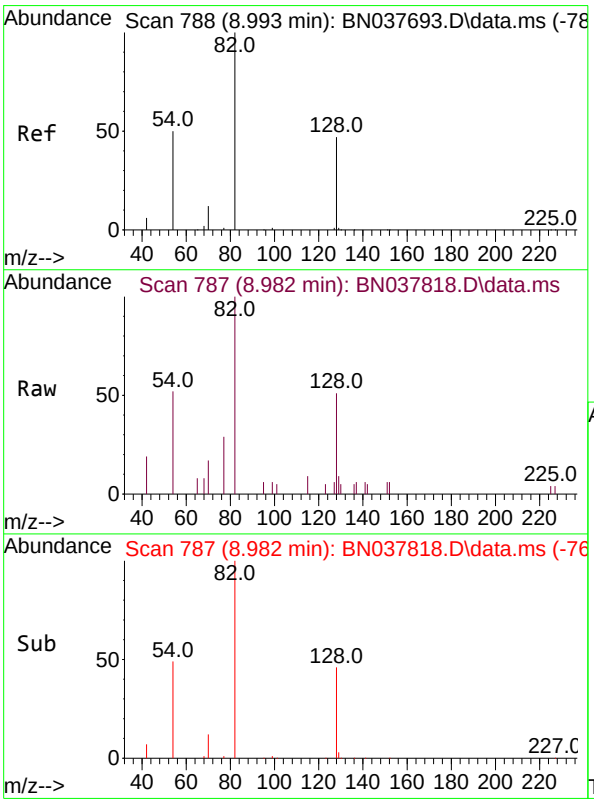
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

Tgt Ion:136 Resp: 21334

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.6	6.3	9.5
68	5.3	5.0	7.4

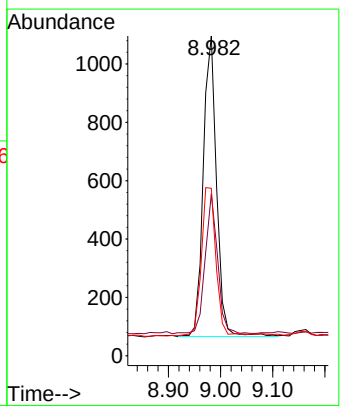


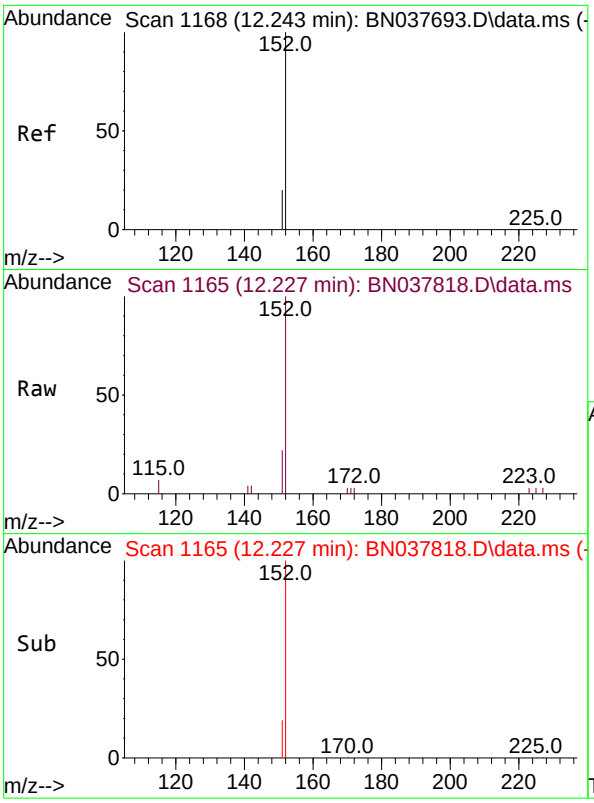


#8
Nitrobenzene-d5
Concen: 0.117 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion: 82 Resp: 1832

Ion	Ratio	Lower	Upper
82	100		
128	50.6	38.3	57.5
54	52.4	41.4	62.2



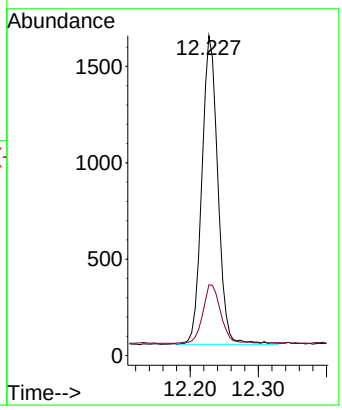


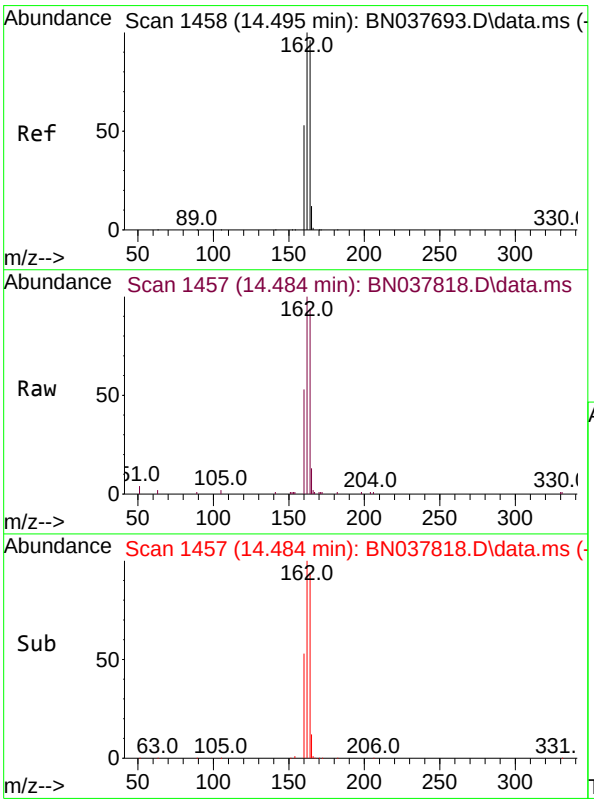
#11
2-Methylnaphthalene-d10
Concen: 0.092 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

Tgt Ion:152 Resp: 2602

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.0	25.6

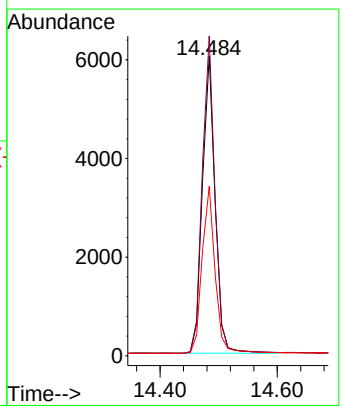


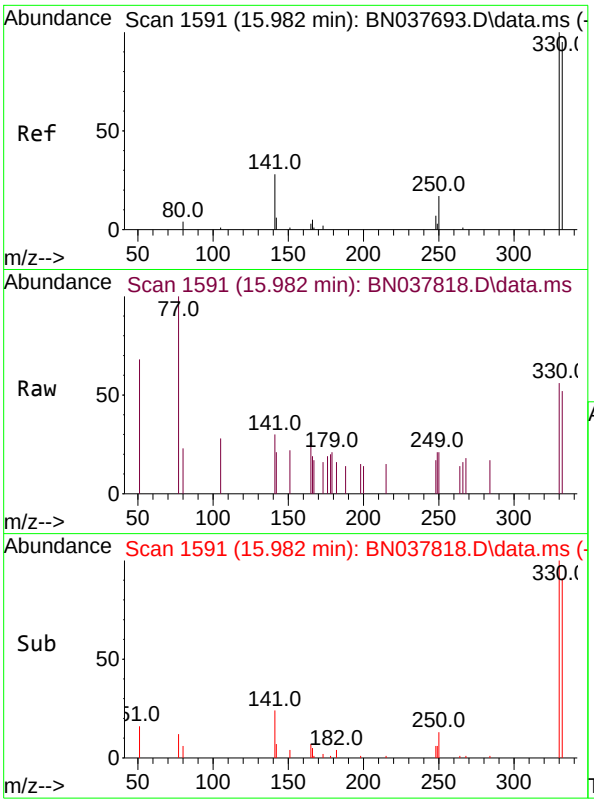


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion:164 Resp: 9041

Ion	Ratio	Lower	Upper
164	100		
162	106.6	83.1	124.7
160	56.5	44.3	66.5



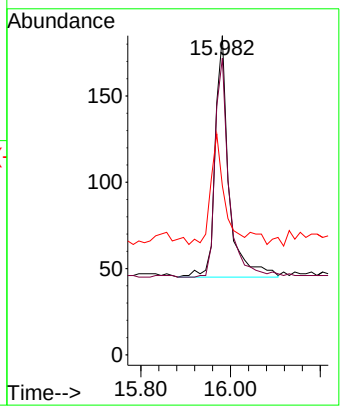


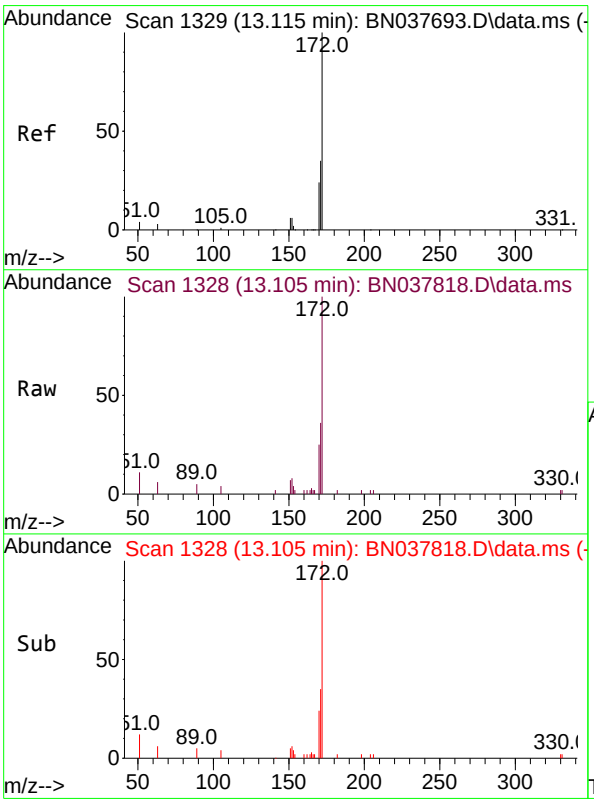
#14
2,4,6-Tribromophenol
Concen: 0.126 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

Tgt Ion:330 Resp: 298

Ion	Ratio	Lower	Upper
330	100		
332	91.6	75.3	112.9
141	46.0	35.0	52.4

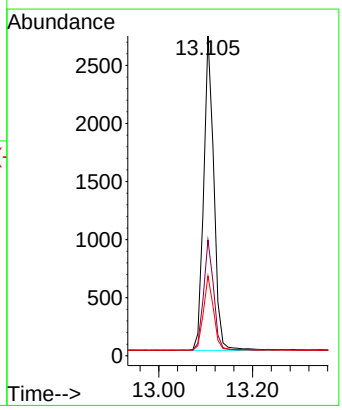


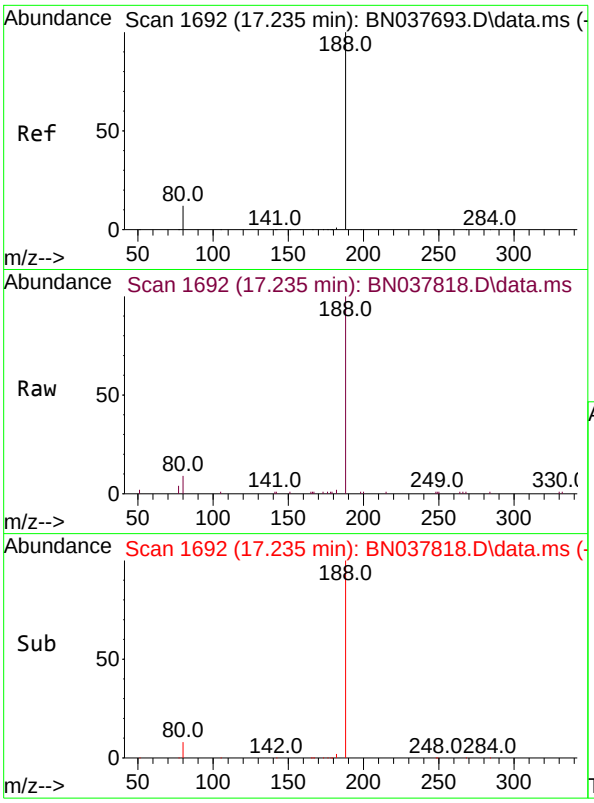


#15
2-Fluorobiphenyl
Concen: 0.108 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion:172 Resp: 4101

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	24.9	19.8	29.8



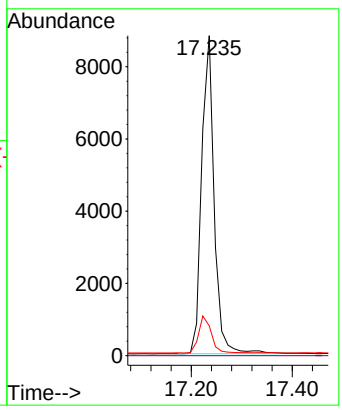


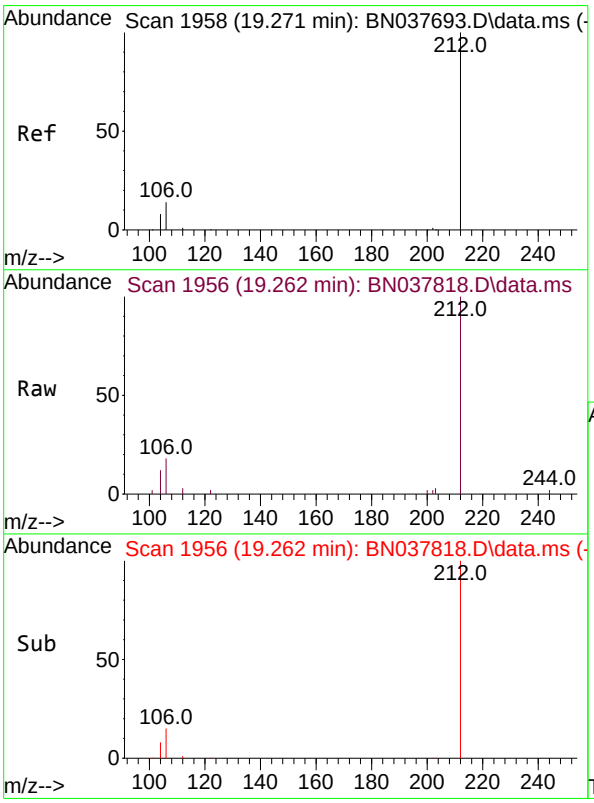
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

Tgt Ion:188 Resp: 15081

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.3	10.6	15.8#

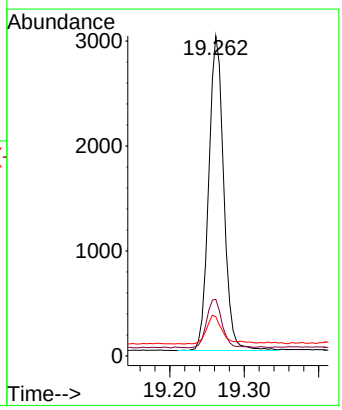


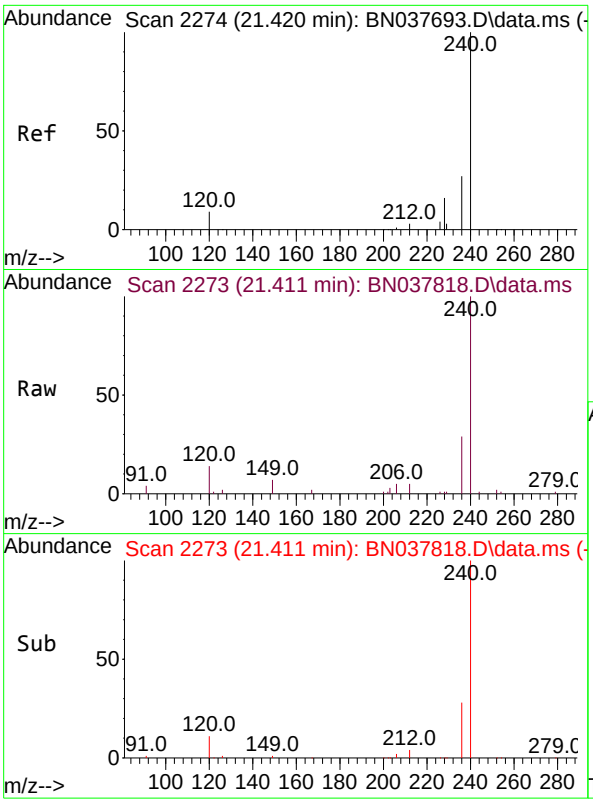


#27
Fluoranthene-d10
Concen: 0.111 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion:212 Resp: 4190

Ion	Ratio	Lower	Upper
212	100		
106	16.1	12.2	18.2
104	9.2	6.9	10.3



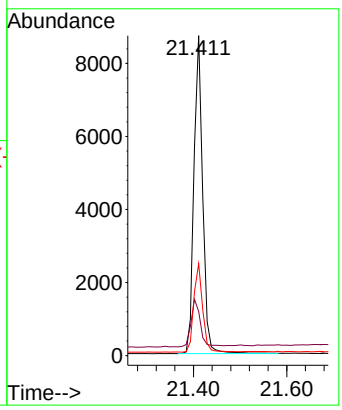


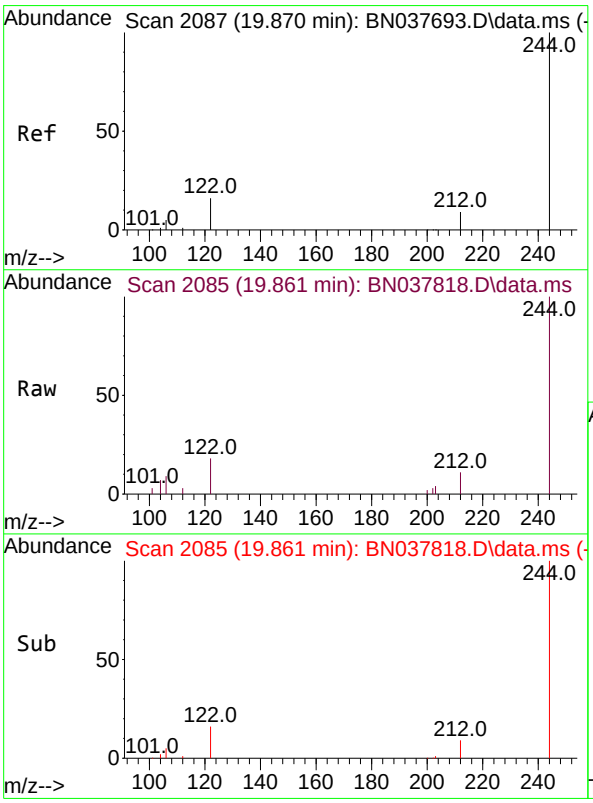
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

Tgt Ion:240 Resp: 11372

Ion	Ratio	Lower	Upper
240	100		
120	13.8	9.2	13.8
236	28.8	22.6	33.8

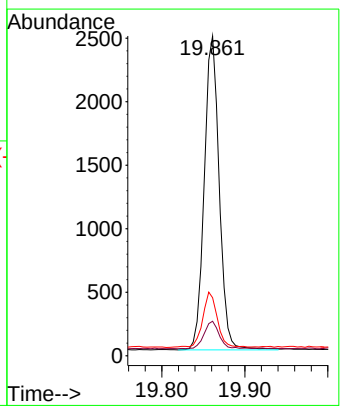


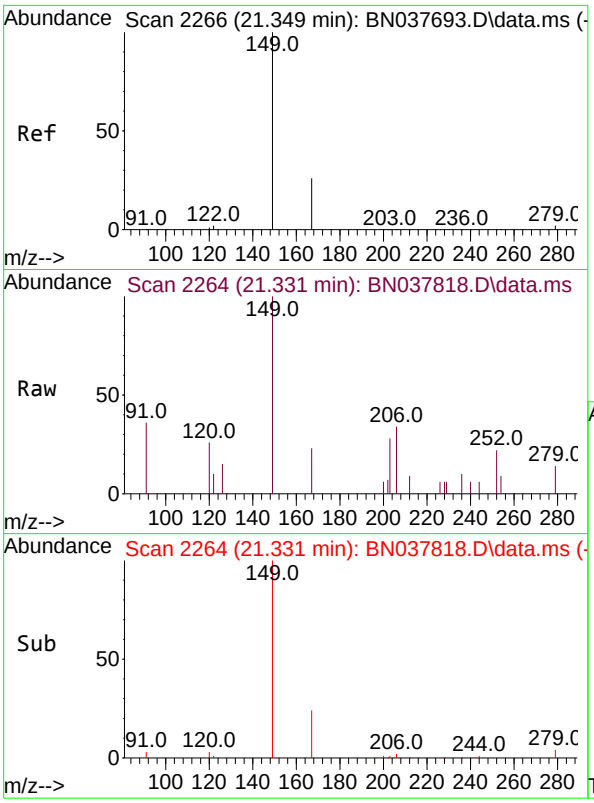


#31
Terphenyl-d14
Concen: 0.134 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion:244 Resp: 3082

Ion	Ratio	Lower	Upper
244	100		
212	10.8	7.5	11.3
122	18.1	13.2	19.8



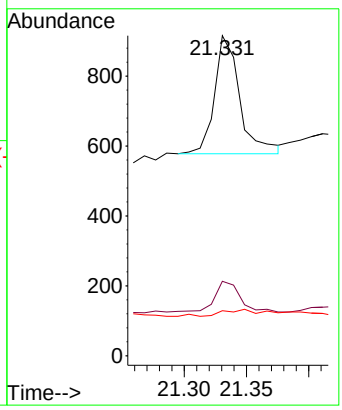


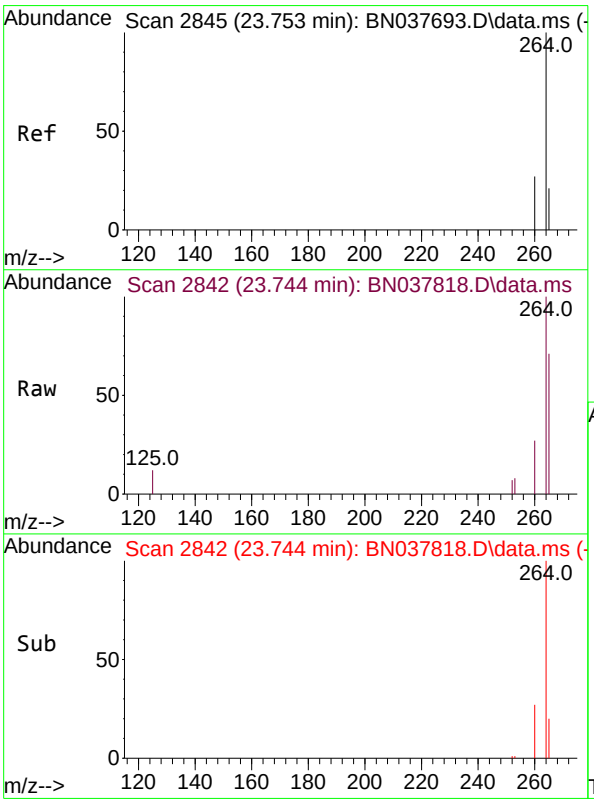
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.041 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

Tgt Ion:149 Resp: 479

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.8	31.2
279	13.8	3.3	4.9#

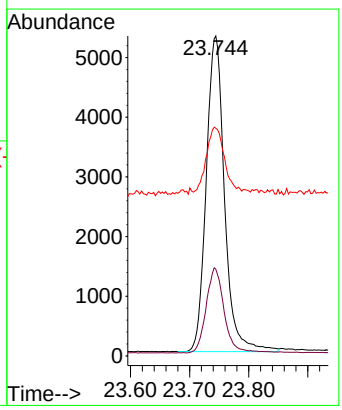




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion:264 Resp: 11377

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.8	32.8
265	71.1	39.4	59.2#



Raw Data: **BN037844.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP06-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-20	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037844.D	1	09/16/25 09:39	09/20/25 09:51	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.40	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5680	7.825				
1146-65-2	Naphthalene-d8	14800	10.626				
15067-26-2	Acenaphthene-d10	5980	14.484				
1517-22-2	Phenanthrene-d10	10300	17.223				
1719-03-5	Chrysene-d12	8650	21.402				
1520-96-3	Perylene-d12	8410	23.738				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **BN037844.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037844.D
Acq On : 20 Sep 2025 09:51
Operator : RC/JU
Sample : Q3097-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

Quant Time: Sep 22 00:37:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

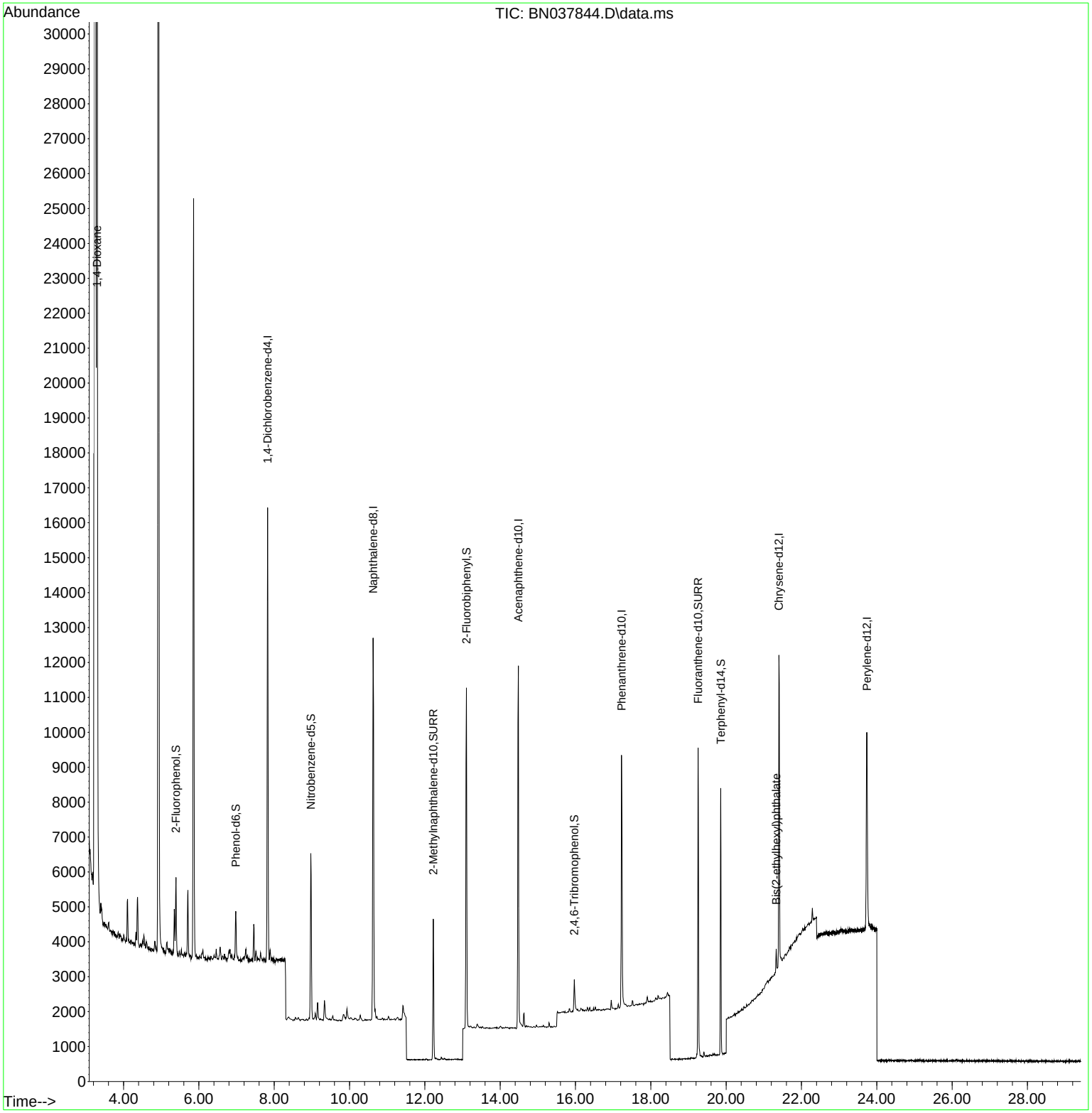
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.825	152	5678	0.400	ng		-0.01
7) Naphthalene-d8	10.626	136	14769	0.400	ng		#-0.02
13) Acenaphthene-d10	14.484	164	5979	0.400	ng		-0.01
19) Phenanthrene-d10	17.223	188	10331	0.400	ng		-0.01
29) Chrysene-d12	21.402	240	8651	0.400	ng		#-0.02
35) Perylene-d12	23.738	264	8407	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.392	112	1684	0.129	ng		0.00
5) Phenol-d6	6.980	99	1204	0.071	ng		0.00
8) Nitrobenzene-d5	8.971	82	3919	0.363	ng		-0.02
11) 2-Methylnaphthalene-d10	12.222	152	5475	0.280	ng		-0.02
14) 2,4,6-Tribromophenol	15.969	330	594	0.381	ng		-0.01
15) 2-Fluorobiphenyl	13.105	172	8318	0.333	ng		-0.01
27) Fluoranthene-d10	19.257	212	9565	0.369	ng		-0.01
31) Terphenyl-d14	19.856	244	6944	0.395	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	43571	7.367	ng		96
34) Bis(2-ethylhexyl)phtha...	21.331	149	753	0.084	ng	#	96

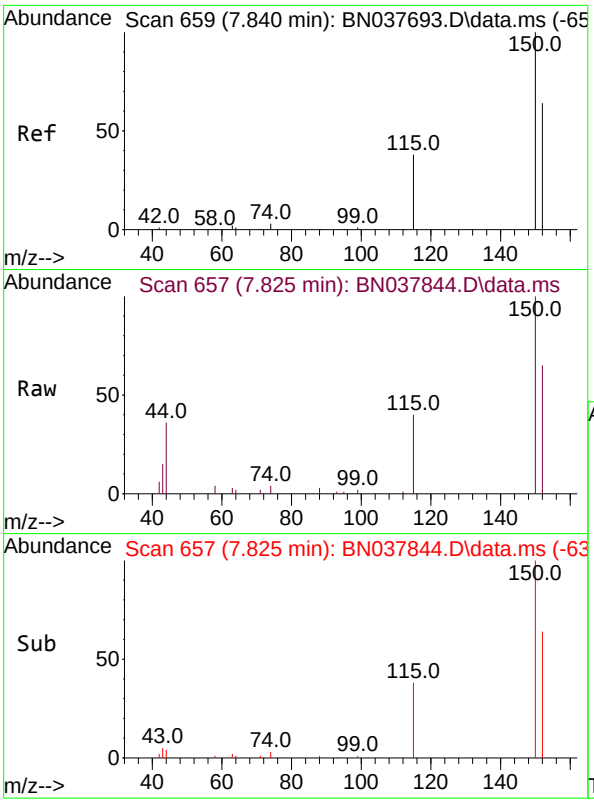
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037844.D
Acq On : 20 Sep 2025 09:51
Operator : RC/JU
Sample : Q3097-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

Quant Time: Sep 22 00:37:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



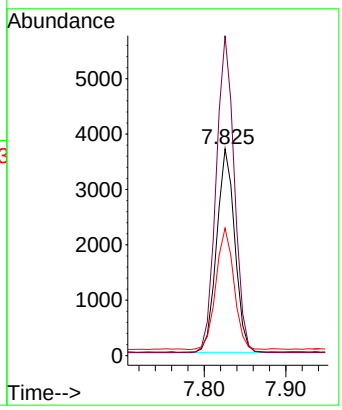


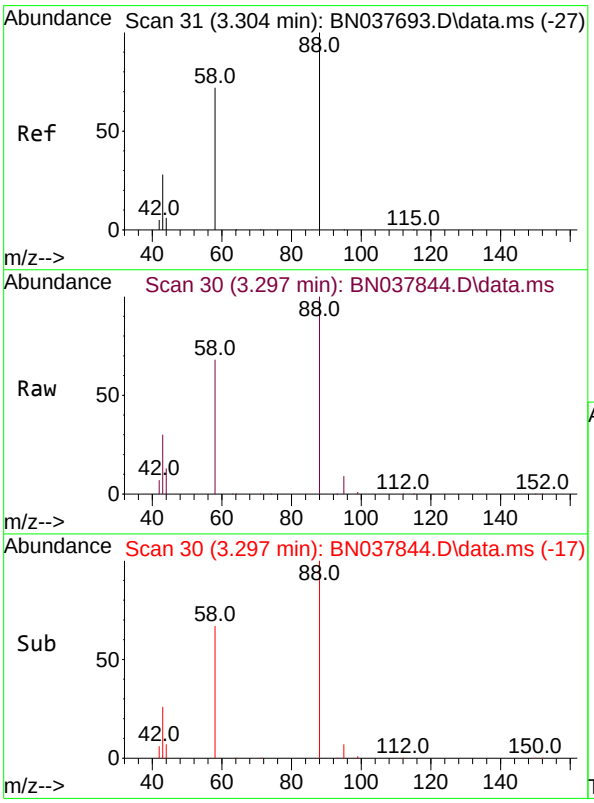
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

Tgt Ion:152 Resp: 5678

Ion	Ratio	Lower	Upper
152	100		
150	154.7	124.5	186.7
115	61.6	49.2	73.8

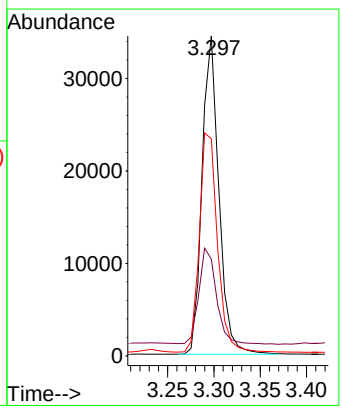


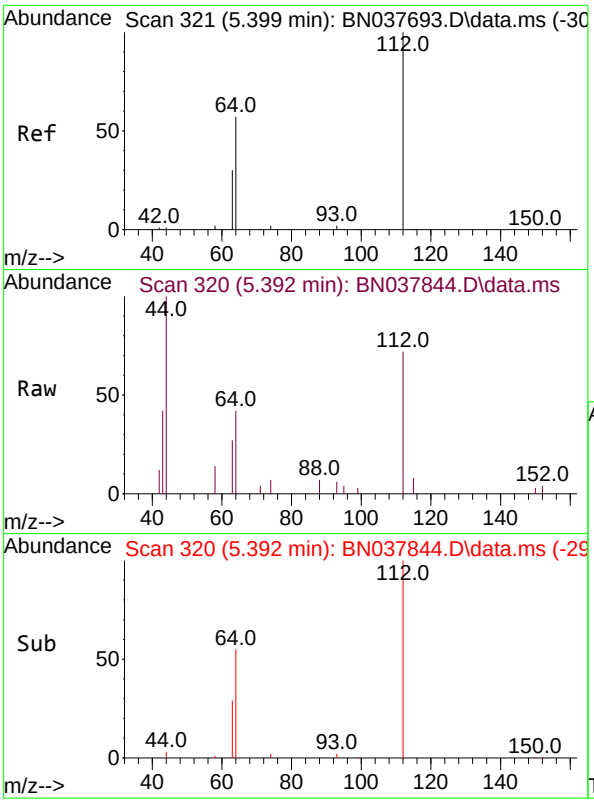


#2
1,4-Dioxane
Concen: 7.367 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion: 88 Resp: 43571

Ion	Ratio	Lower	Upper
88	100		
43	31.8	26.8	40.2
58	73.8	61.9	92.9



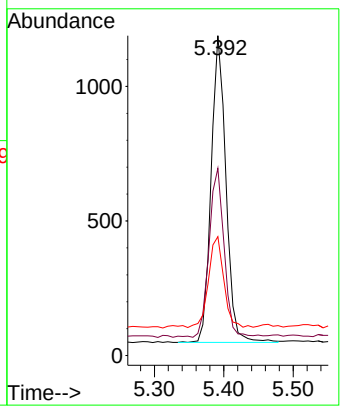


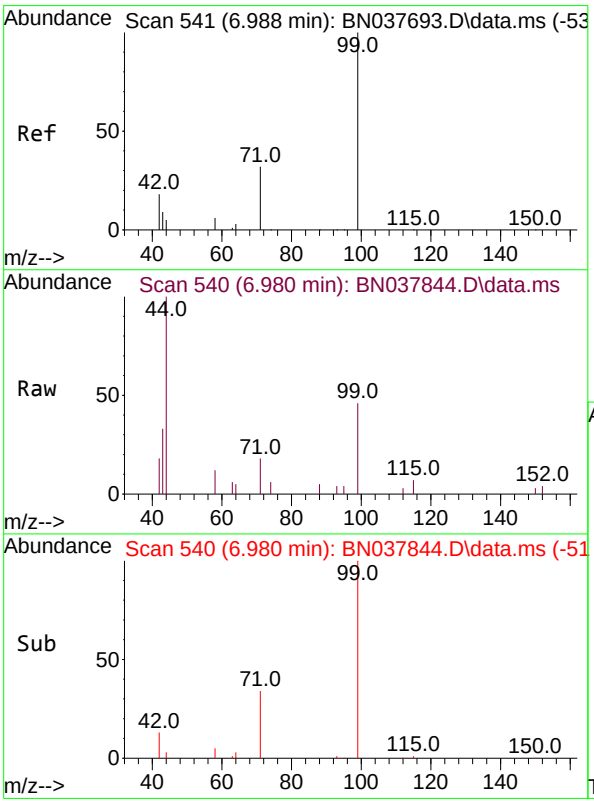
#4
2-Fluorophenol
Concen: 0.129 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

Tgt Ion:112 Resp: 1684

Ion	Ratio	Lower	Upper
112	100		
64	56.5	44.9	67.3
63	31.1	24.7	37.1

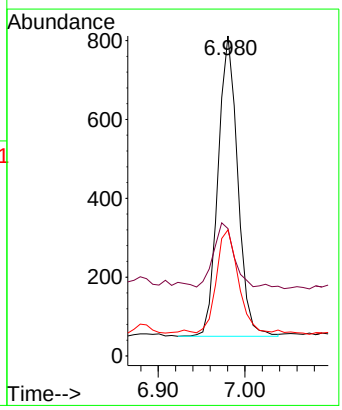


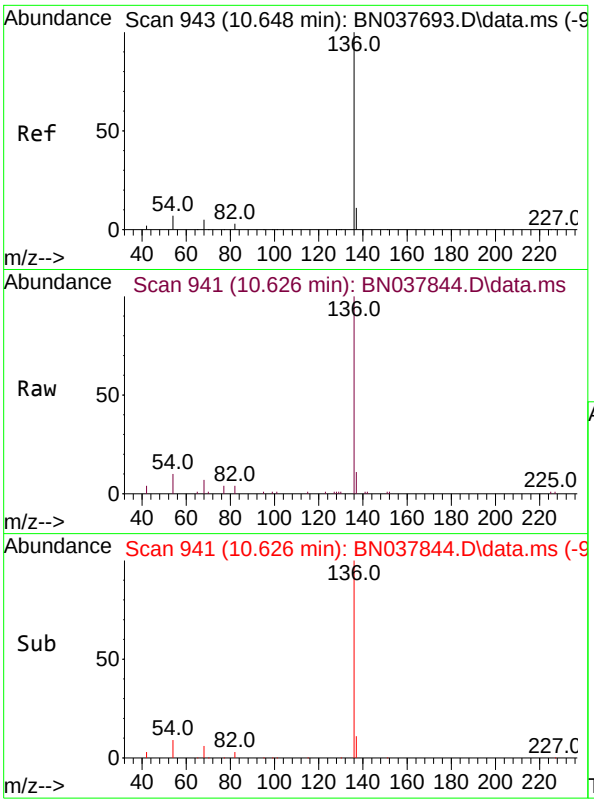


#5
Phenol-d6
Concen: 0.071 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion: 99 Resp: 1204

Ion	Ratio	Lower	Upper
99	100		
42	21.8	16.6	24.8
71	37.7	26.7	40.1



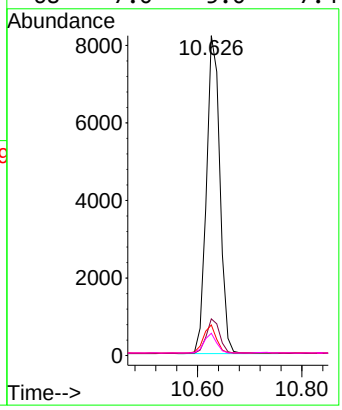


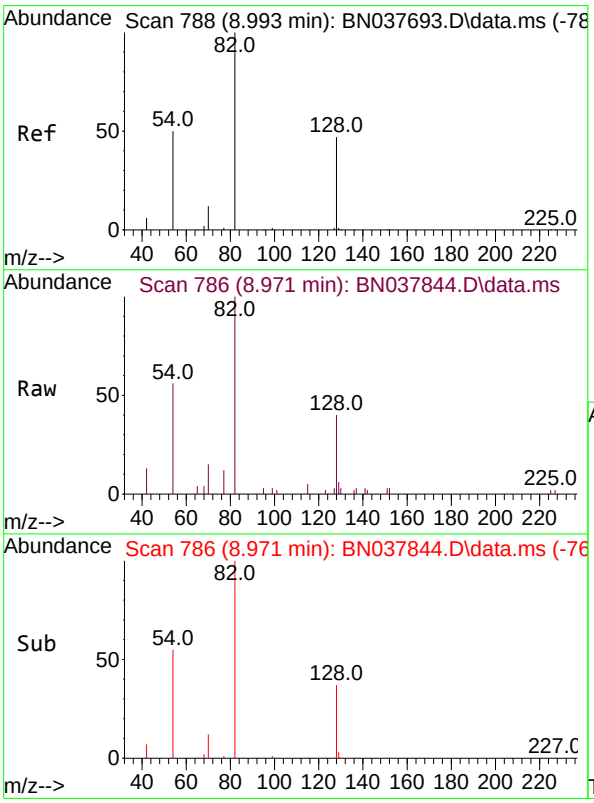
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

Tgt Ion:136 Resp: 14769

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	9.6	6.3	9.5#
68	7.0	5.0	7.4

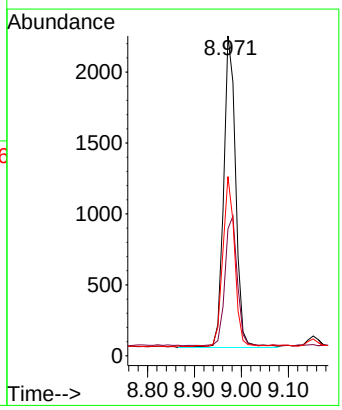


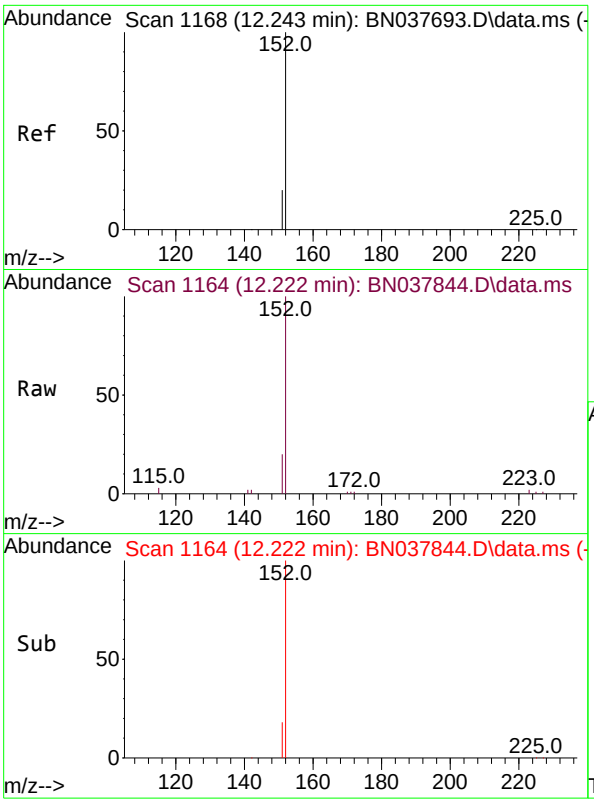


#8
Nitrobenzene-d5
Concen: 0.363 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.022 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion: 82 Resp: 3919

Ion	Ratio	Lower	Upper
82	100		
128	39.7	38.3	57.5
54	56.0	41.4	62.2



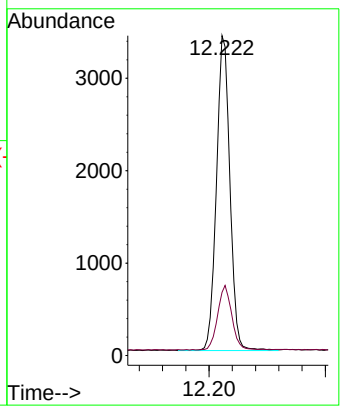


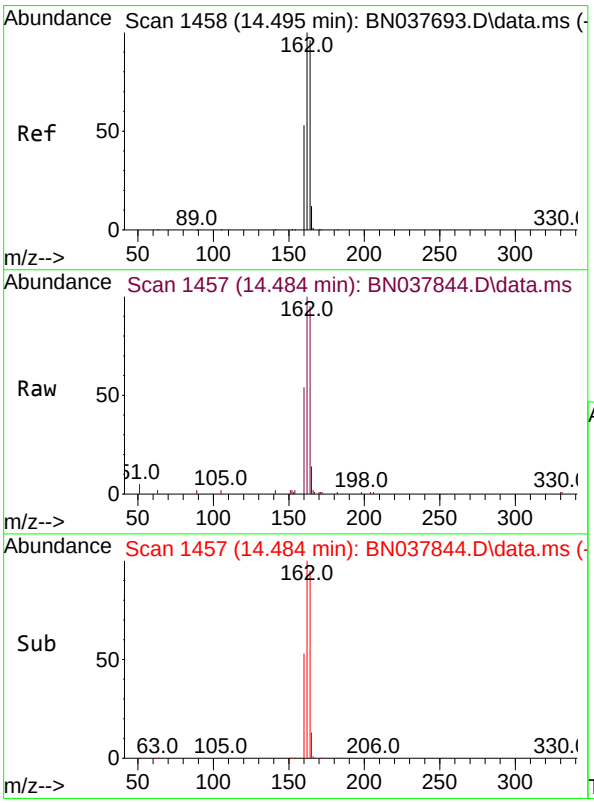
#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 12.222 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

Tgt Ion:152 Resp: 5475

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

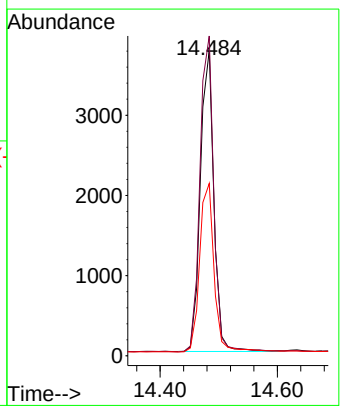


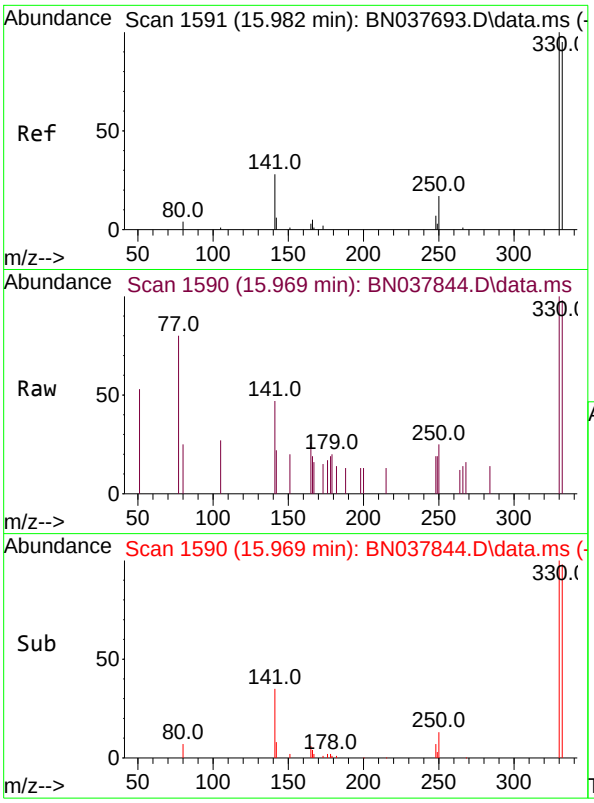


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion:164 Resp: 5979

Ion	Ratio	Lower	Upper
164	100		
162	104.9	83.1	124.7
160	56.5	44.3	66.5



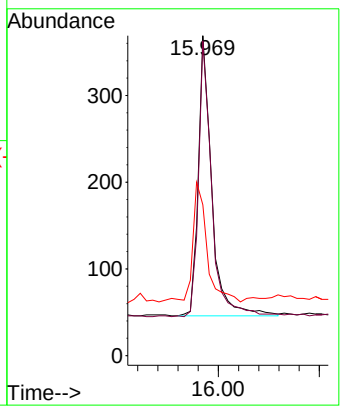


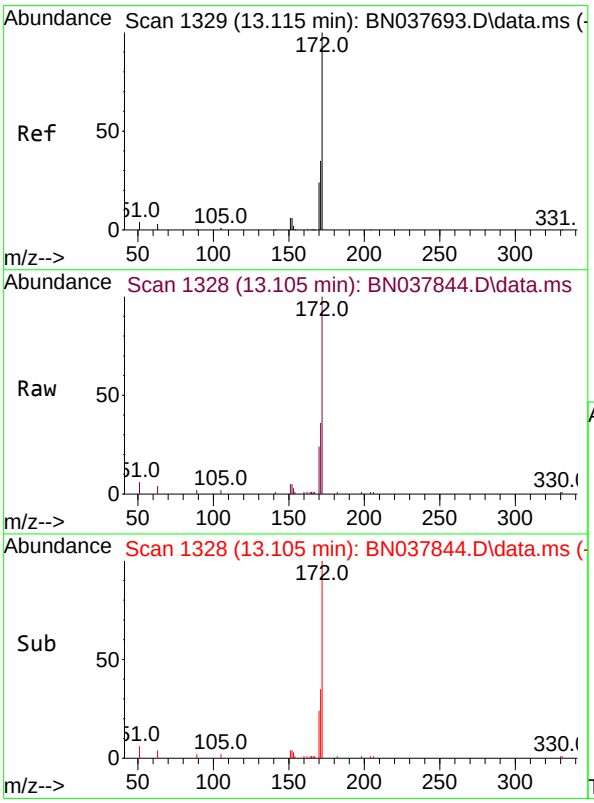
#14
2,4,6-Tribromophenol
Concen: 0.381 ng
RT: 15.969 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

Tgt Ion:330 Resp: 594

Ion	Ratio	Lower	Upper
330	100		
332	97.0	75.3	112.9
141	44.9	35.0	52.4

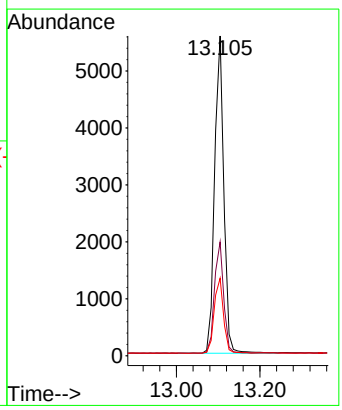


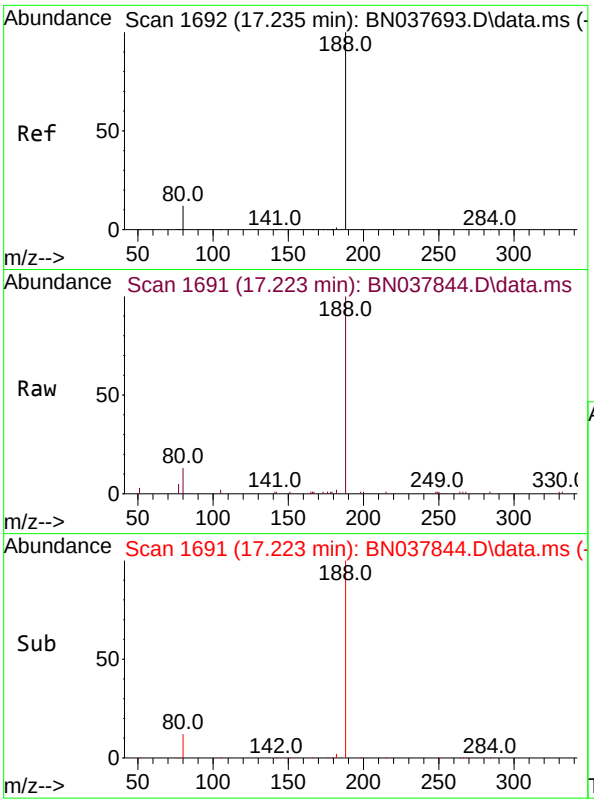


#15
2-Fluorobiphenyl
Concen: 0.333 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion:172 Resp: 8318

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	24.3	19.8	29.8



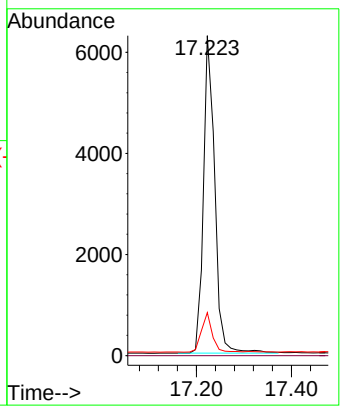


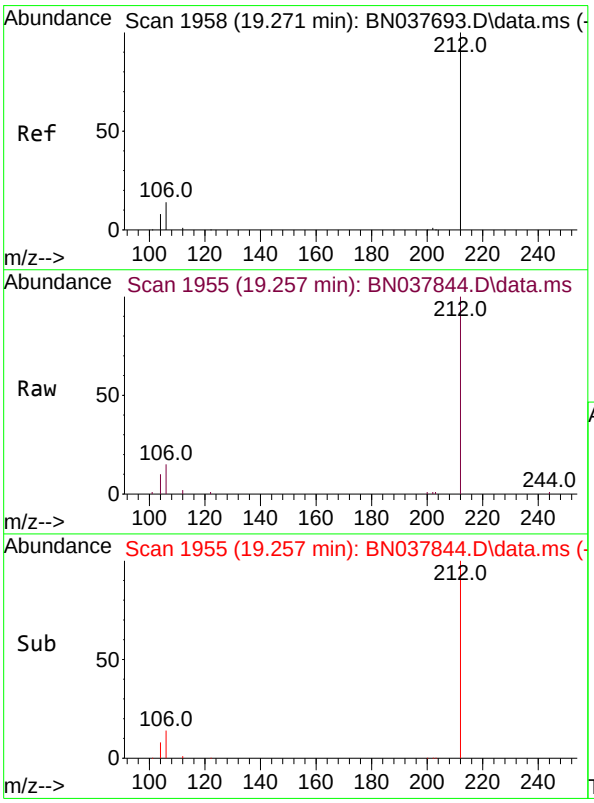
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

Tgt Ion:188 Resp: 10331

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	10.6	15.8

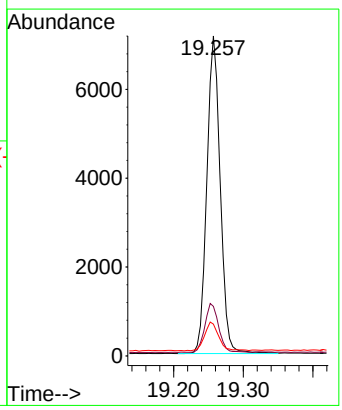


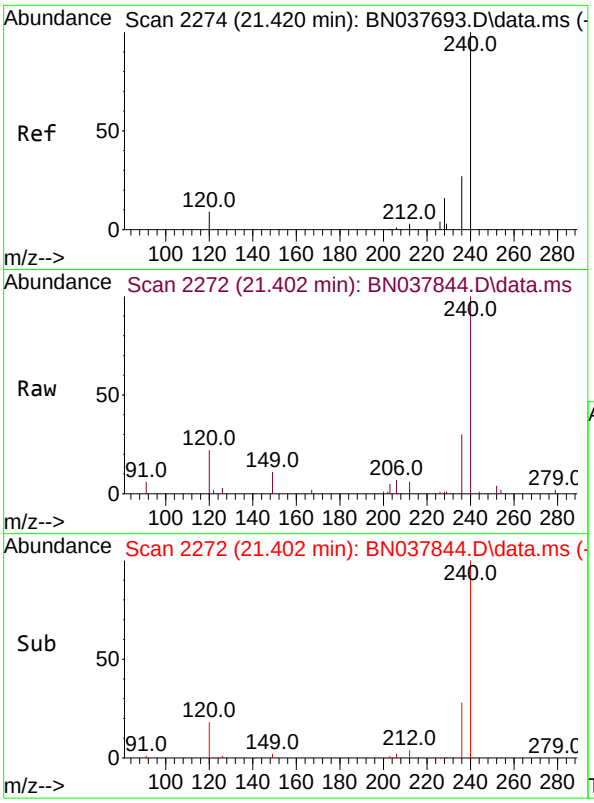


#27
Fluoranthene-d10
Concen: 0.369 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion:212 Resp: 9565

Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	9.5	6.9	10.3



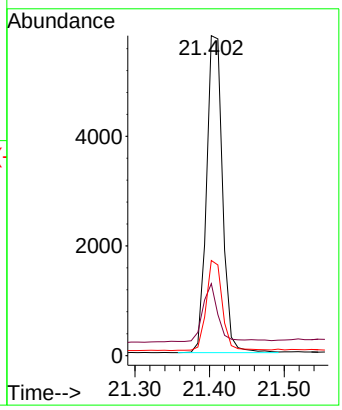


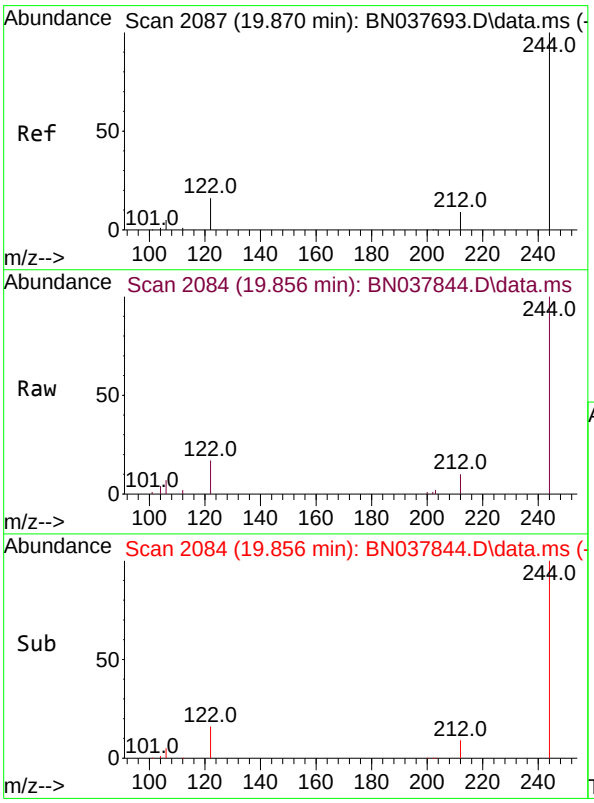
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

Tgt Ion:240 Resp: 8651

Ion	Ratio	Lower	Upper
240	100		
120	22.5	9.2	13.8#
236	29.7	22.6	33.8

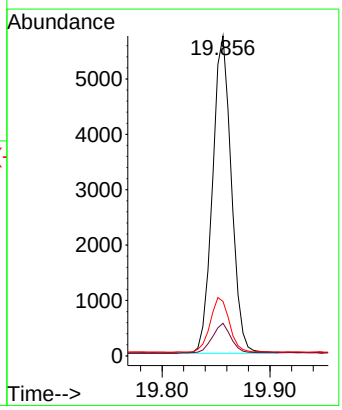


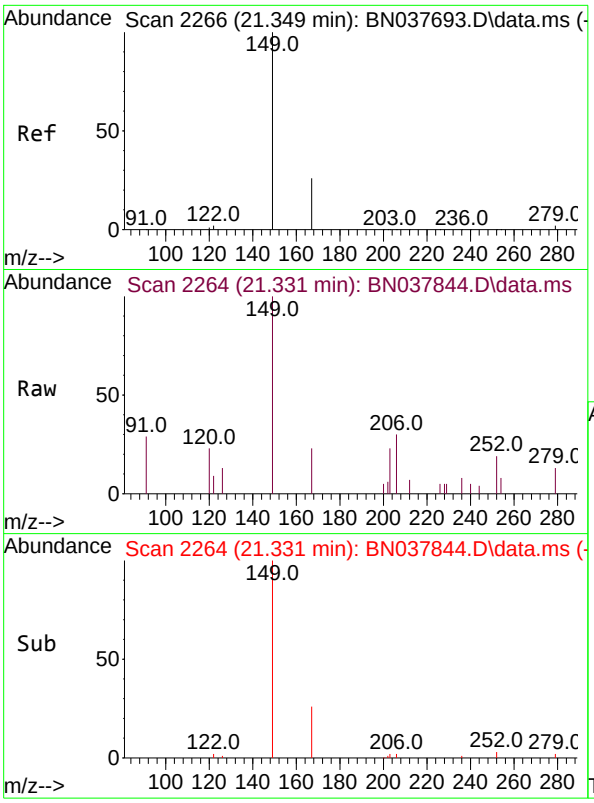


#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion:244 Resp: 6944

Ion	Ratio	Lower	Upper
244	100		
212	10.2	7.5	11.3
122	17.1	13.2	19.8



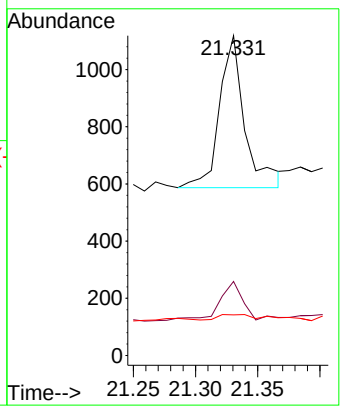


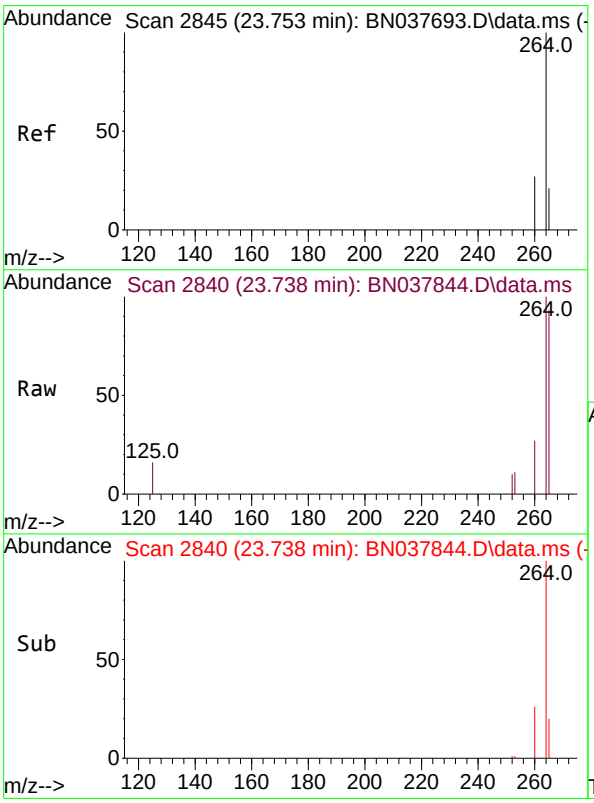
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.084 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

Tgt Ion:149 Resp: 753

Ion	Ratio	Lower	Upper
149	100		
167	24.6	20.8	31.2
279	8.4	3.3	4.9#

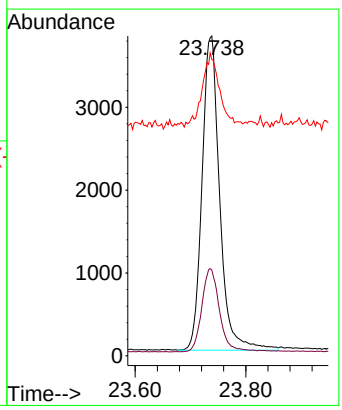




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion:264 Resp: 8407

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.8	32.8
265	92.7	39.4	59.2#



Raw Data: **BN037858.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP06-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-20DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037858.D	2	09/16/25 09:39	09/22/25 15:45	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.70	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		104%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5110	7.825				
1146-65-2	Naphthalene-d8	13200	10.626				
15067-26-2	Acenaphthene-d10	5440	14.473				
1517-22-2	Phenanthrene-d10	9910	17.223				
1719-03-5	Chrysene-d12	8650	21.402				
1520-96-3	Perylene-d12	8020	23.735				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037858.D
Acq On : 22 Sep 2025 15:45
Operator : RC/JU
Sample : Q3097-20DL 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

Quant Time: Sep 22 16:49:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

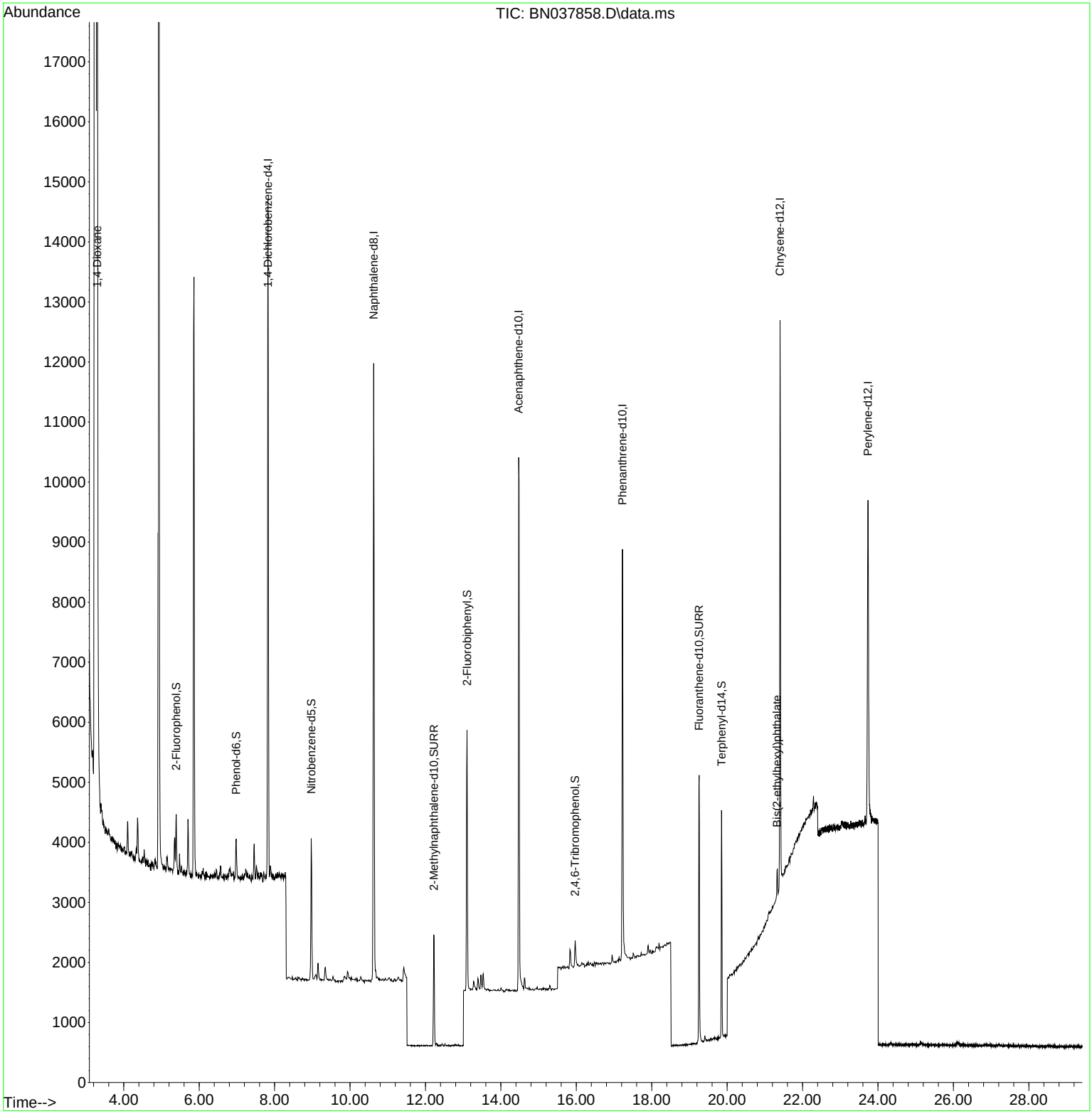
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5114	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	13234	0.400	ng	-0.02
13) Acenaphthene-d10	14.473	164	5436	0.400	ng	-0.02
19) Phenanthrene-d10	17.223	188	9913	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	8645	0.400	ng	#-0.02
35) Perylene-d12	23.735	264	8016	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	810	0.069	ng	0.00
5) Phenol-d6	6.980	99	617	0.041	ng	0.00
8) Nitrobenzene-d5	8.971	82	1888	0.195	ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	2540	0.145	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	303	0.214	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	4017	0.177	ng	-0.01
27) Fluoranthene-d10	19.257	212	4937	0.198	ng	-0.01
31) Terphenyl-d14	19.852	244	3674	0.209	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	20584	3.864	ng	97
34) Bis(2-ethylhexyl)phtha...	21.322	149	604	0.068	ng	# 90

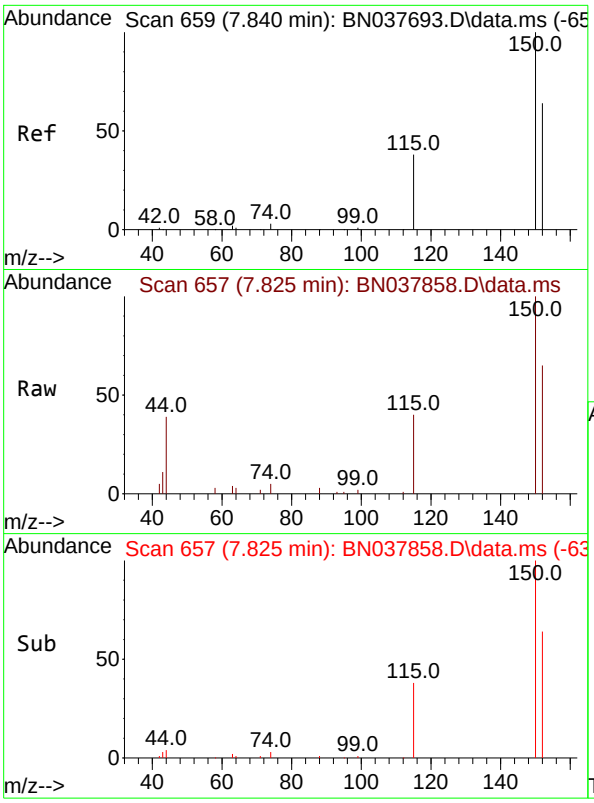
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037858.D
Acq On : 22 Sep 2025 15:45
Operator : RC/JU
Sample : Q3097-20DL 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

Quant Time: Sep 22 16:49:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



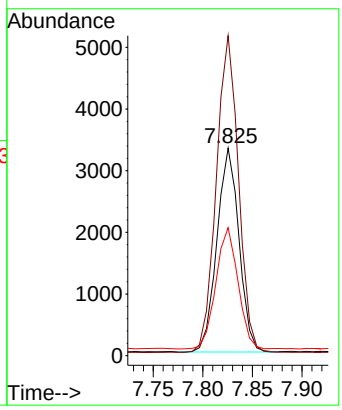


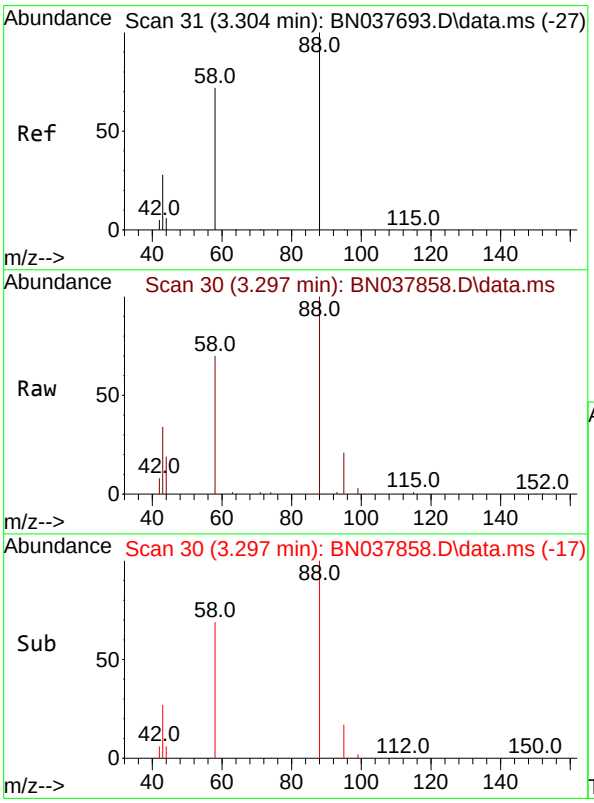
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

Tgt Ion:152 Resp: 5114

Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.5	186.7
115	61.6	49.2	73.8

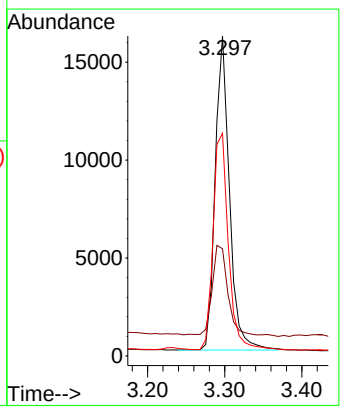


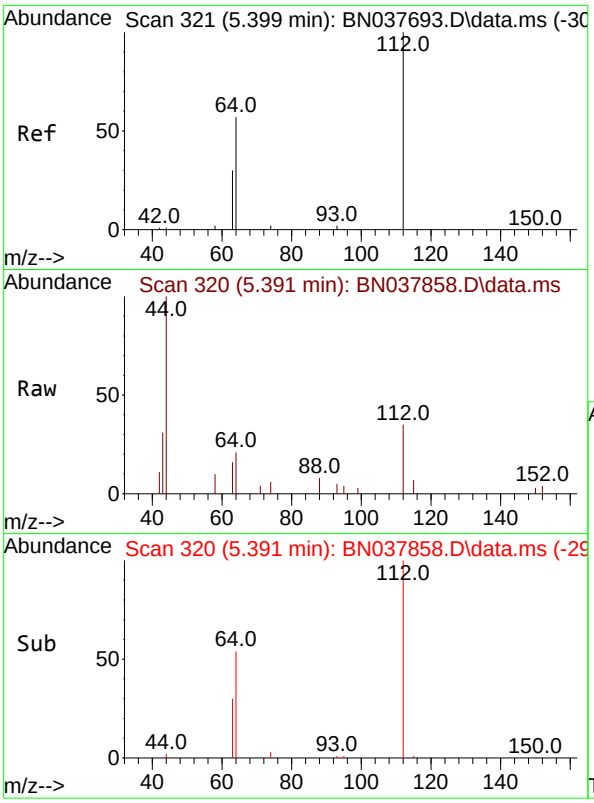


#2
1,4-Dioxane
Concen: 3.864 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Tgt Ion: 88 Resp: 20584

Ion	Ratio	Lower	Upper
88	100		
43	32.5	26.8	40.2
58	73.7	61.9	92.9



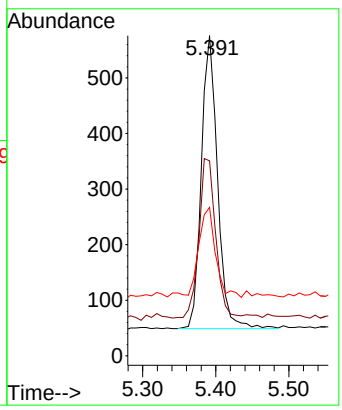


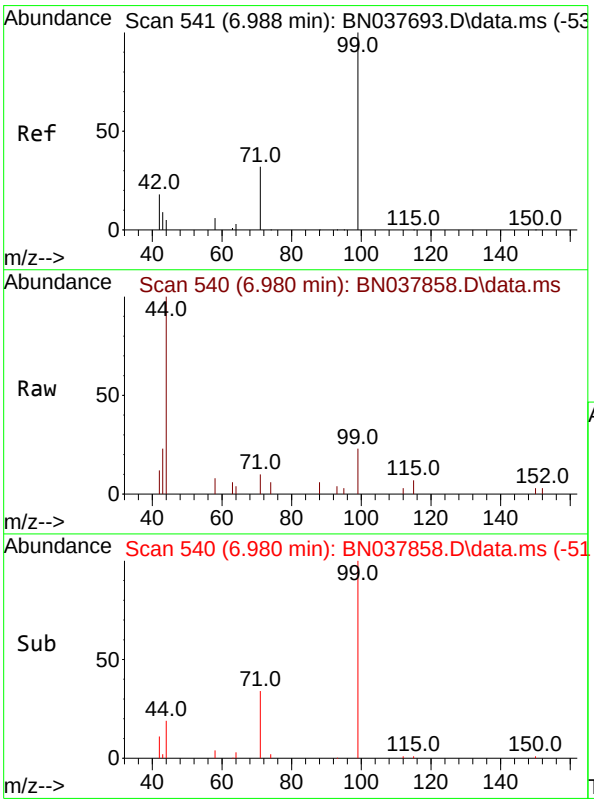
#4
2-Fluorophenol
Concen: 0.069 ng
RT: 5.391 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

Tgt Ion:112 Resp: 810

Ion	Ratio	Lower	Upper
112	100		
64	56.8	44.9	67.3
63	33.0	24.7	37.1

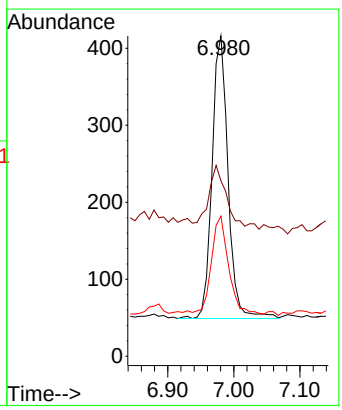


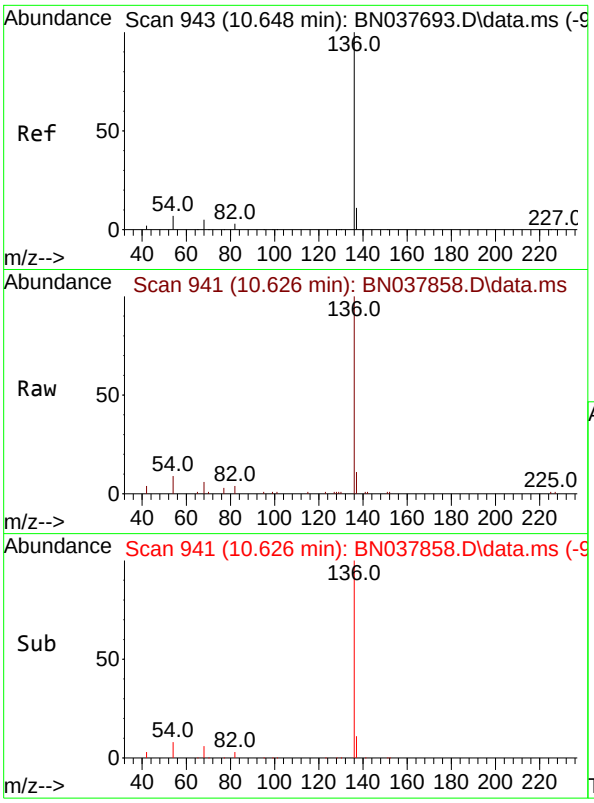


#5
Phenol-d6
Concen: 0.041 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Tgt Ion: 99 Resp: 617

Ion	Ratio	Lower	Upper
99	100		
42	26.3	16.6	24.8#
71	37.4	26.7	40.1



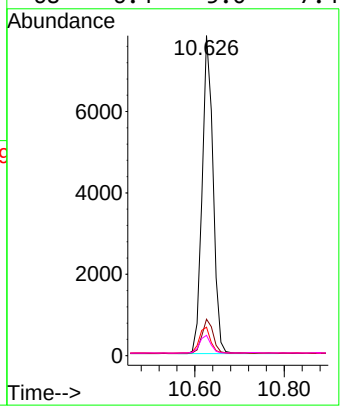


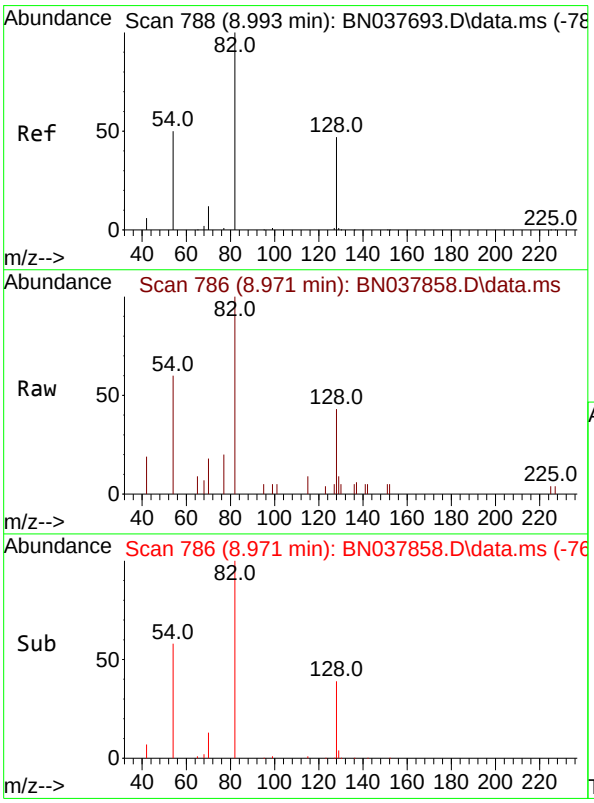
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.022 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

Tgt Ion:136 Resp: 13234

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	8.9	6.3	9.5
68	6.4	5.0	7.4

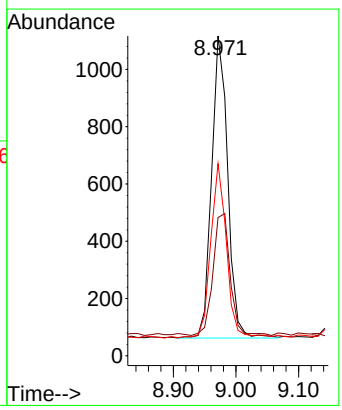


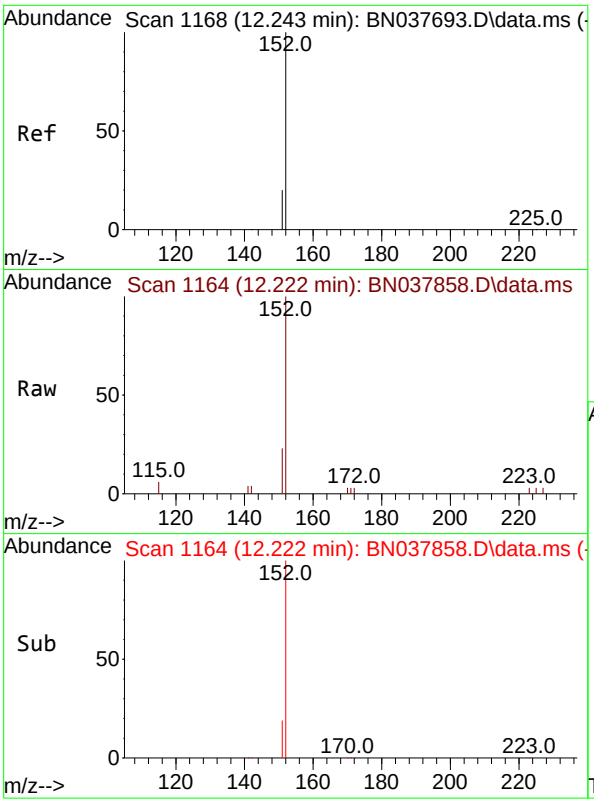


#8
Nitrobenzene-d5
Concen: 0.195 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.022 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Tgt Ion: 82 Resp: 1888

Ion	Ratio	Lower	Upper
82	100		
128	43.2	38.3	57.5
54	60.1	41.4	62.2



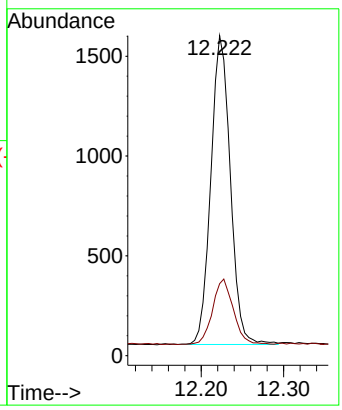


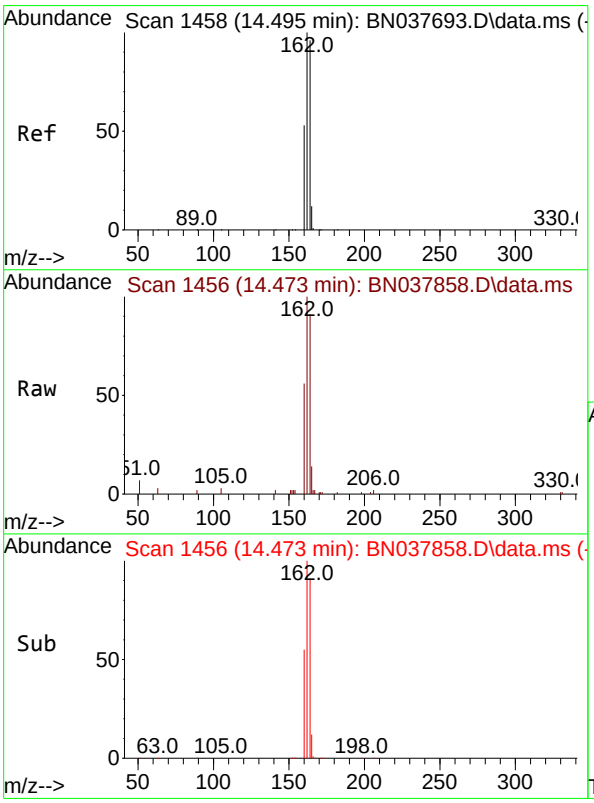
#11
2-Methylnaphthalene-d10
Concen: 0.145 ng
RT: 12.222 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

Tgt Ion:152 Resp: 2540

Ion	Ratio	Lower	Upper
152	100		
151	22.6	17.0	25.6

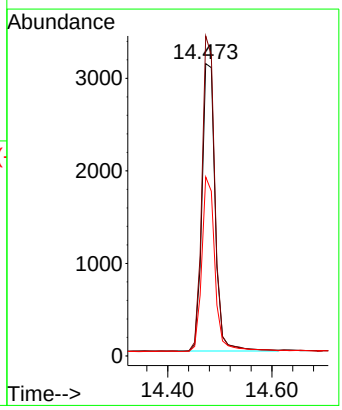


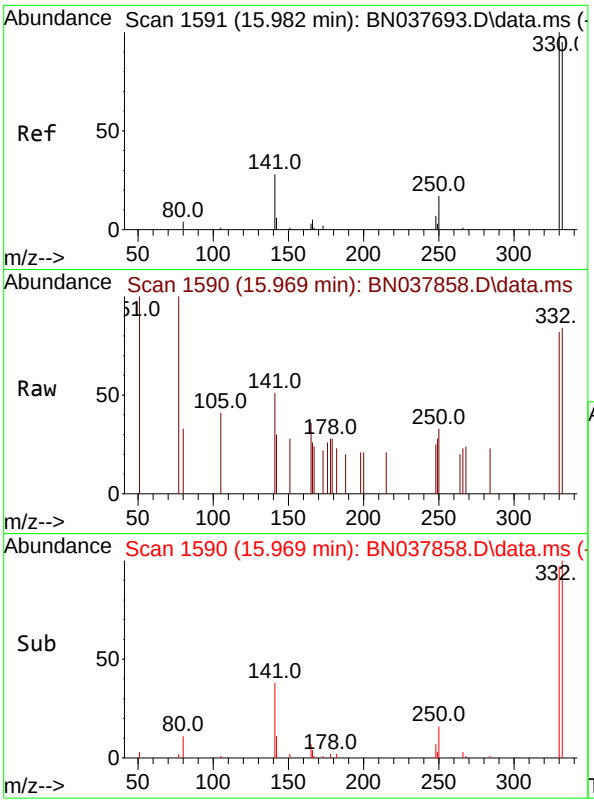


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.022 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Tgt Ion:164 Resp: 5436

Ion	Ratio	Lower	Upper
164	100		
162	109.5	83.1	124.7
160	61.3	44.3	66.5



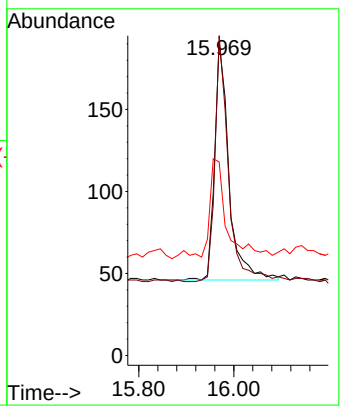


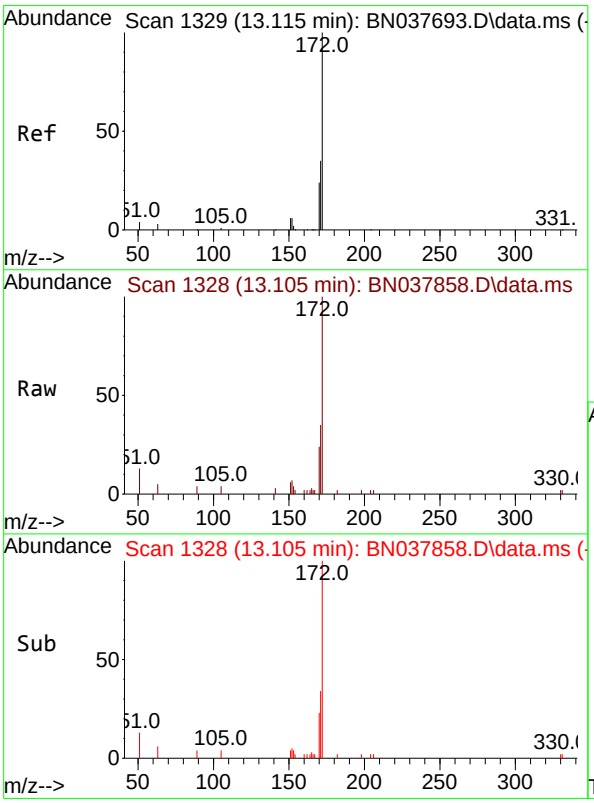
#14
2,4,6-Tribromophenol
Concen: 0.214 ng
RT: 15.969 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

Tgt Ion:330 Resp: 303

Ion	Ratio	Lower	Upper
330	100		
332	97.7	75.3	112.9
141	45.9	35.0	52.4

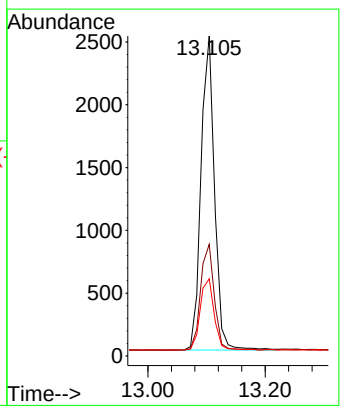


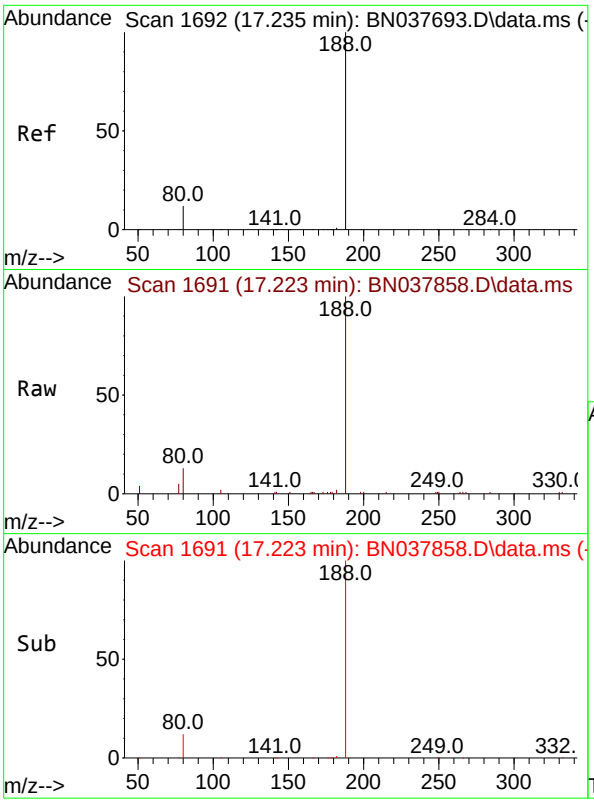


#15
2-Fluorobiphenyl
Concen: 0.177 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Tgt Ion:172 Resp: 4017

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.6	43.0
170	24.1	19.8	29.8



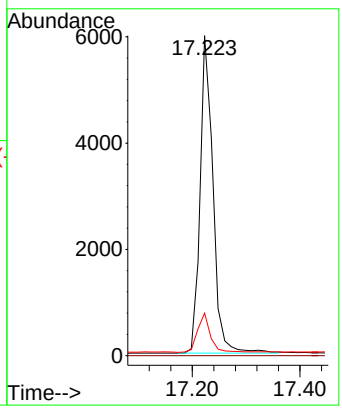


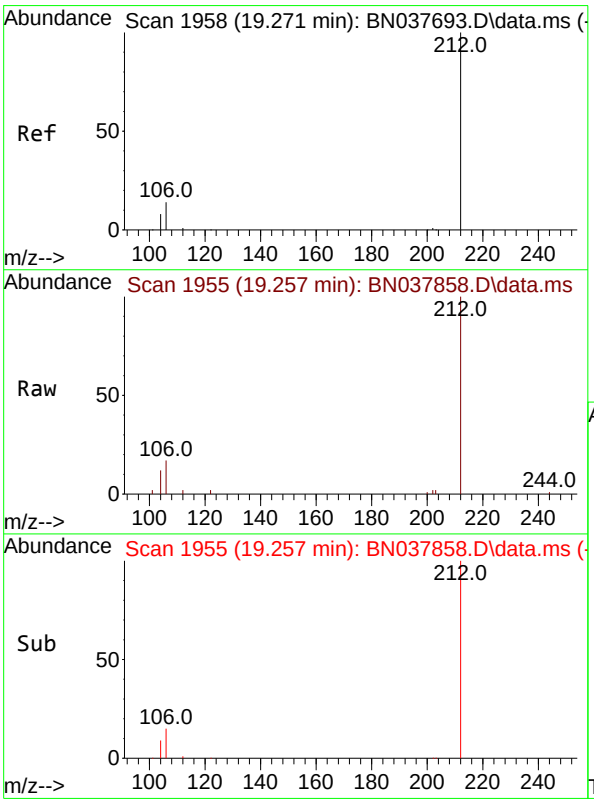
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

Tgt Ion:188 Resp: 9913

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.3	10.6	15.8

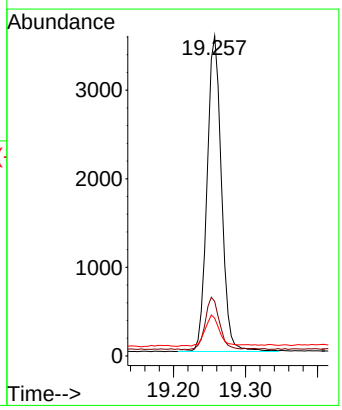


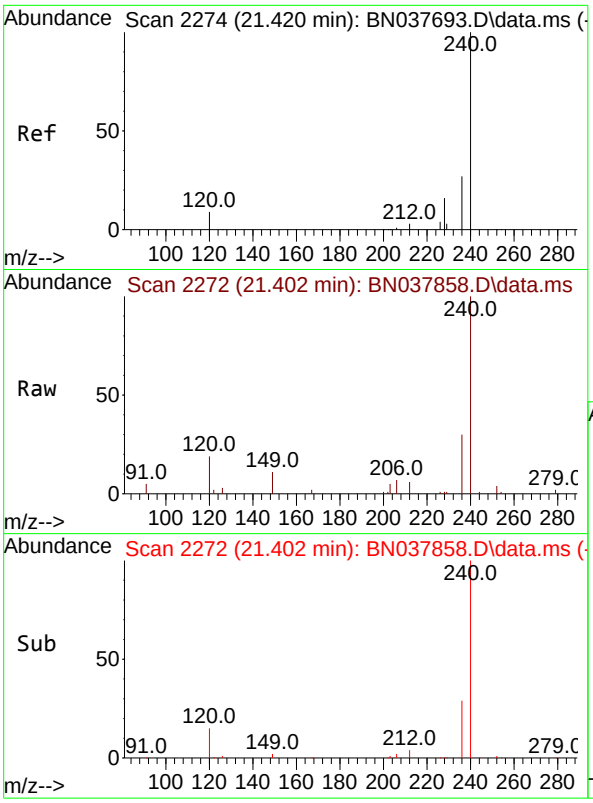


#27
Fluoranthene-d10
Concen: 0.198 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Tgt Ion:212 Resp: 4937

Ion	Ratio	Lower	Upper
212	100		
106	16.3	12.2	18.2
104	10.0	6.9	10.3



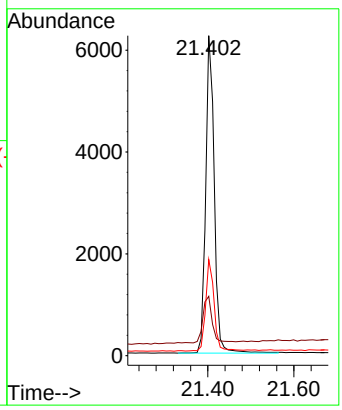


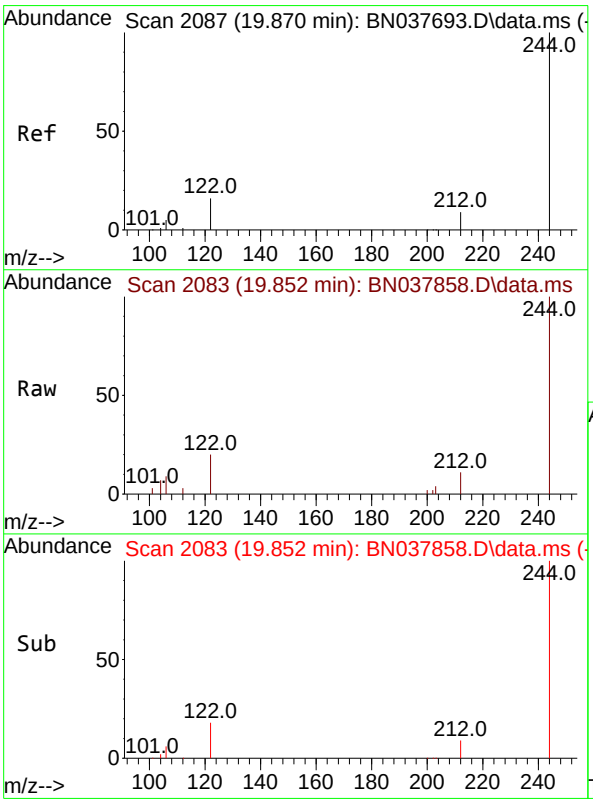
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

Tgt Ion:240 Resp: 8645

Ion	Ratio	Lower	Upper
240	100		
120	18.5	9.2	13.8#
236	30.0	22.6	33.8

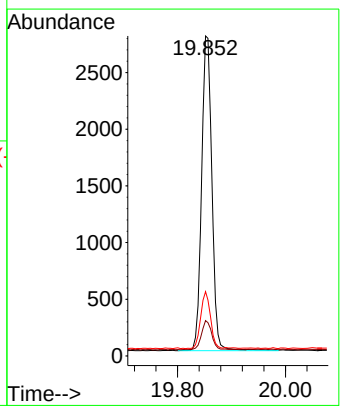


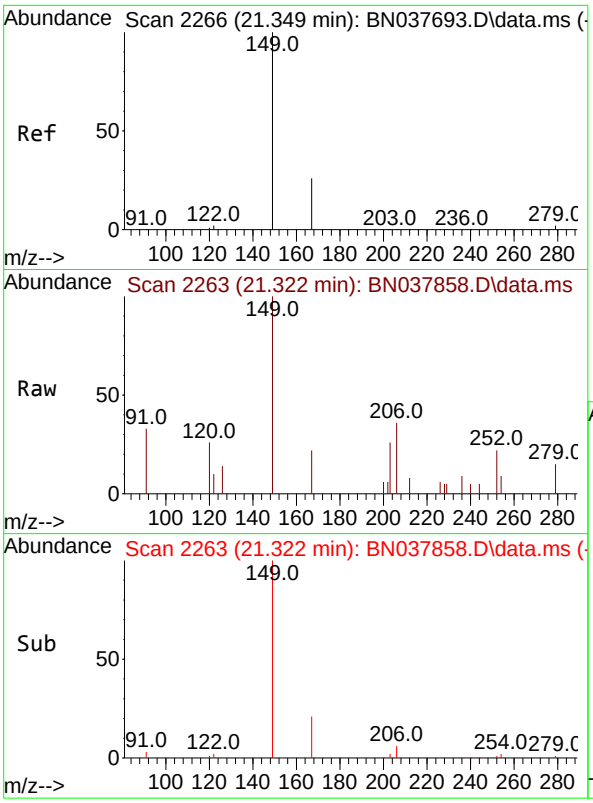


#31
Terphenyl-d14
Concen: 0.209 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.019 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Tgt Ion:244 Resp: 3674

Ion	Ratio	Lower	Upper
244	100		
212	11.1	7.5	11.3
122	20.1	13.2	19.8#



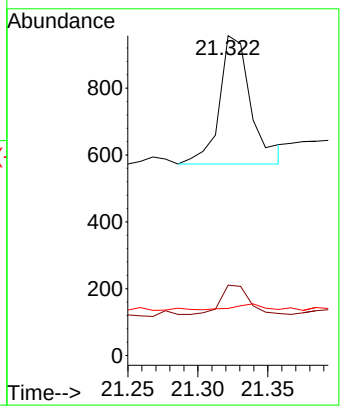


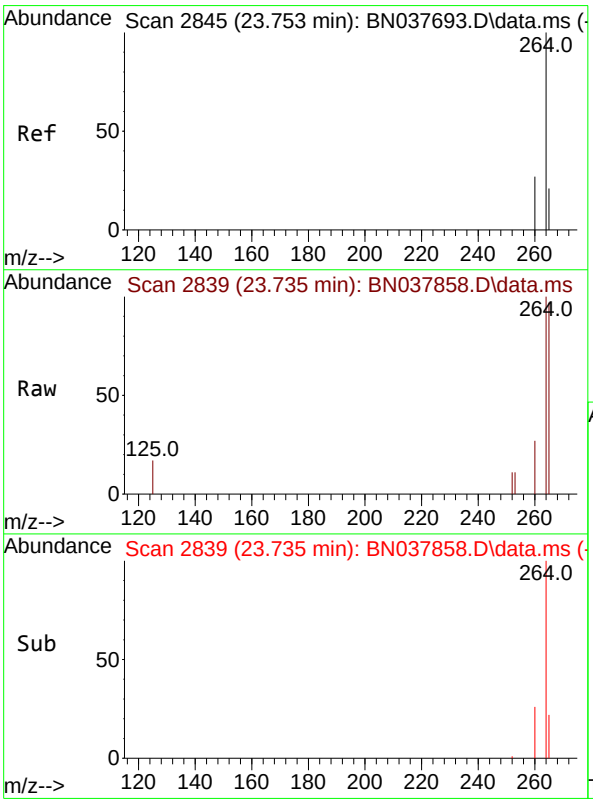
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.068 ng
RT: 21.322 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

Tgt Ion:149 Resp: 604

Ion	Ratio	Lower	Upper
149	100		
167	20.4	20.8	31.2#
279	3.8	3.3	4.9

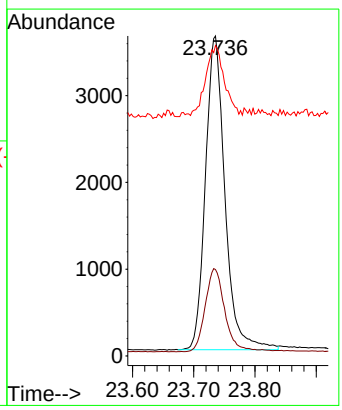




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.735 min Scan# 2839
Delta R.T. -0.018 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Tgt Ion:264 Resp: 8016

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.8	32.8
265	97.0	39.4	59.2#



Raw Data: **BN037819.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D2-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-21	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037819.D	1	09/16/25 09:39	09/19/25 17:58	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4690	7.833				
1146-65-2	Naphthalene-d8	12200	10.637				
15067-26-2	Acenaphthene-d10	5200	14.484				
1517-22-2	Phenanthrene-d10	9590	17.235				
1719-03-5	Chrysene-d12	7870	21.411				
1520-96-3	Perylene-d12	7670	23.744				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037819.D
Acq On : 19 Sep 2025 17:58
Operator : RC/JU
Sample : Q3097-21
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

Quant Time: Sep 19 18:26:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

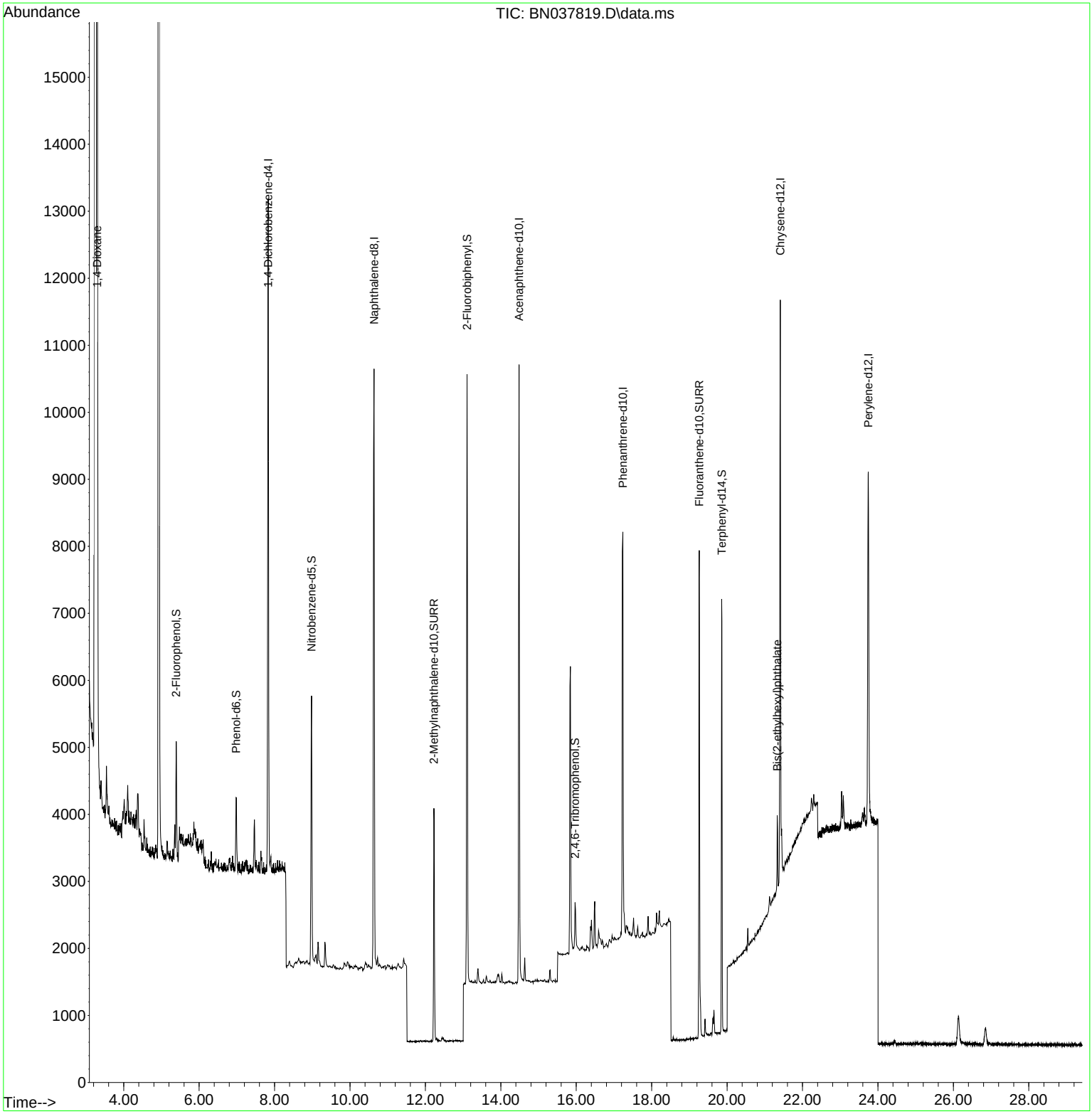
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	4690	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	12247	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	5203	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	9585	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	7866	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	7673	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1407	0.131	ng	0.00
5) Phenol-d6	6.981	99	1025	0.073	ng	0.00
8) Nitrobenzene-d5	8.982	82	3219	0.359	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	4735	0.292	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	492	0.363	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	7423	0.341	ng	-0.01
27) Fluoranthene-d10	19.262	212	8095	0.336	ng	0.00
31) Terphenyl-d14	19.857	244	6189	0.388	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	15832	3.241	ng	97
34) Bis(2-ethylhexyl)phtha...	21.331	149	1054	0.130	ng	# 98

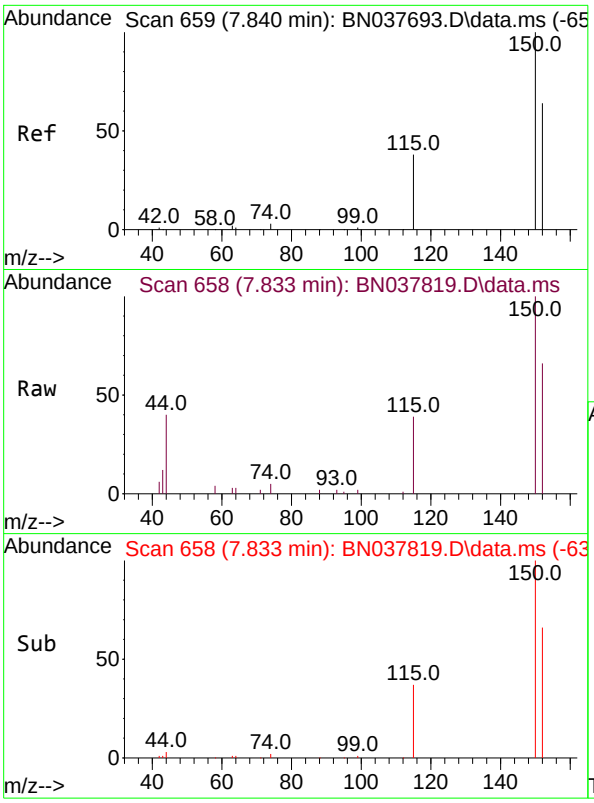
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037819.D
Acq On : 19 Sep 2025 17:58
Operator : RC/JU
Sample : Q3097-21
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

Quant Time: Sep 19 18:26:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



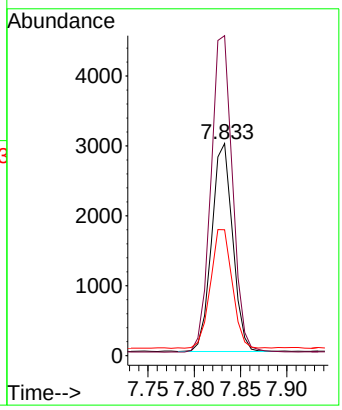


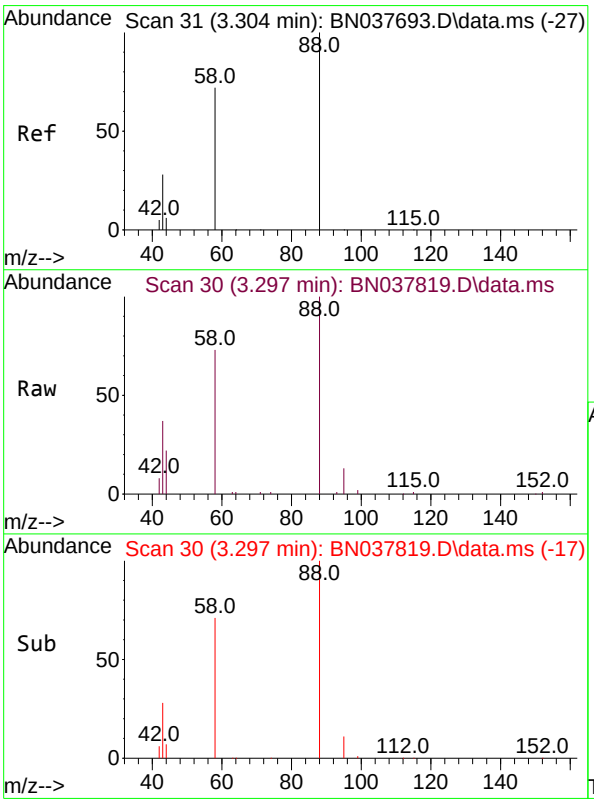
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

Tgt Ion:152 Resp: 4690

Ion	Ratio	Lower	Upper
152	100		
150	150.8	124.5	186.7
115	59.3	49.2	73.8

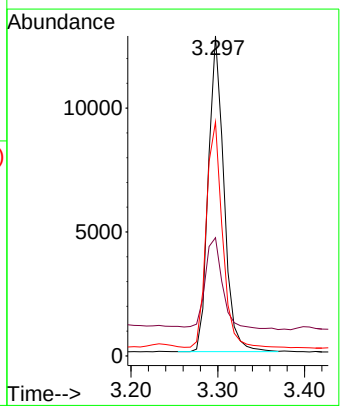


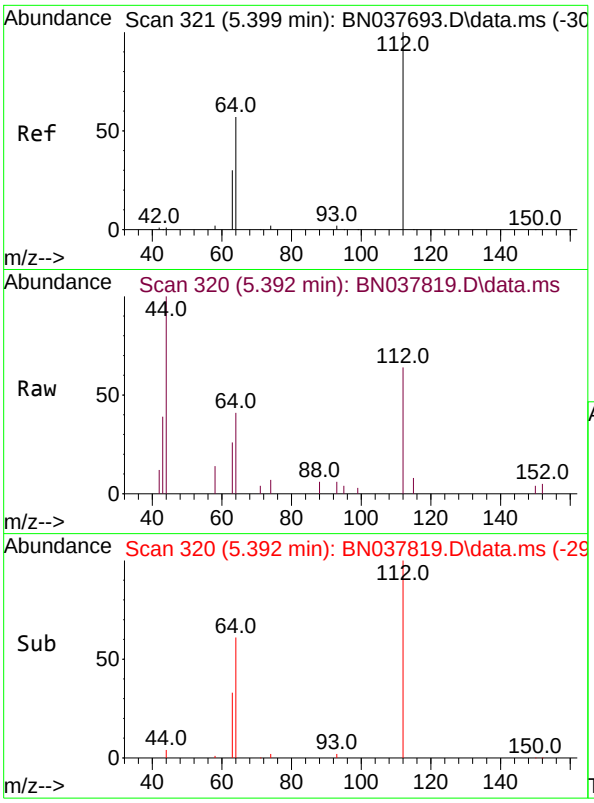


#2
1,4-Dioxane
Concen: 3.241 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Tgt Ion: 88 Resp: 15832

Ion	Ratio	Lower	Upper
88	100		
43	32.9	26.8	40.2
58	73.5	61.9	92.9



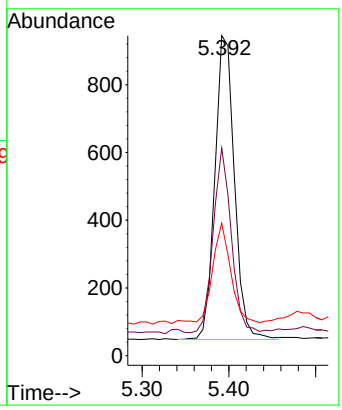


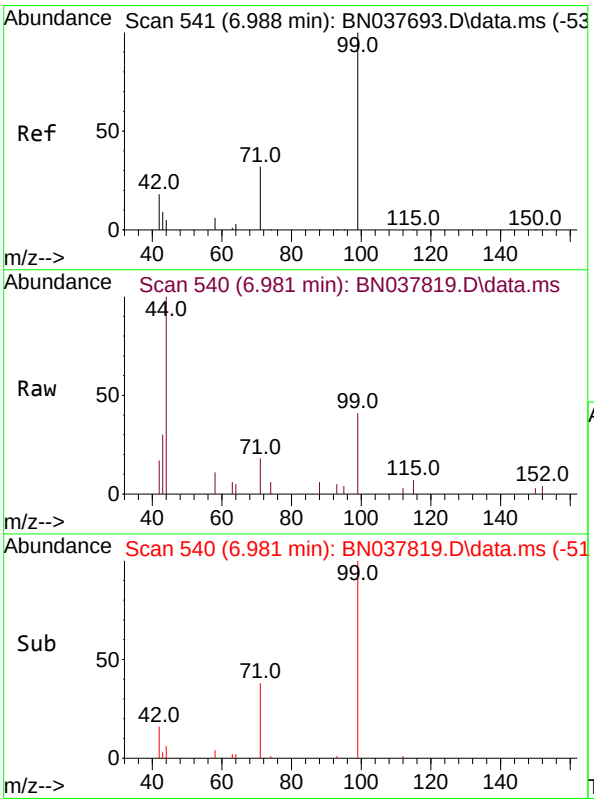
#4
2-Fluorophenol
Concen: 0.131 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

Tgt Ion:112 Resp: 1407

Ion	Ratio	Lower	Upper
112	100		
64	56.4	44.9	67.3
63	31.4	24.7	37.1

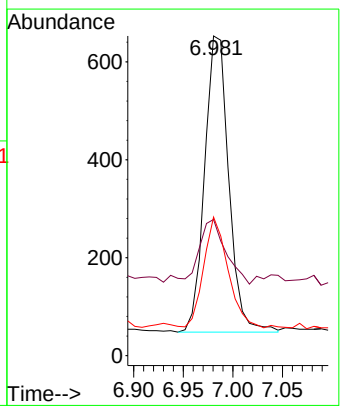


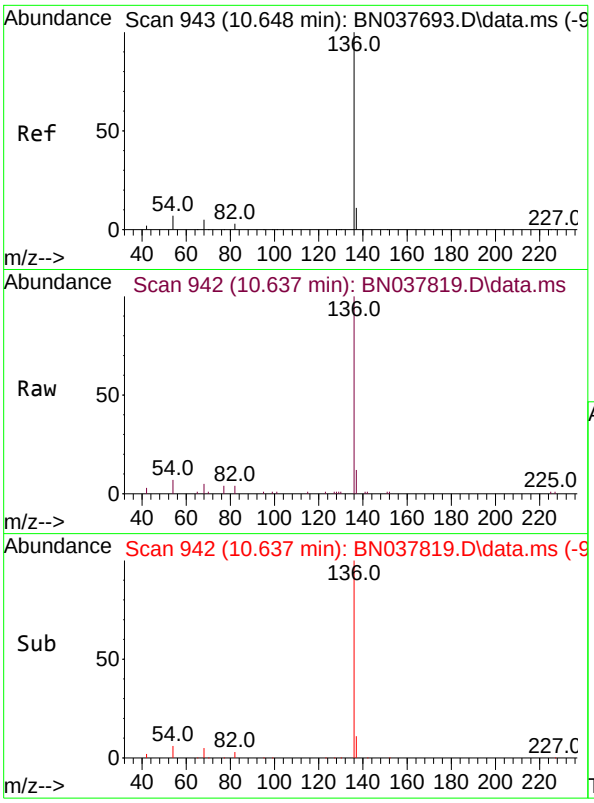


#5
Phenol-d6
Concen: 0.073 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Tgt Ion: 99 Resp: 1025

Ion	Ratio	Lower	Upper
99	100		
42	25.1	16.6	24.8#
71	37.9	26.7	40.1



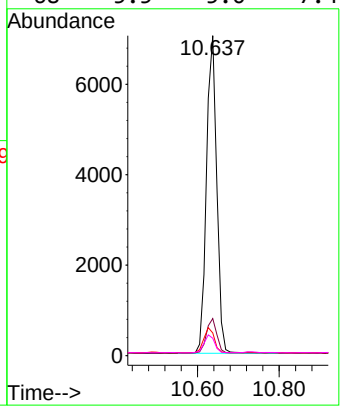


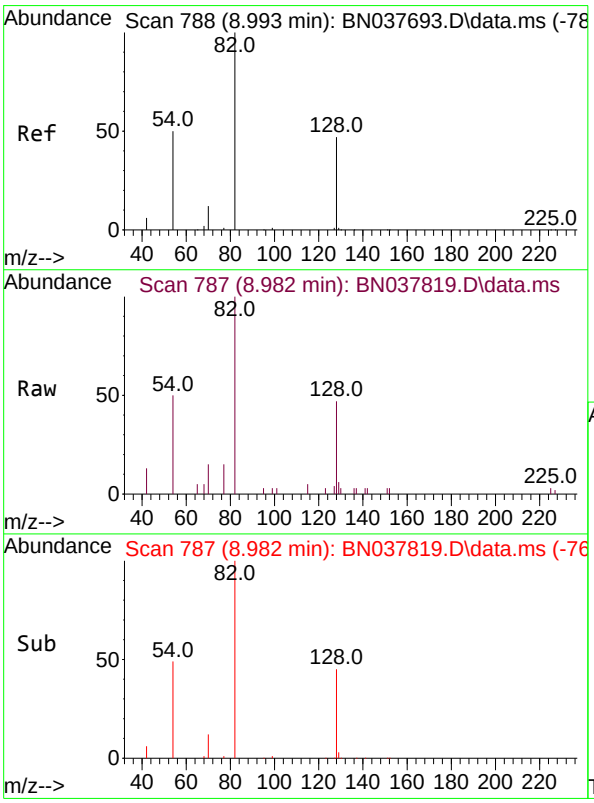
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

Tgt Ion:136 Resp: 12247

Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	7.1	6.3	9.5
68	5.5	5.0	7.4

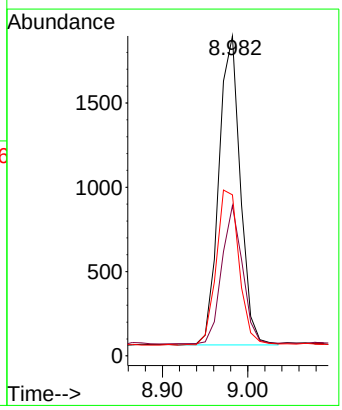


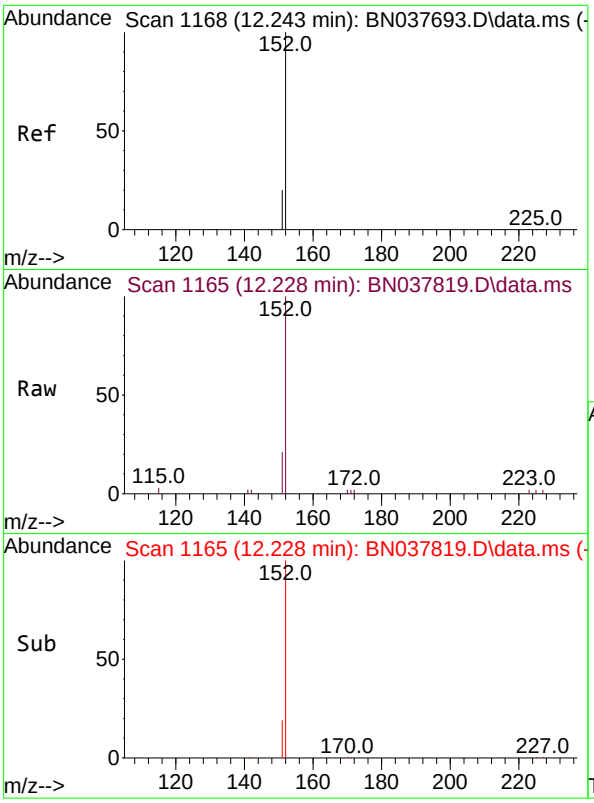


#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Tgt Ion: 82 Resp: 3219

Ion	Ratio	Lower	Upper
82	100		
128	47.0	38.3	57.5
54	50.3	41.4	62.2



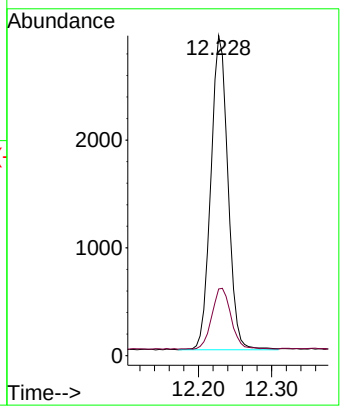


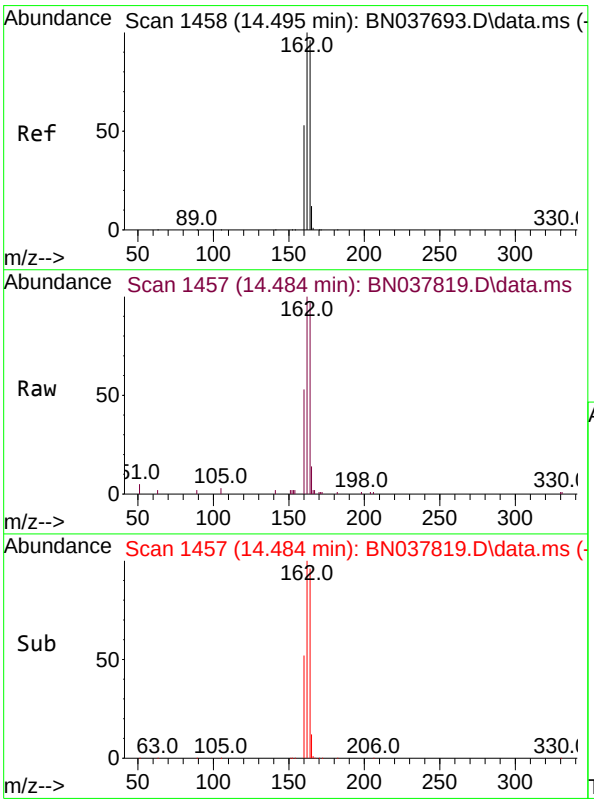
#11
2-Methylnaphthalene-d10
Concen: 0.292 ng
RT: 12.228 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

Tgt Ion:152 Resp: 4735

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.0	25.6

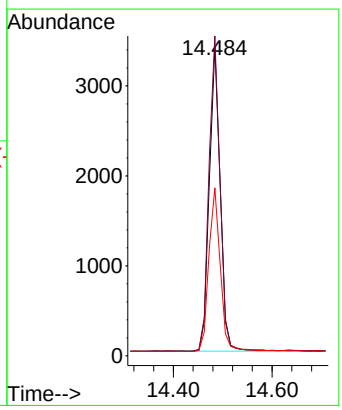


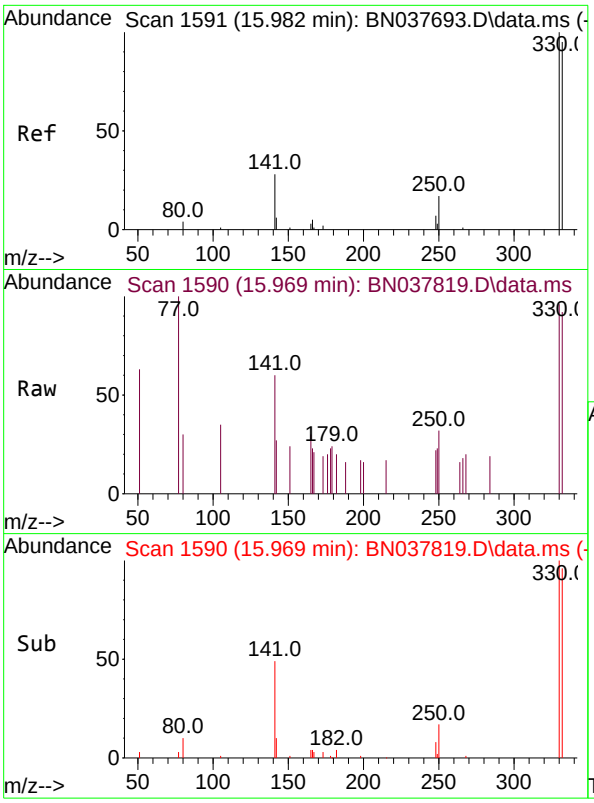


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Tgt Ion:164 Resp: 5203

Ion	Ratio	Lower	Upper
164	100		
162	103.5	83.1	124.7
160	54.3	44.3	66.5



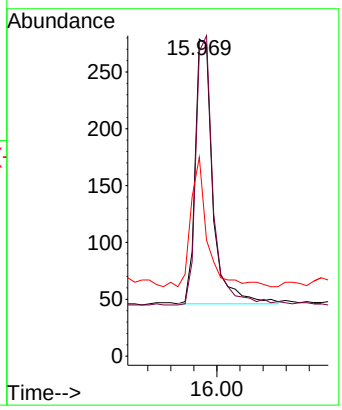


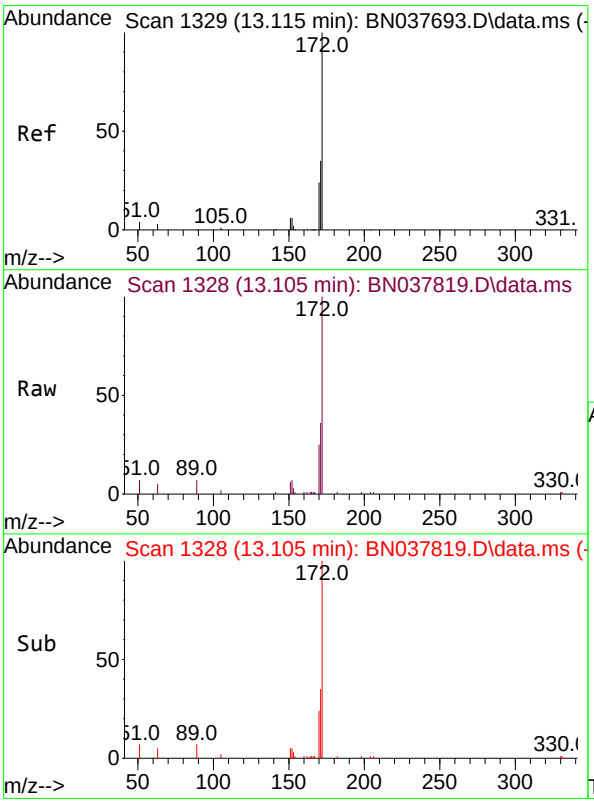
#14
2,4,6-Tribromophenol
Concen: 0.363 ng
RT: 15.969 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

Tgt Ion:330 Resp: 492

Ion	Ratio	Lower	Upper
330	100		
332	99.6	75.3	112.9
141	47.2	35.0	52.4

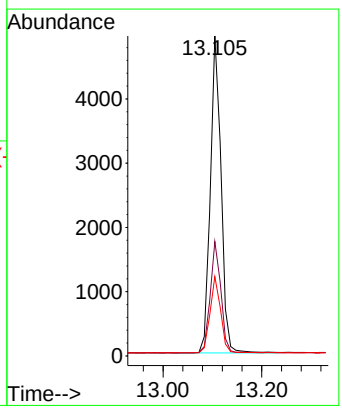


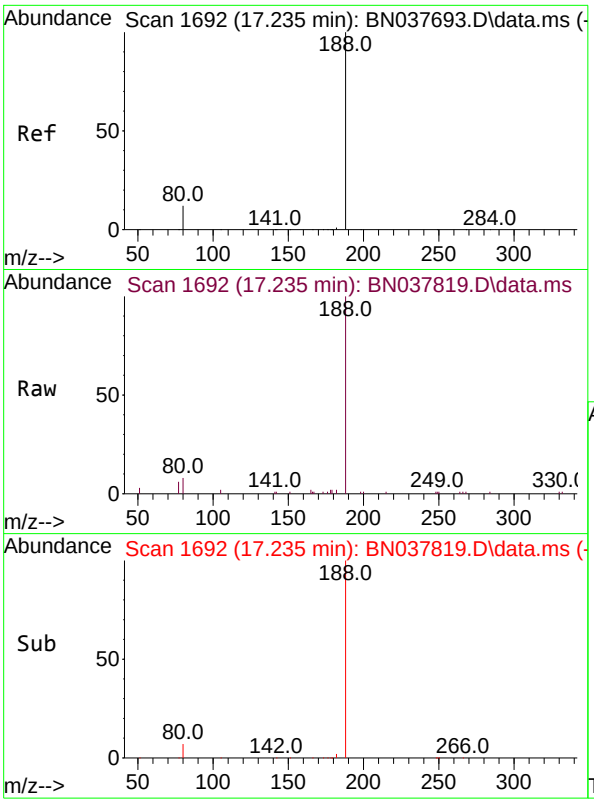


#15
2-Fluorobiphenyl
Concen: 0.341 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Tgt Ion:172 Resp: 7423

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	24.8	19.8	29.8



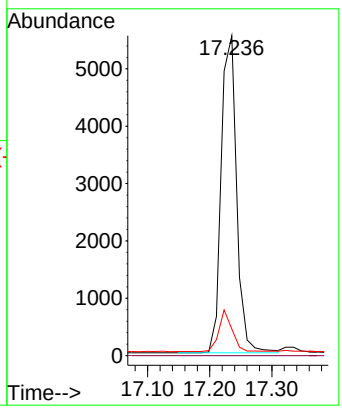


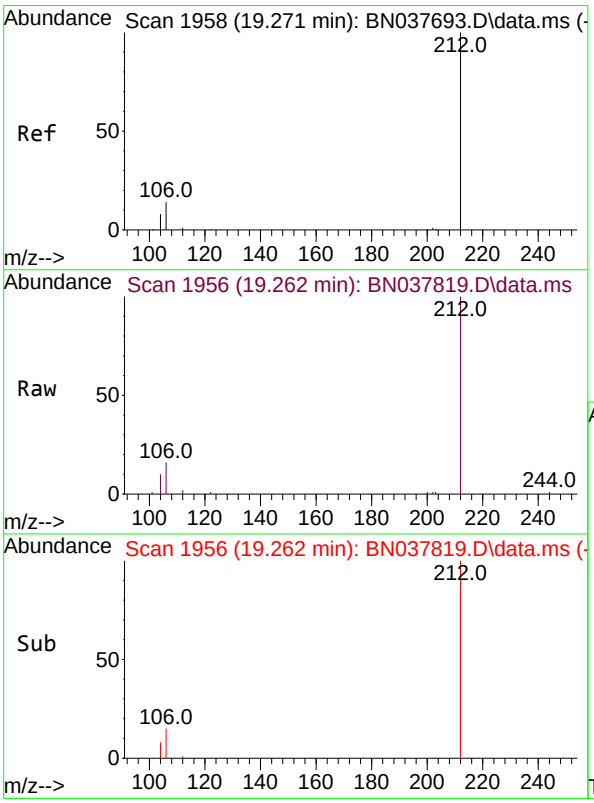
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

Tgt Ion:188 Resp: 9585

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.3	10.6	15.8#

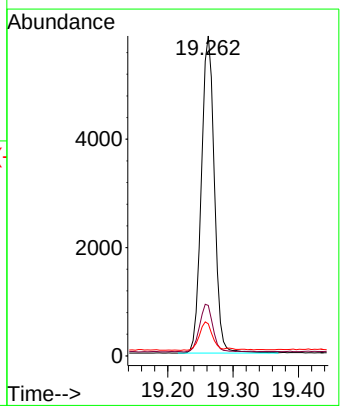


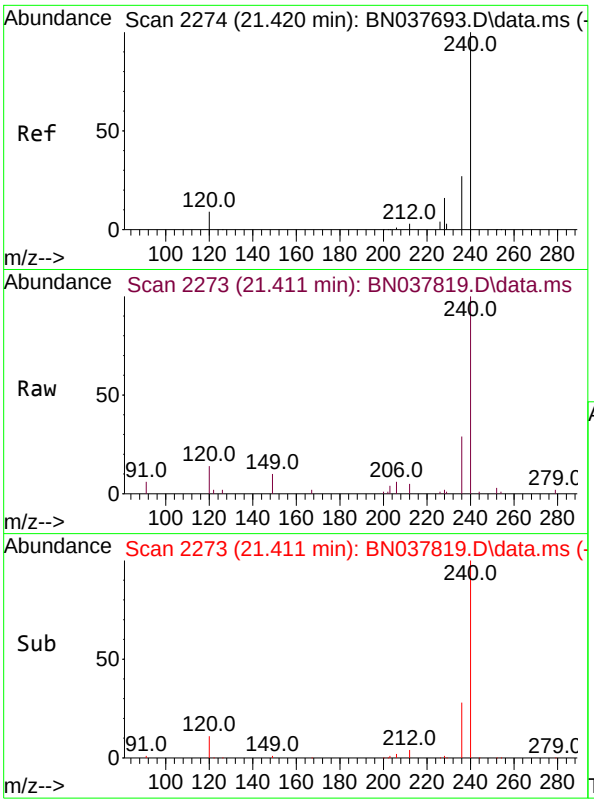


#27
Fluoranthene-d10
Concen: 0.336 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Tgt Ion:212 Resp: 8095

Ion	Ratio	Lower	Upper
212	100		
106	15.2	12.2	18.2
104	8.8	6.9	10.3



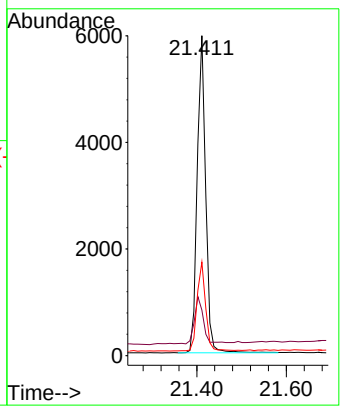


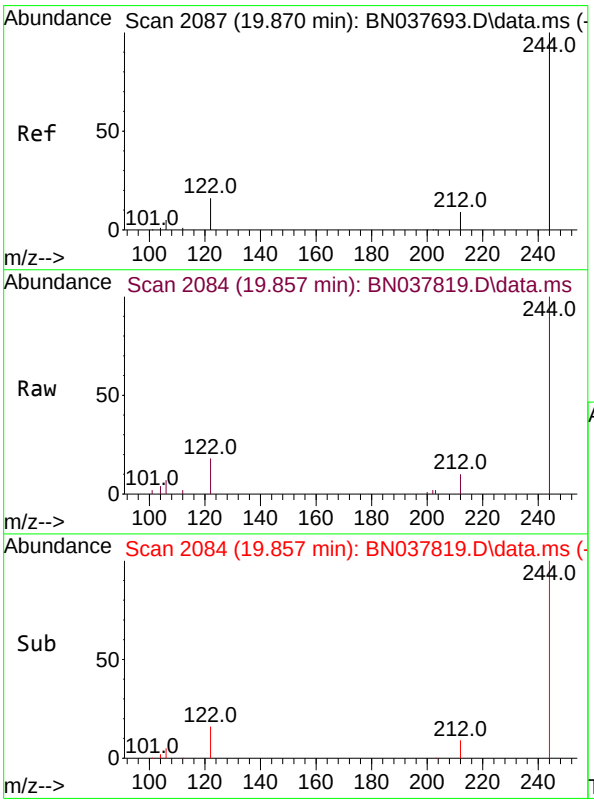
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

Tgt Ion:240 Resp: 7866

Ion	Ratio	Lower	Upper
240	100		
120	14.2	9.2	13.8#
236	29.2	22.6	33.8

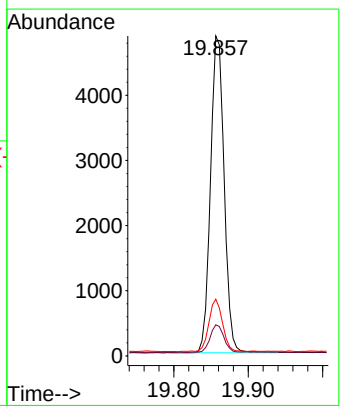


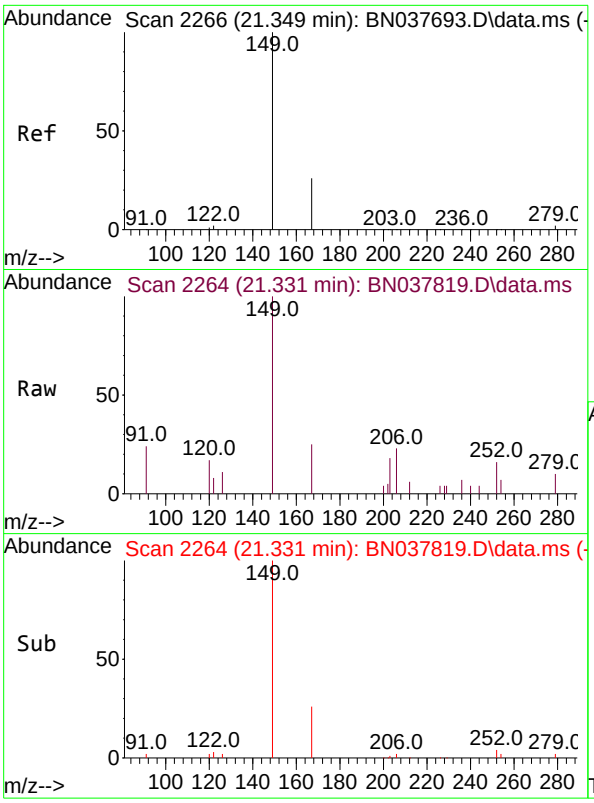


#31
Terphenyl-d14
Concen: 0.388 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Tgt Ion:244 Resp: 6189

Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.5	11.3
122	17.7	13.2	19.8



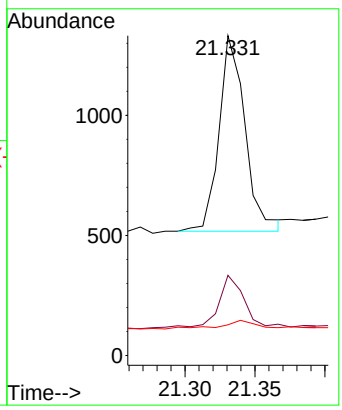


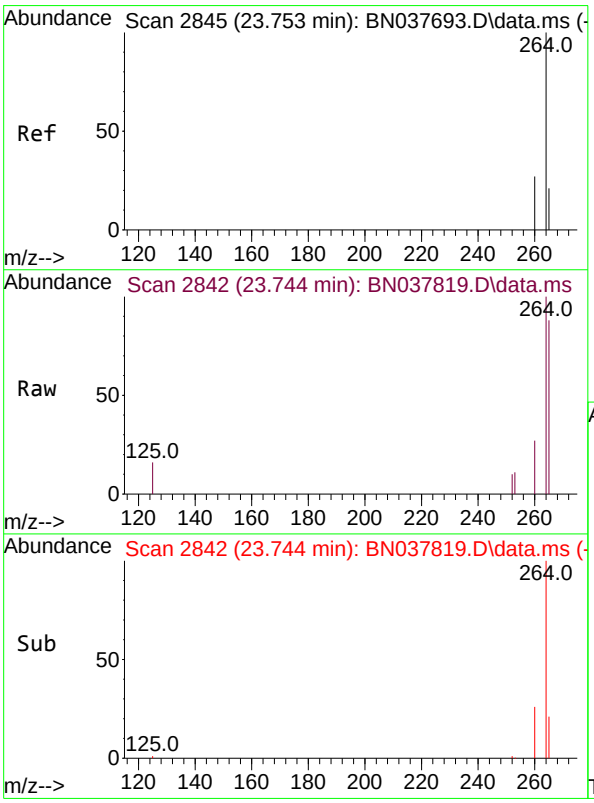
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.130 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

Tgt Ion:149 Resp: 1054

Ion	Ratio	Lower	Upper
149	100		
167	25.3	20.8	31.2
279	5.8	3.3	4.9#

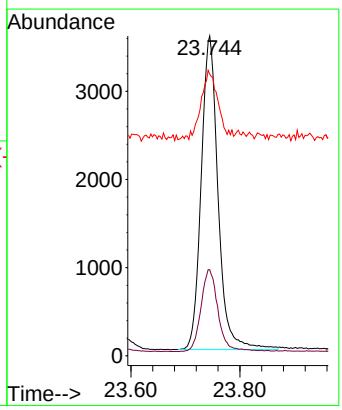




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Tgt Ion:264 Resp: 7673

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.8	32.8
265	88.1	39.4	59.2#



Raw Data: **BN037820.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D1-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-22	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037820.D	1	09/16/25 09:39	09/19/25 18:34	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		78%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		103%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4620	7.833				
1146-65-2	Naphthalene-d8	12200	10.637				
15067-26-2	Acenaphthene-d10	5320	14.484				
1517-22-2	Phenanthrene-d10	10200	17.235				
1719-03-5	Chrysene-d12	9410	21.411				
1520-96-3	Perylene-d12	8970	23.744				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037820.D
Acq On : 19 Sep 2025 18:34
Operator : RC/JU
Sample : Q3097-22
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

Quant Time: Sep 19 23:55:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

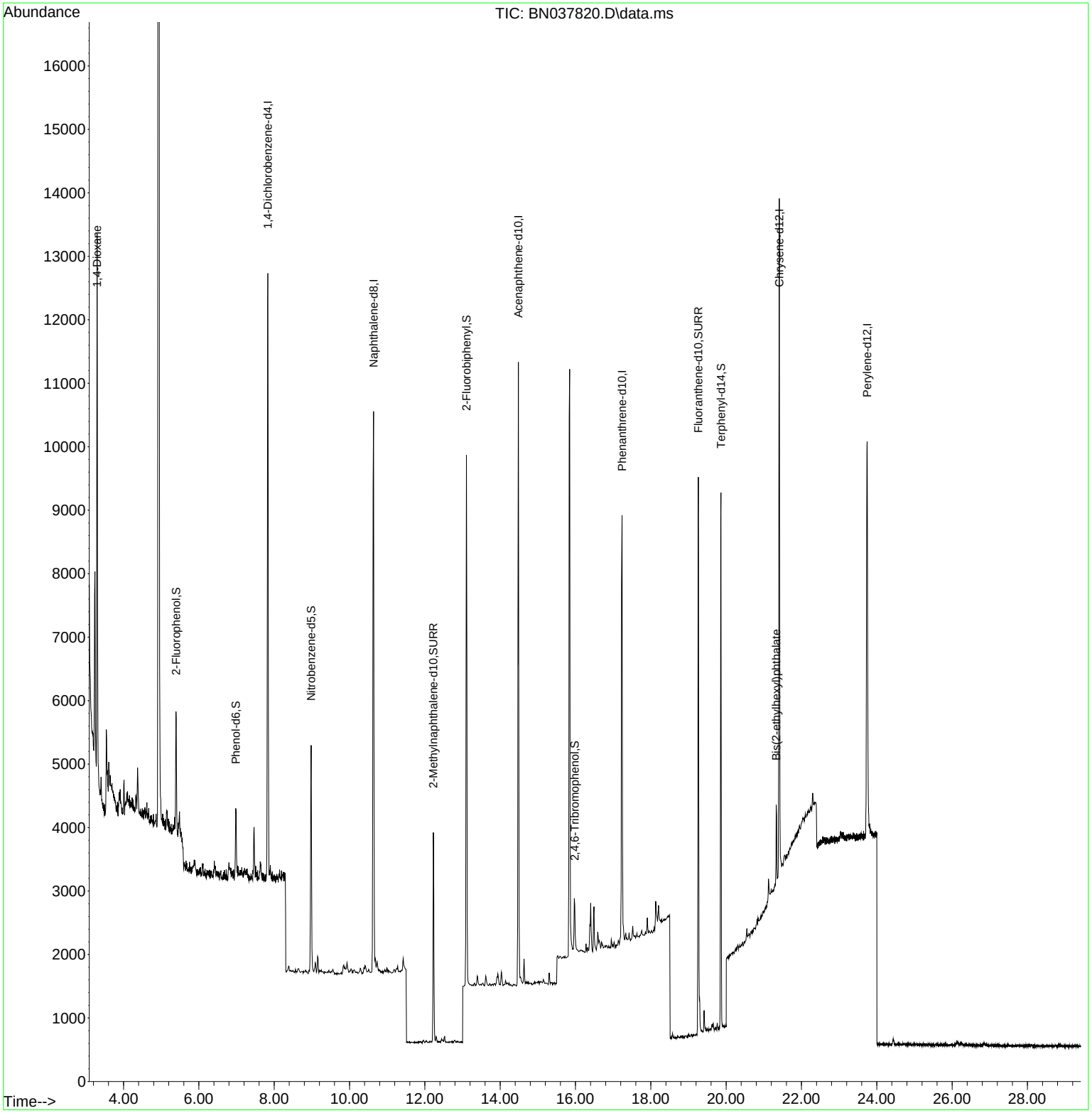
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	4623	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	12153	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	5319	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	10150	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	9405	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	8969	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1553	0.146	ng	0.00
5) Phenol-d6	6.980	99	986	0.072	ng	0.00
8) Nitrobenzene-d5	8.982	82	2786	0.313	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	4358	0.271	ng	-0.02
14) 2,4,6-Tribromophenol	15.982	330	573	0.413	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	6855	0.308	ng	-0.01
27) Fluoranthene-d10	19.262	212	9689	0.380	ng	0.00
31) Terphenyl-d14	19.861	244	7908	0.414	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	5022	1.043	ng	94
34) Bis(2-ethylhexyl)phtha...	21.331	149	1373	0.141	ng	99

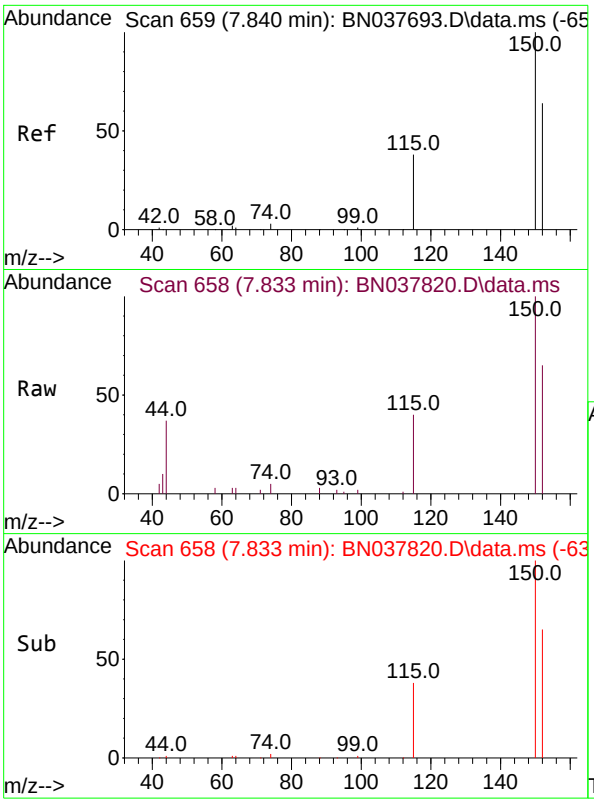
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037820.D
Acq On : 19 Sep 2025 18:34
Operator : RC/JU
Sample : Q3097-22
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

Quant Time: Sep 19 23:55:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



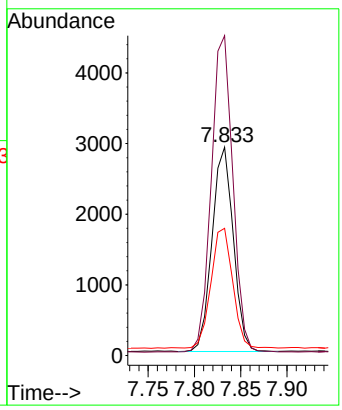


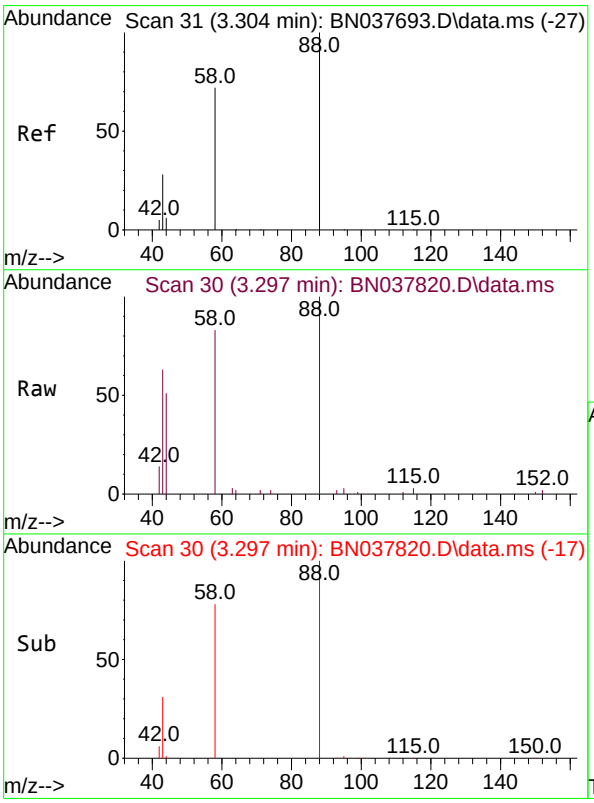
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

Tgt Ion:152 Resp: 4623

Ion	Ratio	Lower	Upper
152	100		
150	153.5	124.5	186.7
115	61.1	49.2	73.8

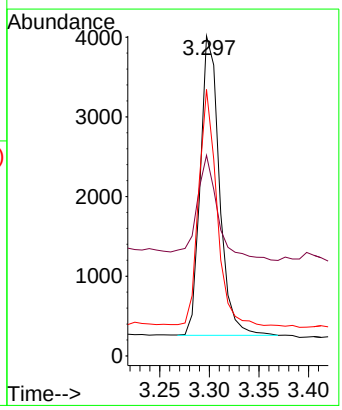


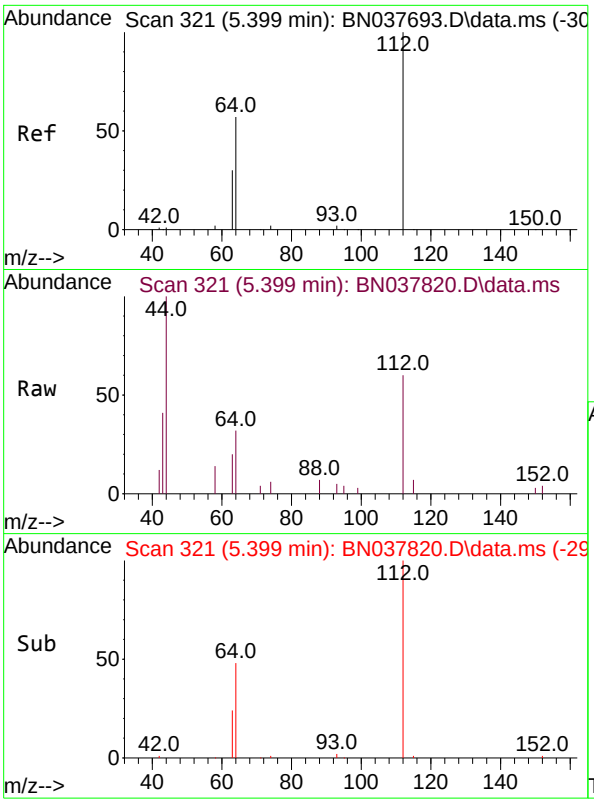


#2
1,4-Dioxane
Concen: 1.043 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Tgt Ion: 88 Resp: 5022

Ion	Ratio	Lower	Upper
88	100		
43	39.4	26.8	40.2
58	74.2	61.9	92.9



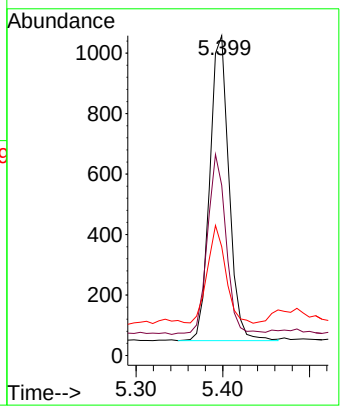


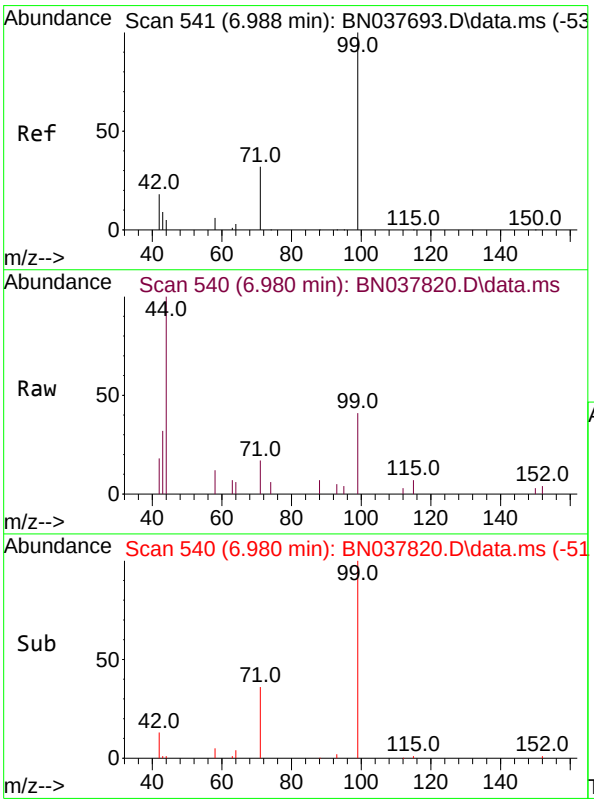
#4
2-Fluorophenol
Concen: 0.146 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

Tgt Ion:112 Resp: 1553

Ion	Ratio	Lower	Upper
112	100		
64	57.4	44.9	67.3
63	30.8	24.7	37.1

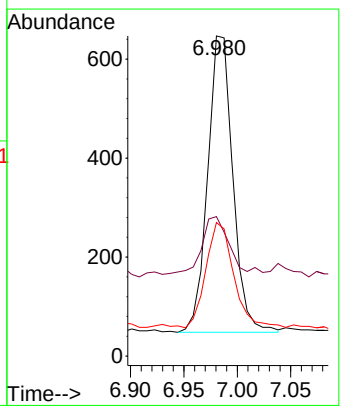


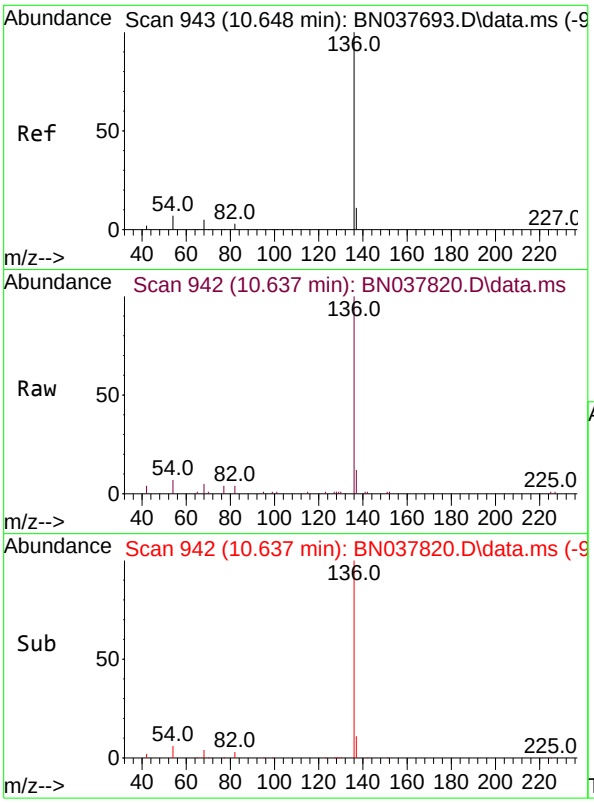


#5
Phenol-d6
Concen: 0.072 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Tgt Ion: 99 Resp: 986

Ion	Ratio	Lower	Upper
99	100		
42	22.8	16.6	24.8
71	38.7	26.7	40.1



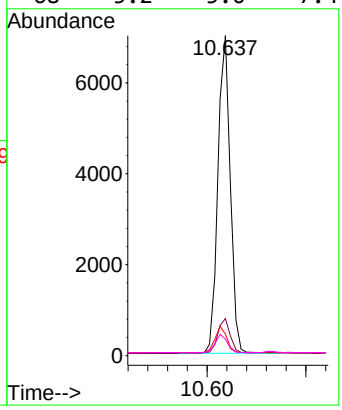


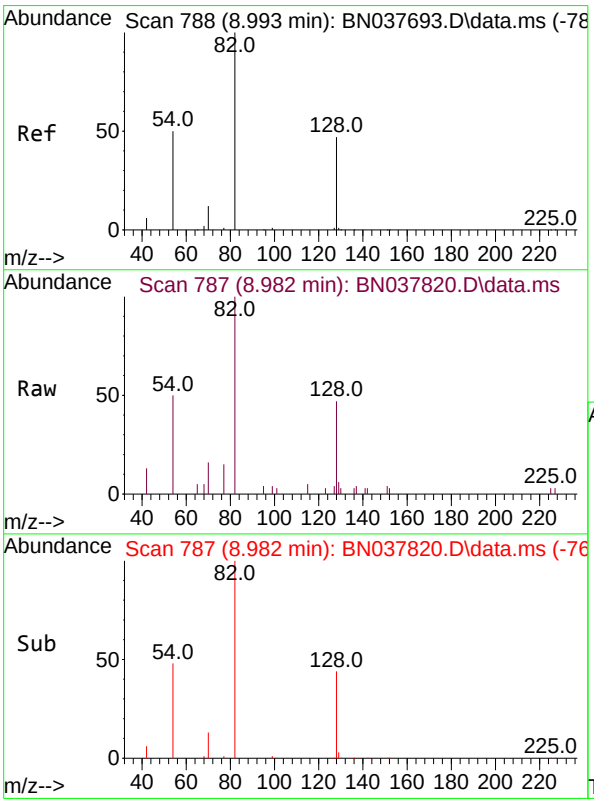
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

Tgt Ion:136 Resp: 12153

Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	6.7	6.3	9.5
68	5.2	5.0	7.4

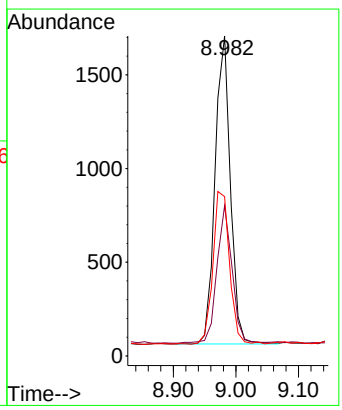


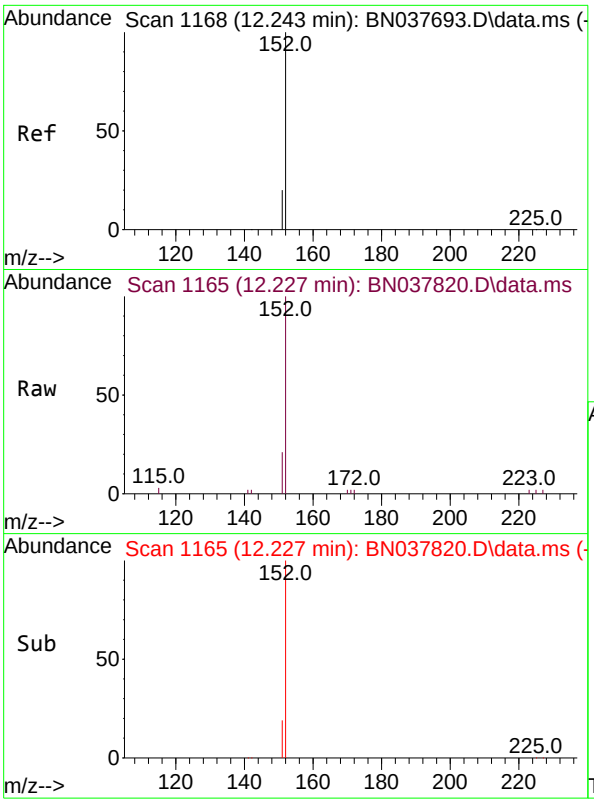


#8
Nitrobenzene-d5
Concen: 0.313 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Tgt Ion: 82 Resp: 2786

Ion	Ratio	Lower	Upper
82	100		
128	47.0	38.3	57.5
54	49.8	41.4	62.2



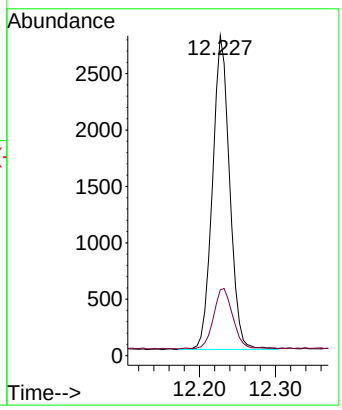


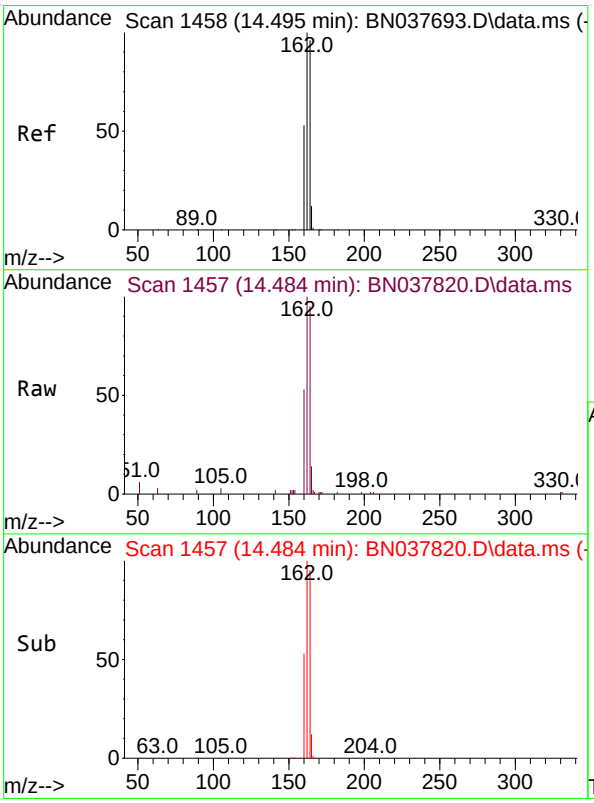
#11
2-Methylnaphthalene-d10
Concen: 0.271 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

Tgt Ion:152 Resp: 4358

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.0	25.6

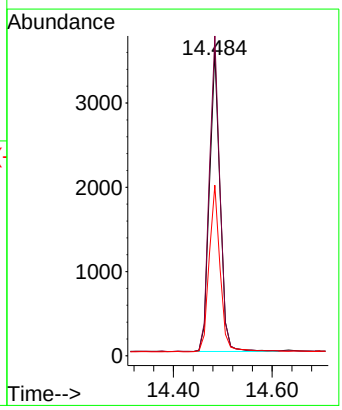


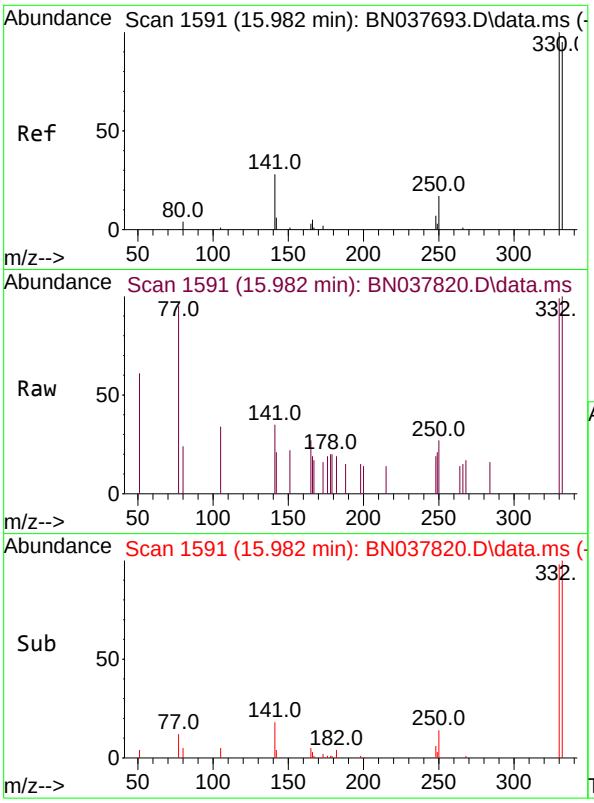


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Tgt Ion:164 Resp: 5319

Ion	Ratio	Lower	Upper
164	100		
162	105.3	83.1	124.7
160	56.1	44.3	66.5



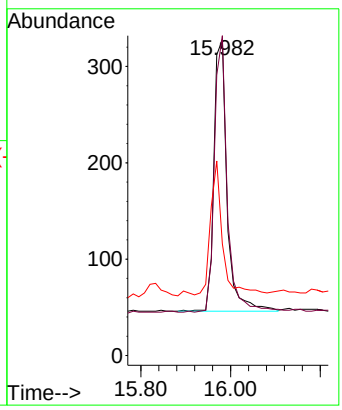


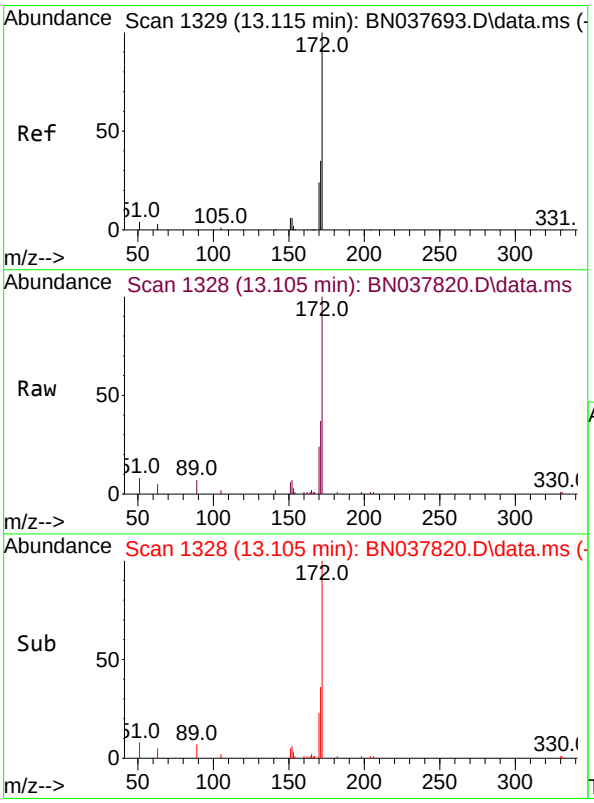
#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

Tgt Ion:330 Resp: 573

Ion	Ratio	Lower	Upper
330	100		
332	100.0	75.3	112.9
141	45.2	35.0	52.4

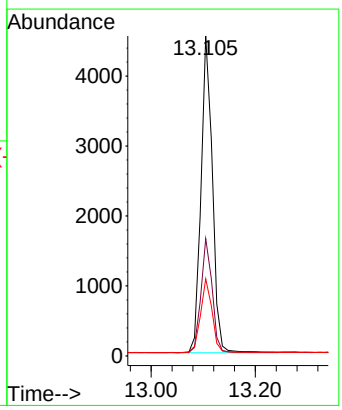


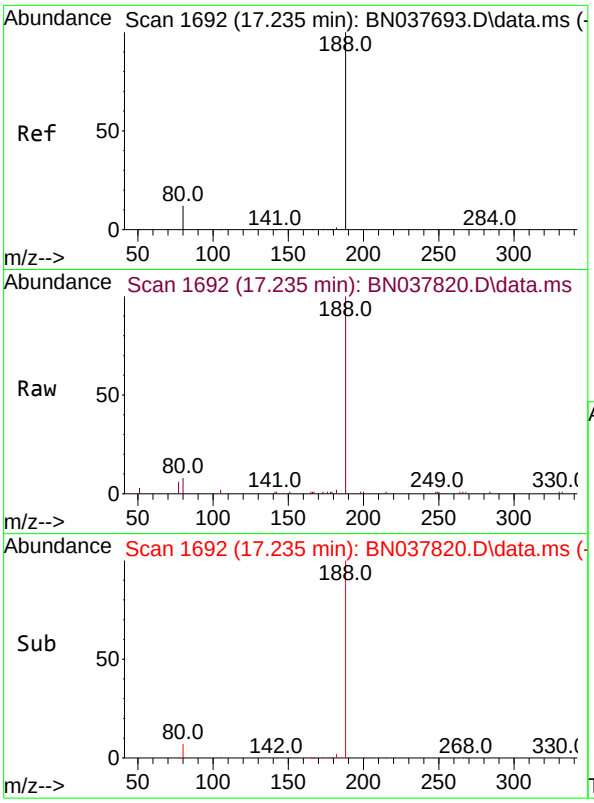


#15
2-Fluorobiphenyl
Concen: 0.308 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Tgt Ion:172 Resp: 6855

Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.6	43.0
170	24.1	19.8	29.8



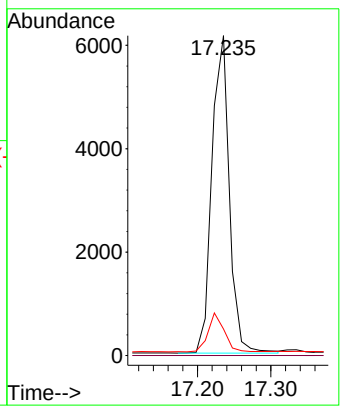


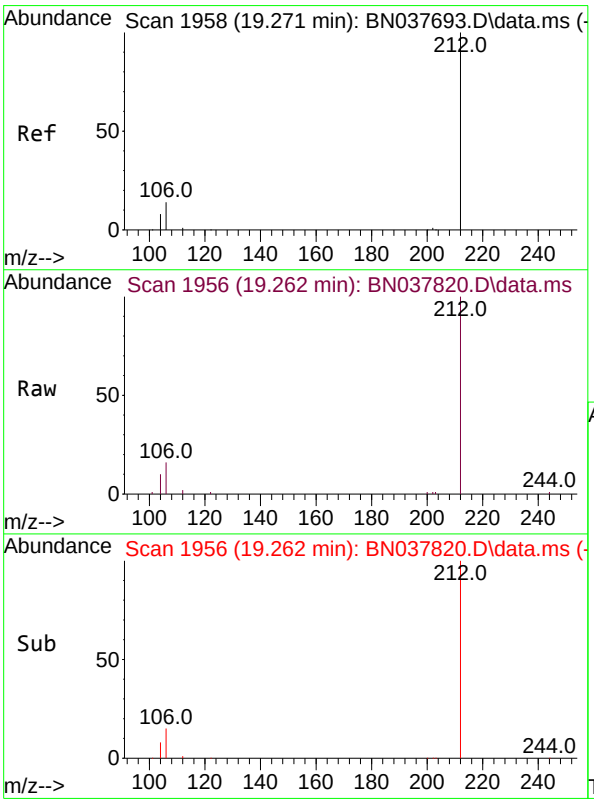
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

Tgt Ion:188 Resp: 10150

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.3	10.6	15.8#

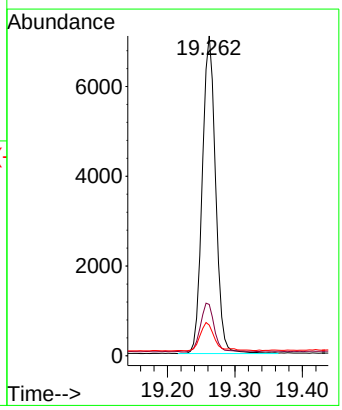


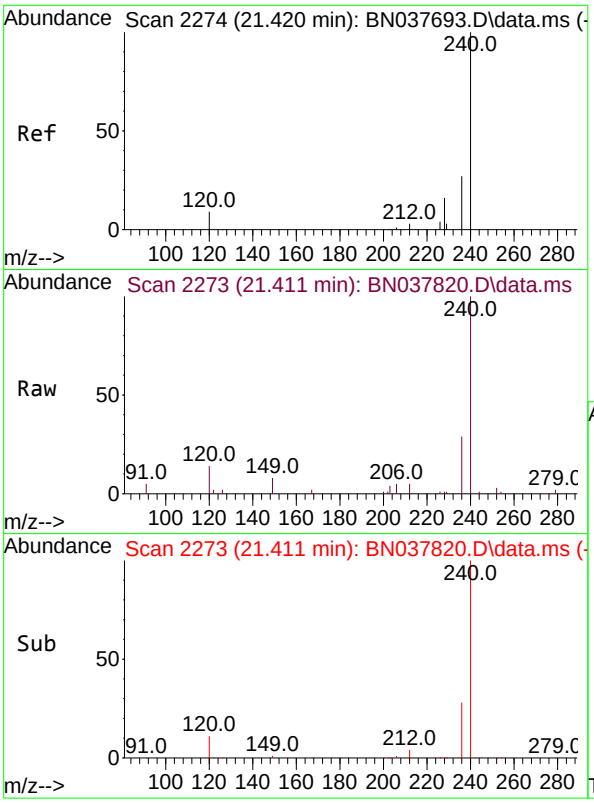


#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Tgt Ion:212 Resp: 9689

Ion	Ratio	Lower	Upper
212	100		
106	16.1	12.2	18.2
104	9.5	6.9	10.3



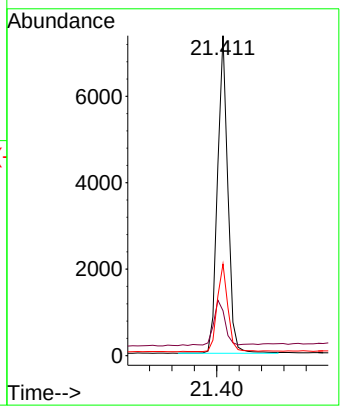


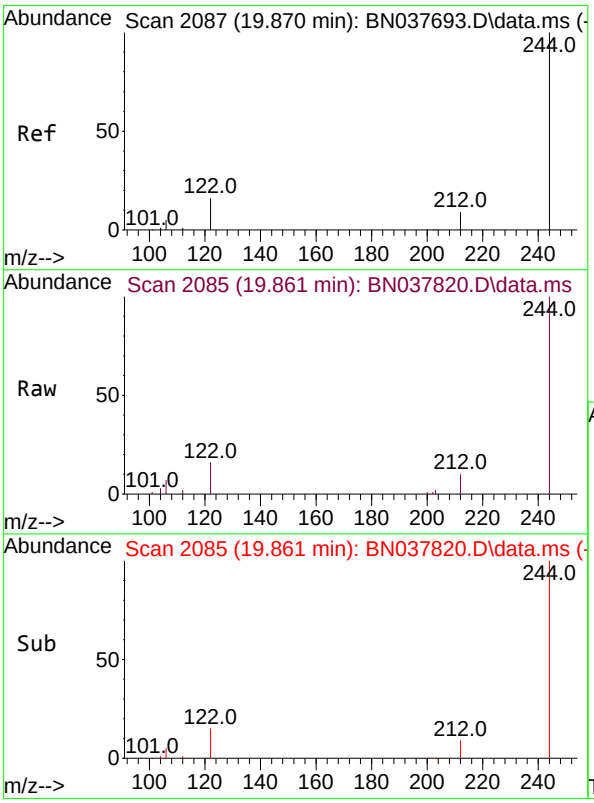
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

Tgt Ion:240 Resp: 9405

Ion	Ratio	Lower	Upper
240	100		
120	14.0	9.2	13.8#
236	28.7	22.6	33.8

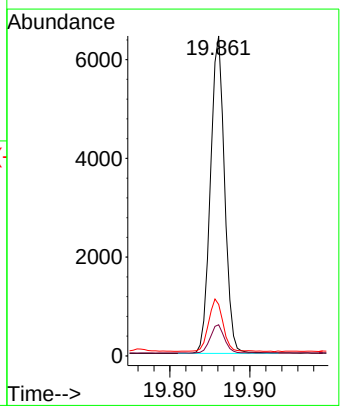


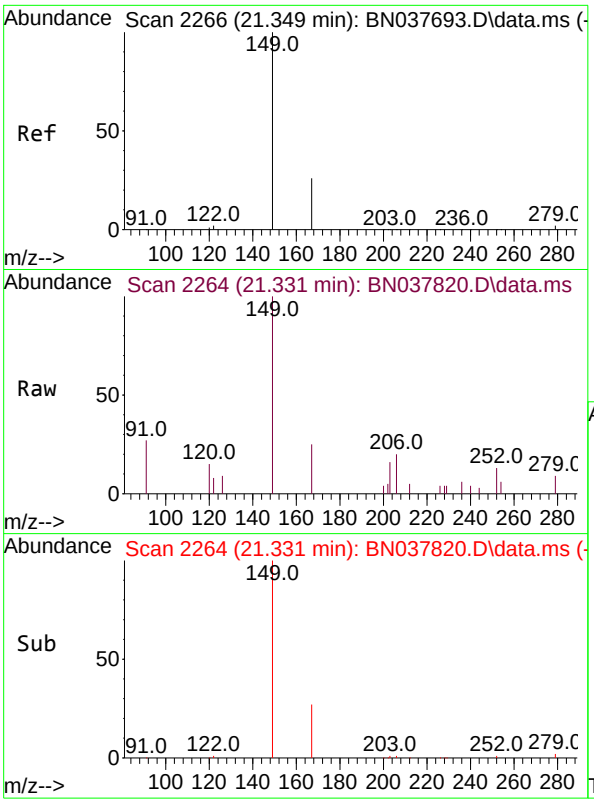


#31
Terphenyl-d14
Concen: 0.414 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Tgt Ion:244 Resp: 7908

Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.5	11.3
122	16.1	13.2	19.8



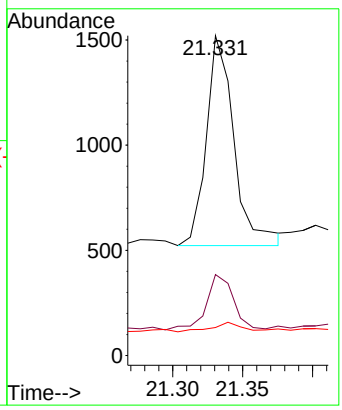


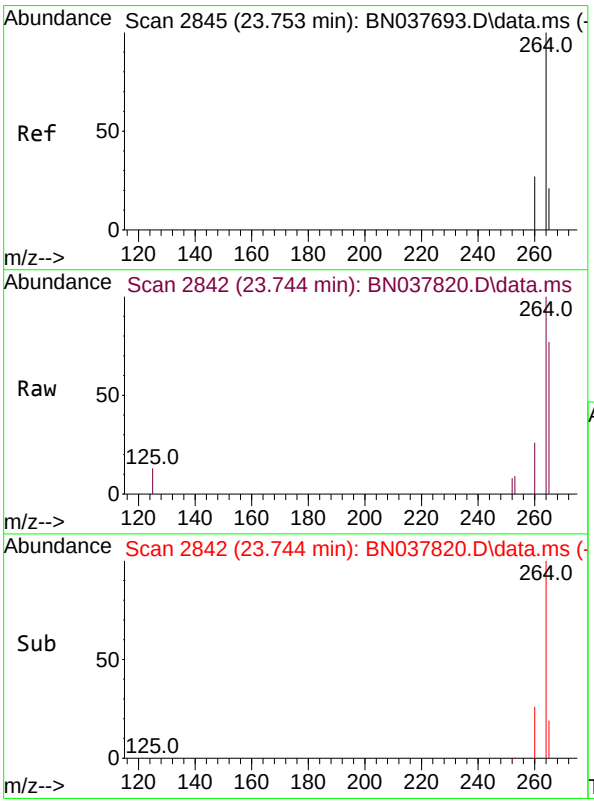
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.141 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

Tgt Ion:149 Resp: 1373

Ion	Ratio	Lower	Upper
149	100		
167	25.7	20.8	31.2
279	4.9	3.3	4.9

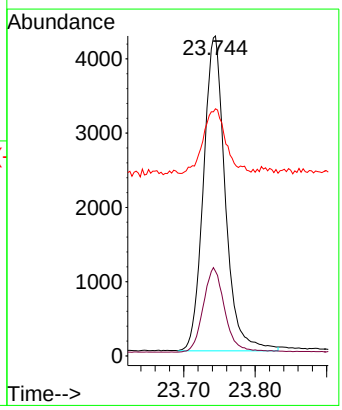




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Tgt Ion:264 Resp: 8969

Ion	Ratio	Lower	Upper
264	100		
260	26.5	21.8	32.8
265	77.2	39.4	59.2#



Raw Data: **BN037821.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D4-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-23	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037821.D	1	09/16/25 09:39	09/19/25 19:11	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.50		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		67%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4710	7.833				
1146-65-2	Naphthalene-d8	14500	10.637				
15067-26-2	Acenaphthene-d10	6240	14.484				
1517-22-2	Phenanthrene-d10	11900	17.236				
1719-03-5	Chrysene-d12	10000	21.411				
1520-96-3	Perylene-d12	9360	23.739				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037821.D
Acq On : 19 Sep 2025 19:11
Operator : RC/JU
Sample : Q3097-23
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

Quant Time: Sep 19 23:55:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

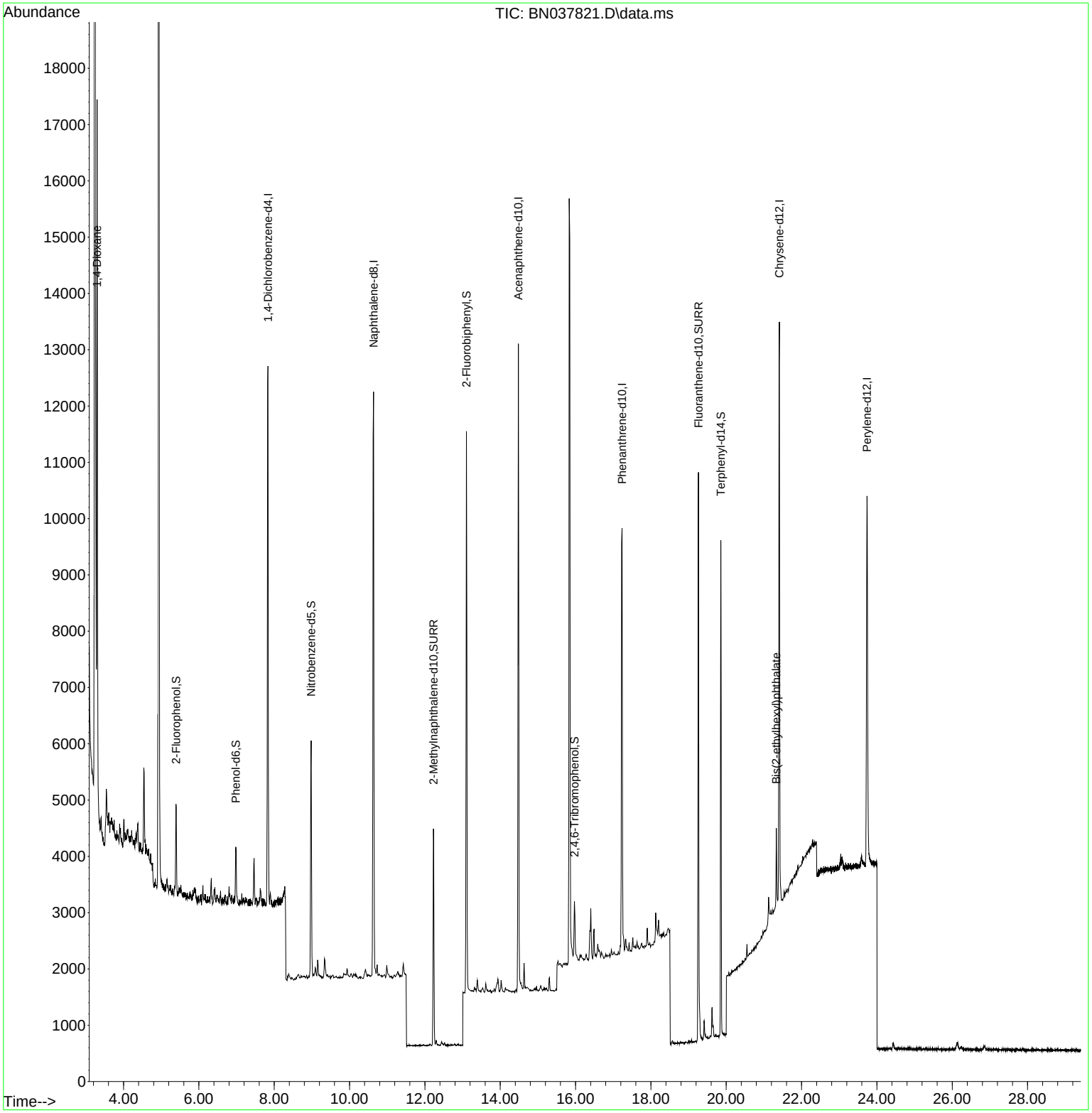
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	4710	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	14487	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	6237	0.400	ng	-0.01
19) Phenanthrene-d10	17.236	188	11940	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10042	0.400	ng	0.00
35) Perylene-d12	23.739	264	9356	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1273	0.118	ng	0.00
5) Phenol-d6	6.981	99	914	0.065	ng	0.00
8) Nitrobenzene-d5	8.982	82	3334	0.315	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	5135	0.268	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	651	0.400	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	8107	0.311	ng	-0.01
27) Fluoranthene-d10	19.262	212	10926	0.364	ng	0.00
31) Terphenyl-d14	19.857	244	8235	0.404	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	7222	1.472	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	1333	0.128	ng	# 99

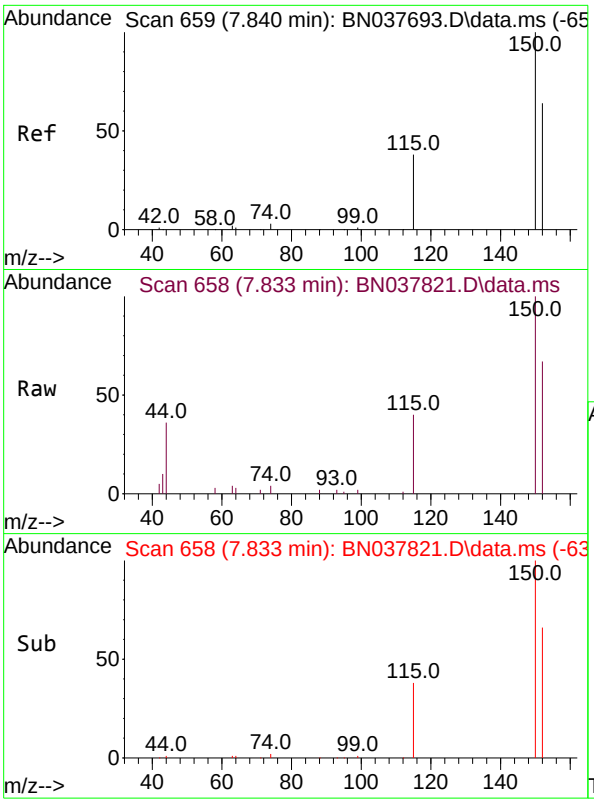
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037821.D
Acq On : 19 Sep 2025 19:11
Operator : RC/JU
Sample : Q3097-23
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

Quant Time: Sep 19 23:55:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



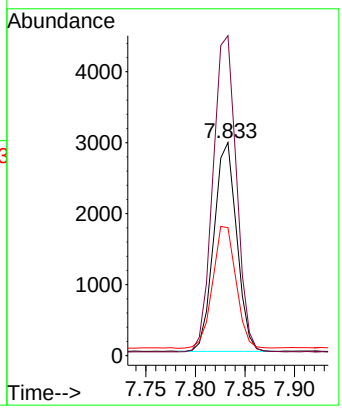


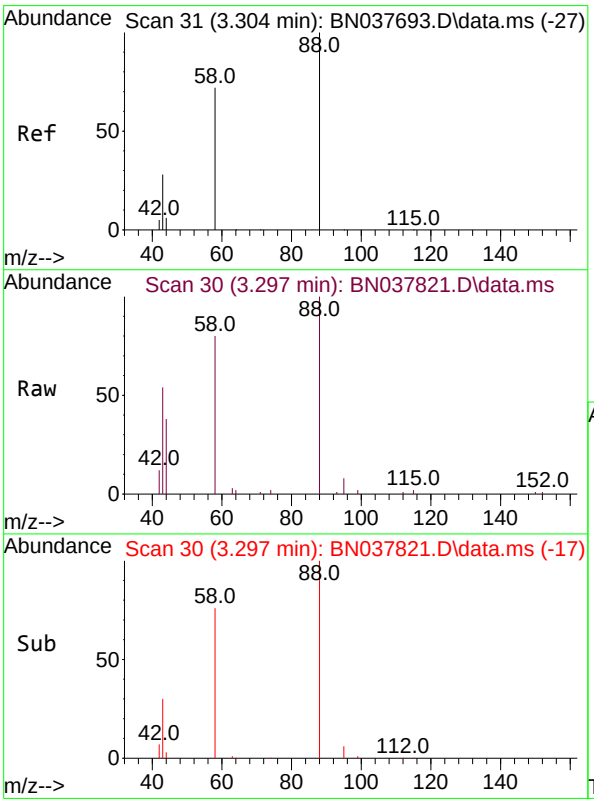
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

Tgt Ion:152 Resp: 4710

Ion	Ratio	Lower	Upper
152	100		
150	150.2	124.5	186.7
115	60.1	49.2	73.8

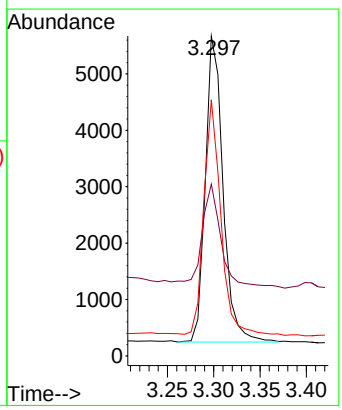


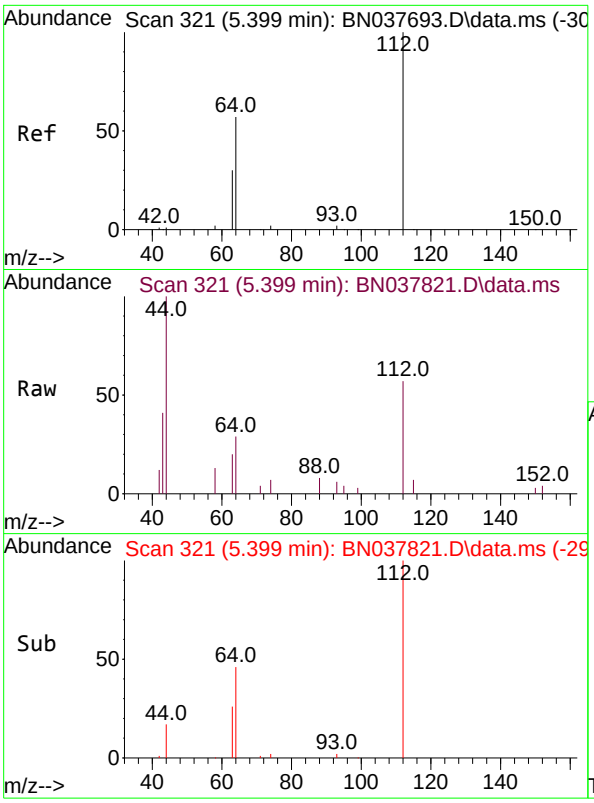


#2
1,4-Dioxane
Concen: 1.472 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Tgt Ion: 88 Resp: 7222

Ion	Ratio	Lower	Upper
88	100		
43	34.0	26.8	40.2
58	72.7	61.9	92.9



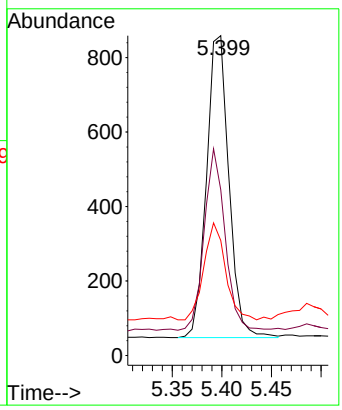


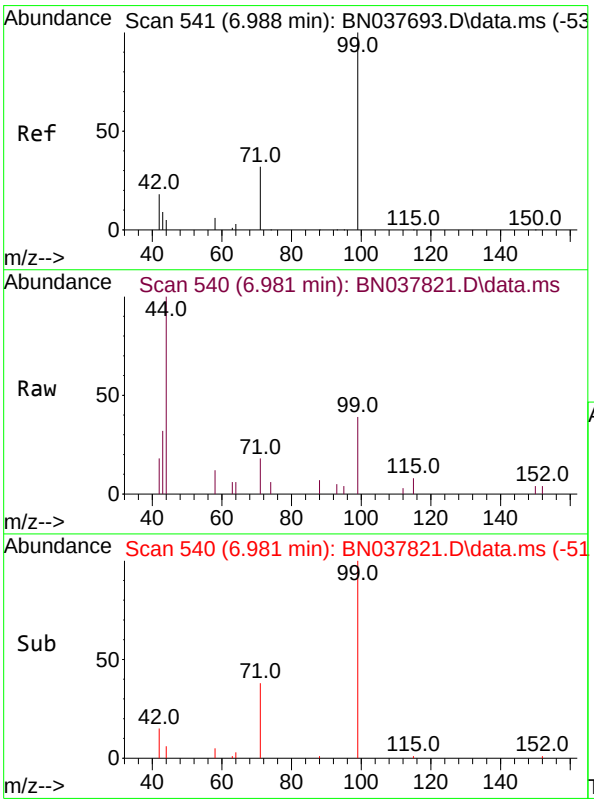
#4
2-Fluorophenol
Concen: 0.118 ng
RT: 5.399 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

Tgt Ion:112 Resp: 1273

Ion	Ratio	Lower	Upper
112	100		
64	55.1	44.9	67.3
63	31.0	24.7	37.1

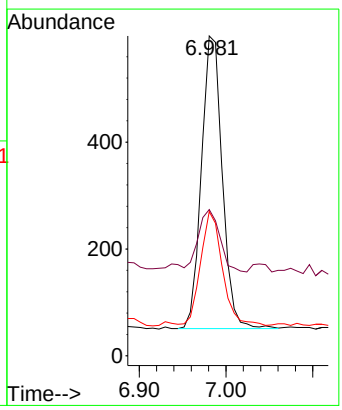


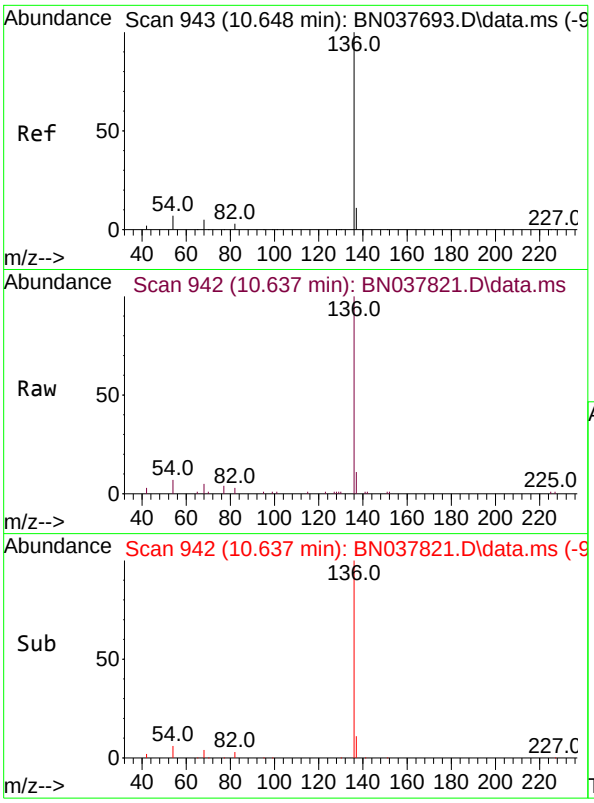


#5
Phenol-d6
Concen: 0.065 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Tgt Ion: 99 Resp: 914

Ion	Ratio	Lower	Upper
99	100		
42	24.4	16.6	24.8
71	40.5	26.7	40.1#



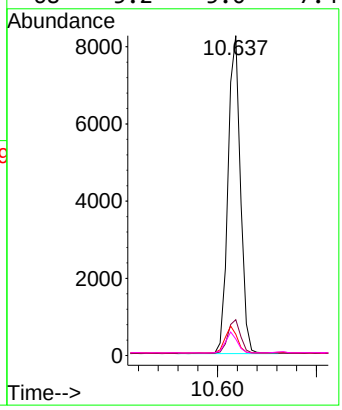


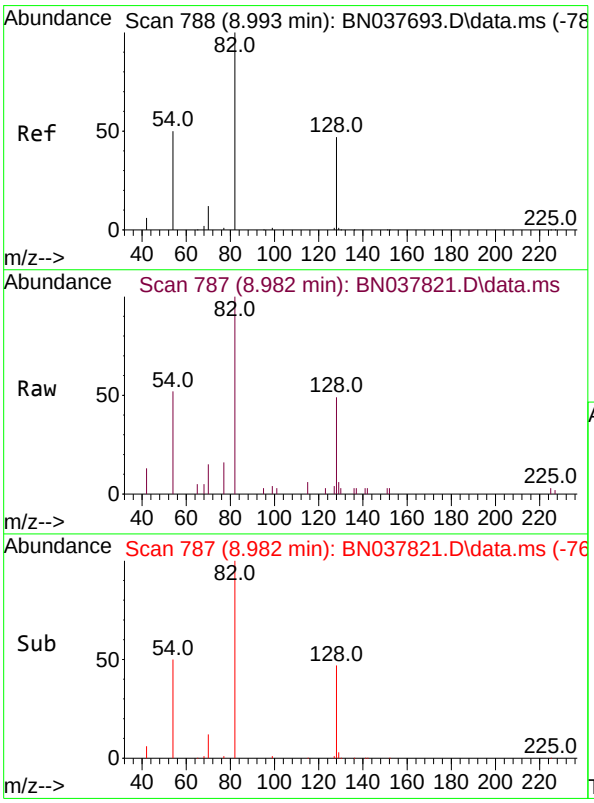
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

Tgt Ion:136 Resp: 14487

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.7	6.3	9.5
68	5.2	5.0	7.4

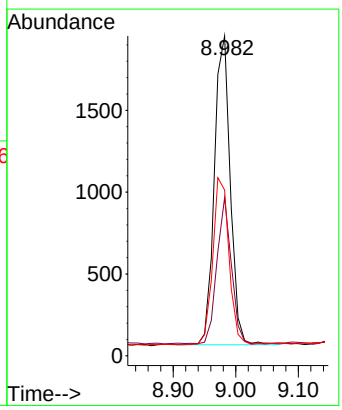


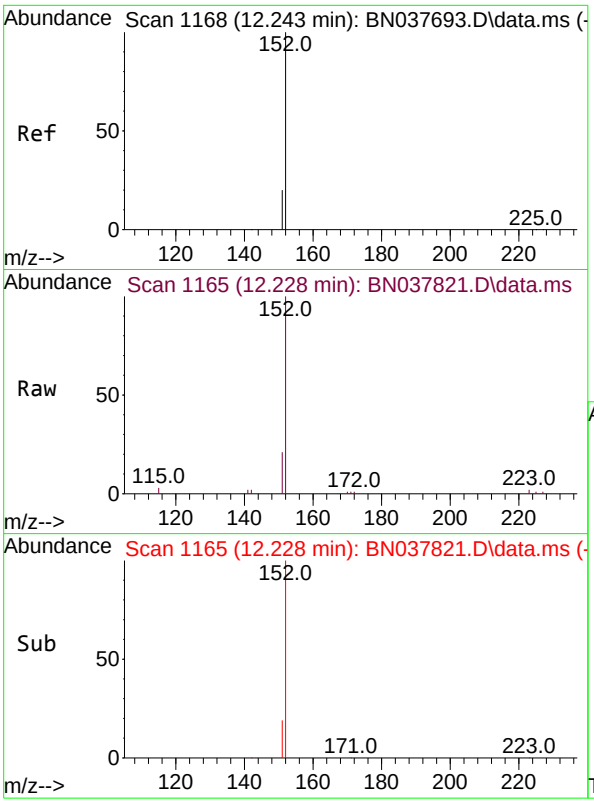


#8
Nitrobenzene-d5
Concen: 0.315 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Tgt Ion: 82 Resp: 3334

Ion	Ratio	Lower	Upper
82	100		
128	49.4	38.3	57.5
54	51.8	41.4	62.2



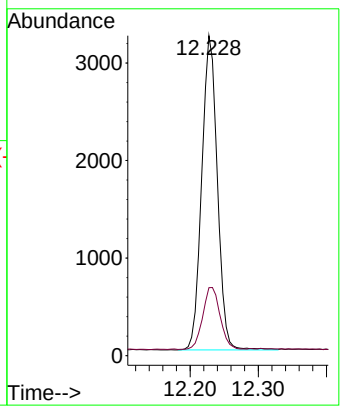


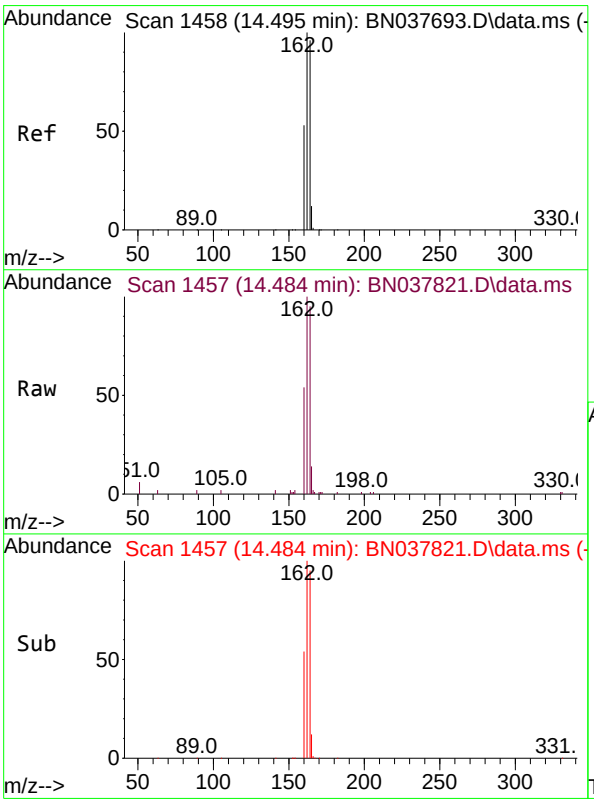
#11
2-Methylnaphthalene-d10
Concen: 0.268 ng
RT: 12.228 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

Tgt Ion:152 Resp: 5135

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.0	25.6

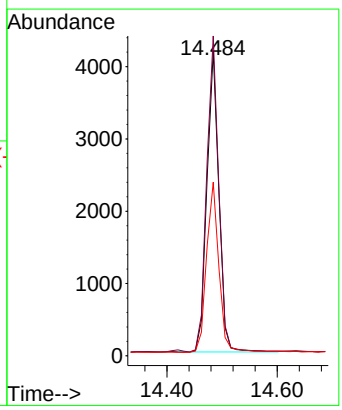


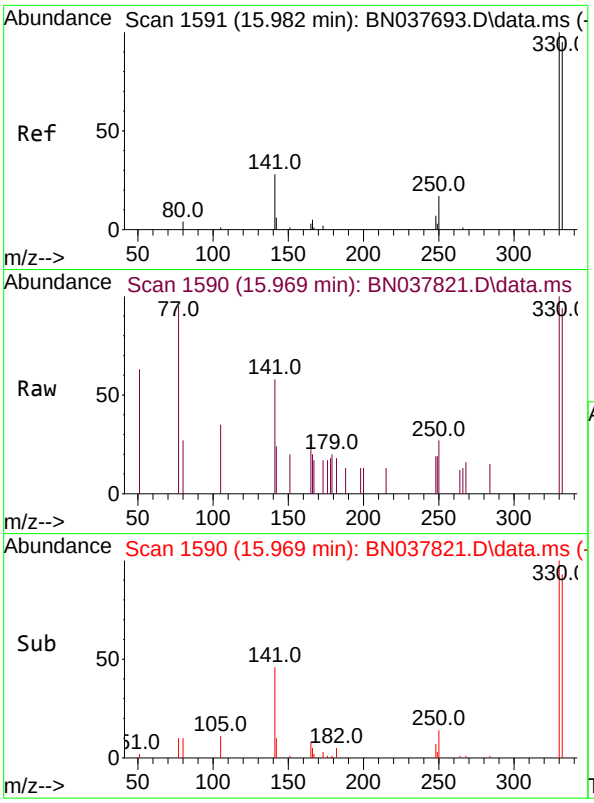


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Tgt Ion:164 Resp: 6237

Ion	Ratio	Lower	Upper
164	100		
162	105.0	83.1	124.7
160	57.0	44.3	66.5



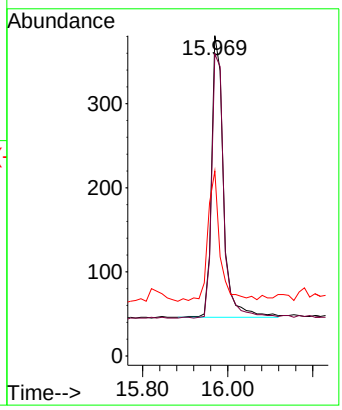


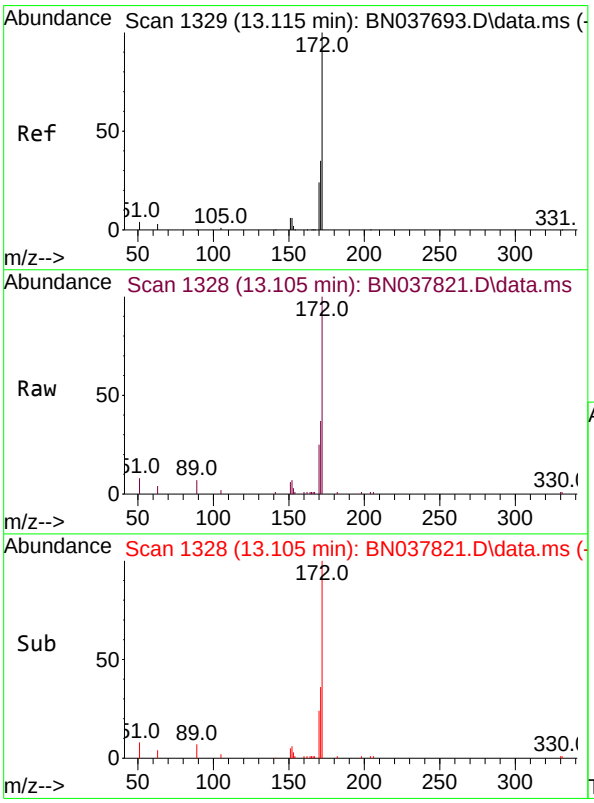
#14
2,4,6-Tribromophenol
Concen: 0.400 ng
RT: 15.969 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

Tgt Ion:330 Resp: 651

Ion	Ratio	Lower	Upper
330	100		
332	96.6	75.3	112.9
141	47.6	35.0	52.4

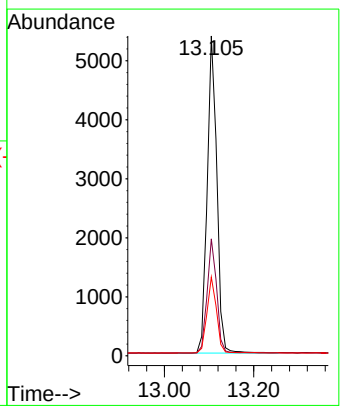


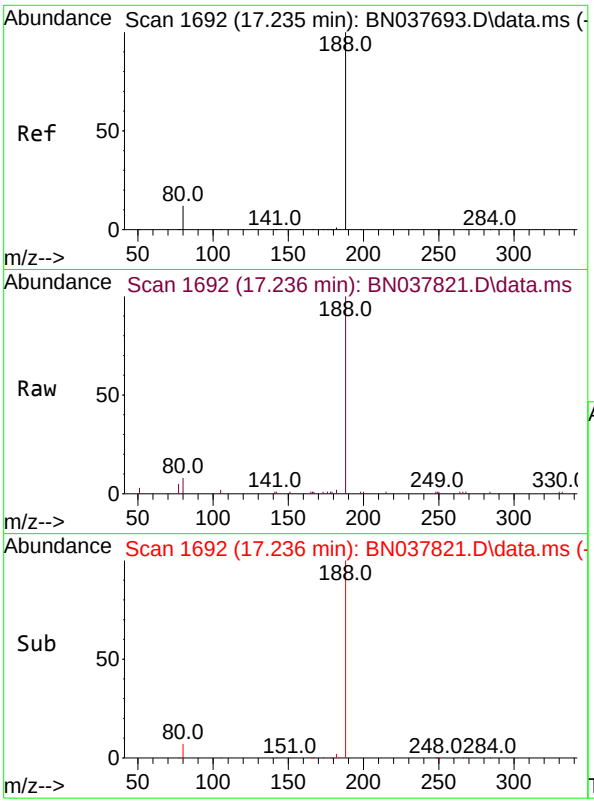


#15
2-Fluorobiphenyl
Concen: 0.311 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Tgt Ion:172 Resp: 8107

Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.6	43.0
170	24.6	19.8	29.8



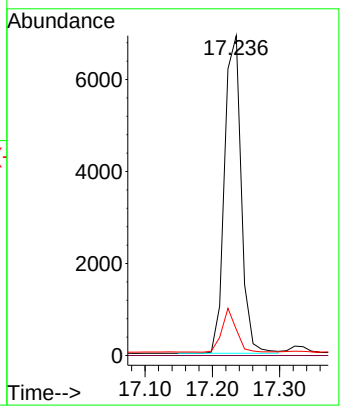


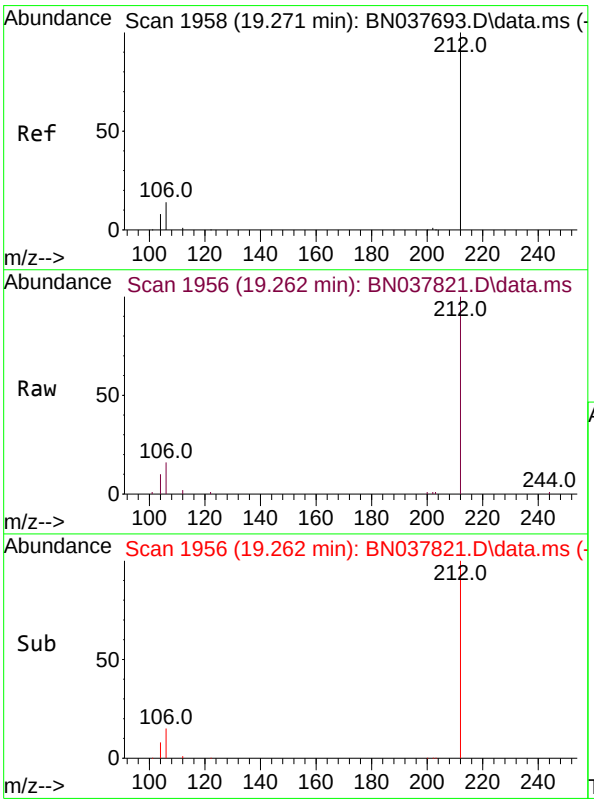
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

Tgt Ion:188 Resp: 11940

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.2	10.6	15.8#

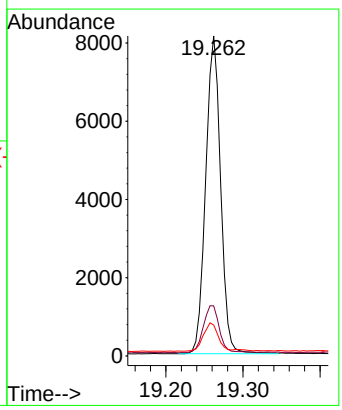


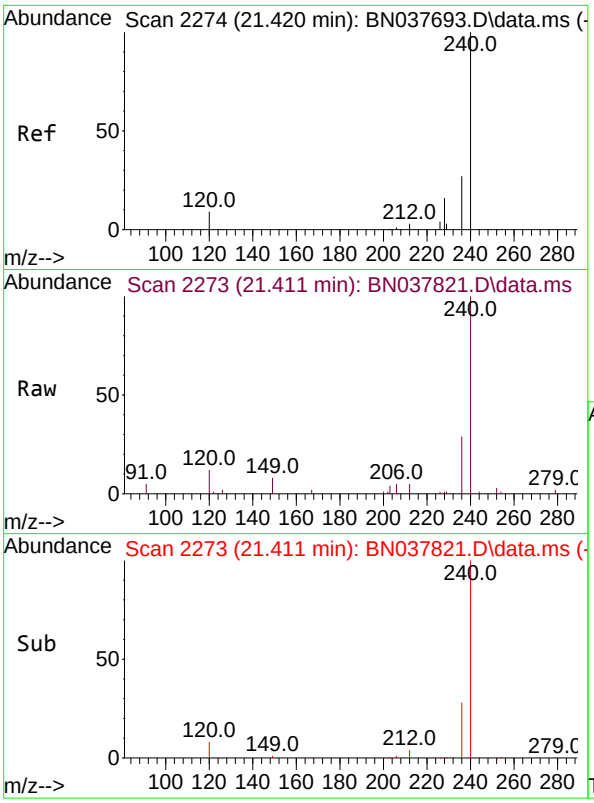


#27
Fluoranthene-d10
Concen: 0.364 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Tgt Ion:212 Resp: 10926

Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.2	18.2
104	8.8	6.9	10.3



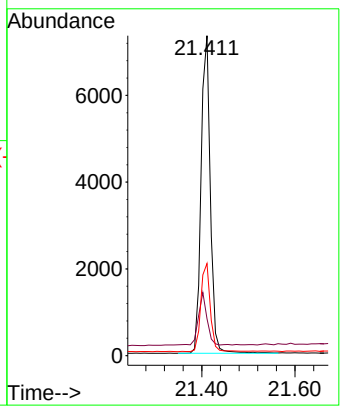


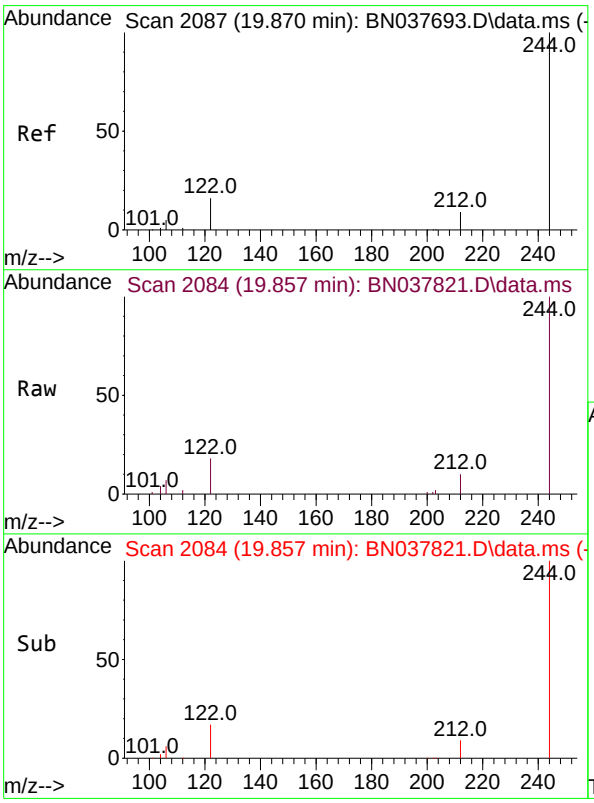
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

Tgt Ion:240 Resp: 10042

Ion	Ratio	Lower	Upper
240	100		
120	11.5	9.2	13.8
236	28.8	22.6	33.8

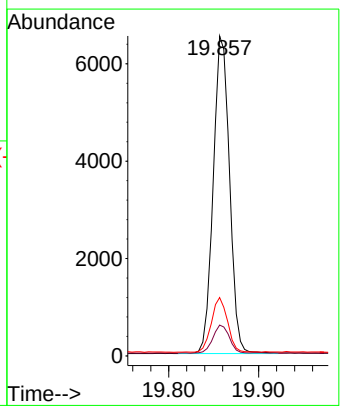


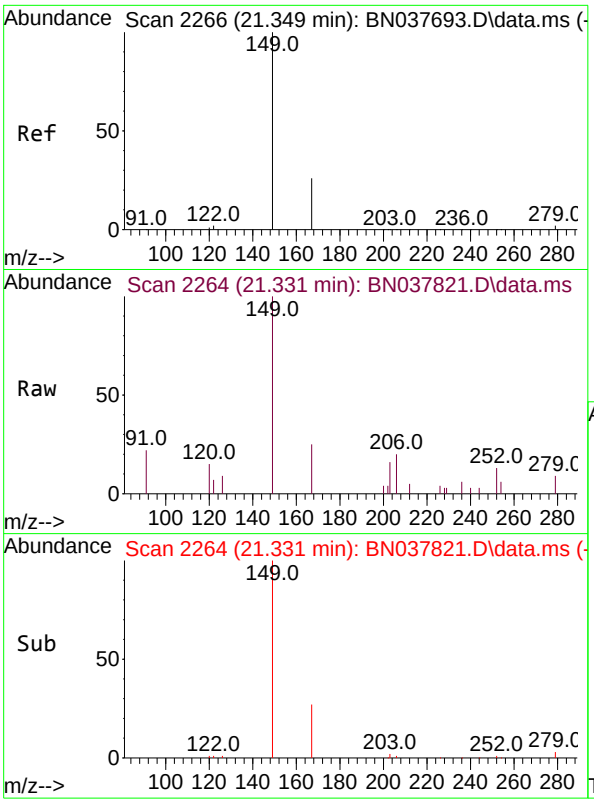


#31
Terphenyl-d14
Concen: 0.404 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Tgt Ion:244 Resp: 8235

Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.5	11.3
122	18.2	13.2	19.8



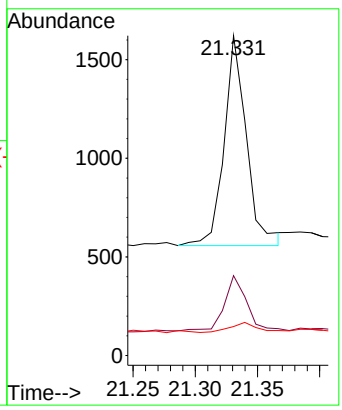


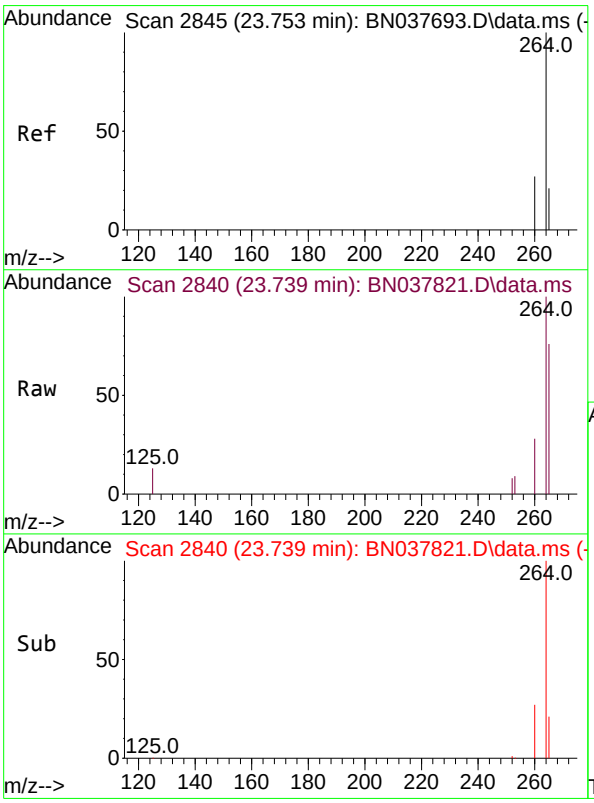
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.128 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

Tgt Ion:149 Resp: 1333

Ion	Ratio	Lower	Upper
149	100		
167	26.0	20.8	31.2
279	6.2	3.3	4.9#

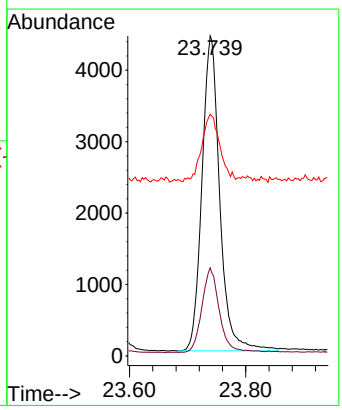




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Tgt Ion:264 Resp: 9356

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.8	32.8
265	75.5	39.4	59.2#



Raw Data: **BN037822.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D2-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-24	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037822.D	1	09/16/25 09:39	09/19/25 19:47	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.70	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4340	7.833				
1146-65-2	Naphthalene-d8	12500	10.637				
15067-26-2	Acenaphthene-d10	4960	14.484				
1517-22-2	Phenanthrene-d10	9440	17.235				
1719-03-5	Chrysene-d12	8490	21.411				
1520-96-3	Perylene-d12	8220	23.739				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037822.D
Acq On : 19 Sep 2025 19:47
Operator : RC/JU
Sample : Q3097-24
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

Quant Time: Sep 19 23:55:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

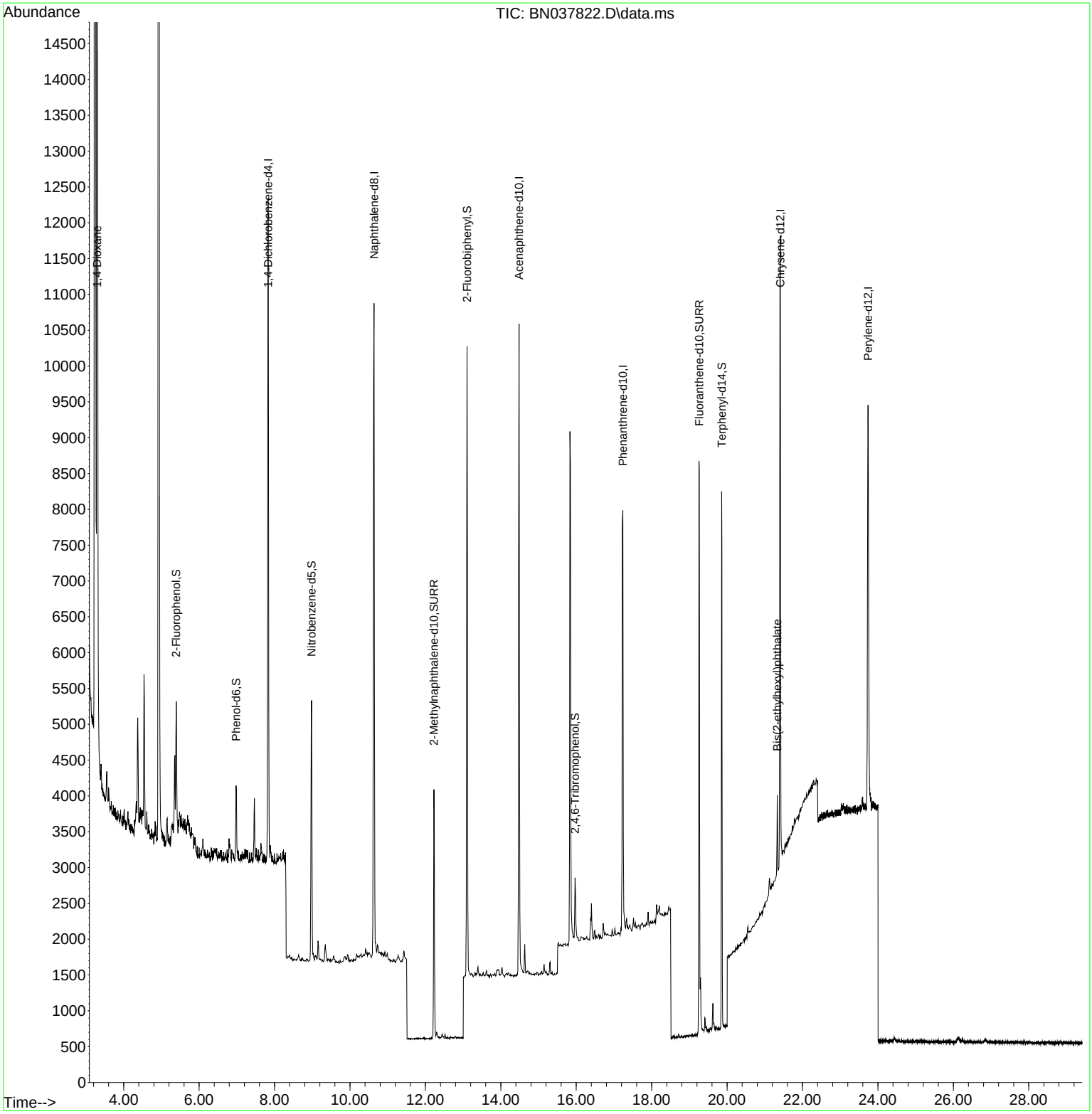
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	4342	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	12538	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	4964	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	9435	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	8486	0.400	ng	0.00
35) Perylene-d12	23.739	264	8219	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1445	0.145	ng	0.00
5) Phenol-d6	6.981	99	972	0.075	ng	0.00
8) Nitrobenzene-d5	8.982	82	2947	0.321	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	4608	0.277	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	585	0.452	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	7279	0.351	ng	-0.01
27) Fluoranthene-d10	19.262	212	8902	0.376	ng	0.00
31) Terphenyl-d14	19.857	244	6782	0.394	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	30135	6.663	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	945	0.108	ng	# 99

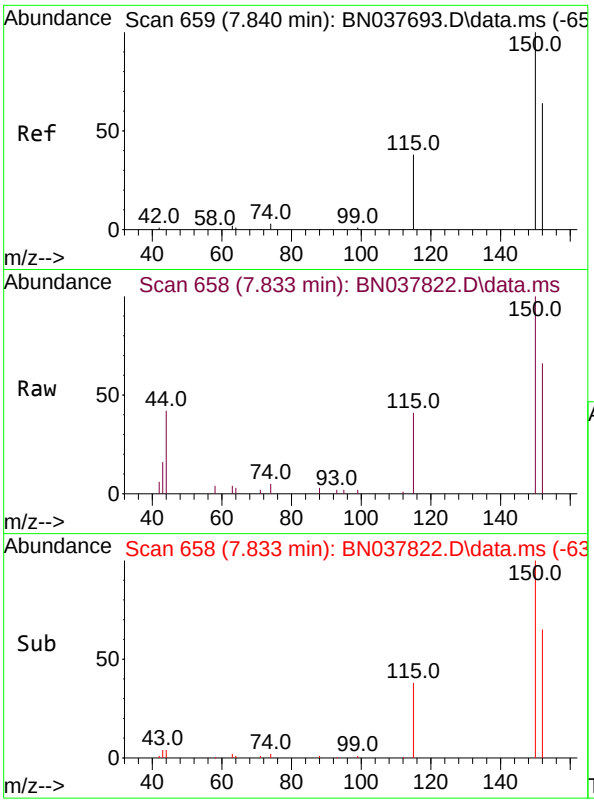
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037822.D
Acq On : 19 Sep 2025 19:47
Operator : RC/JU
Sample : Q3097-24
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

Quant Time: Sep 19 23:55:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



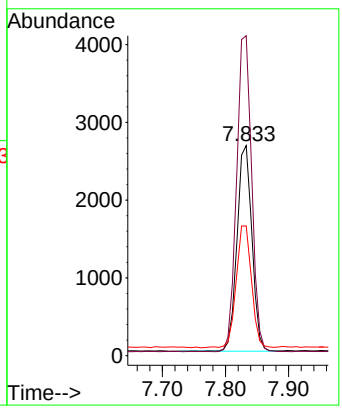


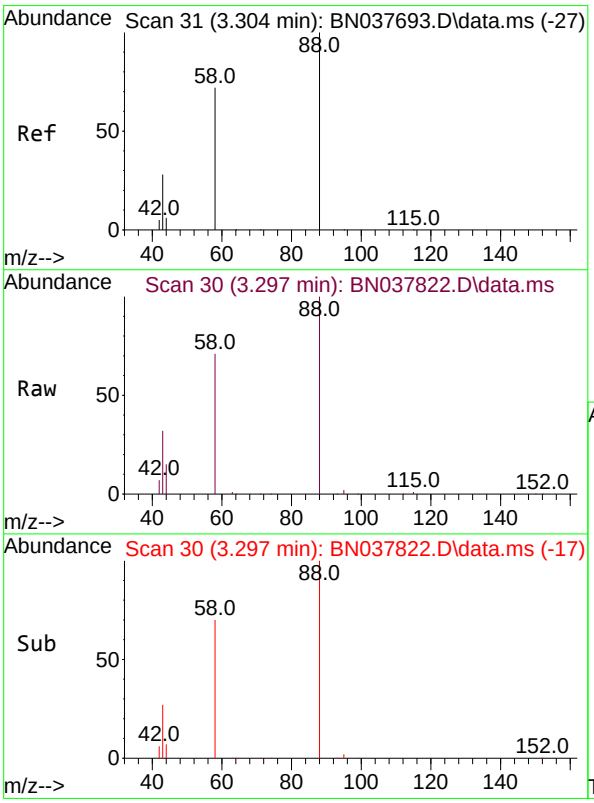
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

Tgt Ion:152 Resp: 4342

Ion	Ratio	Lower	Upper
152	100		
150	152.3	124.5	186.7
115	61.8	49.2	73.8

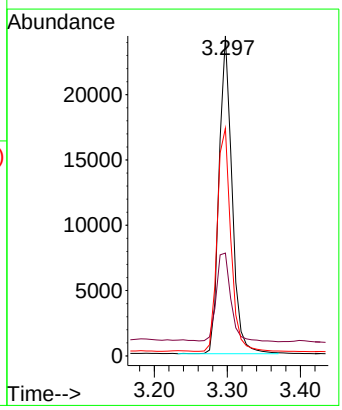


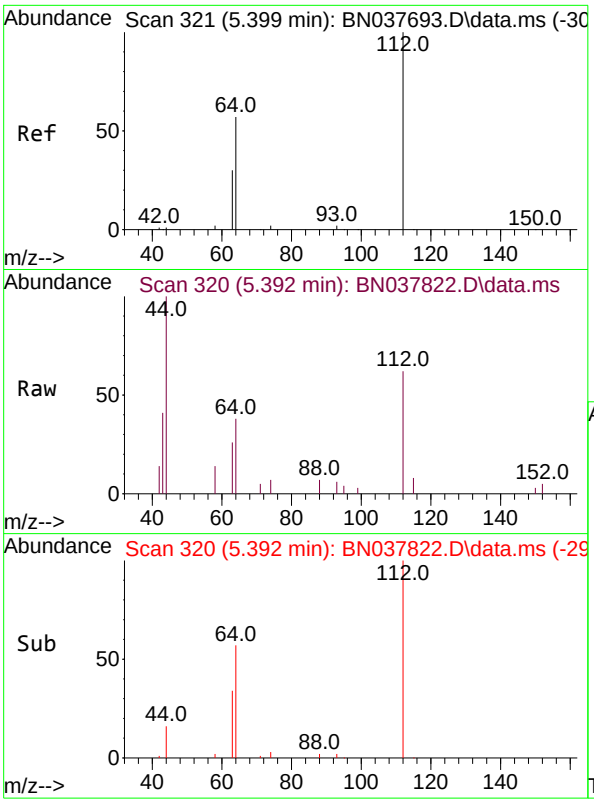


#2
1,4-Dioxane
Concen: 6.663 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion: 88 Resp: 30135

Ion	Ratio	Lower	Upper
88	100		
43	31.4	26.8	40.2
58	73.7	61.9	92.9



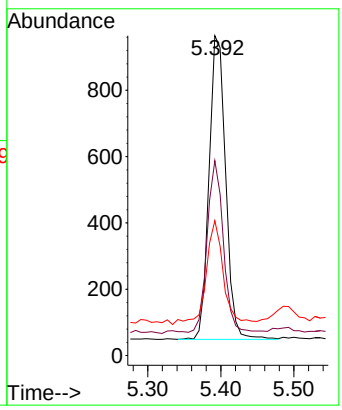


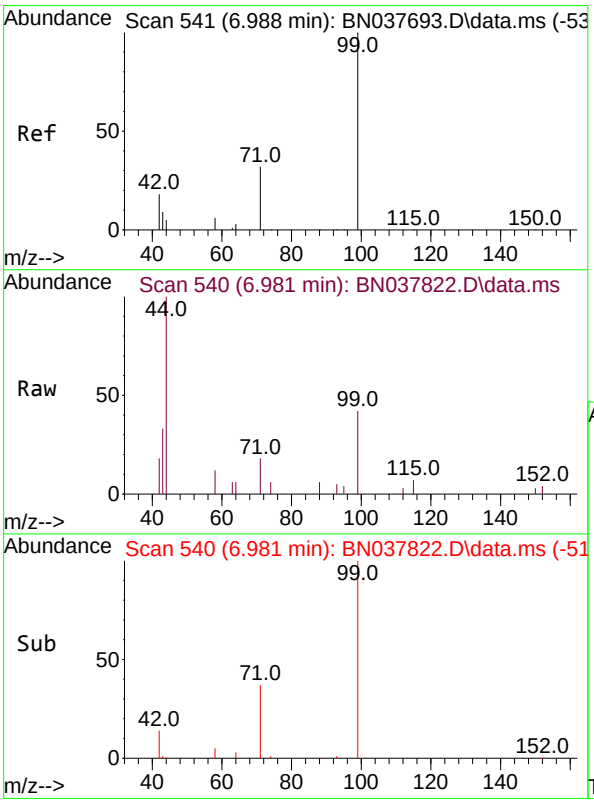
#4
2-Fluorophenol
Concen: 0.145 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

Tgt Ion:112 Resp: 1445

Ion	Ratio	Lower	Upper
112	100		
64	55.1	44.9	67.3
63	35.7	24.7	37.1

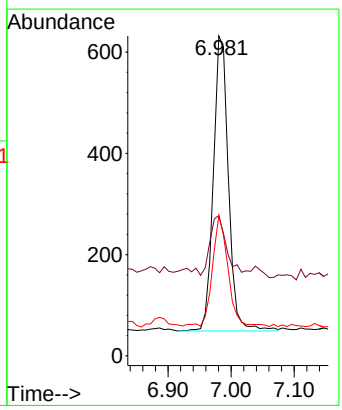


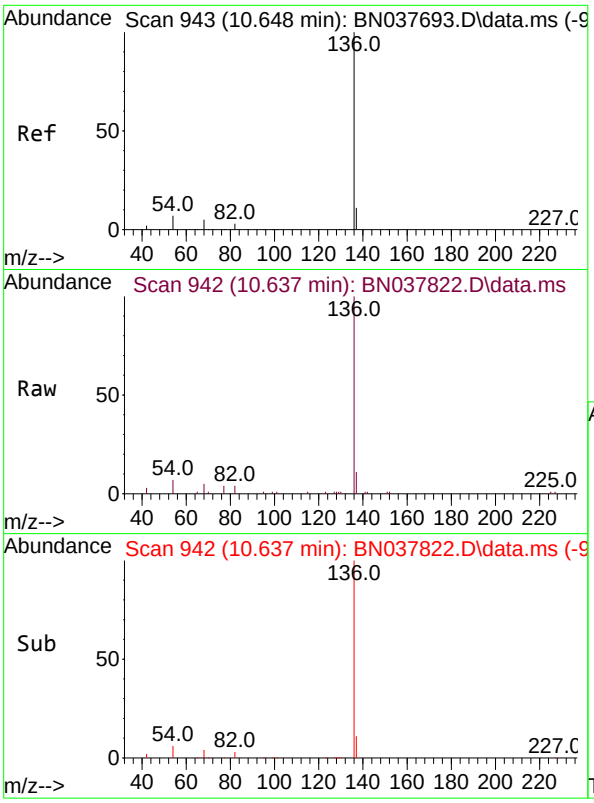


#5
Phenol-d6
Concen: 0.075 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion: 99 Resp: 972

Ion	Ratio	Lower	Upper
99	100		
42	22.3	16.6	24.8
71	39.0	26.7	40.1



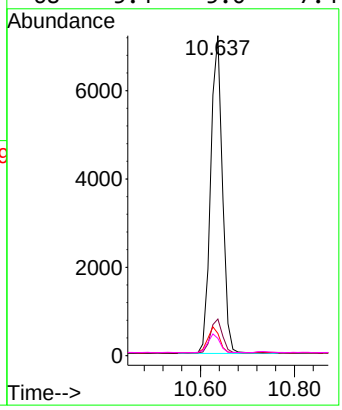


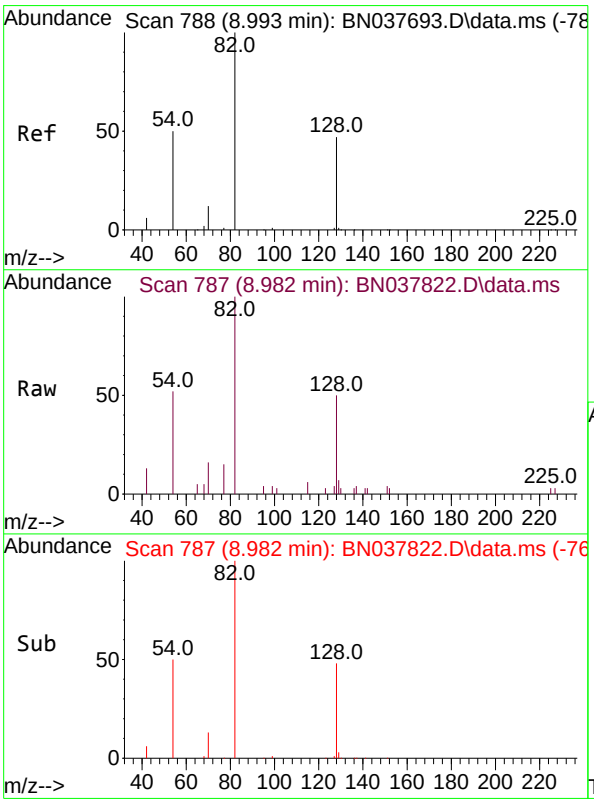
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

Tgt Ion:136 Resp: 12538

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	6.9	6.3	9.5
68	5.4	5.0	7.4

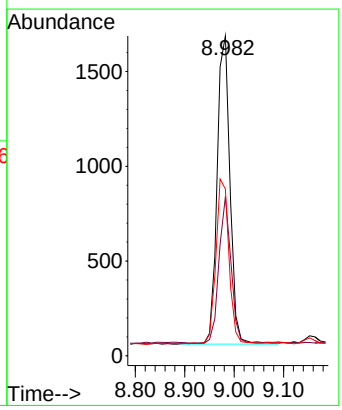


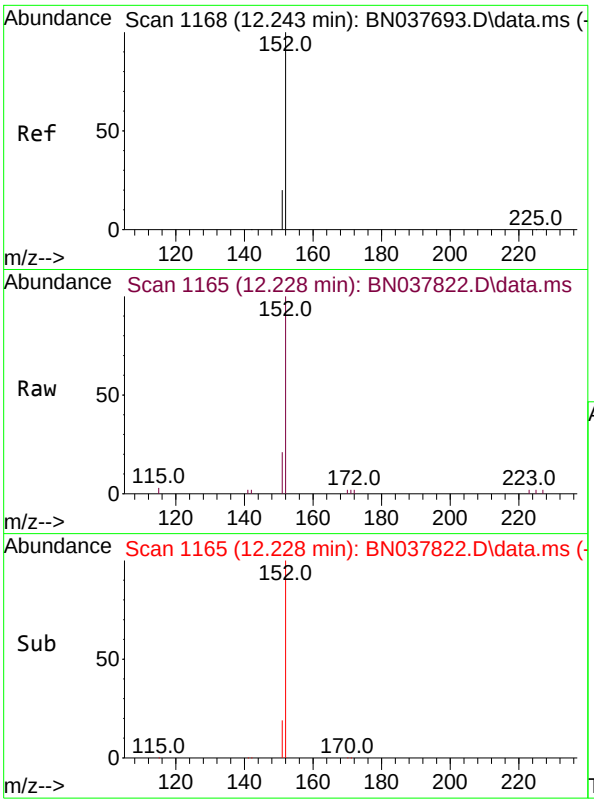


#8
Nitrobenzene-d5
Concen: 0.321 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion: 82 Resp: 2947

Ion	Ratio	Lower	Upper
82	100		
128	49.8	38.3	57.5
54	52.1	41.4	62.2



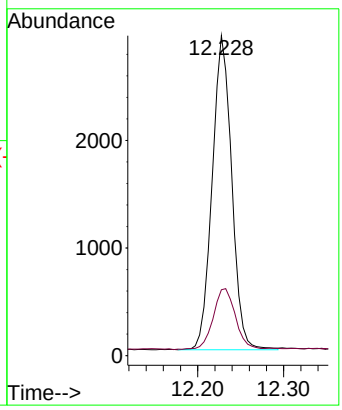


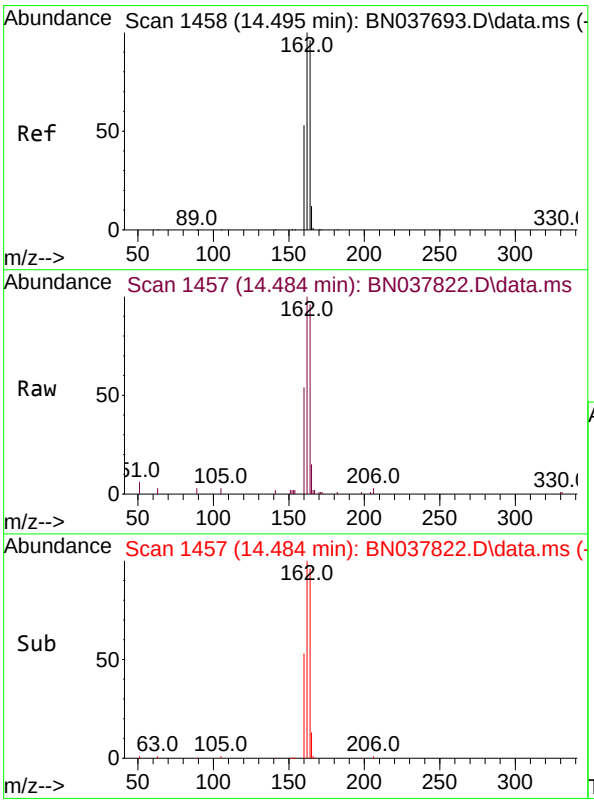
#11
2-Methylnaphthalene-d10
Concen: 0.277 ng
RT: 12.228 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

Tgt Ion:152 Resp: 4608

Ion	Ratio	Lower	Upper
152	100		
151	22.3	17.0	25.6

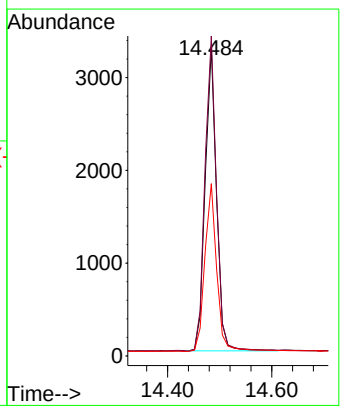


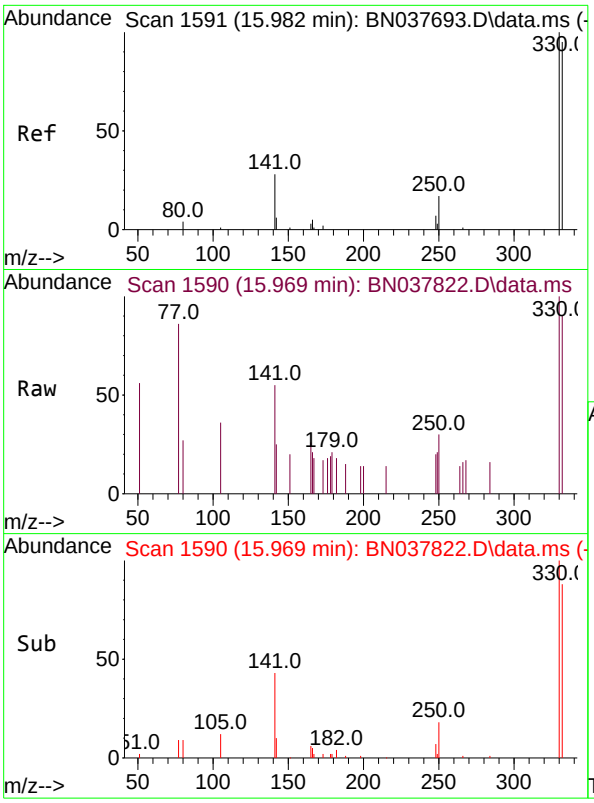


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion:164 Resp: 4964

Ion	Ratio	Lower	Upper
164	100		
162	103.7	83.1	124.7
160	55.8	44.3	66.5



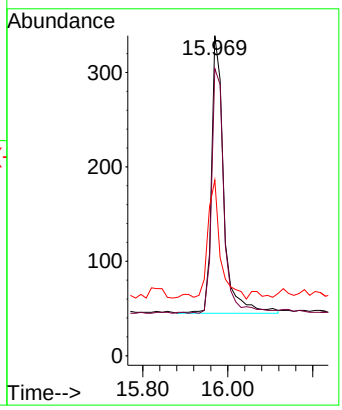


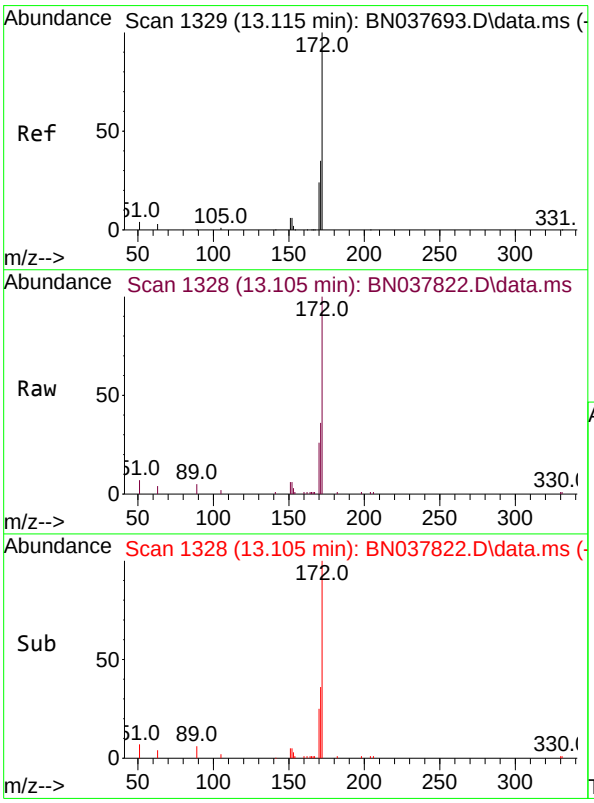
#14
2,4,6-Tribromophenol
Concen: 0.452 ng
RT: 15.969 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

Tgt Ion:330 Resp: 585

Ion	Ratio	Lower	Upper
330	100		
332	89.2	75.3	112.9
141	43.9	35.0	52.4

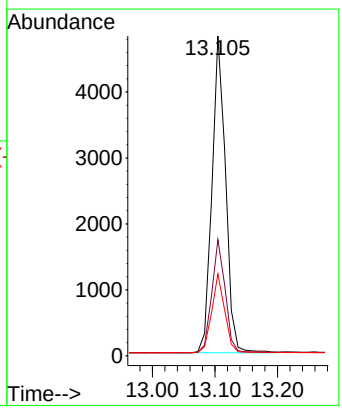


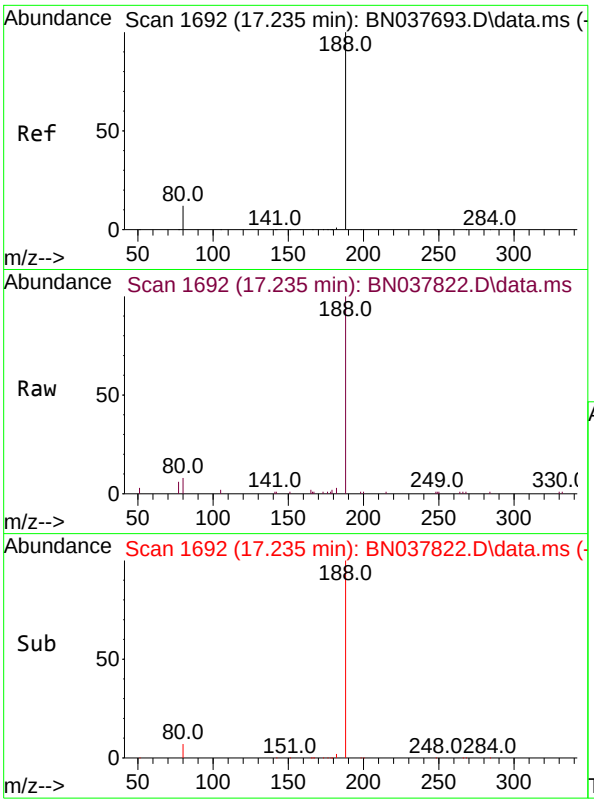


#15
2-Fluorobiphenyl
Concen: 0.351 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion:172 Resp: 7279

Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.6	43.0
170	25.6	19.8	29.8



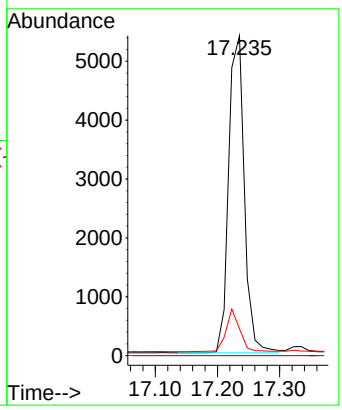


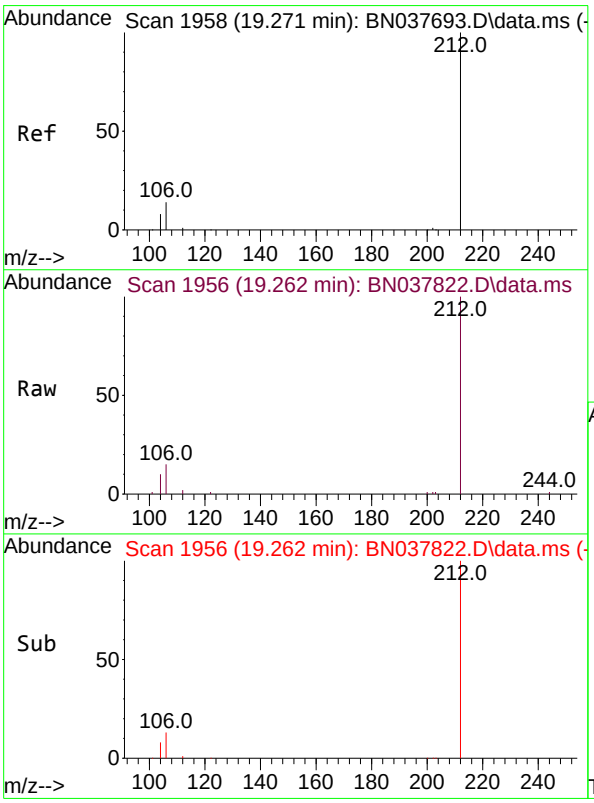
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

Tgt Ion:188 Resp: 9435

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	10.6	15.8#

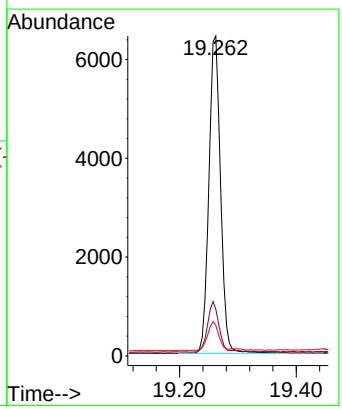


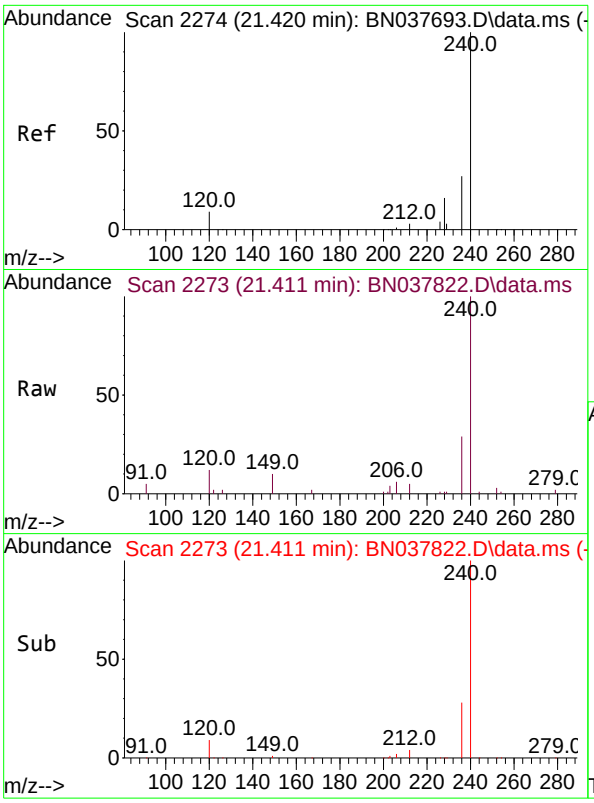


#27
Fluoranthene-d10
Concen: 0.376 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion:212 Resp: 8902

Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.2	18.2
104	8.6	6.9	10.3



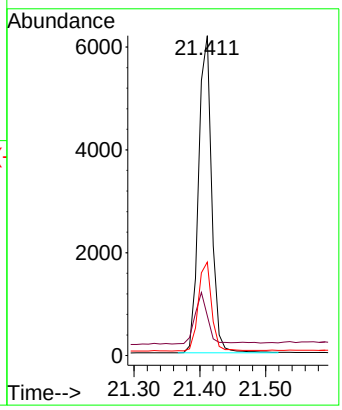


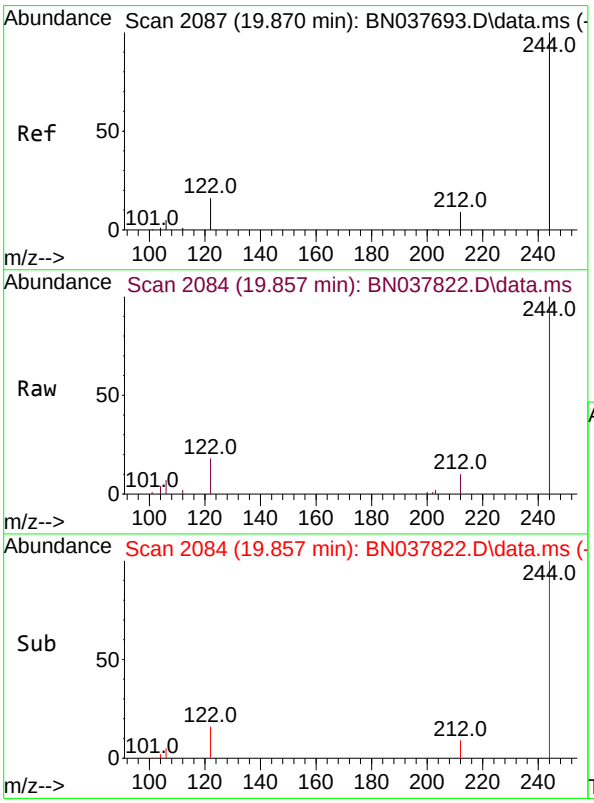
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

Tgt Ion:240 Resp: 8486

Ion	Ratio	Lower	Upper
240	100		
120	12.4	9.2	13.8
236	29.2	22.6	33.8

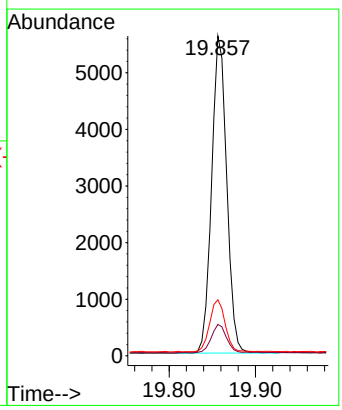


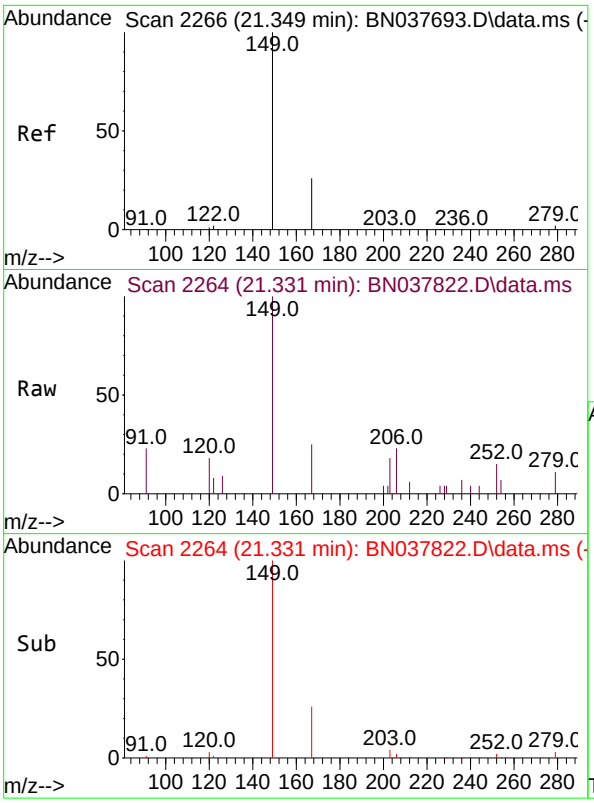


#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion:244 Resp: 6782

Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.5	11.3
122	17.5	13.2	19.8



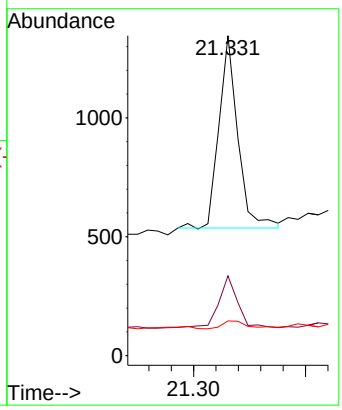


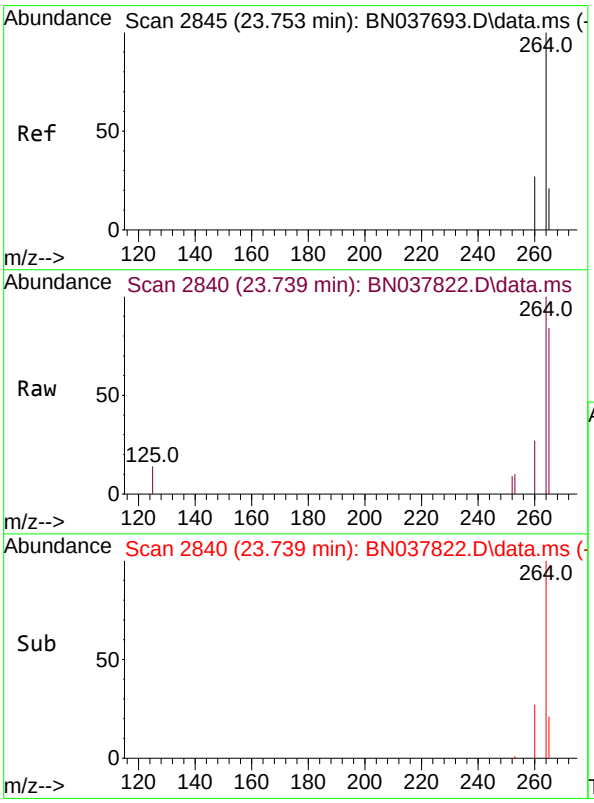
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.108 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

Tgt Ion:149 Resp: 945

Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.8	31.2
279	5.1	3.3	4.9#

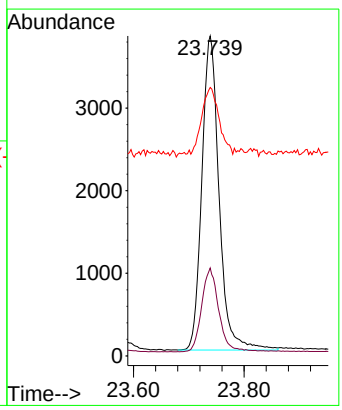




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion:264 Resp: 8219

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.8	32.8
265	83.9	39.4	59.2#



Raw Data: **BN037851.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D2-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-24DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037851.D	2	09/16/25 09:39	09/22/25 11:31	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.50	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		89%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		93%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5950	7.826				
1146-65-2	Naphthalene-d8	15400	10.626				
15067-26-2	Acenaphthene-d10	6320	14.484				
1517-22-2	Phenanthrene-d10	11500	17.223				
1719-03-5	Chrysene-d12	10100	21.402				
1520-96-3	Perylene-d12	9650	23.736				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037851.D
Acq On : 22 Sep 2025 11:31
Operator : RC/JU
Sample : Q3097-24DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

Quant Time: Sep 22 12:11:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

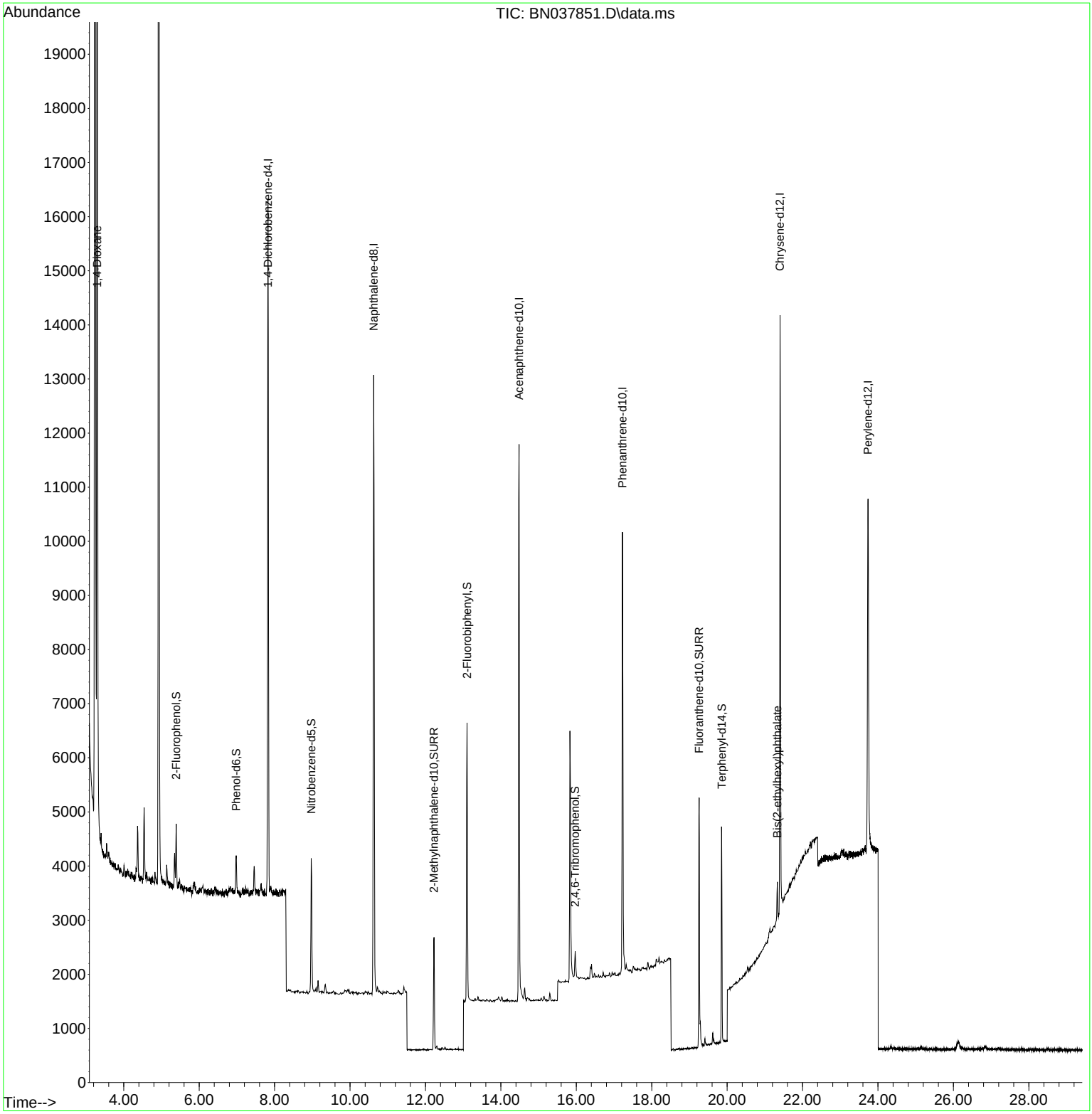
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	5950	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	15397	0.400	ng	-0.02
13) Acenaphthene-d10	14.484	164	6317	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	11463	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	10054	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	9647	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	889	0.065	ng	0.00
5) Phenol-d6	6.981	99	658	0.037	ng	0.00
8) Nitrobenzene-d5	8.971	82	2011	0.179	ng	-0.02
11) 2-Methylnaphthalene-d10	12.228	152	2884	0.141	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	360	0.218	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	4578	0.173	ng	-0.01
27) Fluoranthene-d10	19.257	212	5111	0.178	ng	-0.01
31) Terphenyl-d14	19.856	244	3791	0.186	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	20276	3.272	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	700	0.067	ng #	96

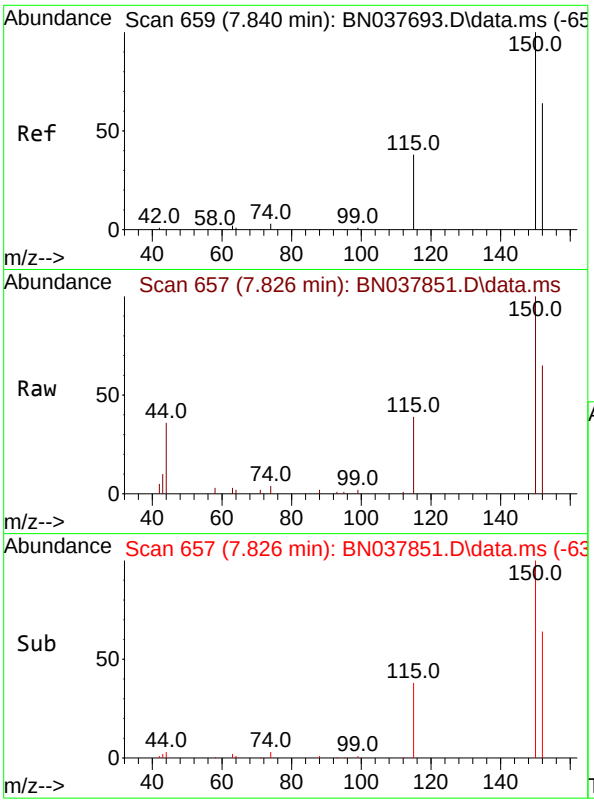
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037851.D
Acq On : 22 Sep 2025 11:31
Operator : RC/JU
Sample : Q3097-24DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

Quant Time: Sep 22 12:11:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



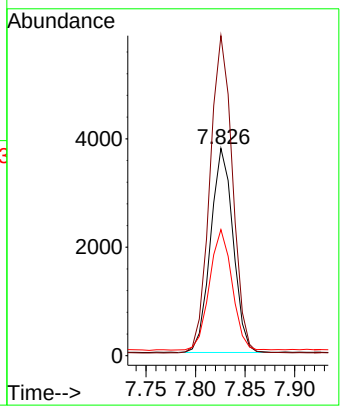


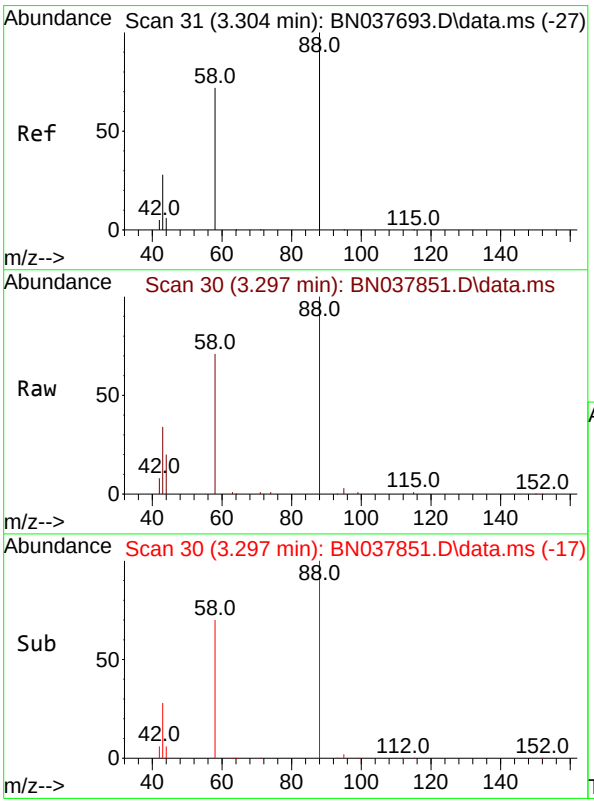
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

Tgt Ion:152 Resp: 5950

Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.5	186.7
115	60.8	49.2	73.8

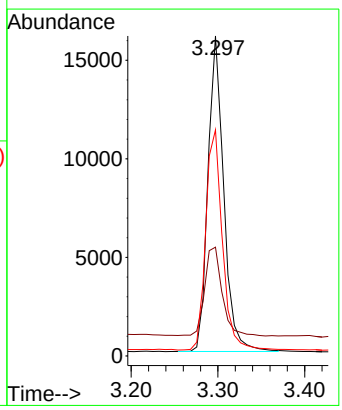


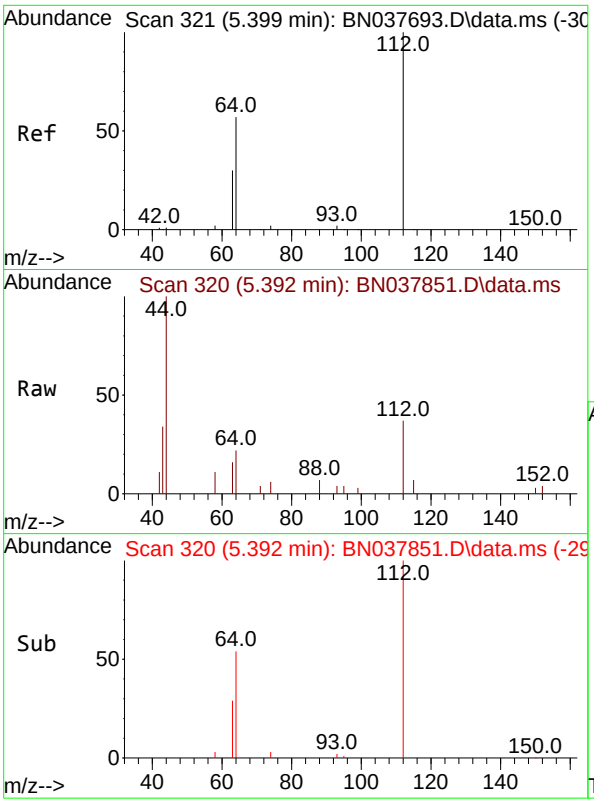


#2
1,4-Dioxane
Concen: 3.272 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion: 88 Resp: 20276

Ion	Ratio	Lower	Upper
88	100		
43	31.3	26.8	40.2
58	73.7	61.9	92.9



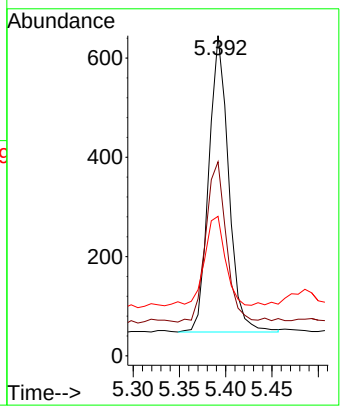


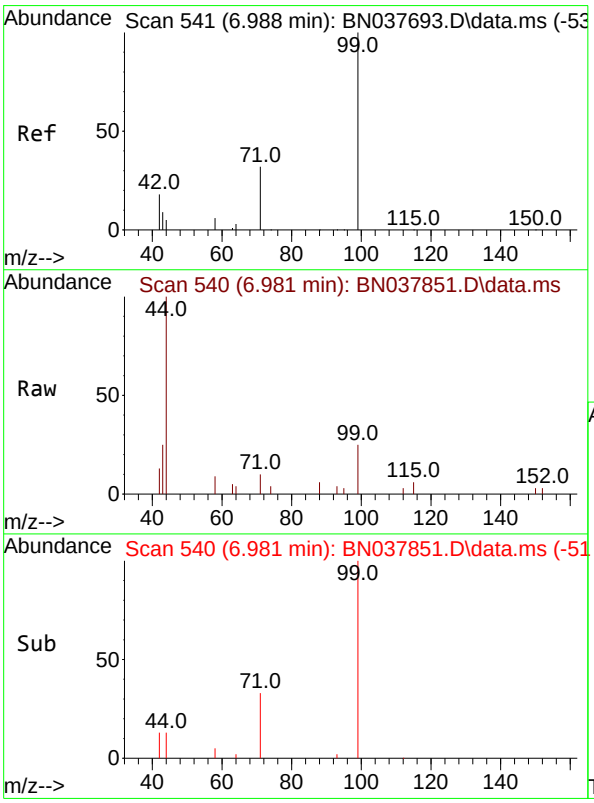
#4
2-Fluorophenol
Concen: 0.065 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

Tgt Ion:112 Resp: 889

Ion	Ratio	Lower	Upper
112	100		
64	55.8	44.9	67.3
63	33.4	24.7	37.1

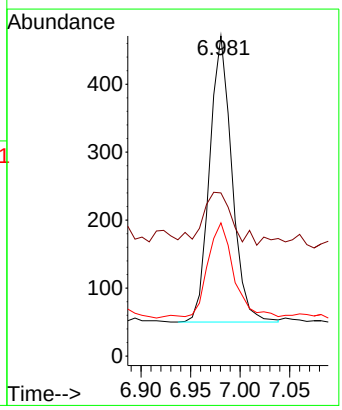


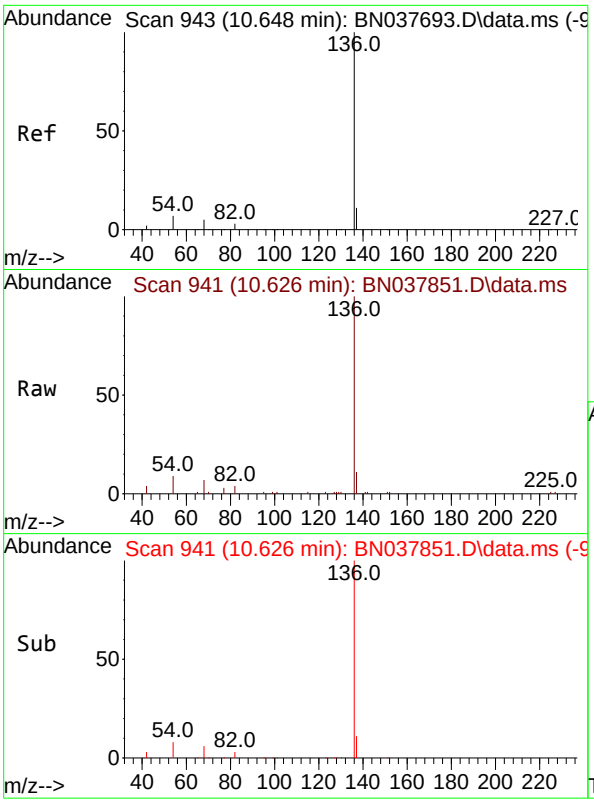


#5
Phenol-d6
Concen: 0.037 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion: 99 Resp: 658

Ion	Ratio	Lower	Upper
99	100		
42	24.8	16.6	24.8
71	38.9	26.7	40.1



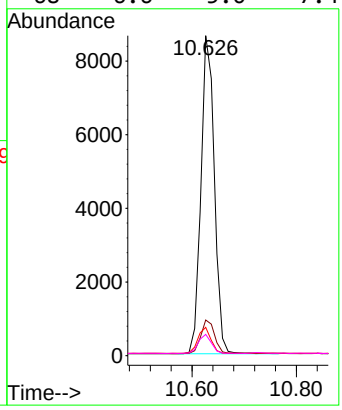


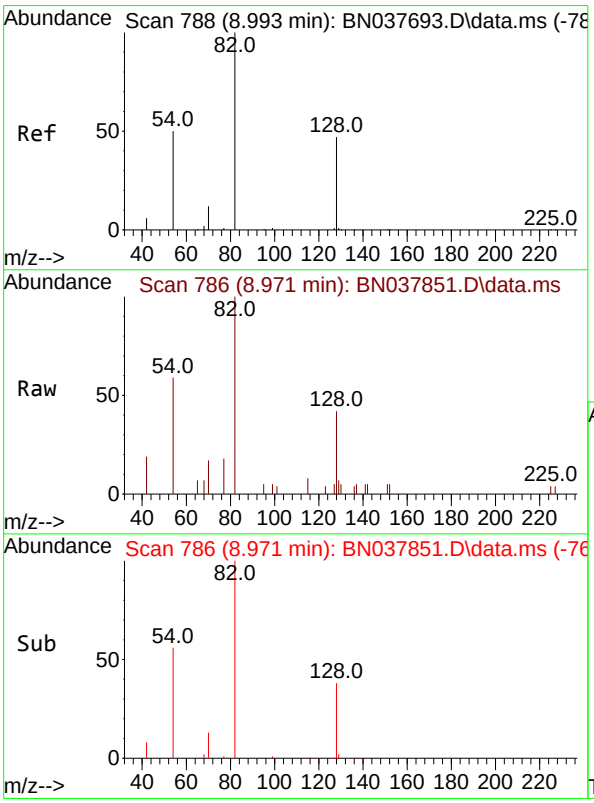
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

Tgt Ion:136 Resp: 15397

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	8.8	6.3	9.5
68	6.6	5.0	7.4

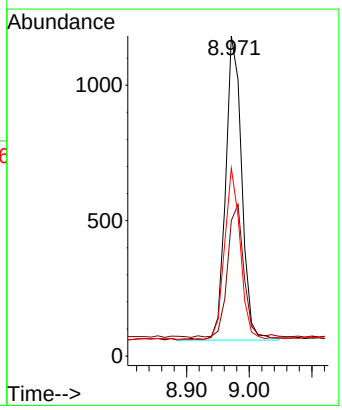


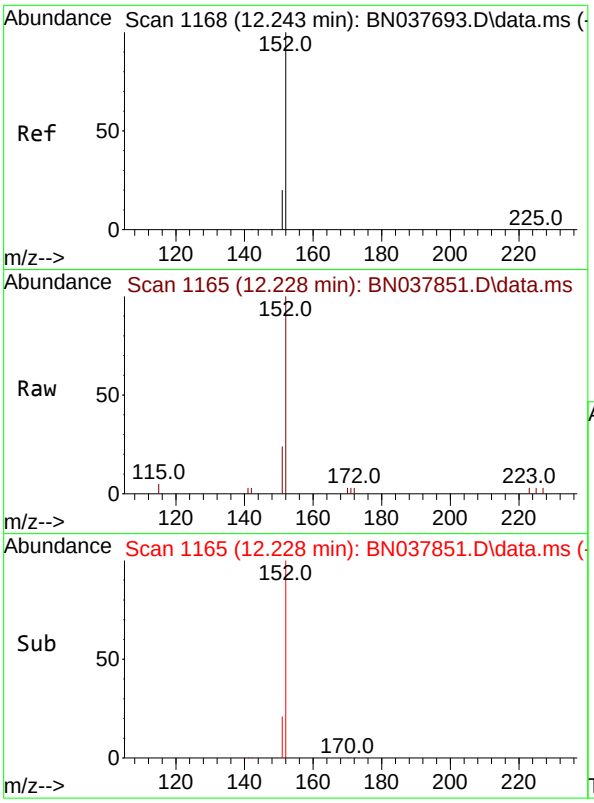


#8
Nitrobenzene-d5
Concen: 0.179 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.021 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion: 82 Resp: 2011

Ion	Ratio	Lower	Upper
82	100		
128	42.3	38.3	57.5
54	58.7	41.4	62.2



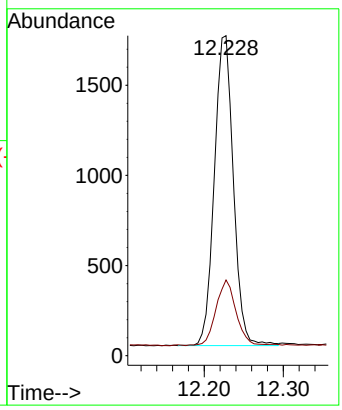


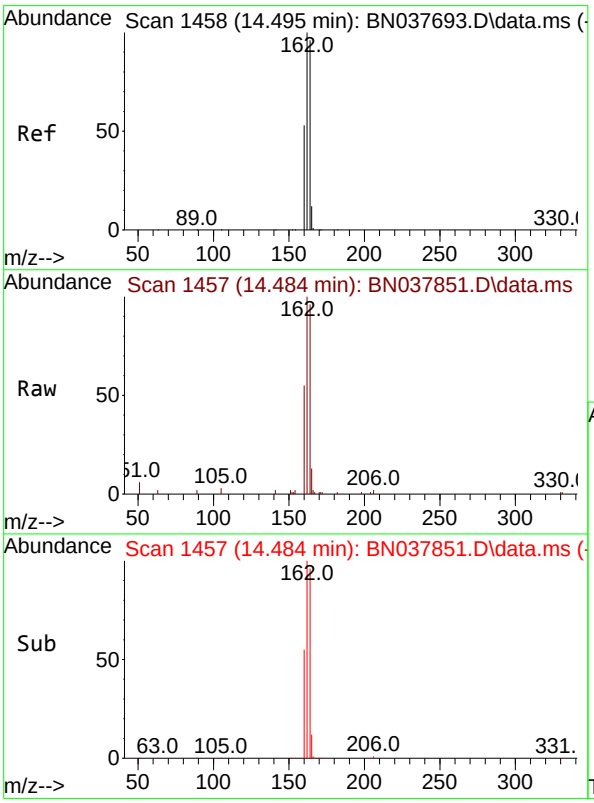
#11
2-Methylnaphthalene-d10
Concen: 0.141 ng
RT: 12.228 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

Tgt Ion:152 Resp: 2884

Ion	Ratio	Lower	Upper
152	100		
151	22.3	17.0	25.6

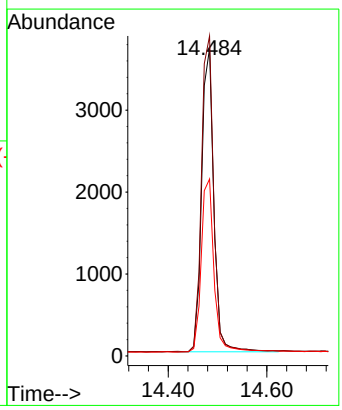


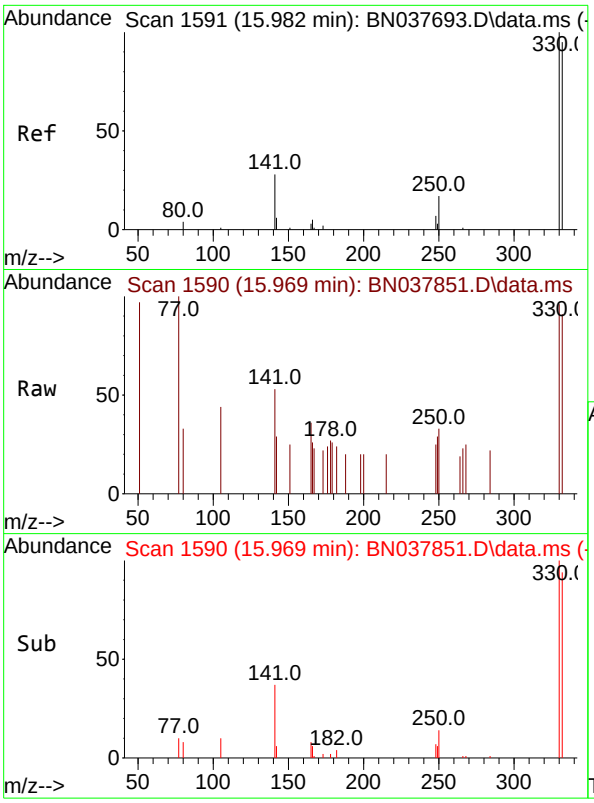


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion:164 Resp: 6317

Ion	Ratio	Lower	Upper
164	100		
162	104.1	83.1	124.7
160	57.5	44.3	66.5



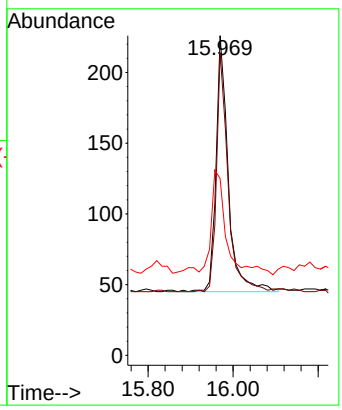


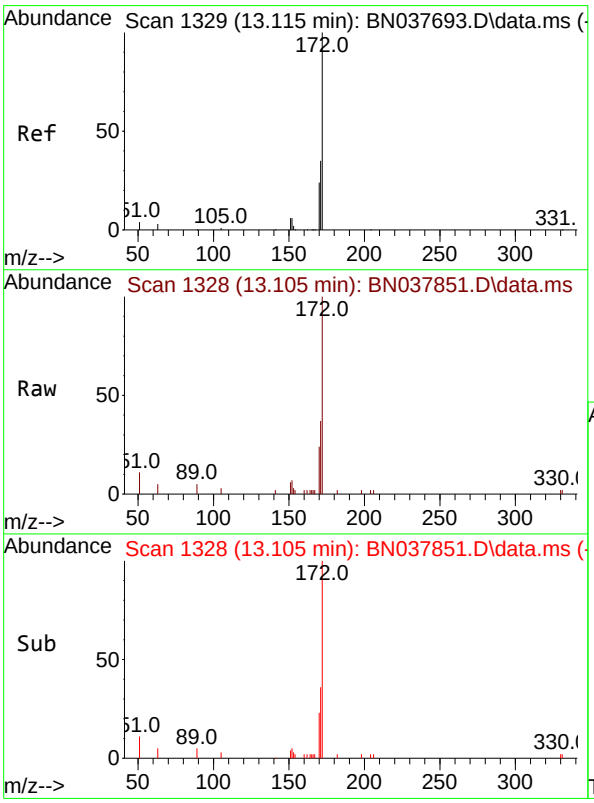
#14
2,4,6-Tribromophenol
Concen: 0.218 ng
RT: 15.969 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

Tgt Ion:330 Resp: 360

Ion	Ratio	Lower	Upper
330	100		
332	88.3	75.3	112.9
141	50.3	35.0	52.4

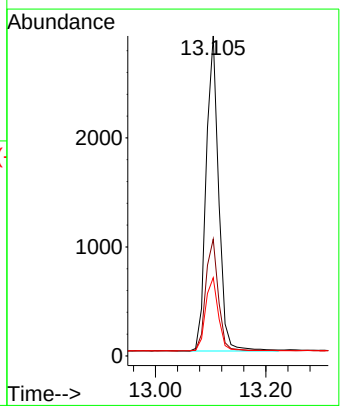


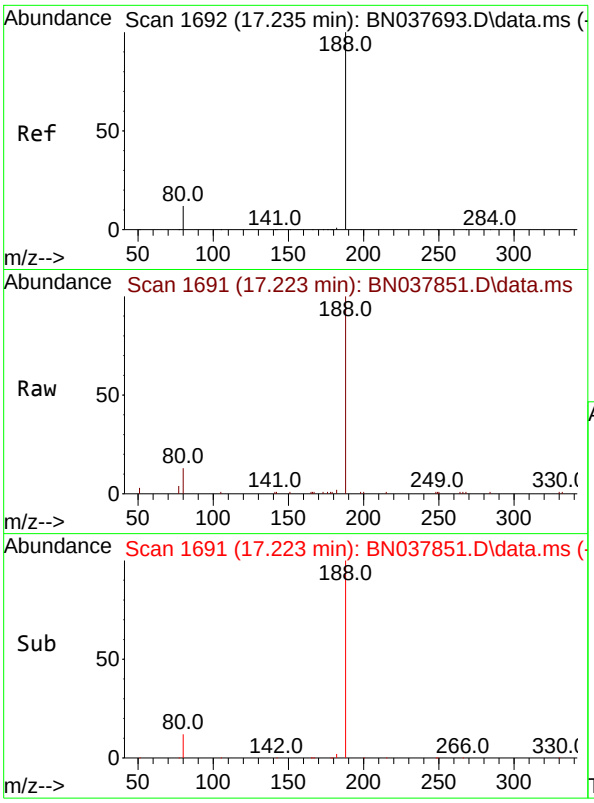


#15
2-Fluorobiphenyl
Concen: 0.173 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion:172 Resp: 4578

Ion	Ratio	Lower	Upper
172	100		
171	36.5	28.6	43.0
170	24.4	19.8	29.8



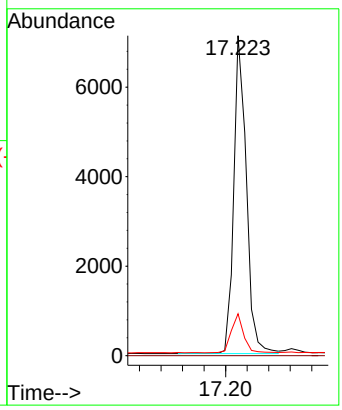


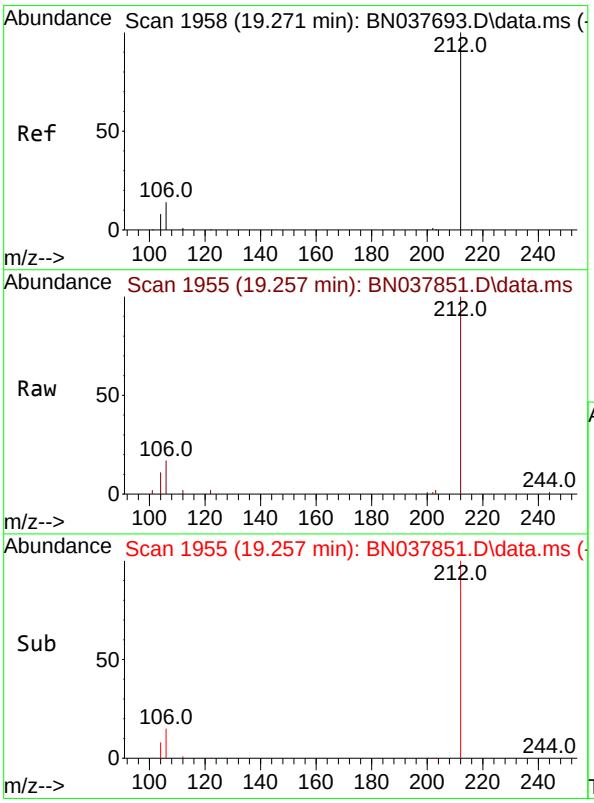
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

Tgt Ion:188 Resp: 11463

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.1	10.6	15.8

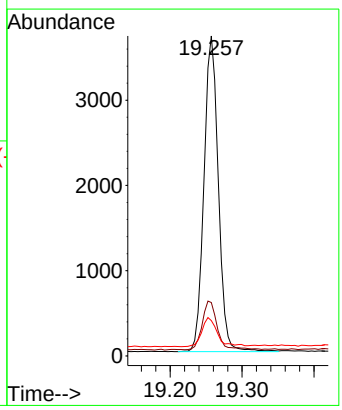


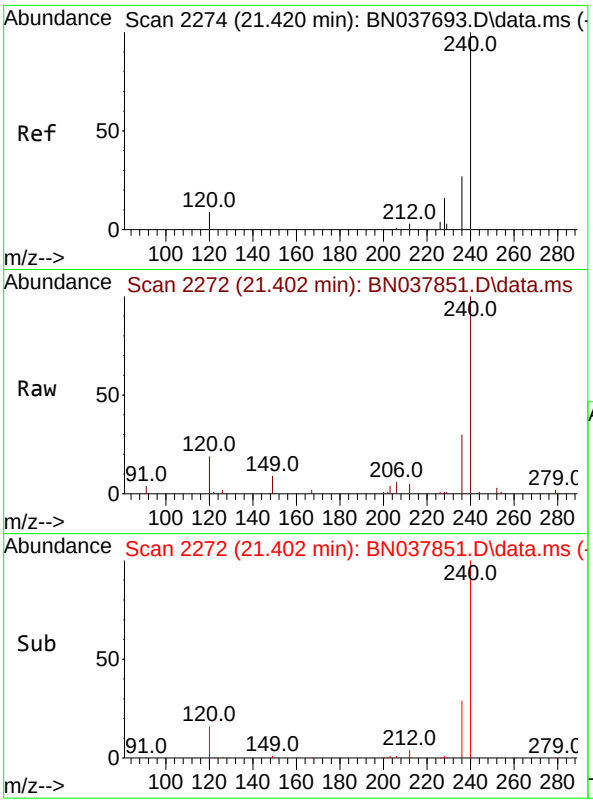


#27
Fluoranthene-d10
Concen: 0.178 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion:212 Resp: 5111

Ion	Ratio	Lower	Upper
212	100		
106	16.2	12.2	18.2
104	10.0	6.9	10.3



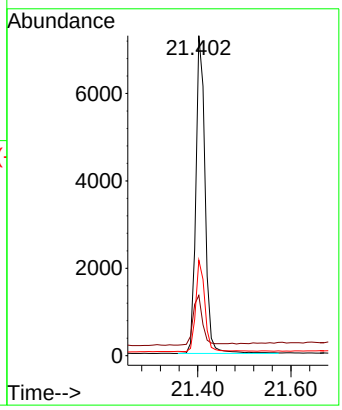


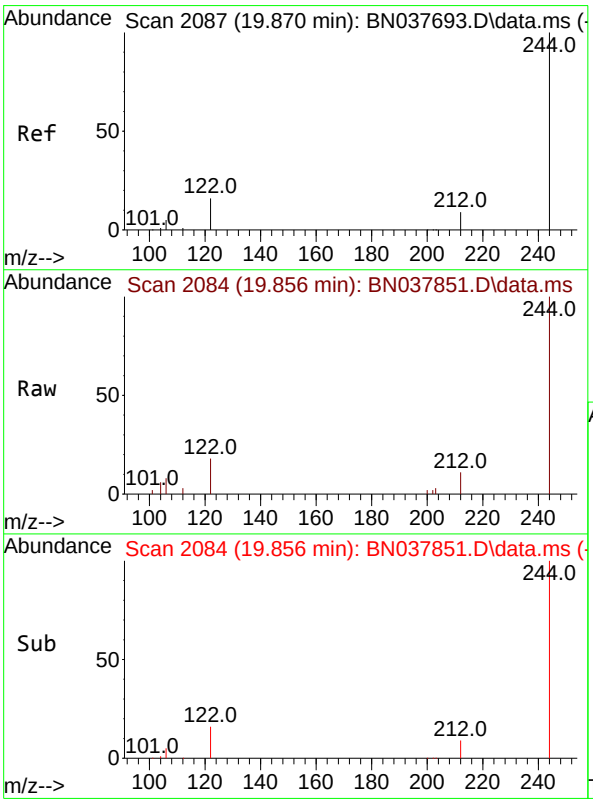
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

Tgt Ion:240 Resp: 10054

Ion	Ratio	Lower	Upper
240	100		
120	18.8	9.2	13.8#
236	29.8	22.6	33.8

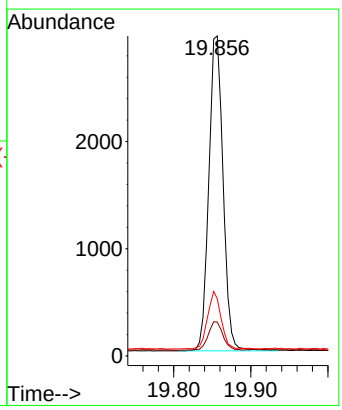


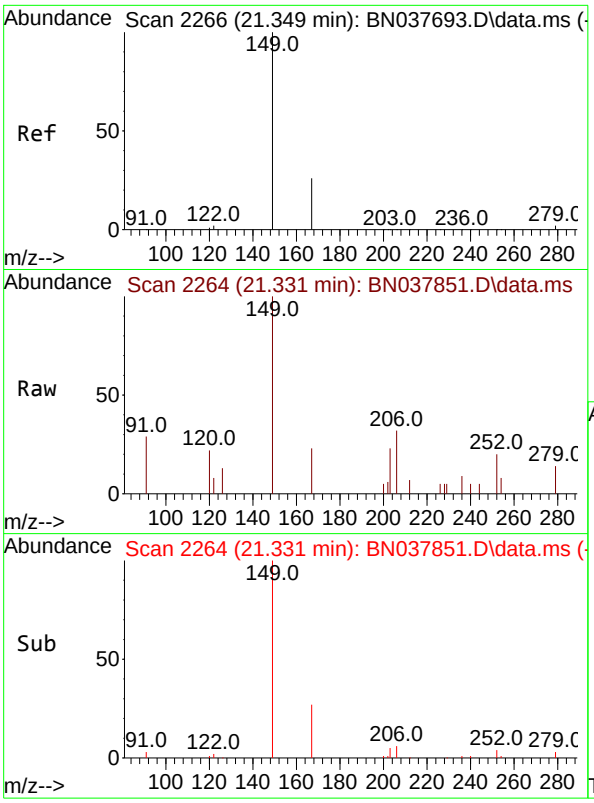


#31
Terphenyl-d14
Concen: 0.186 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion:244 Resp: 3791

Ion	Ratio	Lower	Upper
244	100		
212	10.6	7.5	11.3
122	17.9	13.2	19.8



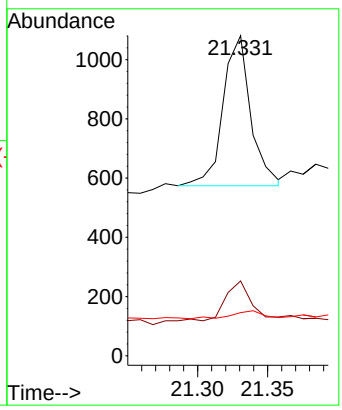


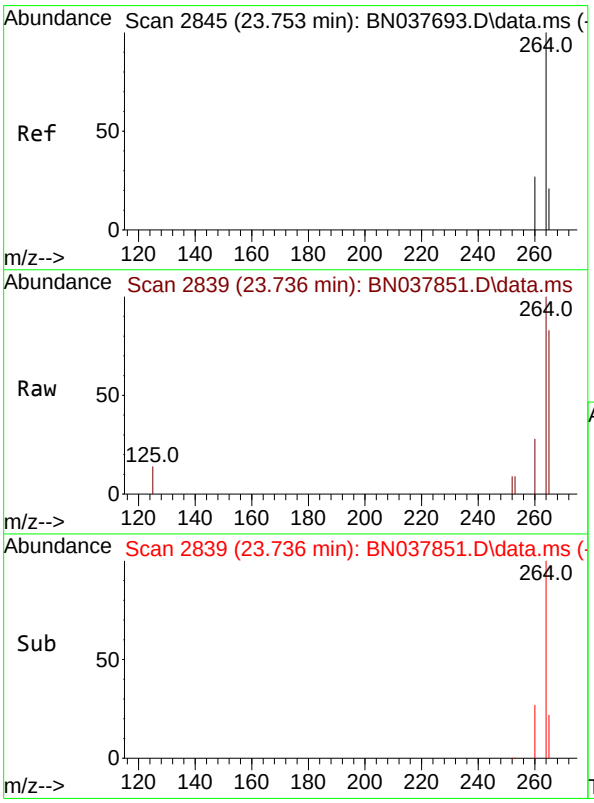
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.067 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

Tgt Ion:149 Resp: 700

Ion	Ratio	Lower	Upper
149	100		
167	28.0	20.8	31.2
279	6.0	3.3	4.9#

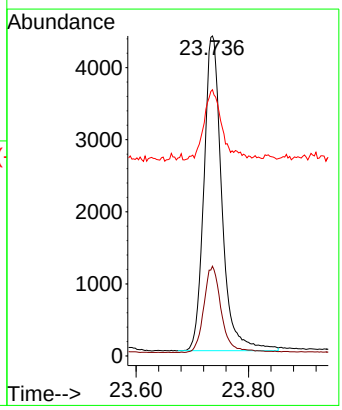




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. -0.018 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion:264 Resp: 9647

Ion	Ratio	Lower	Upper
264	100		
260	28.0	21.8	32.8
265	83.2	39.4	59.2#



Raw Data: **BN037823.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D3-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-25	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037823.D	1	09/16/25 09:39	09/19/25 20:24	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.70	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		102%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5220	7.832				
1146-65-2	Naphthalene-d8	13500	10.637				
15067-26-2	Acenaphthene-d10	5080	14.484				
1517-22-2	Phenanthrene-d10	9520	17.223				
1719-03-5	Chrysene-d12	8590	21.402				
1520-96-3	Perylene-d12	8160	23.735				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037823.D
Acq On : 19 Sep 2025 20:24
Operator : RC/JU
Sample : Q3097-25
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

Quant Time: Sep 19 23:56:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

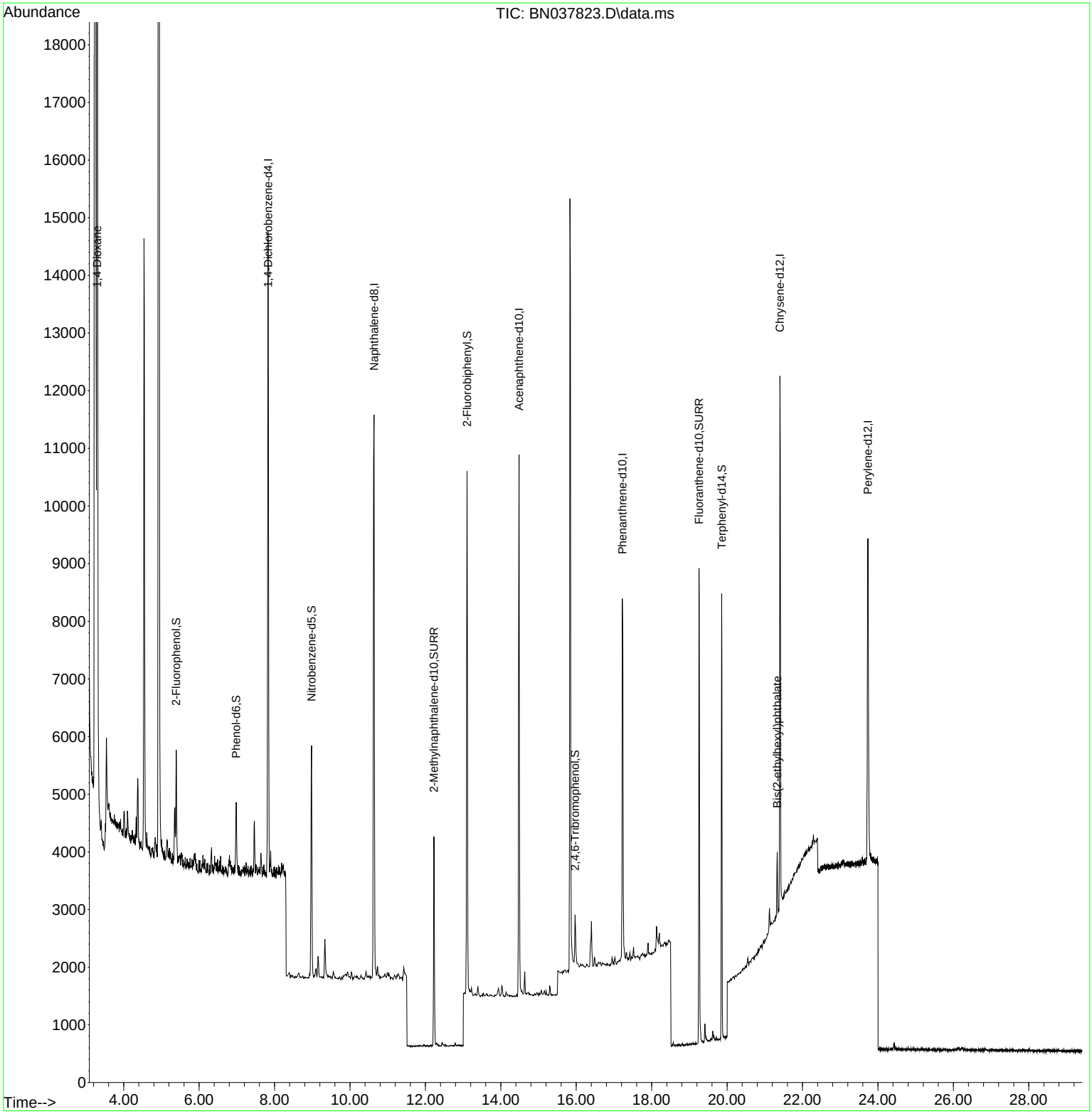
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	5215	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	13534	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	5080	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	9523	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	8588	0.400	ng	#-0.02
35) Perylene-d12	23.735	264	8162	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	1523	0.127	ng	0.00
5) Phenol-d6	6.980	99	1128	0.073	ng	0.00
8) Nitrobenzene-d5	8.982	82	3274	0.331	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	4921	0.274	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	576	0.435	ng	-0.01
15) 2-Fluorobiphenyl	13.104	172	7504	0.353	ng	-0.01
27) Fluoranthene-d10	19.257	212	8915	0.373	ng	-0.01
31) Terphenyl-d14	19.856	244	7135	0.409	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	30782	5.667	ng	95
34) Bis(2-ethylhexyl)phtha...	21.330	149	1168	0.132	ng	96

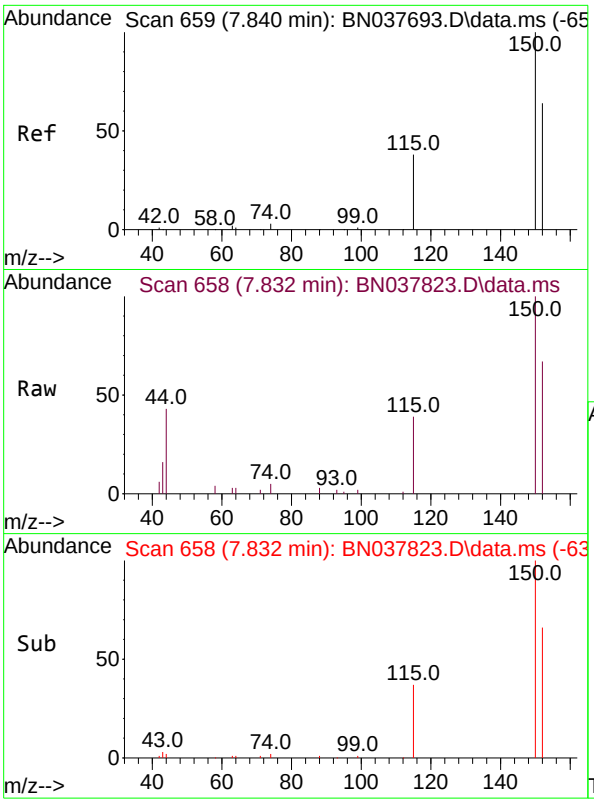
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037823.D
Acq On : 19 Sep 2025 20:24
Operator : RC/JU
Sample : Q3097-25
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

Quant Time: Sep 19 23:56:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



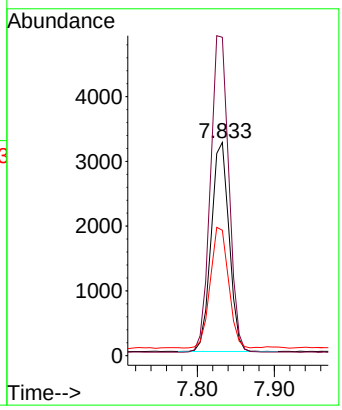


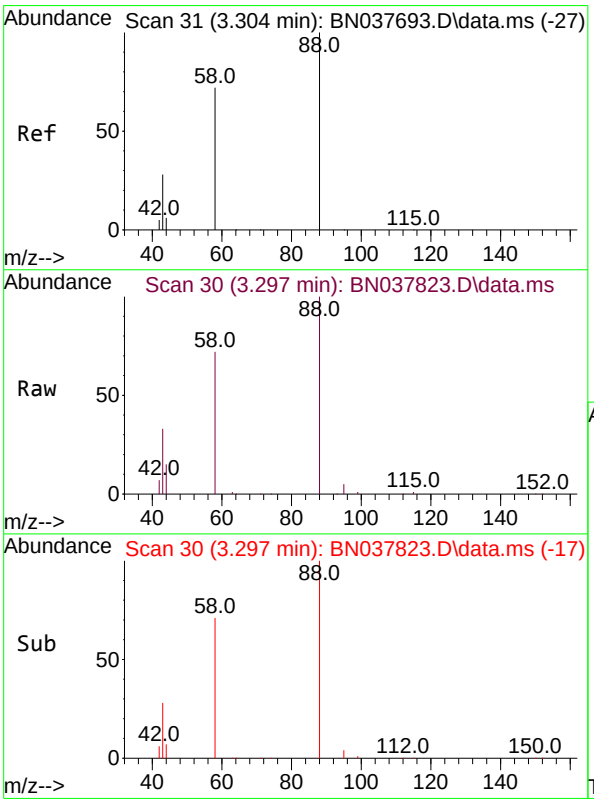
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

Tgt Ion:152 Resp: 5215

Ion	Ratio	Lower	Upper
152	100		
150	149.3	124.5	186.7
115	58.8	49.2	73.8

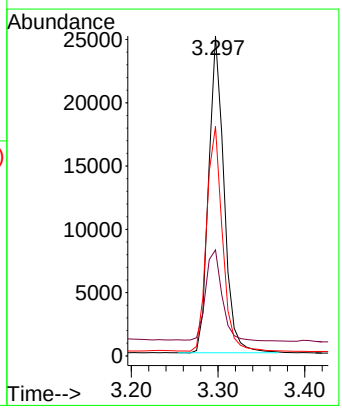


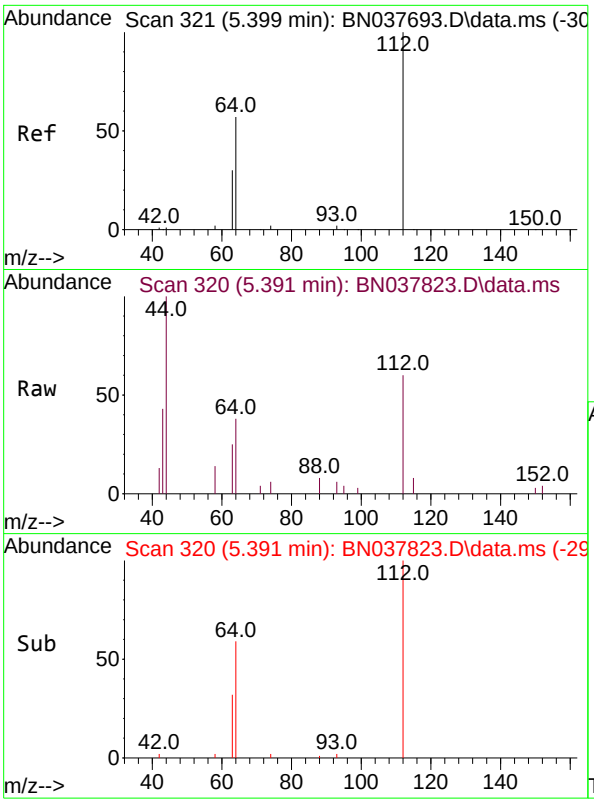


#2
1,4-Dioxane
Concen: 5.667 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.008 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Tgt Ion: 88 Resp: 30782

Ion	Ratio	Lower	Upper
88	100		
43	30.9	26.8	40.2
58	72.8	61.9	92.9



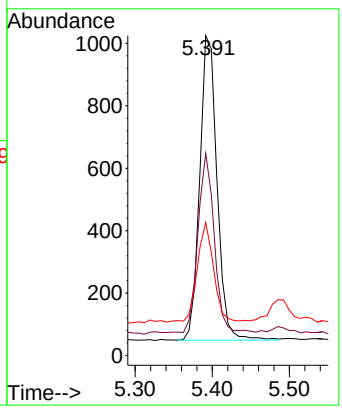


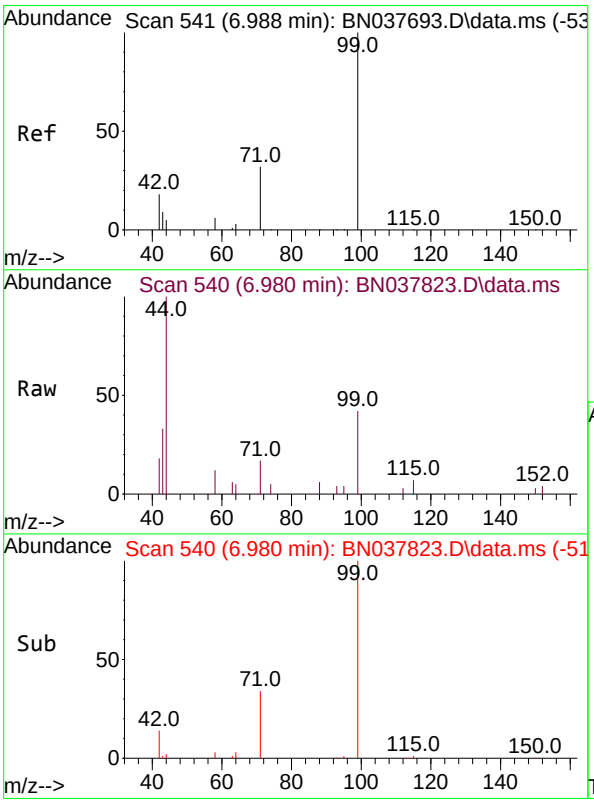
#4
2-Fluorophenol
Concen: 0.127 ng
RT: 5.391 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

Tgt Ion:112 Resp: 1523

Ion	Ratio	Lower	Upper
112	100		
64	55.2	44.9	67.3
63	31.7	24.7	37.1

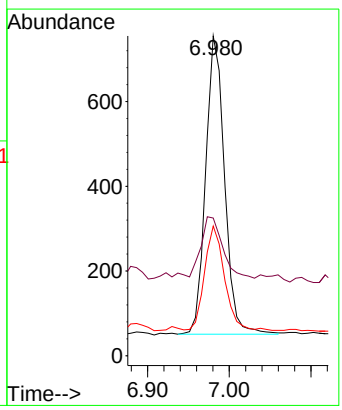


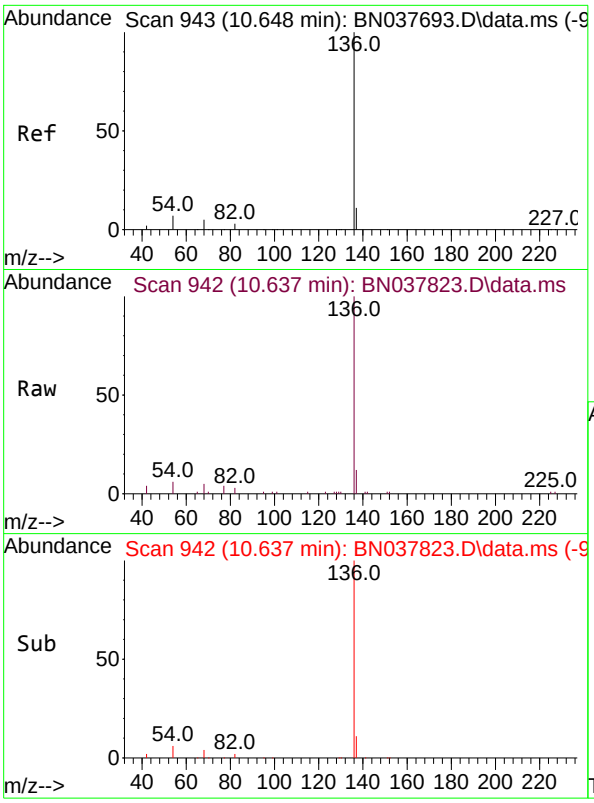


#5
Phenol-d6
Concen: 0.073 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Tgt Ion: 99 Resp: 1128

Ion	Ratio	Lower	Upper
99	100		
42	23.7	16.6	24.8
71	38.4	26.7	40.1



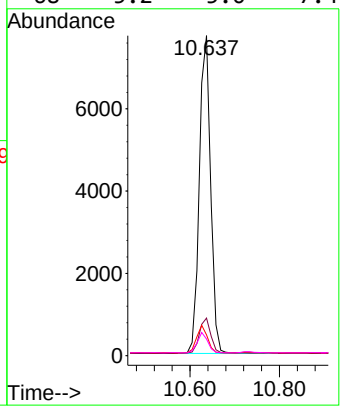


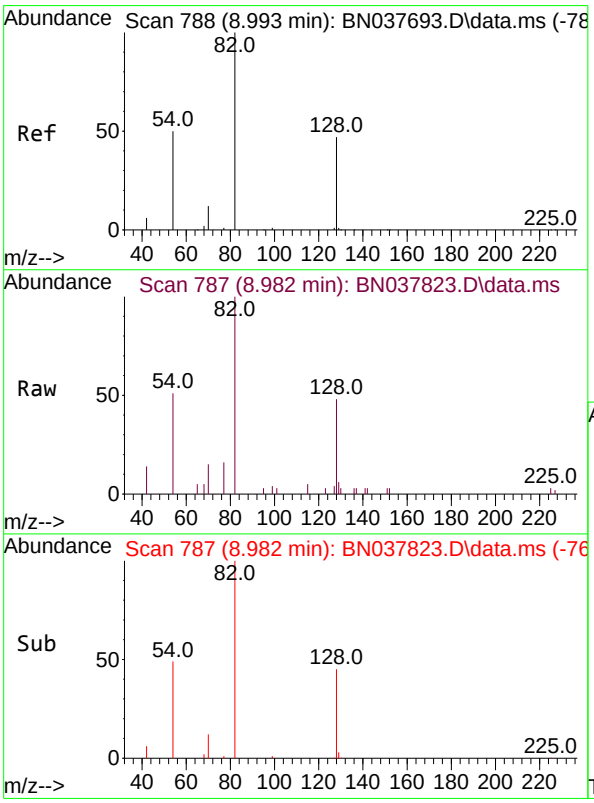
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

Tgt Ion:136 Resp: 13534

Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.1	13.7
54	6.5	6.3	9.5
68	5.2	5.0	7.4

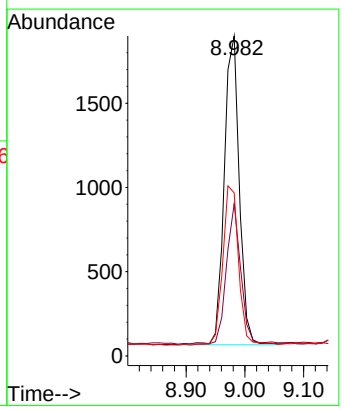


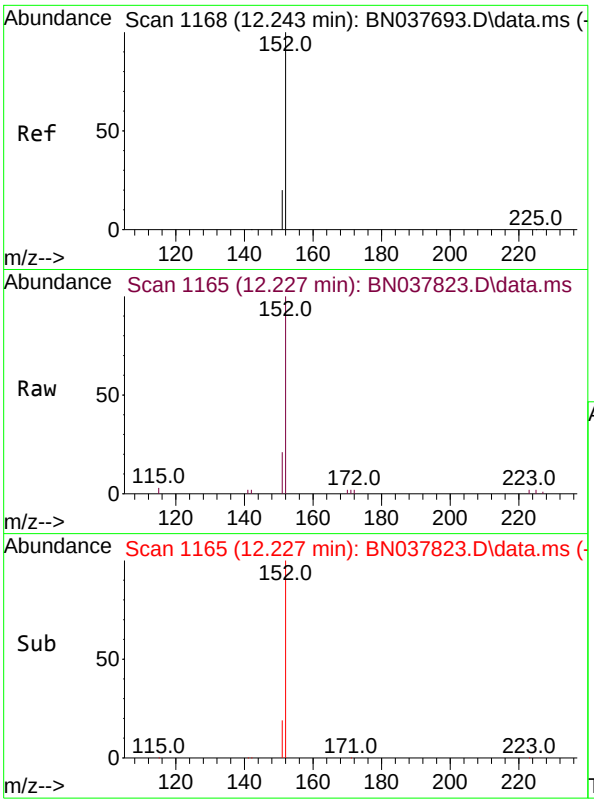


#8
Nitrobenzene-d5
Concen: 0.331 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Tgt Ion: 82 Resp: 3274

Ion	Ratio	Lower	Upper
82	100		
128	47.6	38.3	57.5
54	50.9	41.4	62.2



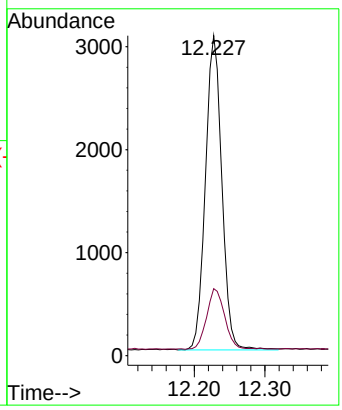


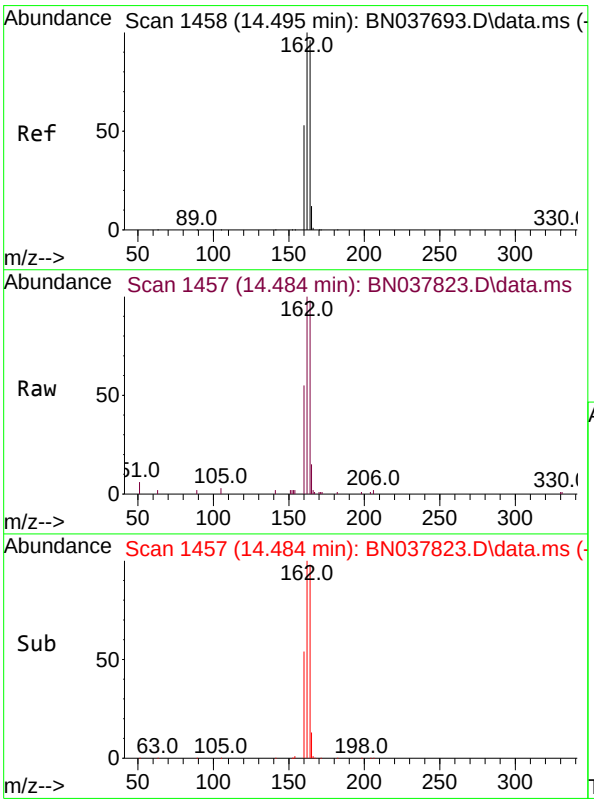
#11
2-Methylnaphthalene-d10
Concen: 0.274 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

Tgt Ion:152 Resp: 4921

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

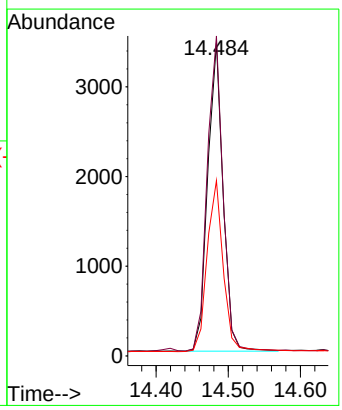


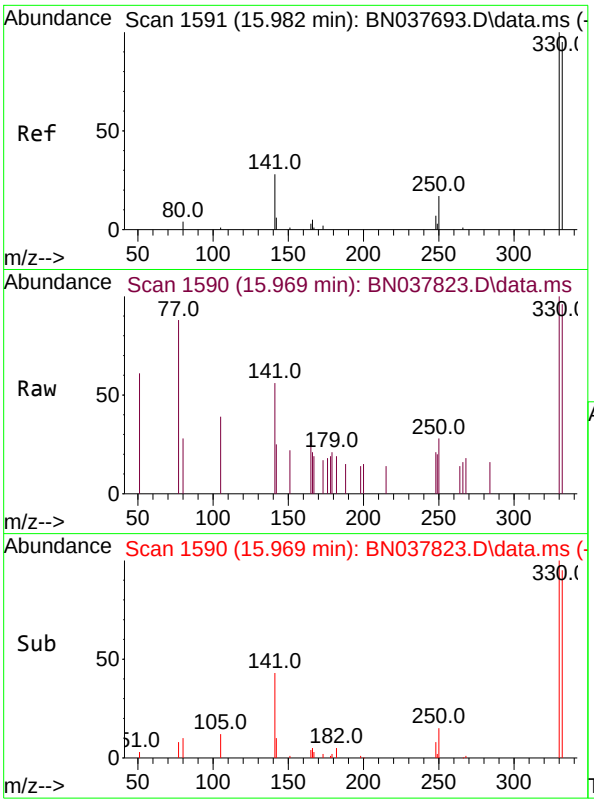


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Tgt Ion:164 Resp: 5080

Ion	Ratio	Lower	Upper
164	100		
162	102.2	83.1	124.7
160	56.0	44.3	66.5



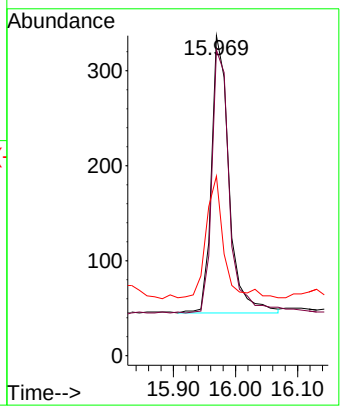


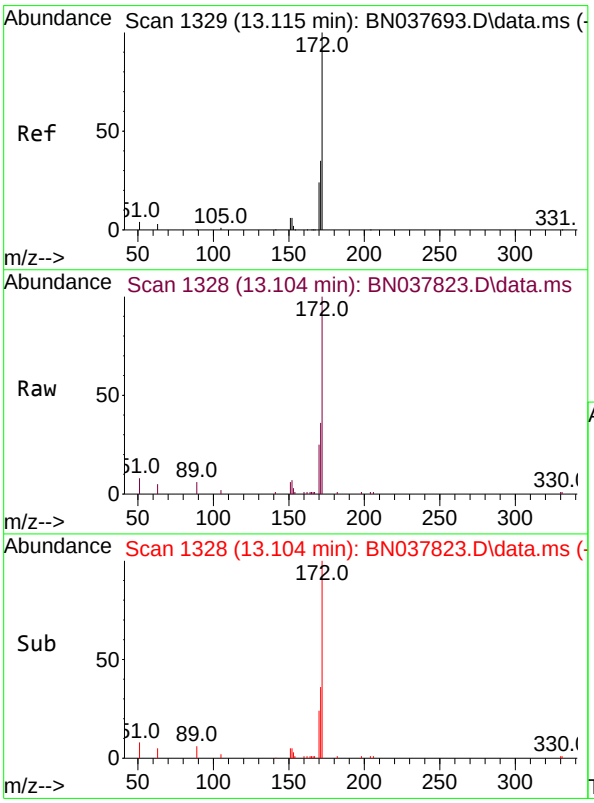
#14
2,4,6-Tribromophenol
Concen: 0.435 ng
RT: 15.969 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

Tgt Ion:330 Resp: 576

Ion	Ratio	Lower	Upper
330	100		
332	96.7	75.3	112.9
141	44.1	35.0	52.4

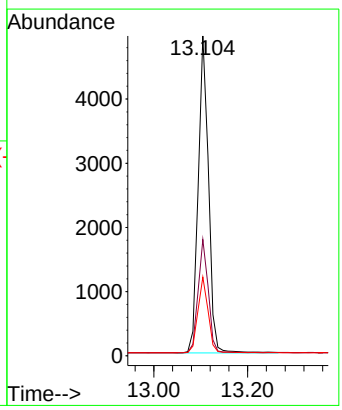


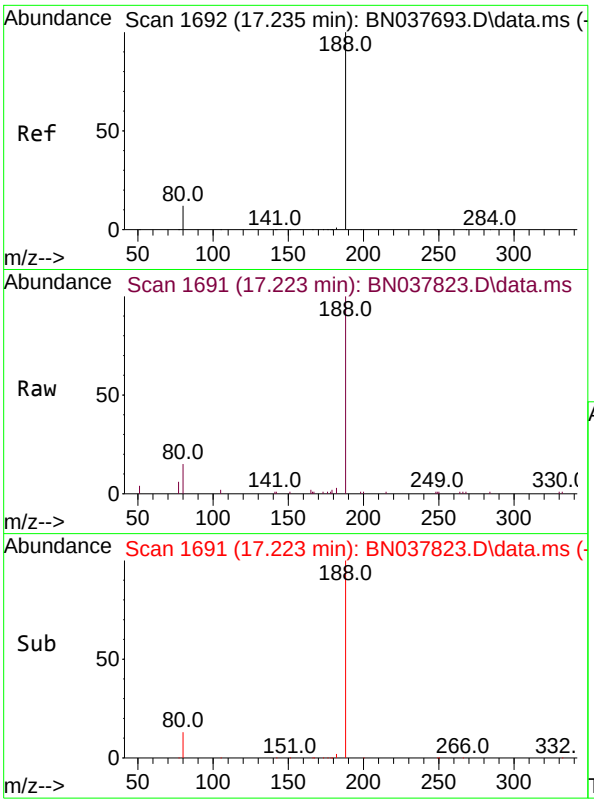


#15
2-Fluorobiphenyl
Concen: 0.353 ng
RT: 13.104 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Tgt Ion:172 Resp: 7504

Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.6	43.0
170	24.6	19.8	29.8



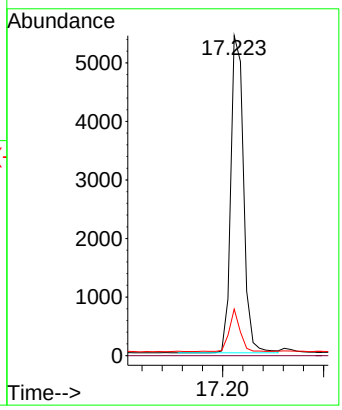


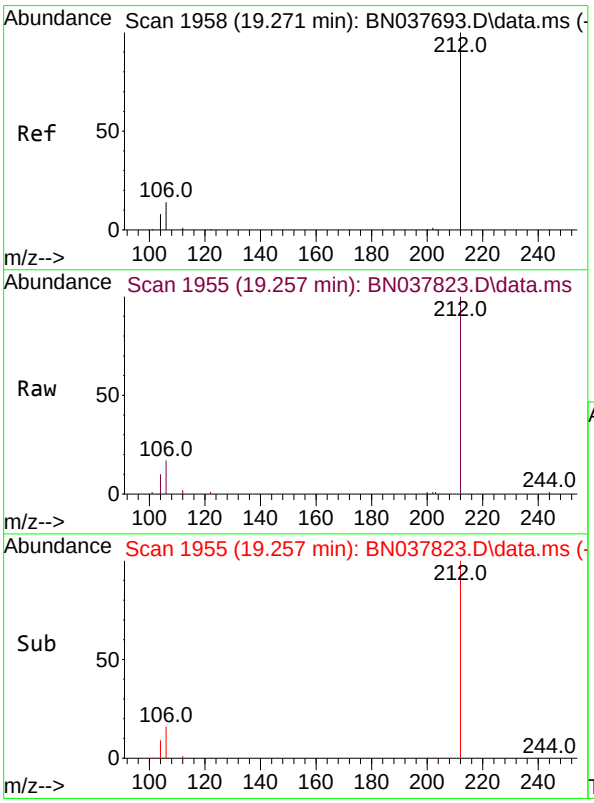
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

Tgt Ion:188 Resp: 9523

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.5	10.6	15.8

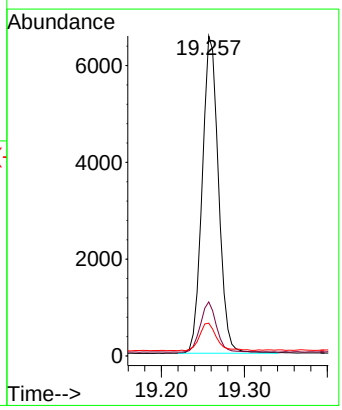


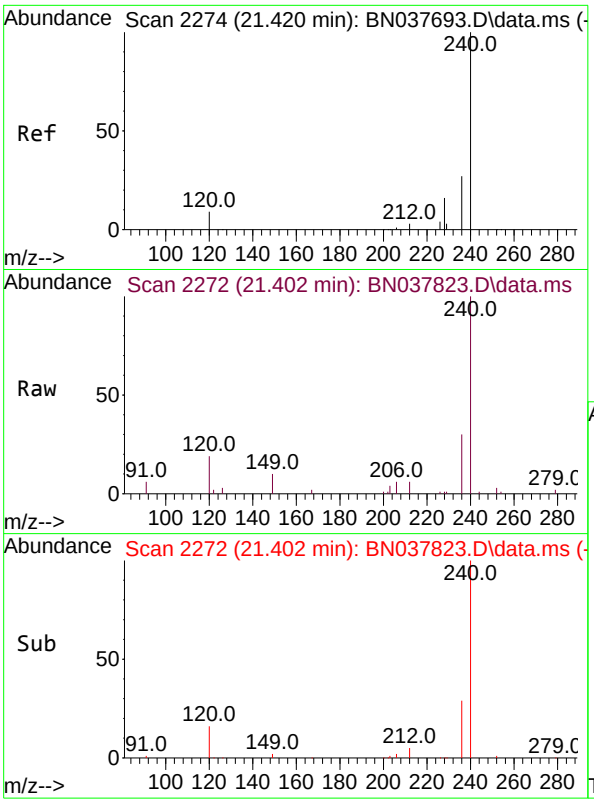


#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Tgt Ion:212 Resp: 8915

Ion	Ratio	Lower	Upper
212	100		
106	15.6	12.2	18.2
104	9.2	6.9	10.3



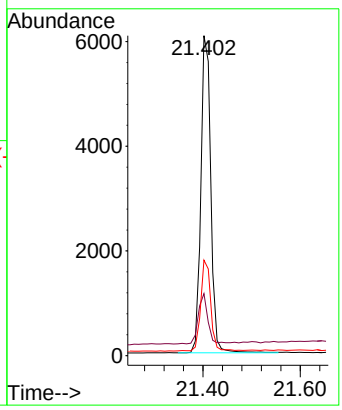


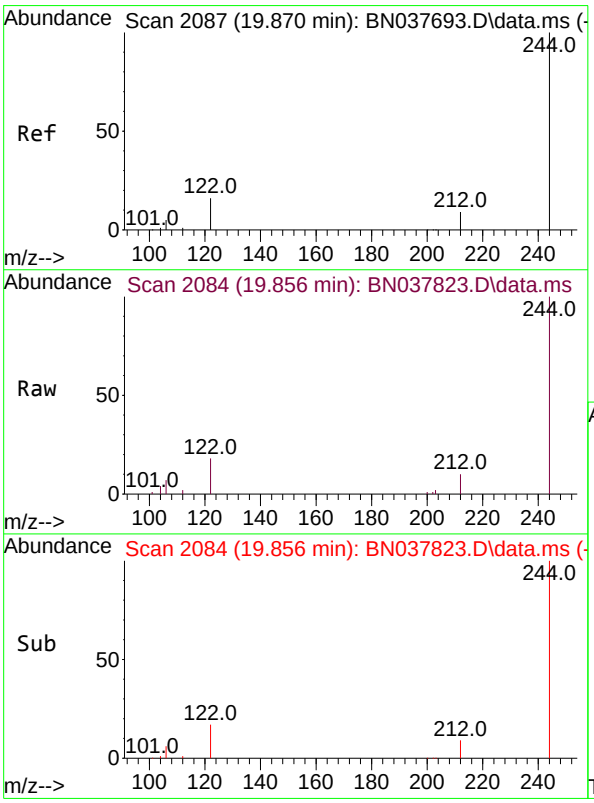
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

Tgt Ion:240 Resp: 8588

Ion	Ratio	Lower	Upper
240	100		
120	19.4	9.2	13.8#
236	29.8	22.6	33.8

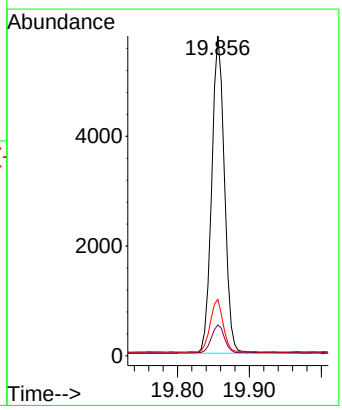


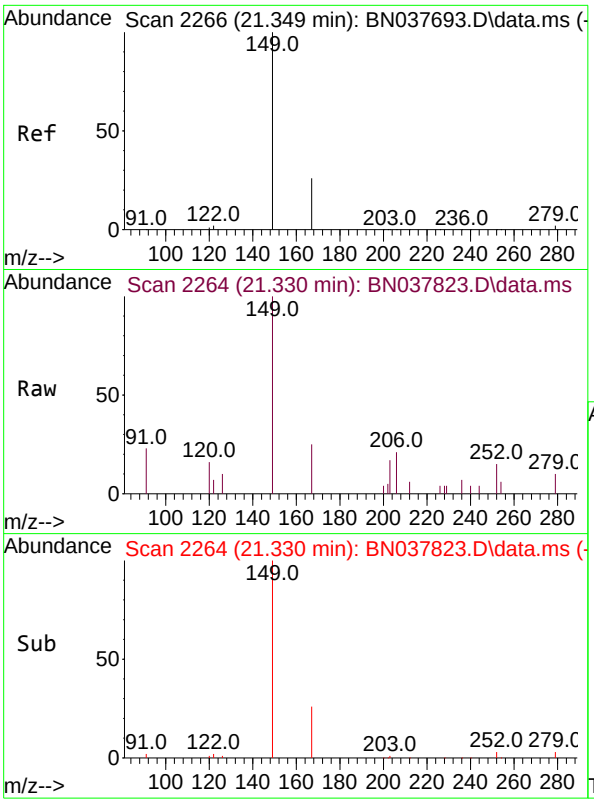


#31
Terphenyl-d14
Concen: 0.409 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Tgt Ion:244 Resp: 7135

Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.5	11.3
122	17.6	13.2	19.8



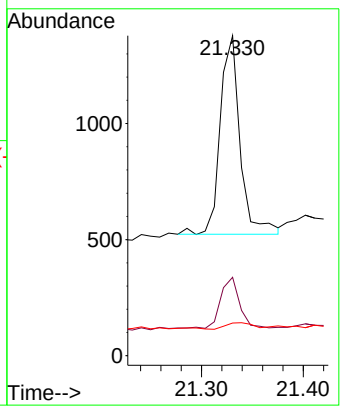


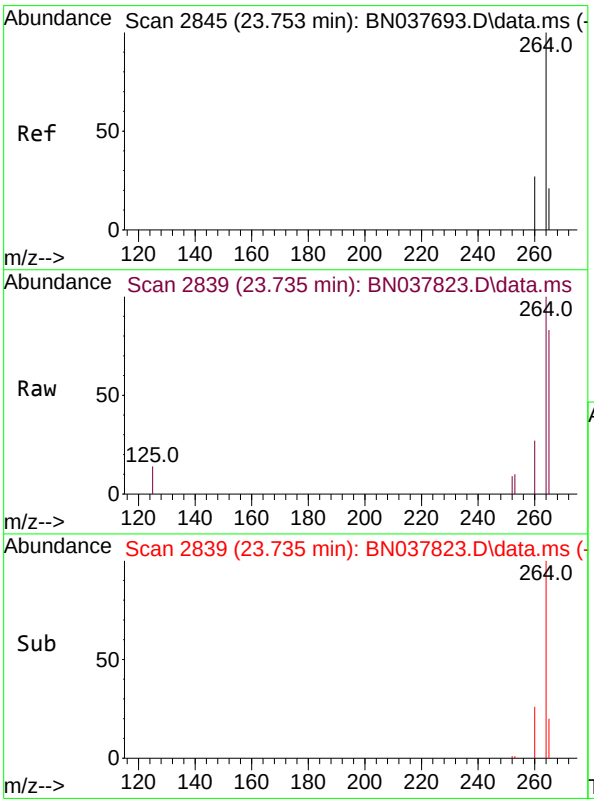
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.132 ng
RT: 21.330 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

Tgt Ion:149 Resp: 1168

Ion	Ratio	Lower	Upper
149	100		
167	23.9	20.8	31.2
279	4.9	3.3	4.9

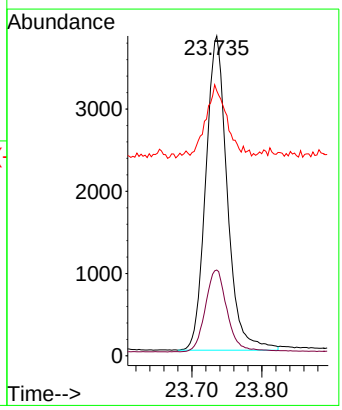




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.735 min Scan# 2839
Delta R.T. -0.018 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Tgt Ion:264 Resp: 8162

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.8	32.8
265	82.8	39.4	59.2#



Raw Data: **BN037852.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D3-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-25DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037852.D	2	09/16/25 09:39	09/22/25 12:08	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.80	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		102%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6180	7.825				
1146-65-2	Naphthalene-d8	16300	10.626				
15067-26-2	Acenaphthene-d10	6730	14.484				
1517-22-2	Phenanthrene-d10	12100	17.223				
1719-03-5	Chrysene-d12	10400	21.402				
1520-96-3	Perylene-d12	9990	23.736				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037852.D
Acq On : 22 Sep 2025 12:08
Operator : RC/JU
Sample : Q3097-25DL 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

Quant Time: Sep 22 12:41:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

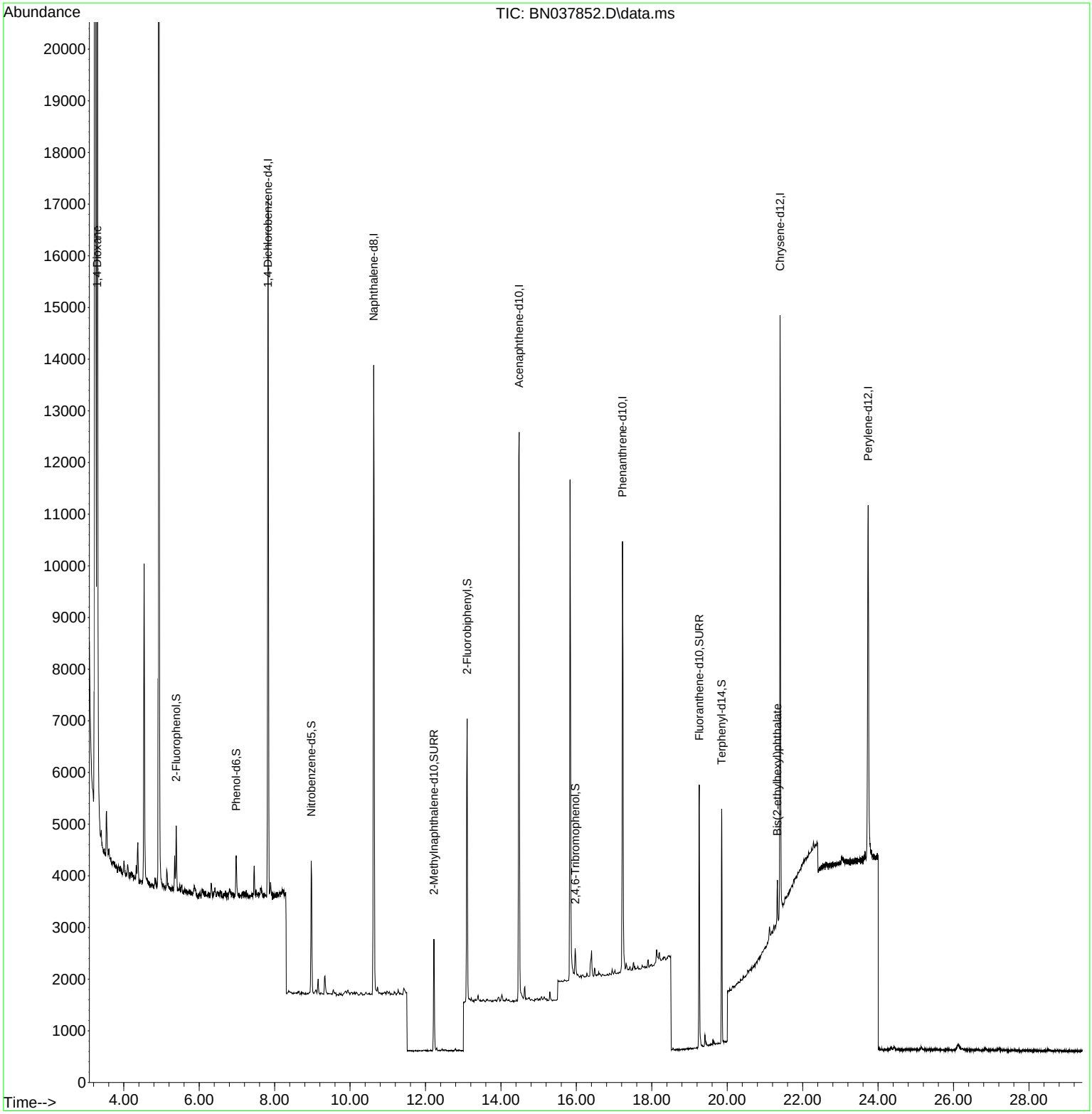
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	6180	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	16337	0.400	ng	-0.02
13) Acenaphthene-d10	14.484	164	6729	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	12081	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	10388	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	9986	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	936	0.066	ng	0.00
5) Phenol-d6	6.980	99	748	0.041	ng	0.00
8) Nitrobenzene-d5	8.971	82	2084	0.174	ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	2999	0.139	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	387	0.221	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	4709	0.167	ng	-0.01
27) Fluoranthene-d10	19.257	212	5524	0.182	ng	-0.01
31) Terphenyl-d14	19.852	244	4298	0.204	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	21770	3.382	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	839	0.078	ng	# 92

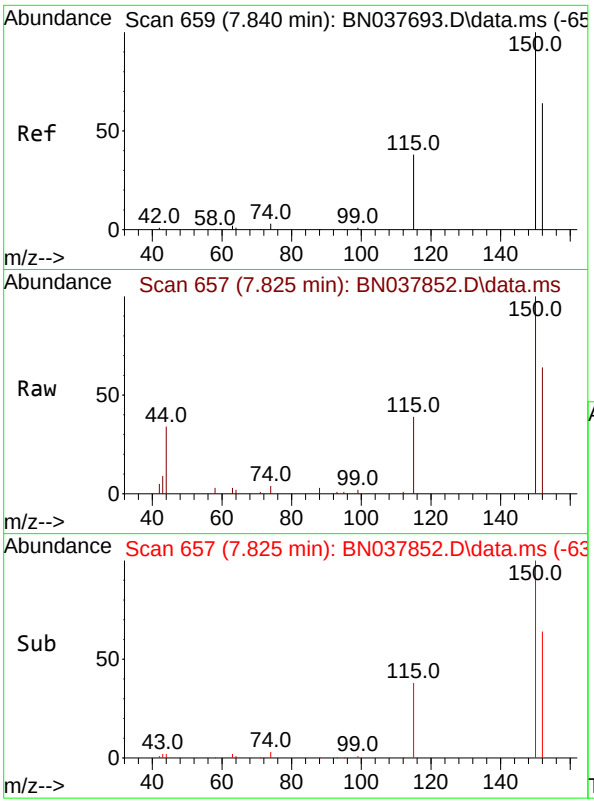
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037852.D
Acq On : 22 Sep 2025 12:08
Operator : RC/JU
Sample : Q3097-25DL 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

Quant Time: Sep 22 12:41:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



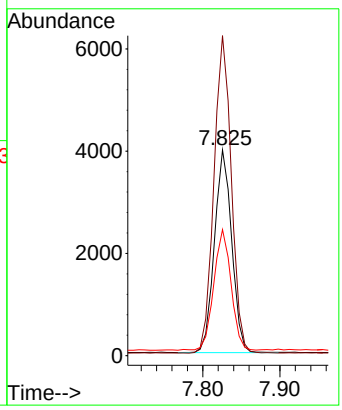


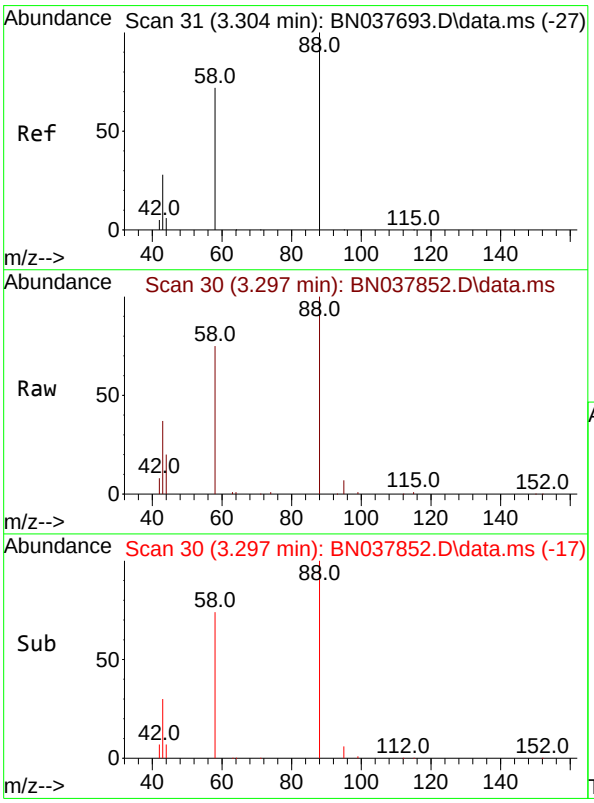
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

Tgt Ion:152 Resp: 6180

Ion	Ratio	Lower	Upper
152	100		
150	155.5	124.5	186.7
115	61.3	49.2	73.8

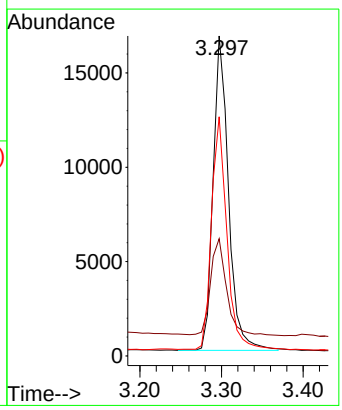


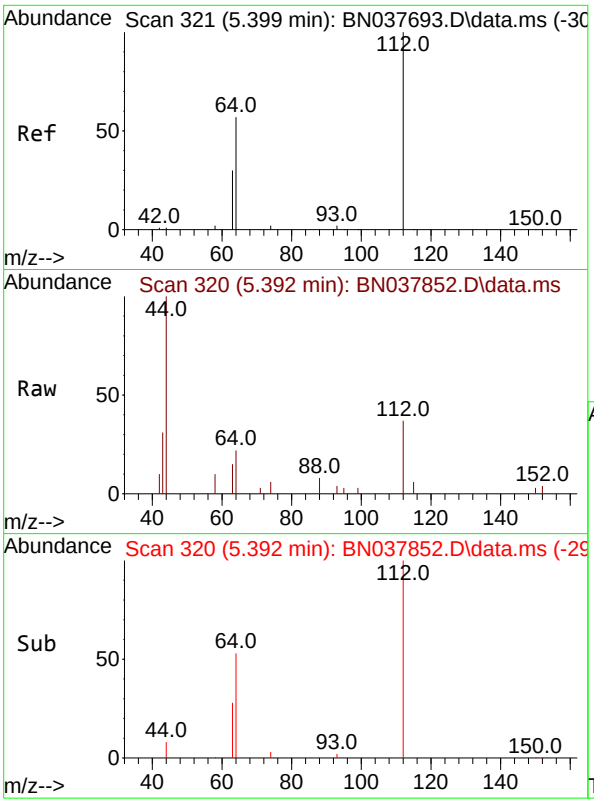


#2
1,4-Dioxane
Concen: 3.382 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Tgt Ion: 88 Resp: 21770

Ion	Ratio	Lower	Upper
88	100		
43	31.9	26.8	40.2
58	73.6	61.9	92.9



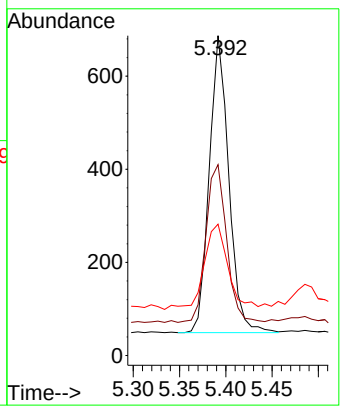


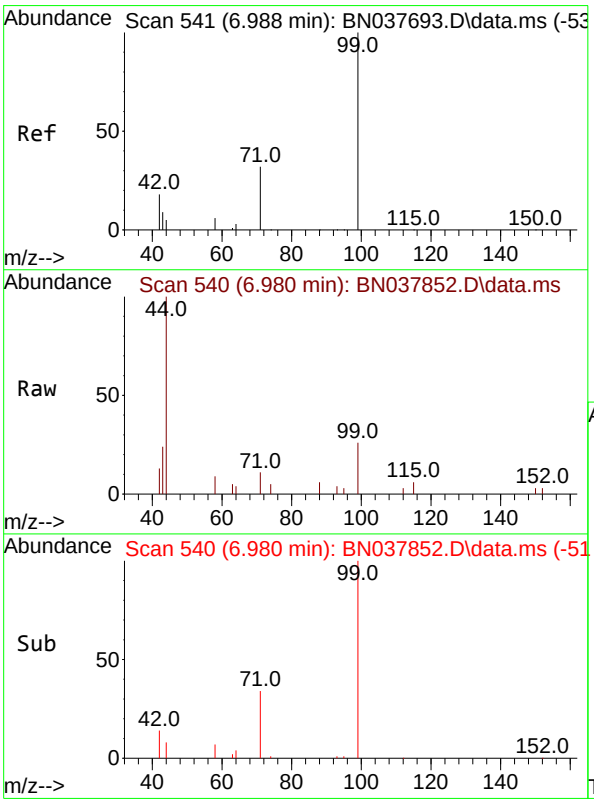
#4
2-Fluorophenol
Concen: 0.066 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

Tgt Ion:112 Resp: 936

Ion	Ratio	Lower	Upper
112	100		
64	56.1	44.9	67.3
63	35.3	24.7	37.1

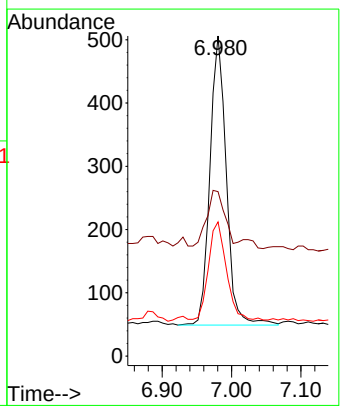


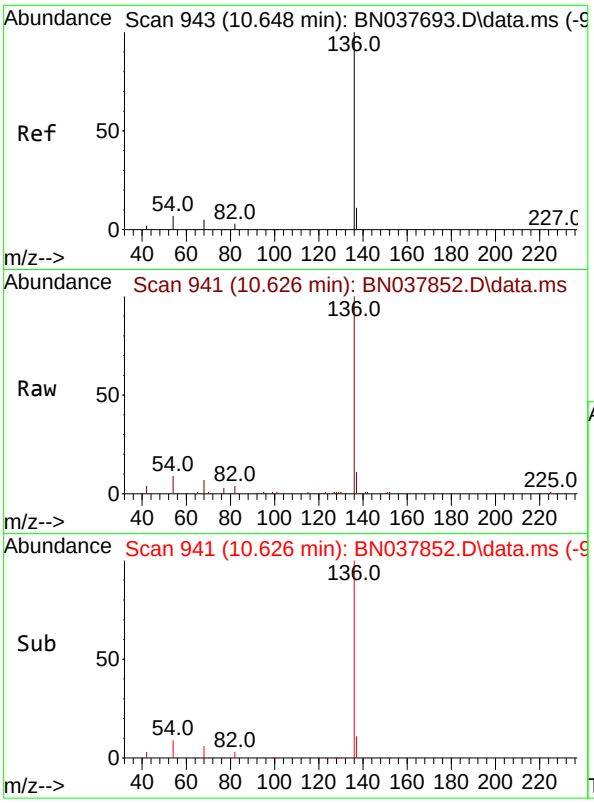


#5
Phenol-d6
Concen: 0.041 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Tgt Ion: 99 Resp: 748

Ion	Ratio	Lower	Upper
99	100		
42	22.9	16.6	24.8
71	36.9	26.7	40.1



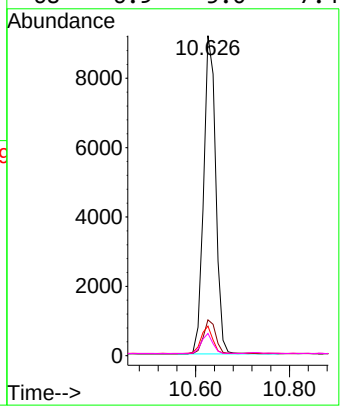


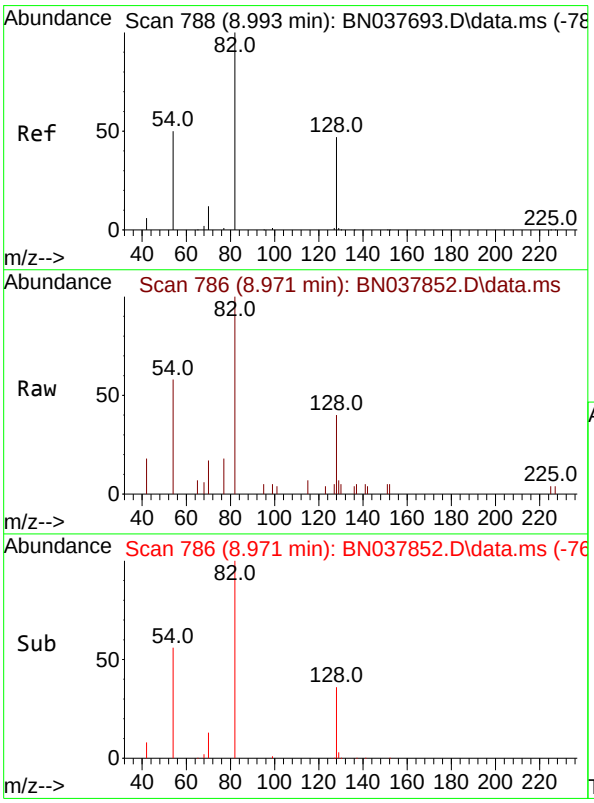
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

Tgt Ion:136 Resp: 16337

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	9.2	6.3	9.5
68	6.9	5.0	7.4

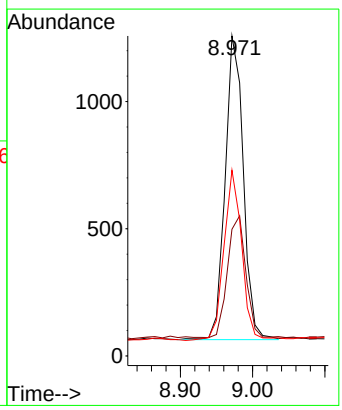


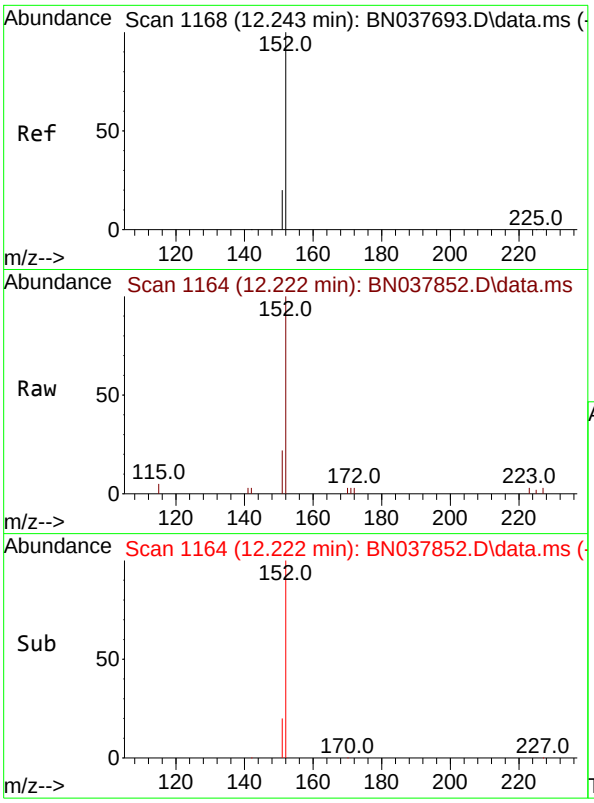


#8
Nitrobenzene-d5
Concen: 0.174 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.021 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Tgt Ion: 82 Resp: 2084

Ion	Ratio	Lower	Upper
82	100		
128	39.6	38.3	57.5
54	58.0	41.4	62.2



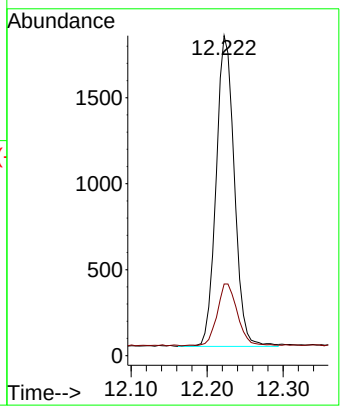


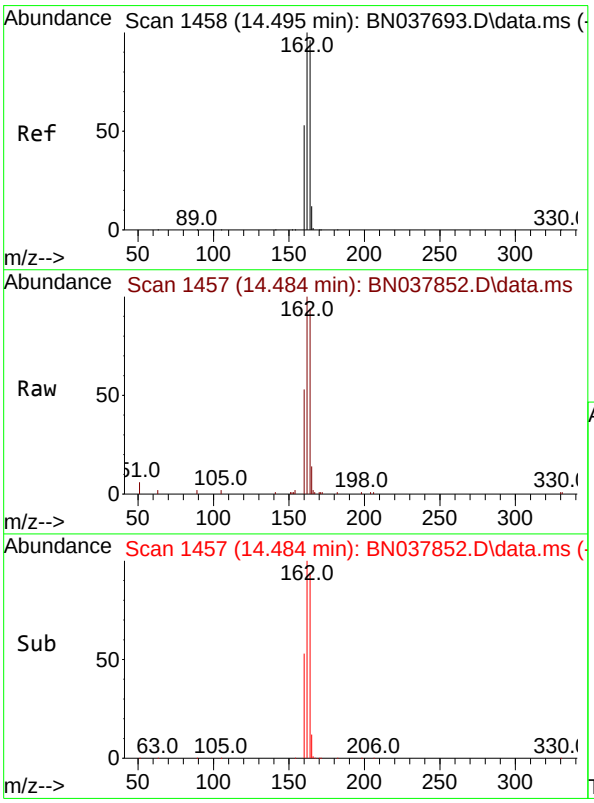
#11
2-Methylnaphthalene-d10
Concen: 0.139 ng
RT: 12.222 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

Tgt Ion:152 Resp: 2999

Ion	Ratio	Lower	Upper
152	100		
151	22.3	17.0	25.6

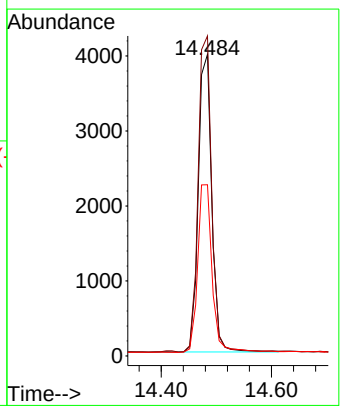


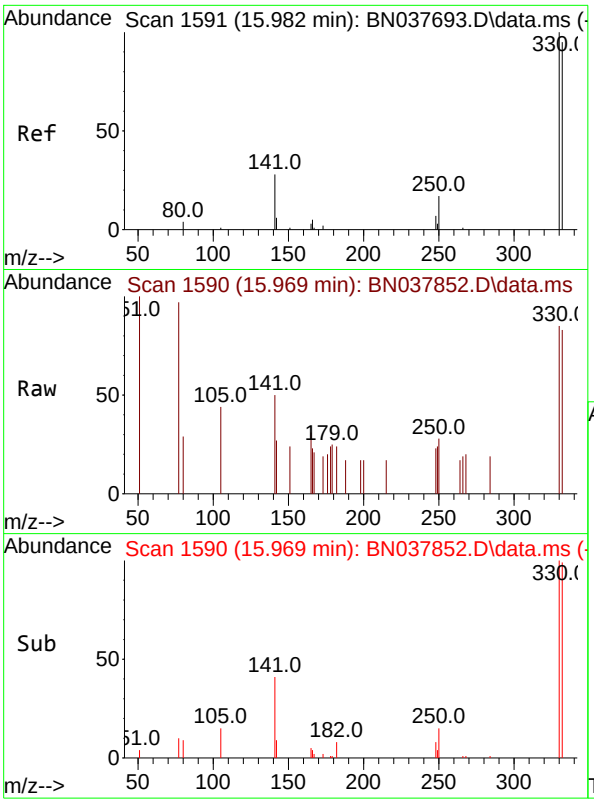


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Tgt Ion:164 Resp: 6729

Ion	Ratio	Lower	Upper
164	100		
162	106.1	83.1	124.7
160	56.7	44.3	66.5



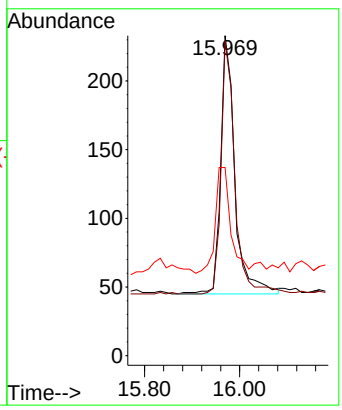


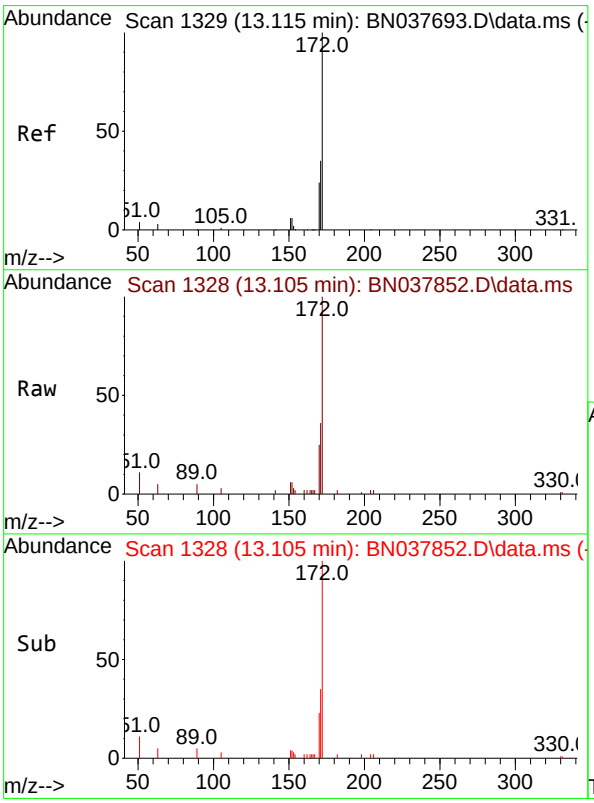
#14
2,4,6-Tribromophenol
Concen: 0.221 ng
RT: 15.969 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

Tgt Ion:330 Resp: 387

Ion	Ratio	Lower	Upper
330	100		
332	95.1	75.3	112.9
141	44.4	35.0	52.4

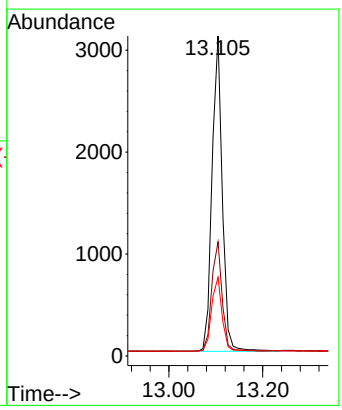


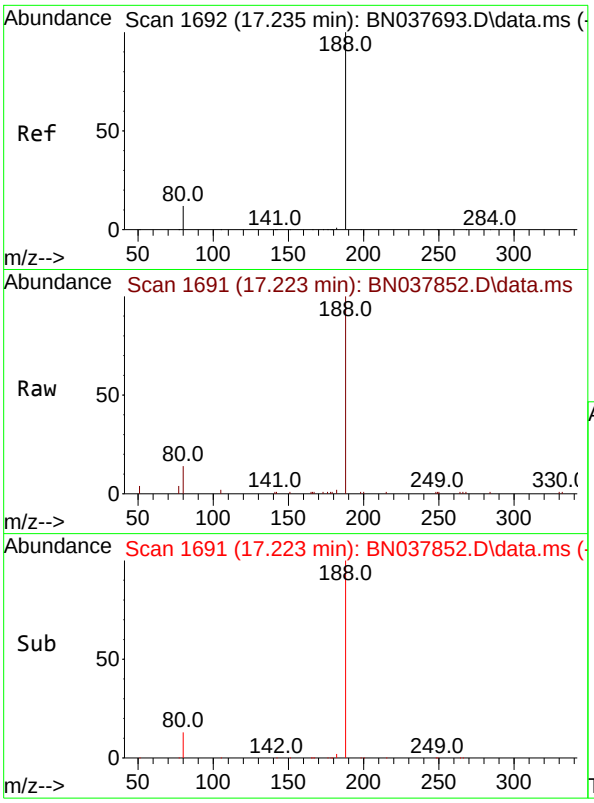


#15
2-Fluorobiphenyl
Concen: 0.167 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Tgt Ion:172 Resp: 4709

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	24.6	19.8	29.8



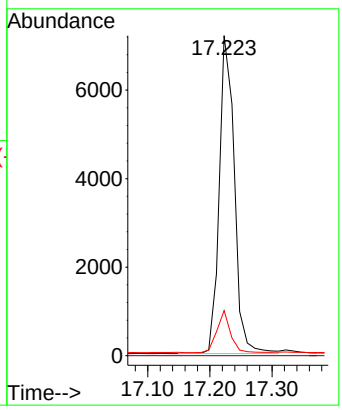


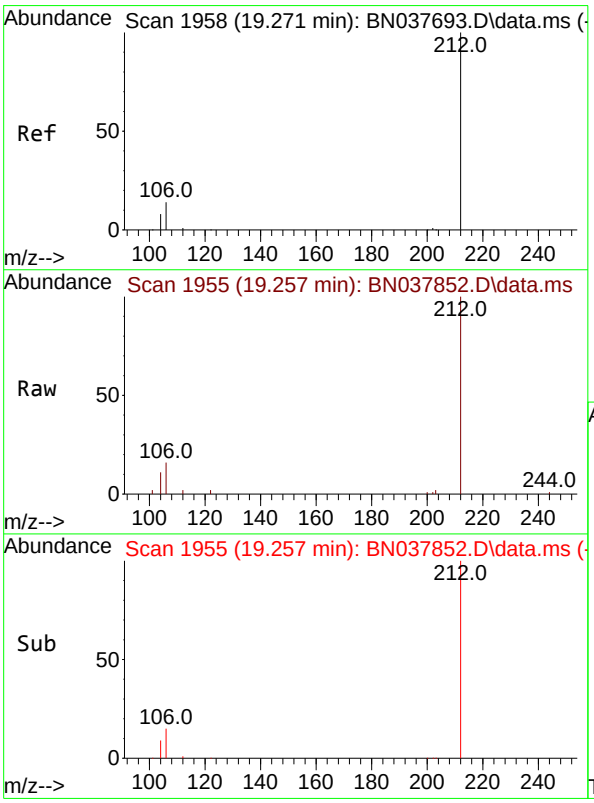
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

Tgt Ion:188 Resp: 12081

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.1	10.6	15.8

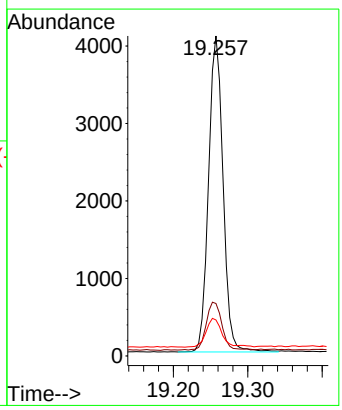


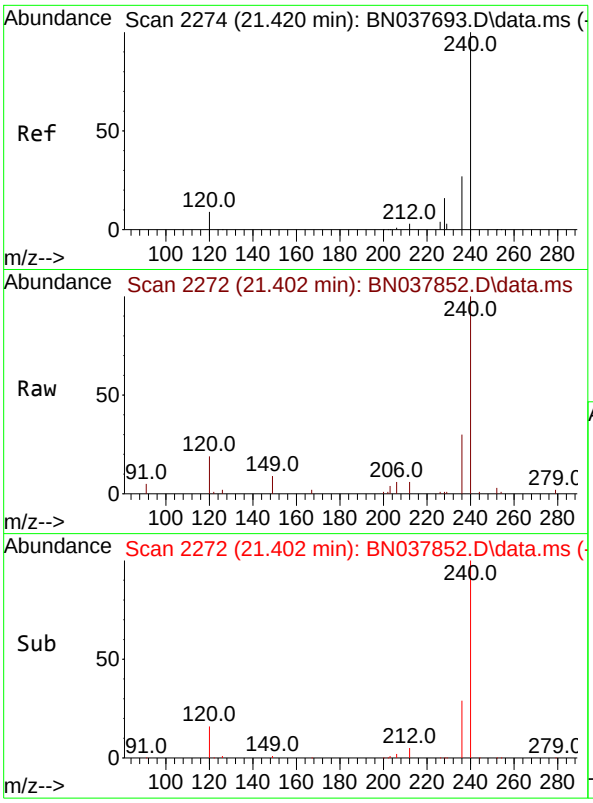


#27
Fluoranthene-d10
Concen: 0.182 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Tgt Ion:212 Resp: 5524

Ion	Ratio	Lower	Upper
212	100		
106	16.3	12.2	18.2
104	9.7	6.9	10.3



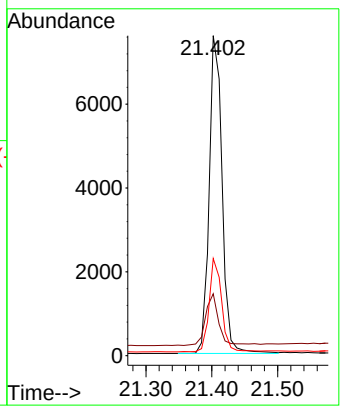


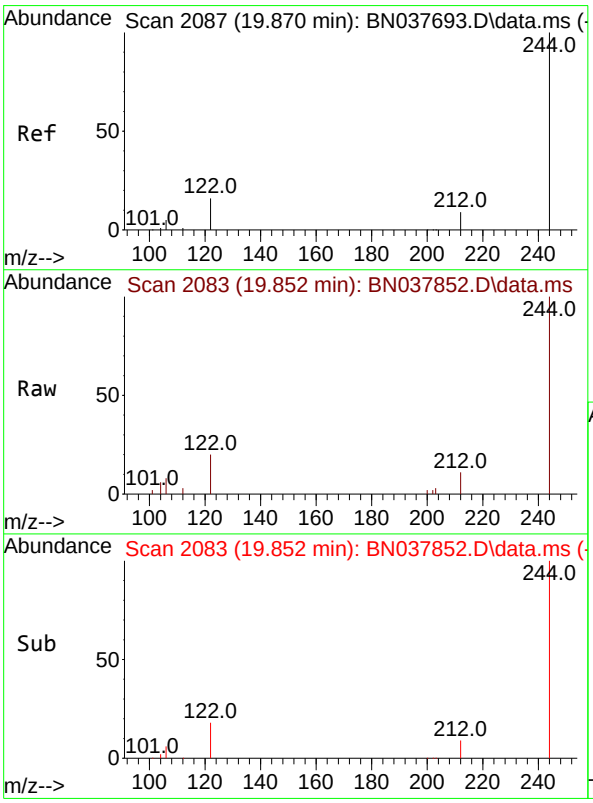
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

Tgt Ion:240 Resp: 10388

Ion	Ratio	Lower	Upper
240	100		
120	19.4	9.2	13.8#
236	30.4	22.6	33.8

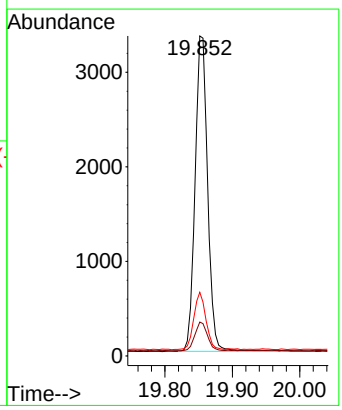


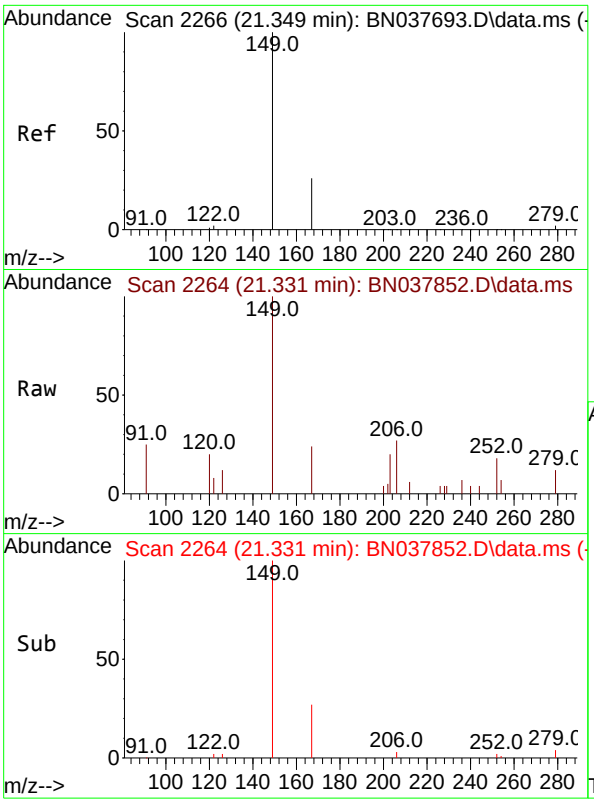


#31
Terphenyl-d14
Concen: 0.204 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.019 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Tgt Ion:244 Resp: 4298

Ion	Ratio	Lower	Upper
244	100		
212	10.6	7.5	11.3
122	19.9	13.2	19.8#



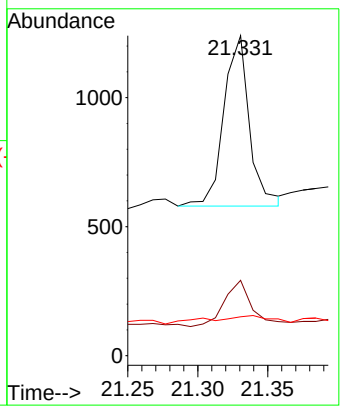


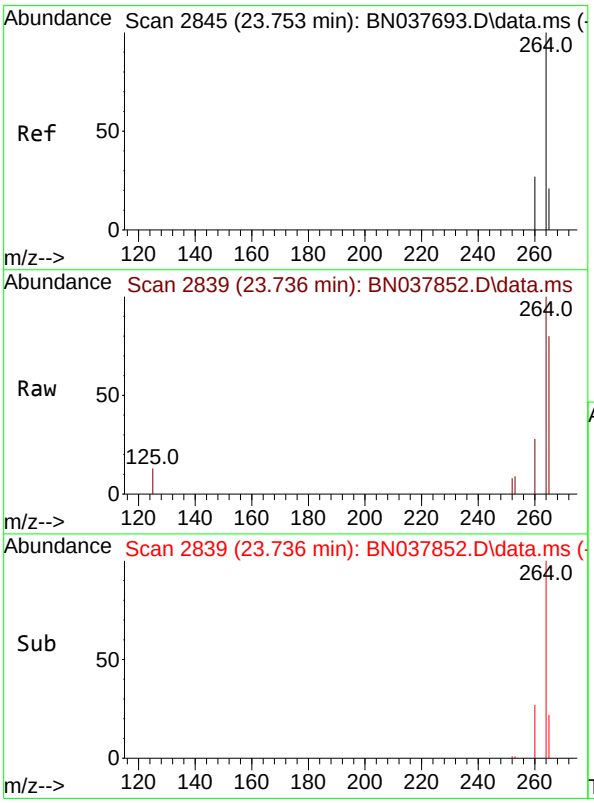
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.078 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

Tgt Ion:149 Resp: 839

Ion	Ratio	Lower	Upper
149	100		
167	30.3	20.8	31.2
279	6.2	3.3	4.9#

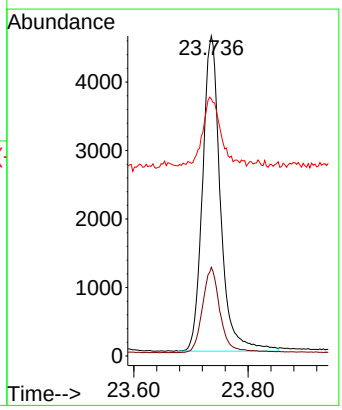




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. -0.018 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Tgt Ion:264 Resp: 9986

Ion	Ratio	Lower	Upper
264	100		
260	27.7	21.8	32.8
265	80.3	39.4	59.2#



Raw Data: **BN037824.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	EB01-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-26	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037824.D	1	09/16/25 09:39	09/19/25 21:00	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.11	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4520	7.833				
1146-65-2	Naphthalene-d8	12000	10.637				
15067-26-2	Acenaphthene-d10	5000	14.484				
1517-22-2	Phenanthrene-d10	8480	17.223				
1719-03-5	Chrysene-d12	7500	21.402				
1520-96-3	Perylene-d12	7190	23.736				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037824.D
Acq On : 19 Sep 2025 21:00
Operator : RC/JU
Sample : Q3097-26
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-20250912

Quant Time: Sep 19 23:56:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

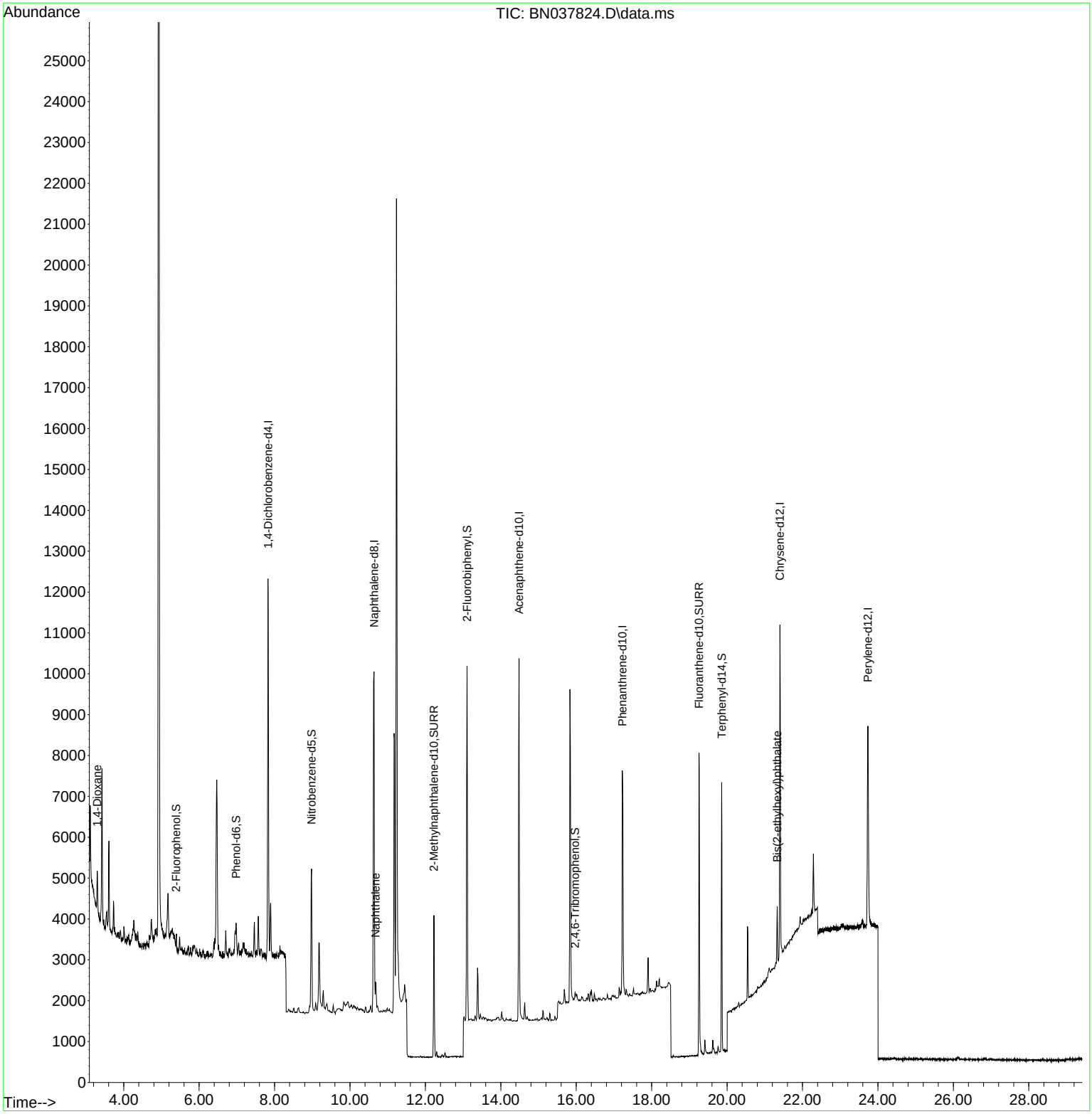
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	4515	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	12030	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	5004	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	8479	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	7497	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	7192	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	266	0.026	ng	0.00
5) Phenol-d6	6.981	99	627	0.047	ng	0.00
8) Nitrobenzene-d5	8.982	82	2876	0.327	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	4628	0.290	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	109	0.084	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	7099	0.339	ng	-0.01
27) Fluoranthene-d10	19.257	212	7876	0.370	ng	-0.01
31) Terphenyl-d14	19.856	244	5974	0.393	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	501	0.107	ng	# 34
9) Naphthalene	10.680	128	905	0.028	ng	# 80
34) Bis(2-ethylhexyl)phtha...	21.331	149	1356	0.175	ng	# 99

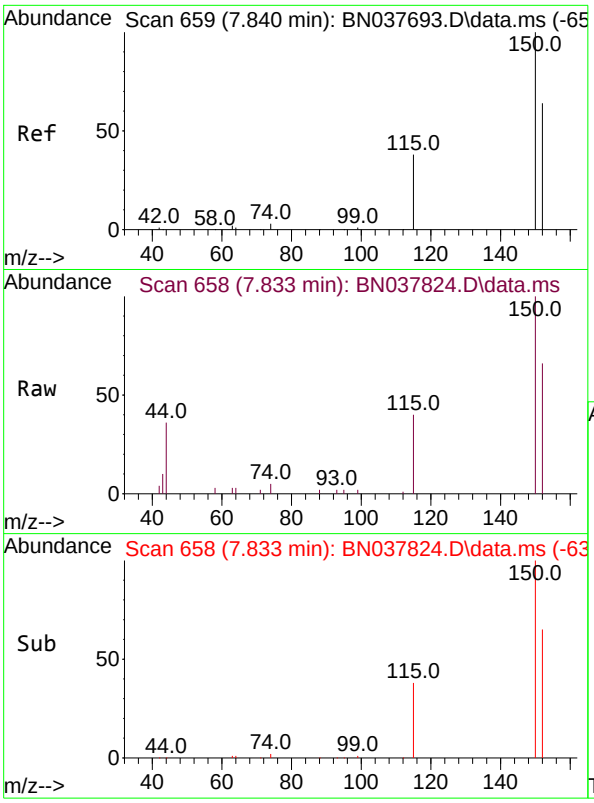
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037824.D
Acq On : 19 Sep 2025 21:00
Operator : RC/JU
Sample : Q3097-26
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-20250912

Quant Time: Sep 19 23:56:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



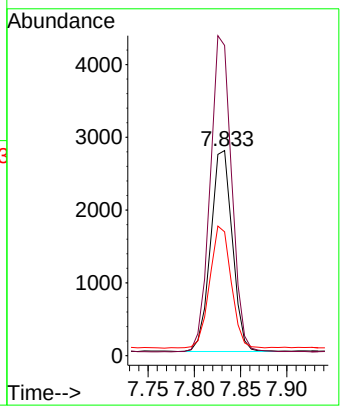


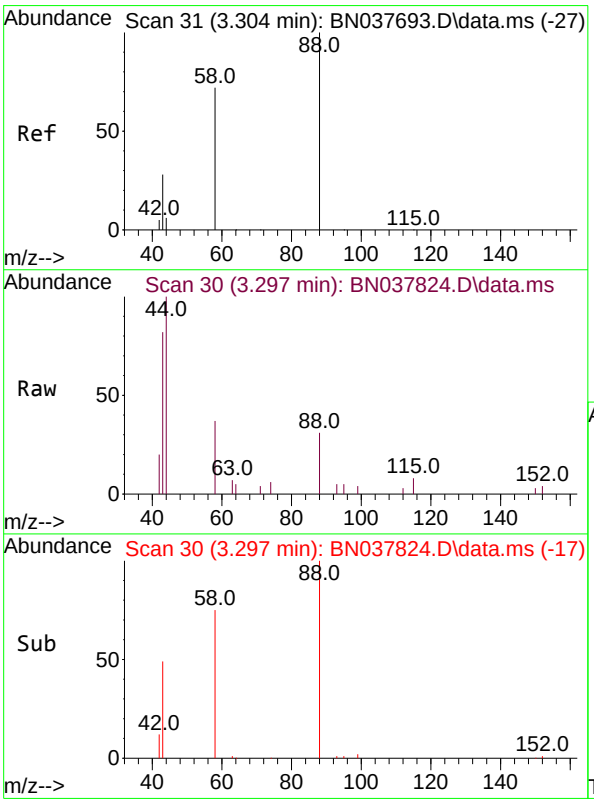
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Instrument :
BNA_N
ClientSampleId :
EB01-20250912

Tgt Ion:152 Resp: 4515

Ion	Ratio	Lower	Upper
152	100		
150	151.3	124.5	186.7
115	60.4	49.2	73.8

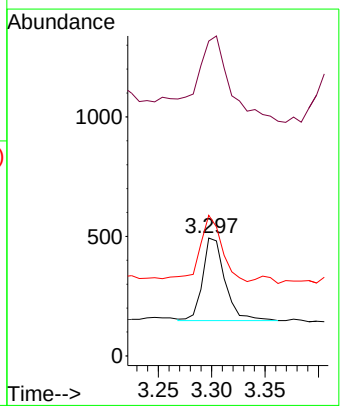


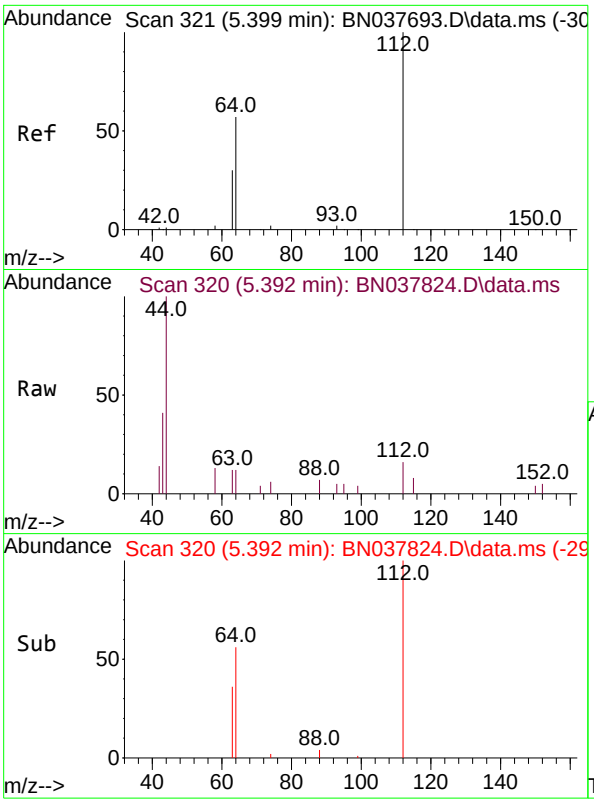


#2
1,4-Dioxane
Concen: 0.107 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion: 88 Resp: 501

Ion	Ratio	Lower	Upper
88	100		
43	152.1	26.8	40.2#
58	81.4	61.9	92.9



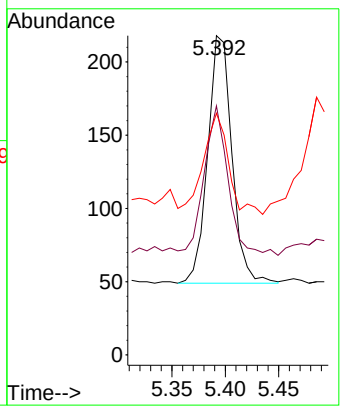


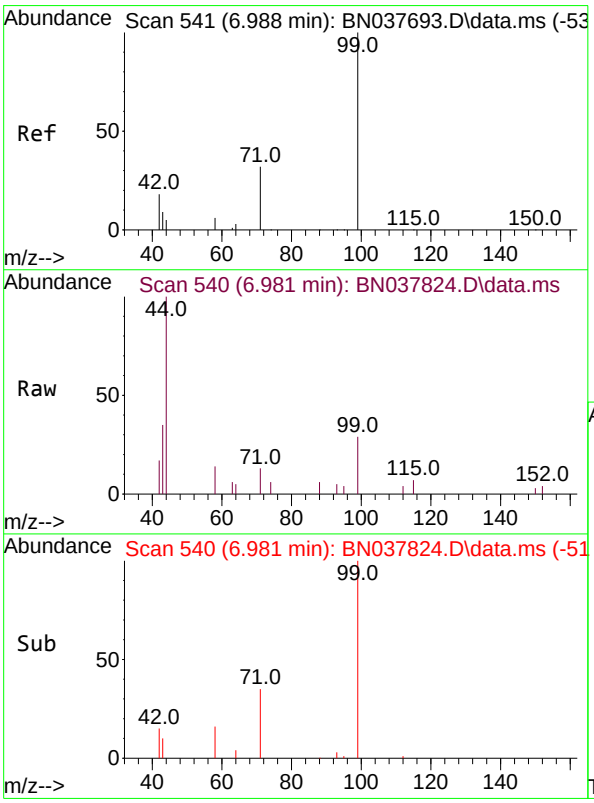
#4
2-Fluorophenol
Concen: 0.026 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Instrument :
BNA_N
ClientSampleId :
EB01-20250912

Tgt Ion:112 Resp: 266

Ion	Ratio	Lower	Upper
112	100		
64	62.0	44.9	67.3
63	42.5	24.7	37.1#

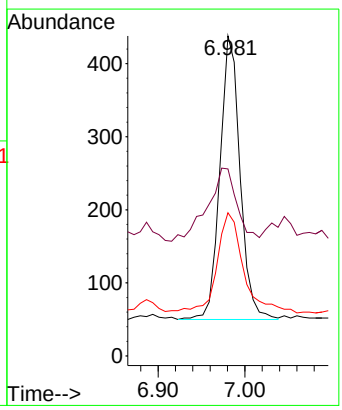


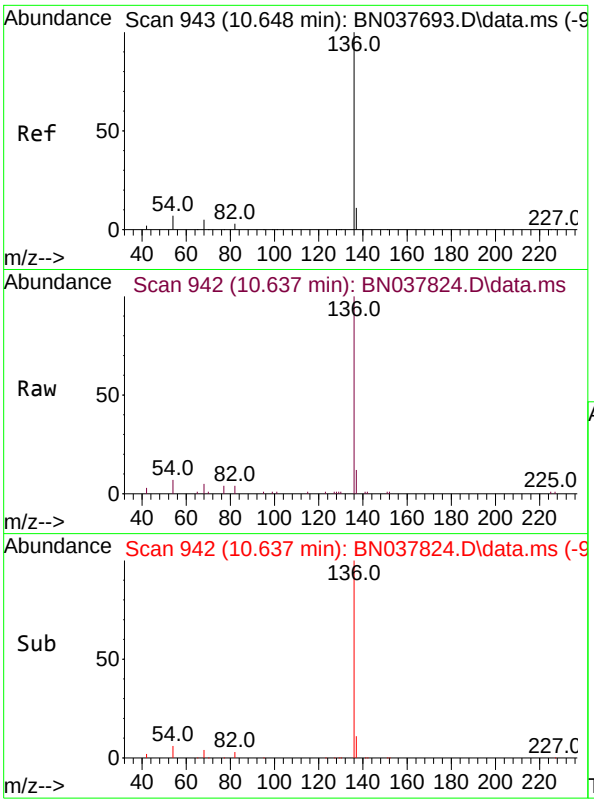


#5
Phenol-d6
Concen: 0.047 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion: 99 Resp: 627

Ion	Ratio	Lower	Upper
99	100		
42	37.6	16.6	24.8#
71	46.3	26.7	40.1#



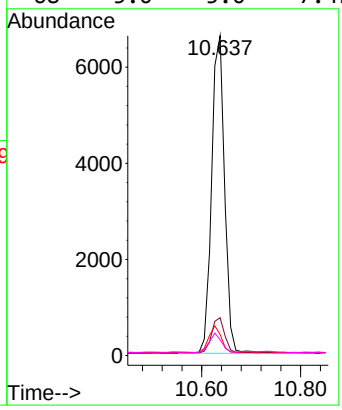


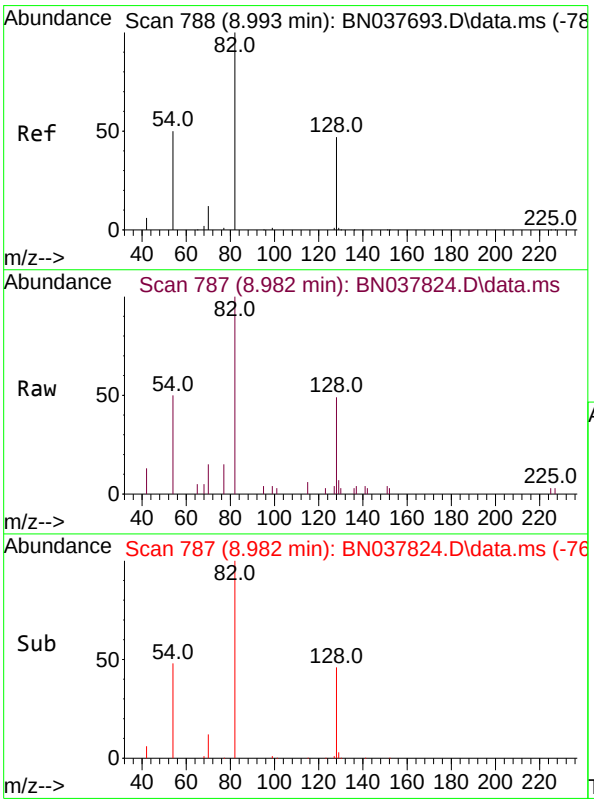
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Instrument :
BNA_N
ClientSampleId :
EB01-20250912

Tgt Ion:136 Resp: 12030

Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.1	13.7
54	6.6	6.3	9.5
68	5.0	5.0	7.4#

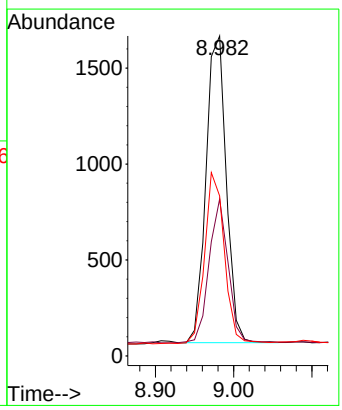


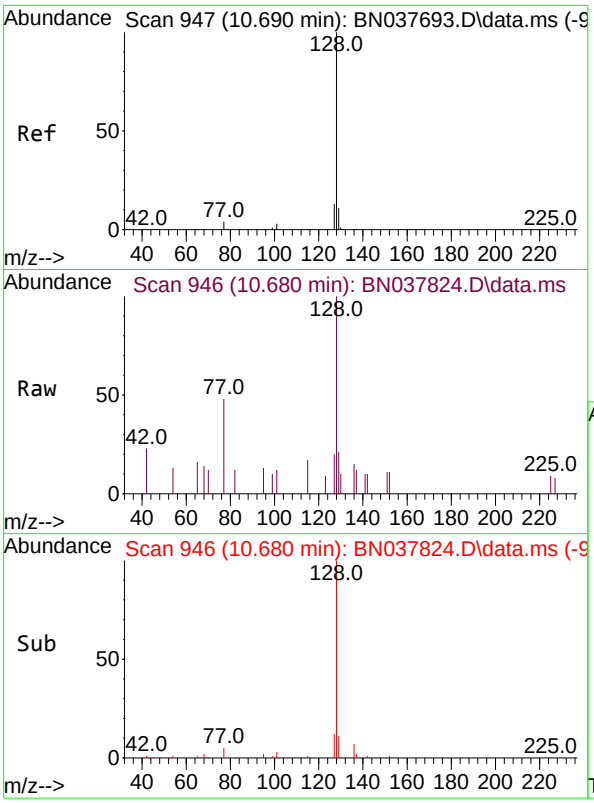


#8
Nitrobenzene-d5
Concen: 0.327 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion: 82 Resp: 2876

Ion	Ratio	Lower	Upper
82	100		
128	49.0	38.3	57.5
54	50.0	41.4	62.2



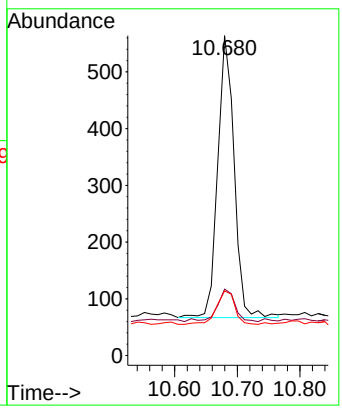


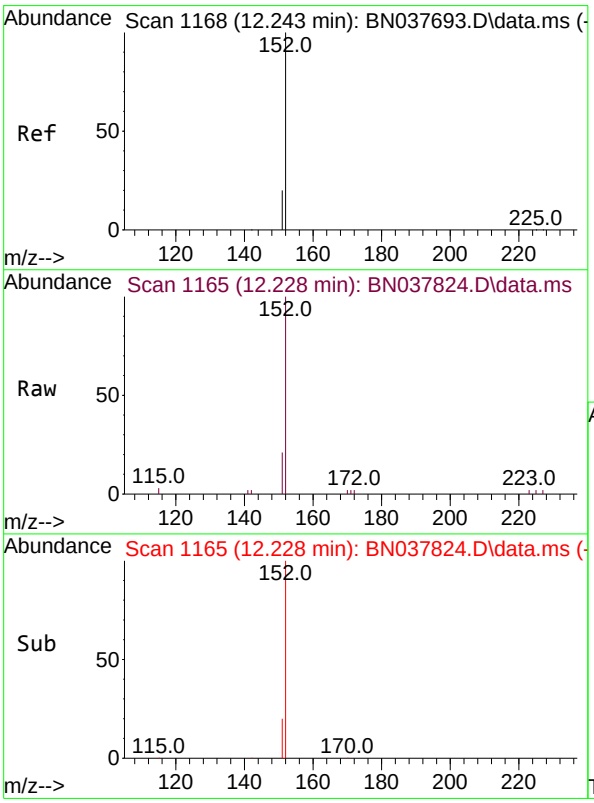
#9
Naphthalene
Concen: 0.028 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Instrument :
BNA_N
ClientSampleId :
EB01-20250912

Tgt Ion:128 Resp: 905

Ion	Ratio	Lower	Upper
128	100		
129	20.7	9.1	13.7#
127	20.2	10.9	16.3#

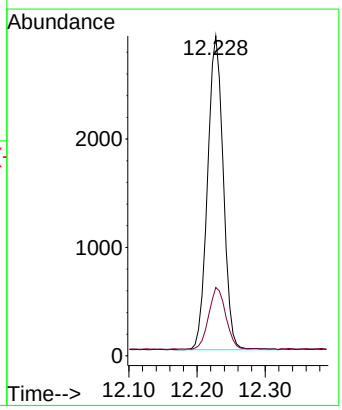


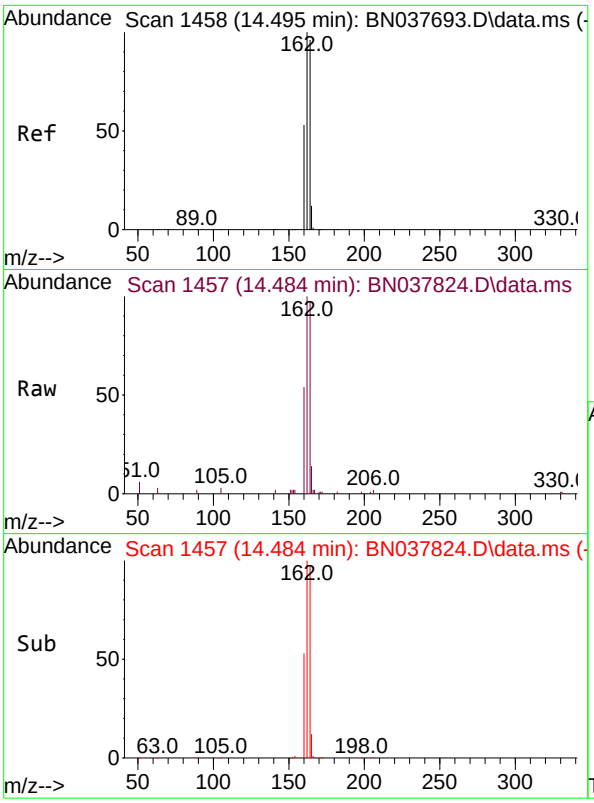


#11
2-Methylnaphthalene-d10
Concen: 0.290 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion:152 Resp: 4628

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6



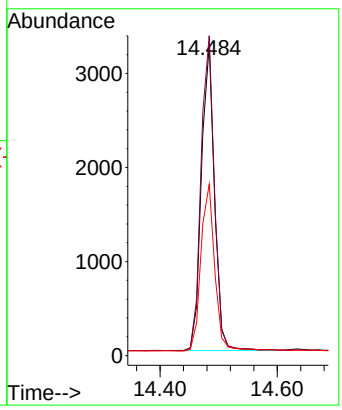


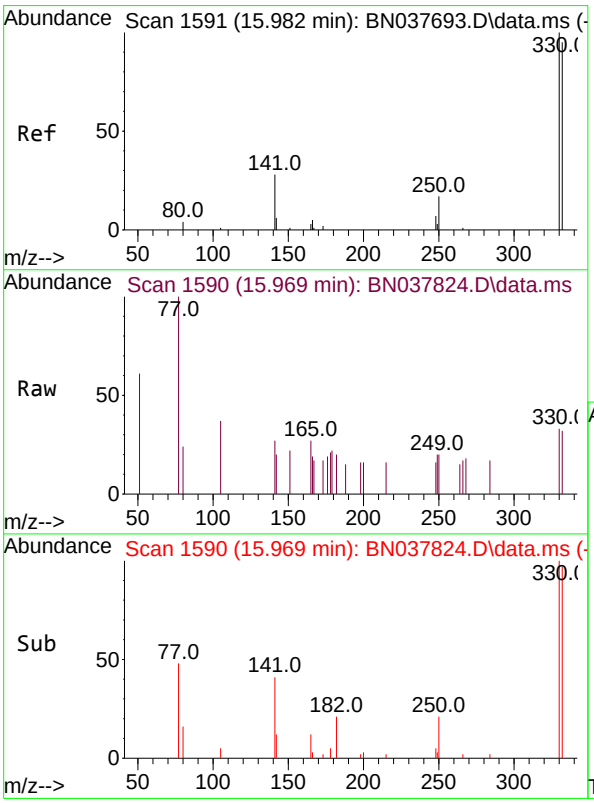
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Instrument :
BNA_N
ClientSampleId :
EB01-20250912

Tgt Ion:164 Resp: 5004

Ion	Ratio	Lower	Upper
164	100		
162	102.9	83.1	124.7
160	55.2	44.3	66.5

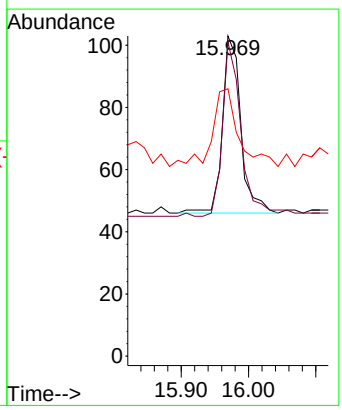


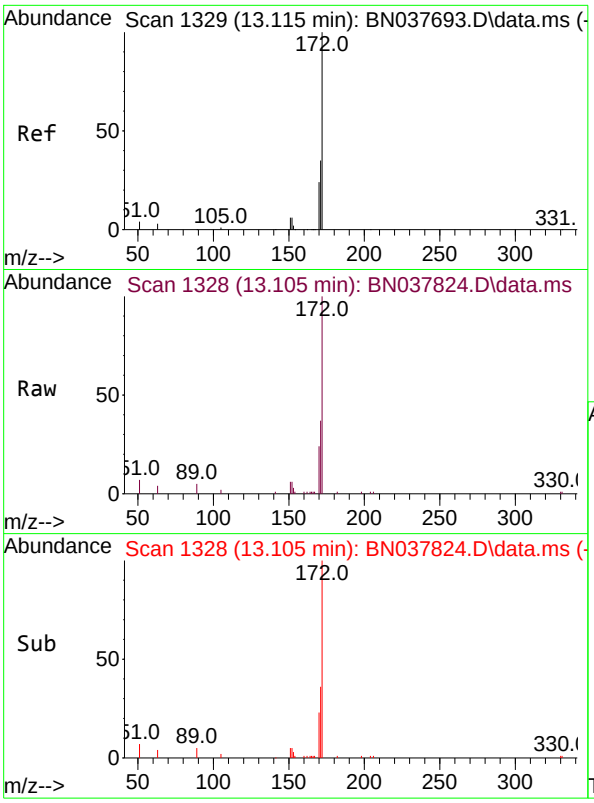


#14
2,4,6-Tribromophenol
Concen: 0.084 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion:330 Resp: 109

Ion	Ratio	Lower	Upper
330	100		
332	102.8	75.3	112.9
141	60.6	35.0	52.4#



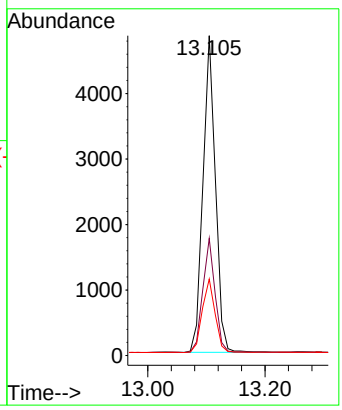


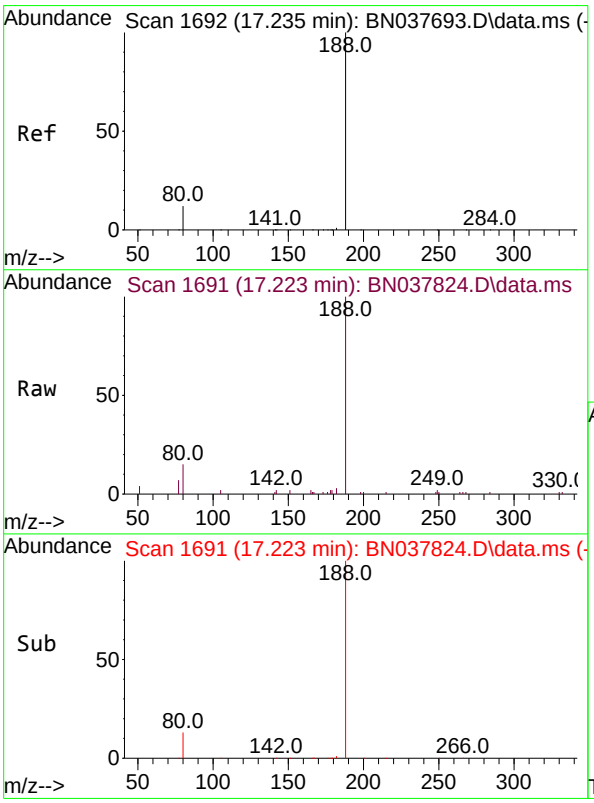
#15
2-Fluorobiphenyl
Concen: 0.339 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Instrument :
BNA_N
ClientSampleId :
EB01-20250912

Tgt Ion:172 Resp: 7099

Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.6	43.0
170	23.9	19.8	29.8

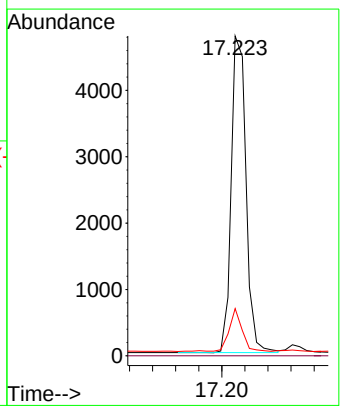


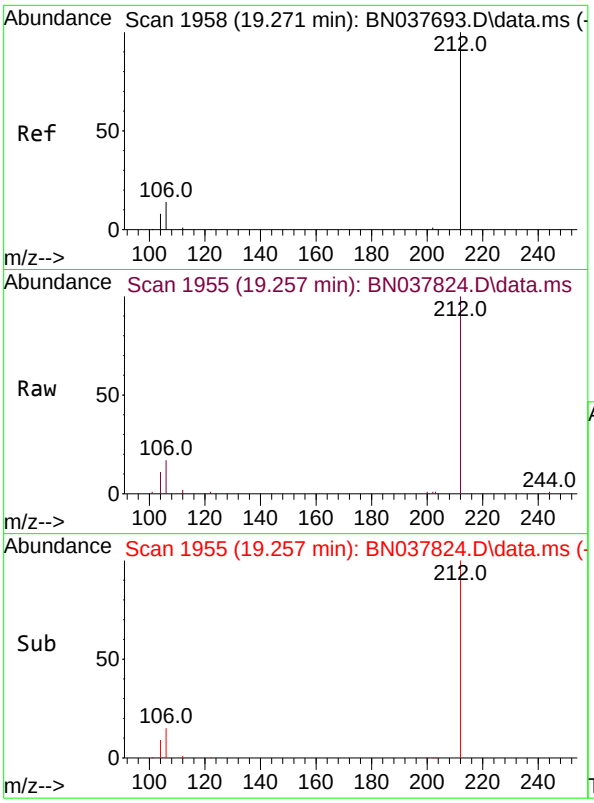


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion:188 Resp: 8479

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.7	10.6	15.8



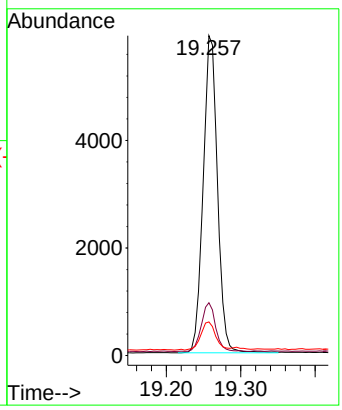


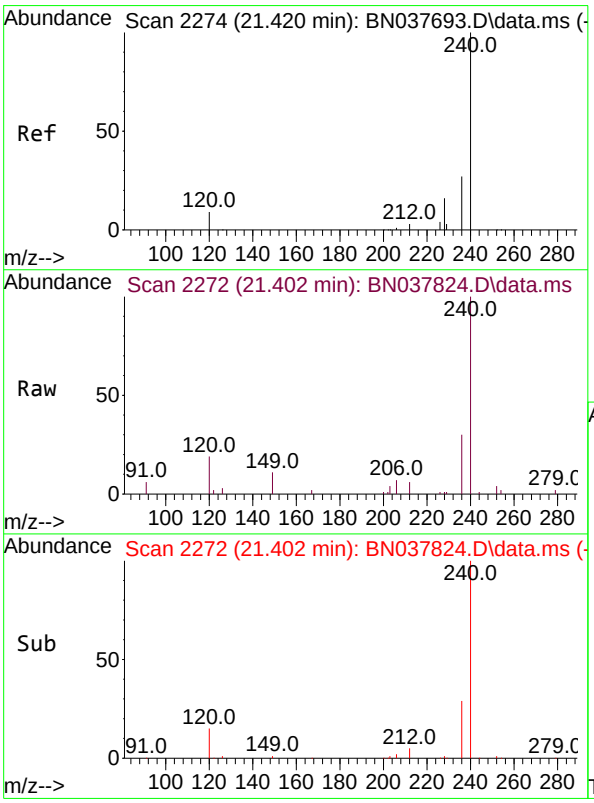
#27
Fluoranthene-d10
Concen: 0.370 ng
RT: 19.257 min Scan# 19
Delta R.T. -0.014 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Instrument :
BNA_N
ClientSampleId :
EB01-20250912

Tgt Ion:212 Resp: 7876

Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.2	18.2
104	9.2	6.9	10.3

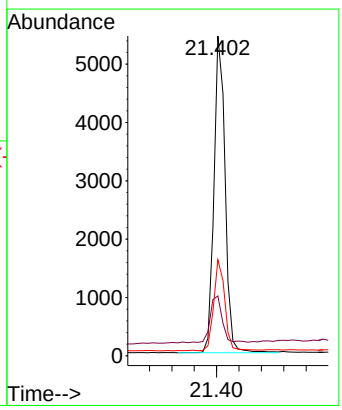


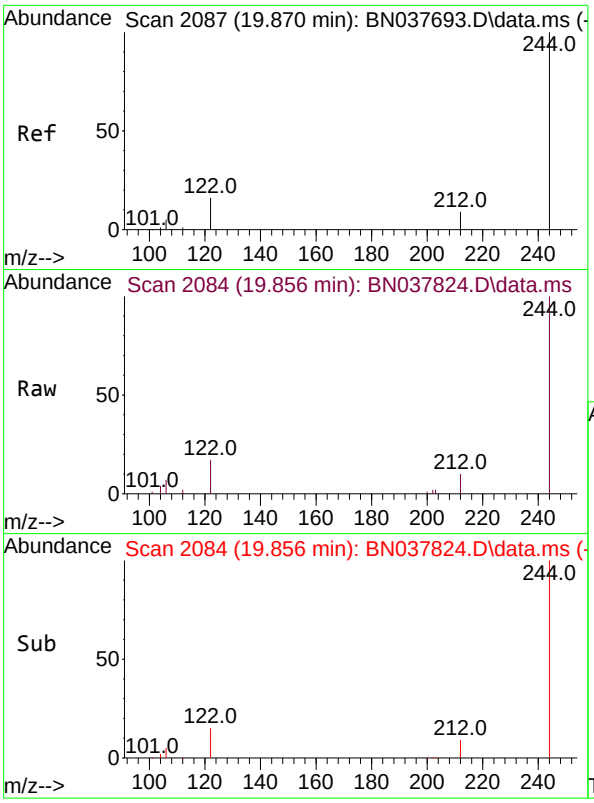


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.018 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion:240 Resp: 7497

Ion	Ratio	Lower	Upper
240	100		
120	18.7	9.2	13.8#
236	30.0	22.6	33.8



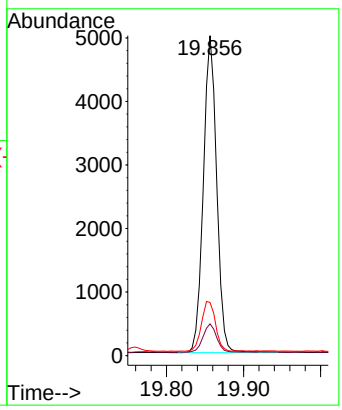


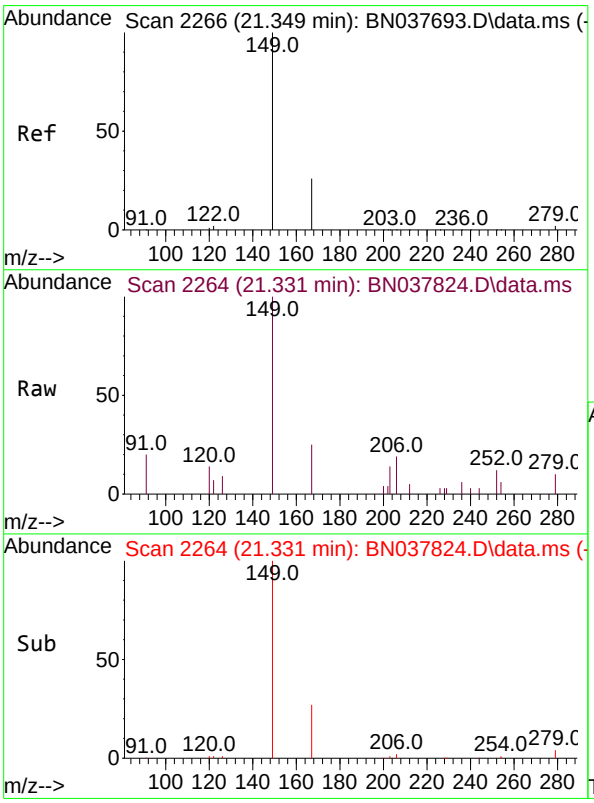
#31
Terphenyl-d14
Concen: 0.393 ng
RT: 19.856 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Instrument :
BNA_N
ClientSampleId :
EB01-20250912

Tgt Ion:244 Resp: 5974

Ion	Ratio	Lower	Upper
244	100		
212	9.9	7.5	11.3
122	16.6	13.2	19.8

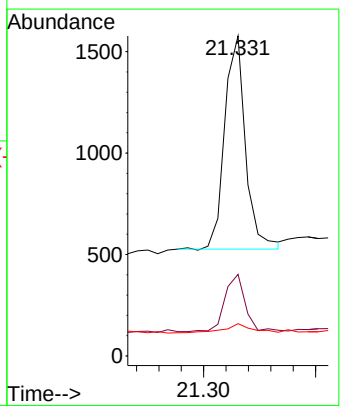


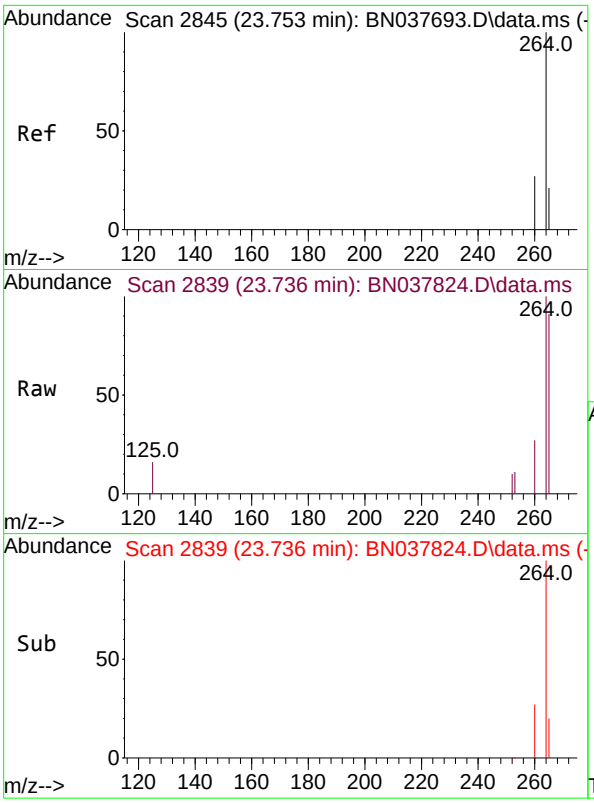


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.175 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion:149 Resp: 1356

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.8	31.2
279	5.5	3.3	4.9#



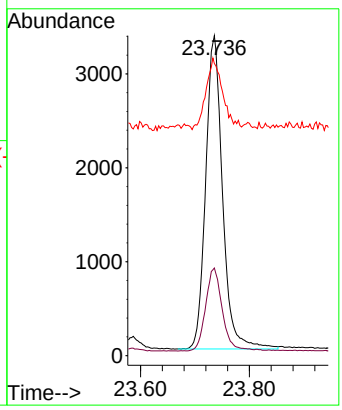


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 28
Delta R.T. -0.018 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Instrument :
BNA_N
ClientSampleId :
EB01-20250912

Tgt Ion:264 Resp: 7192

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.8	32.8
265	91.3	39.4	59.2#



CALIBRATION SUMMARY

Raw Data

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3097

Instrument ID: BNA_N Calibration Date(s): 09/11/2025 09/11/2025

Calibration Time(s): 09:56 13:33

LAB FILE ID: RRF0.1 = BN037691.D RRF0.2 = BN037692.D RRF0.4 = BN037693.D
RRF0.8 = BN037694.D RRF1.6 = BN037695.D RRF3.2 = BN037696.D

COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.497	0.497	0.498	0.478	0.522	0.550	0.530	12.3
Fluoranthene-d10	0.912	0.887	0.935	0.883	0.954	1.108	1.004	17.0
2-Fluorophenol	0.929	0.913	0.892	0.840	0.912	0.937	0.918	5.4
Phenol-d6	1.191	1.193	1.156	1.088	1.193	1.225	1.191	5.1
Nitrobenzene-d5	0.287	0.279	0.285	0.272	0.296	0.303	0.293	6.0
2-Fluorobiphenyl	1.663	1.666	1.649	1.586	1.689	1.674	1.673	3.5
2,4,6-Tribromophenol	0.088	0.098	0.101	0.096	0.113	0.131	0.104	14.7
Terphenyl-d14	0.806	0.833	0.801	0.754	0.812	0.784	0.812	5.3
1,4-Dioxane		0.429	0.422	0.411	0.432	0.418	0.417	3.8

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN037691.D 0.2 =BN037692.D 0.4 =BN037693.D 0.8 =BN037694.D 1.6 =BN037695.D 3.2 =BN037696.D 5 =BN037697.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.429	0.422	0.411	0.432	0.418	0.388	0.417		3.80
3)		n-Nitrosodimet...	0.530	0.564	0.515	0.556	0.550	0.551	0.544		3.34
4)	S	2-Fluorophenol	0.929	0.913	0.892	0.840	0.912	0.937	1.004	0.918	5.37
5)	S	Phenol-d6	1.191	1.193	1.156	1.088	1.193	1.225	1.289	1.191	5.15
6)		bis(2-Chloroet...	1.076	1.075	1.070	1.019	1.078	1.066	1.063	1.064	1.94
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.287	0.279	0.285	0.272	0.296	0.303	0.325	0.293	6.05
9)		Naphthalene	1.091	1.072	1.074	1.036	1.117	1.115	1.149	1.093	3.38
10)		Hexachlorobuta...	0.199	0.196	0.197	0.189	0.203	0.199	0.202	0.198	2.29
11)	SURR	2-Methylnaphth...	0.497	0.497	0.498	0.478	0.522	0.550	0.668	0.530	12.31
12)		2-Methylnaphth...	0.643	0.651	0.659	0.633	0.697	0.712	0.740	0.676	5.91
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.088	0.098	0.101	0.096	0.113	0.131		0.104	14.74
15)	S	2-Fluorobiphenyl	1.663	1.666	1.649	1.586	1.689	1.674	1.785	1.673	3.54
16)		Acenaphthylene	1.754	1.756	1.783	1.727	1.885	1.916	2.020	1.834	5.90
17)		Acenaphthene	1.165	1.199	1.215	1.187	1.272	1.296	1.348	1.240	5.37
18)		Fluorene	1.404	1.402	1.441	1.419	1.545	1.633	1.671	1.502	7.59
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.032	0.033	0.033	0.040	0.046		0.037		16.34
21)		4-Bromophenyl-...	0.250	0.252	0.251	0.248	0.272	0.269	0.284	0.261	5.43
22)		Hexachlorobenzene	0.301	0.308	0.294	0.280	0.305	0.302	0.310	0.300	3.39
23)		Atrazine	0.145	0.151	0.152	0.146	0.169	0.190	0.209	0.166	15.00
24)		Pentachlorophenol	0.074	0.074	0.073	0.086	0.100	0.115	0.087		19.46
25)		Phenanthrene	1.228	1.215	1.223	1.173	1.285	1.321	1.371	1.259	5.47
26)		Anthracene	1.038	1.029	1.070	1.030	1.140	1.221	1.281	1.116	9.09
27)	SURR	Fluoranthene-d10	0.912	0.887	0.935	0.883	0.954	1.108	1.350	1.004	16.98
28)		Fluoranthene	1.257	1.224	1.310	1.269	1.393	1.578	1.637	1.381	11.91
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.578	1.618	1.557	1.473	1.603	1.542	1.590	1.566	3.09
31)	S	Terphenyl-d14	0.806	0.833	0.801	0.754	0.812	0.784	0.892	0.812	5.30
32)		Benzo(a)anthra...	1.386	1.345	1.347	1.297	1.410	1.459	1.522	1.395	5.46
33)		Chrysene	1.523	1.491	1.496	1.402	1.510	1.506	1.543	1.496	3.01
34)		Bis(2-ethylhex...	0.440	0.376	0.345	0.380	0.438	0.504	0.414		13.96
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN091125.M

36)		Indeno(1,2,3-c...	1.517	1.491	1.543	1.532	1.791	1.865	2.025	1.681	12.58
37)		Benzo(b)fluora...	1.463	1.475	1.554	1.444	1.636	1.674	1.778	1.575	7.99
38)		Benzo(k)fluora...	1.516	1.543	1.524	1.501	1.705	1.696	1.756	1.606	6.73
39)	C	Benzo(a)pyrene	1.155	1.172	1.201	1.151	1.314	1.367	1.467	1.261	9.78
40)		Dibenzo(a,h)an...	1.157	1.175	1.210	1.232	1.463	1.519	1.636	1.342	14.39
41)		Benzo(g,h,i)pe...	1.413	1.402	1.451	1.375	1.568	1.607	1.723	1.506	8.59

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037691.D
Acq On : 11 Sep 2025 09:56
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Sep 11 14:05:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.840	152	5271	0.400	ng		0.00
7) Naphthalene-d8	10.647	136	14013	0.400	ng		0.00
13) Acenaphthene-d10	14.494	164	6484	0.400	ng		0.00
19) Phenanthrene-d10	17.235	188	11736	0.400	ng		0.00
29) Chrysene-d12	21.420	240	9323	0.400	ng		0.00
35) Perylene-d12	23.753	264	9603	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.399	112	1224	0.101	ng		0.00
5) Phenol-d6	6.987	99	1570	0.100	ng		0.00
8) Nitrobenzene-d5	8.992	82	1006	0.098	ng		0.00
11) 2-Methylnaphthalene-d10	12.242	152	1740	0.094	ng		0.00
14) 2,4,6-Tribromophenol	15.982	330	142	0.084	ng		0.00
15) 2-Fluorobiphenyl	13.115	172	2696	0.099	ng		0.00
27) Fluoranthene-d10	19.271	212	2677	0.091	ng		0.00
31) Terphenyl-d14	19.870	244	1879	0.099	ng		0.00
Target Compounds							Qvalue
6) bis(2-Chloroethyl)ether	7.255	93	1418	0.101	ng		98
9) Naphthalene	10.690	128	3822	0.100	ng		95
10) Hexachlorobutadiene	11.000	225	697	0.101	ng	#	99
12) 2-Methylnaphthalene	12.313	142	2253	0.095	ng		97
16) Acenaphthylene	14.216	152	2843	0.096	ng		99
17) Acenaphthene	14.558	154	1889	0.094	ng		94
18) Fluorene	15.535	166	2276	0.093	ng		99
21) 4-Bromophenyl-phenylether	16.441	248	733	0.096	ng	#	95
22) Hexachlorobenzene	16.552	284	883	0.100	ng		99
23) Atrazine	16.701	200	426	0.088	ng	#	89
25) Phenanthrene	17.285	178	3604	0.098	ng		98
26) Anthracene	17.372	178	3046	0.093	ng		99
28) Fluoranthene	19.299	202	3689	0.091	ng		99
30) Pyrene	19.661	202	3679	0.101	ng		99
32) Benzo(a)anthracene	21.402	228	3231	0.099	ng		99
33) Chrysene	21.456	228	3549	0.102	ng		97
36) Indeno(1,2,3-cd)pyrene	26.142	276	3642	0.090	ng		97
37) Benzo(b)fluoranthene	23.048	252	3513	0.093	ng	#	82
38) Benzo(k)fluoranthene	23.092	252	3640	0.094	ng	#	73
39) Benzo(a)pyrene	23.651	252	2774	0.092	ng	#	76
40) Dibenzo(a,h)anthracene	26.159	278	2778	0.086	ng	#	79
41) Benzo(g,h,i)perylene	26.870	276	3393	0.094	ng	#	91

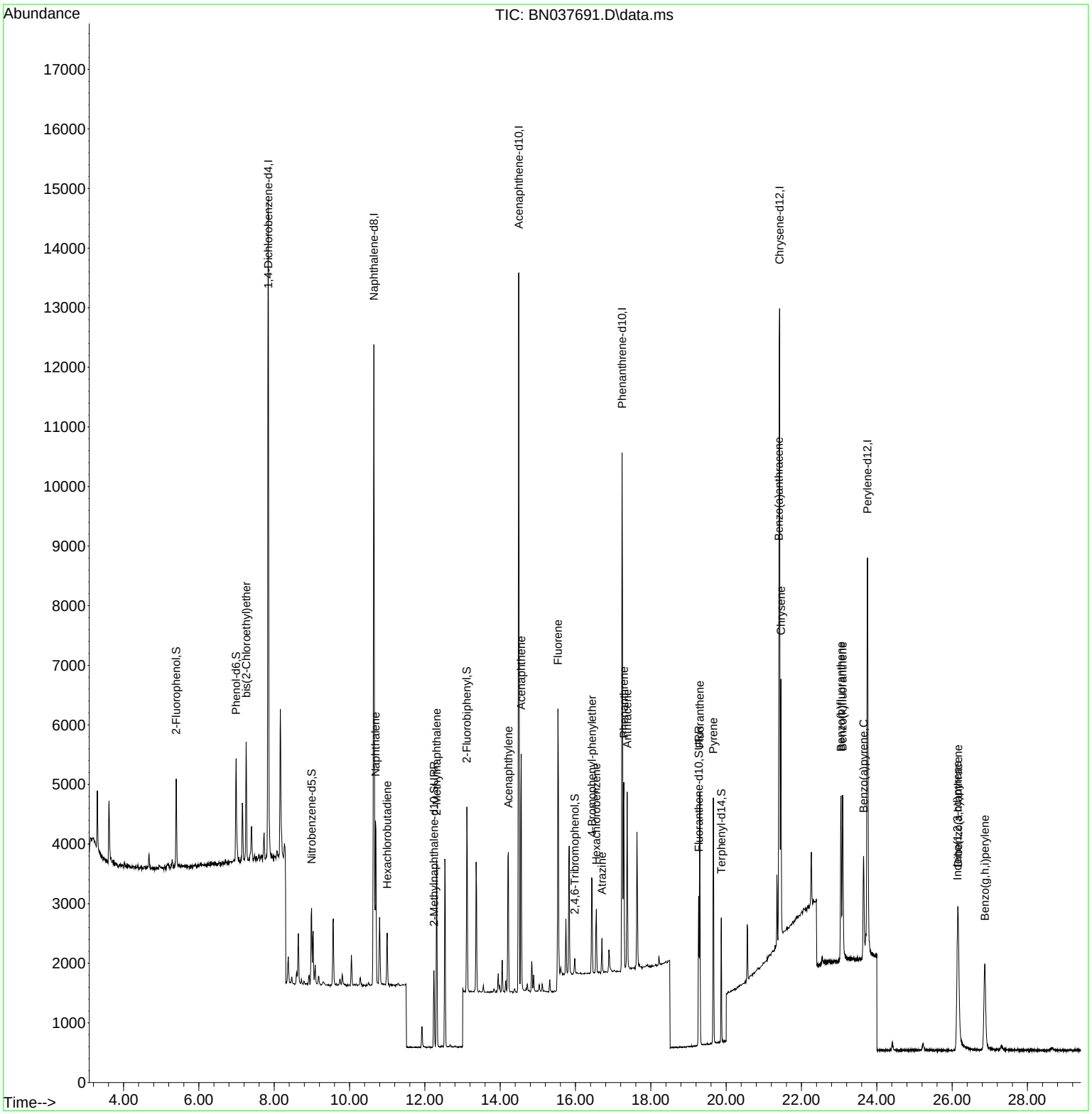
(#) = qualifier out of range (m) = manual integration (+) = signals summed

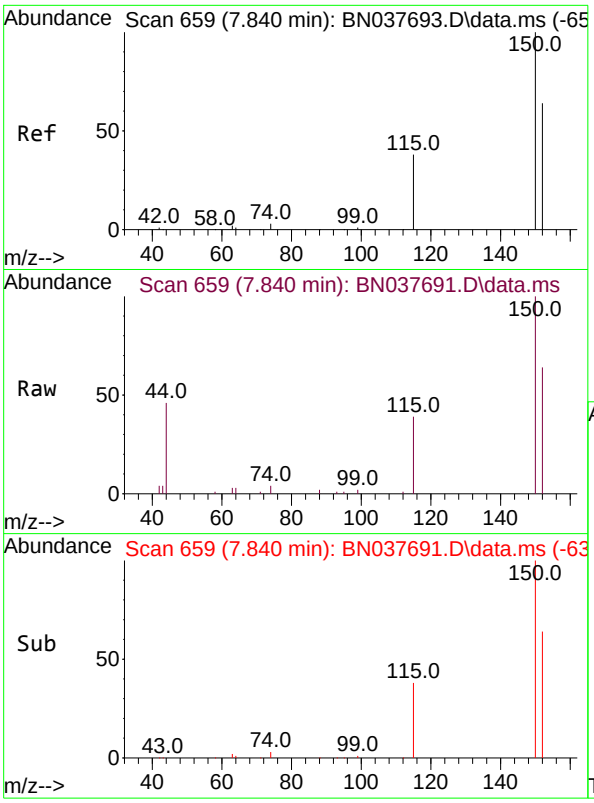
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037691.D
Acq On : 11 Sep 2025 09:56
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Sep 11 14:05:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



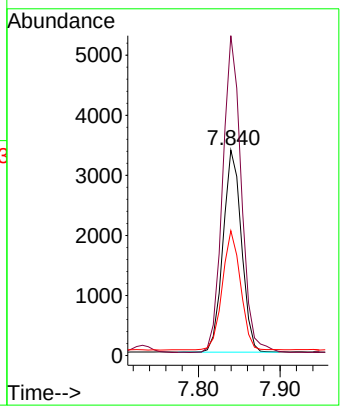


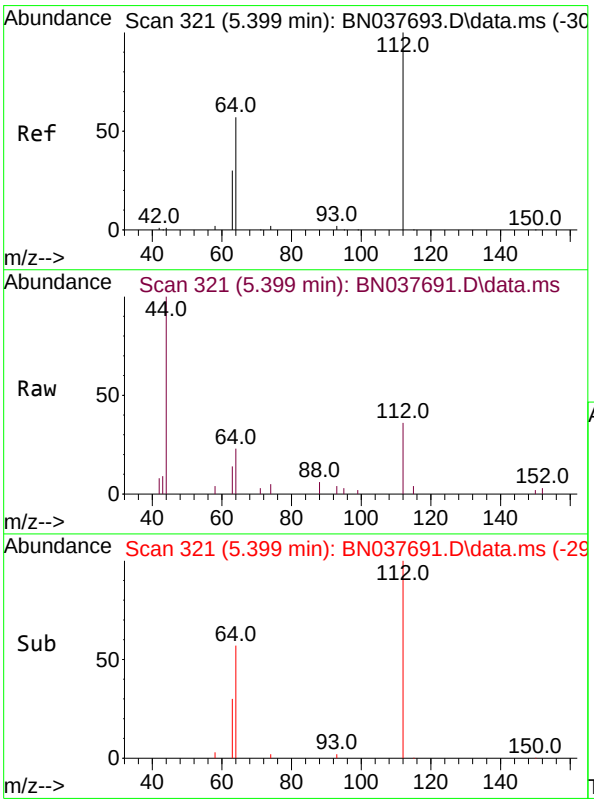
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 5271

Ion	Ratio	Lower	Upper
152	100		
150	155.8	124.5	186.7
115	60.8	49.2	73.8

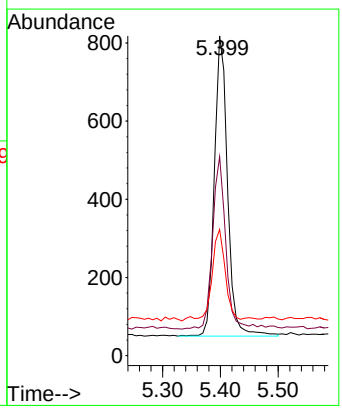


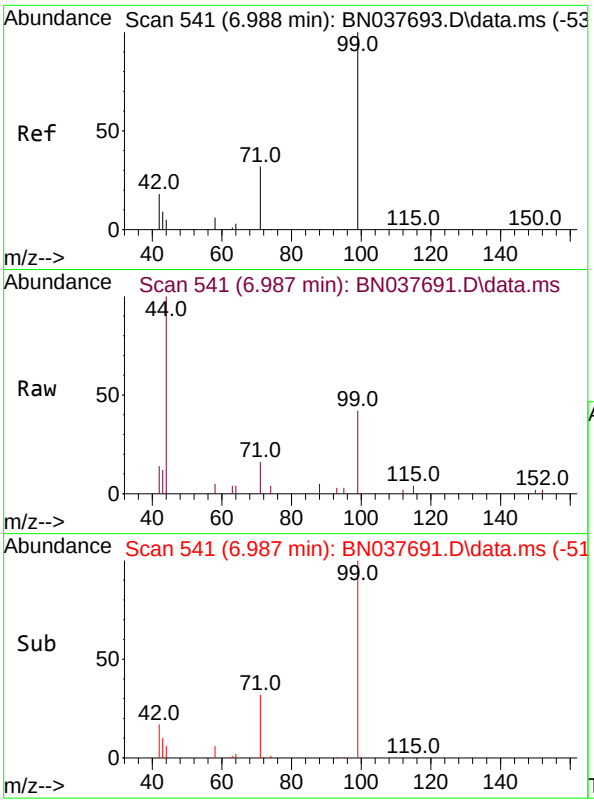


#4
2-Fluorophenol
Concen: 0.101 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:112 Resp: 1224

Ion	Ratio	Lower	Upper
112	100		
64	58.5	44.9	67.3
63	28.8	24.7	37.1



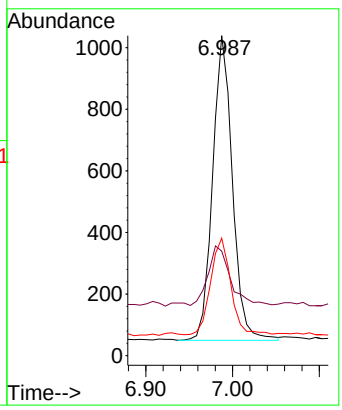


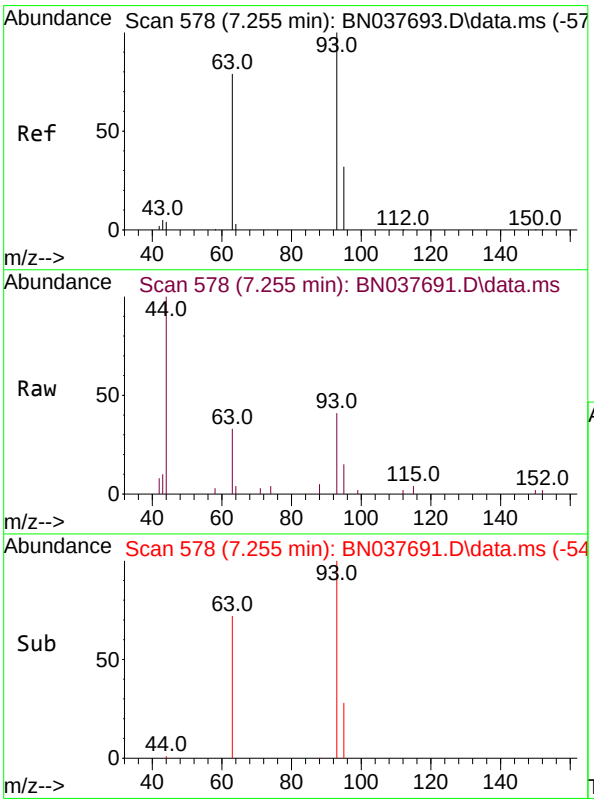
#5
Phenol-d6
Concen: 0.100 ng
RT: 6.987 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 1570

Ion	Ratio	Lower	Upper
99	100		
42	21.8	16.6	24.8
71	32.4	26.7	40.1

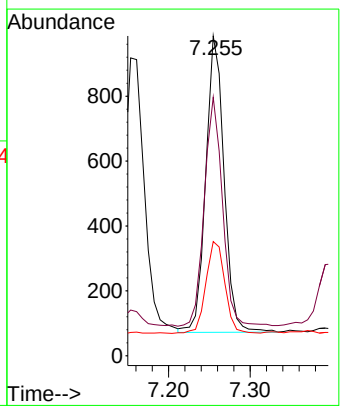


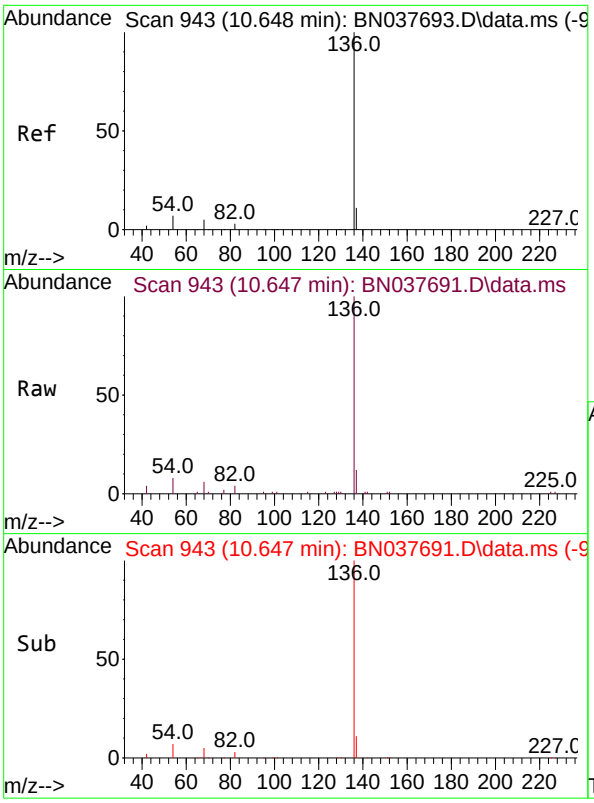


#6
bis(2-Chloroethyl)ether
Concen: 0.101 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion: 93 Resp: 1418

Ion	Ratio	Lower	Upper
93	100		
63	77.9	60.6	90.8
95	32.2	26.0	39.0



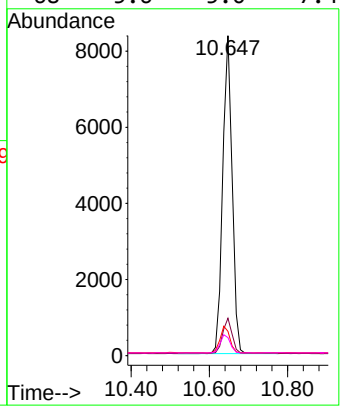


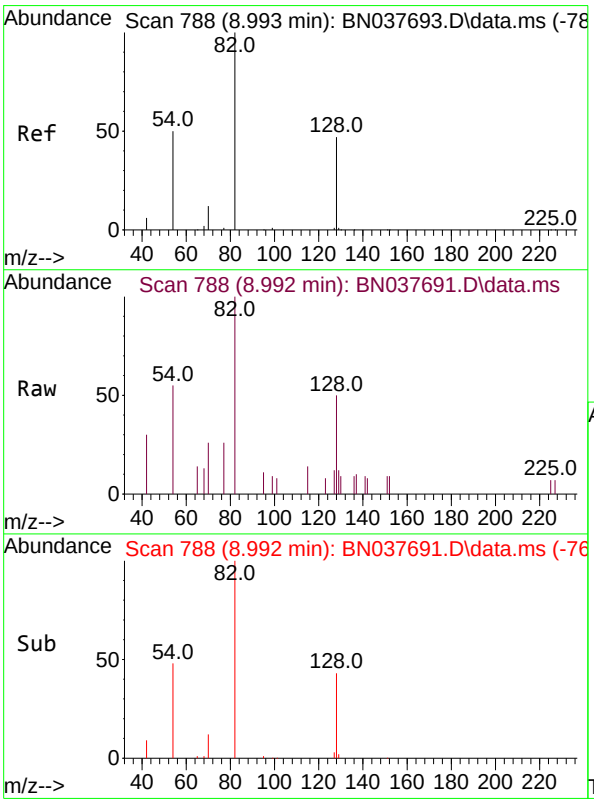
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.647 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 14013

Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.1	13.7
54	7.6	6.3	9.5
68	5.6	5.0	7.4

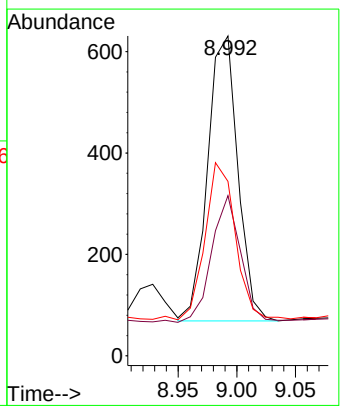


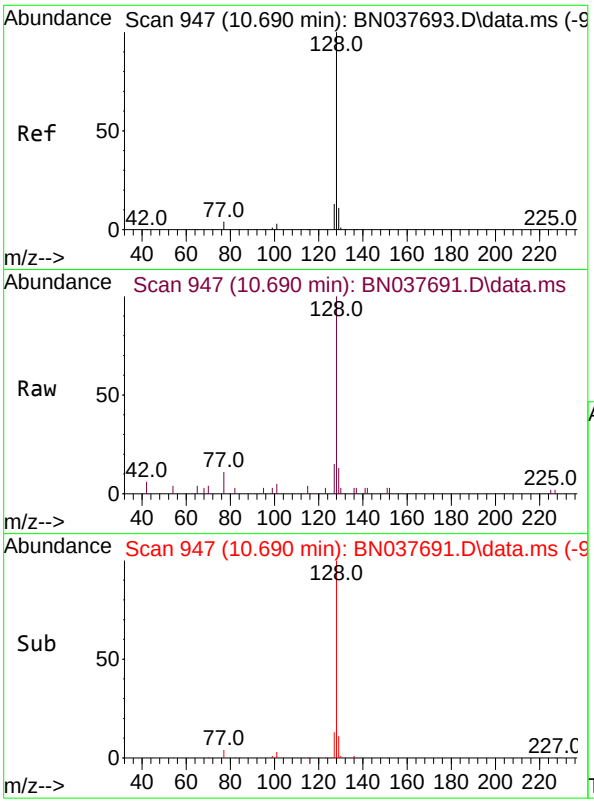


#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.992 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion: 82 Resp: 1006

Ion	Ratio	Lower	Upper
82	100		
128	50.1	38.3	57.5
54	54.5	41.4	62.2



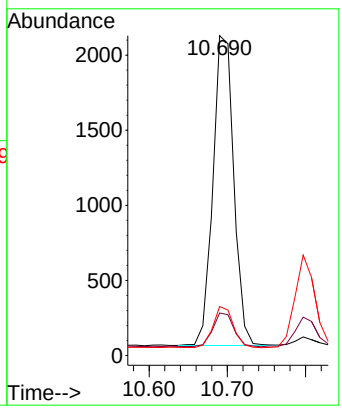


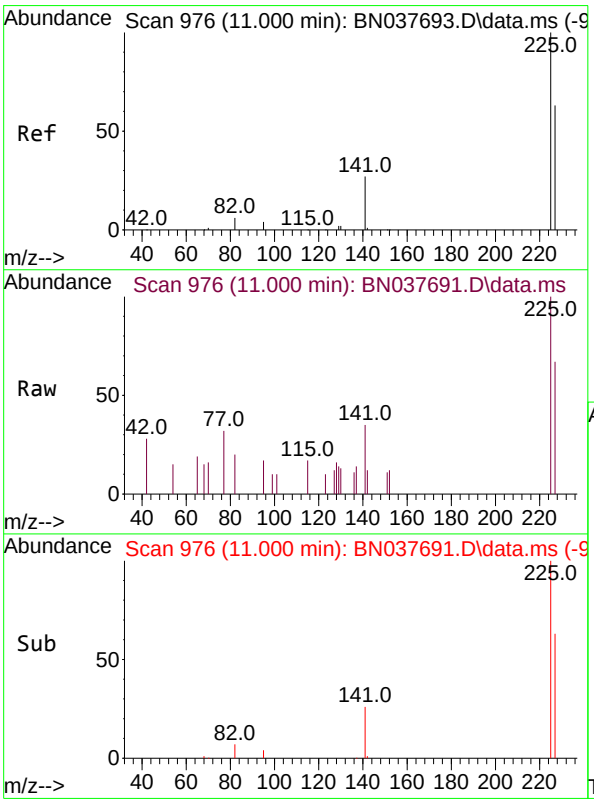
#9
Naphthalene
Concen: 0.100 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 3822

Ion	Ratio	Lower	Upper
128	100		
129	13.3	9.1	13.7
127	15.3	10.9	16.3

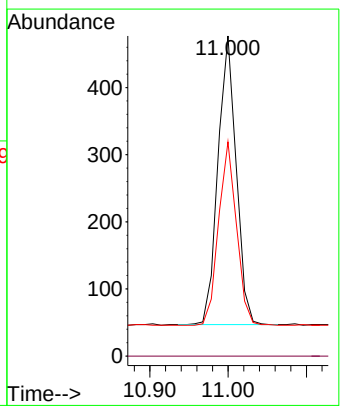


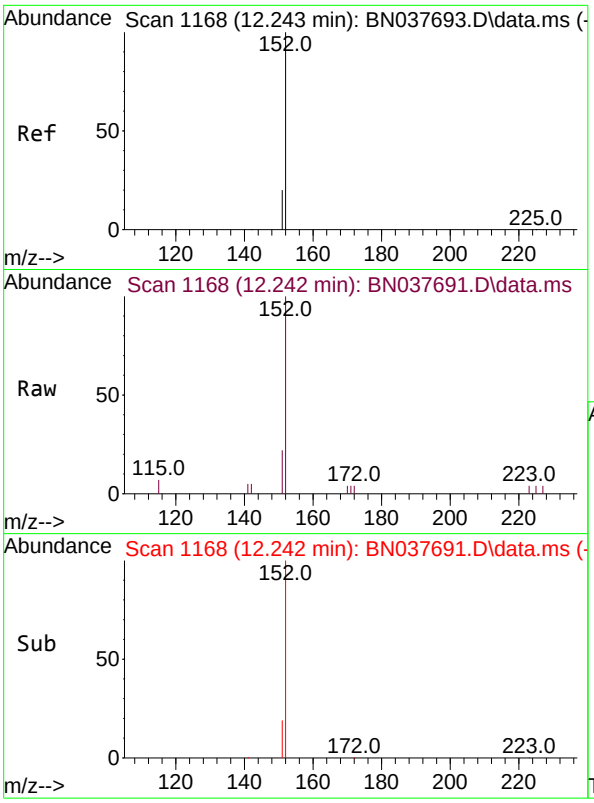


#10
Hexachlorobutadiene
Concen: 0.101 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:225 Resp: 697

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.6	50.9	76.3



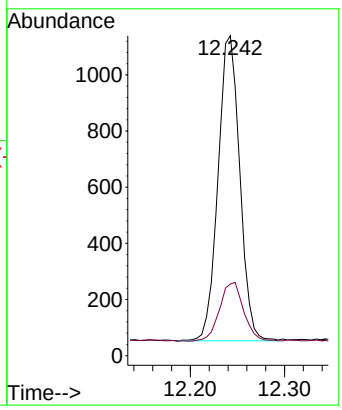


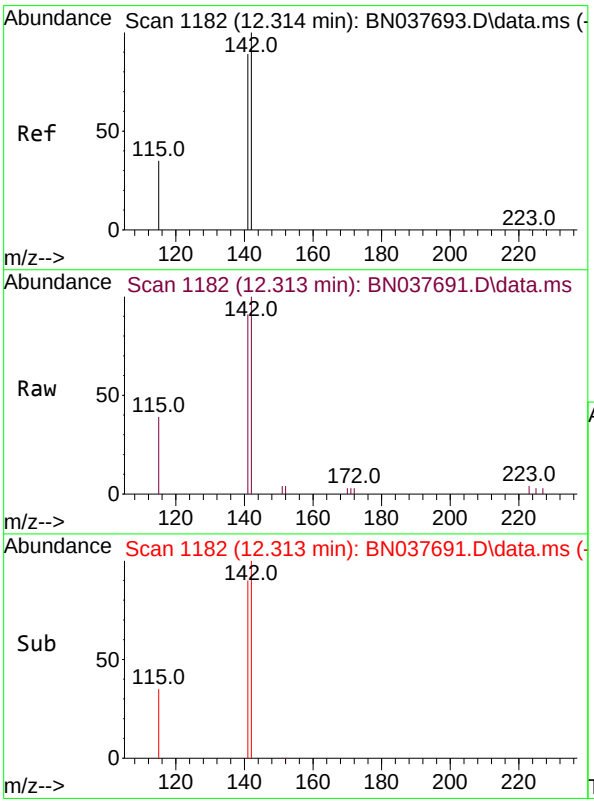
#11
2-Methylnaphthalene-d10
Concen: 0.094 ng
RT: 12.242 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 1740

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

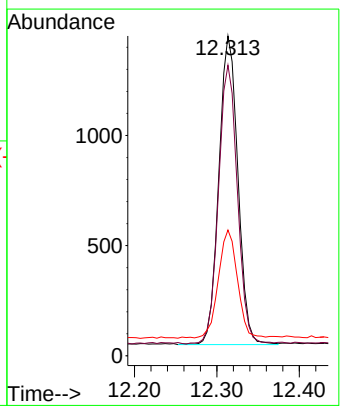


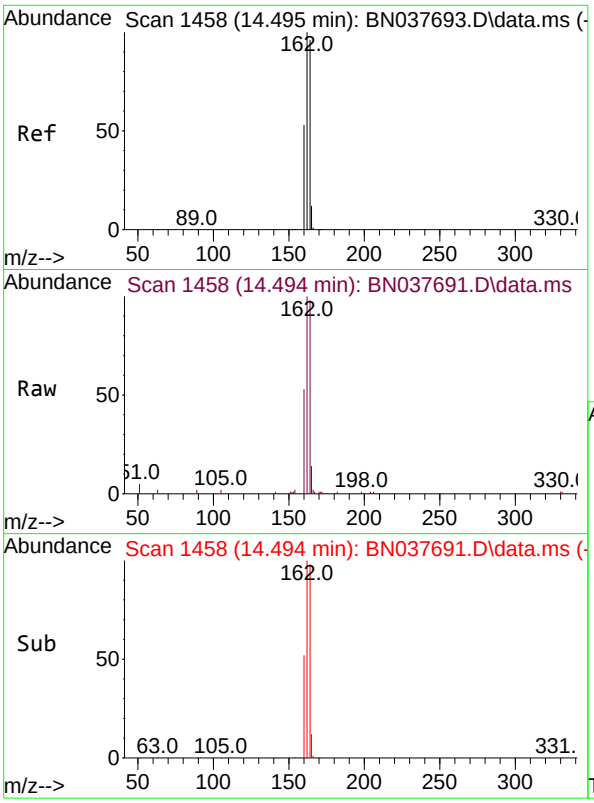


#12
2-Methylnaphthalene
Concen: 0.095 ng
RT: 12.313 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:142 Resp: 2253

Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.6	107.4
115	39.3	28.6	43.0



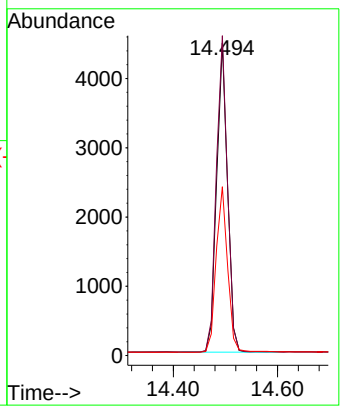


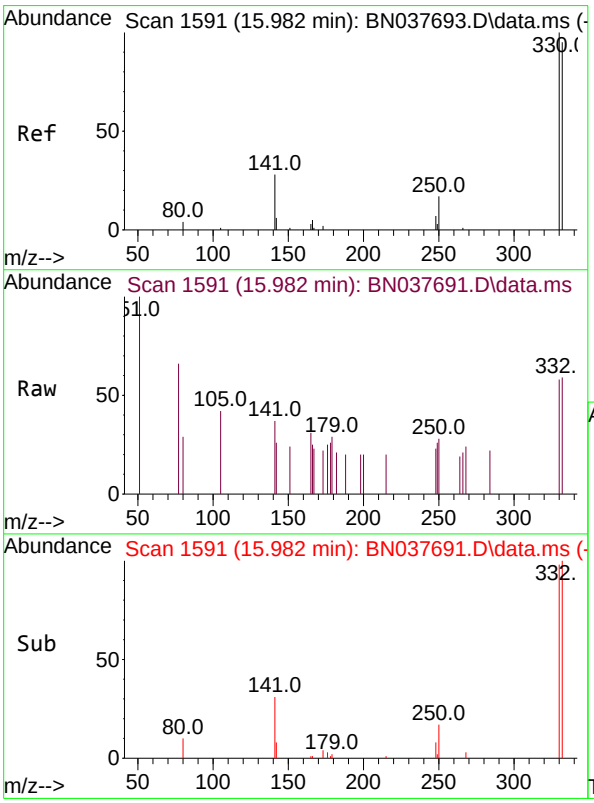
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 6484

Ion	Ratio	Lower	Upper
164	100		
162	102.4	83.1	124.7
160	54.0	44.3	66.5

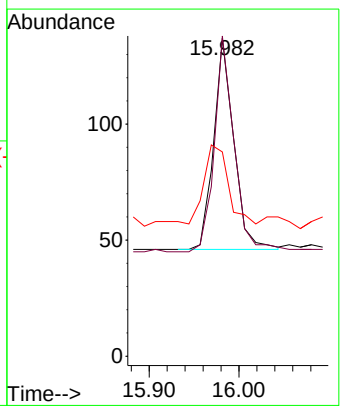


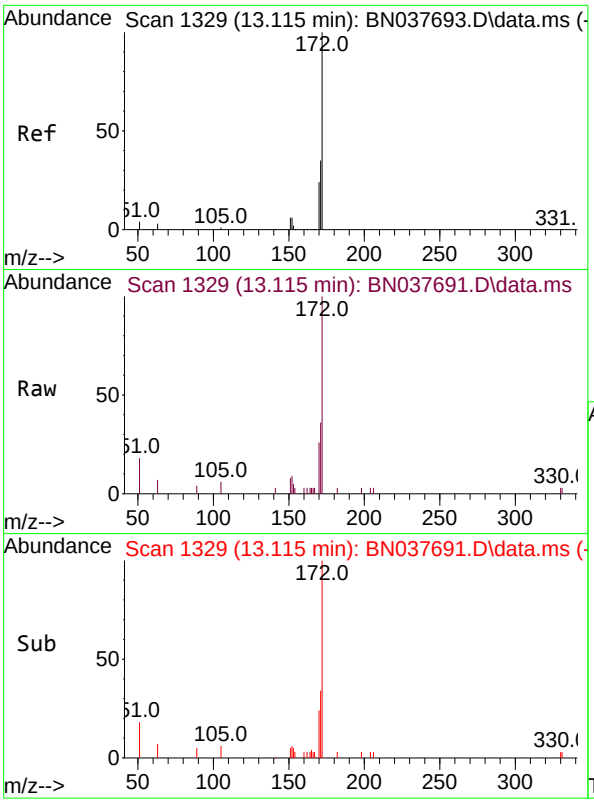


#14
2,4,6-Tribromophenol
Concen: 0.084 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:330 Resp: 142

Ion	Ratio	Lower	Upper
330	100		
332	101.4	75.3	112.9
141	44.4	35.0	52.4



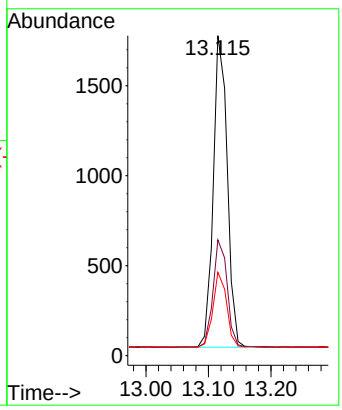


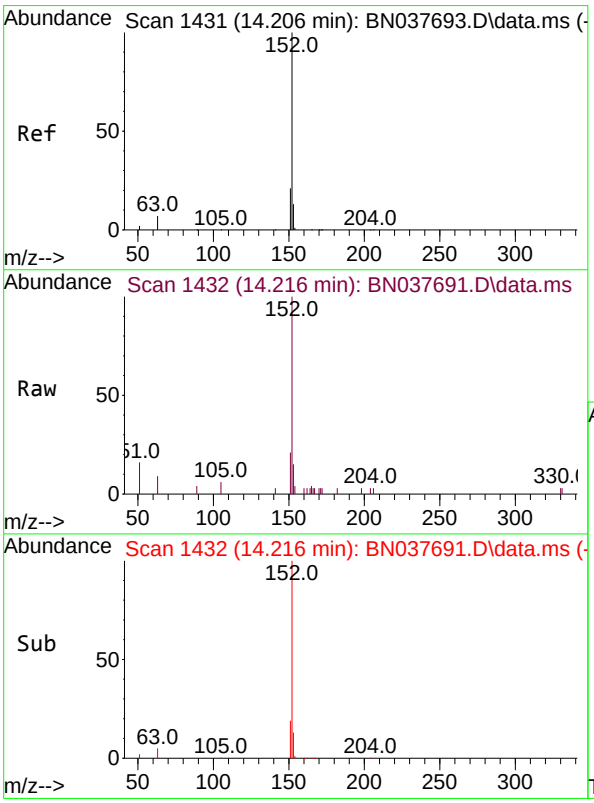
#15
2-Fluorobiphenyl
Concen: 0.099 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 2696

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	26.0	19.8	29.8

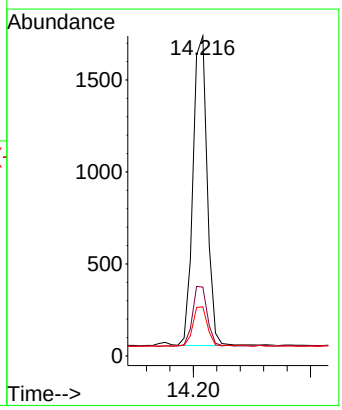


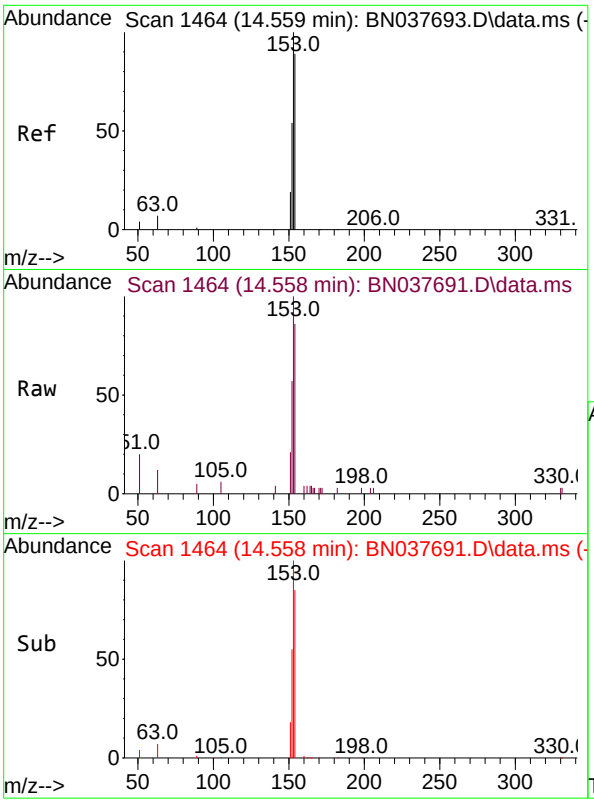


#16
Acenaphthylene
Concen: 0.096 ng
RT: 14.216 min Scan# 1432
Delta R.T. 0.010 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:152 Resp: 2843

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.2
153	13.5	10.4	15.6



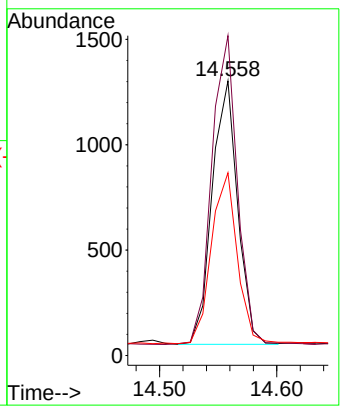


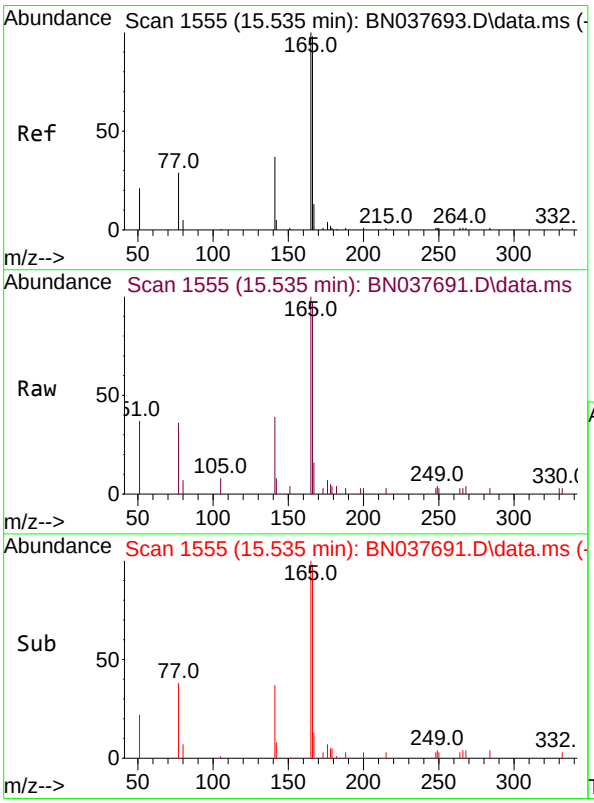
#17
Acenaphthene
Concen: 0.094 ng
RT: 14.558 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 1889

Ion	Ratio	Lower	Upper
154	100		
153	118.1	89.8	134.8
152	67.5	50.2	75.2

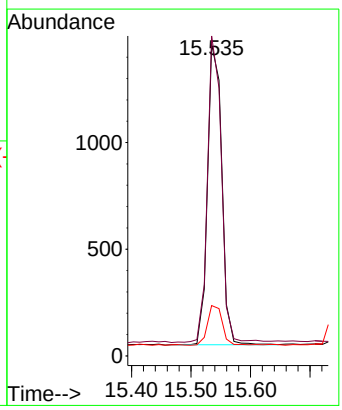


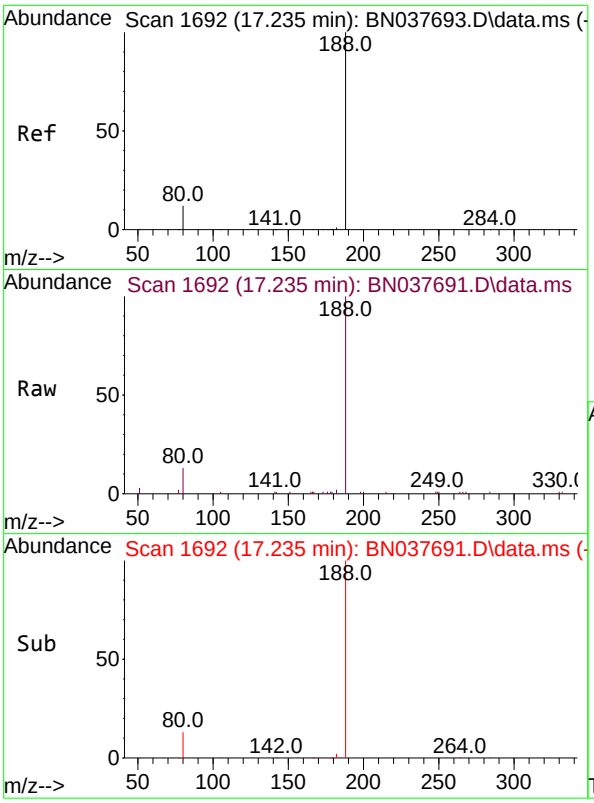


#18
Fluorene
Concen: 0.093 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:166 Resp: 2276

Ion	Ratio	Lower	Upper
166	100		
165	100.0	79.6	119.4
167	14.0	10.6	16.0



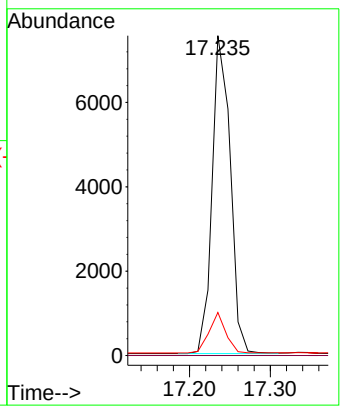


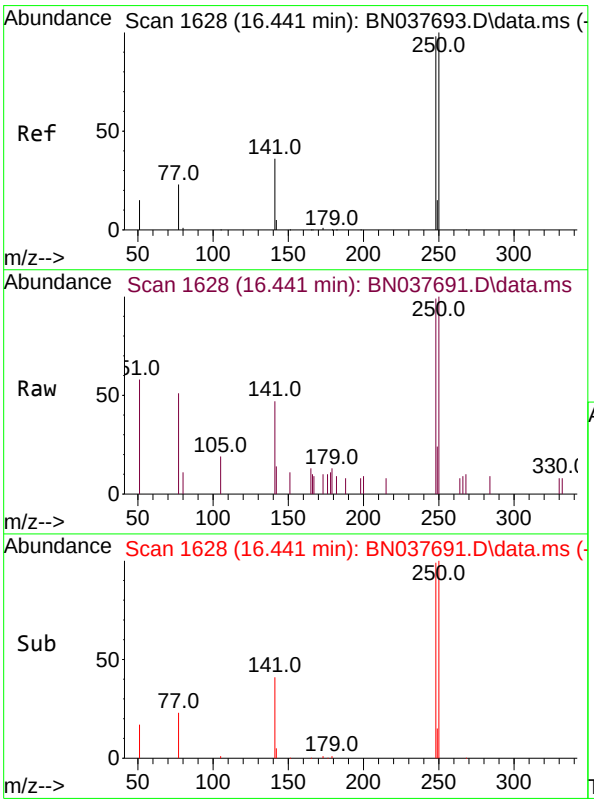
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 11736

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.5	10.6	15.8

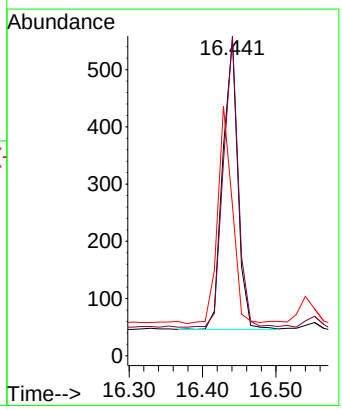


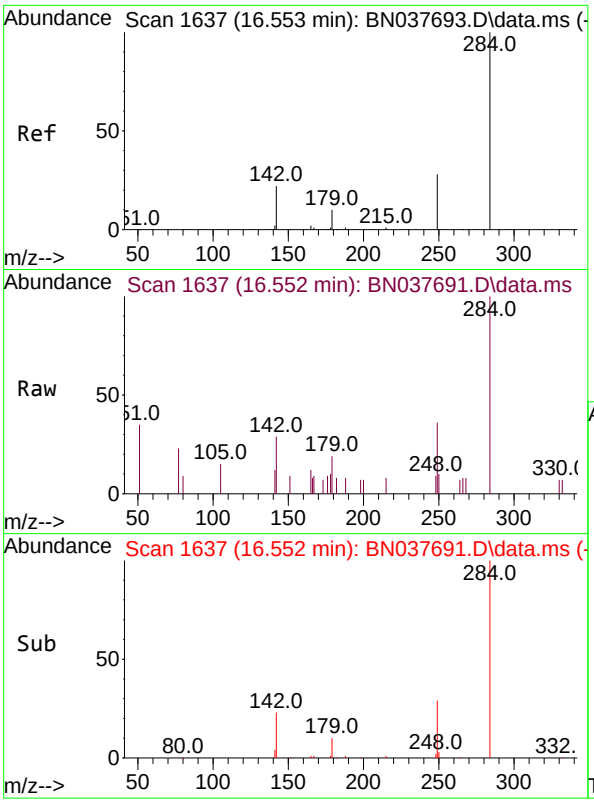


#21
4-Bromophenyl-phenylether
Concen: 0.096 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:248 Resp: 733

Ion	Ratio	Lower	Upper
248	100		
250	101.1	81.5	122.3
141	47.6	30.8	46.2#



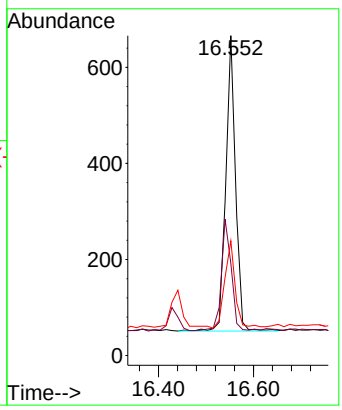


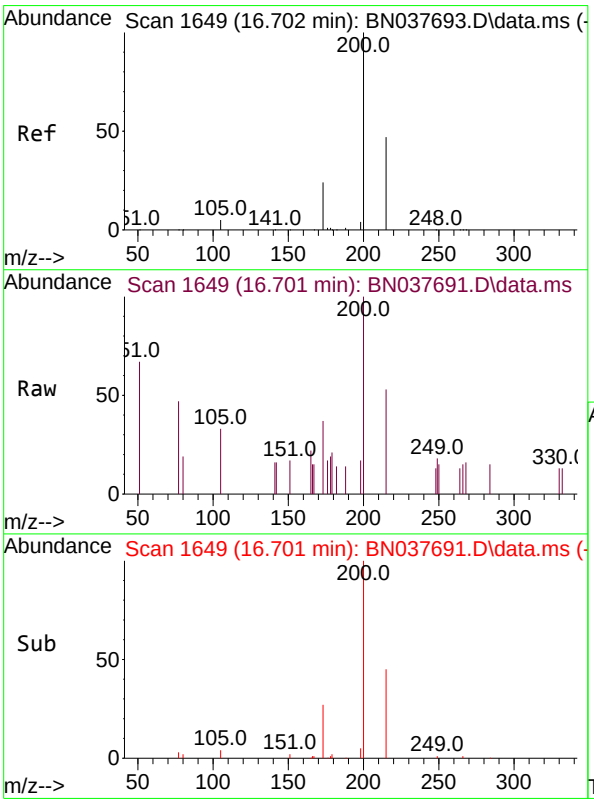
#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.552 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:284 Resp: 883

Ion	Ratio	Lower	Upper
284	100		
142	38.1	30.9	46.3
249	29.9	24.8	37.2

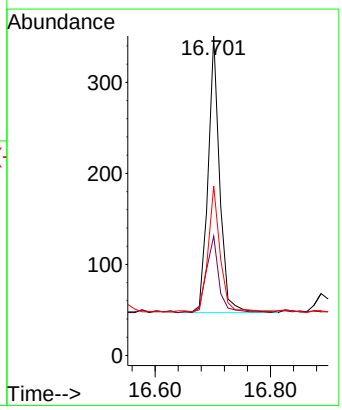


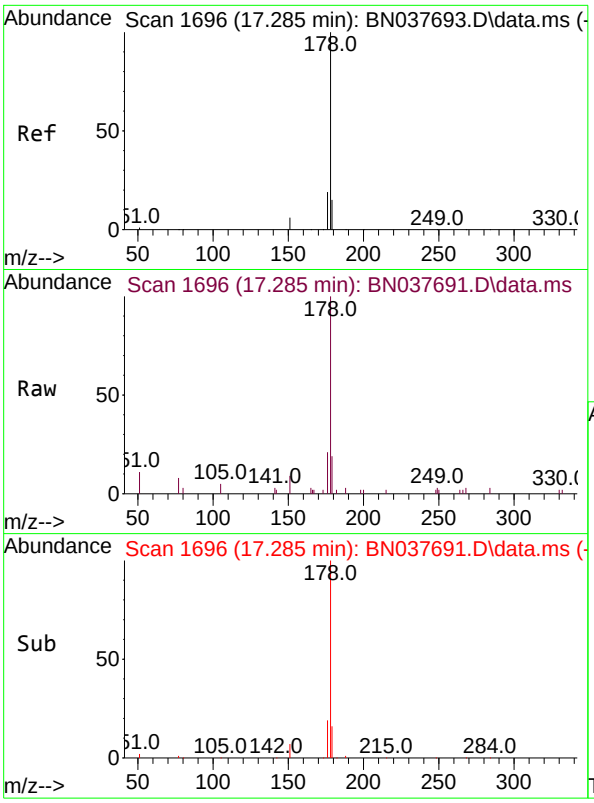


#23
Atrazine
Concen: 0.088 ng
RT: 16.701 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:200 Resp: 426

Ion	Ratio	Lower	Upper
200	100		
173	37.3	21.4	32.2#
215	53.0	39.2	58.8



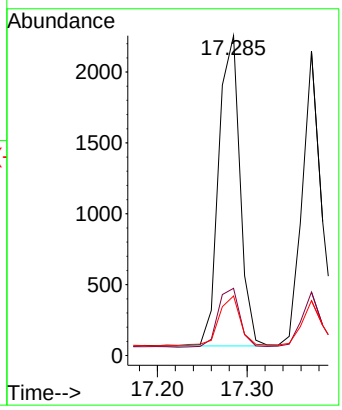


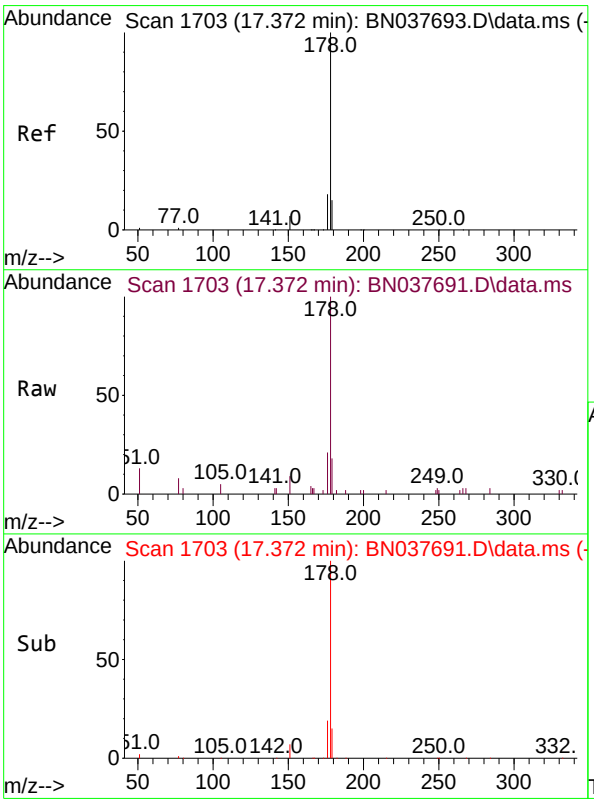
#25
Phenanthrene
Concen: 0.098 ng
RT: 17.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 3604

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.3	22.9
179	16.6	12.2	18.2

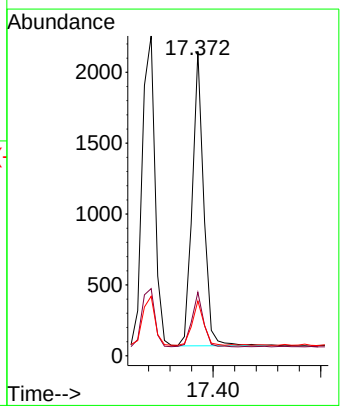


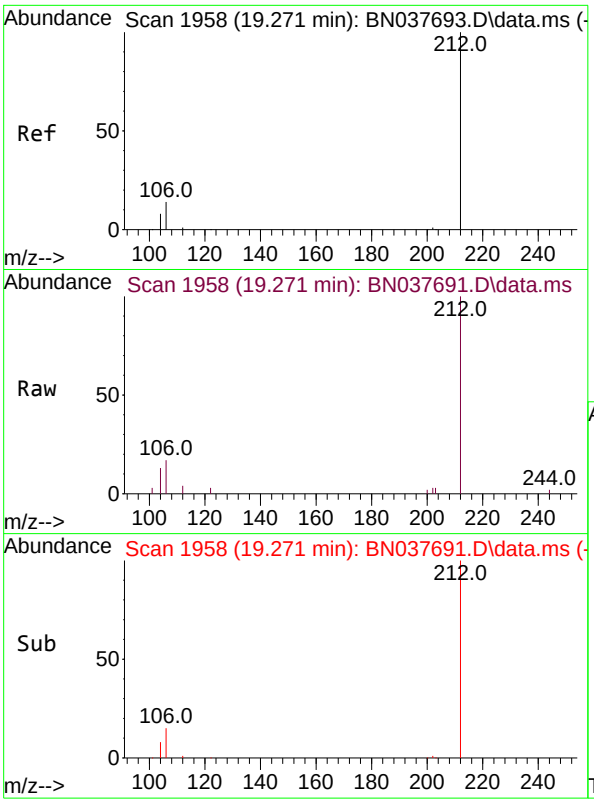


#26
Anthracene
Concen: 0.093 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:178 Resp: 3046

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	22.0
179	15.1	12.2	18.4



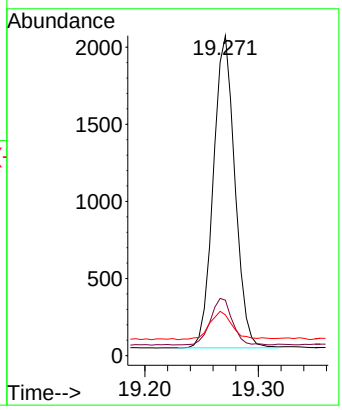


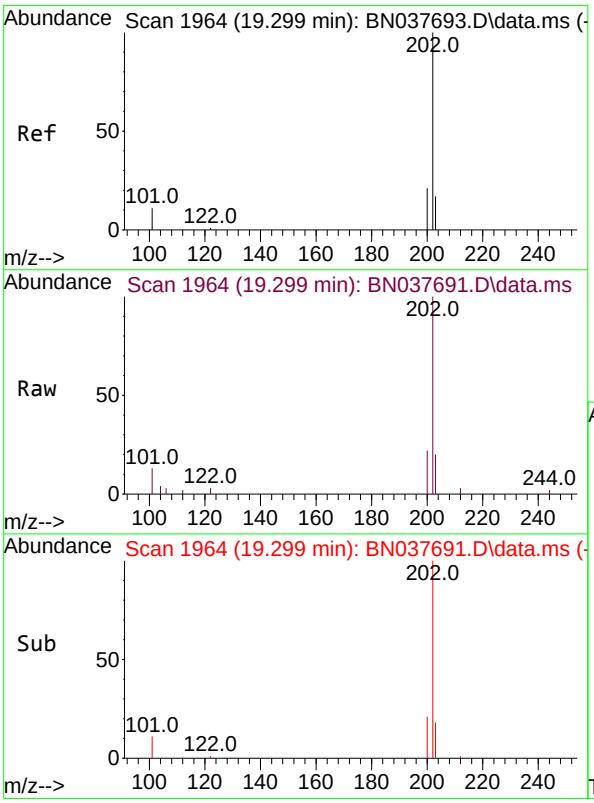
#27
Fluoranthene-d10
Concen: 0.091 ng
RT: 19.271 min Scan# 19
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 2677

Ion	Ratio	Lower	Upper
212	100		
106	14.9	12.2	18.2
104	9.4	6.9	10.3

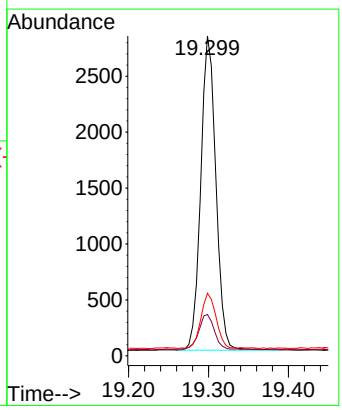


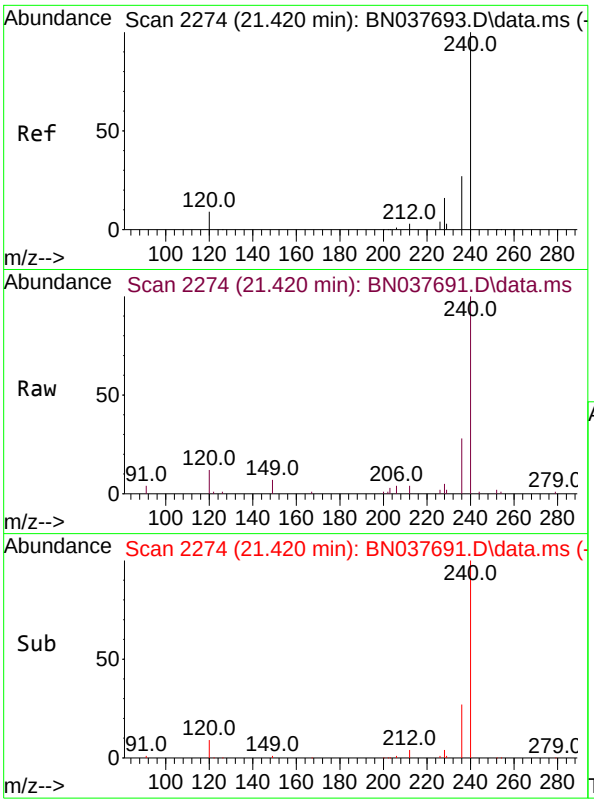


#28
Fluoranthene
Concen: 0.091 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:202 Resp: 3689

Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.3	13.9
203	17.5	13.7	20.5



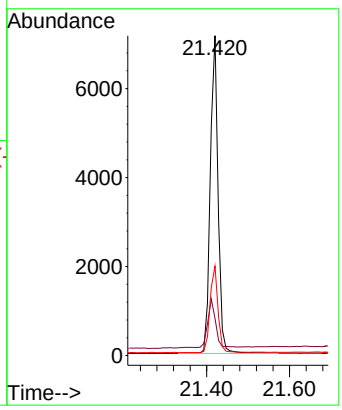


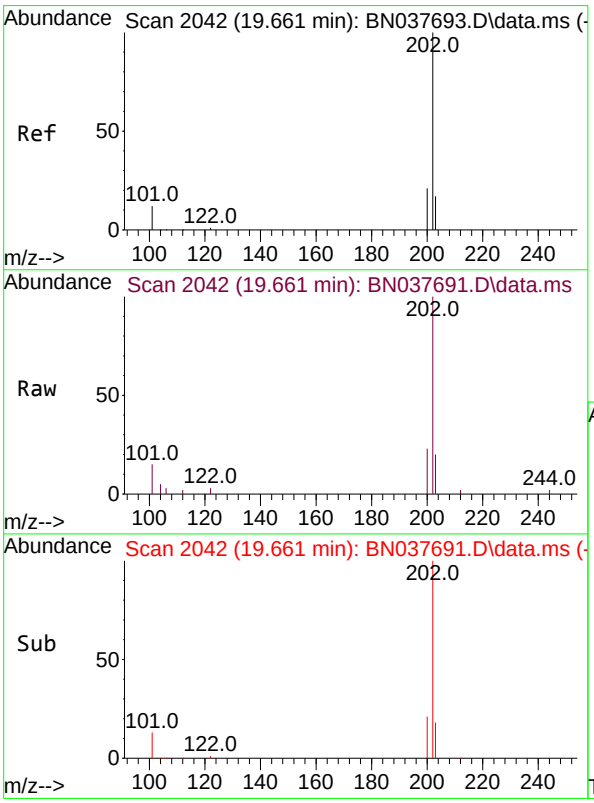
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 9323

Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.2	13.8
236	28.0	22.6	33.8

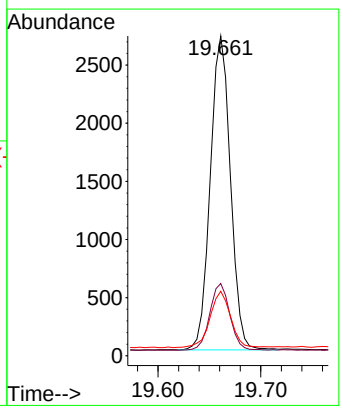


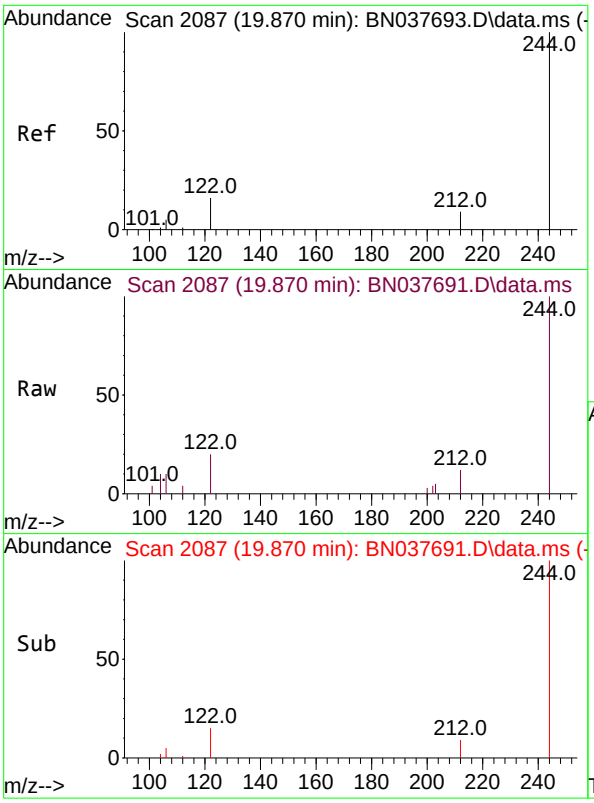


#30
Pyrene
Concen: 0.101 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:202 Resp: 3679

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	18.4	14.3	21.5



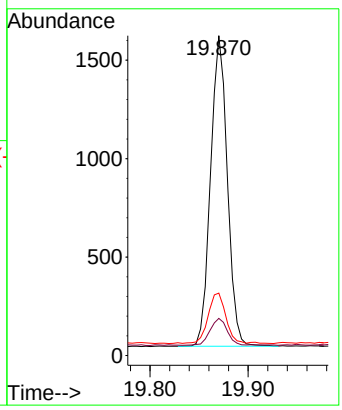


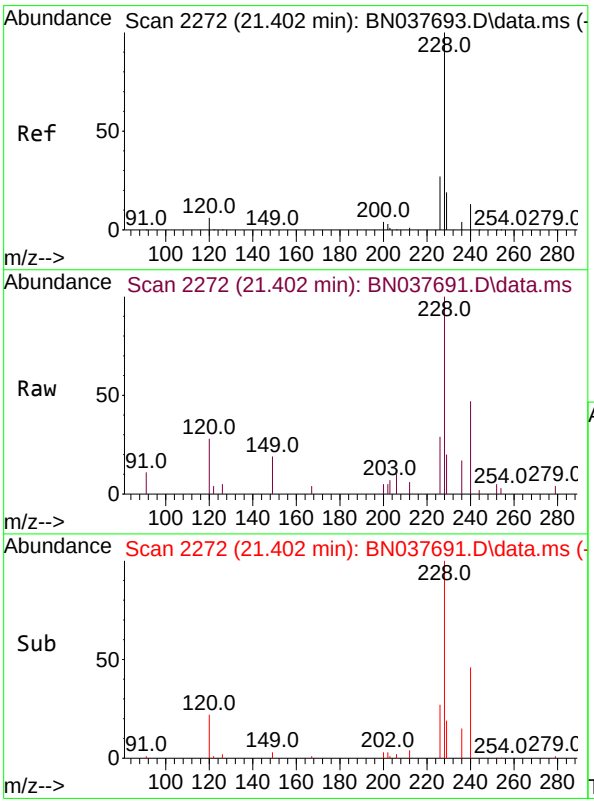
#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.870 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 1879

Ion	Ratio	Lower	Upper
244	100		
212	11.6	7.5	11.3#
122	19.5	13.2	19.8

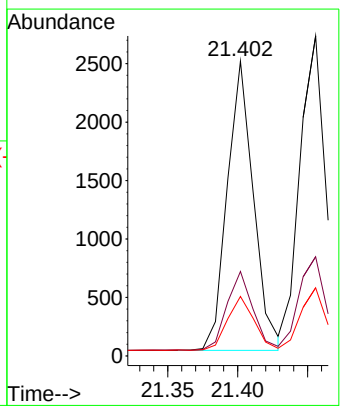


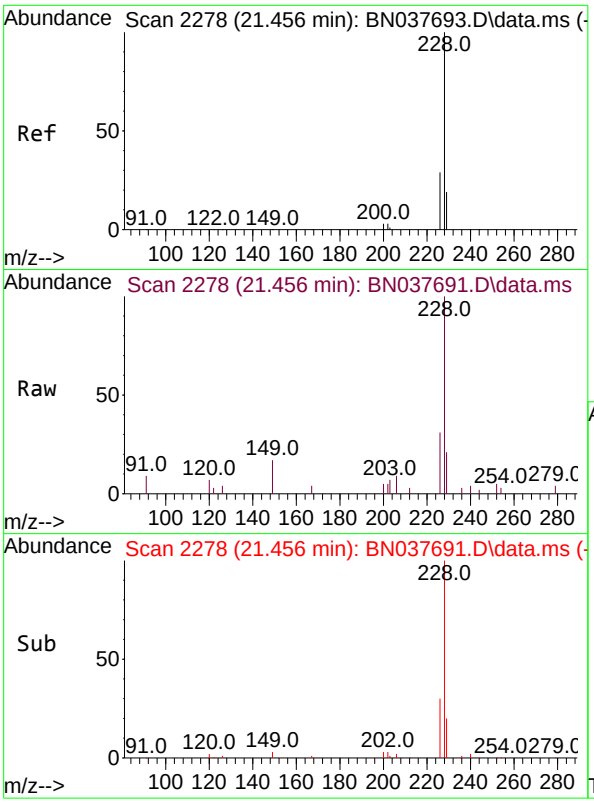


#32
Benzo(a)anthracene
Concen: 0.099 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:228 Resp: 3231

Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.2	33.2
229	20.2	15.8	23.6



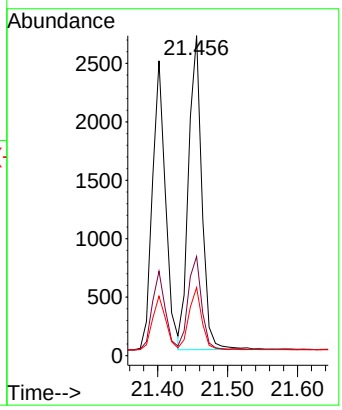


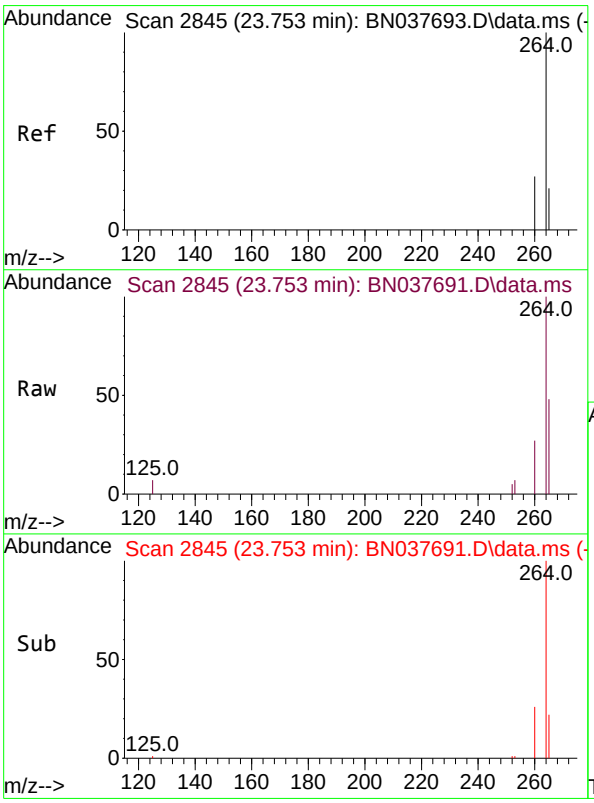
#33
Chrysene
Concen: 0.102 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 3549

Ion	Ratio	Lower	Upper
228	100		
226	31.0	23.5	35.3
229	21.3	15.9	23.9

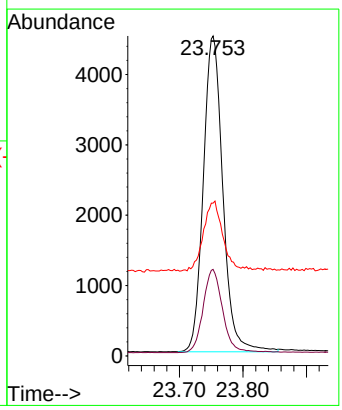


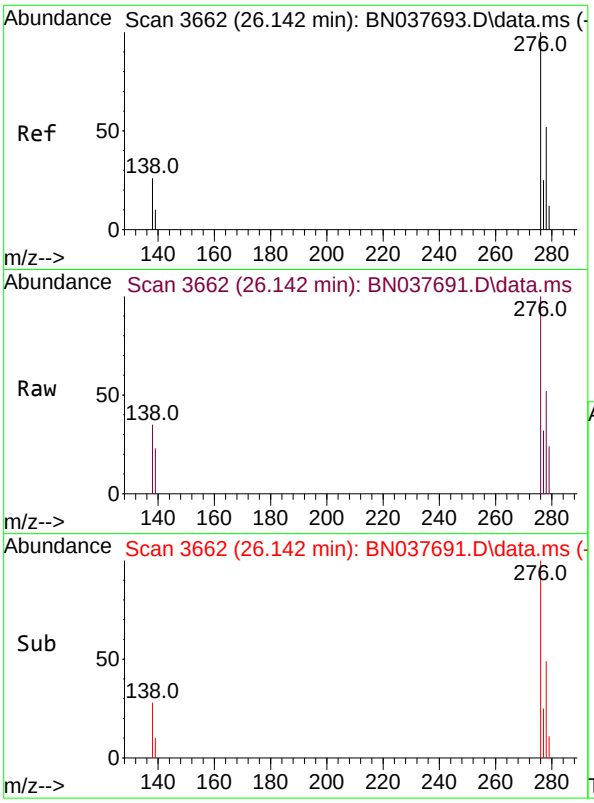


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 2845
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:264 Resp: 9603

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.8	32.8
265	47.7	39.4	59.2



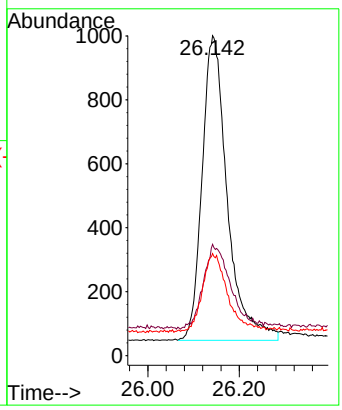


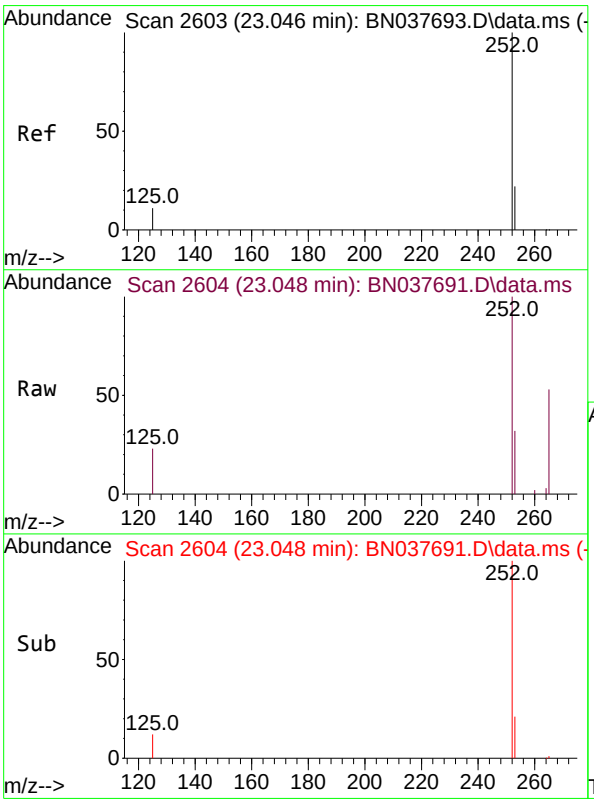
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.090 ng
RT: 26.142 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 3642

Ion	Ratio	Lower	Upper
276	100		
138	29.4	21.9	32.9
277	23.8	20.1	30.1

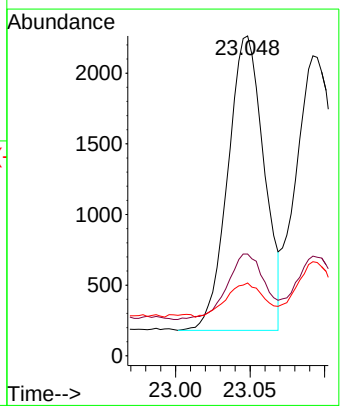


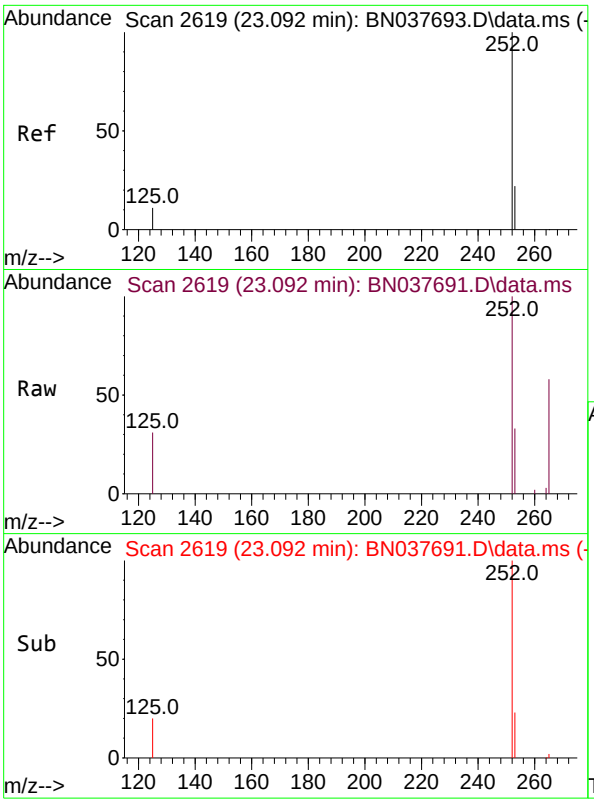


#37
Benzo(b)fluoranthene
Concen: 0.093 ng
RT: 23.048 min Scan# 2604
Delta R.T. 0.003 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:252 Resp: 3513

Ion	Ratio	Lower	Upper
252	100		
253	31.8	19.4	29.2#
125	22.8	11.2	16.8#



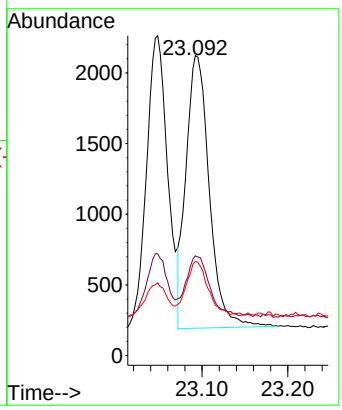


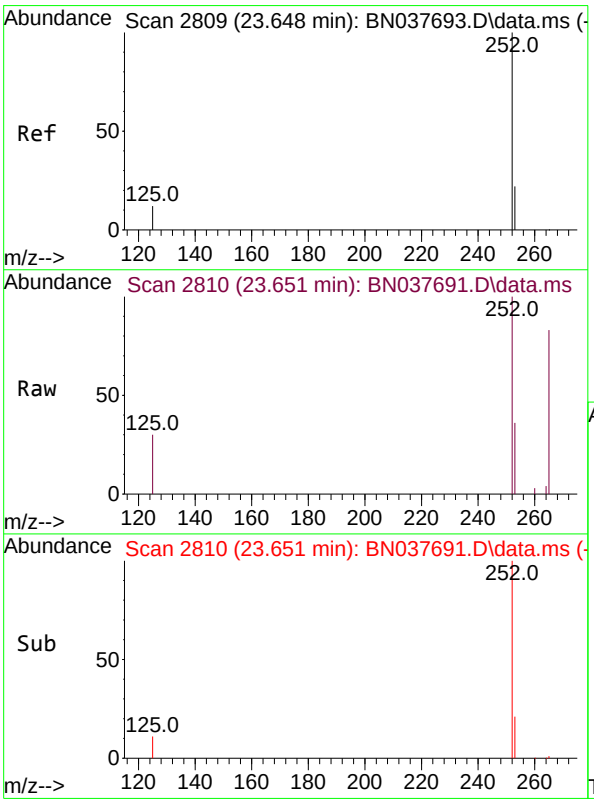
#38
Benzo(k)fluoranthene
Concen: 0.094 ng
RT: 23.092 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 3640

Ion	Ratio	Lower	Upper
252	100		
253	33.3	19.4	29.0#
125	31.4	11.6	17.4#

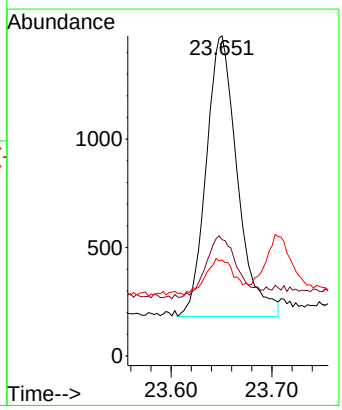


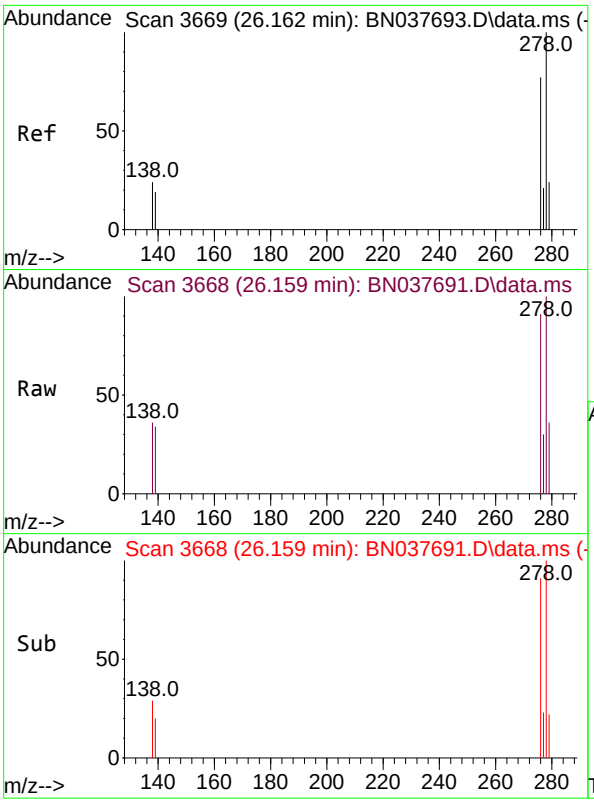


#39
Benzo(a)pyrene
Concen: 0.092 ng
RT: 23.651 min Scan# 2810
Delta R.T. 0.003 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:252 Resp: 2774

Ion	Ratio	Lower	Upper
252	100		
253	36.3	20.8	31.2#
125	30.0	13.9	20.9#



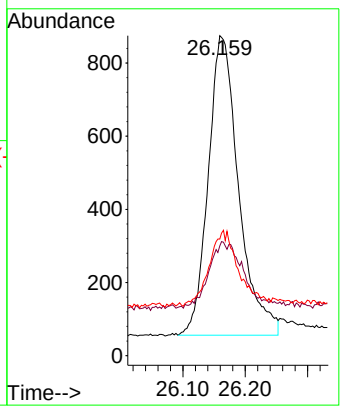


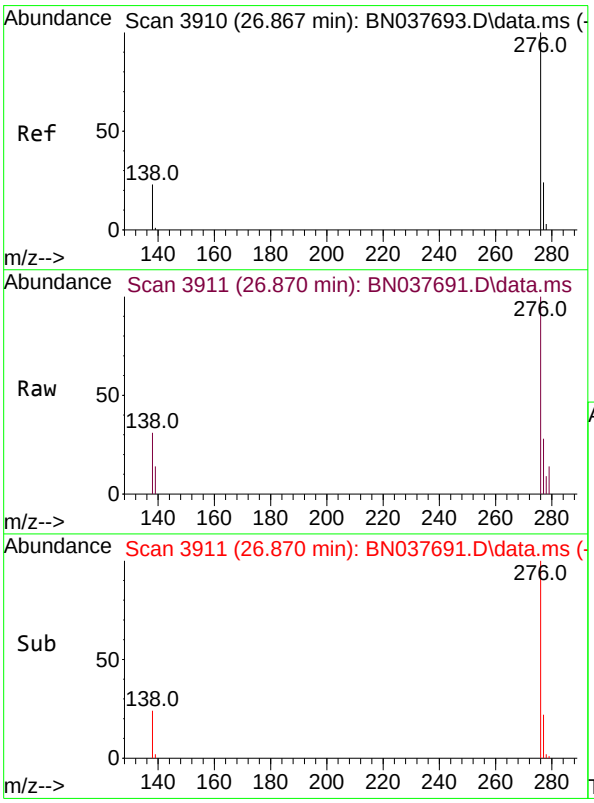
#40
Dibenzo(a,h)anthracene
Concen: 0.086 ng
RT: 26.159 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:278 Resp: 2778

Ion	Ratio	Lower	Upper
278	100		
139	34.3	17.8	26.6#
279	36.5	22.0	33.0#

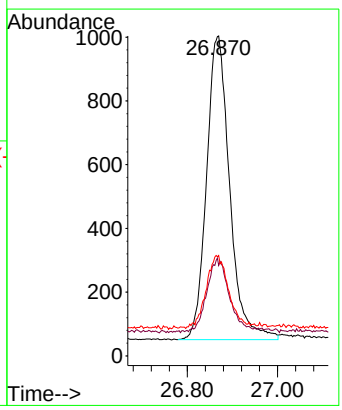




#41
Benzo(g,h,i)perylene
Concen: 0.094 ng
RT: 26.870 min Scan# 3911
Delta R.T. 0.003 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:276 Resp: 3393

Ion	Ratio	Lower	Upper
276	100		
277	28.3	20.6	31.0
138	31.4	20.2	30.2#



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037692.D
Acq On : 11 Sep 2025 10:32
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 14:05:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.840	152	5547	0.400	ng		0.00
7) Naphthalene-d8	10.648	136	15018	0.400	ng		0.00
13) Acenaphthene-d10	14.494	164	6952	0.400	ng		0.00
19) Phenanthrene-d10	17.235	188	12385	0.400	ng		0.00
29) Chrysene-d12	21.420	240	9324	0.400	ng		0.00
35) Perylene-d12	23.753	264	9364	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.399	112	2533	0.199	ng		0.00
5) Phenol-d6	6.988	99	3308	0.200	ng		0.00
8) Nitrobenzene-d5	8.993	82	2098	0.191	ng		0.00
11) 2-Methylnaphthalene-d10	12.243	152	3732	0.188	ng		0.00
14) 2,4,6-Tribromophenol	15.982	330	340	0.188	ng		0.00
15) 2-Fluorobiphenyl	13.115	172	5791	0.199	ng		0.00
27) Fluoranthene-d10	19.271	212	5492	0.177	ng		0.00
31) Terphenyl-d14	19.870	244	3884	0.205	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.304	88	1189	0.206	ng		99
3) n-Nitrosodimethylamine	3.608	42	1470	0.195	ng	#	93
6) bis(2-Chloroethyl)ether	7.255	93	2982	0.202	ng		100
9) Naphthalene	10.701	128	8051	0.196	ng		99
10) Hexachlorobutadiene	11.000	225	1472	0.198	ng	#	100
12) 2-Methylnaphthalene	12.314	142	4889	0.193	ng		100
16) Acenaphthylene	14.216	152	6105	0.191	ng		98
17) Acenaphthene	14.559	154	4168	0.193	ng		98
18) Fluorene	15.535	166	4875	0.187	ng		97
20) 4,6-Dinitro-2-methylph...	15.609	198	201	0.175	ng	#	58
21) 4-Bromophenyl-phenylether	16.441	248	1560	0.193	ng		97
22) Hexachlorobenzene	16.553	284	1906	0.205	ng		99
23) Atrazine	16.702	200	932	0.181	ng		96
24) Pentachlorophenol	16.888	266	461	0.171	ng		98
25) Phenanthrene	17.285	178	7526	0.193	ng		98
26) Anthracene	17.372	178	6375	0.185	ng		99
28) Fluoranthene	19.299	202	7577	0.177	ng		100
30) Pyrene	19.661	202	7543	0.207	ng		99
32) Benzo(a)anthracene	21.402	228	6270	0.193	ng		99
33) Chrysene	21.456	228	6953	0.199	ng		98
34) Bis(2-ethylhexyl)phtha...	21.348	149	2049	0.213	ng	#	97
36) Indeno(1,2,3-cd)pyrene	26.142	276	6982	0.177	ng		99
37) Benzo(b)fluoranthene	23.046	252	6907	0.187	ng	#	93
38) Benzo(k)fluoranthene	23.092	252	7226m	0.192	ng		
39) Benzo(a)pyrene	23.651	252	5489	0.186	ng	#	92
40) Dibenzo(a,h)anthracene	26.165	278	5503	0.175	ng	#	90
41) Benzo(g,h,i)perylene	26.864	276	6566	0.186	ng		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

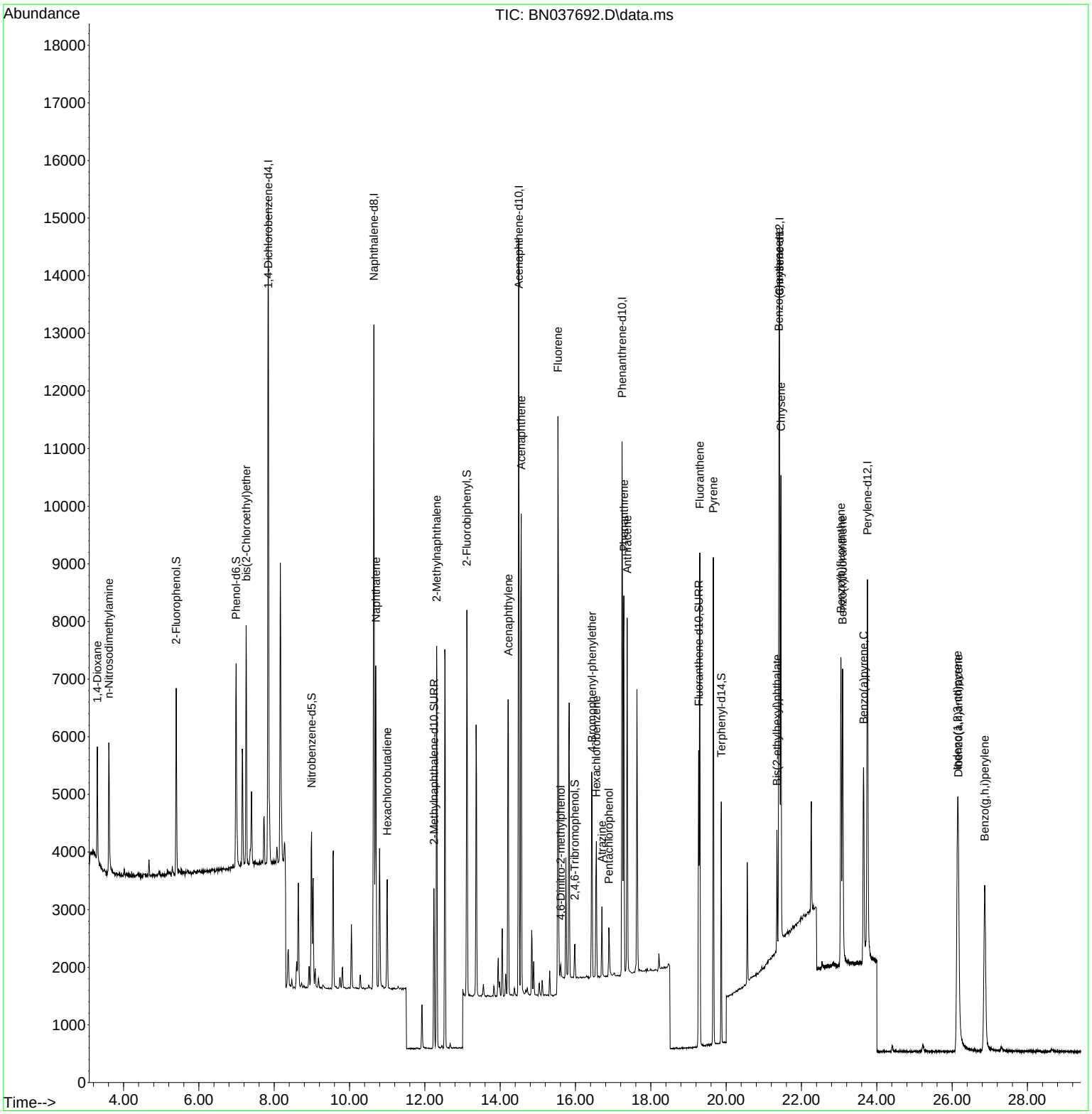
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037692.D
Acq On : 11 Sep 2025 10:32
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

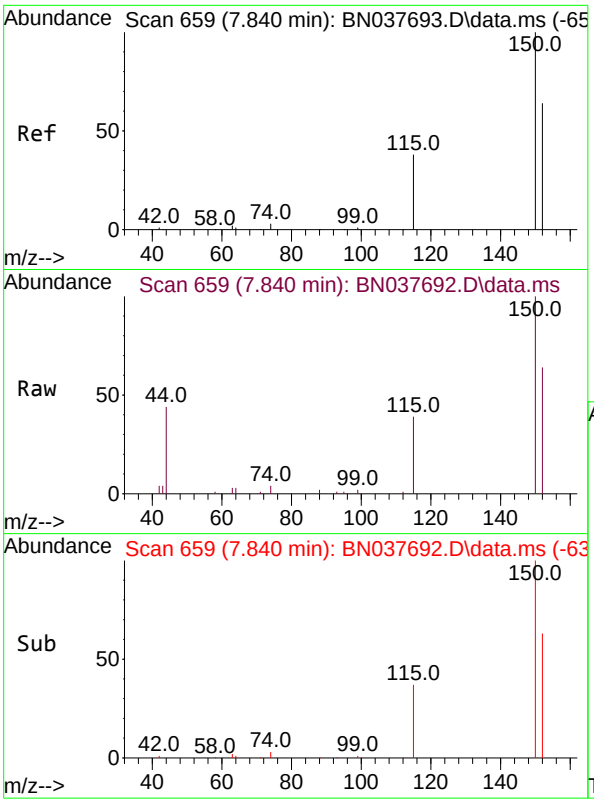
Quant Time: Sep 11 14:05:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

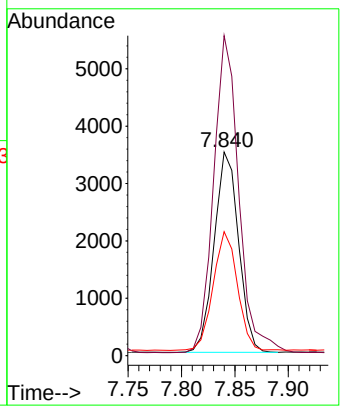




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:152 Resp: 554

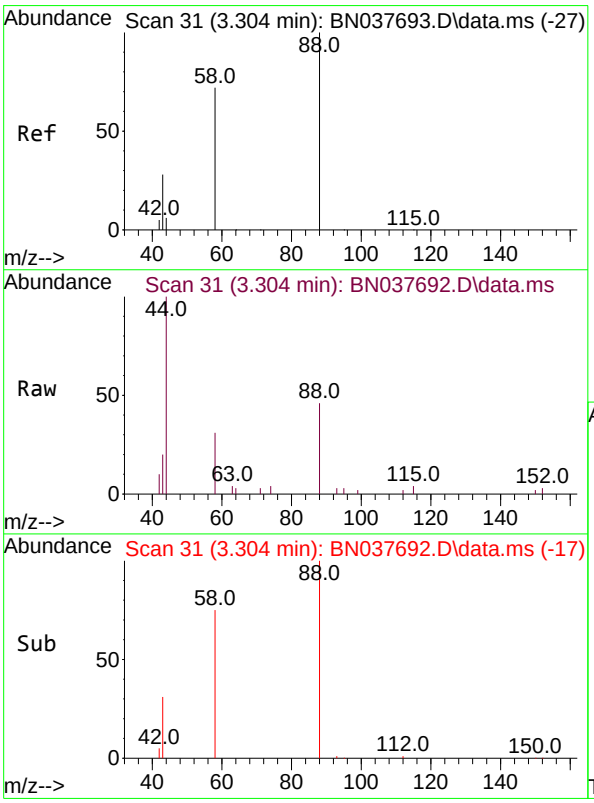
Ion	Ratio	Lower	Upper
152	100		
150	157.2	124.5	186.7
115	60.9	49.2	73.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

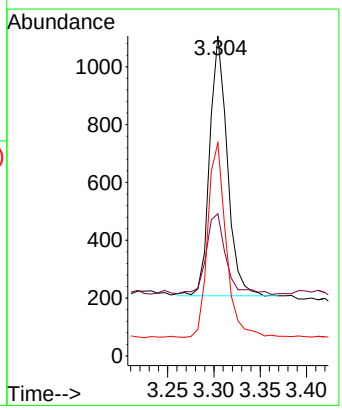
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

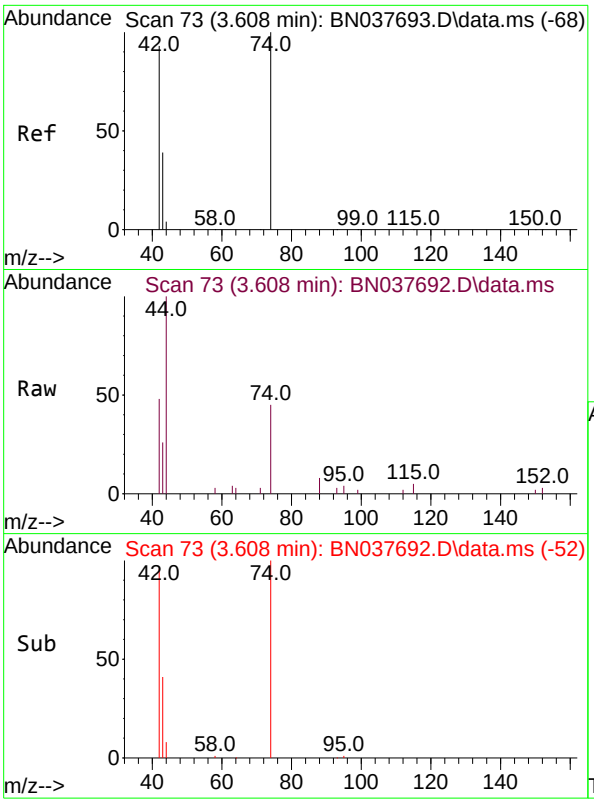


#2
1,4-Dioxane
Concen: 0.206 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 88 Resp: 1189

Ion	Ratio	Lower	Upper
88	100		
43	34.1	26.8	40.2
58	78.4	61.9	92.9

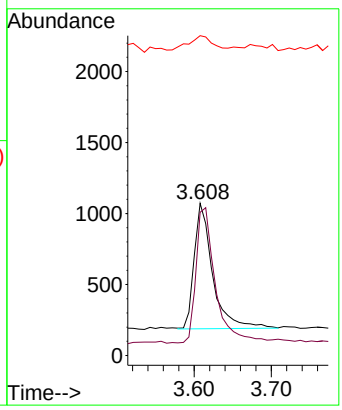




#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 42 Resp: 147

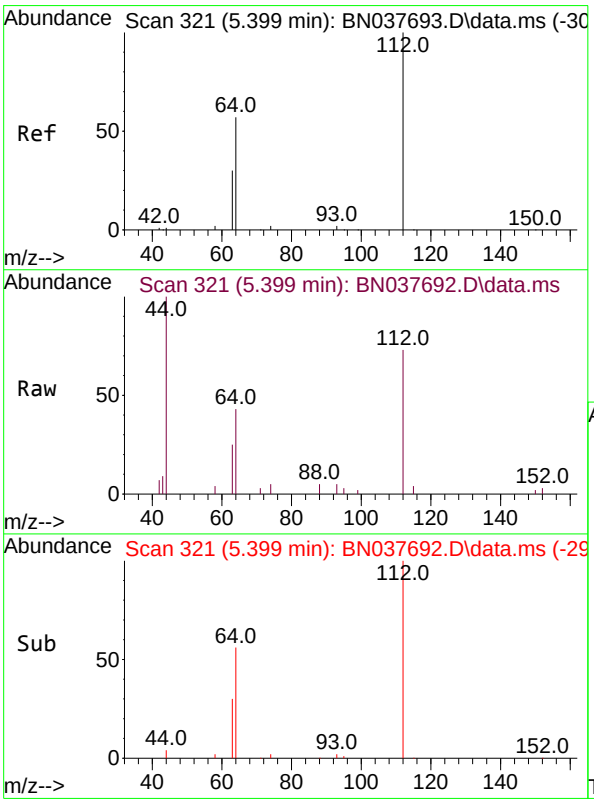
Ion	Ratio	Lower	Upper
42	100		
74	113.6	86.0	129.0
44	16.2	8.4	12.6#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

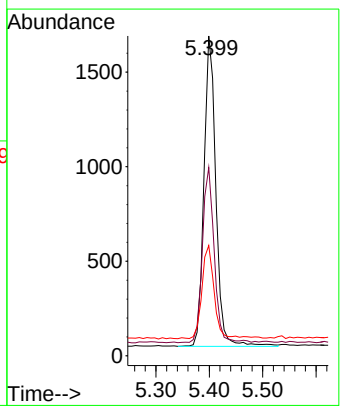
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

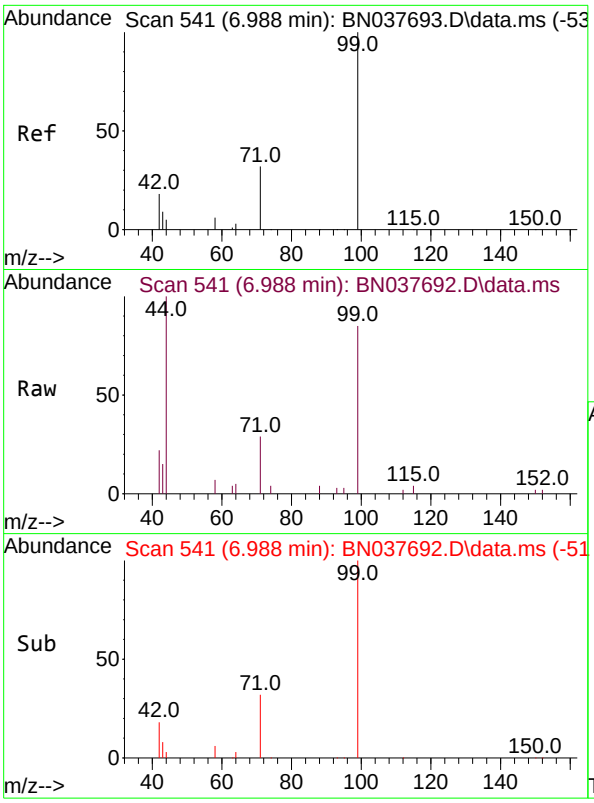


#4
2-Fluorophenol
Concen: 0.199 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:112 Resp: 2533

Ion	Ratio	Lower	Upper
112	100		
64	55.5	44.9	67.3
63	30.4	24.7	37.1

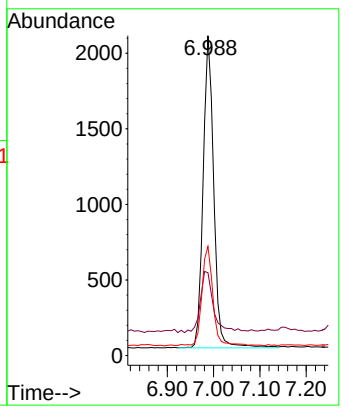




#5
Phenol-d6
Concen: 0.200 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 99 Resp: 3308

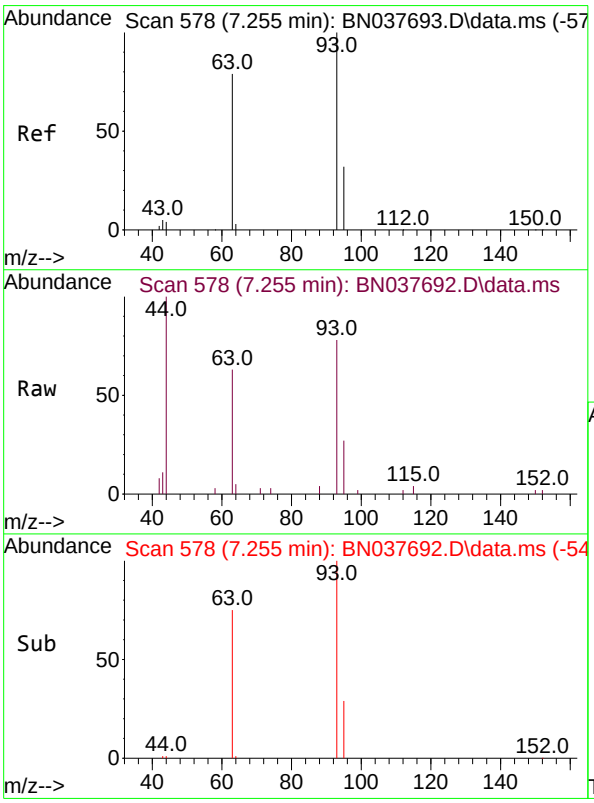
Ion	Ratio	Lower	Upper
99	100		
42	24.3	16.6	24.8
71	32.8	26.7	40.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

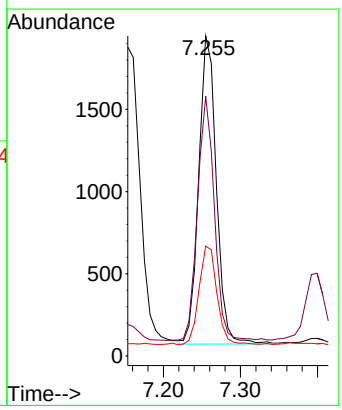
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

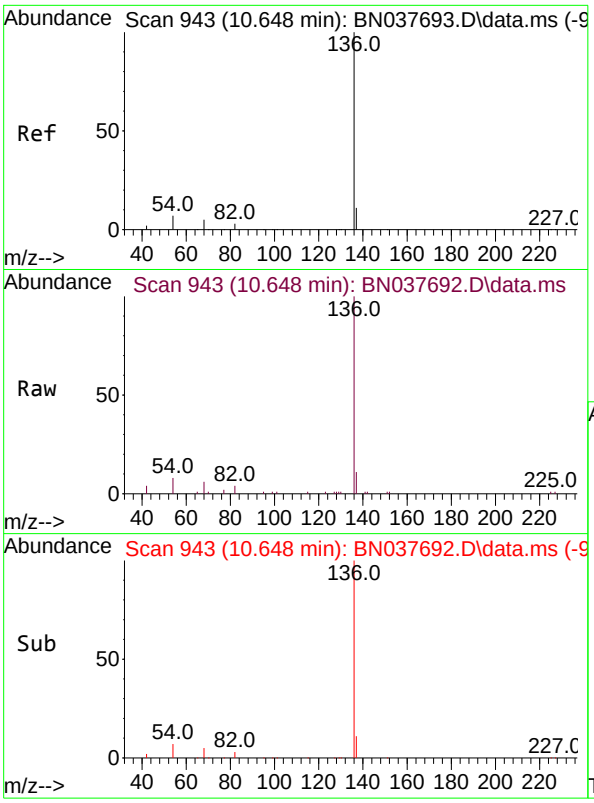


#6
bis(2-Chloroethyl)ether
Concen: 0.202 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 93 Resp: 2982

Ion	Ratio	Lower	Upper
93	100		
63	75.7	60.6	90.8
95	32.5	26.0	39.0

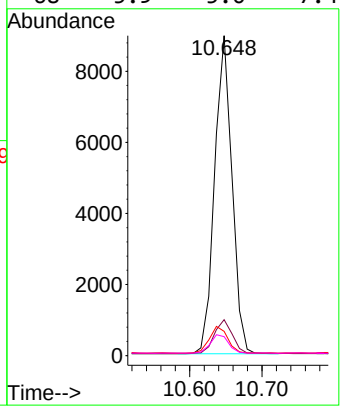




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:136 Resp: 1501

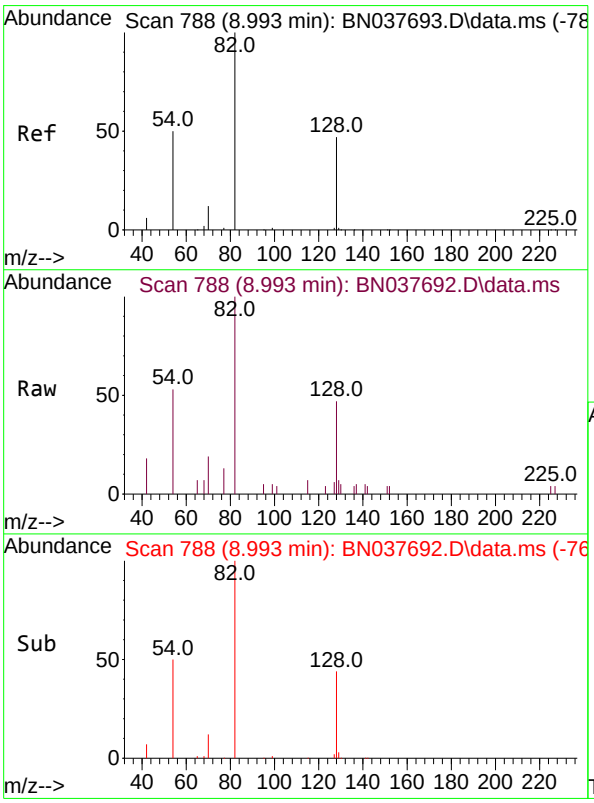
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	7.6	6.3	9.5
68	5.9	5.0	7.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

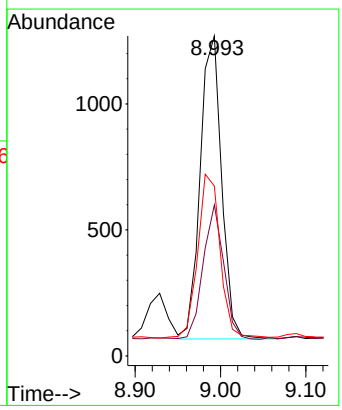
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

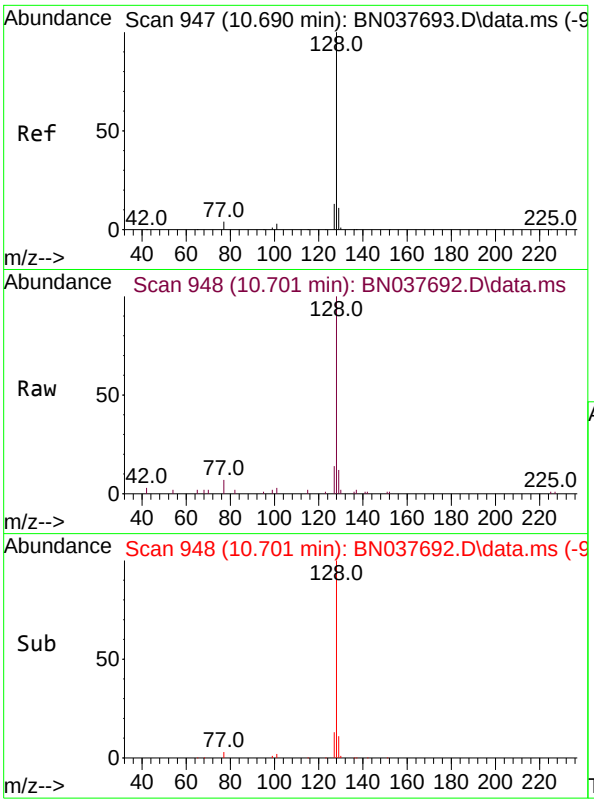


#8
Nitrobenzene-d5
Concen: 0.191 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 82 Resp: 2098

Ion	Ratio	Lower	Upper
82	100		
128	47.2	38.3	57.5
54	53.1	41.4	62.2

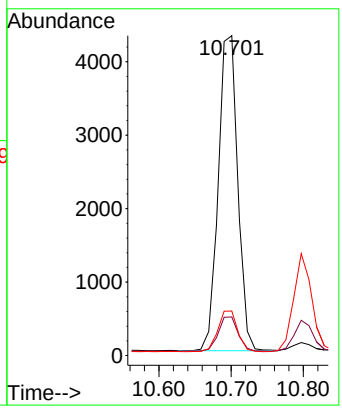




#9
Naphthalene
Concen: 0.196 ng
RT: 10.701 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:128 Resp: 805

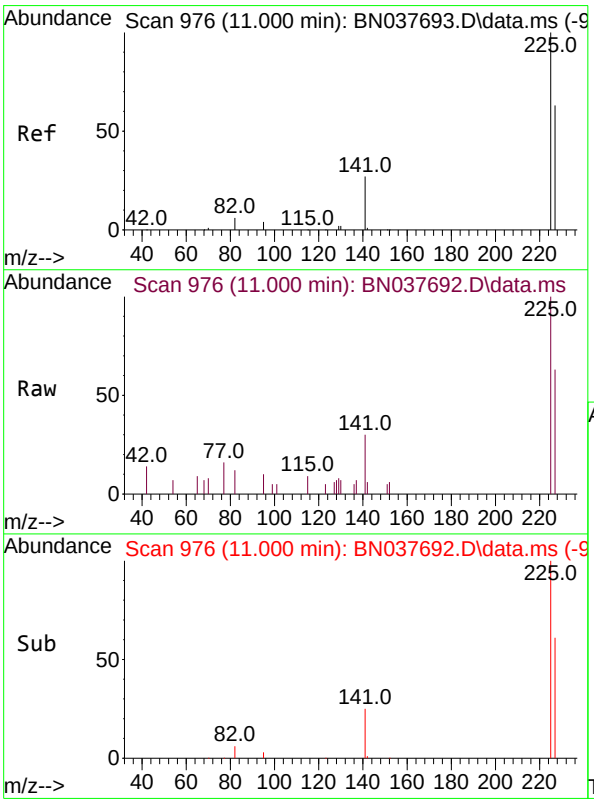
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.1	13.7
127	13.9	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

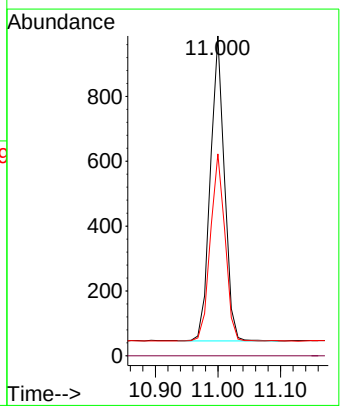
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

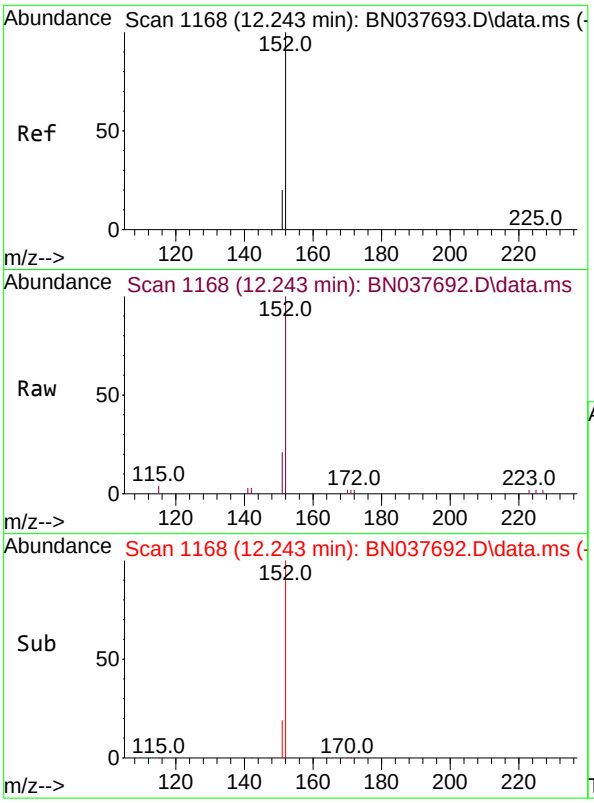


#10
Hexachlorobutadiene
Concen: 0.198 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:225 Resp: 1472

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	50.9	76.3





#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 12.243 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

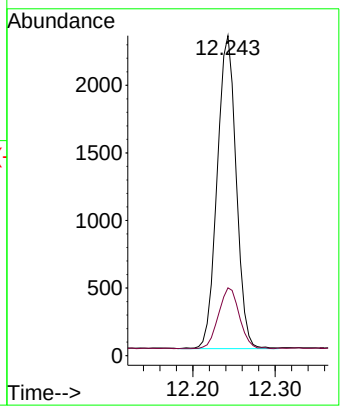
Tgt Ion:152 Resp: 373

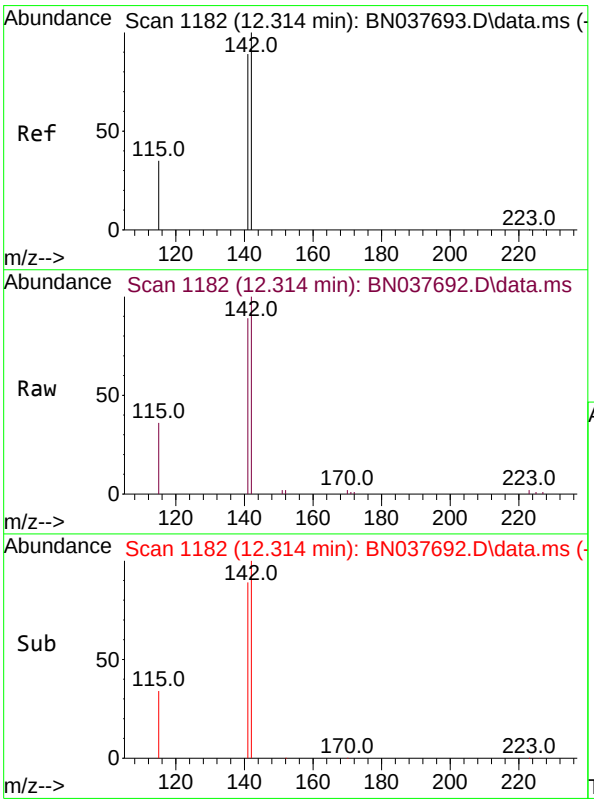
Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

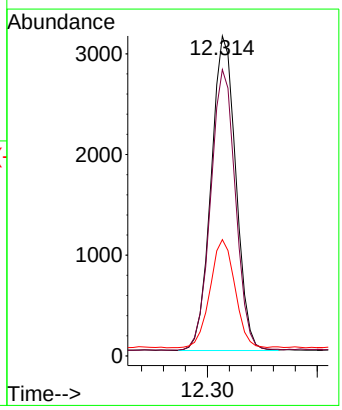


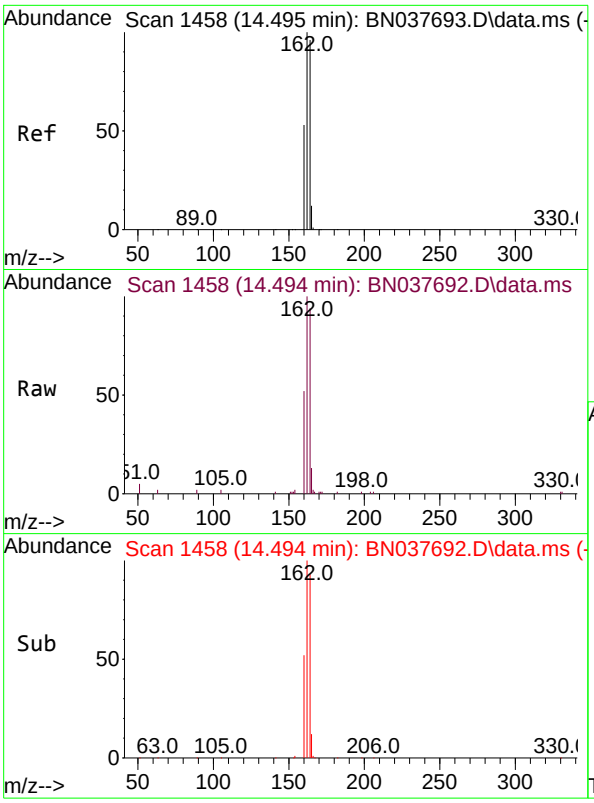


#12
2-Methylnaphthalene
Concen: 0.193 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:142 Resp: 4889

Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.6	107.4
115	36.3	28.6	43.0

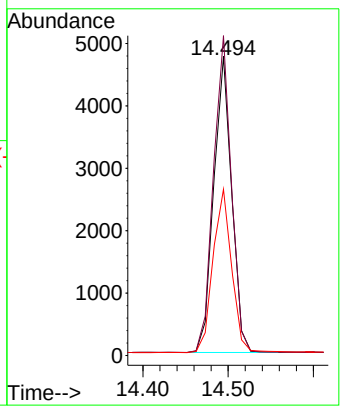




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:164 Resp: 695

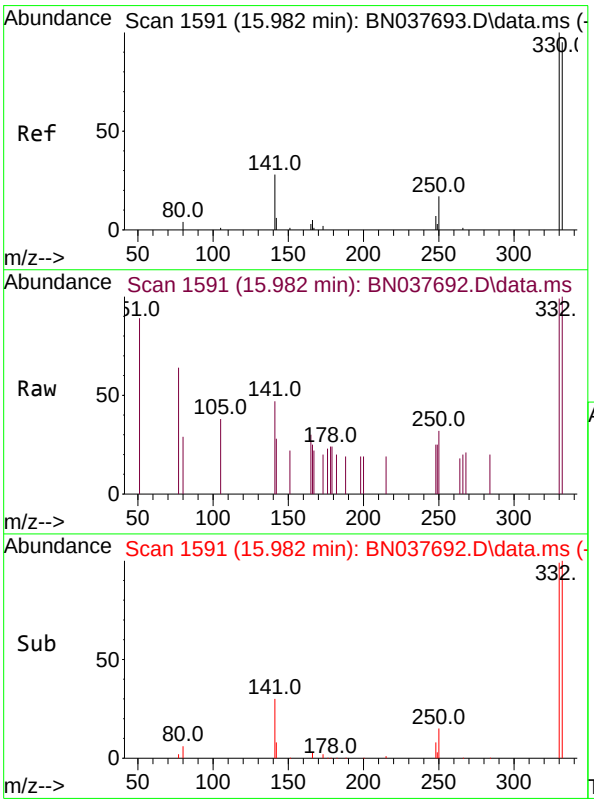
Ion	Ratio	Lower	Upper
164	100		
162	106.9	83.1	124.7
160	55.5	44.3	66.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

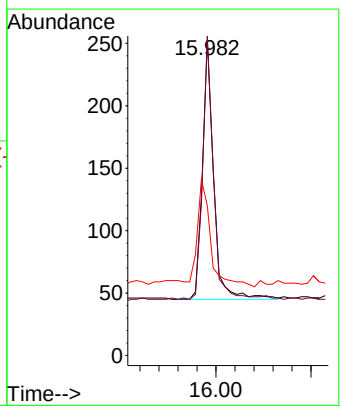
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

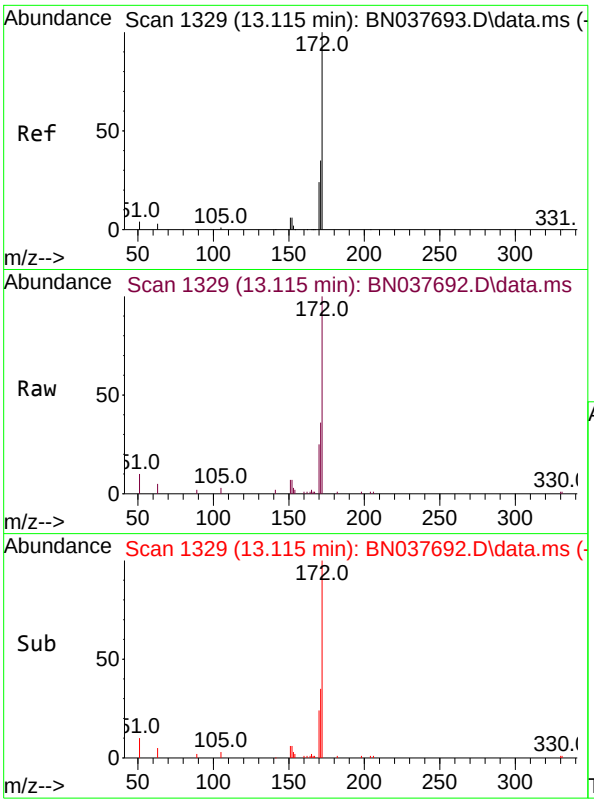


#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:330 Resp: 340

Ion	Ratio	Lower	Upper
330	100		
332	95.6	75.3	112.9
141	49.4	35.0	52.4

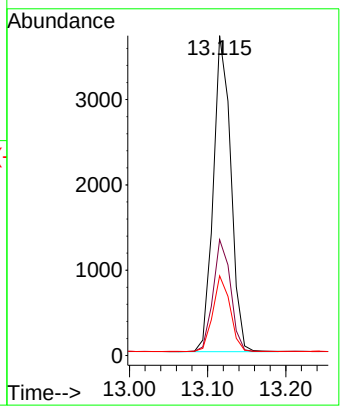




#15
2-Fluorobiphenyl
Concen: 0.199 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:172 Resp: 5791

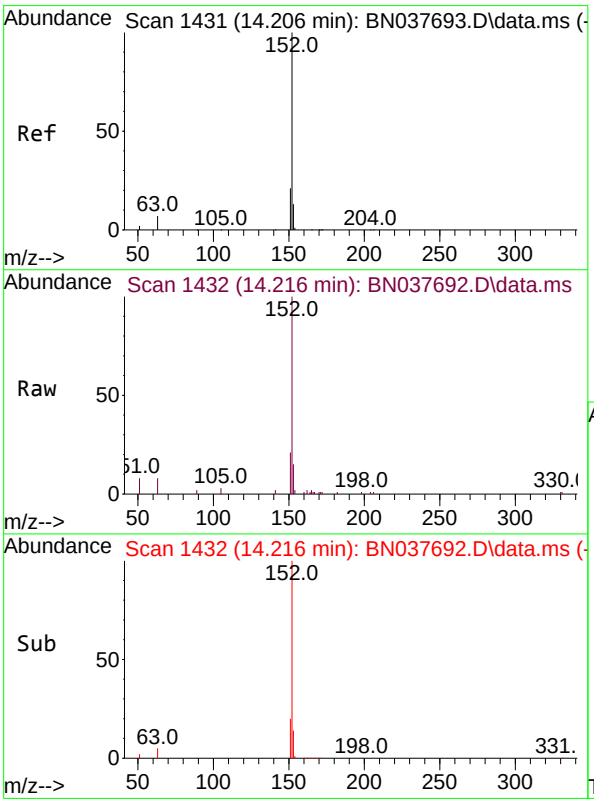
Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	24.9	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

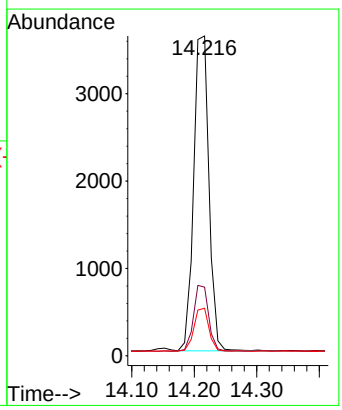
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

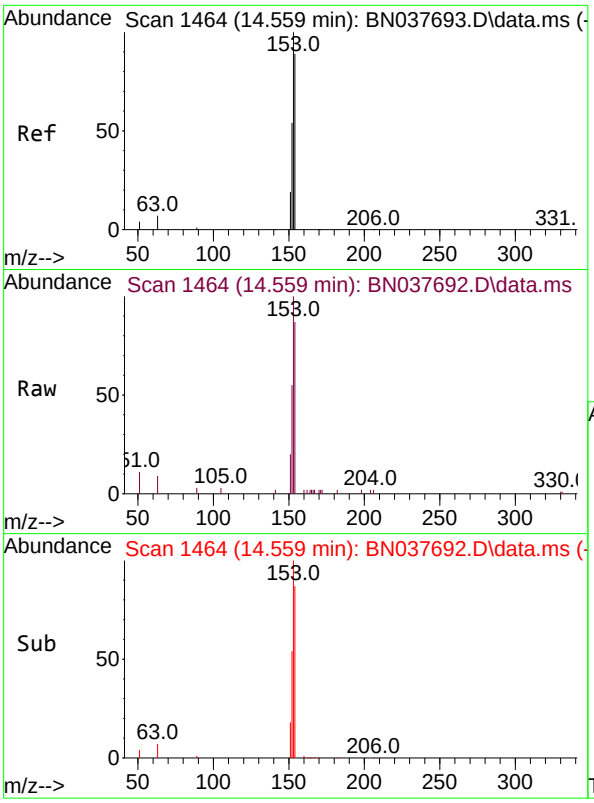


#16
Acenaphthylene
Concen: 0.191 ng
RT: 14.216 min Scan# 1432
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:152 Resp: 6105

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.2	24.2
153	13.8	10.4	15.6

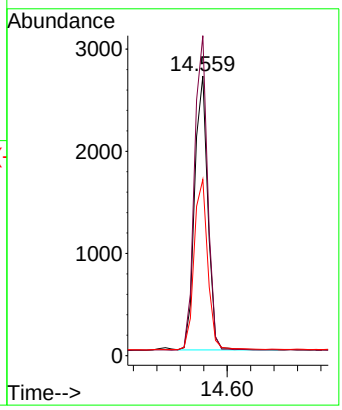




#17
Acenaphthene
Concen: 0.193 ng
RT: 14.559 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:154 Resp: 416

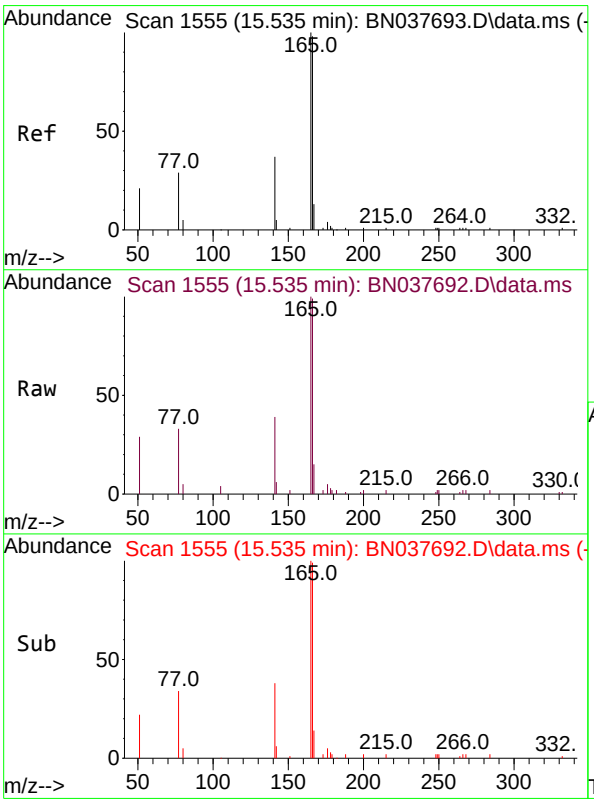
Ion	Ratio	Lower	Upper
154	100		
153	114.9	89.8	134.8
152	64.4	50.2	75.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

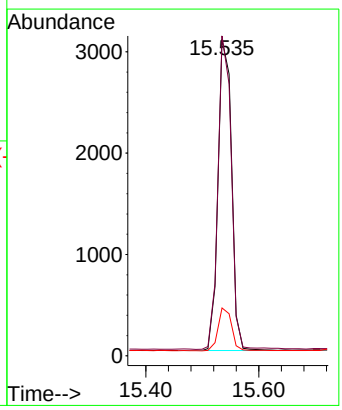
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

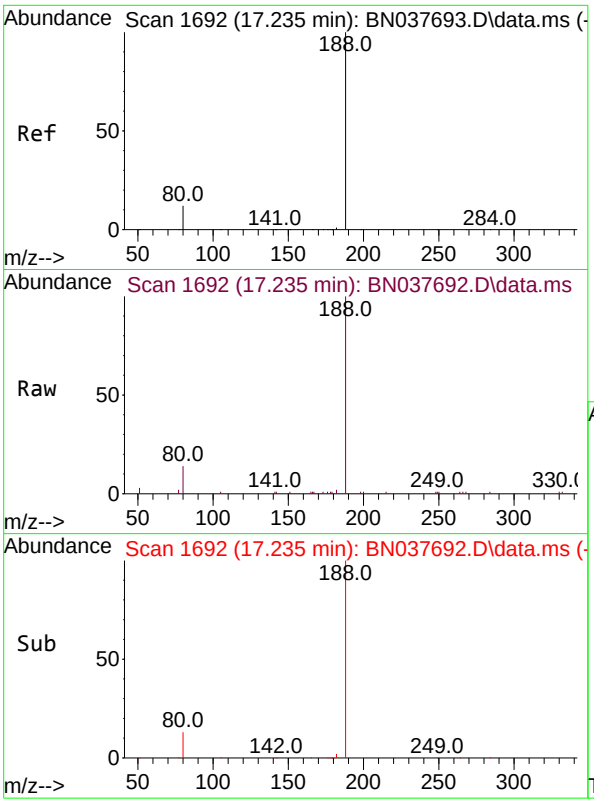


#18
Fluorene
Concen: 0.187 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:166 Resp: 4875

Ion	Ratio	Lower	Upper
166	100		
165	102.3	79.6	119.4
167	14.5	10.6	16.0





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

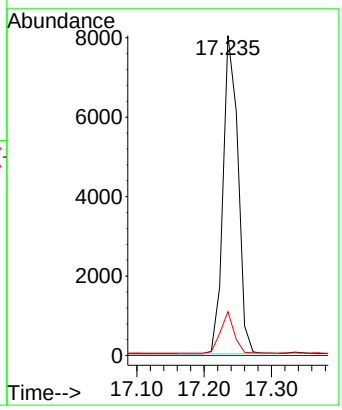
Tgt Ion:188 Resp: 1238

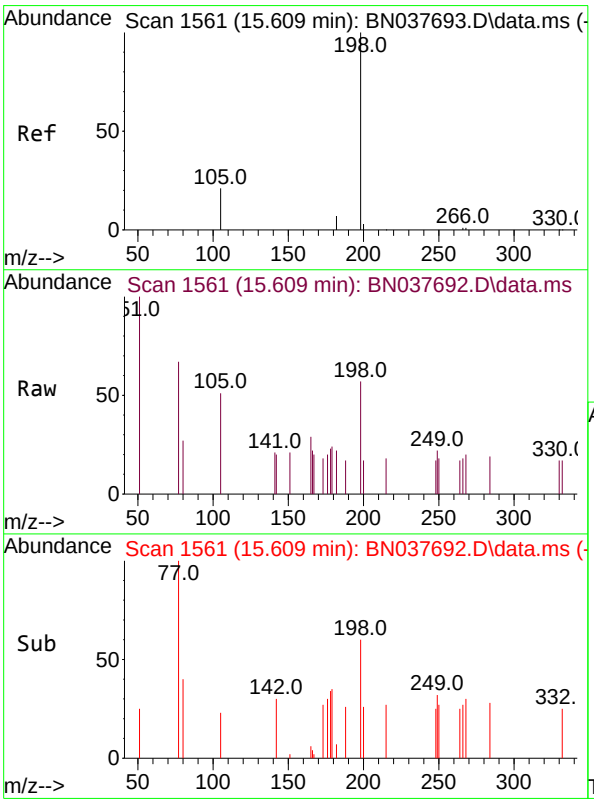
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.7	10.6	15.8

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

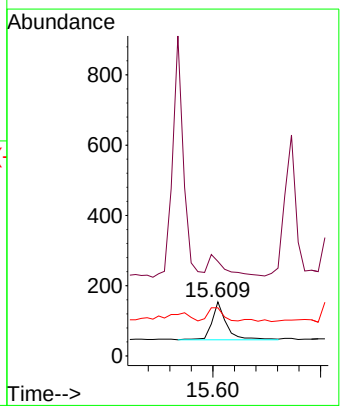


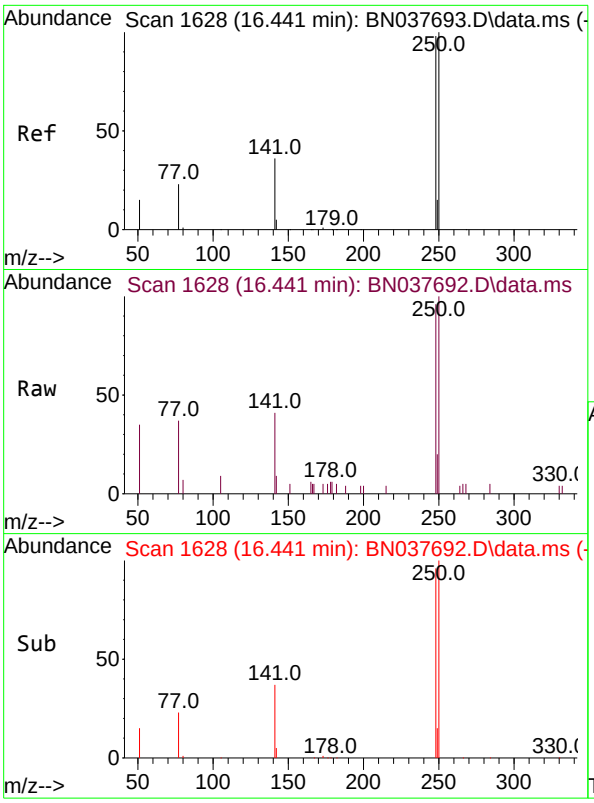


#20
4,6-Dinitro-2-methylphenol
Concen: 0.175 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:198 Resp: 201

Ion	Ratio	Lower	Upper
198	100		
51	174.7	95.1	142.7#
105	89.0	53.8	80.6#

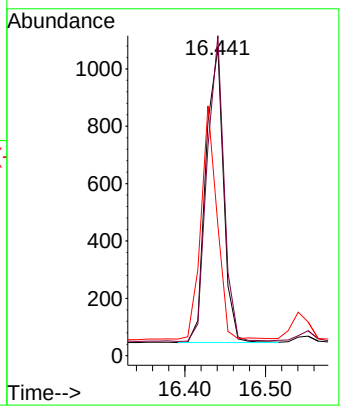




#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:248 Resp: 156

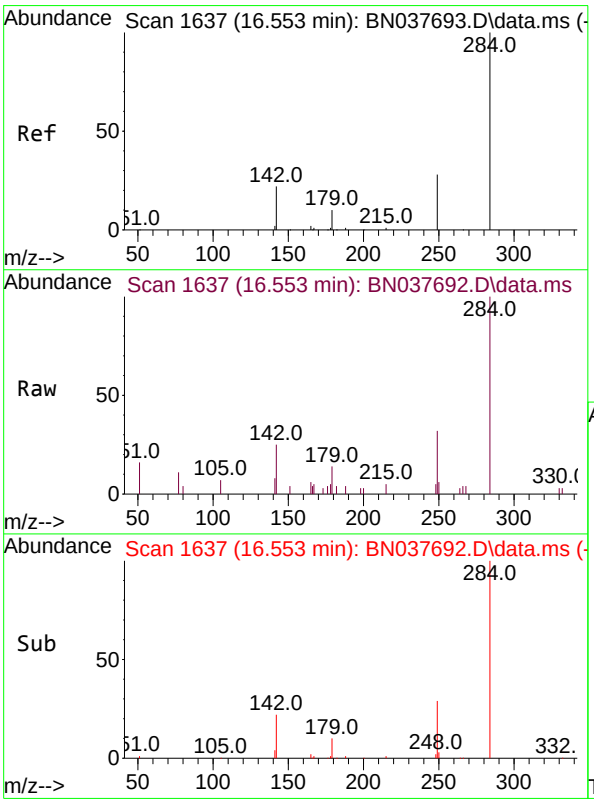
Ion	Ratio	Lower	Upper
248	100		
250	104.0	81.5	122.3
141	42.3	30.8	46.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

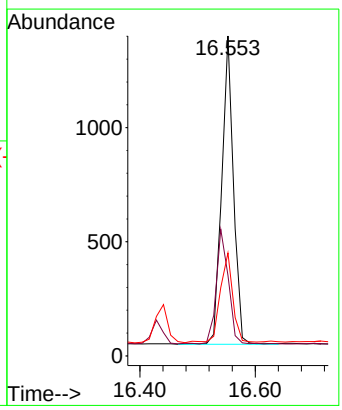
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

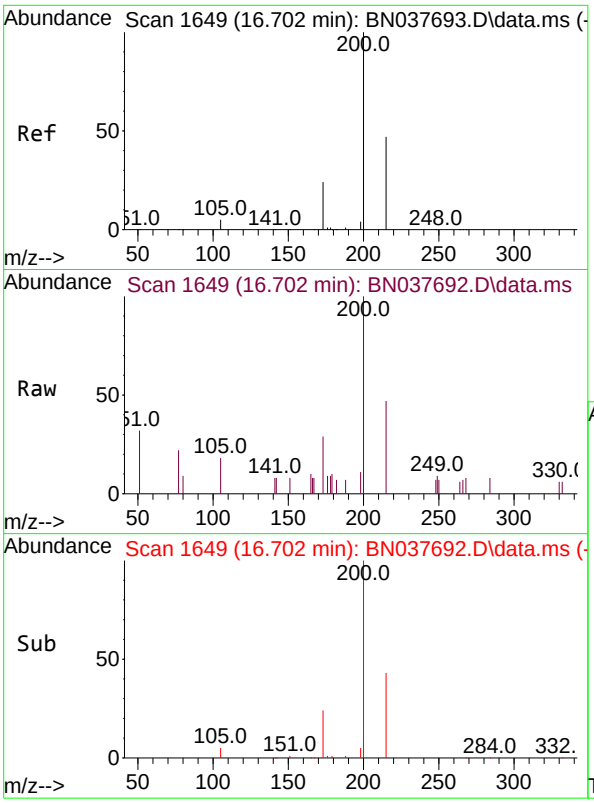


#22
Hexachlorobenzene
Concen: 0.205 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:284 Resp: 1906

Ion	Ratio	Lower	Upper
284	100		
142	38.4	30.9	46.3
249	31.4	24.8	37.2

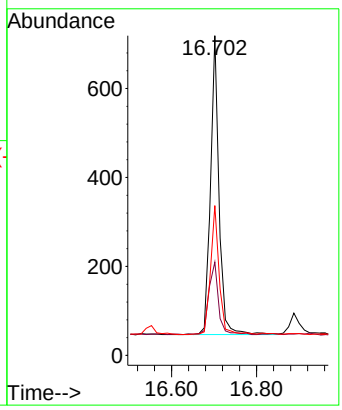




#23
Atrazine
Concen: 0.181 ng
RT: 16.702 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:200 Resp: 93

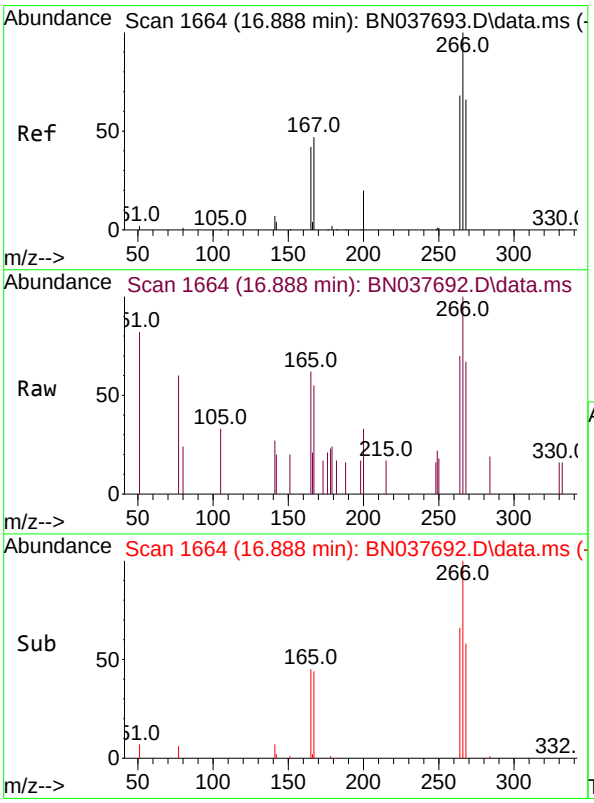
Ion	Ratio	Lower	Upper
200	100		
173	29.2	21.4	32.2
215	46.9	39.2	58.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

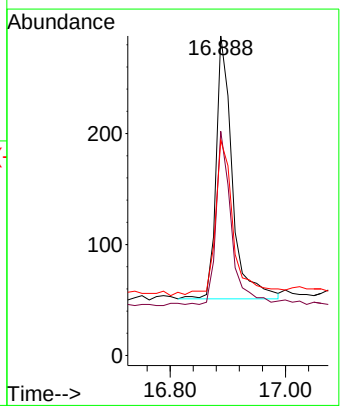
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

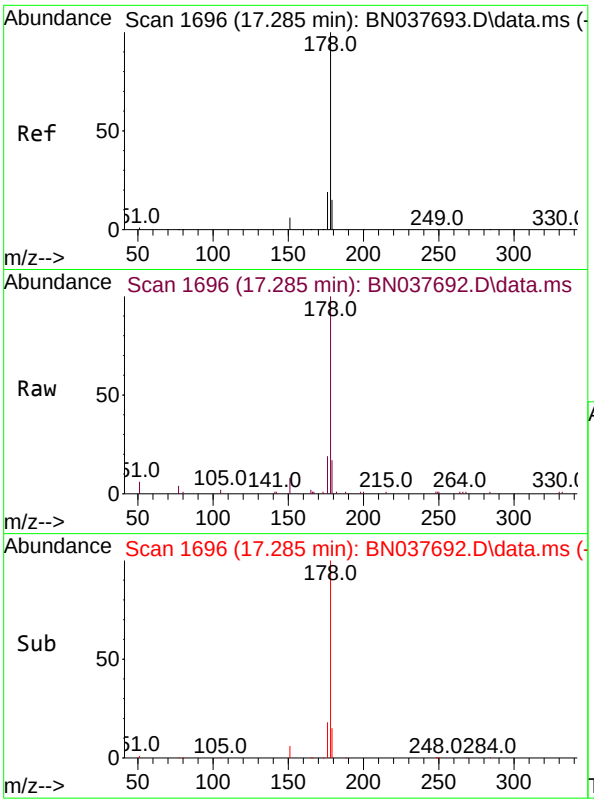


#24
Pentachlorophenol
Concen: 0.171 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:266 Resp: 461

Ion	Ratio	Lower	Upper
266	100		
264	61.6	51.6	77.4
268	67.5	53.2	79.8

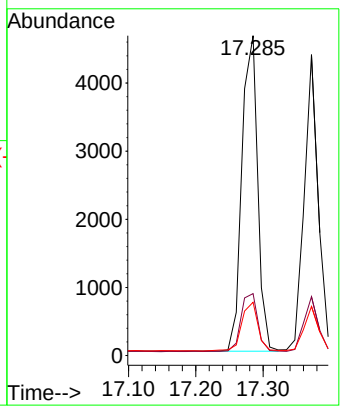




#25
Phenanthrene
Concen: 0.193 ng
RT: 17.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:178 Resp: 752

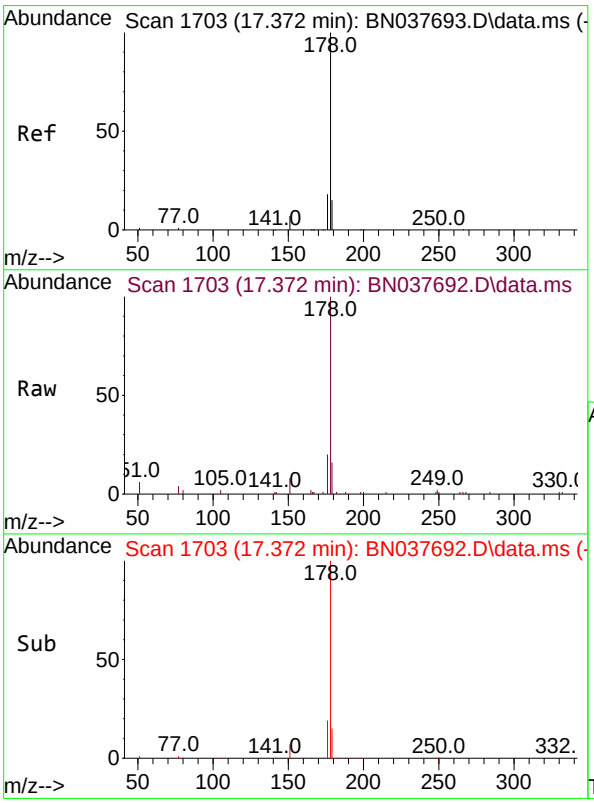
Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.3	22.9
179	15.7	12.2	18.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

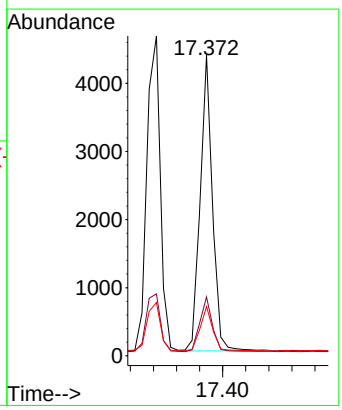
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

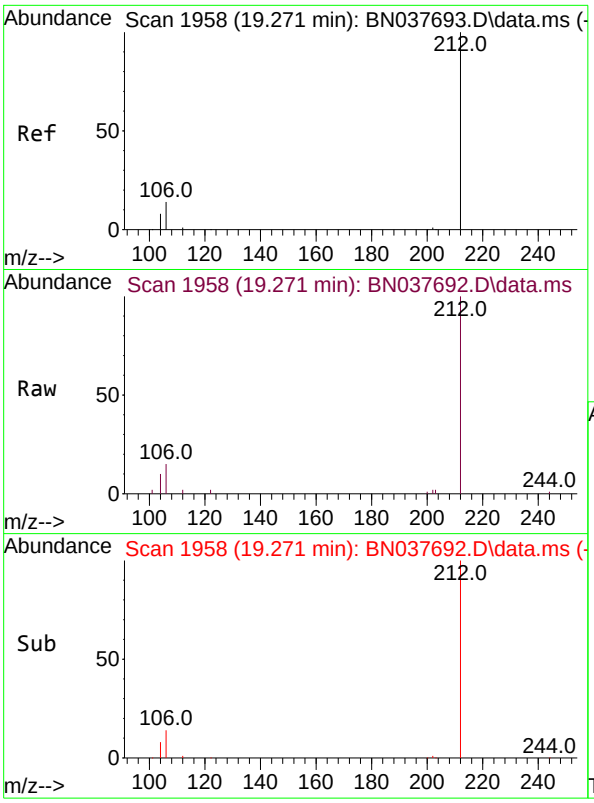


#26
Anthracene
Concen: 0.185 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:178 Resp: 6375

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.6	22.0
179	15.4	12.2	18.4

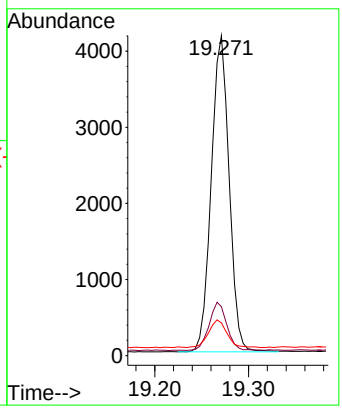




#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 19.271 min Scan# 19
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:212 Resp: 549

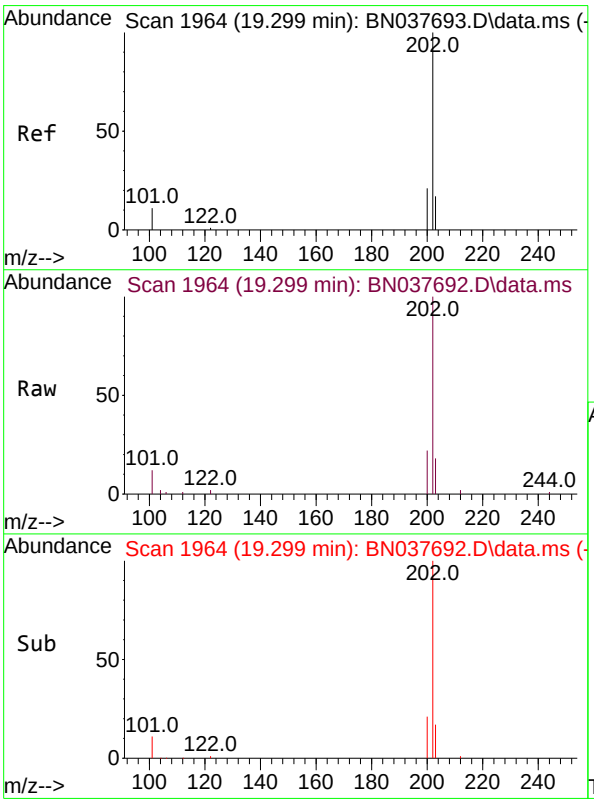
Ion	Ratio	Lower	Upper
212	100		
106	15.4	12.2	18.2
104	9.0	6.9	10.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

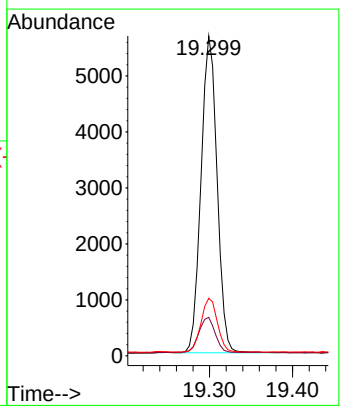
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

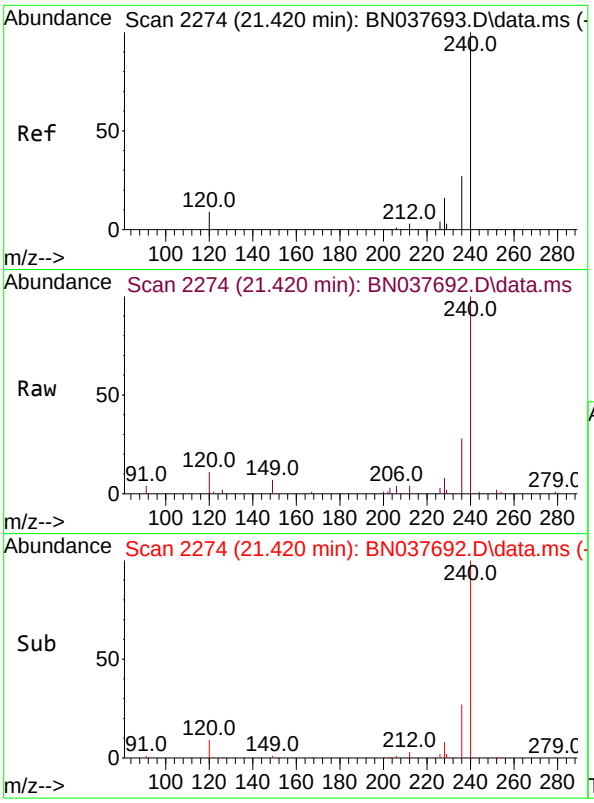


#28
Fluoranthene
Concen: 0.177 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:202 Resp: 7577

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	17.1	13.7	20.5

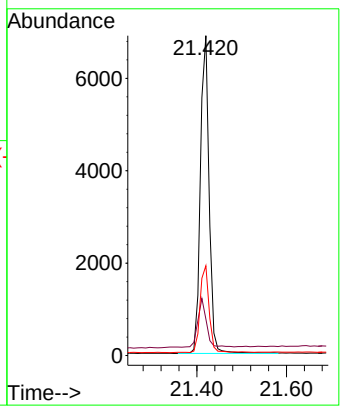




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:240 Resp: 932

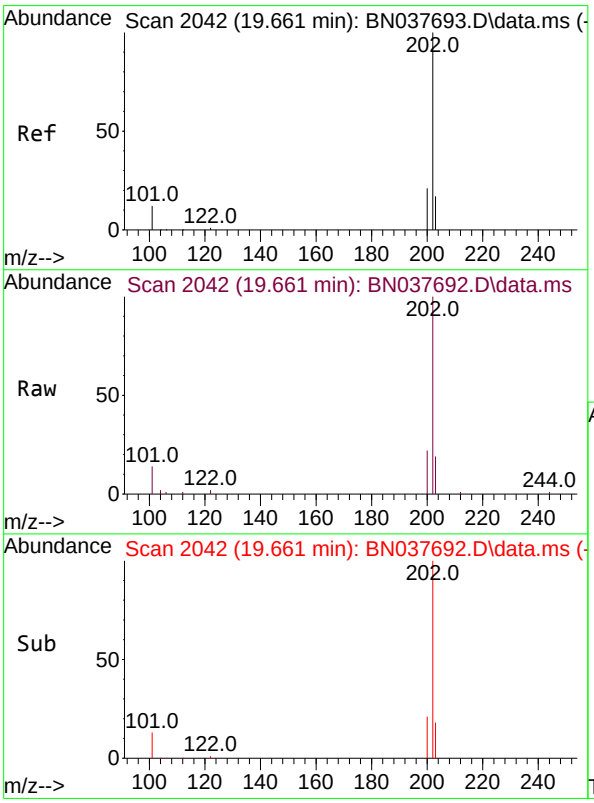
Ion	Ratio	Lower	Upper
240	100		
120	11.4	9.2	13.8
236	28.1	22.6	33.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

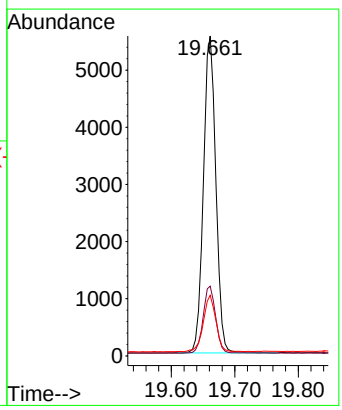
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

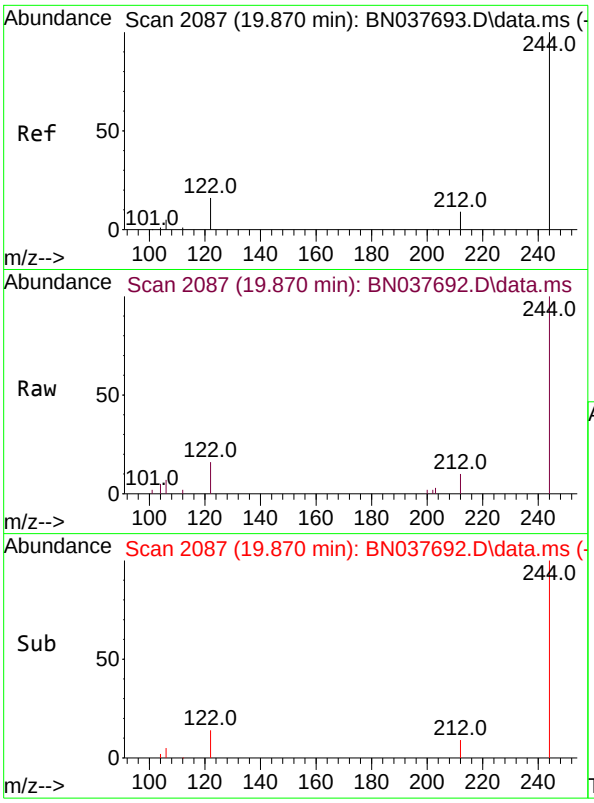


#30
Pyrene
Concen: 0.207 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:202 Resp: 7543

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	18.3	14.3	21.5

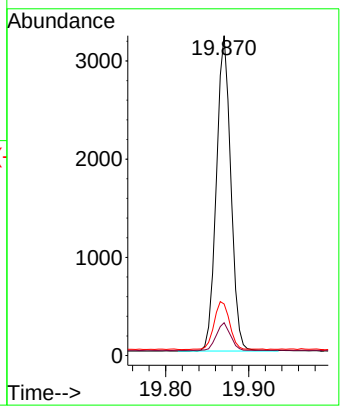




#31
Terphenyl-d14
Concen: 0.205 ng
RT: 19.870 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:244 Resp: 388

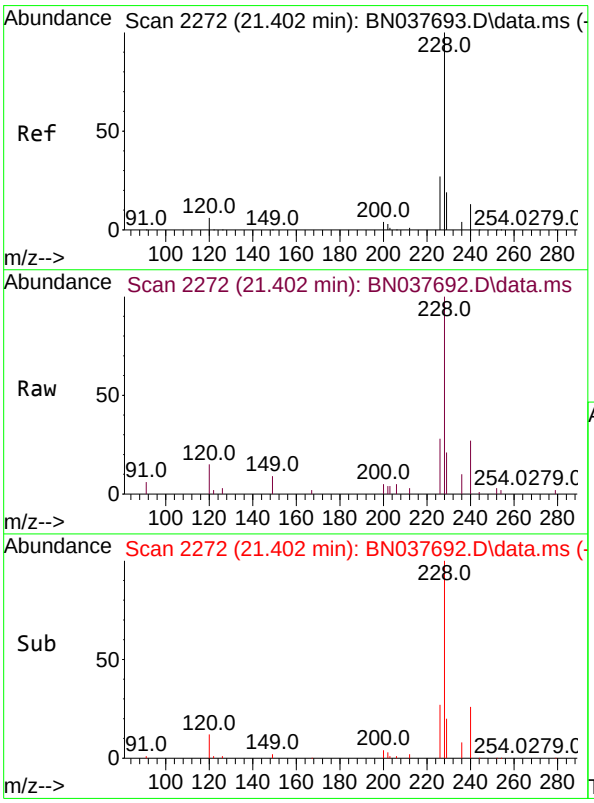
Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.5	11.3
122	16.1	13.2	19.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

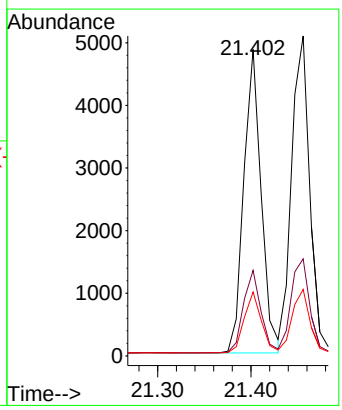
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

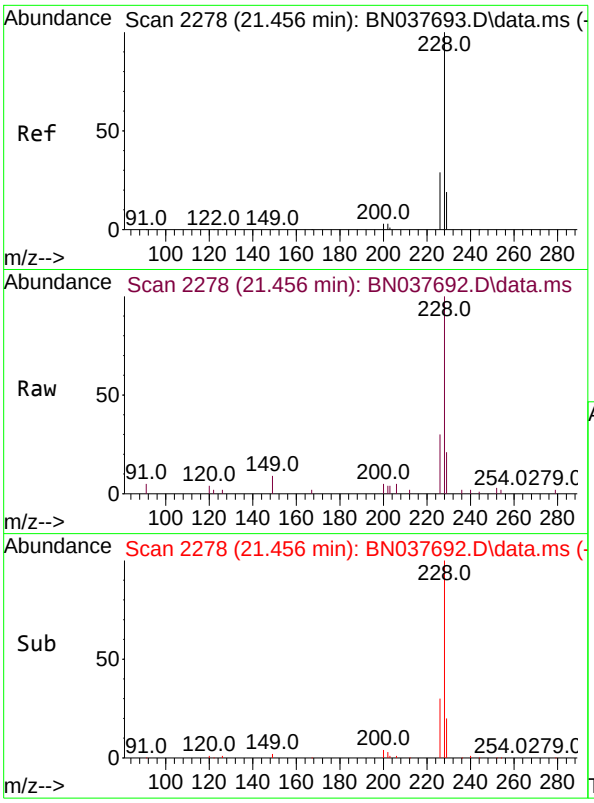


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:228 Resp: 6270

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.2
229	20.8	15.8	23.6

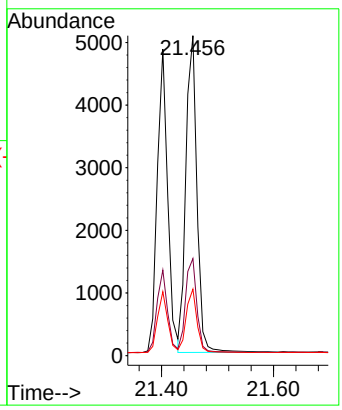




#33
Chrysene
Concen: 0.199 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:228 Resp: 695

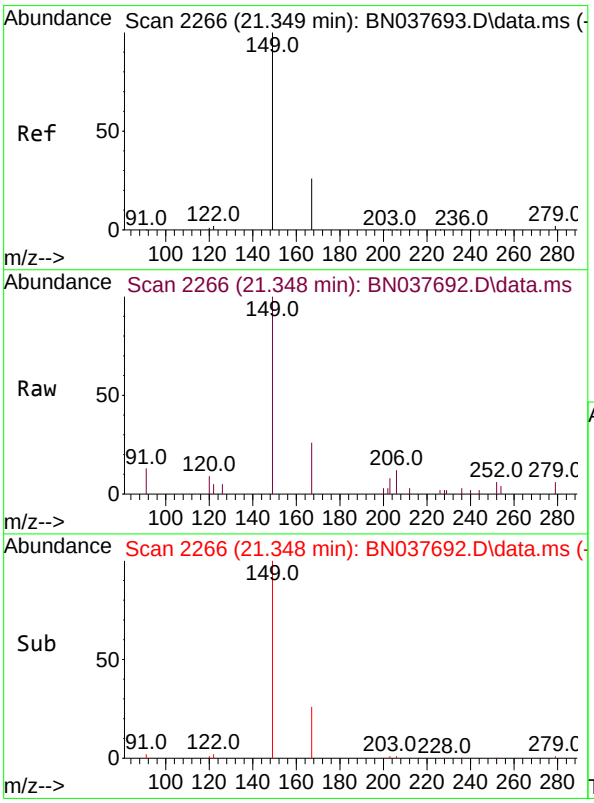
Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.5	35.3
229	20.8	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

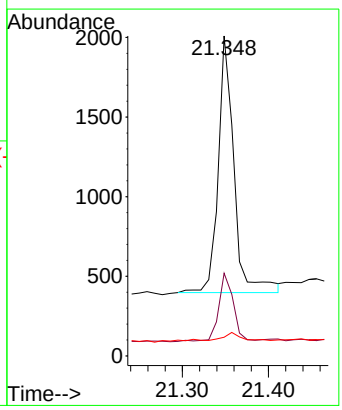
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

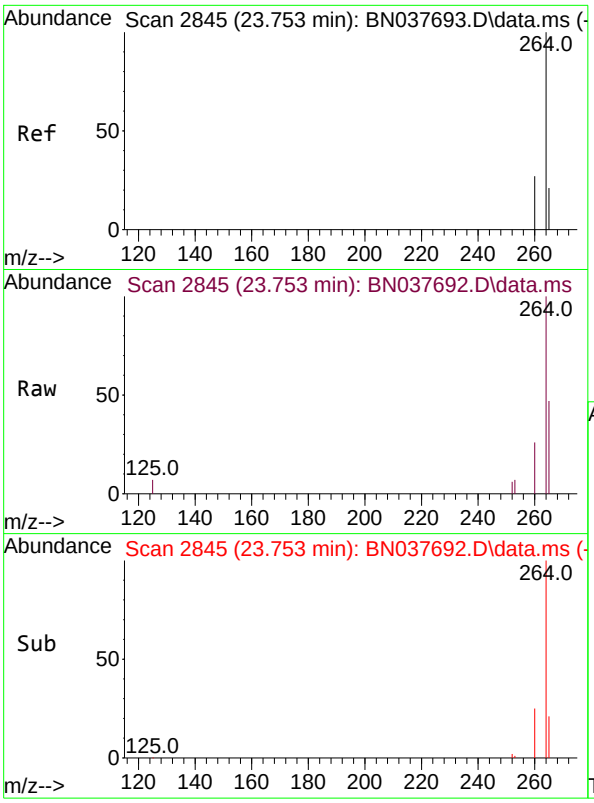


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.213 ng
RT: 21.348 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:149 Resp: 2049

Ion	Ratio	Lower	Upper
149	100		
167	24.7	20.8	31.2
279	3.1	3.3	4.9#

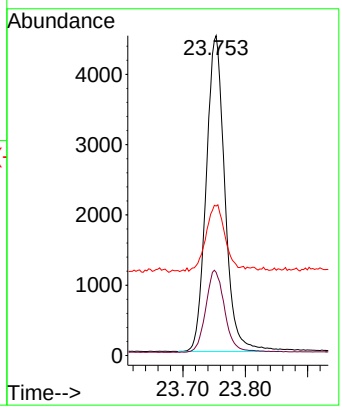




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:264 Resp: 9364

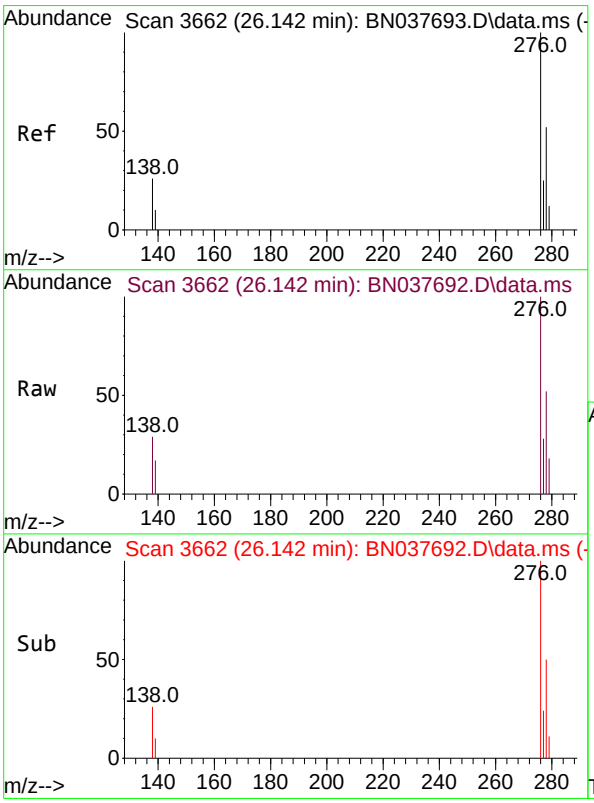
Ion	Ratio	Lower	Upper
264	100		
260	26.0	21.8	32.8
265	46.7	39.4	59.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

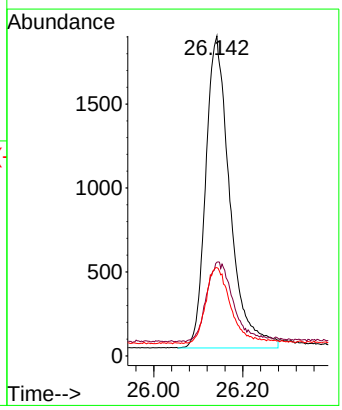
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

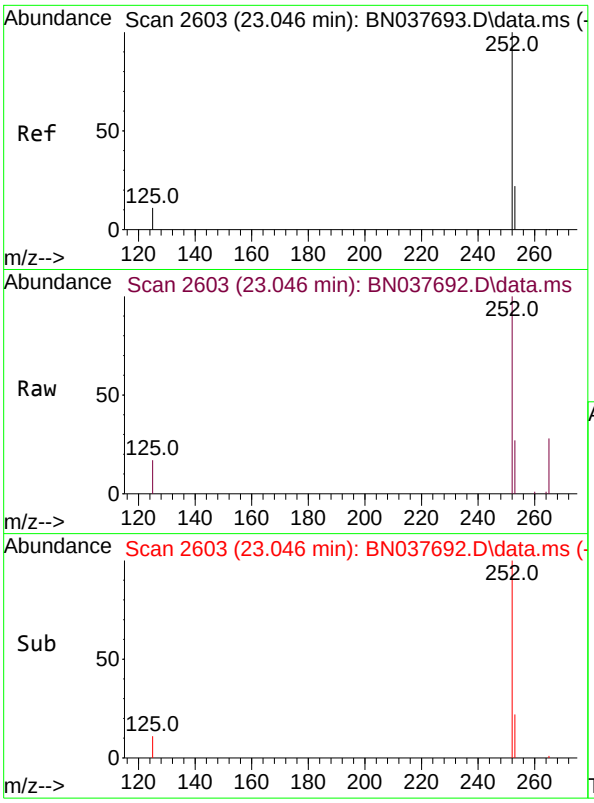


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.177 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:276 Resp: 6982

Ion	Ratio	Lower	Upper
276	100		
138	28.1	21.9	32.9
277	24.6	20.1	30.1

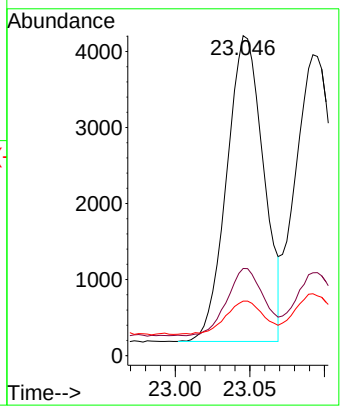




#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 23.046 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:252 Resp: 690

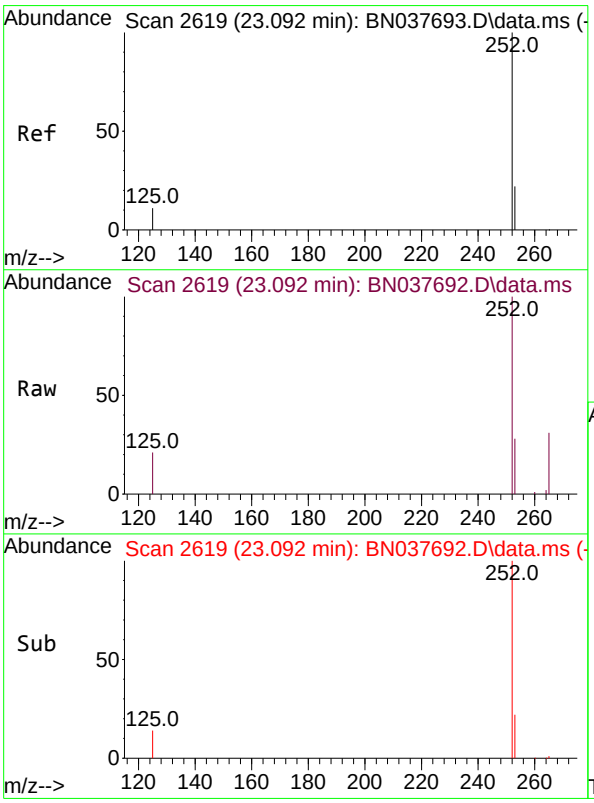
Ion	Ratio	Lower	Upper
252	100		
253	27.3	19.4	29.2
125	17.0	11.2	16.8#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

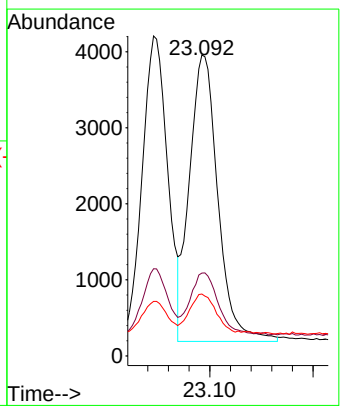
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

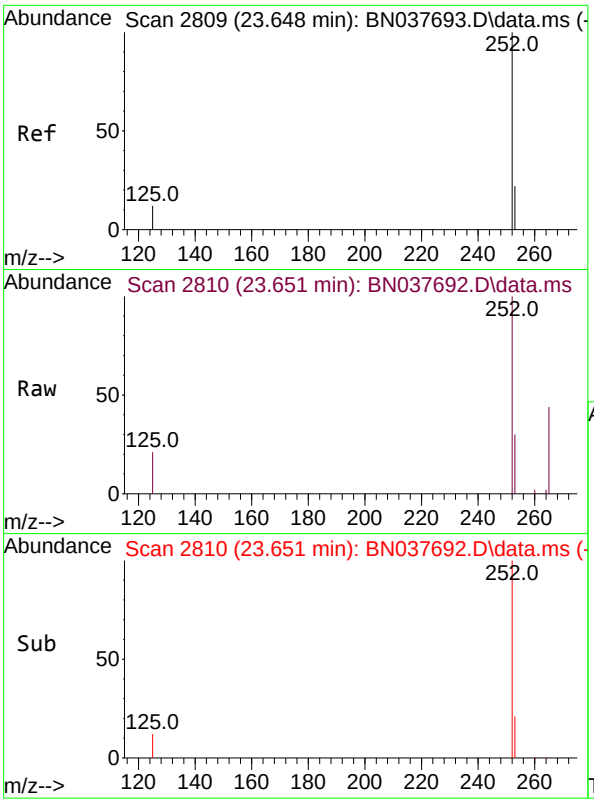


#38
Benzo(k)fluoranthene
Concen: 0.192 ng m
RT: 23.092 min Scan# 2619
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:252 Resp: 7226

Ion	Ratio	Lower	Upper
252	100		
253	27.5	19.4	29.0
125	20.6	11.6	17.4#

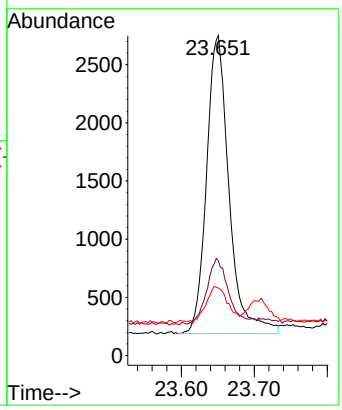




#39
Benzo(a)pyrene
Concen: 0.186 ng
RT: 23.651 min Scan# 28
Delta R.T. 0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:252 Resp: 548

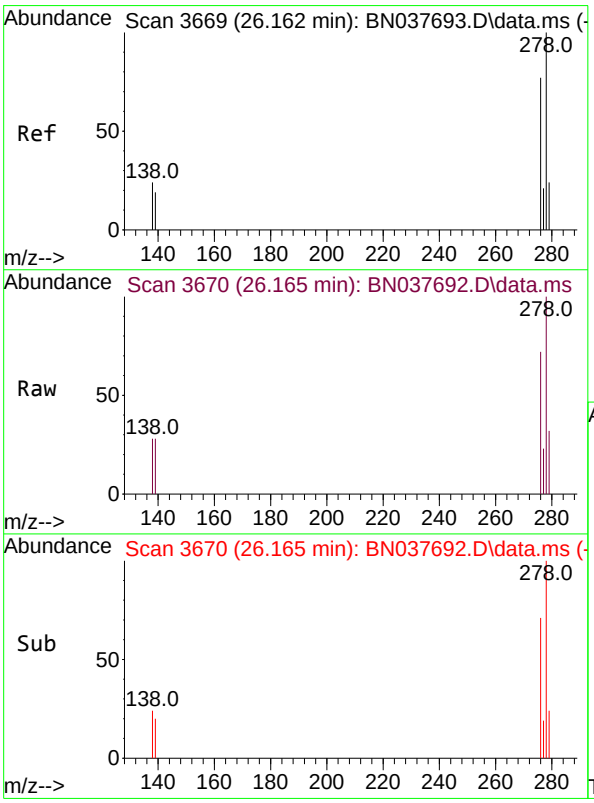
Ion	Ratio	Lower	Upper
252	100		
253	29.6	20.8	31.2
125	21.1	13.9	20.9#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

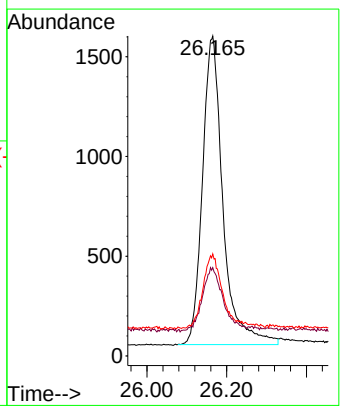
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

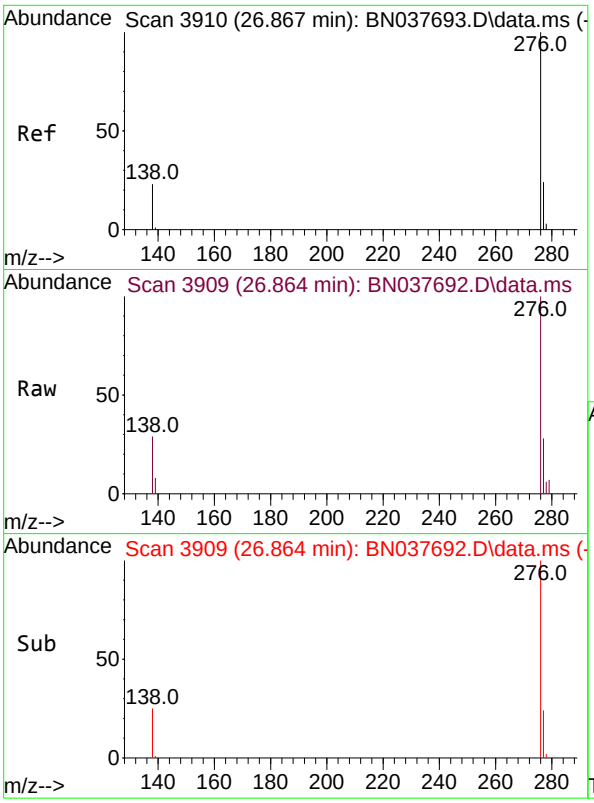


#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 26.165 min Scan# 3670
Delta R.T. 0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:278 Resp: 5503

Ion	Ratio	Lower	Upper
278	100		
139	27.6	17.8	26.6#
279	31.9	22.0	33.0

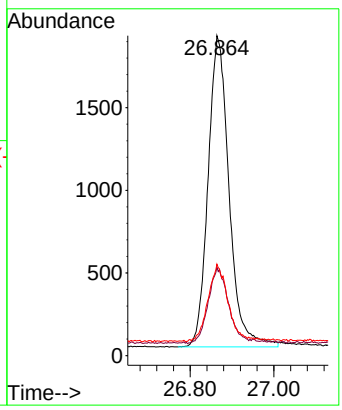




#41
Benzo(g,h,i)perylene
Concen: 0.186 ng
RT: 26.864 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:276 Resp: 656

Ion	Ratio	Lower	Upper
276	100		
277	27.6	20.6	31.0
138	28.6	20.2	30.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037693.D
Acq On : 11 Sep 2025 11:08
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Sep 11 14:06:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.840	152	4992	0.400	ng		0.00
7) Naphthalene-d8	10.648	136	13249	0.400	ng		0.00
13) Acenaphthene-d10	14.495	164	6204	0.400	ng		0.00
19) Phenanthrene-d10	17.235	188	11263	0.400	ng		0.00
29) Chrysene-d12	21.420	240	9368	0.400	ng		0.00
35) Perylene-d12	23.753	264	8965	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.399	112	4452	0.388	ng		0.00
5) Phenol-d6	6.988	99	5771	0.388	ng		0.00
8) Nitrobenzene-d5	8.993	82	3770	0.389	ng		0.00
11) 2-Methylnaphthalene-d10	12.243	152	6602	0.376	ng		0.00
14) 2,4,6-Tribromophenol	15.982	330	625	0.386	ng		0.00
15) 2-Fluorobiphenyl	13.115	172	10228	0.394	ng		0.00
27) Fluoranthene-d10	19.271	212	10530	0.372	ng		0.00
31) Terphenyl-d14	19.870	244	7507	0.395	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.304	88	2106	0.405	ng		100
3) n-Nitrosodimethylamine	3.608	42	2814	0.414	ng		99
6) bis(2-Chloroethyl)ether	7.255	93	5343	0.402	ng		100
9) Naphthalene	10.690	128	14229	0.393	ng		100
10) Hexachlorobutadiene	11.000	225	2615	0.399	ng	#	100
12) 2-Methylnaphthalene	12.314	142	8728	0.390	ng		100
16) Acenaphthylene	14.206	152	11064	0.389	ng		100
17) Acenaphthene	14.559	154	7540	0.392	ng		100
18) Fluorene	15.535	166	8938	0.384	ng		100
20) 4,6-Dinitro-2-methylph...	15.609	198	372	0.357	ng		100
21) 4-Bromophenyl-phenylether	16.441	248	2827	0.385	ng		100
22) Hexachlorobenzene	16.553	284	3312	0.392	ng		100
23) Atrazine	16.702	200	1707	0.365	ng		100
24) Pentachlorophenol	16.888	266	839	0.342	ng		100
25) Phenanthrene	17.285	178	13778	0.389	ng		100
26) Anthracene	17.372	178	12049	0.384	ng		100
28) Fluoranthene	19.299	202	14751	0.379	ng		100
30) Pyrene	19.661	202	14587	0.398	ng		100
32) Benzo(a)anthracene	21.402	228	12621	0.386	ng		100
33) Chrysene	21.456	228	14018	0.400	ng		100
34) Bis(2-ethylhexyl)phtha...	21.349	149	3520	0.363	ng		100
36) Indeno(1,2,3-cd)pyrene	26.142	276	13835	0.367	ng		100
37) Benzo(b)fluoranthene	23.046	252	13935	0.395	ng		100
38) Benzo(k)fluoranthene	23.092	252	13659	0.379	ng		100
39) Benzo(a)pyrene	23.648	252	10766	0.381	ng		100
40) Dibenzo(a,h)anthracene	26.162	278	10852	0.361	ng		100
41) Benzo(g,h,i)perylene	26.867	276	13009	0.385	ng		100

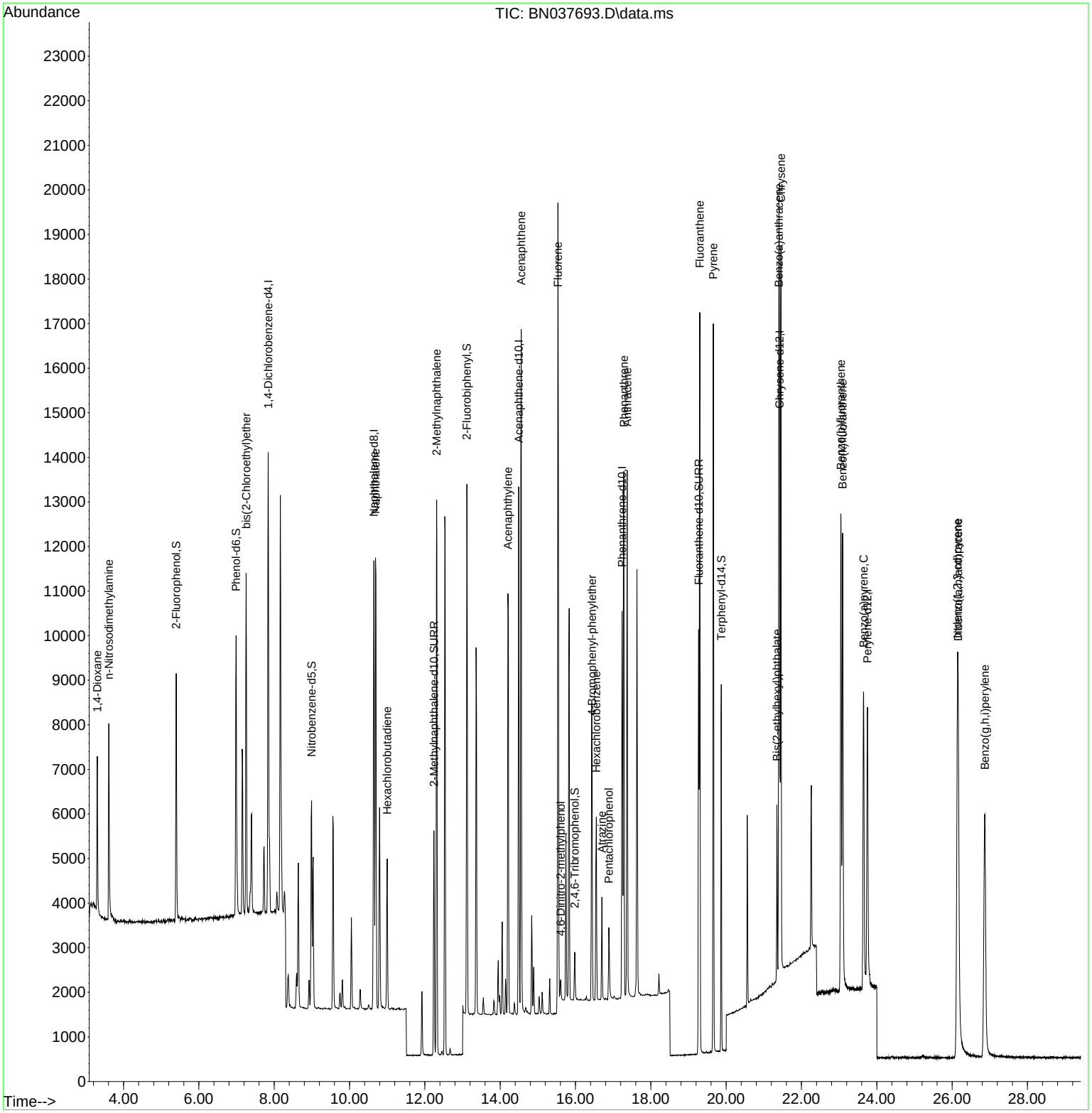
(#) = qualifier out of range (m) = manual integration (+) = signals summed

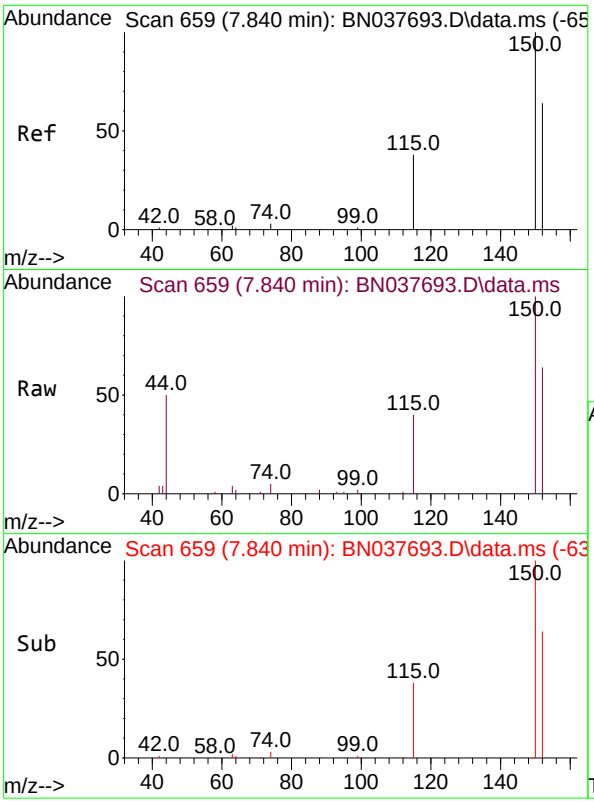
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037693.D
Acq On : 11 Sep 2025 11:08
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Sep 11 14:06:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



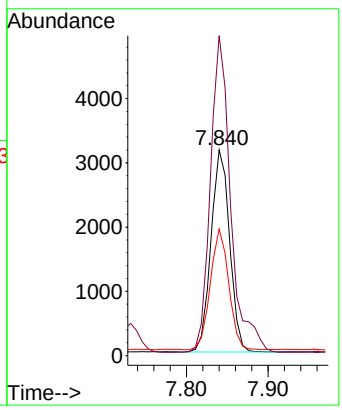


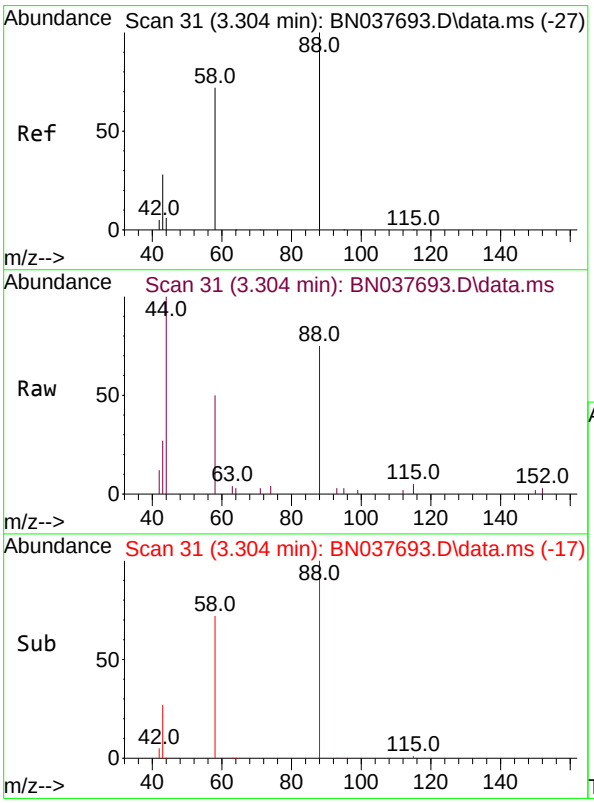
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 4992

Ion	Ratio	Lower	Upper
152	100		
150	155.6	124.5	186.7
115	61.5	49.2	73.8

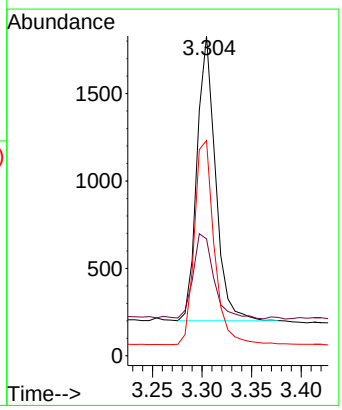


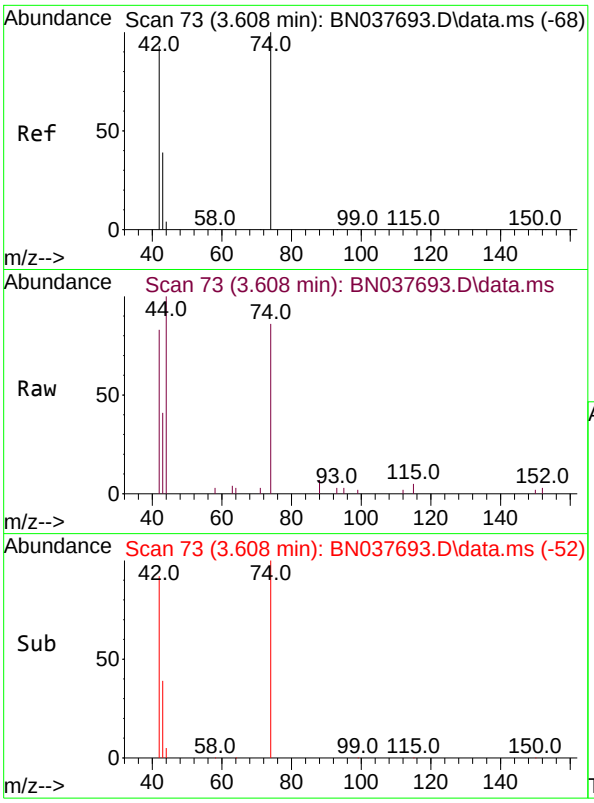


#2
1,4-Dioxane
Concen: 0.405 ng
RT: 3.304 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion: 88 Resp: 2106

Ion	Ratio	Lower	Upper
88	100		
43	33.5	26.8	40.2
58	77.6	61.9	92.9



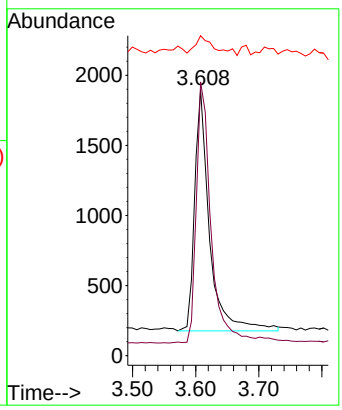


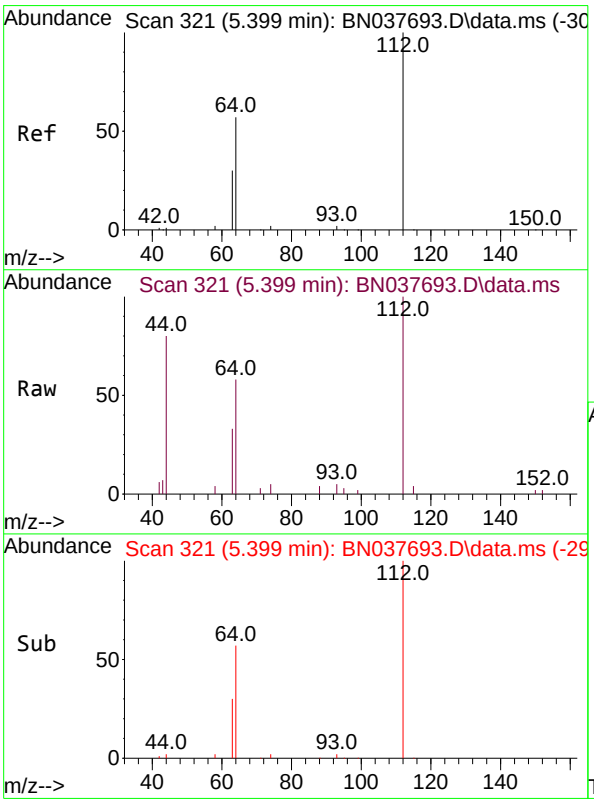
#3
n-Nitrosodimethylamine
Concen: 0.414 ng
RT: 3.608 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 2814

Ion	Ratio	Lower	Upper
42	100		
74	106.5	86.0	129.0
44	10.4	8.4	12.6

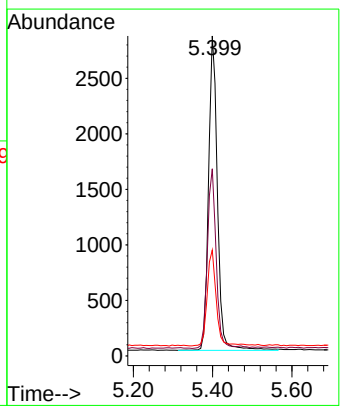


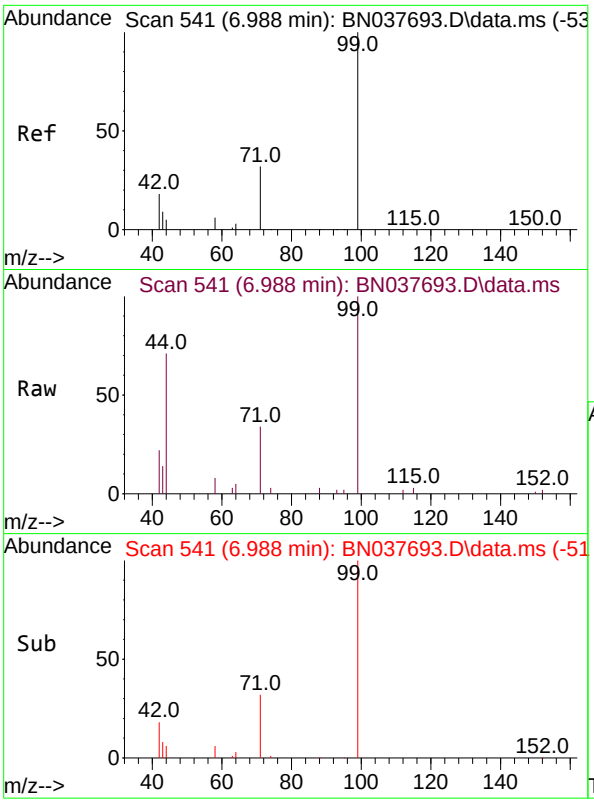


#4
2-Fluorophenol
Concen: 0.388 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:112 Resp: 4452

Ion	Ratio	Lower	Upper
112	100		
64	56.1	44.9	67.3
63	30.9	24.7	37.1



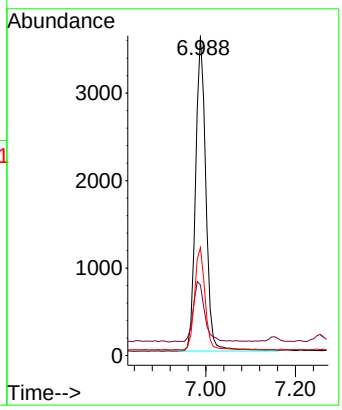


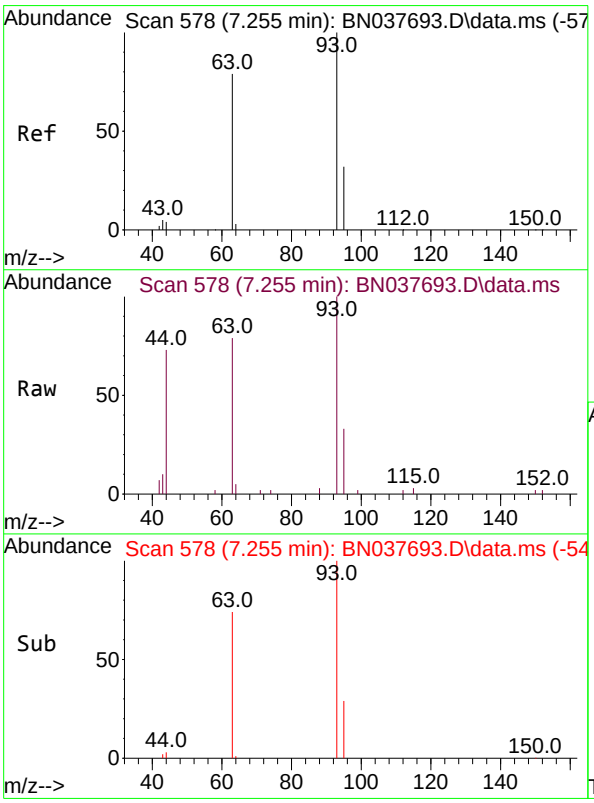
#5
Phenol-d6
Concen: 0.388 ng
RT: 6.988 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 5771

Ion	Ratio	Lower	Upper
99	100		
42	20.7	16.6	24.8
71	33.4	26.7	40.1

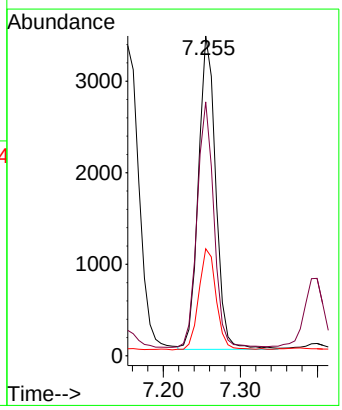


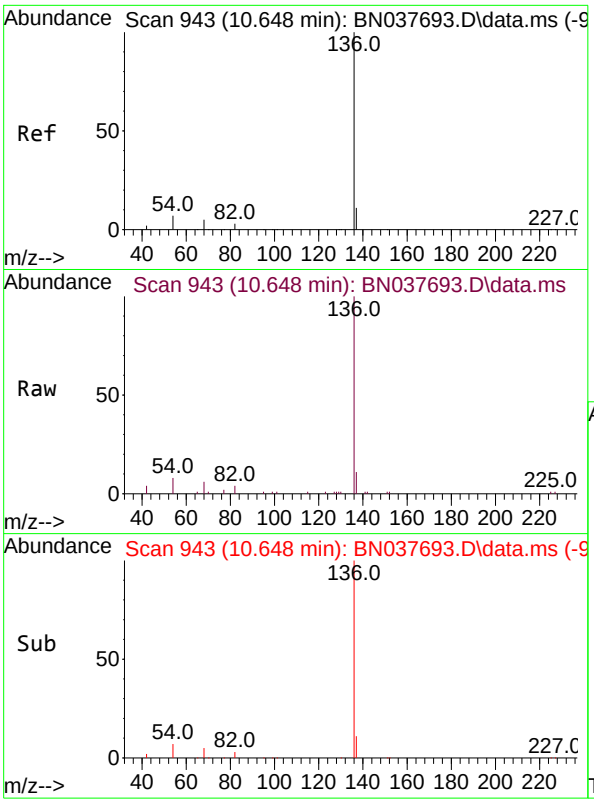


#6
bis(2-Chloroethyl)ether
Concen: 0.402 ng
RT: 7.255 min Scan# 578
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion: 93 Resp: 5343

Ion	Ratio	Lower	Upper
93	100		
63	75.7	60.6	90.8
95	32.5	26.0	39.0



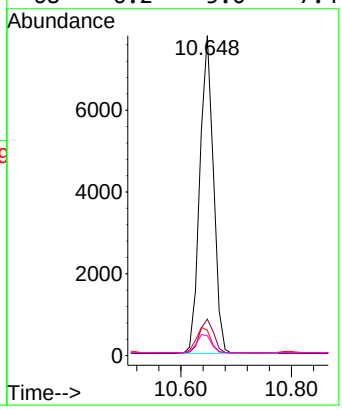


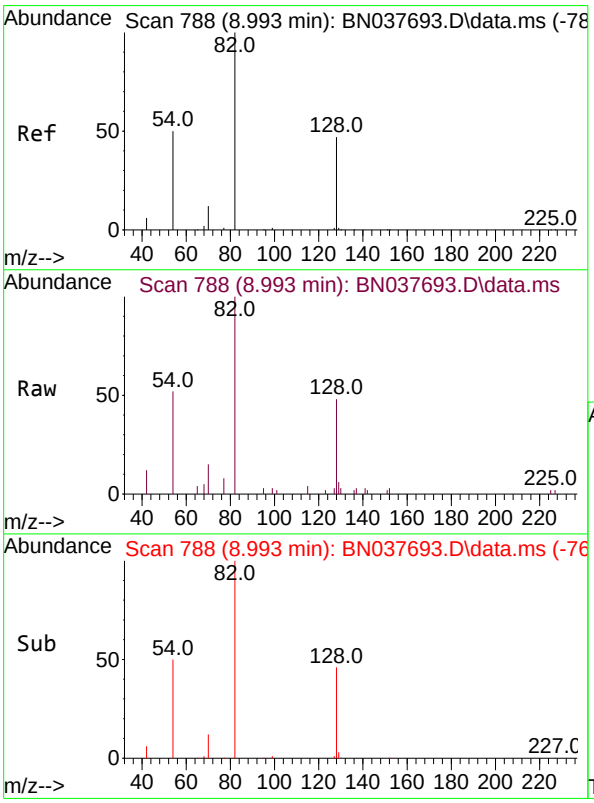
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 13249

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.9	6.3	9.5
68	6.2	5.0	7.4

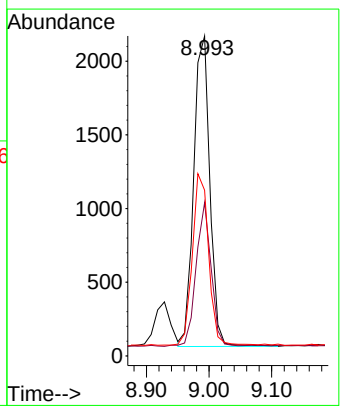


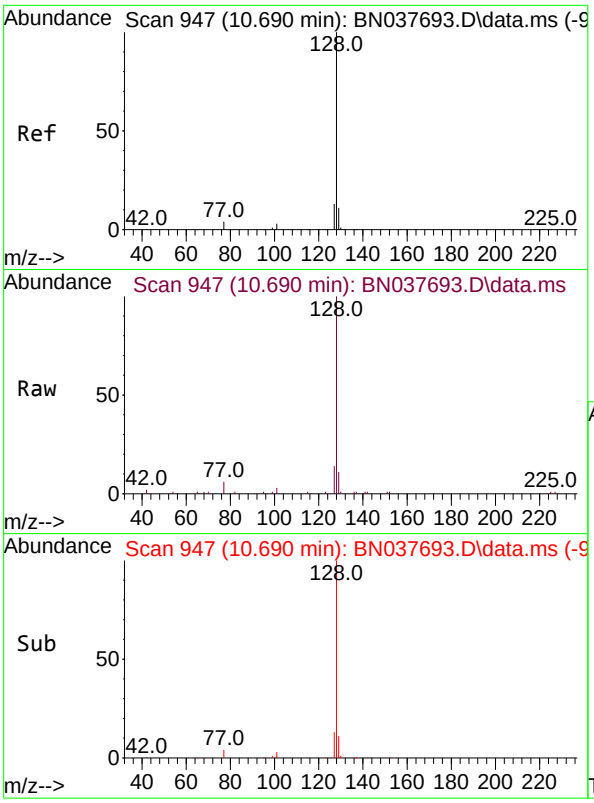


#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.993 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion: 82 Resp: 3770

Ion	Ratio	Lower	Upper
82	100		
128	47.9	38.3	57.5
54	51.8	41.4	62.2



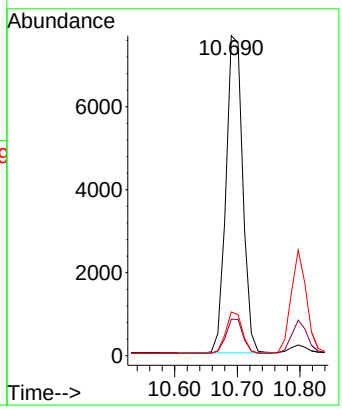


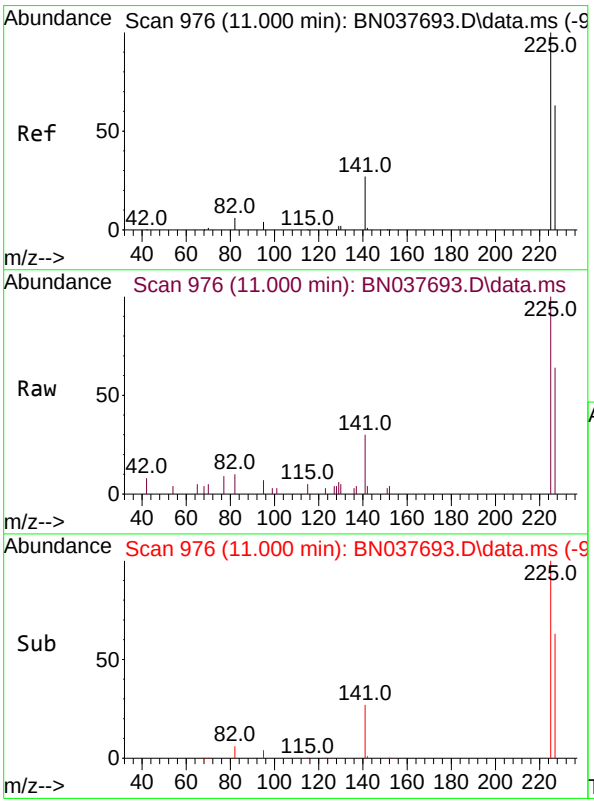
#9
Naphthalene
Concen: 0.393 ng
RT: 10.690 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 14229

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.6	10.9	16.3

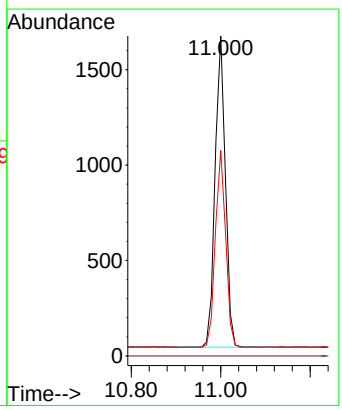


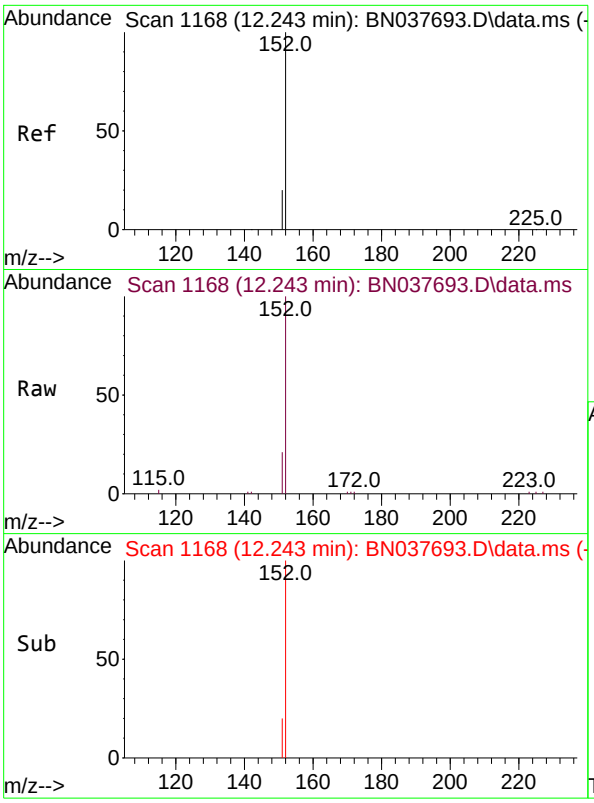


#10
Hexachlorobutadiene
Concen: 0.399 ng
RT: 11.000 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:225 Resp: 2615

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	50.9	76.3



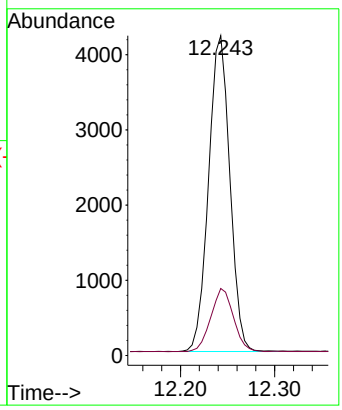


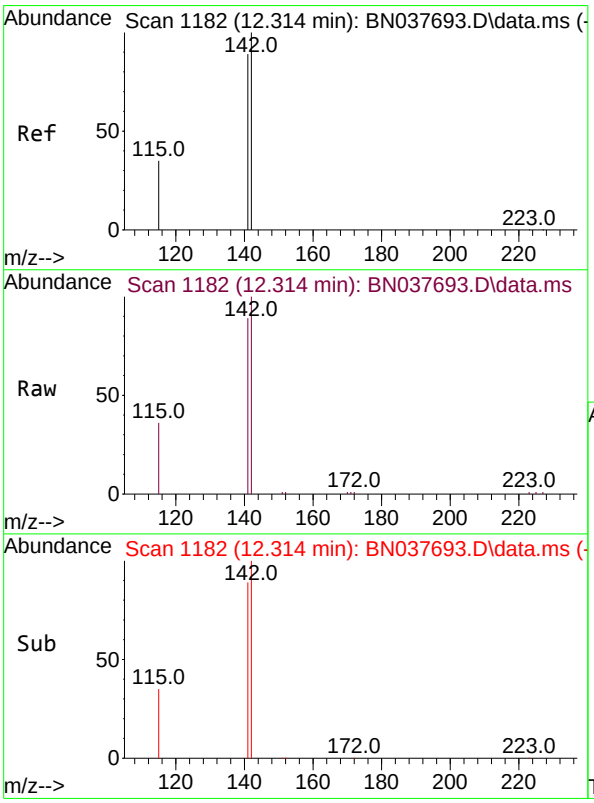
#11
2-Methylnaphthalene-d10
Concen: 0.376 ng
RT: 12.243 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 6602

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

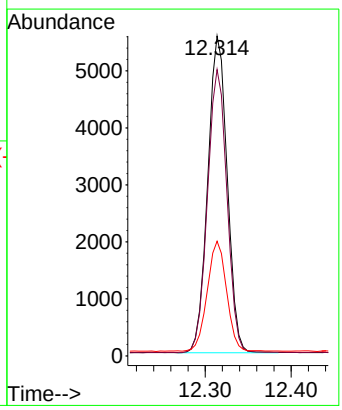


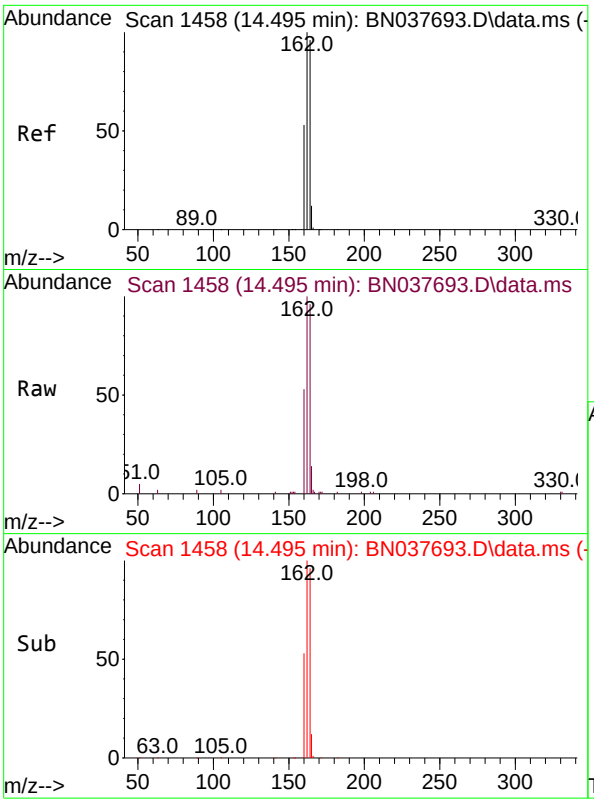


#12
2-Methylnaphthalene
Concen: 0.390 ng
RT: 12.314 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:142 Resp: 8728

Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.6	107.4
115	35.8	28.6	43.0



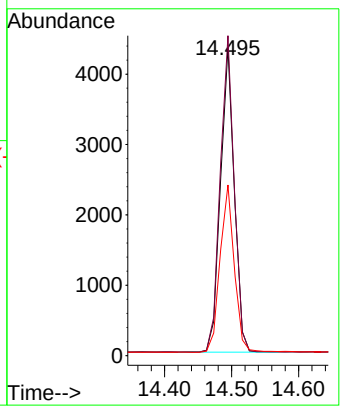


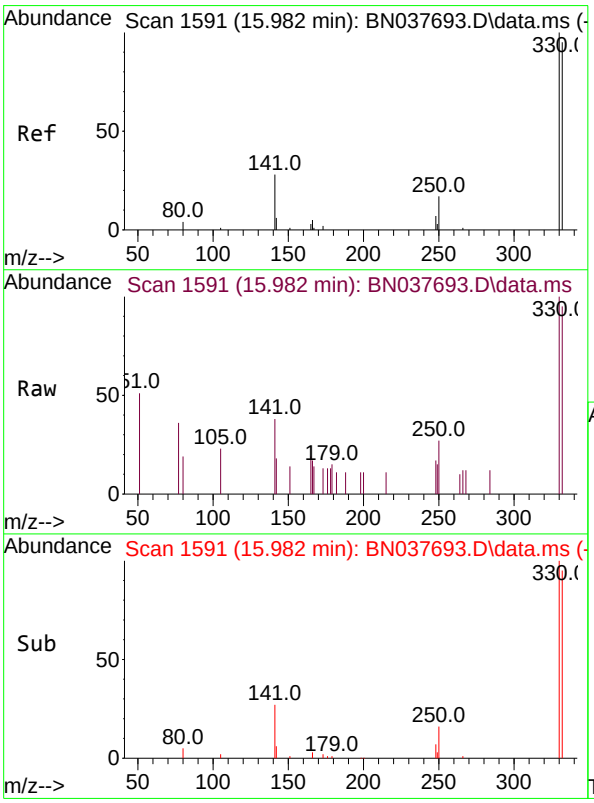
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 6204

Ion	Ratio	Lower	Upper
164	100		
162	103.9	83.1	124.7
160	55.4	44.3	66.5

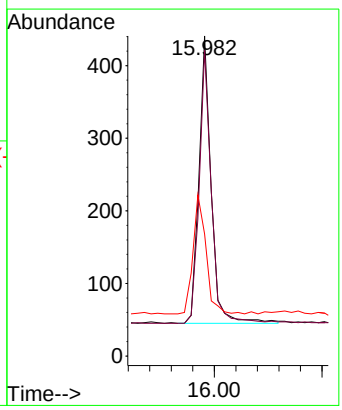


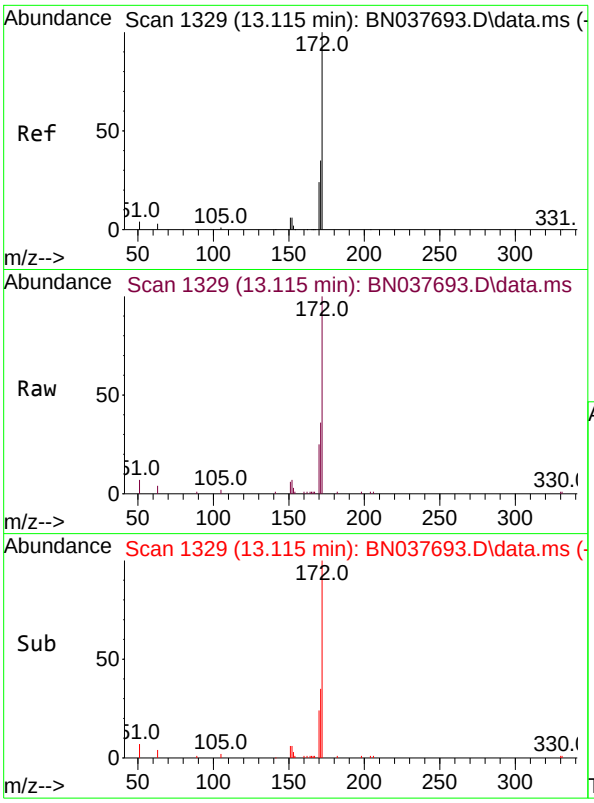


#14
2,4,6-Tribromophenol
Concen: 0.386 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:330 Resp: 625

Ion	Ratio	Lower	Upper
330	100		
332	94.1	75.3	112.9
141	43.7	35.0	52.4



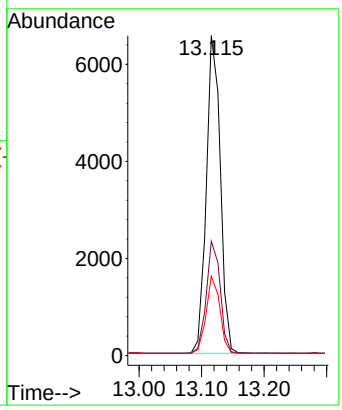


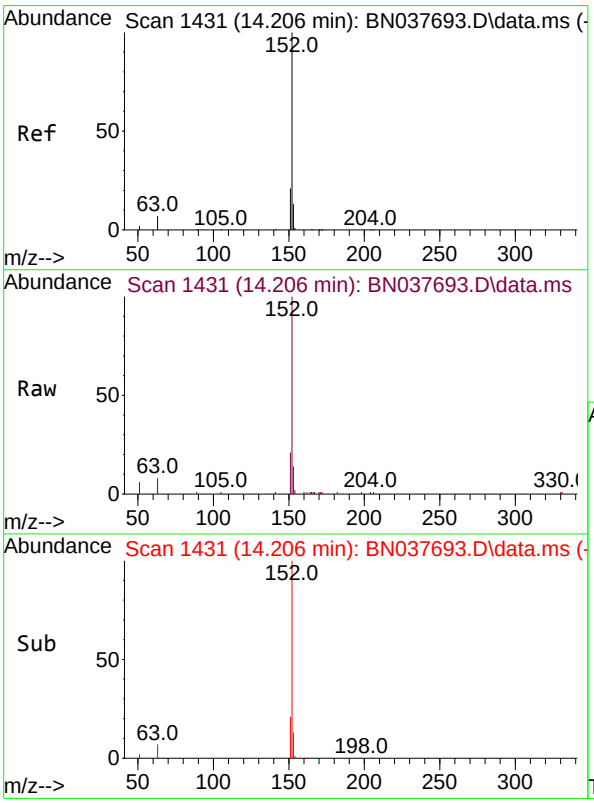
#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 13.115 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 10228

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.8	19.8	29.8

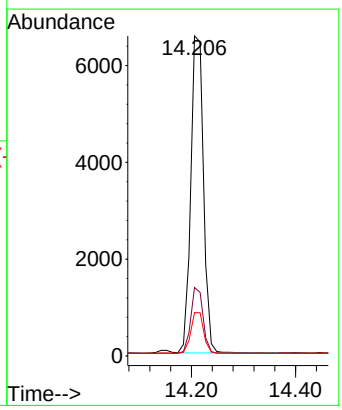


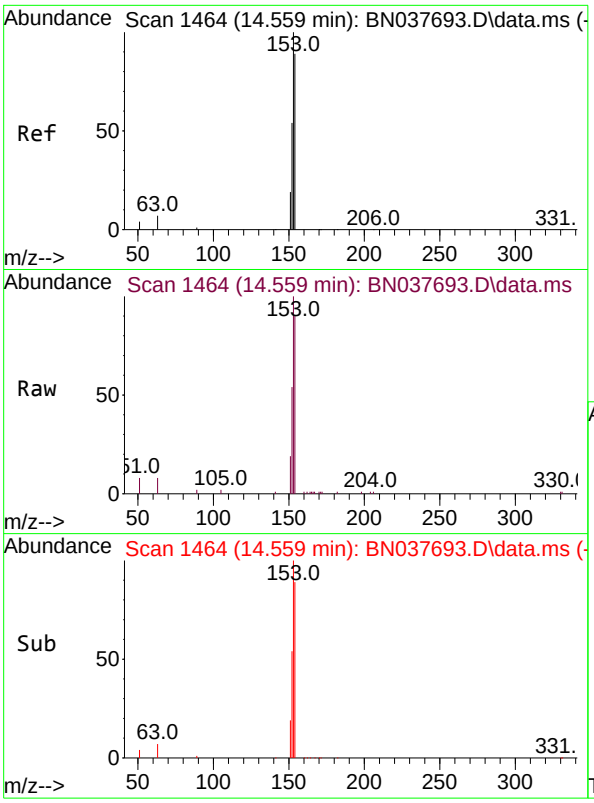


#16
Acenaphthylene
Concen: 0.389 ng
RT: 14.206 min Scan# 1431
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:152 Resp: 11064

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.0	10.4	15.6



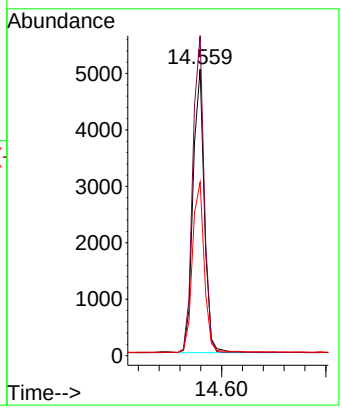


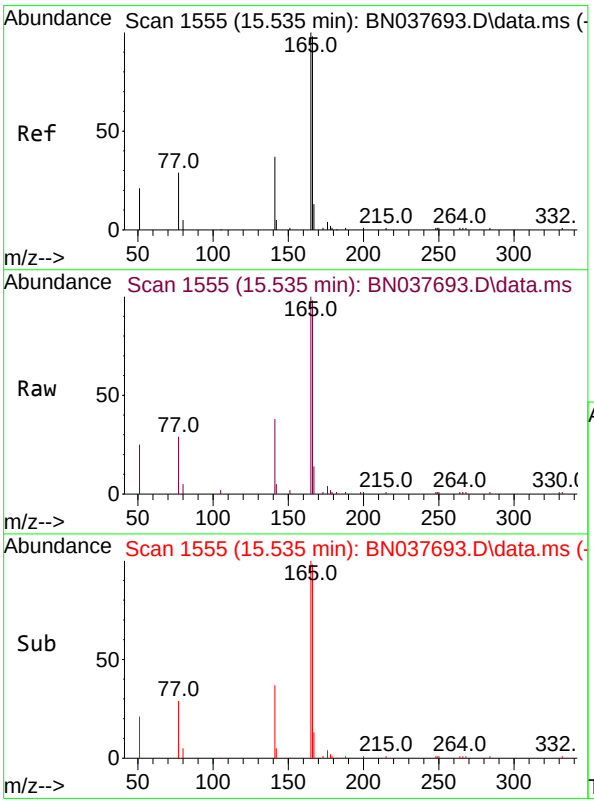
#17
Acenaphthene
Concen: 0.392 ng
RT: 14.559 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 7540

Ion	Ratio	Lower	Upper
154	100		
153	112.3	89.8	134.8
152	62.7	50.2	75.2

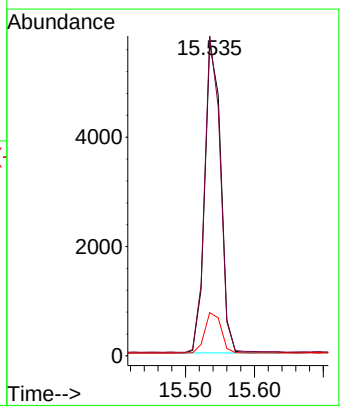


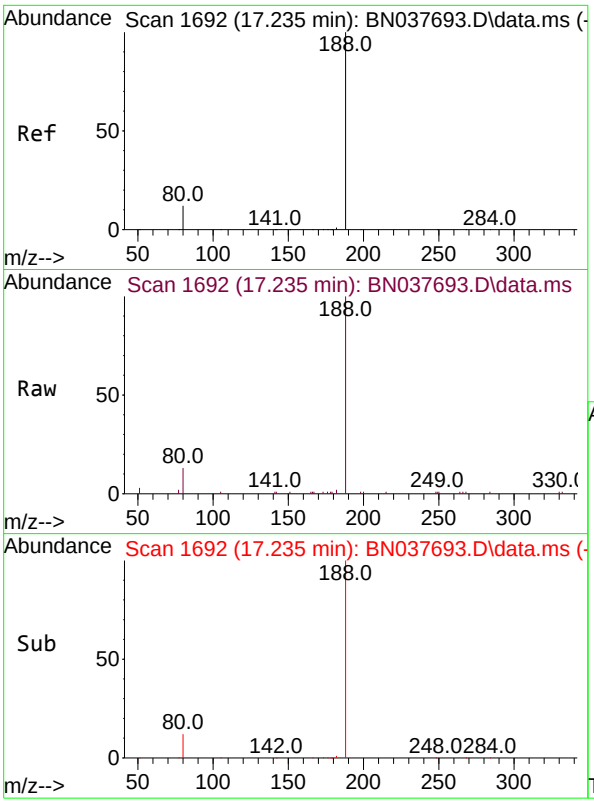


#18
Fluorene
Concen: 0.384 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:166 Resp: 8938

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.6	119.4
167	13.3	10.6	16.0



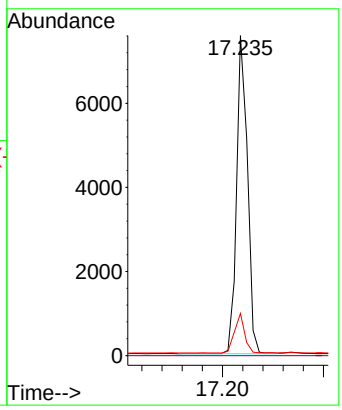


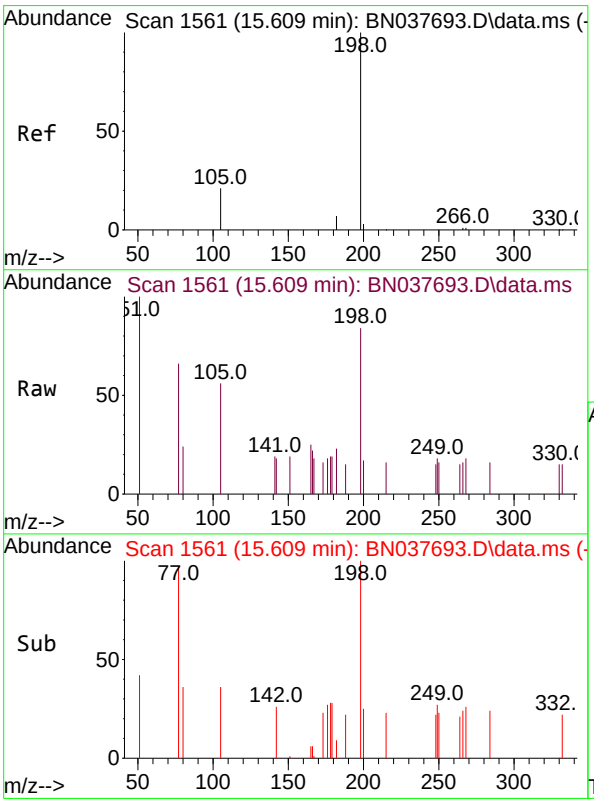
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 11263

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.2	10.6	15.8

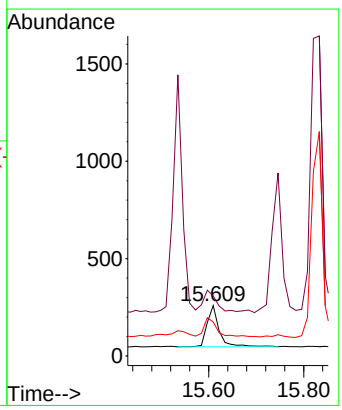


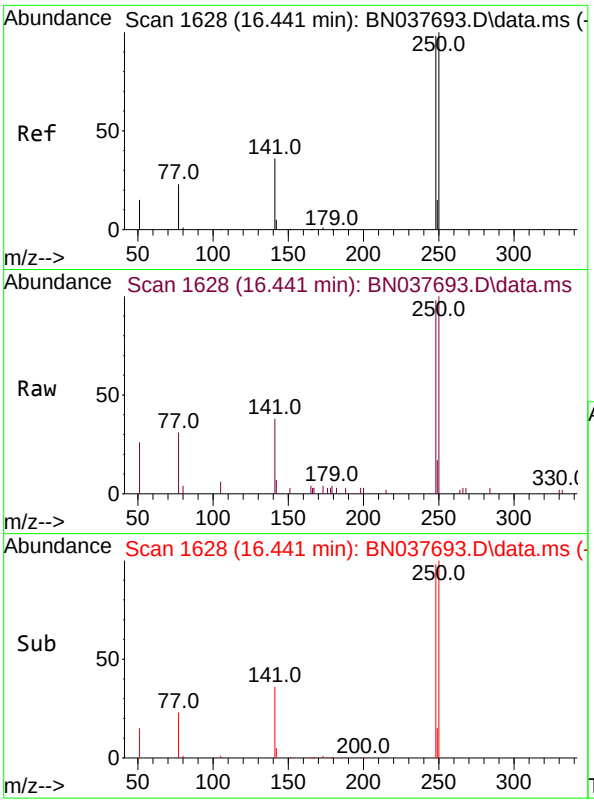


#20
4,6-Dinitro-2-methylphenol
Concen: 0.357 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:198 Resp: 372

Ion	Ratio	Lower	Upper
198	100		
51	118.9	95.1	142.7
105	67.2	53.8	80.6



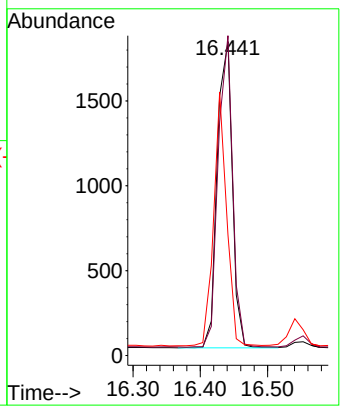


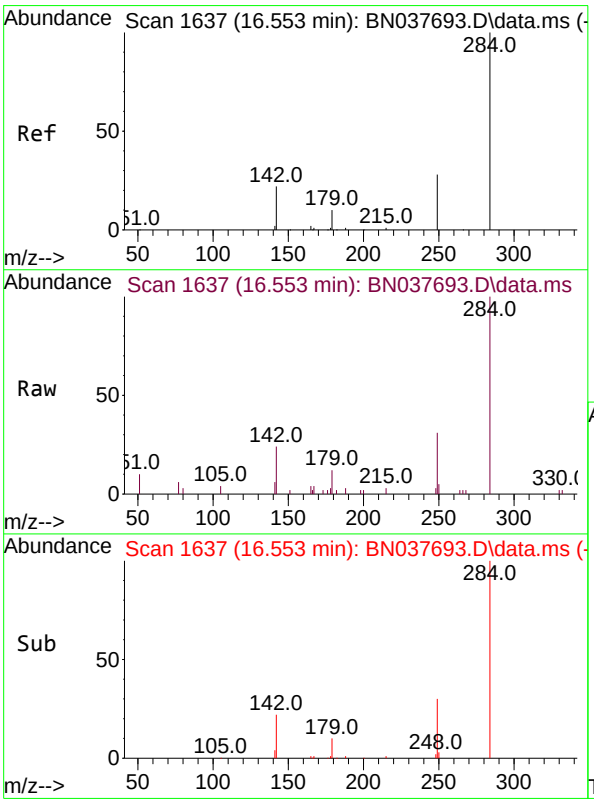
#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 2827

Ion	Ratio	Lower	Upper
248	100		
250	101.9	81.5	122.3
141	38.5	30.8	46.2

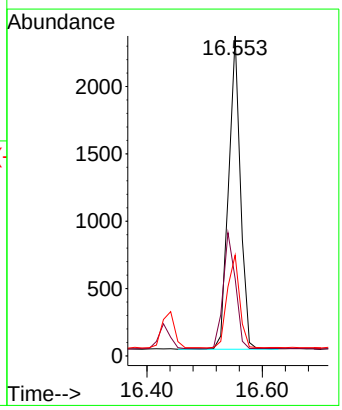


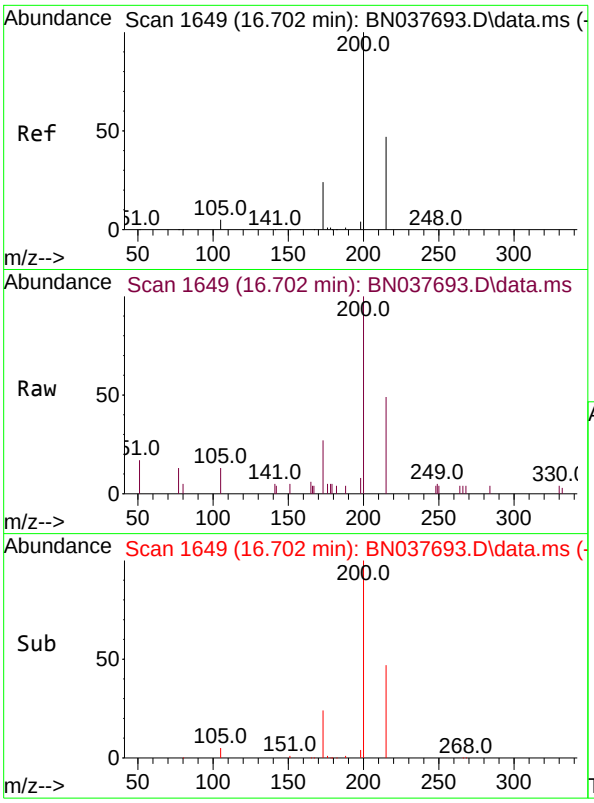


#22
Hexachlorobenzene
Concen: 0.392 ng
RT: 16.553 min Scan# 1637
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:284 Resp: 3312

Ion	Ratio	Lower	Upper
284	100		
142	38.6	30.9	46.3
249	31.0	24.8	37.2



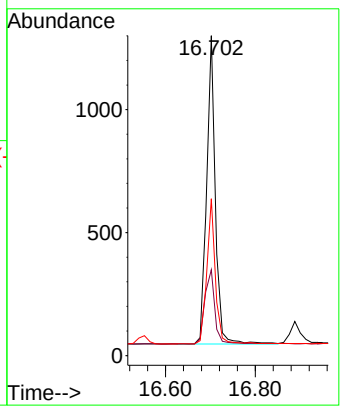


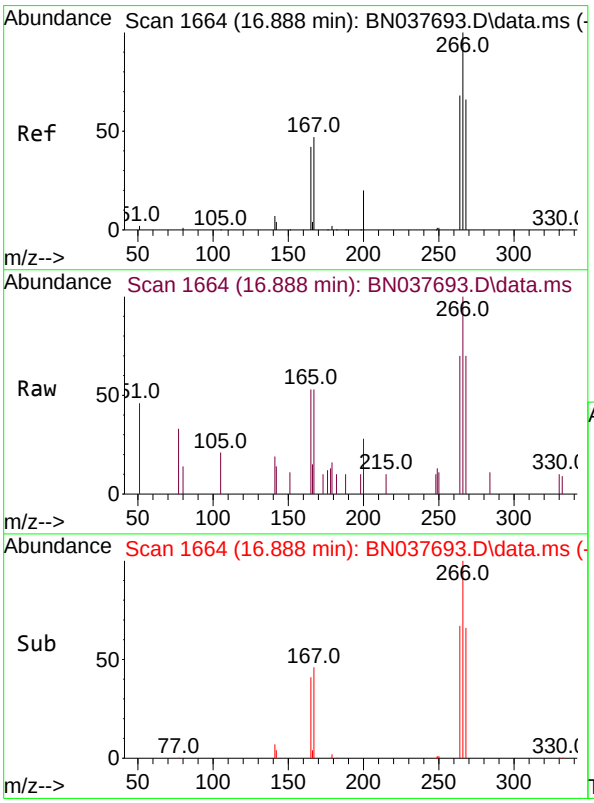
#23
Atrazine
Concen: 0.365 ng
RT: 16.702 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 1707

Ion	Ratio	Lower	Upper
200	100		
173	26.8	21.4	32.2
215	49.0	39.2	58.8

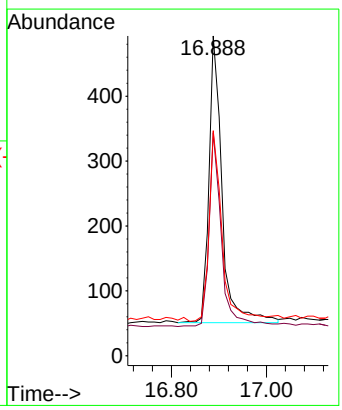


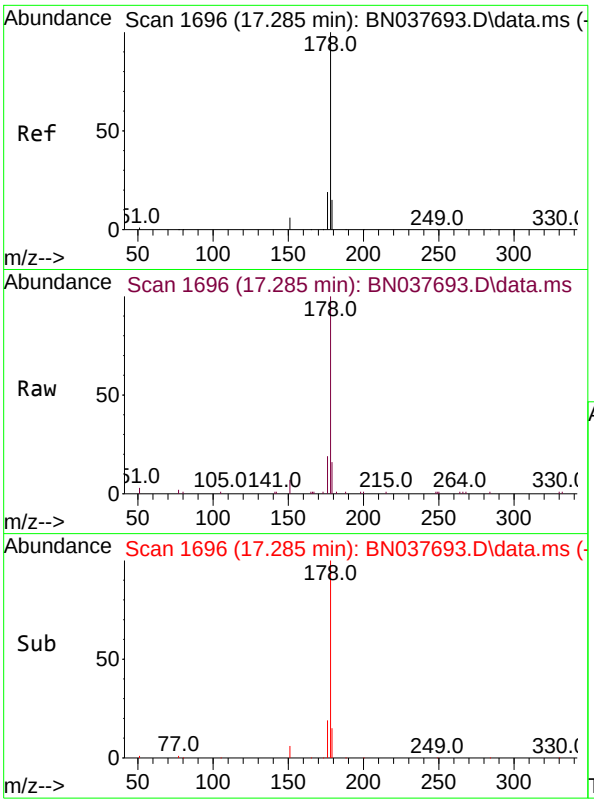


#24
Pentachlorophenol
Concen: 0.342 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:266 Resp: 839

Ion	Ratio	Lower	Upper
266	100		
264	64.5	51.6	77.4
268	66.5	53.2	79.8



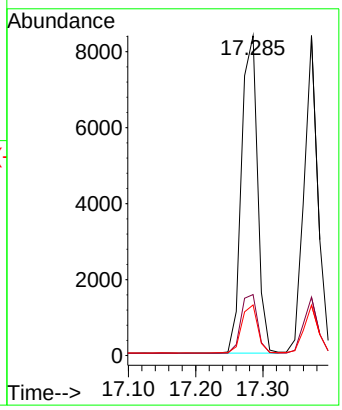


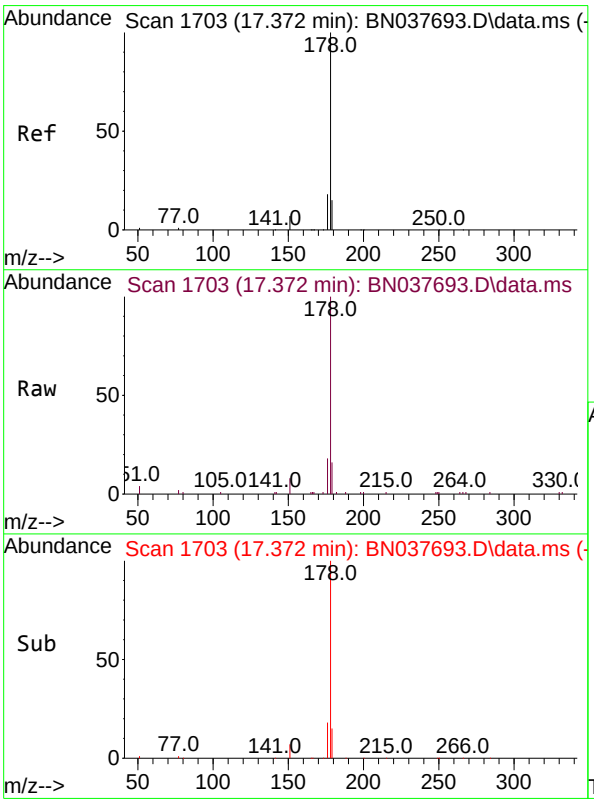
#25
Phenanthrene
Concen: 0.389 ng
RT: 17.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 13778

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.2	12.2	18.2

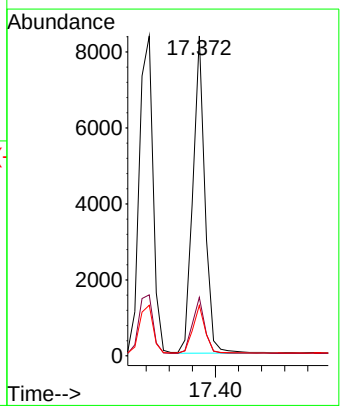


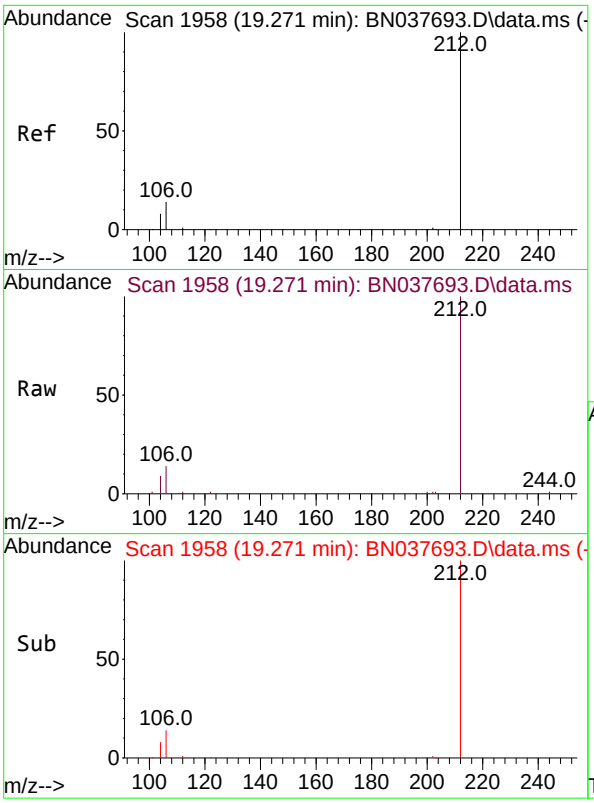


#26
Anthracene
Concen: 0.384 ng
RT: 17.372 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:178 Resp: 12049

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.6	22.0
179	15.3	12.2	18.4



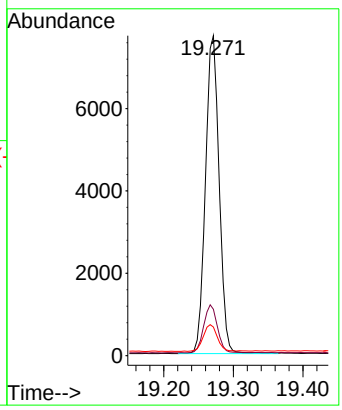


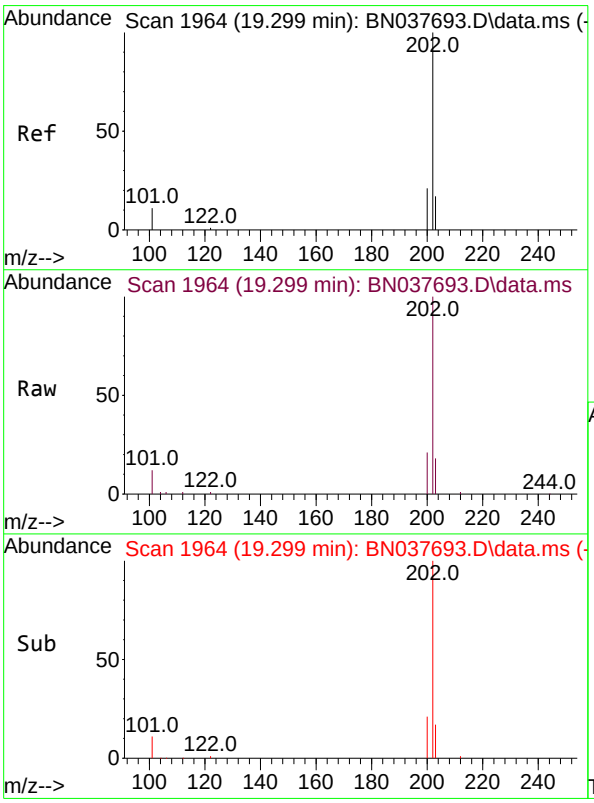
#27
Fluoranthene-d10
Concen: 0.372 ng
RT: 19.271 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 10530

Ion	Ratio	Lower	Upper
212	100		
106	15.2	12.2	18.2
104	8.6	6.9	10.3

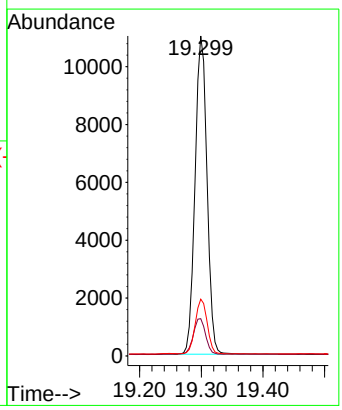


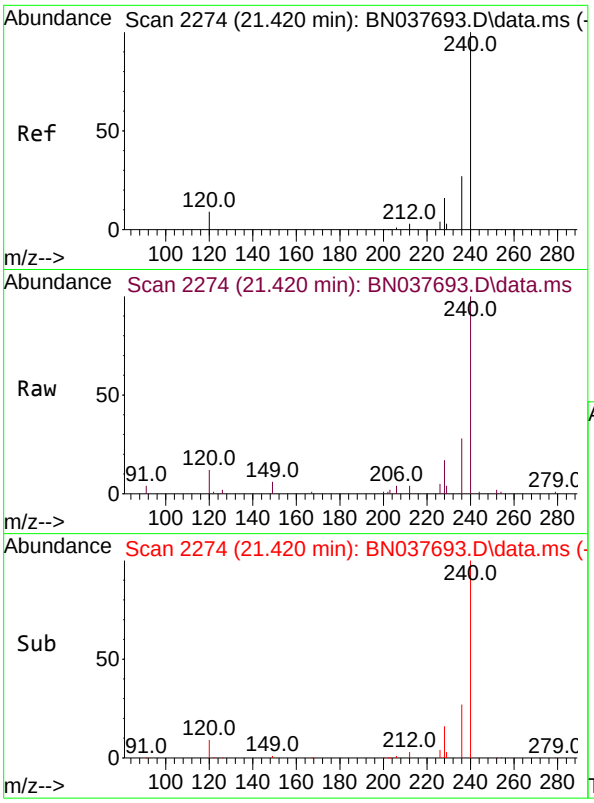


#28
Fluoranthene
Concen: 0.379 ng
RT: 19.299 min Scan# 1964
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:202 Resp: 14751

Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.3	13.9
203	17.1	13.7	20.5



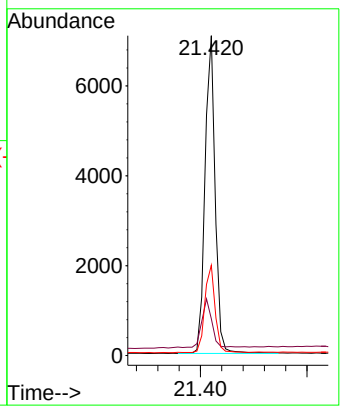


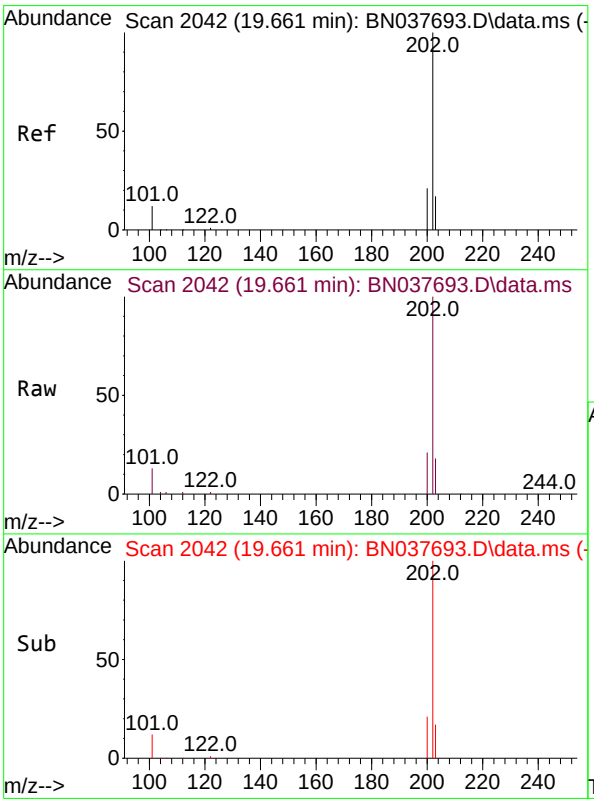
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 9368

Ion	Ratio	Lower	Upper
240	100		
120	11.5	9.2	13.8
236	28.2	22.6	33.8

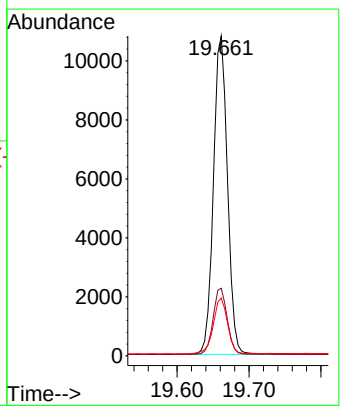


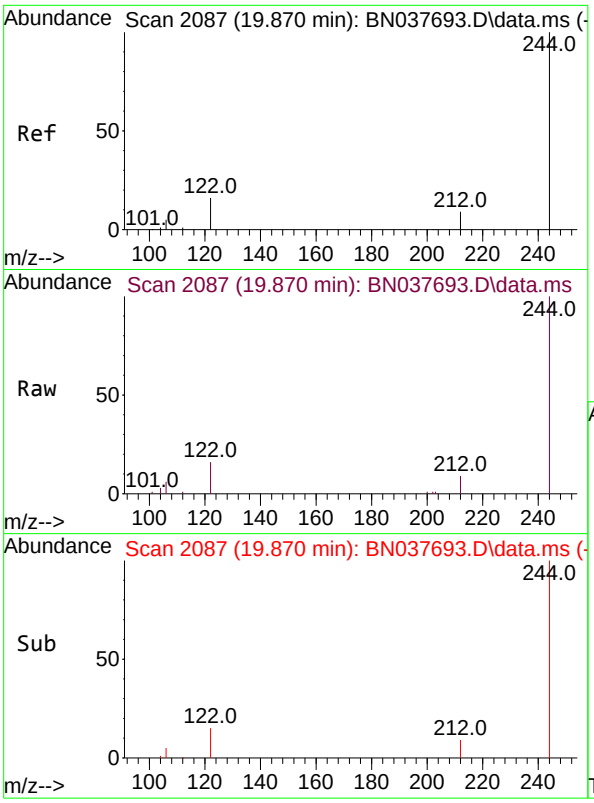


#30
Pyrene
Concen: 0.398 ng
RT: 19.661 min Scan# 2042
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:202 Resp: 14587

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.9	14.3	21.5



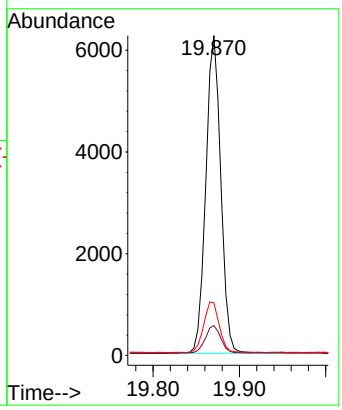


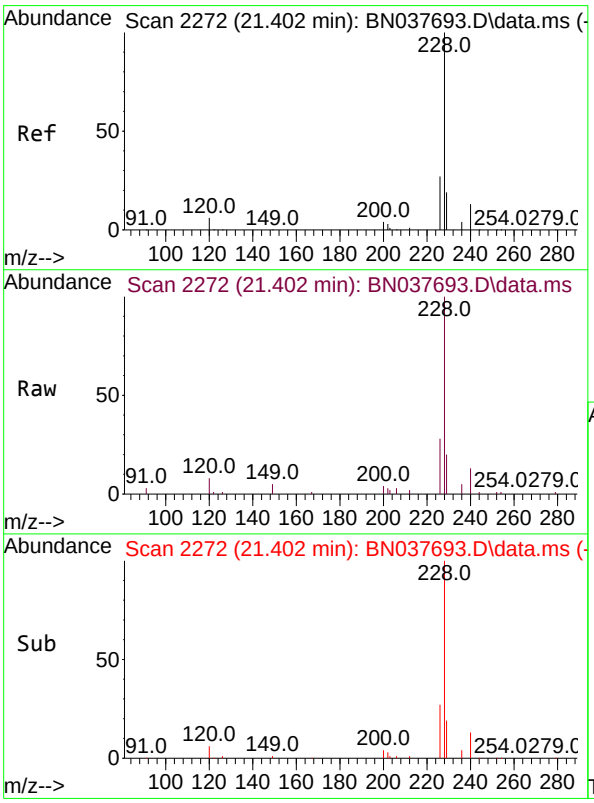
#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.870 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 7507

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	16.5	13.2	19.8

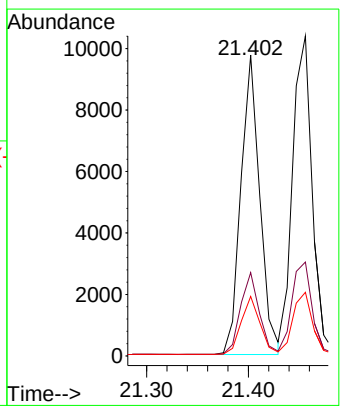


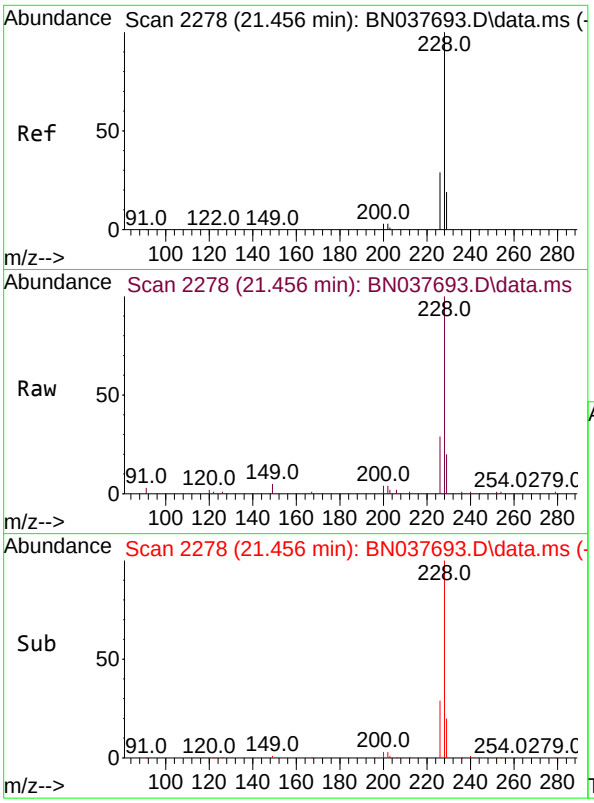


#32
Benzo(a)anthracene
Concen: 0.386 ng
RT: 21.402 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:228 Resp: 12621

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.2
229	19.7	15.8	23.6



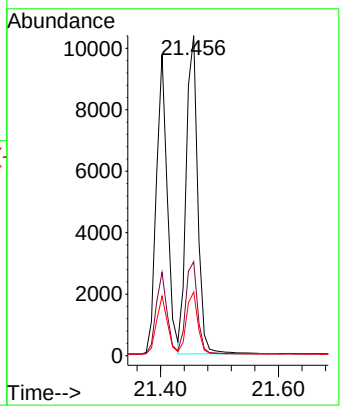


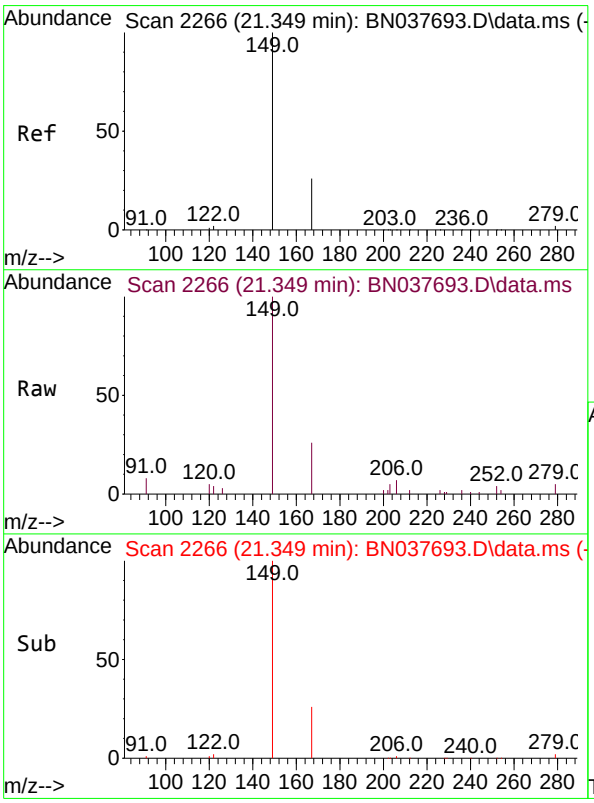
#33
Chrysene
Concen: 0.400 ng
RT: 21.456 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 14018

Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.5	35.3
229	19.9	15.9	23.9

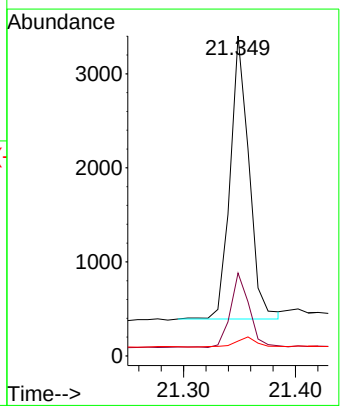


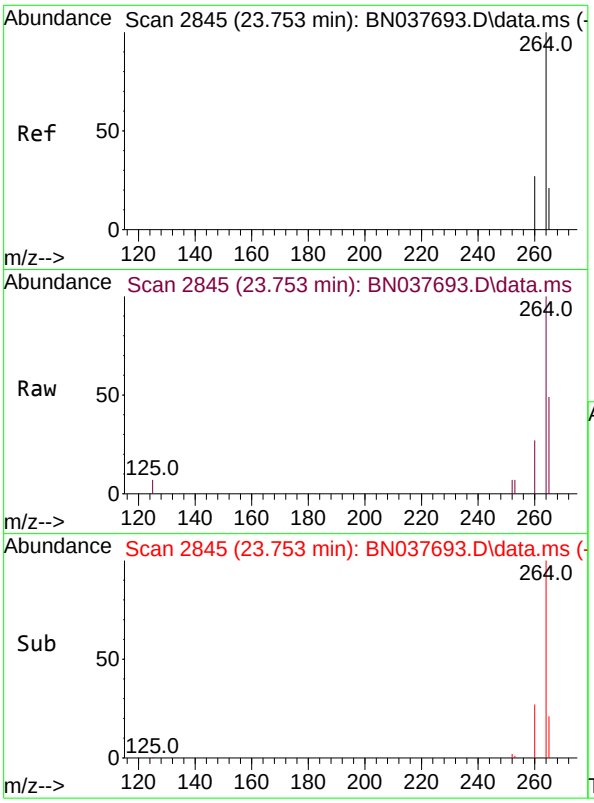


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.363 ng
RT: 21.349 min Scan# 2266
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:149 Resp: 3520

Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.8	31.2
279	4.0	3.3	4.9



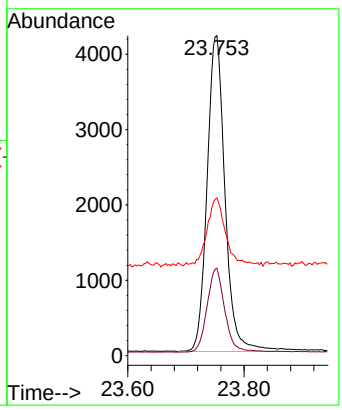


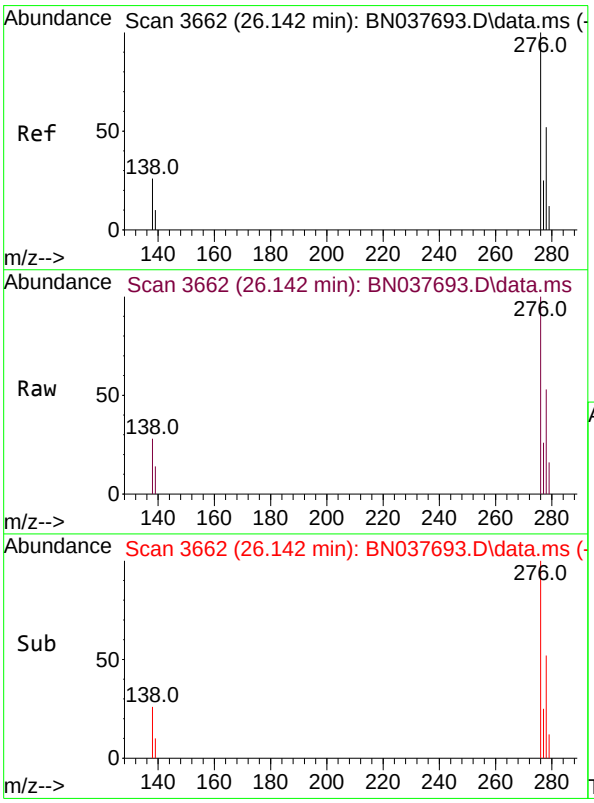
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 8965

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.8	32.8
265	49.3	39.4	59.2

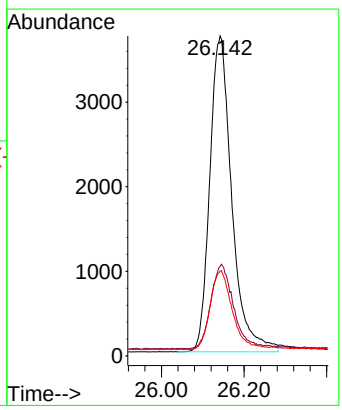


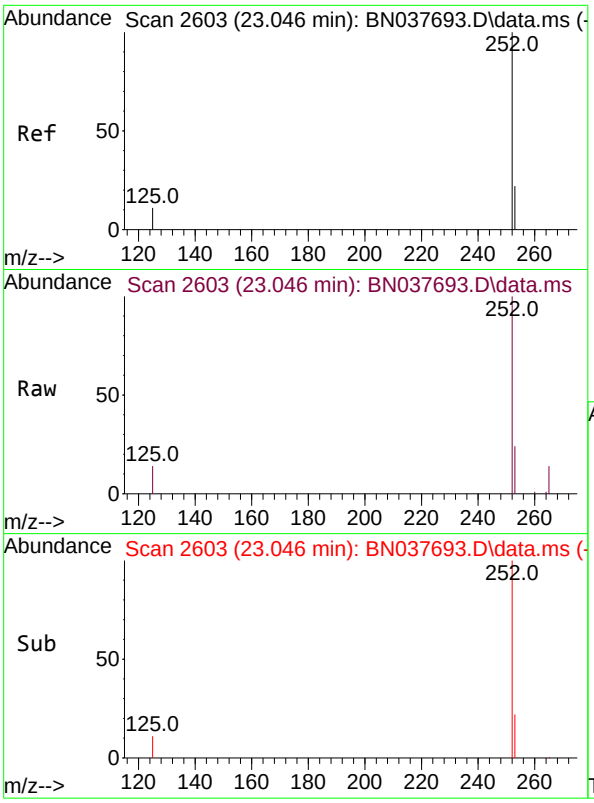


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.367 ng
RT: 26.142 min Scan# 3662
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:276 Resp: 13835

Ion	Ratio	Lower	Upper
276	100		
138	27.4	21.9	32.9
277	25.1	20.1	30.1



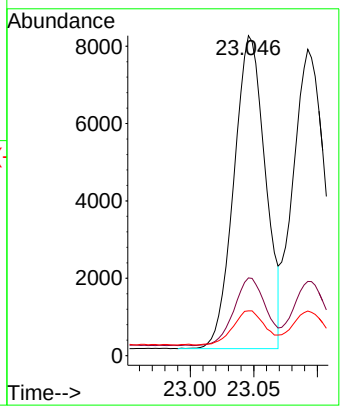


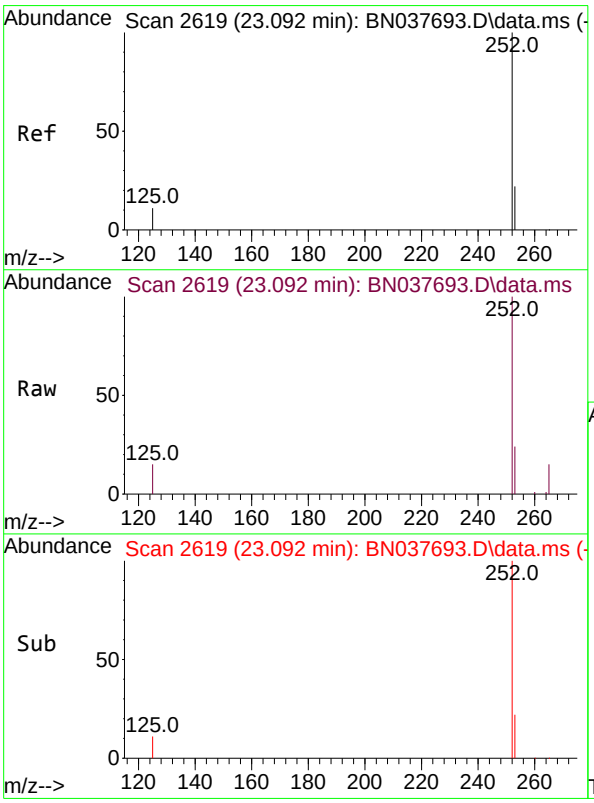
#37
Benzo(b)fluoranthene
Concen: 0.395 ng
RT: 23.046 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 13935

Ion	Ratio	Lower	Upper
252	100		
253	24.3	19.4	29.2
125	14.0	11.2	16.8

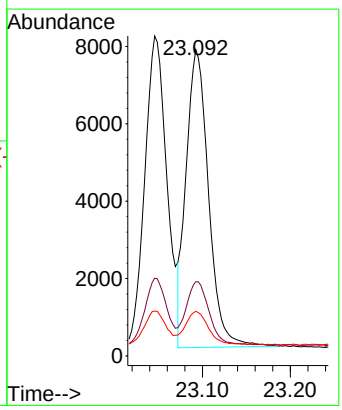


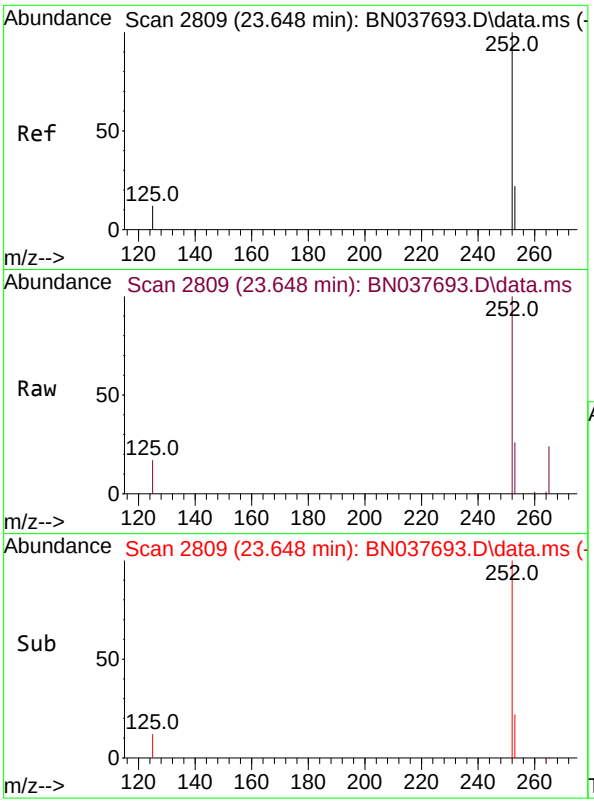


#38
Benzo(k)fluoranthene
Concen: 0.379 ng
RT: 23.092 min Scan# 2619
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:252 Resp: 13659

Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.4	29.0
125	14.5	11.6	17.4



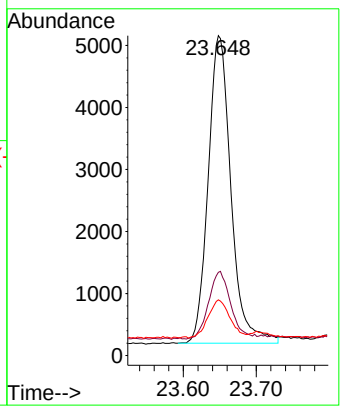


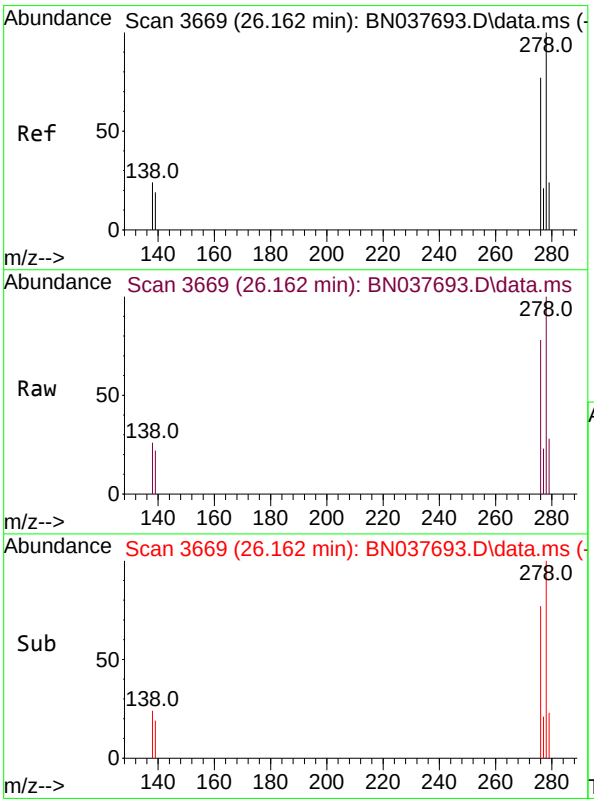
#39
Benzo(a)pyrene
Concen: 0.381 ng
RT: 23.648 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 10766

Ion	Ratio	Lower	Upper
252	100		
253	26.0	20.8	31.2
125	17.4	13.9	20.9

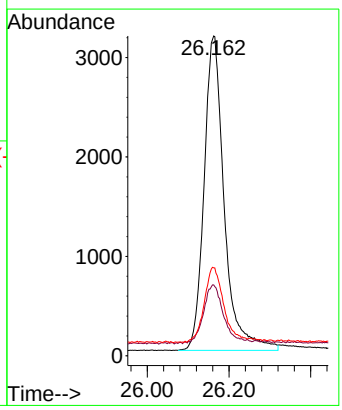


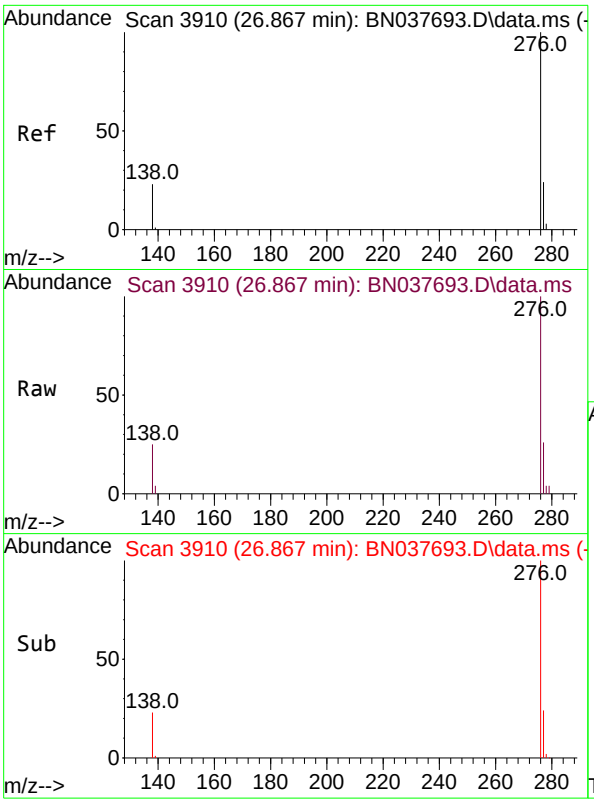


#40
Dibenzo(a,h)anthracene
Concen: 0.361 ng
RT: 26.162 min Scan# 3669
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:278 Resp: 10852

Ion	Ratio	Lower	Upper
278	100		
139	22.2	17.8	26.6
279	27.5	22.0	33.0



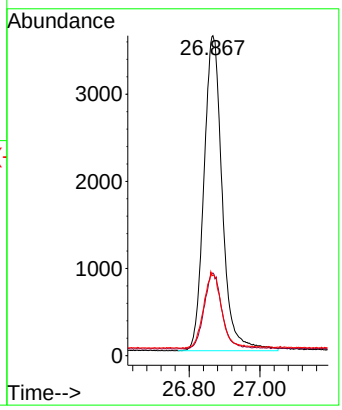


#41
Benzo(g,h,i)perylene
Concen: 0.385 ng
RT: 26.867 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 13009

Ion	Ratio	Lower	Upper
276	100		
277	25.8	20.6	31.0
138	25.2	20.2	30.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037694.D
Acq On : 11 Sep 2025 11:44
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Sep 11 14:06:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.840	152	5166	0.400	ng		0.00
7) Naphthalene-d8	10.648	136	13664	0.400	ng		0.00
13) Acenaphthene-d10	14.495	164	6297	0.400	ng		0.00
19) Phenanthrene-d10	17.235	188	11247	0.400	ng		0.00
29) Chrysene-d12	21.420	240	9536	0.400	ng		0.00
35) Perylene-d12	23.753	264	9336	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.399	112	8684	0.732	ng		0.00
5) Phenol-d6	6.988	99	11241	0.731	ng		0.00
8) Nitrobenzene-d5	8.993	82	7438	0.744	ng		0.00
11) 2-Methylnaphthalene-d10	12.243	152	13053	0.721	ng		0.00
14) 2,4,6-Tribromophenol	15.982	330	1211	0.737	ng		0.00
15) 2-Fluorobiphenyl	13.115	172	19971	0.758	ng		0.00
27) Fluoranthene-d10	19.271	212	19870	0.704	ng		0.00
31) Terphenyl-d14	19.870	244	14384	0.743	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.304	88	4244	0.789	ng		98
3) n-Nitrosodimethylamine	3.608	42	5321	0.757	ng	#	93
6) bis(2-Chloroethyl)ether	7.255	93	10526	0.766	ng		99
9) Naphthalene	10.690	128	28311	0.758	ng		100
10) Hexachlorobutadiene	11.000	225	5165	0.764	ng	#	99
12) 2-Methylnaphthalene	12.314	142	17311	0.749	ng		99
16) Acenaphthylene	14.206	152	21746	0.753	ng		99
17) Acenaphthene	14.559	154	14943	0.765	ng		100
18) Fluorene	15.535	166	17870	0.756	ng		97
20) 4,6-Dinitro-2-methylph...	15.609	198	751	0.721	ng	#	66
21) 4-Bromophenyl-phenylether	16.441	248	5576	0.760	ng		99
22) Hexachlorobenzene	16.553	284	6299	0.747	ng		99
23) Atrazine	16.702	200	3288	0.705	ng		98
24) Pentachlorophenol	16.888	266	1652	0.674	ng		97
25) Phenanthrene	17.285	178	26380	0.745	ng		100
26) Anthracene	17.372	178	23177	0.739	ng		100
28) Fluoranthene	19.299	202	28541	0.735	ng		100
30) Pyrene	19.661	202	28089	0.752	ng		100
32) Benzo(a)anthracene	21.402	228	24740	0.744	ng		99
33) Chrysene	21.456	228	26737	0.750	ng		99
34) Bis(2-ethylhexyl)phtha...	21.349	149	6579	0.667	ng		98
36) Indeno(1,2,3-cd)pyrene	26.142	276	28614	0.729	ng		100
37) Benzo(b)fluoranthene	23.049	252	26965	0.733	ng		98
38) Benzo(k)fluoranthene	23.095	252	28034	0.748	ng		98
39) Benzo(a)pyrene	23.651	252	21496	0.730	ng		95
40) Dibenzo(a,h)anthracene	26.162	278	23010	0.735	ng		95
41) Benzo(g,h,i)perylene	26.867	276	25683	0.731	ng		98

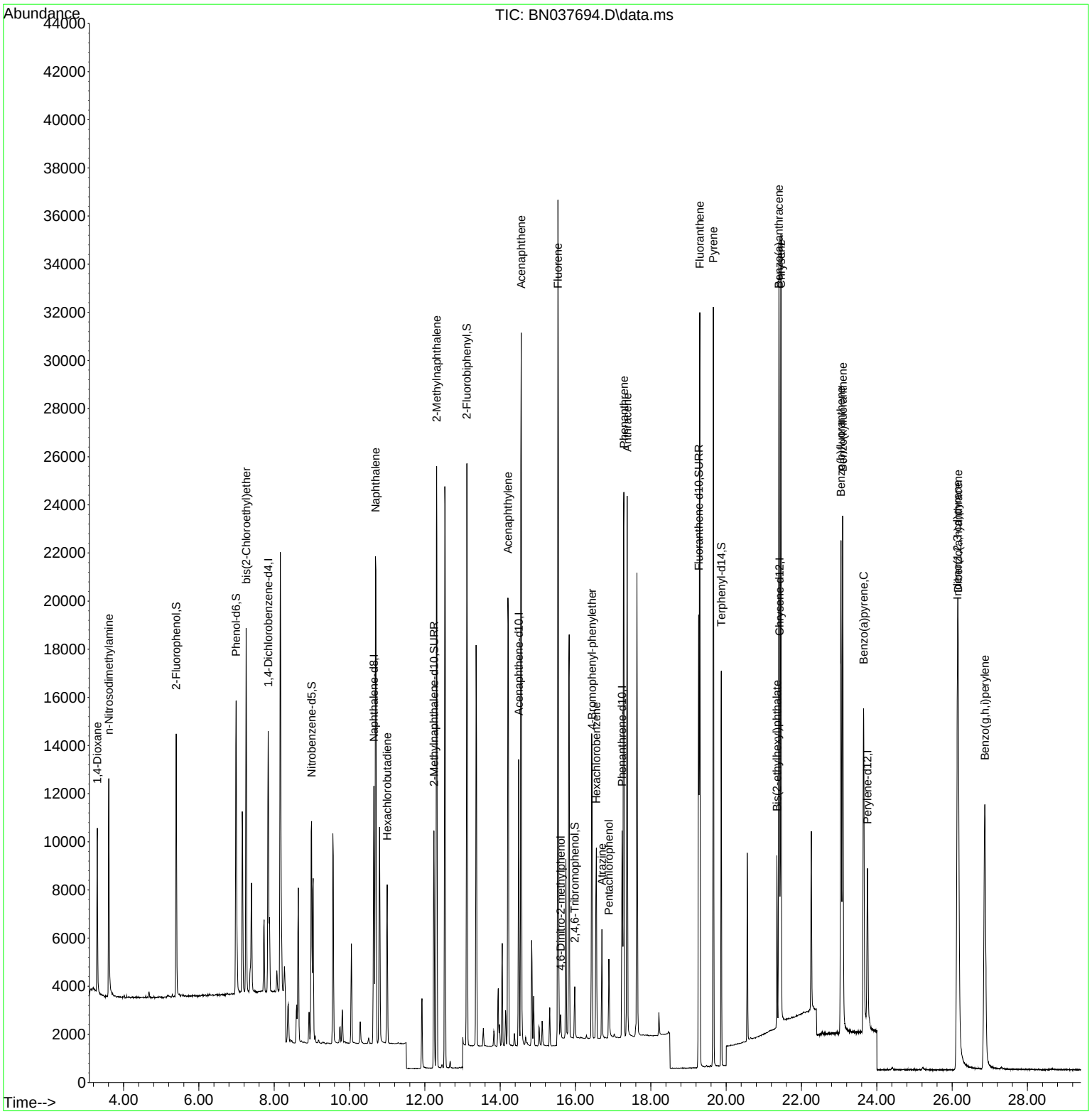
(#) = qualifier out of range (m) = manual integration (+) = signals summed

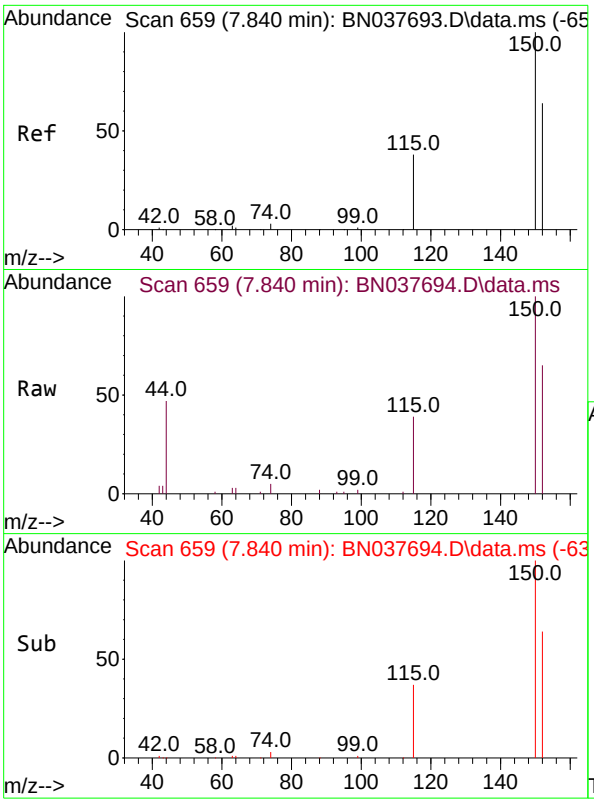
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037694.D
Acq On : 11 Sep 2025 11:44
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Sep 11 14:06:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



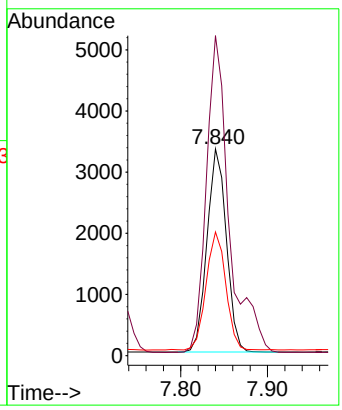


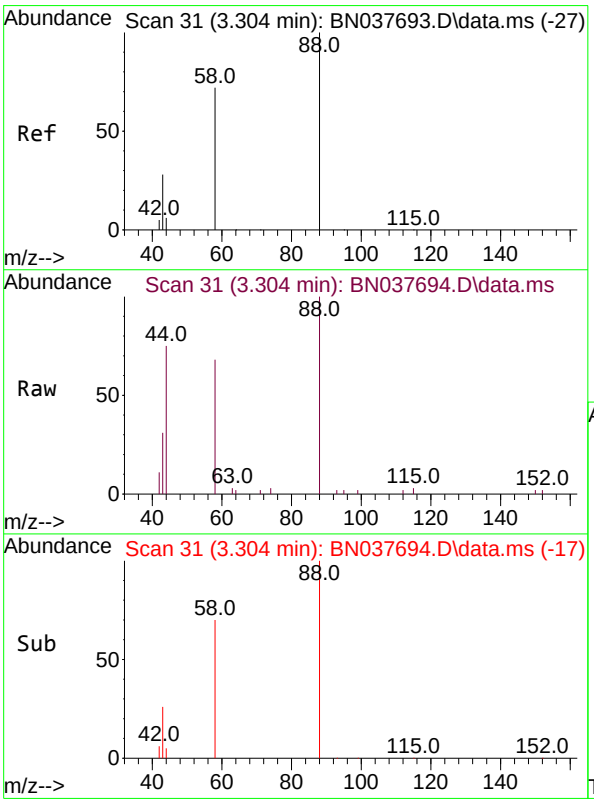
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 5166

Ion	Ratio	Lower	Upper
152	100		
150	154.9	124.5	186.7
115	59.8	49.2	73.8

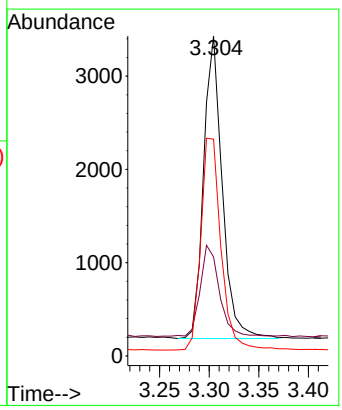


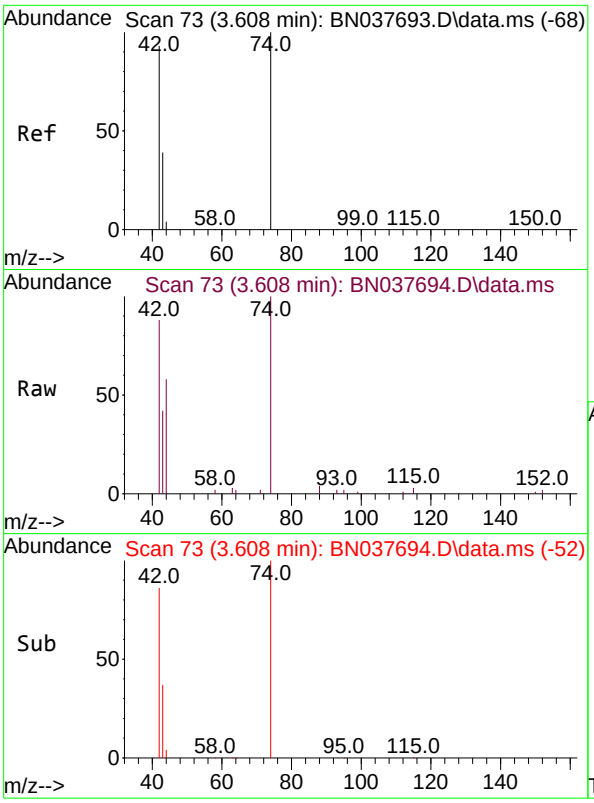


#2
1,4-Dioxane
Concen: 0.789 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion: 88 Resp: 4244

Ion	Ratio	Lower	Upper
88	100		
43	31.1	26.8	40.2
58	76.2	61.9	92.9



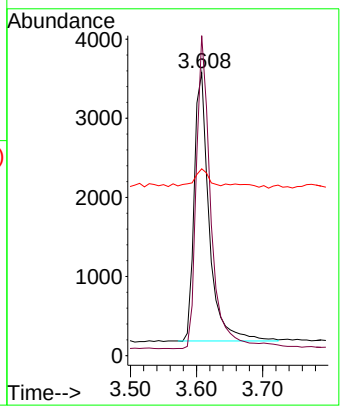


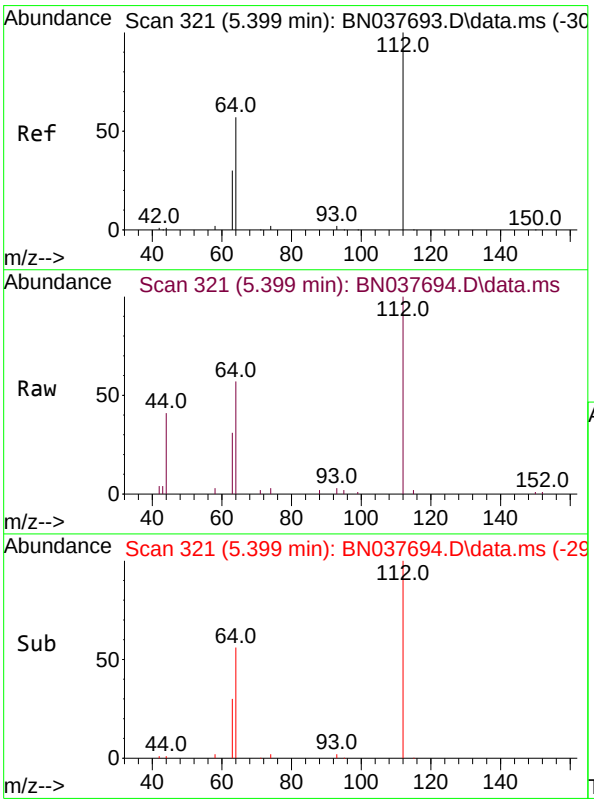
#3
n-Nitrosodimethylamine
Concen: 0.757 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 5321

Ion	Ratio	Lower	Upper
42	100		
74	114.4	86.0	129.0
44	6.9	8.4	12.6#

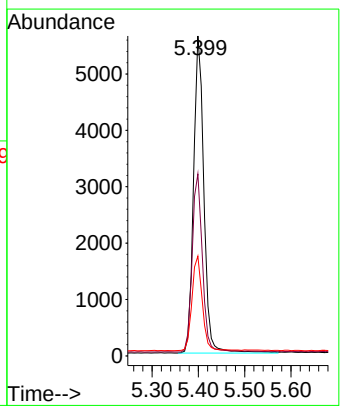


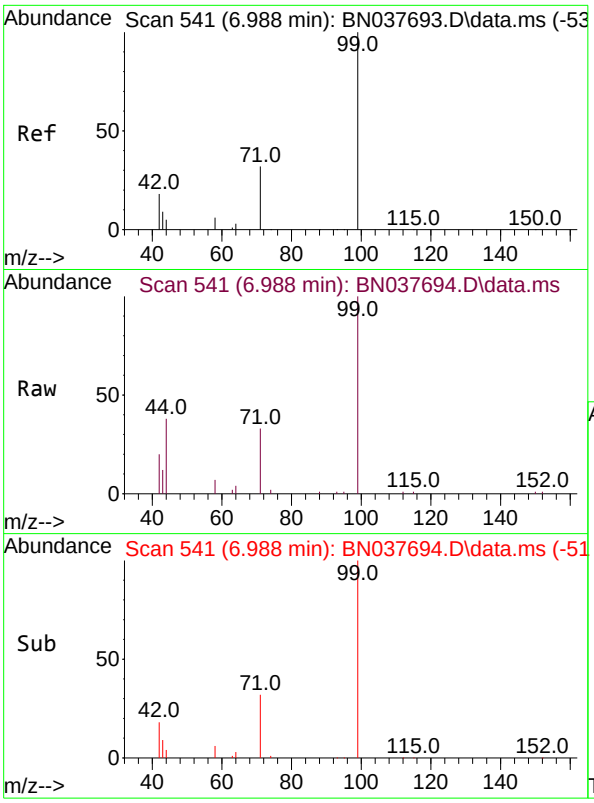


#4
2-Fluorophenol
Concen: 0.732 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:112 Resp: 8684

Ion	Ratio	Lower	Upper
112	100		
64	55.6	44.9	67.3
63	29.8	24.7	37.1



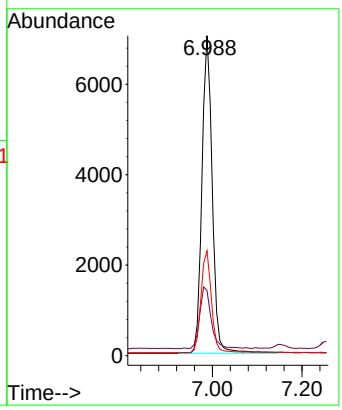


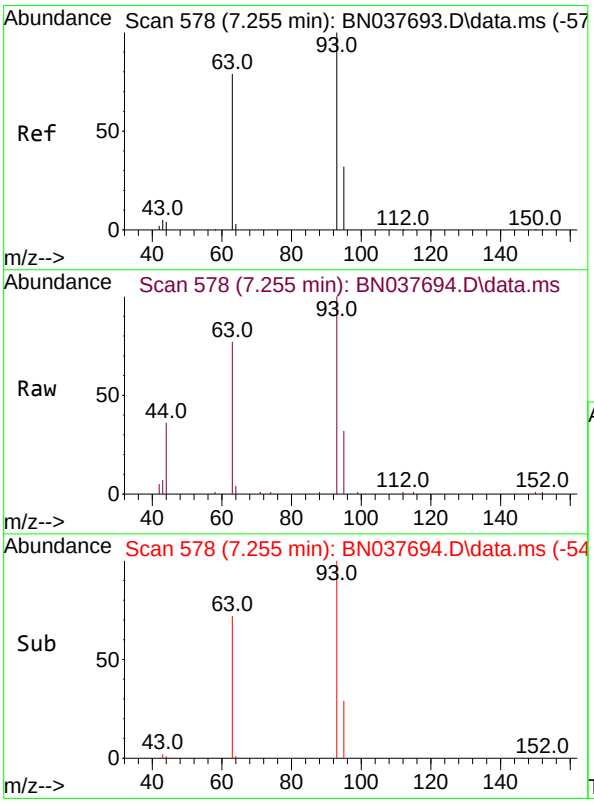
#5
Phenol-d6
Concen: 0.731 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 11241

Ion	Ratio	Lower	Upper
99	100		
42	21.6	16.6	24.8
71	32.6	26.7	40.1

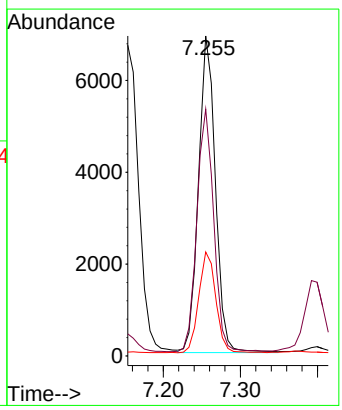


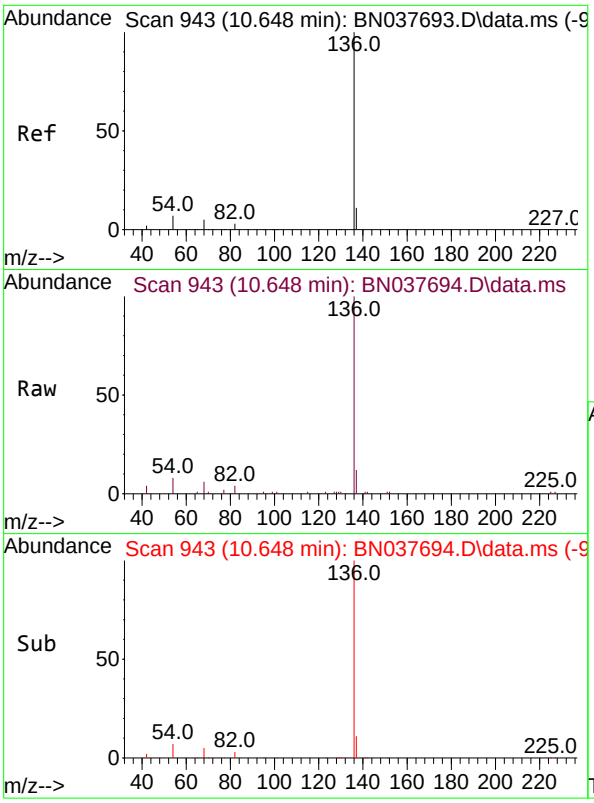


#6
bis(2-Chloroethyl)ether
Concen: 0.766 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion: 93 Resp: 10526

Ion	Ratio	Lower	Upper
93	100		
63	76.1	60.6	90.8
95	32.1	26.0	39.0



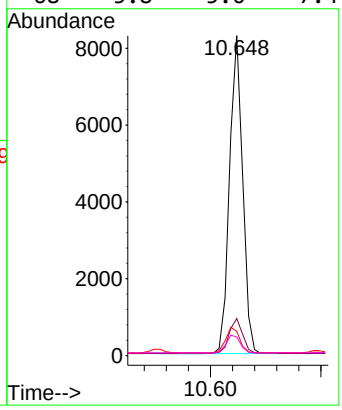


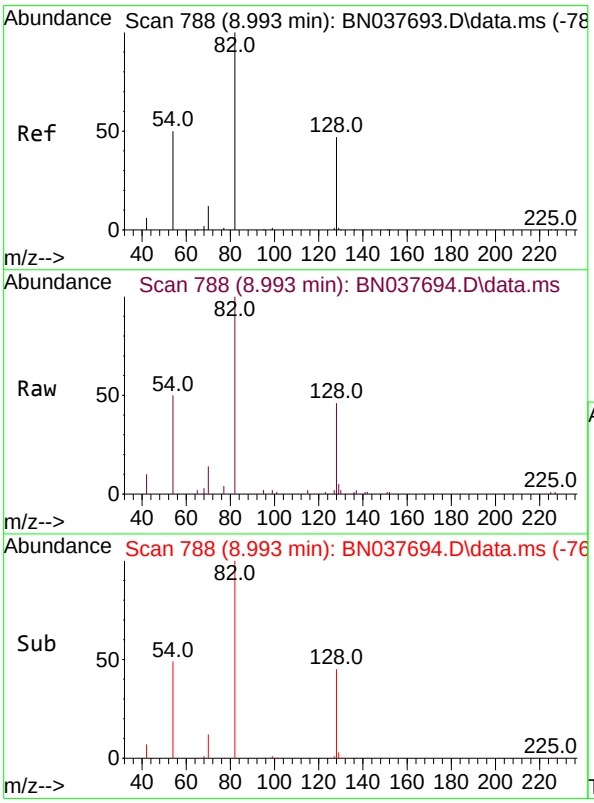
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 13664

Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	7.6	6.3	9.5
68	5.8	5.0	7.4

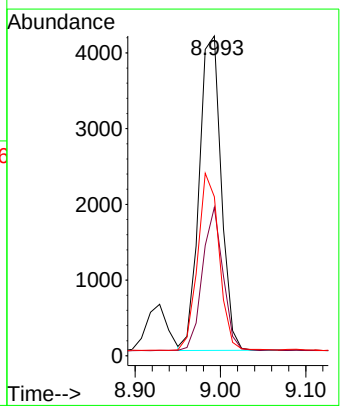


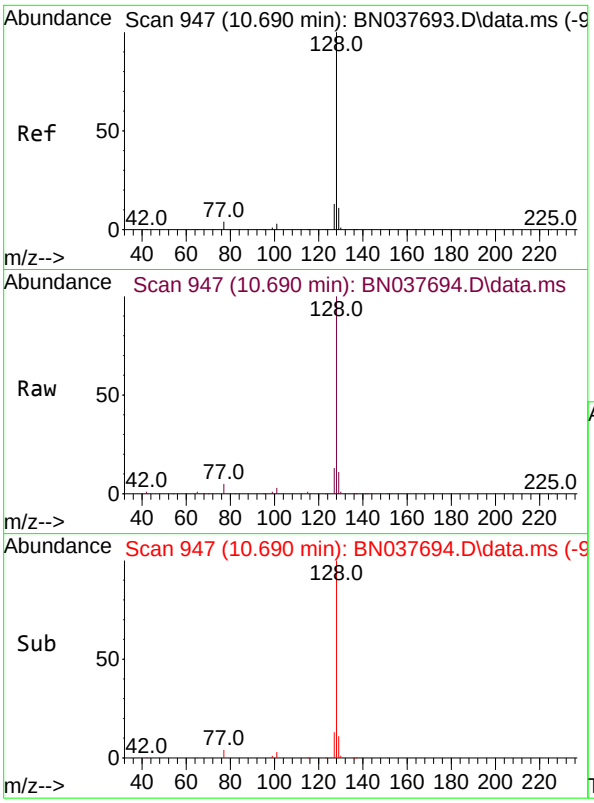


#8
Nitrobenzene-d5
Concen: 0.744 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion: 82 Resp: 7438

Ion	Ratio	Lower	Upper
82	100		
128	46.4	38.3	57.5
54	49.7	41.4	62.2



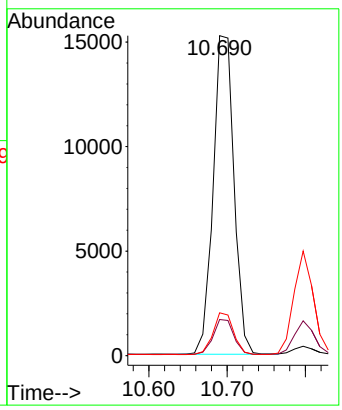


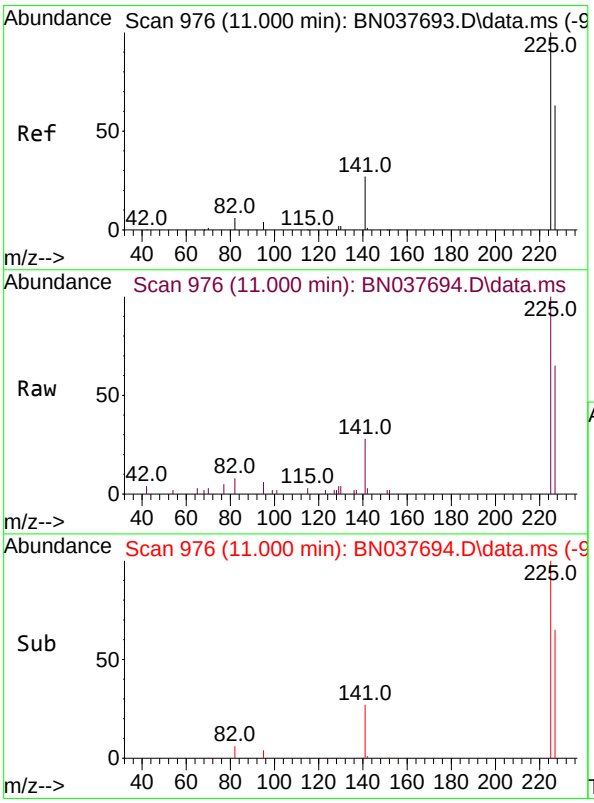
#9
Naphthalene
Concen: 0.758 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 28311

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.1	13.7
127	13.4	10.9	16.3

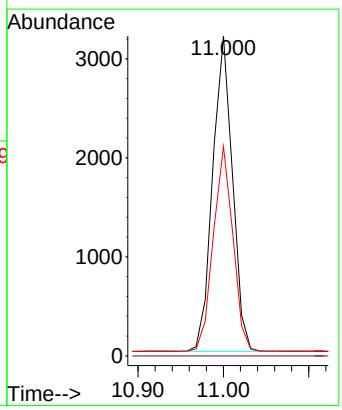


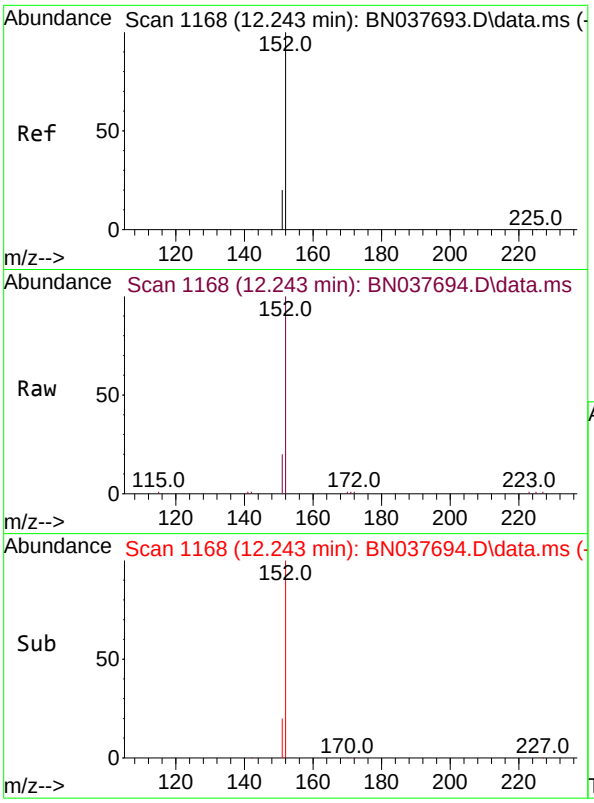


#10
Hexachlorobutadiene
Concen: 0.764 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:225 Resp: 5165

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	50.9	76.3



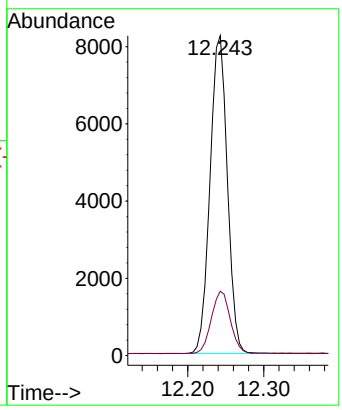


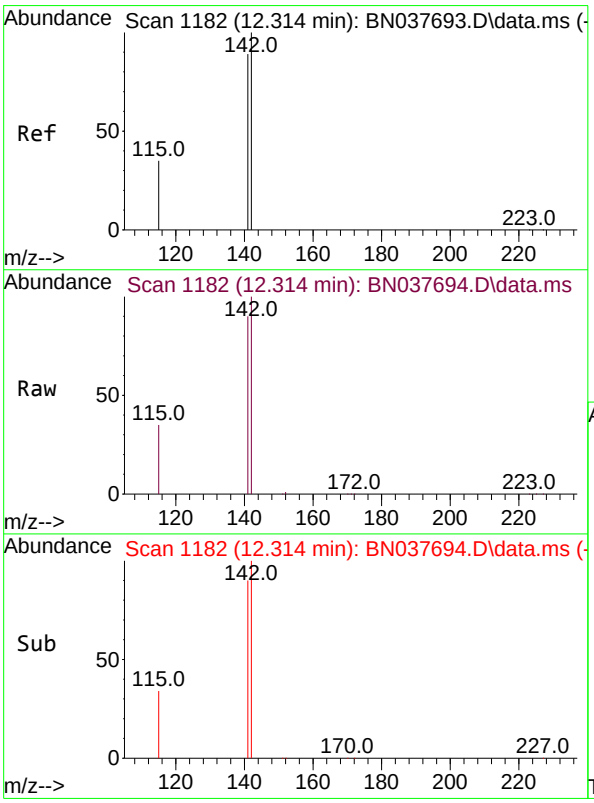
#11
2-Methylnaphthalene-d10
Concen: 0.721 ng
RT: 12.243 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 13053

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.0	25.6

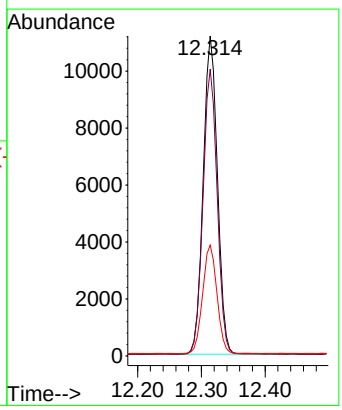


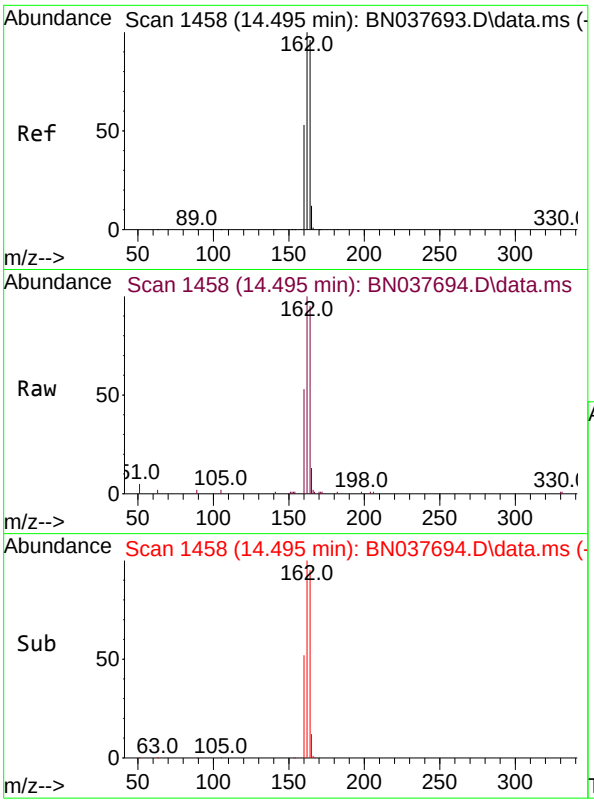


#12
2-Methylnaphthalene
Concen: 0.749 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:142 Resp: 17311

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.6	107.4
115	34.6	28.6	43.0



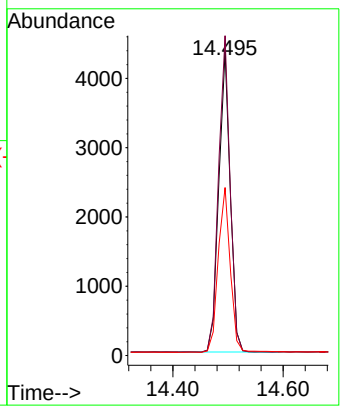


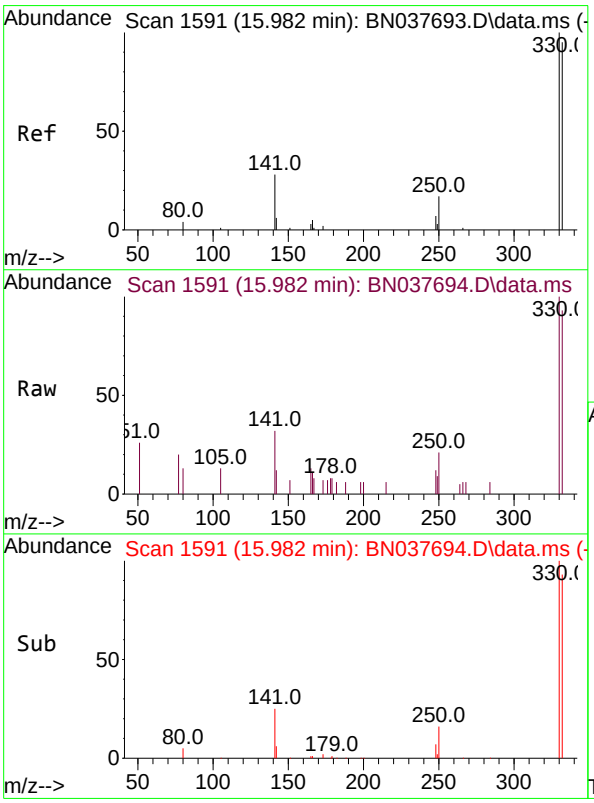
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 6297

Ion	Ratio	Lower	Upper
164	100		
162	105.3	83.1	124.7
160	55.3	44.3	66.5

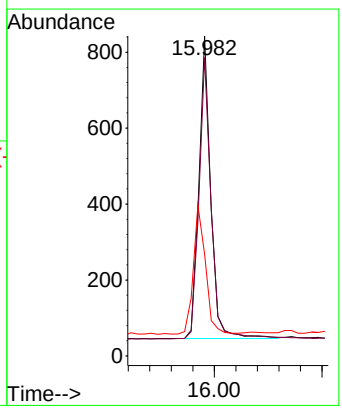


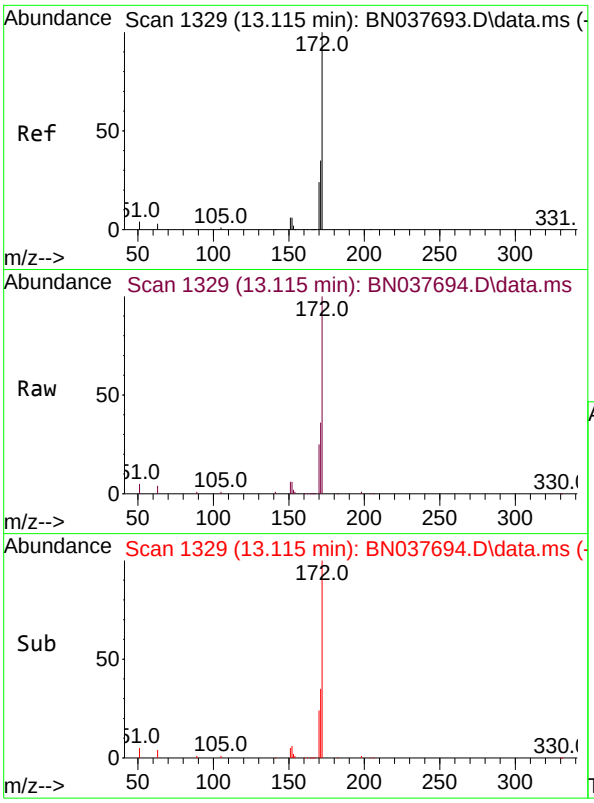


#14
2,4,6-Tribromophenol
Concen: 0.737 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:330 Resp: 1211

Ion	Ratio	Lower	Upper
330	100		
332	95.7	75.3	112.9
141	43.4	35.0	52.4



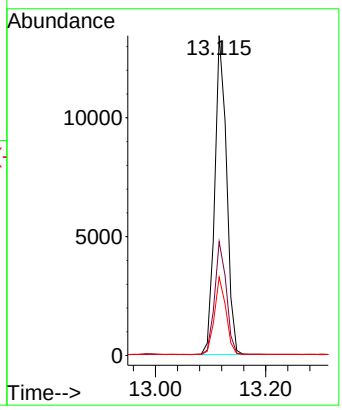


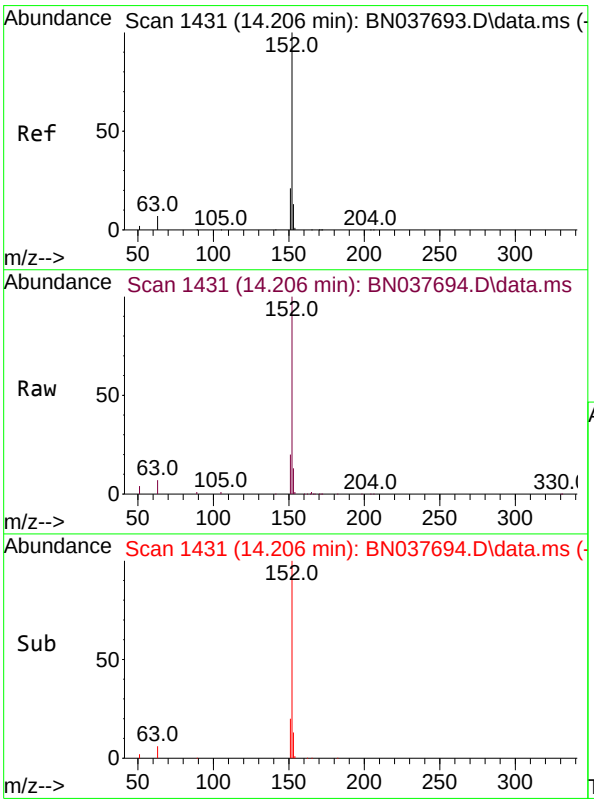
#15
2-Fluorobiphenyl
Concen: 0.758 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 19971

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	24.5	19.8	29.8

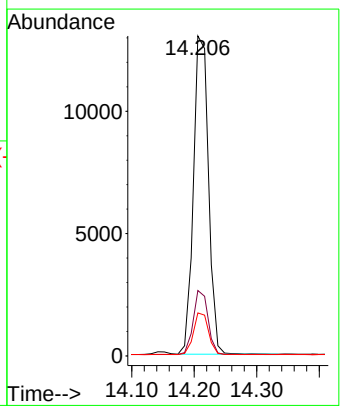


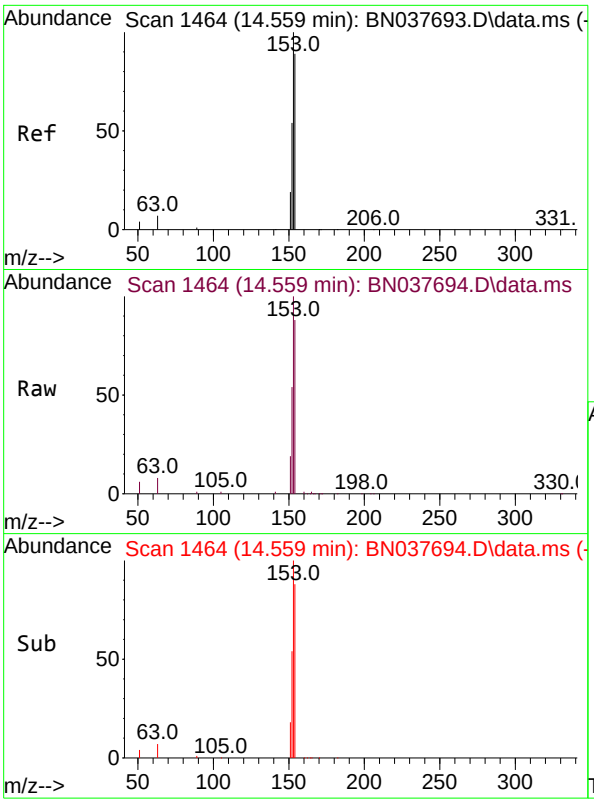


#16
Acenaphthylene
Concen: 0.753 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:152 Resp: 21746

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.1	10.4	15.6



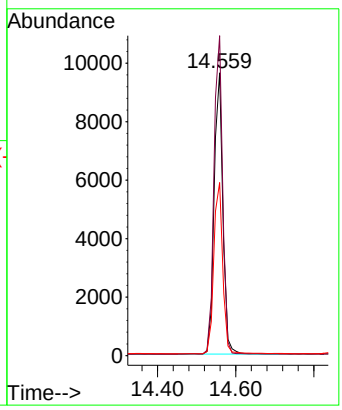


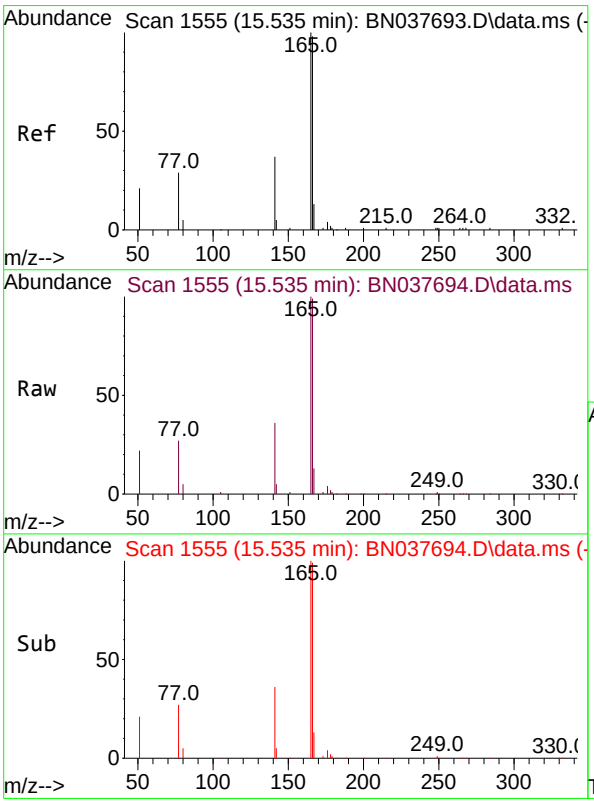
#17
Acenaphthene
Concen: 0.765 ng
RT: 14.559 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 14943

Ion	Ratio	Lower	Upper
154	100		
153	112.2	89.8	134.8
152	62.5	50.2	75.2

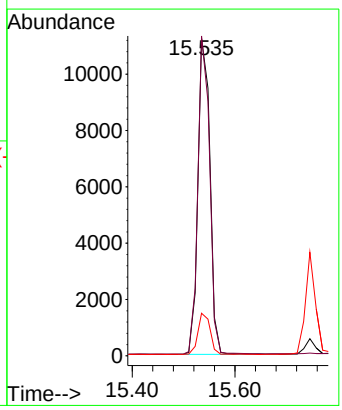


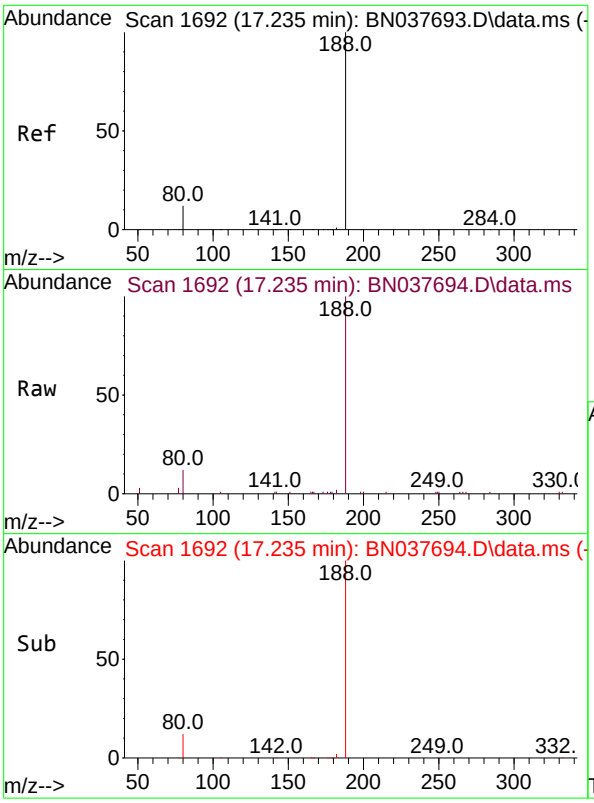


#18
Fluorene
Concen: 0.756 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:166 Resp: 17870

Ion	Ratio	Lower	Upper
166	100		
165	96.2	79.6	119.4
167	13.0	10.6	16.0



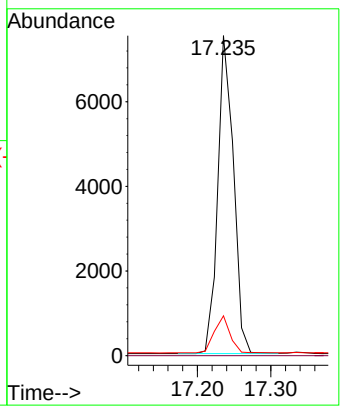


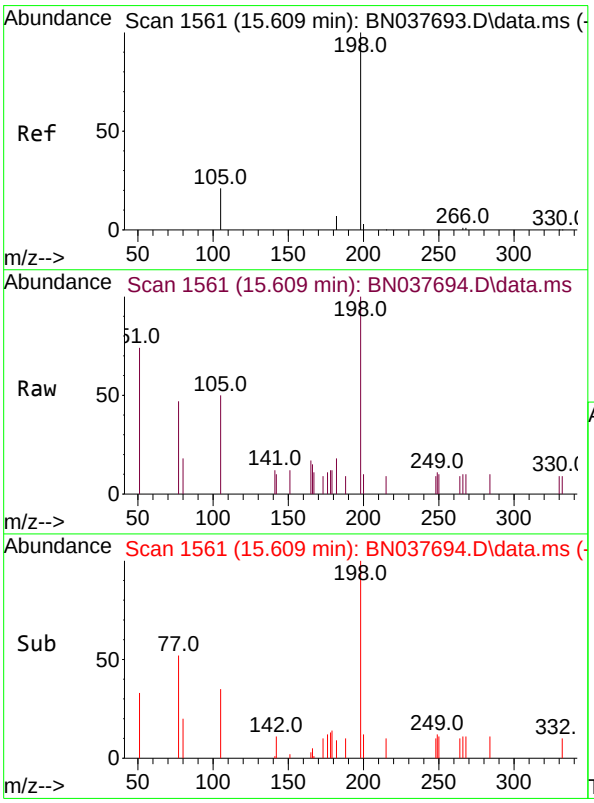
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 11247

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.4	10.6	15.8

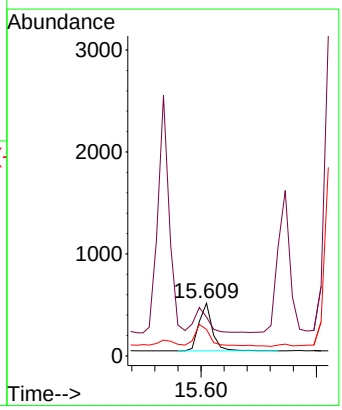


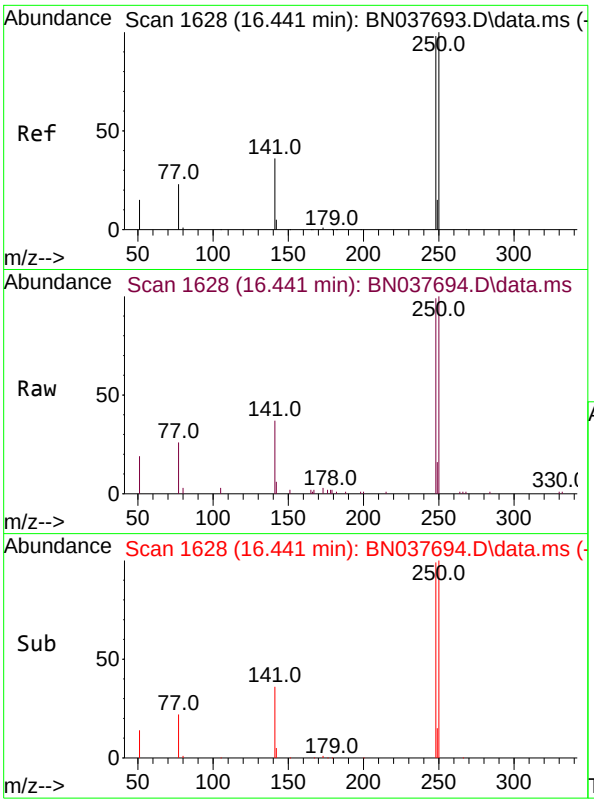


#20
4,6-Dinitro-2-methylphenol
Concen: 0.721 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:198 Resp: 751

Ion	Ratio	Lower	Upper
198	100		
51	73.7	95.1	142.7#
105	50.3	53.8	80.6#



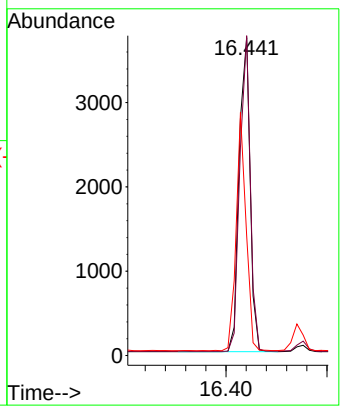


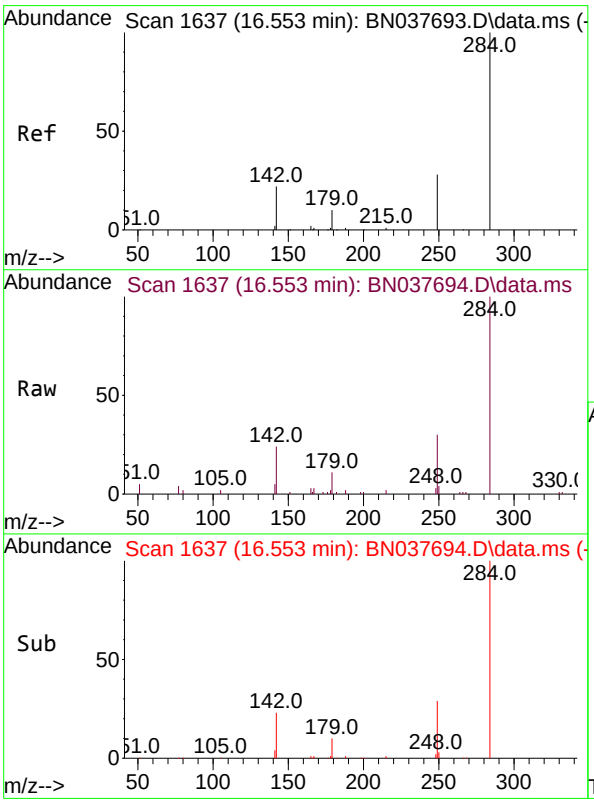
#21
4-Bromophenyl-phenylether
Concen: 0.760 ng
RT: 16.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 5576

Ion	Ratio	Lower	Upper
248	100		
250	100.6	81.5	122.3
141	37.7	30.8	46.2

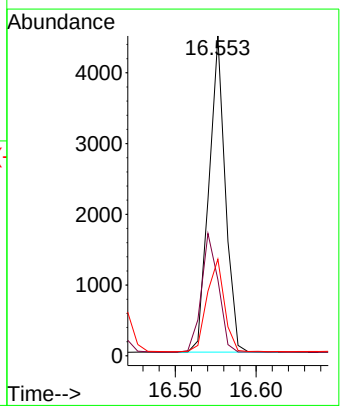


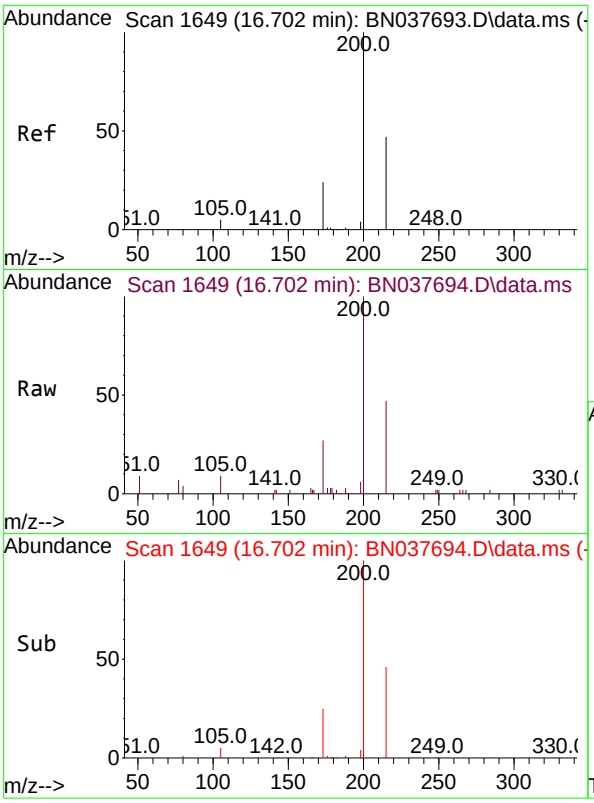


#22
Hexachlorobenzene
Concen: 0.747 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:284 Resp: 6299

Ion	Ratio	Lower	Upper
284	100		
142	39.1	30.9	46.3
249	31.2	24.8	37.2



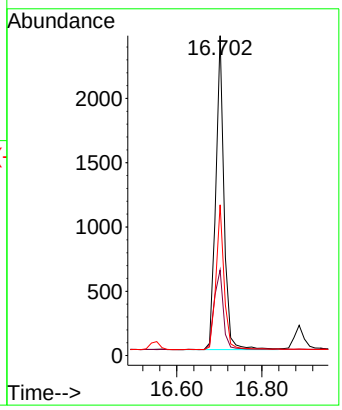


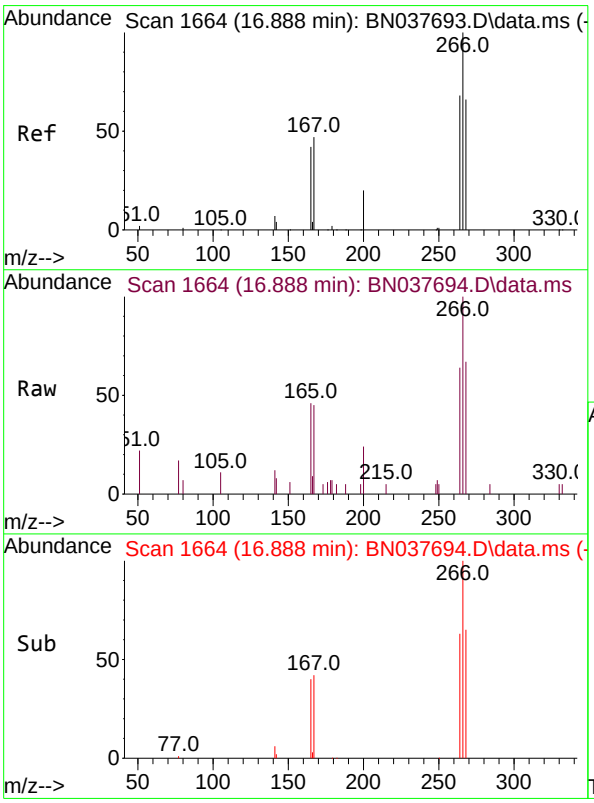
#23
Atrazine
Concen: 0.705 ng
RT: 16.702 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 3288

Ion	Ratio	Lower	Upper
200	100		
173	26.8	21.4	32.2
215	47.1	39.2	58.8

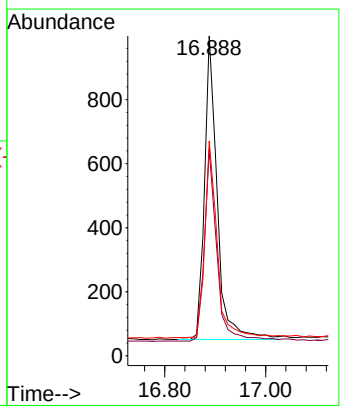


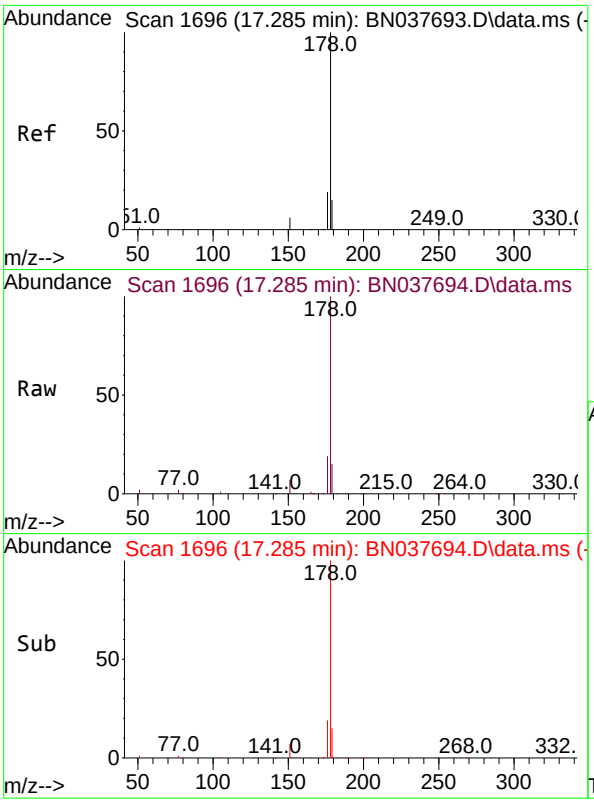


#24
Pentachlorophenol
Concen: 0.674 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:266 Resp: 1652

Ion	Ratio	Lower	Upper
266	100		
264	61.9	51.6	77.4
268	64.7	53.2	79.8



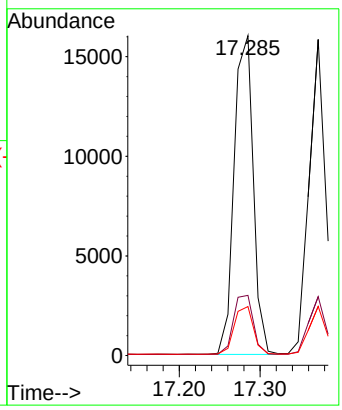


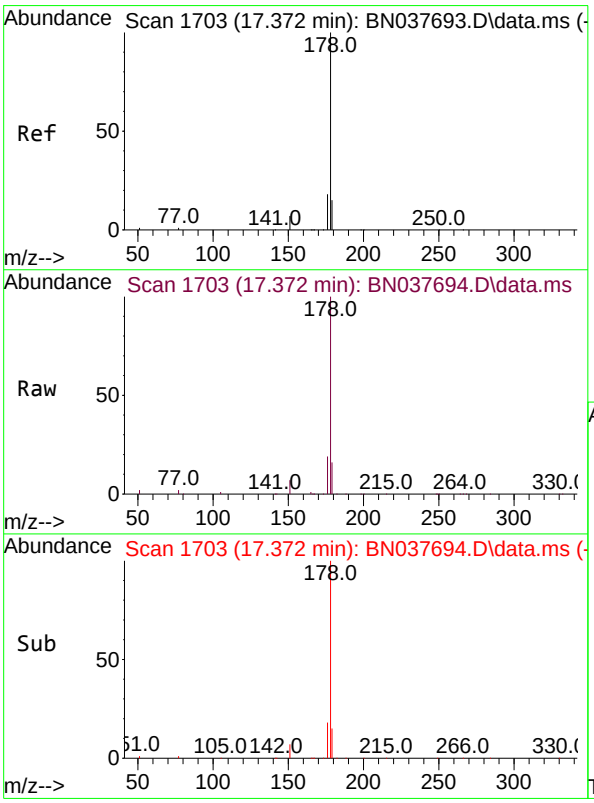
#25
Phenanthrene
Concen: 0.745 ng
RT: 17.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 26380

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.1	12.2	18.2

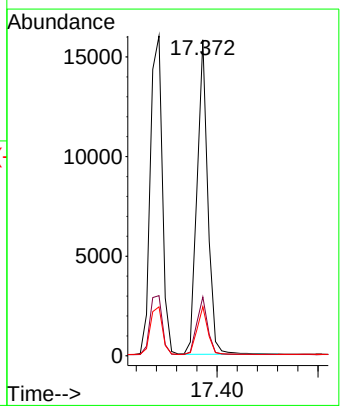


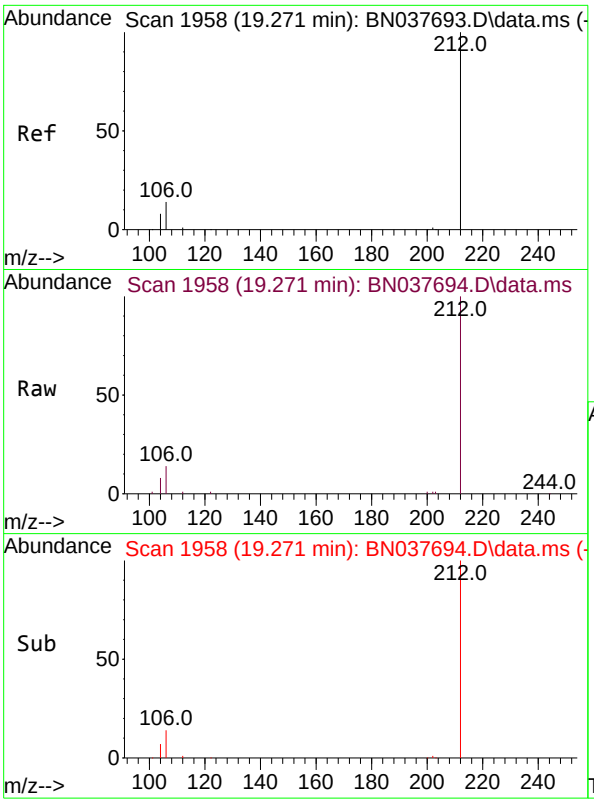


#26
Anthracene
Concen: 0.739 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:178 Resp: 23177

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	22.0
179	15.2	12.2	18.4



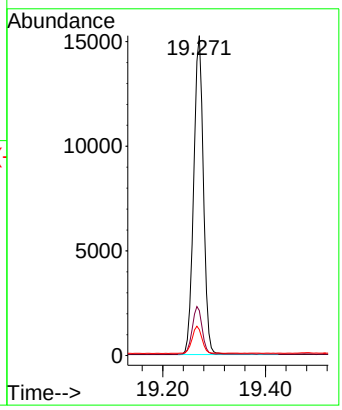


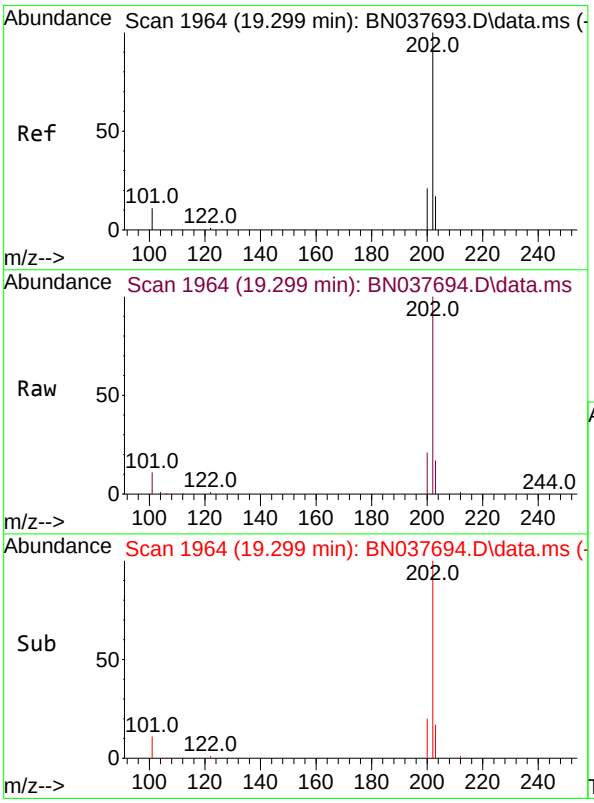
#27
Fluoranthene-d10
Concen: 0.704 ng
RT: 19.271 min Scan# 19
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 19870

Ion	Ratio	Lower	Upper
212	100		
106	15.2	12.2	18.2
104	8.8	6.9	10.3

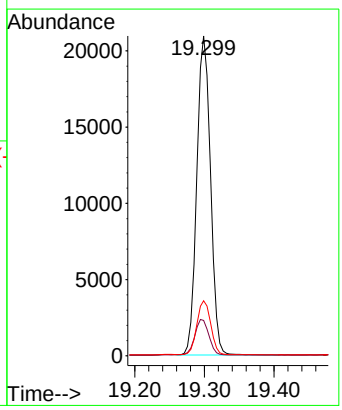


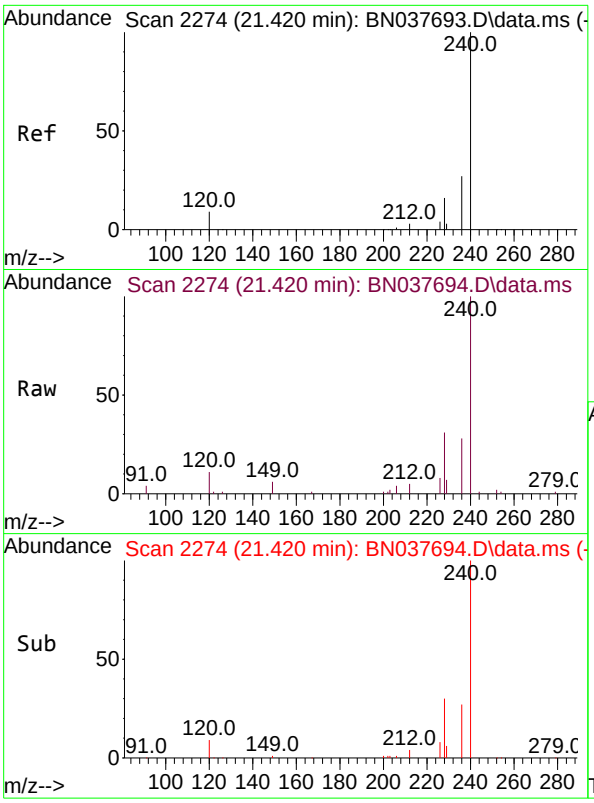


#28
Fluoranthene
Concen: 0.735 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:202 Resp: 28541

Ion	Ratio	Lower	Upper
202	100		
101	11.5	9.3	13.9
203	17.1	13.7	20.5



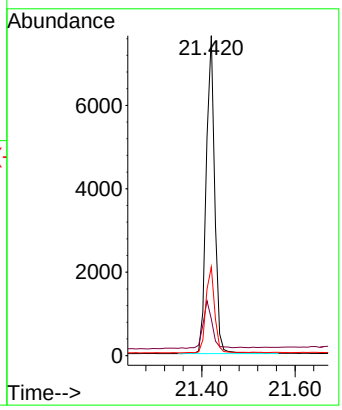


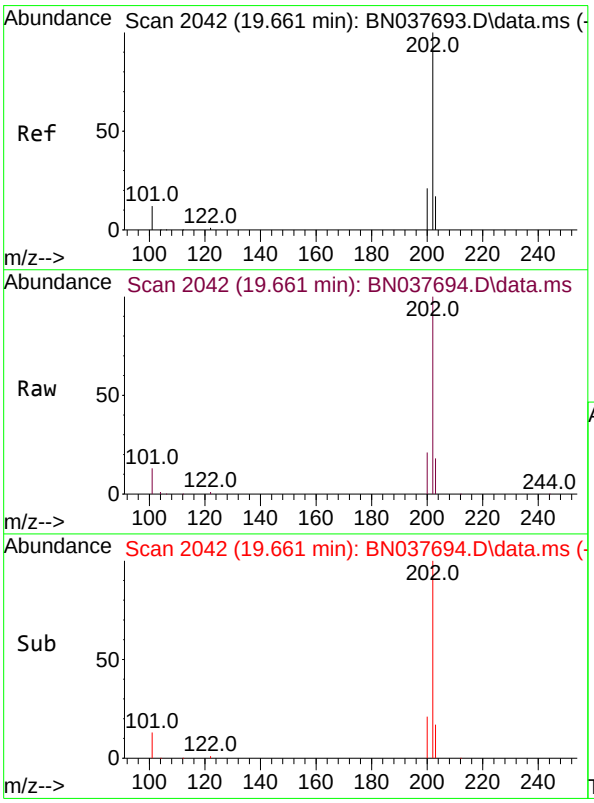
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 9536

Ion	Ratio	Lower	Upper
240	100		
120	11.4	9.2	13.8
236	27.7	22.6	33.8

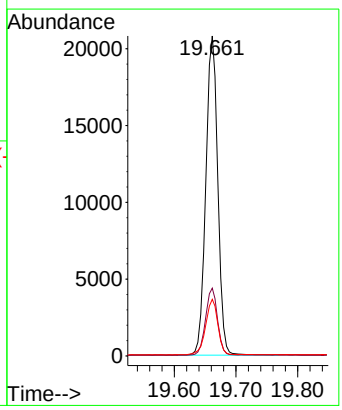


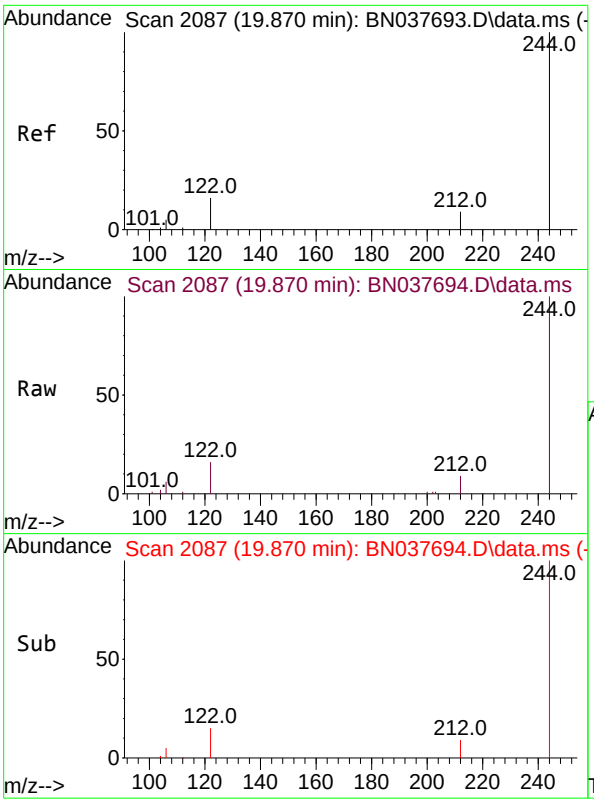


#30
Pyrene
Concen: 0.752 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:202 Resp: 28089

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.8	14.3	21.5



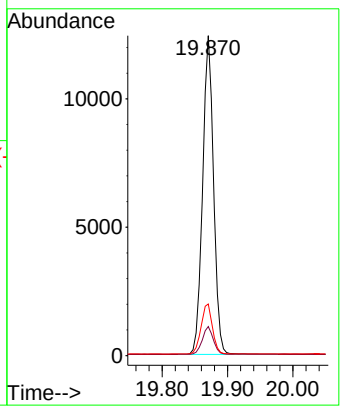


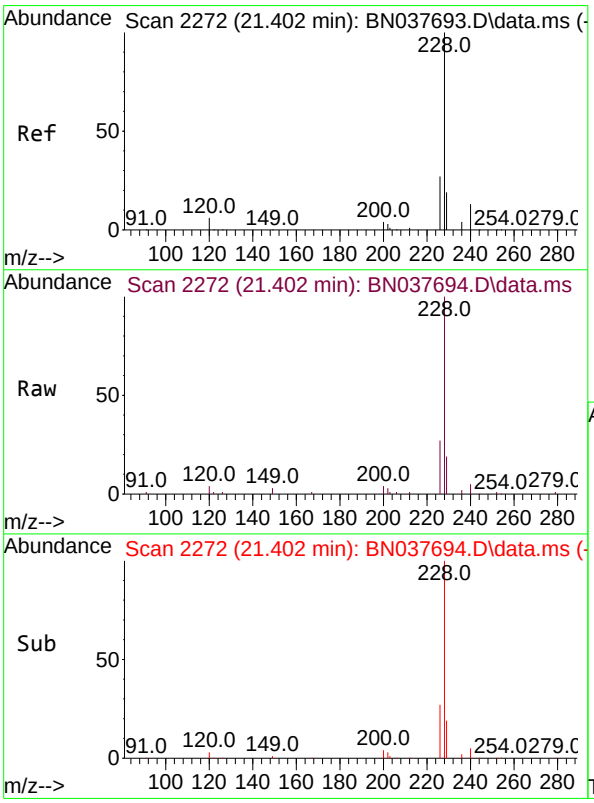
#31
Terphenyl-d14
Concen: 0.743 ng
RT: 19.870 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 14384

Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.5	11.3
122	16.1	13.2	19.8

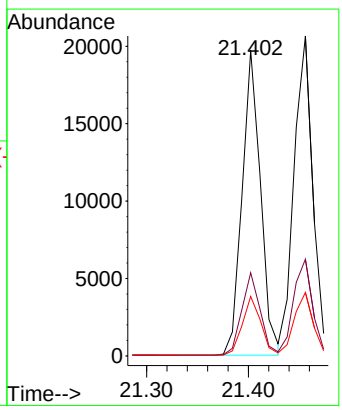


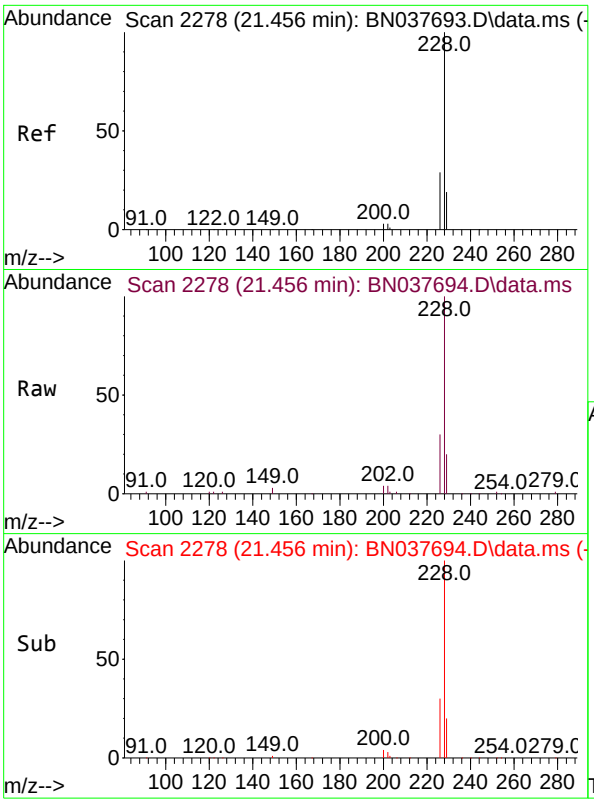


#32
Benzo(a)anthracene
Concen: 0.744 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:228 Resp: 24740

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.2	33.2
229	19.5	15.8	23.6



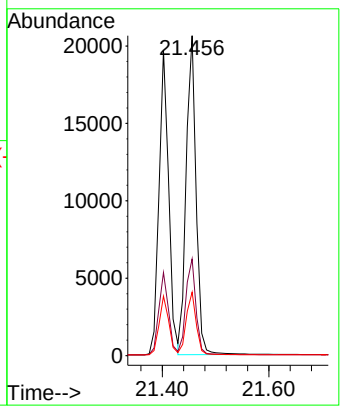


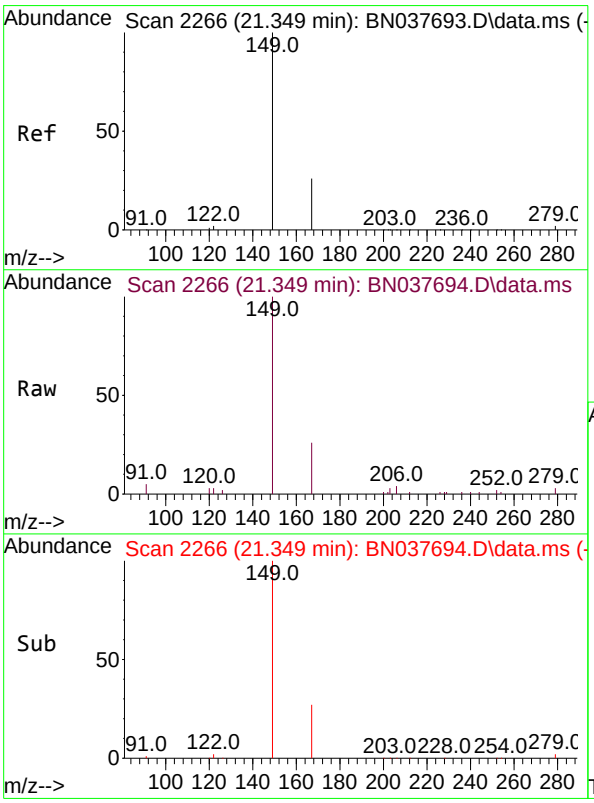
#33
Chrysene
Concen: 0.750 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 26737

Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.5	35.3
229	19.8	15.9	23.9

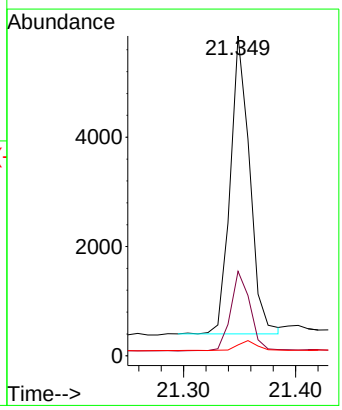


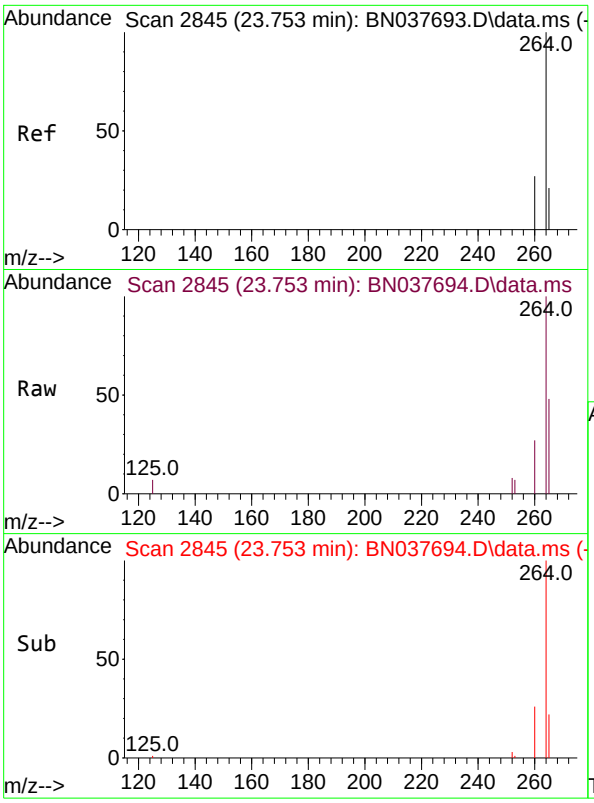


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.667 ng
RT: 21.349 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:149 Resp: 6579

Ion	Ratio	Lower	Upper
149	100		
167	27.1	20.8	31.2
279	3.3	3.3	4.9



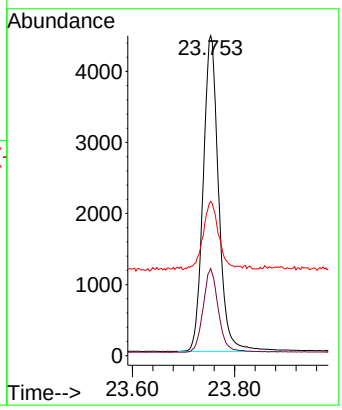


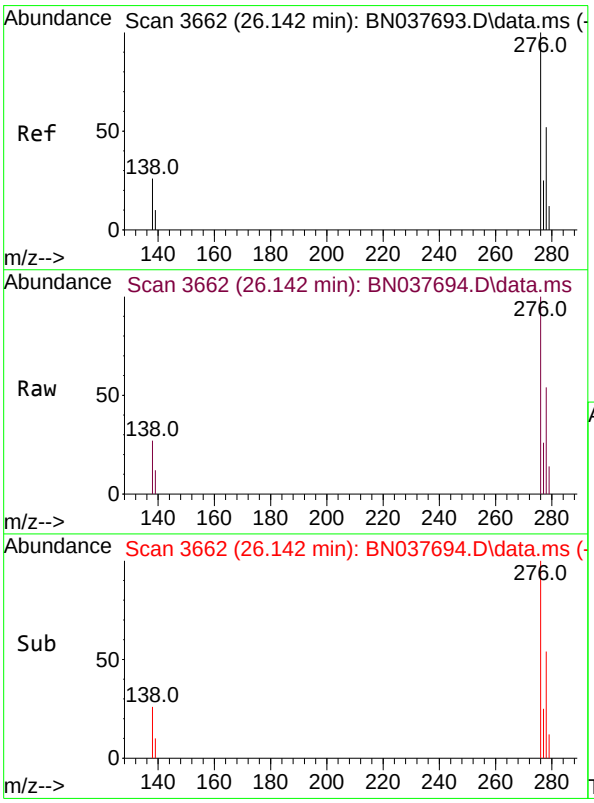
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 9336

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.8	32.8
265	48.2	39.4	59.2

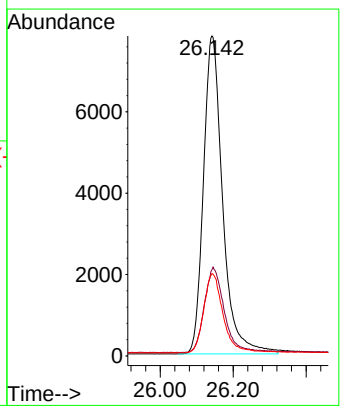


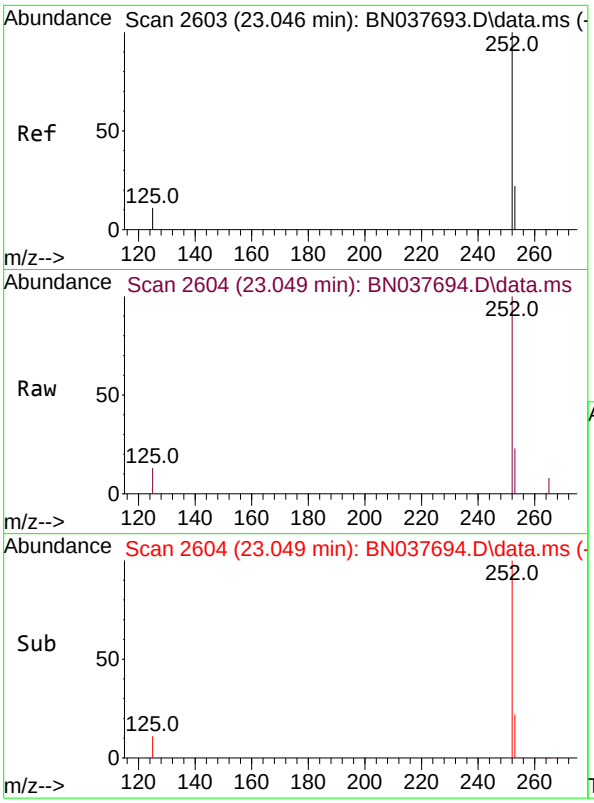


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.729 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:276 Resp: 28614

Ion	Ratio	Lower	Upper
276	100		
138	27.5	21.9	32.9
277	25.0	20.1	30.1



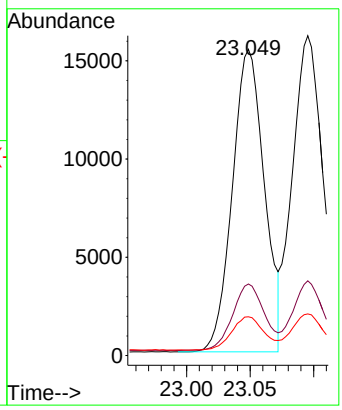


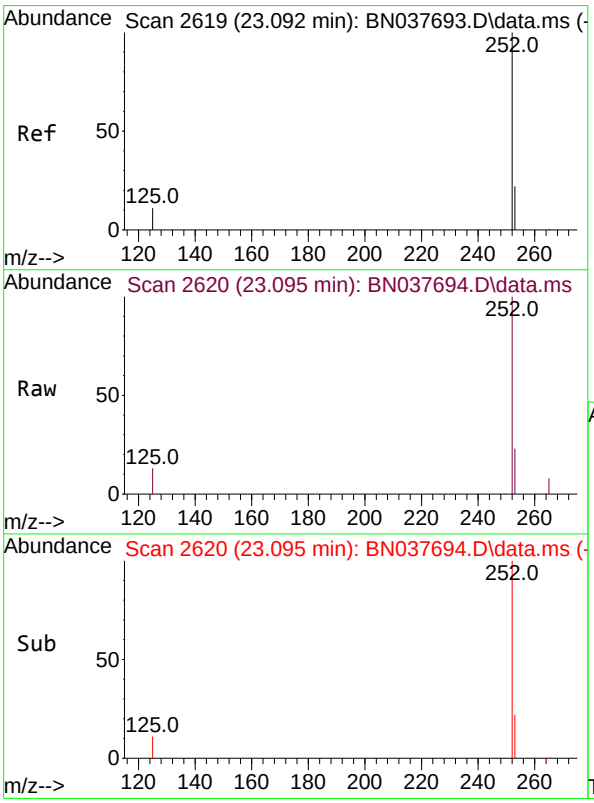
#37
Benzo(b)fluoranthene
Concen: 0.733 ng
RT: 23.049 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 26965

Ion	Ratio	Lower	Upper
252	100		
253	23.4	19.4	29.2
125	12.7	11.2	16.8

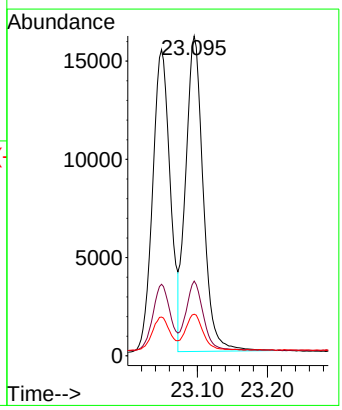


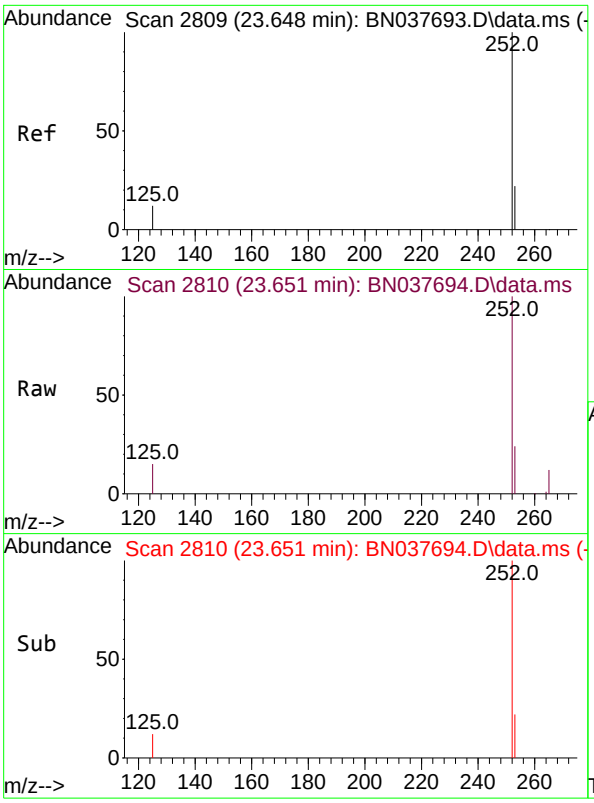


#38
Benzo(k)fluoranthene
Concen: 0.748 ng
RT: 23.095 min Scan# 2620
Delta R.T. 0.003 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:252 Resp: 28034

Ion	Ratio	Lower	Upper
252	100		
253	23.4	19.4	29.0
125	13.0	11.6	17.4



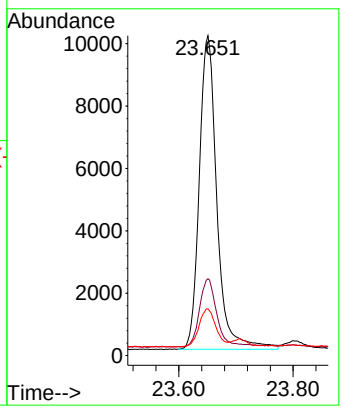


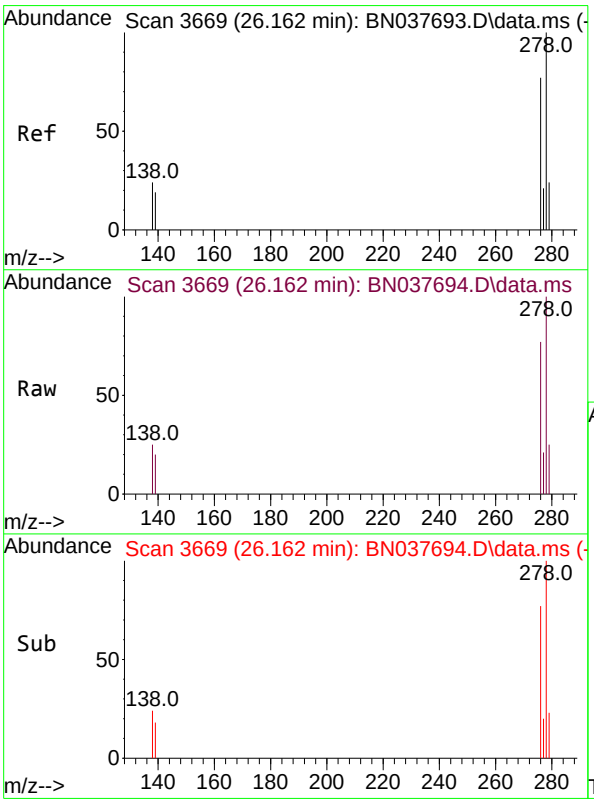
#39
Benzo(a)pyrene
Concen: 0.730 ng
RT: 23.651 min Scan# 28
Delta R.T. 0.003 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 21496

Ion	Ratio	Lower	Upper
252	100		
253	24.0	20.8	31.2
125	14.6	13.9	20.9

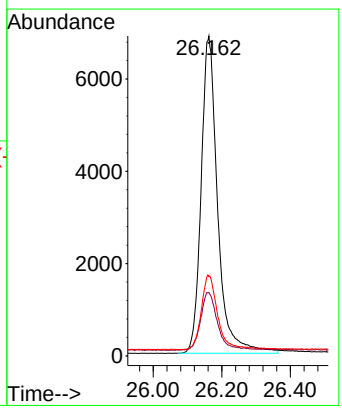


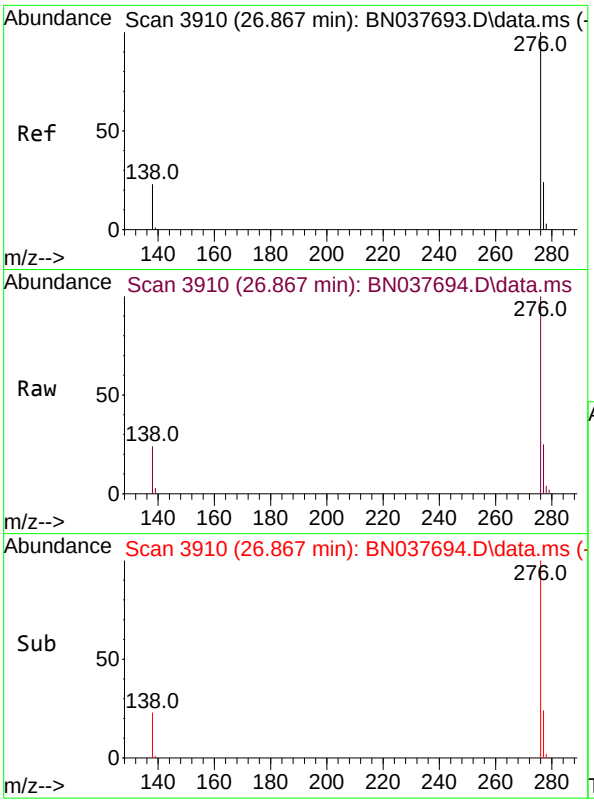


#40
Dibenzo(a,h)anthracene
Concen: 0.735 ng
RT: 26.162 min Scan# 3669
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:278 Resp: 23010

Ion	Ratio	Lower	Upper
278	100		
139	19.8	17.8	26.6
279	24.7	22.0	33.0



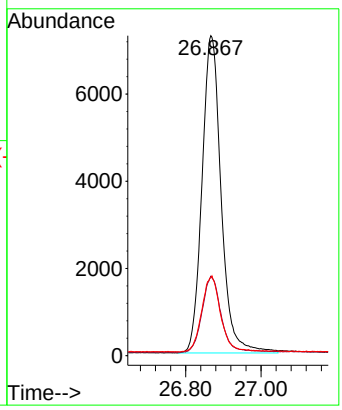


#41
Benzo(g,h,i)perylene
Concen: 0.731 ng
RT: 26.867 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 25683

Ion	Ratio	Lower	Upper
276	100		
277	24.8	20.6	31.0
138	24.3	20.2	30.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037695.D
Acq On : 11 Sep 2025 12:20
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Sep 11 14:06:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.840	152	5277	0.400	ng		0.00
7) Naphthalene-d8	10.648	136	13818	0.400	ng		0.00
13) Acenaphthene-d10	14.495	164	6567	0.400	ng		0.00
19) Phenanthrene-d10	17.236	188	11496	0.400	ng		0.00
29) Chrysene-d12	21.420	240	9743	0.400	ng		0.00
35) Perylene-d12	23.750	264	9111	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.399	112	19252	1.589	ng		0.00
5) Phenol-d6	6.988	99	25180	1.603	ng		0.00
8) Nitrobenzene-d5	8.993	82	16386	1.621	ng		0.00
11) 2-Methylnaphthalene-d10	12.243	152	28843	1.576	ng		0.00
14) 2,4,6-Tribromophenol	15.982	330	2959	1.728	ng		0.00
15) 2-Fluorobiphenyl	13.116	172	44363	1.615	ng		0.00
27) Fluoranthene-d10	19.267	212	43876	1.520	ng		0.00
31) Terphenyl-d14	19.871	244	31656	1.601	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.305	88	9125	1.660	ng		98
3) n-Nitrosodimethylamine	3.601	42	11726	1.633	ng	#	96
6) bis(2-Chloroethyl)ether	7.255	93	22759	1.622	ng		99
9) Naphthalene	10.701	128	61726	1.634	ng		99
10) Hexachlorobutadiene	11.000	225	11208	1.640	ng	#	100
12) 2-Methylnaphthalene	12.314	142	38501	1.648	ng		99
16) Acenaphthylene	14.206	152	49508	1.644	ng		100
17) Acenaphthene	14.559	154	33424	1.641	ng		99
18) Fluorene	15.535	166	40588	1.646	ng		99
20) 4,6-Dinitro-2-methylph...	15.610	198	1837	1.725	ng	#	46
21) 4-Bromophenyl-phenylether	16.441	248	12511	1.669	ng		98
22) Hexachlorobenzene	16.553	284	14034	1.628	ng		99
23) Atrazine	16.702	200	7765	1.628	ng		97
24) Pentachlorophenol	16.888	266	3932	1.571	ng		98
25) Phenanthrene	17.285	178	59082	1.632	ng		100
26) Anthracene	17.372	178	52416	1.635	ng		100
28) Fluoranthene	19.299	202	64074	1.614	ng		100
30) Pyrene	19.661	202	62457	1.638	ng		100
32) Benzo(a)anthracene	21.402	228	54932	1.616	ng		99
33) Chrysene	21.447	228	58866	1.615	ng		97
34) Bis(2-ethylhexyl)phtha...	21.349	149	14814	1.470	ng	#	99
36) Indeno(1,2,3-cd)pyrene	26.139	276	65254	1.705	ng		100
37) Benzo(b)fluoranthene	23.043	252	59639	1.662	ng		95
38) Benzo(k)fluoranthene	23.090	252	62123	1.698	ng		96
39) Benzo(a)pyrene	23.645	252	47897	1.667	ng	#	92
40) Dibenzo(a,h)anthracene	26.159	278	53306	1.744	ng		93
41) Benzo(g,h,i)perylene	26.858	276	57151	1.666	ng		97

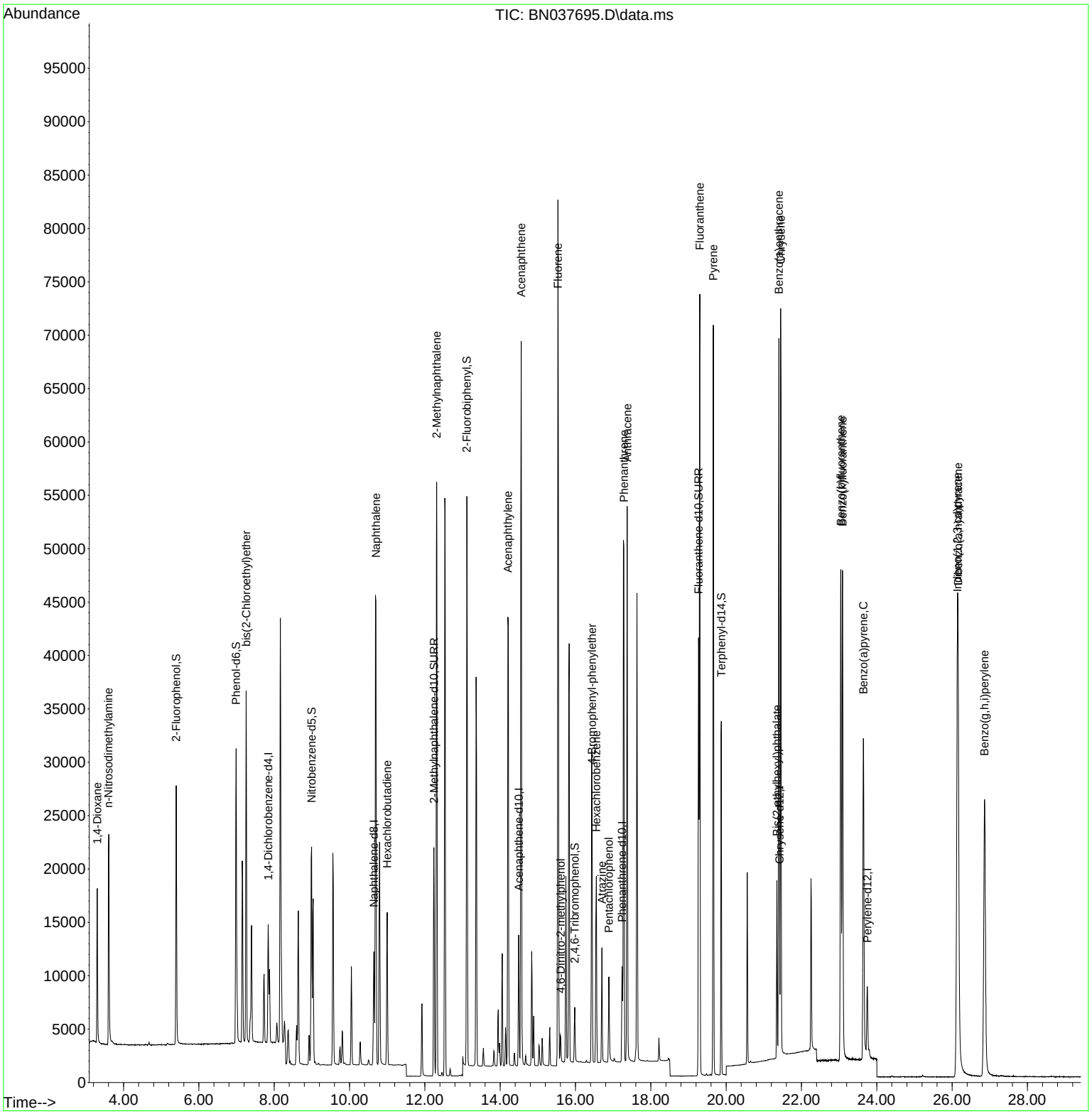
(#) = qualifier out of range (m) = manual integration (+) = signals summed

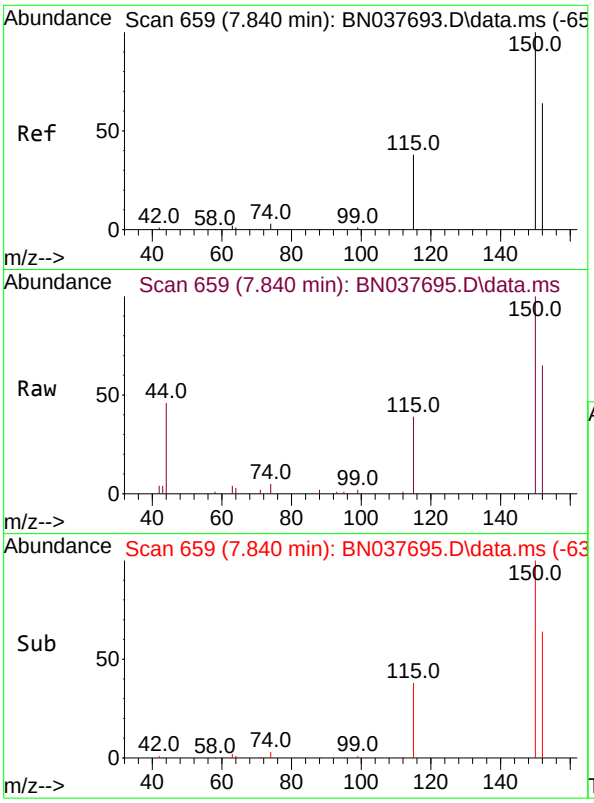
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037695.D
Acq On : 11 Sep 2025 12:20
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Sep 11 14:06:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



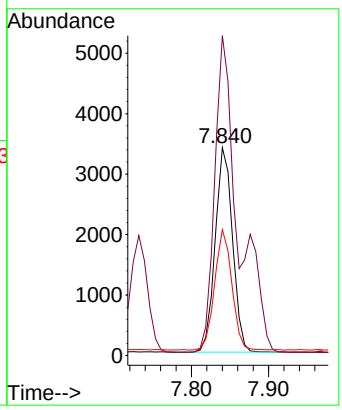


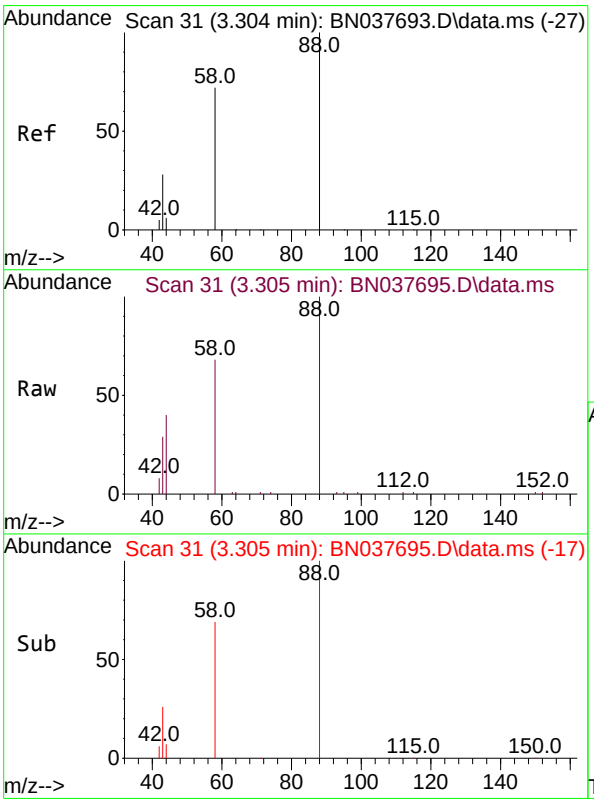
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 5277

Ion	Ratio	Lower	Upper
152	100		
150	153.9	124.5	186.7
115	60.6	49.2	73.8

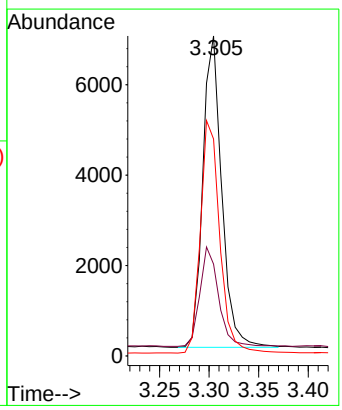


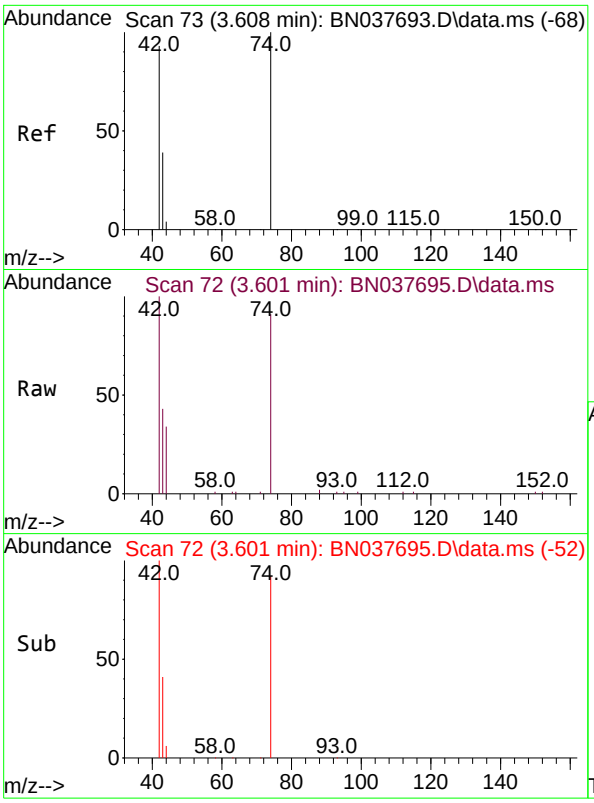


#2
1,4-Dioxane
Concen: 1.660 ng
RT: 3.305 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion: 88 Resp: 9125

Ion	Ratio	Lower	Upper
88	100		
43	31.6	26.8	40.2
58	76.5	61.9	92.9



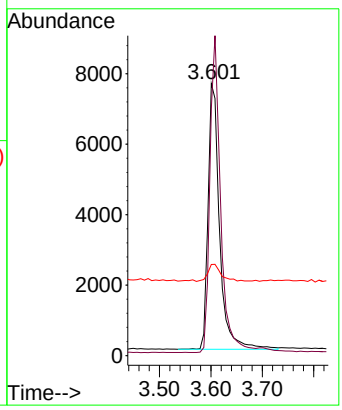


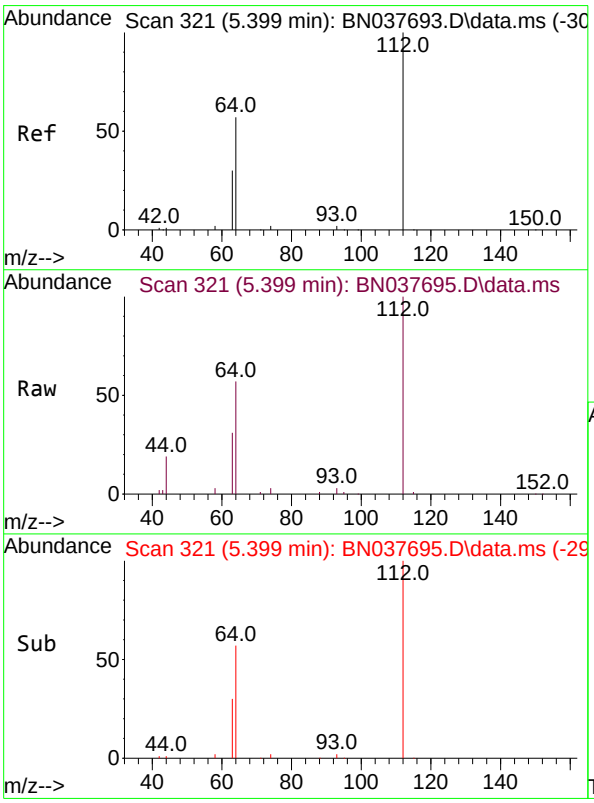
#3
n-Nitrosodimethylamine
Concen: 1.633 ng
RT: 3.601 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 11726

Ion	Ratio	Lower	Upper
42	100		
74	111.0	86.0	129.0
44	7.4	8.4	12.6#

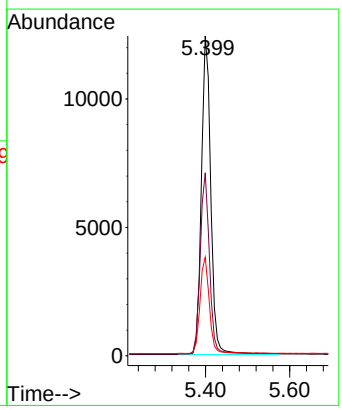


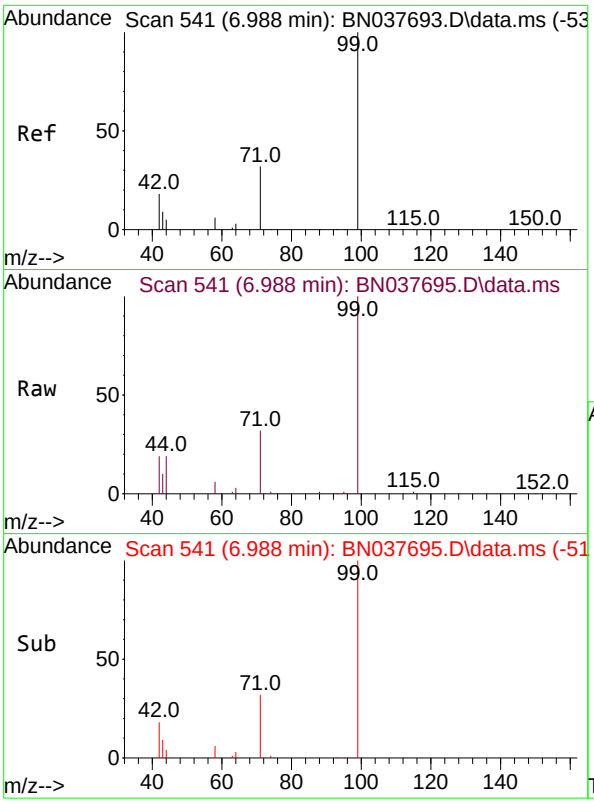


#4
2-Fluorophenol
Concen: 1.589 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:112 Resp: 19252

Ion	Ratio	Lower	Upper
112	100		
64	56.0	44.9	67.3
63	29.9	24.7	37.1



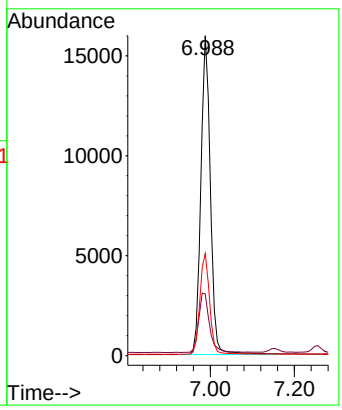


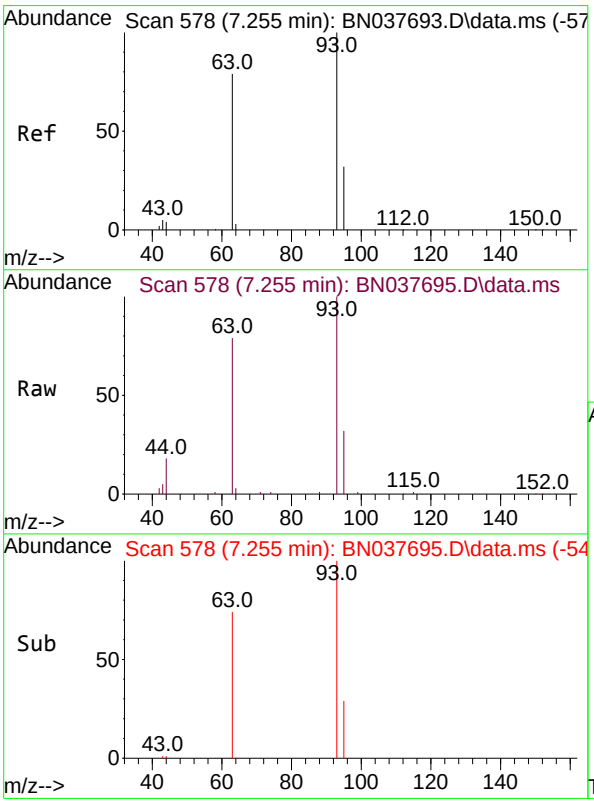
#5
Phenol-d6
Concen: 1.603 ng
RT: 6.988 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 25180

Ion	Ratio	Lower	Upper
99	100		
42	20.9	16.6	24.8
71	32.5	26.7	40.1

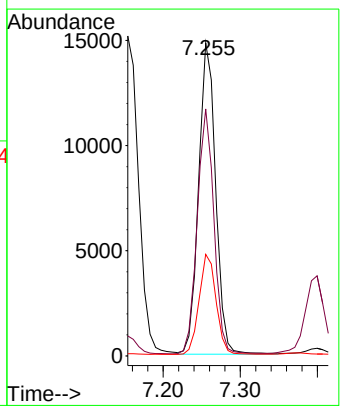


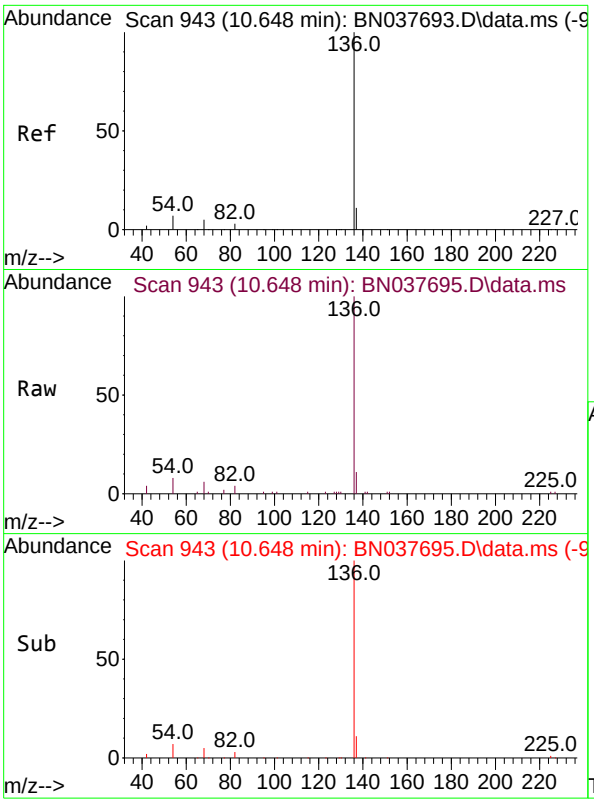


#6
bis(2-Chloroethyl)ether
Concen: 1.622 ng
RT: 7.255 min Scan# 578
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion: 93 Resp: 22759

Ion	Ratio	Lower	Upper
93	100		
63	76.7	60.6	90.8
95	32.0	26.0	39.0



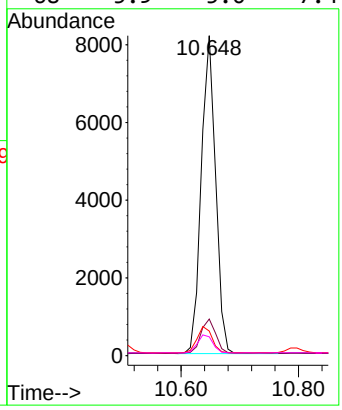


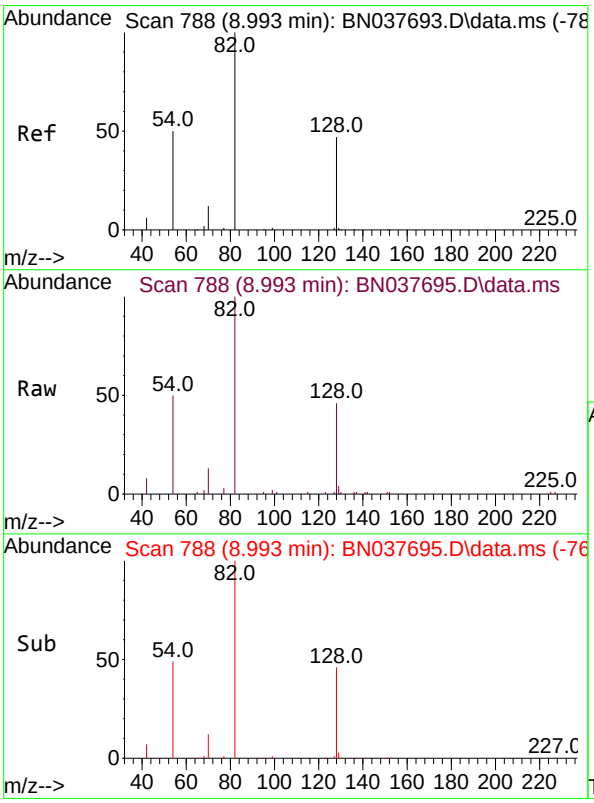
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 13818

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.7	6.3	9.5
68	5.9	5.0	7.4

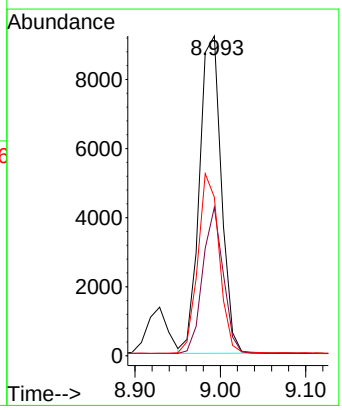


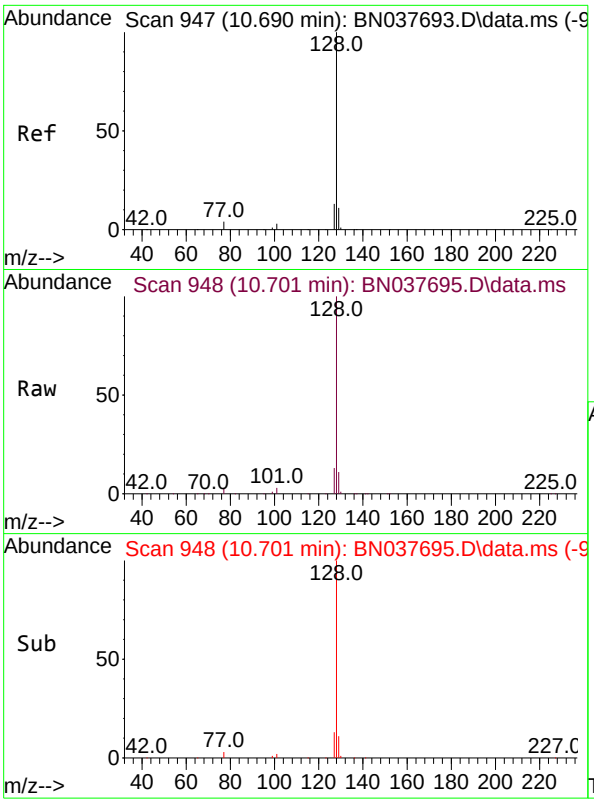


#8
Nitrobenzene-d5
Concen: 1.621 ng
RT: 8.993 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion: 82 Resp: 16386

Ion	Ratio	Lower	Upper
82	100		
128	46.4	38.3	57.5
54	49.6	41.4	62.2



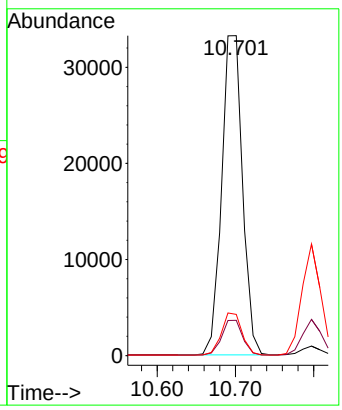


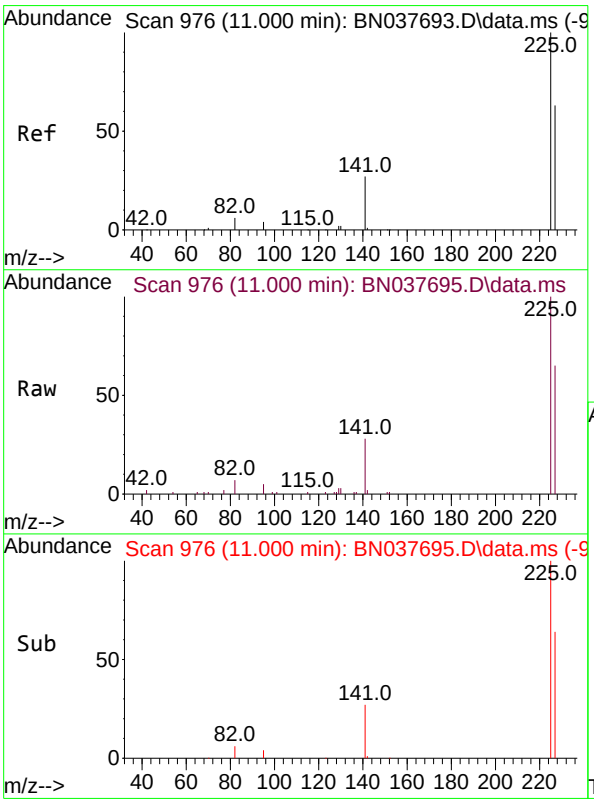
#9
Naphthalene
Concen: 1.634 ng
RT: 10.701 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 61726

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.1	13.7
127	12.9	10.9	16.3

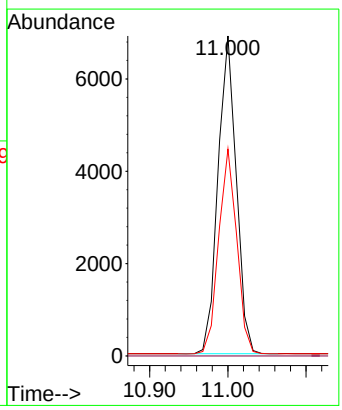


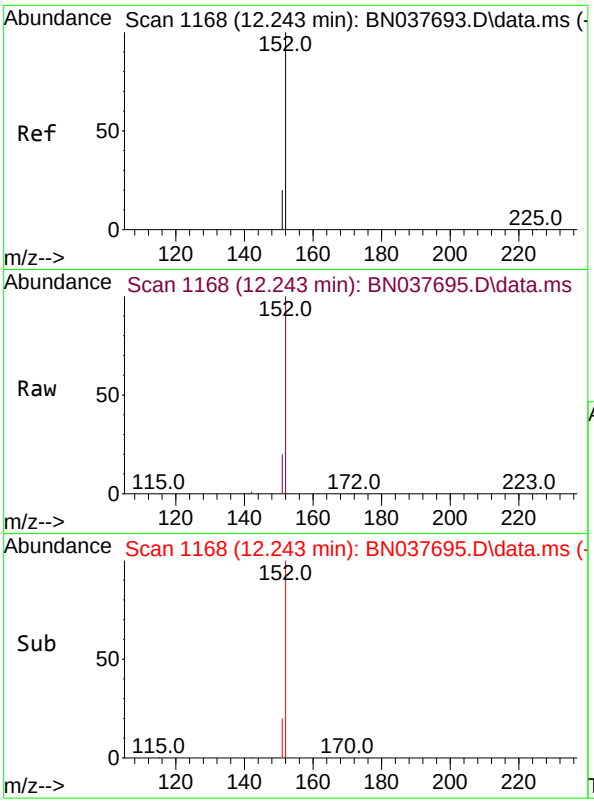


#10
Hexachlorobutadiene
Concen: 1.640 ng
RT: 11.000 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:225 Resp: 11208

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	50.9	76.3



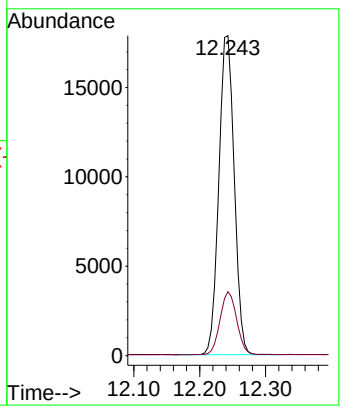


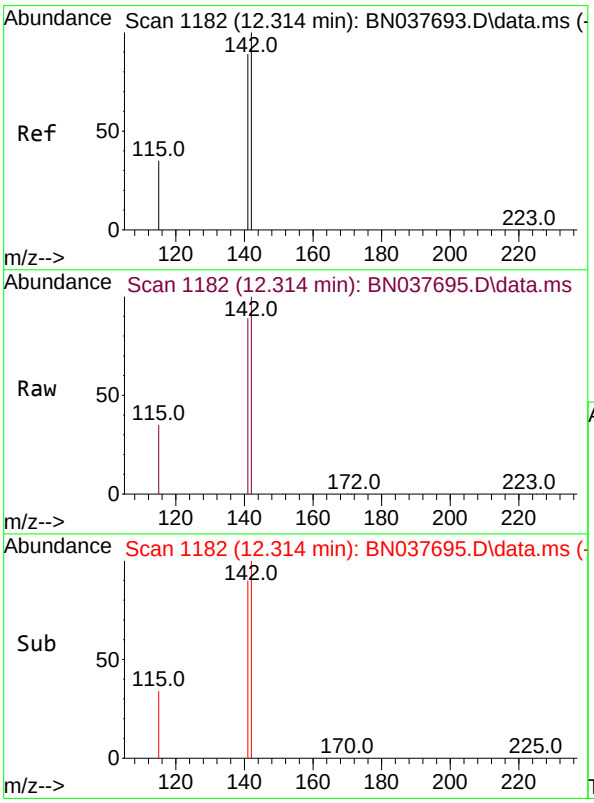
#11
2-Methylnaphthalene-d10
Concen: 1.576 ng
RT: 12.243 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 28843

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

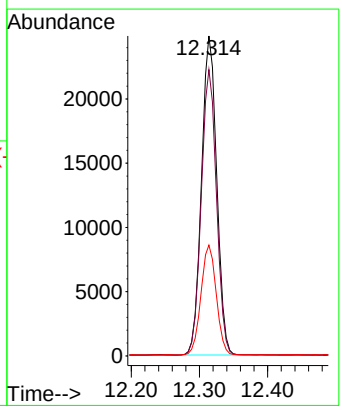


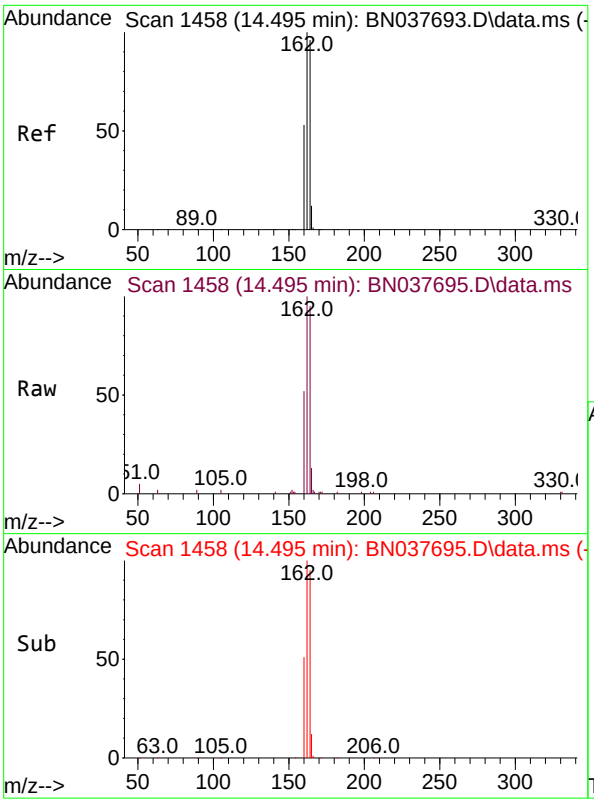


#12
2-Methylnaphthalene
Concen: 1.648 ng
RT: 12.314 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:142 Resp: 38501

Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.6	107.4
115	34.6	28.6	43.0



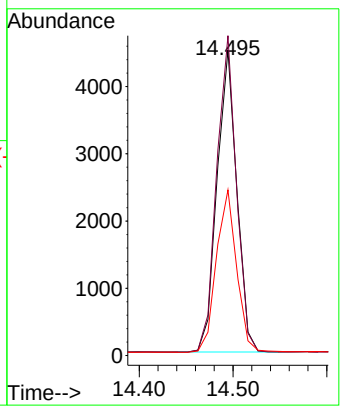


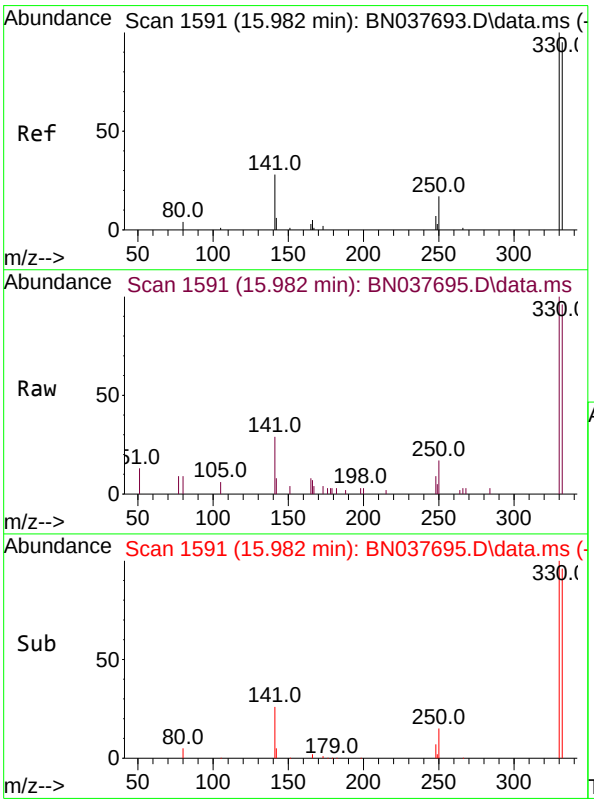
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 6567

Ion	Ratio	Lower	Upper
164	100		
162	104.8	83.1	124.7
160	54.2	44.3	66.5

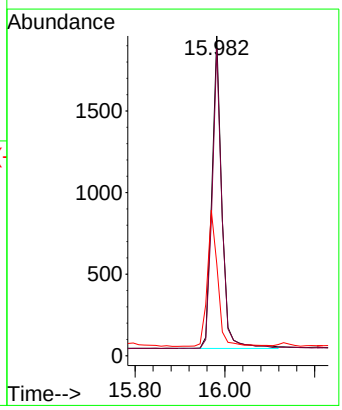


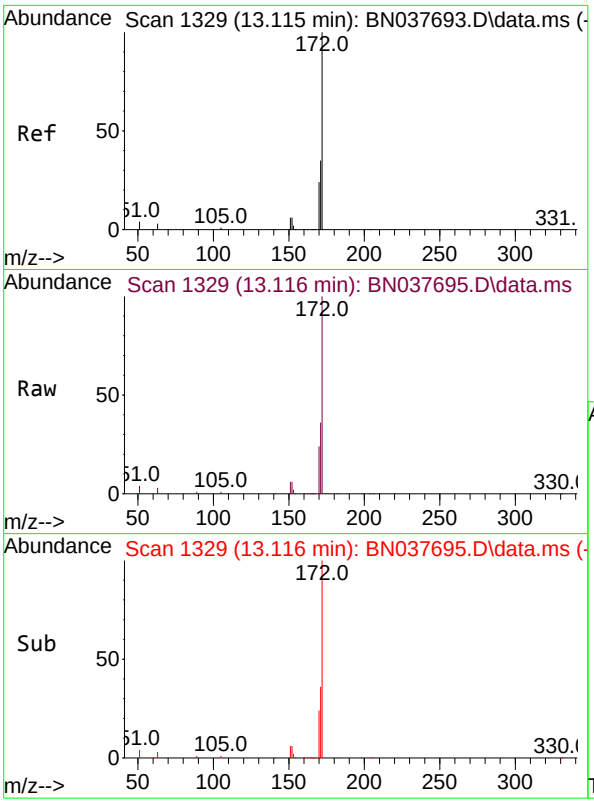


#14
2,4,6-Tribromophenol
Concen: 1.728 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:330 Resp: 2959

Ion	Ratio	Lower	Upper
330	100		
332	95.0	75.3	112.9
141	45.3	35.0	52.4



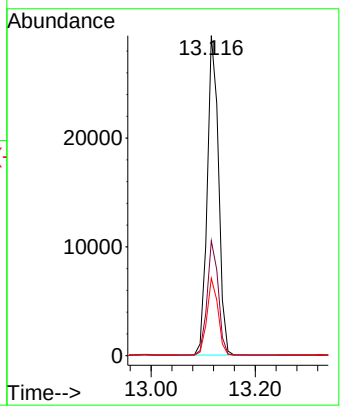


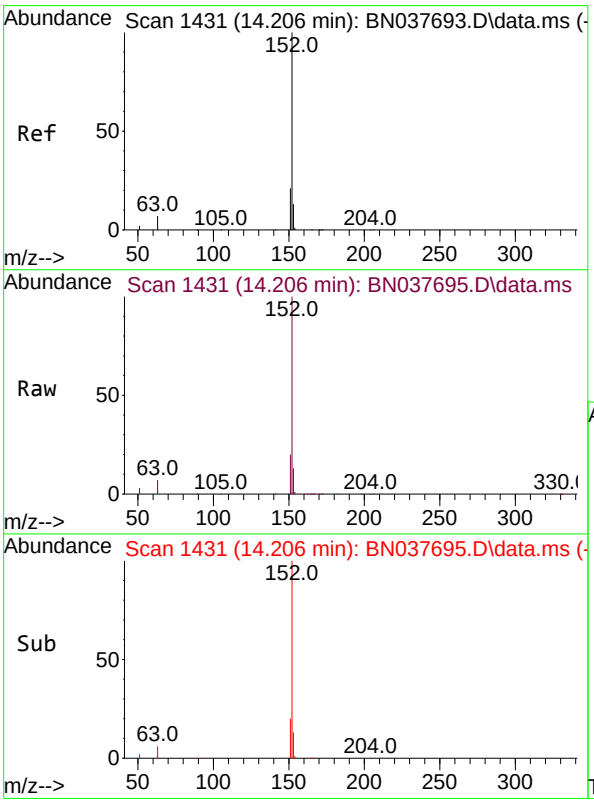
#15
2-Fluorobiphenyl
Concen: 1.615 ng
RT: 13.116 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 44363

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	24.2	19.8	29.8

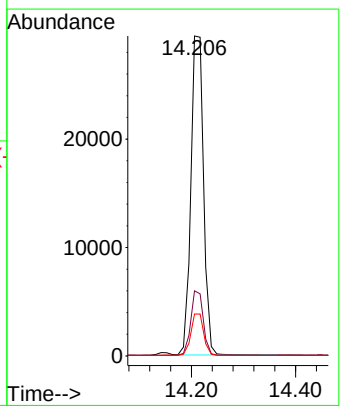


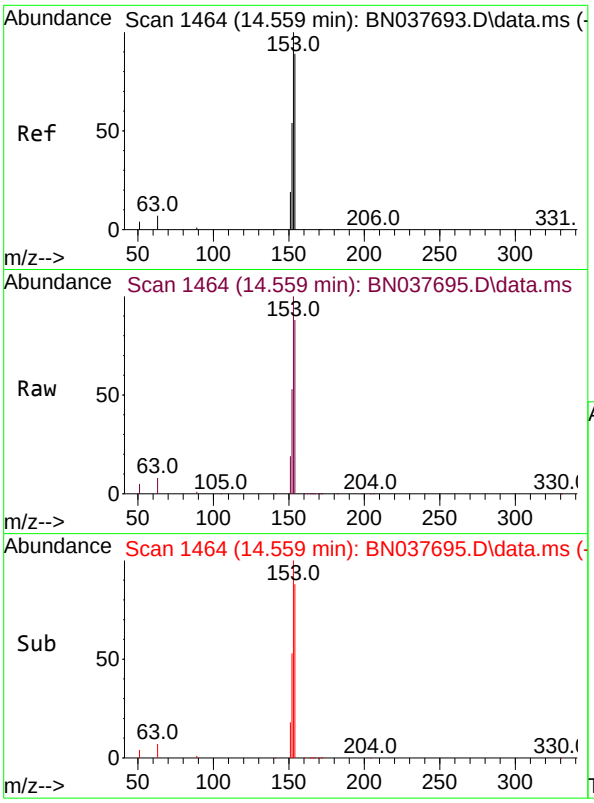


#16
Acenaphthylene
Concen: 1.644 ng
RT: 14.206 min Scan# 1431
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:152 Resp: 49508

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	13.0	10.4	15.6



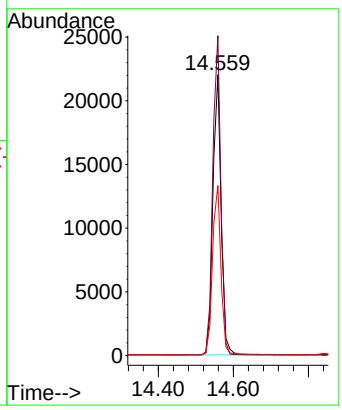


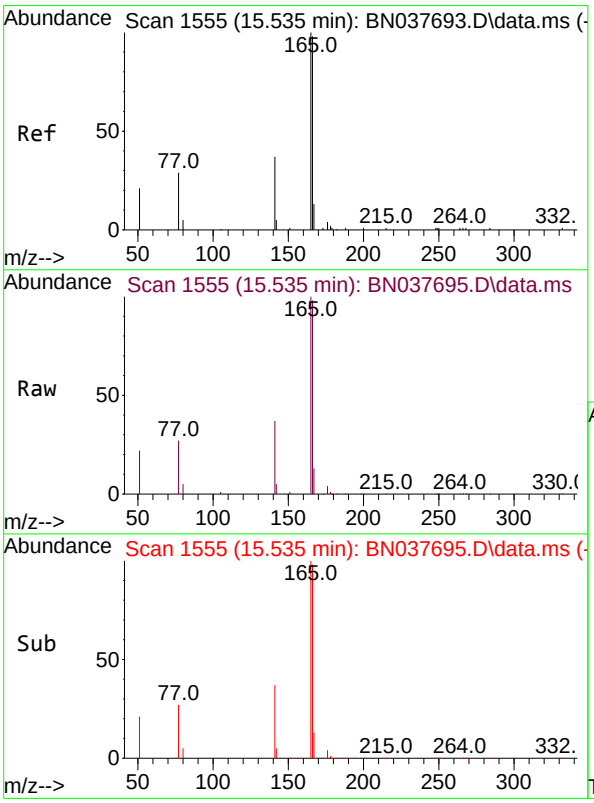
#17
Acenaphthene
Concen: 1.641 ng
RT: 14.559 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 33424

Ion	Ratio	Lower	Upper
154	100		
153	111.9	89.8	134.8
152	61.8	50.2	75.2

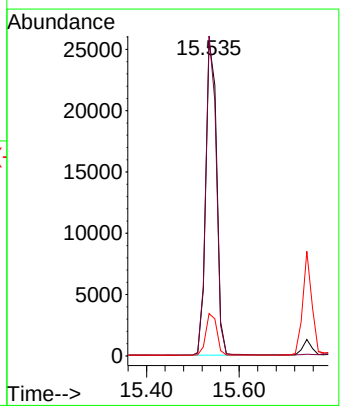


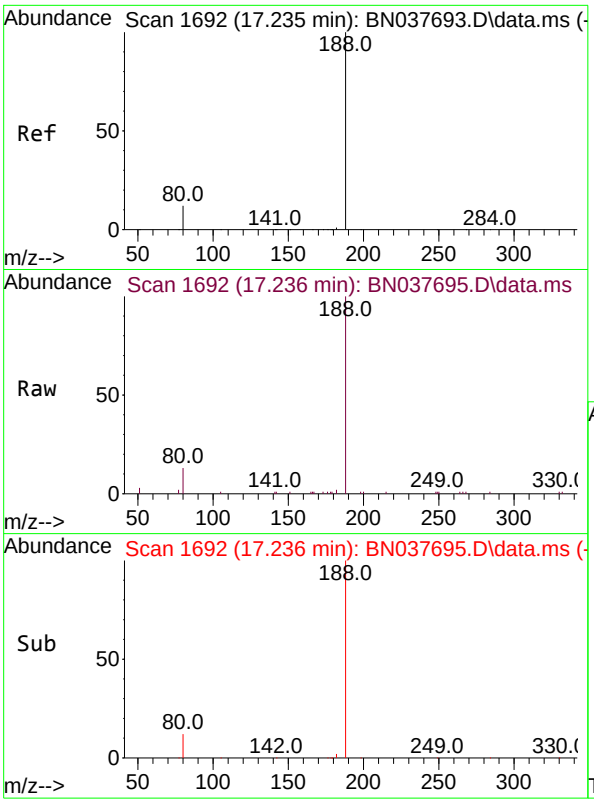


#18
Fluorene
Concen: 1.646 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:166 Resp: 40588

Ion	Ratio	Lower	Upper
166	100		
165	98.2	79.6	119.4
167	13.5	10.6	16.0



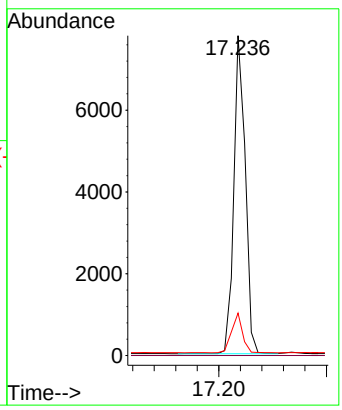


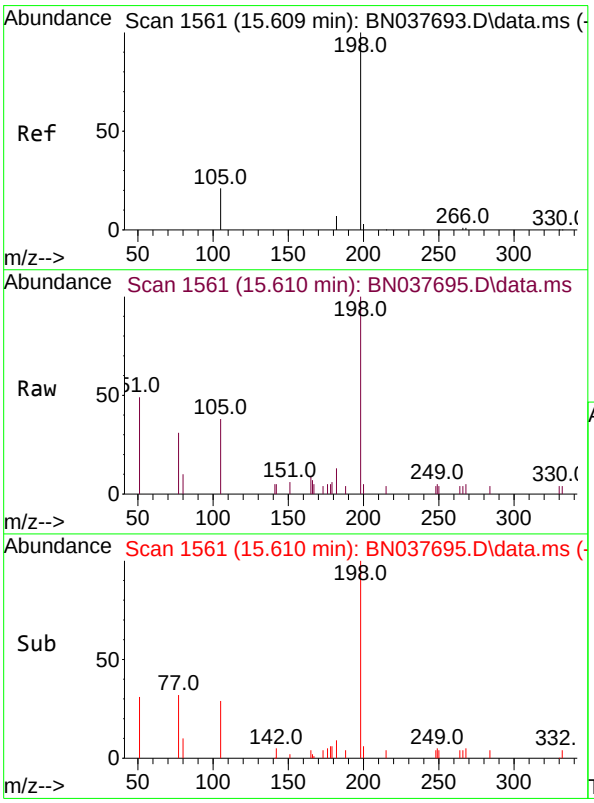
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 11496

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.3	10.6	15.8

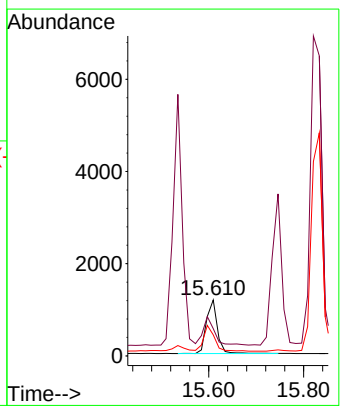


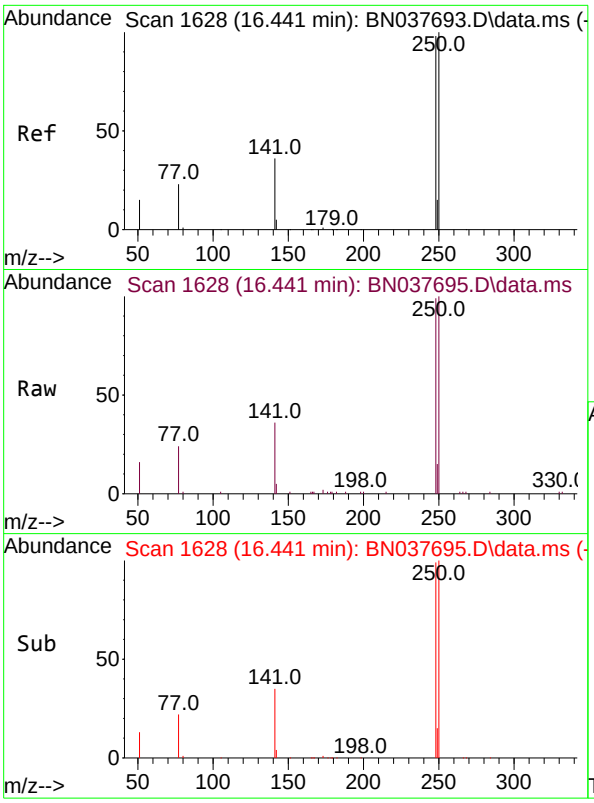


#20
4,6-Dinitro-2-methylphenol
Concen: 1.725 ng
RT: 15.610 min Scan# 1561
Delta R.T. 0.001 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:198 Resp: 1837

Ion	Ratio	Lower	Upper
198	100		
51	48.7	95.1	142.7#
105	37.6	53.8	80.6#



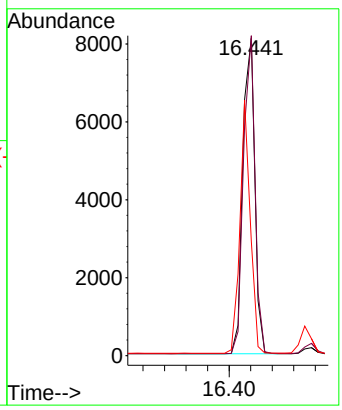


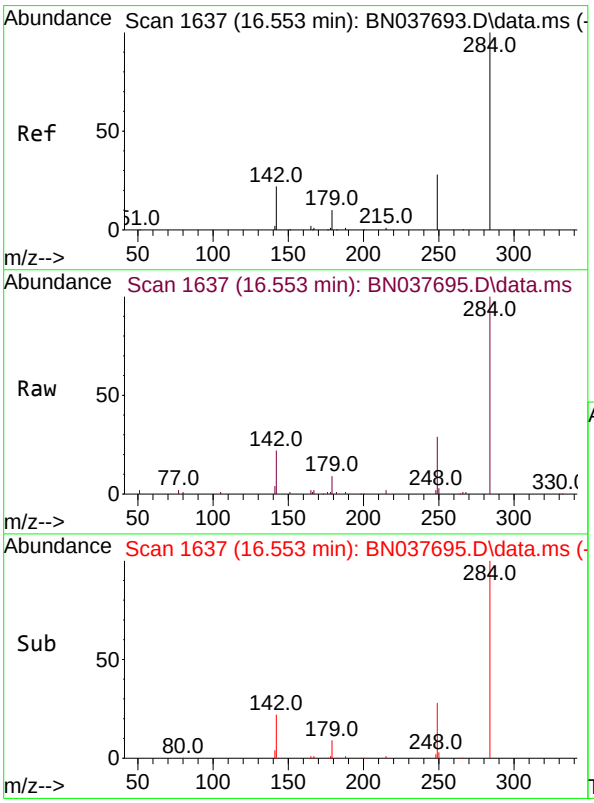
#21
4-Bromophenyl-phenylether
Concen: 1.669 ng
RT: 16.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 12511

Ion	Ratio	Lower	Upper
248	100		
250	100.8	81.5	122.3
141	36.0	30.8	46.2

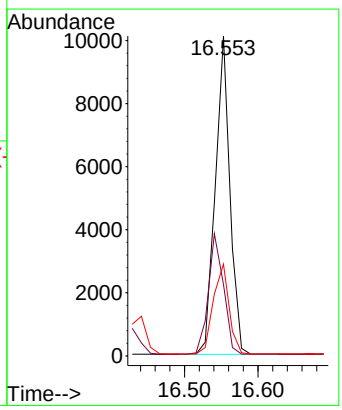


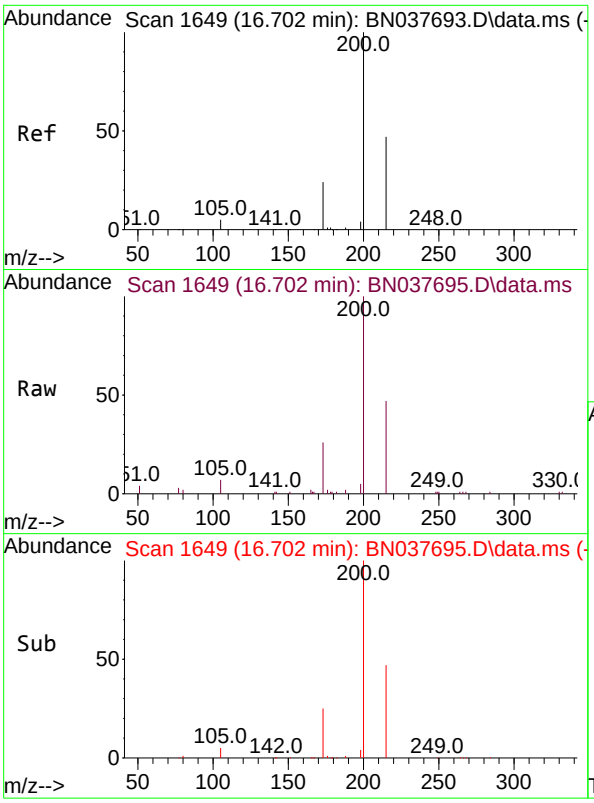


#22
Hexachlorobenzene
Concen: 1.628 ng
RT: 16.553 min Scan# 1637
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:284 Resp: 14034

Ion	Ratio	Lower	Upper
284	100		
142	39.1	30.9	46.3
249	30.3	24.8	37.2



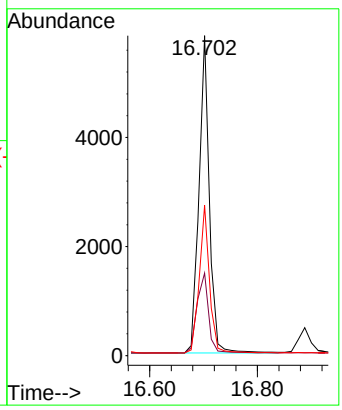


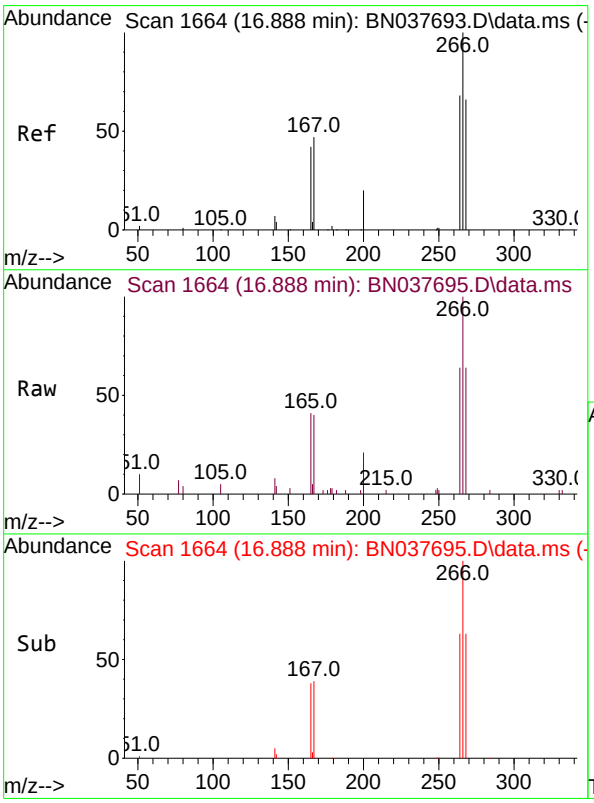
#23
Atrazine
Concen: 1.628 ng
RT: 16.702 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 7765

Ion	Ratio	Lower	Upper
200	100		
173	25.8	21.4	32.2
215	47.0	39.2	58.8

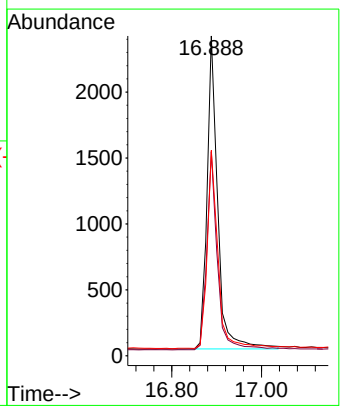


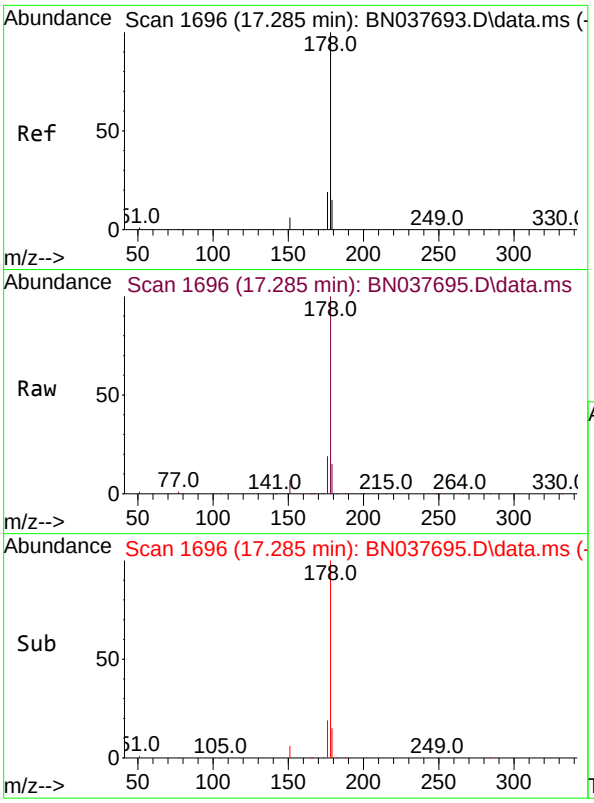


#24
Pentachlorophenol
Concen: 1.571 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:266 Resp: 3932

Ion	Ratio	Lower	Upper
266	100		
264	63.1	51.6	77.4
268	65.1	53.2	79.8



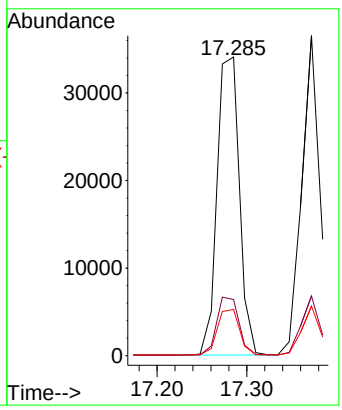


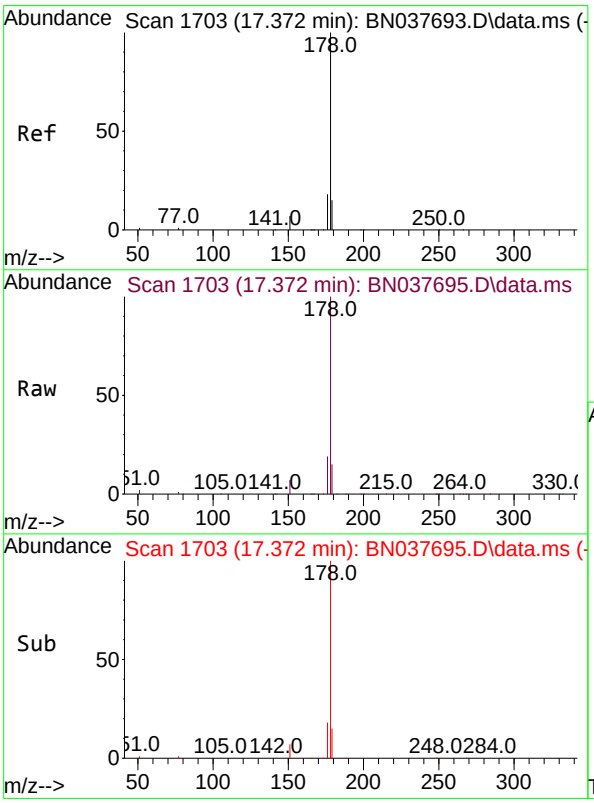
#25
Phenanthrene
Concen: 1.632 ng
RT: 17.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 59082

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.2	12.2	18.2

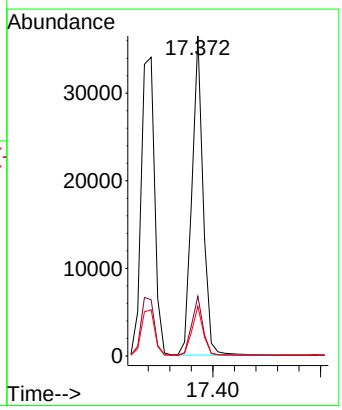


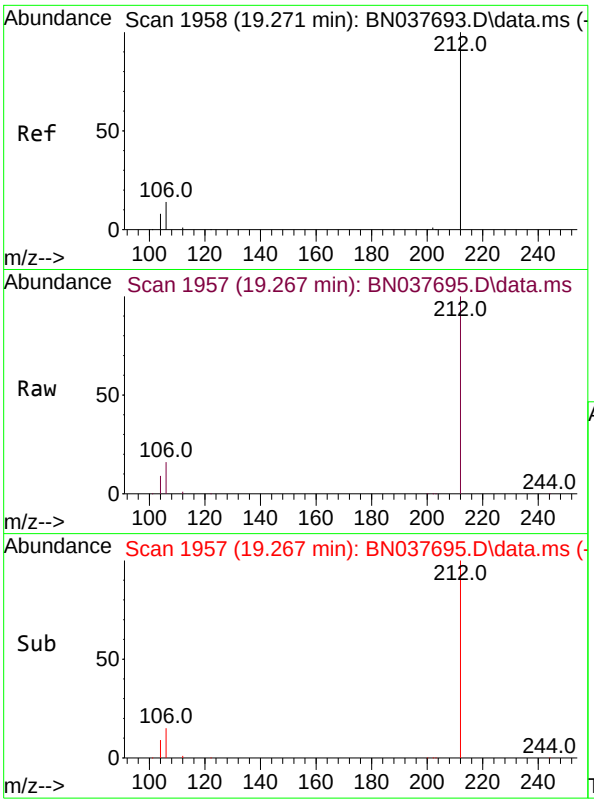


#26
Anthracene
Concen: 1.635 ng
RT: 17.372 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:178 Resp: 52416

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	22.0
179	15.2	12.2	18.4



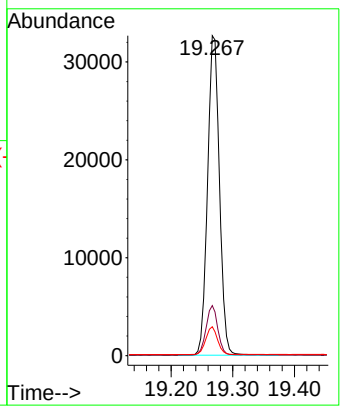


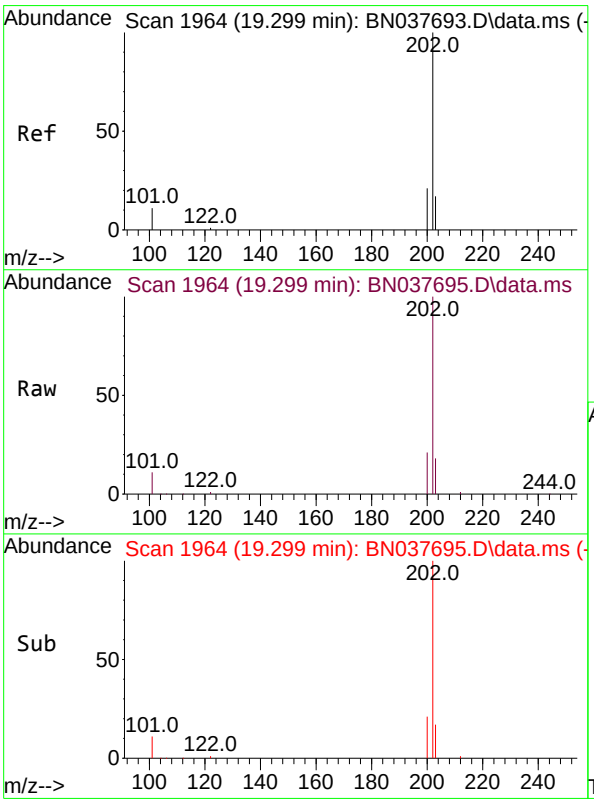
#27
Fluoranthene-d10
Concen: 1.520 ng
RT: 19.267 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 43876

Ion	Ratio	Lower	Upper
212	100		
106	15.2	12.2	18.2
104	8.6	6.9	10.3

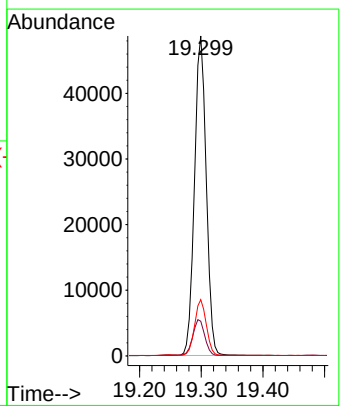


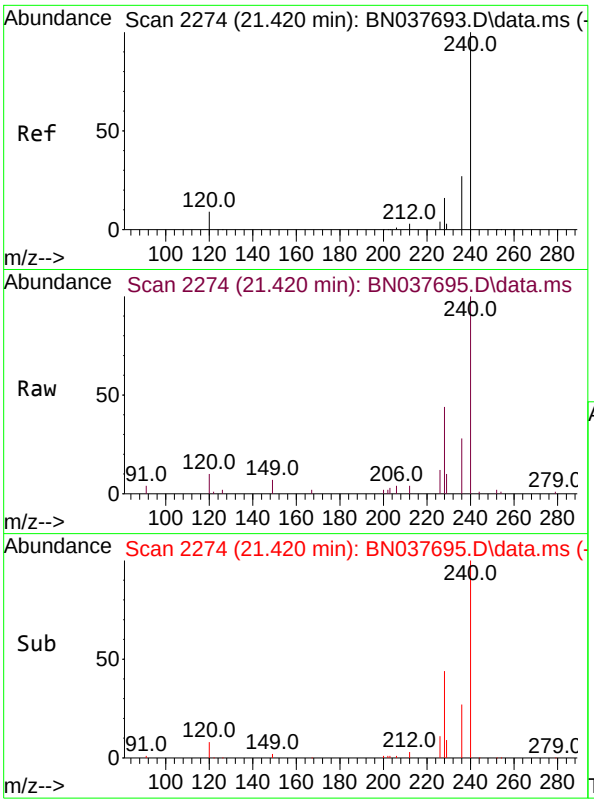


#28
Fluoranthene
Concen: 1.614 ng
RT: 19.299 min Scan# 1964
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:202 Resp: 64074

Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.3	13.9
203	17.3	13.7	20.5



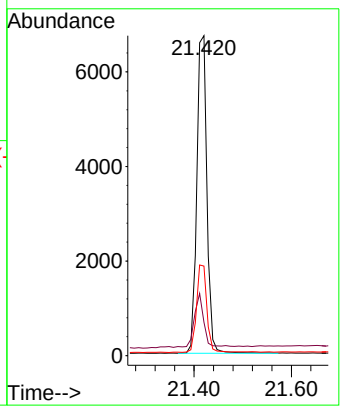


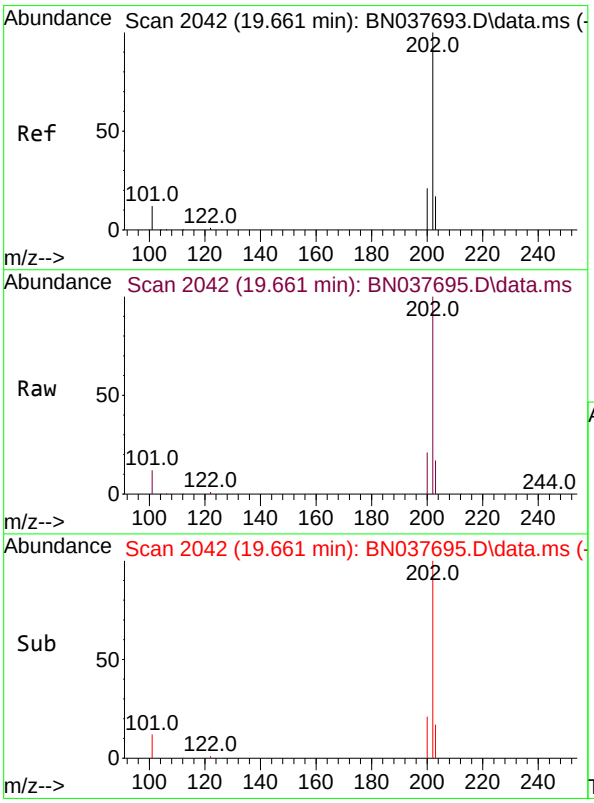
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 9743

Ion	Ratio	Lower	Upper
240	100		
120	10.4	9.2	13.8
236	28.0	22.6	33.8

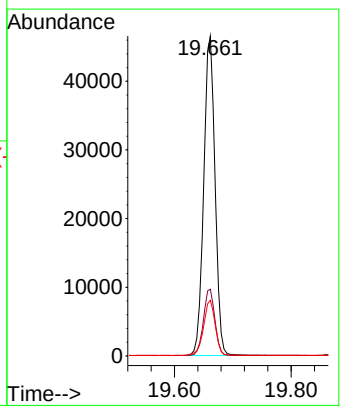


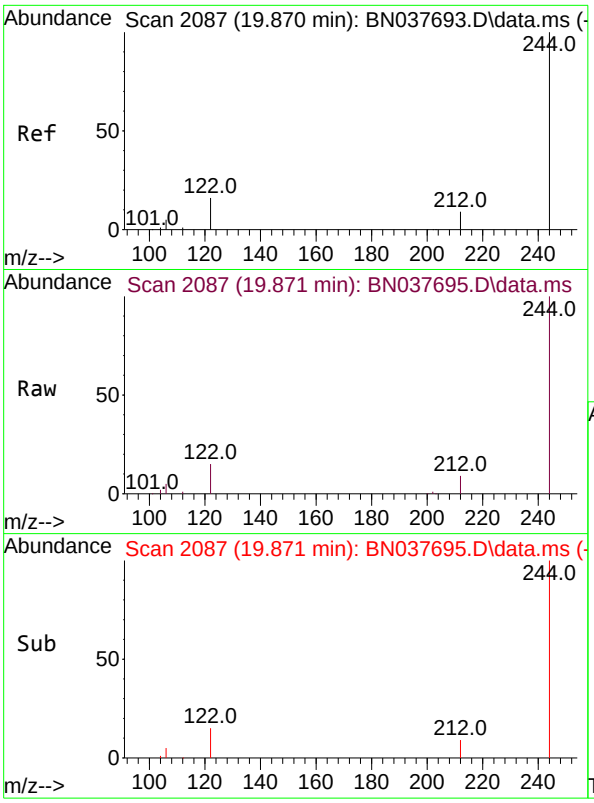


#30
Pyrene
Concen: 1.638 ng
RT: 19.661 min Scan# 2042
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:202 Resp: 62457

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.8	14.3	21.5



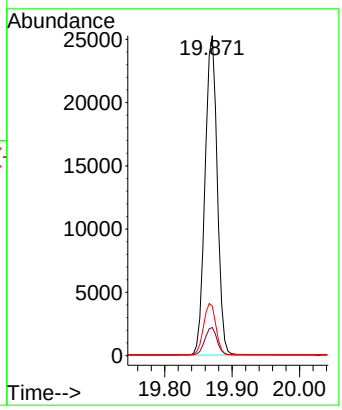


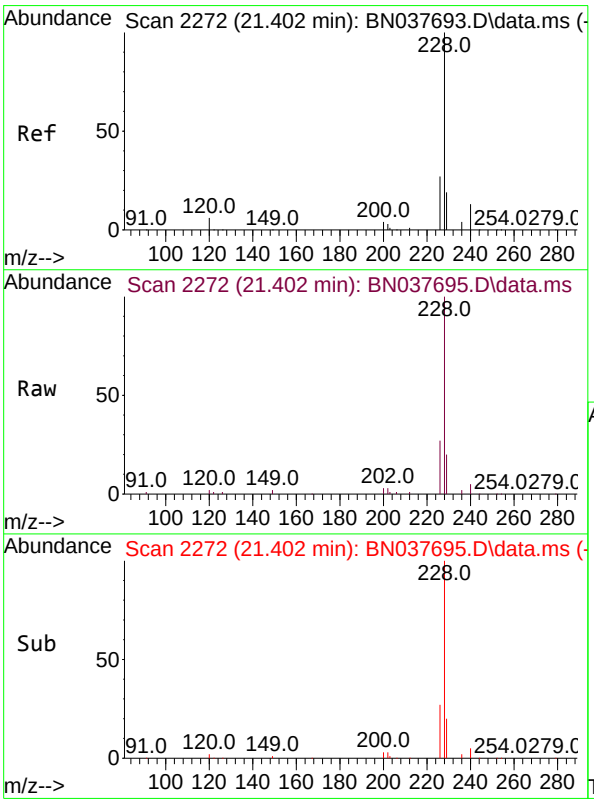
#31
Terphenyl-d14
Concen: 1.601 ng
RT: 19.871 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 31656

Ion	Ratio	Lower	Upper
244	100		
212	8.8	7.5	11.3
122	15.5	13.2	19.8

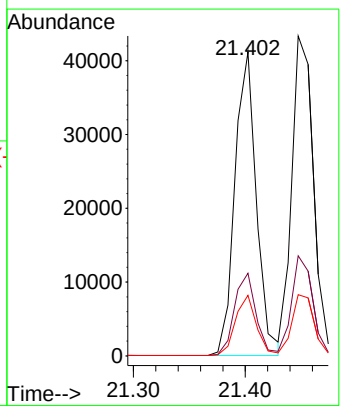


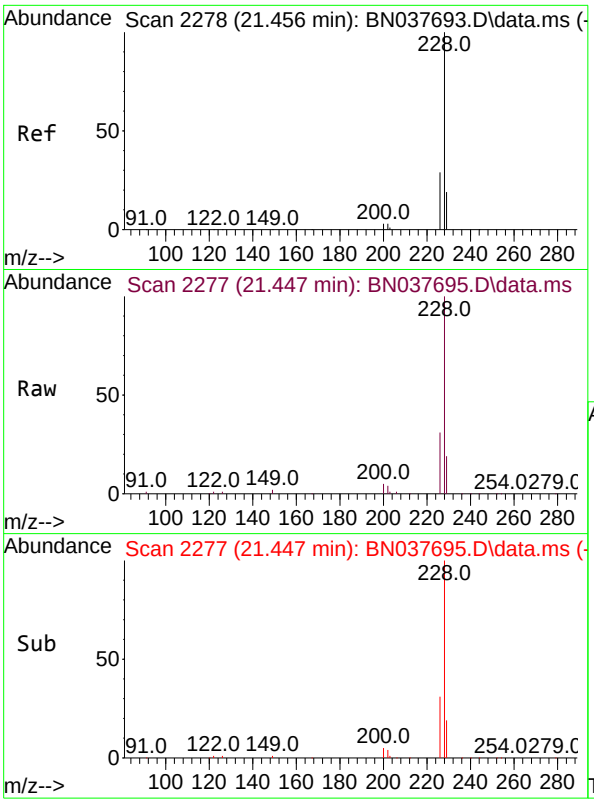


#32
Benzo(a)anthracene
Concen: 1.616 ng
RT: 21.402 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:228 Resp: 54932

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.2	33.2
229	19.9	15.8	23.6



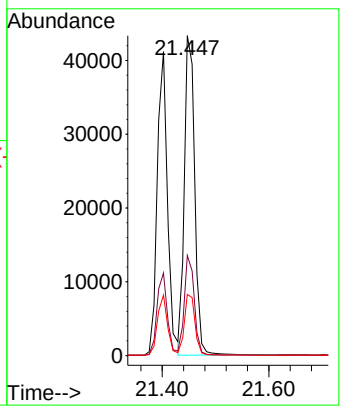


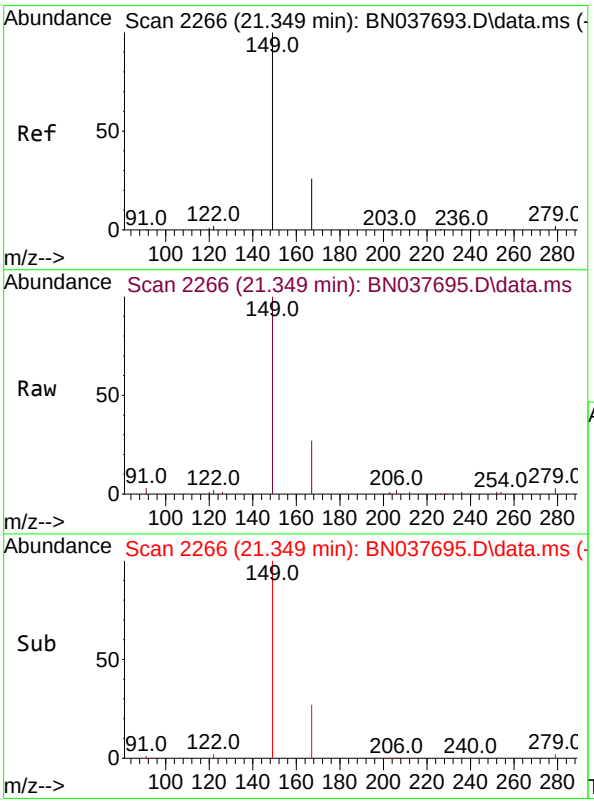
#33
Chrysene
Concen: 1.615 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 58866

Ion	Ratio	Lower	Upper
228	100		
226	31.3	23.5	35.3
229	19.1	15.9	23.9

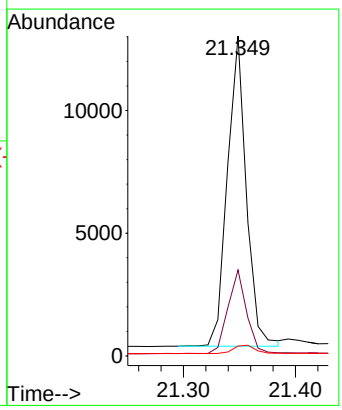


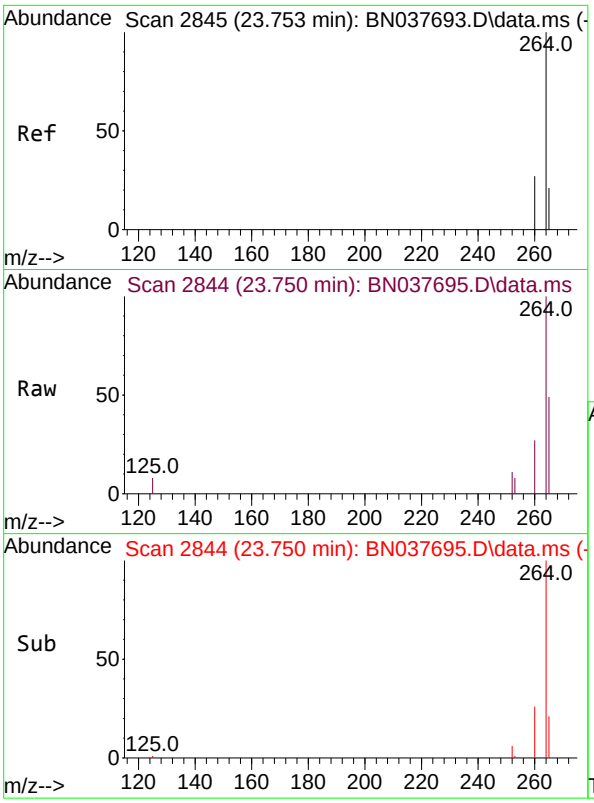


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.470 ng
RT: 21.349 min Scan# 2266
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:149 Resp: 14814

Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.8	31.2
279	3.2	3.3	4.9#



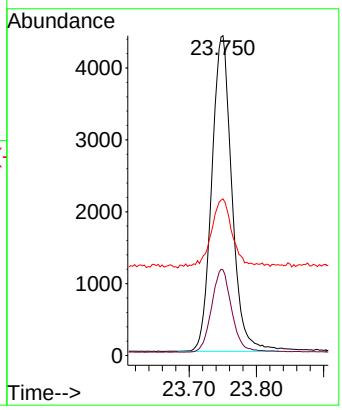


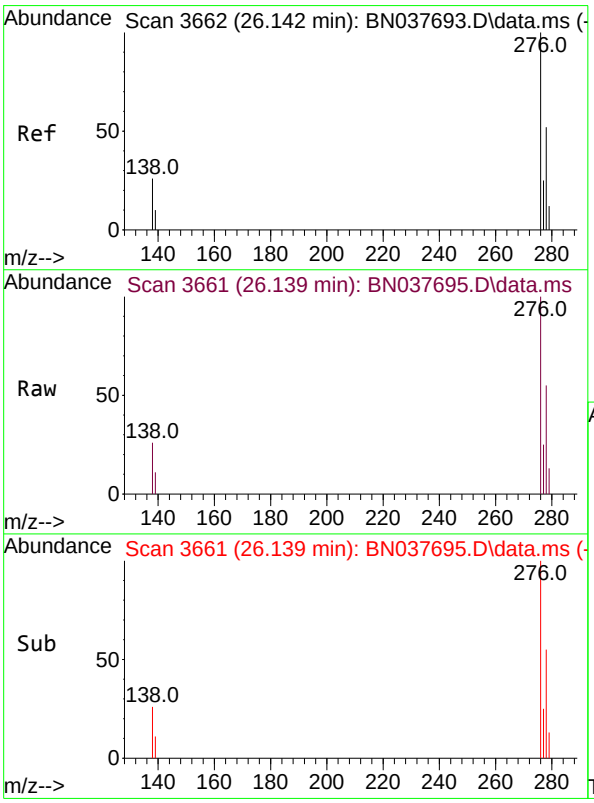
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 28
Delta R.T. -0.003 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 9111

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.8	32.8
265	49.0	39.4	59.2

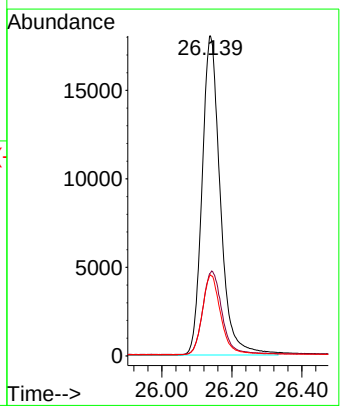


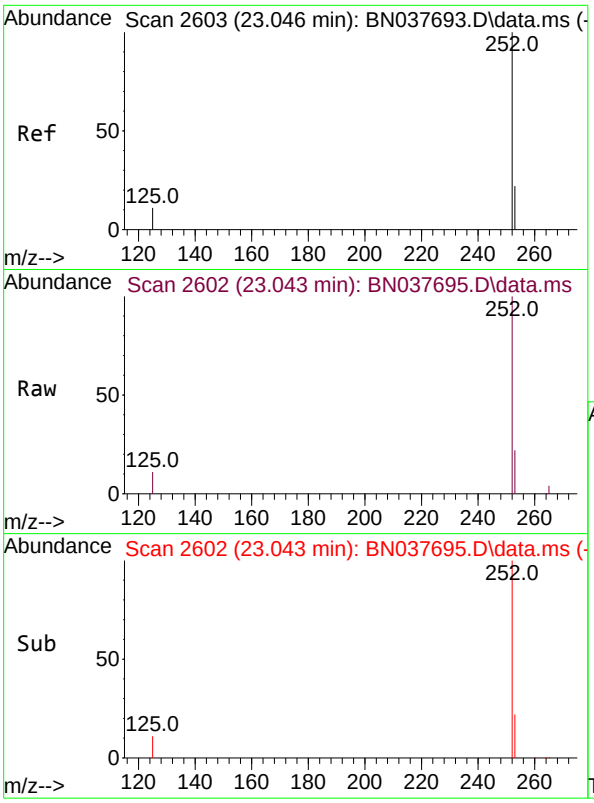


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.705 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.003 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:276 Resp: 65254

Ion	Ratio	Lower	Upper
276	100		
138	27.5	21.9	32.9
277	25.2	20.1	30.1



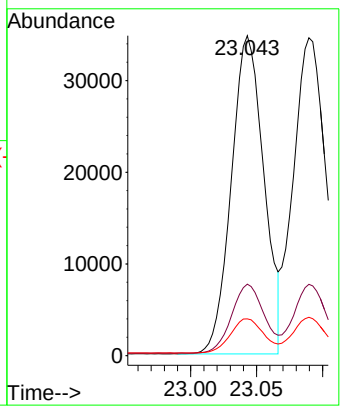


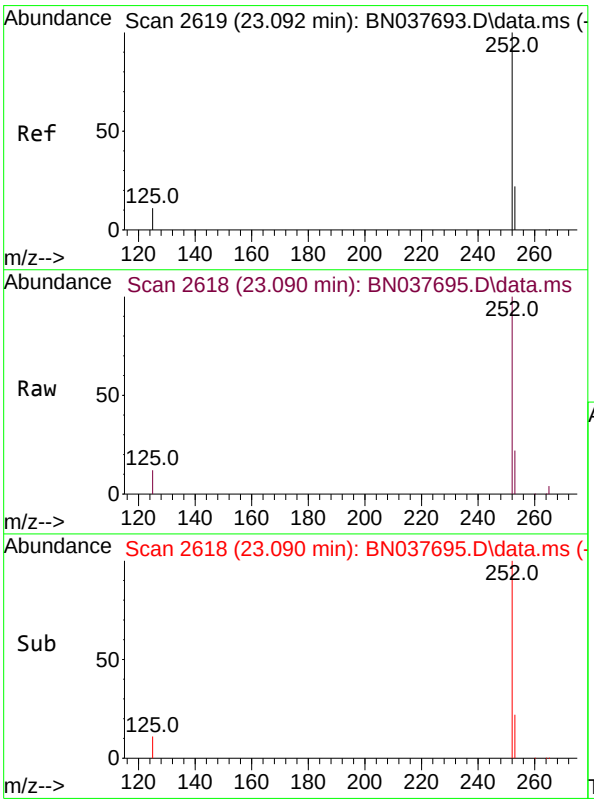
#37
Benzo(b)fluoranthene
Concen: 1.662 ng
RT: 23.043 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 59639

Ion	Ratio	Lower	Upper
252	100		
253	22.3	19.4	29.2
125	11.5	11.2	16.8

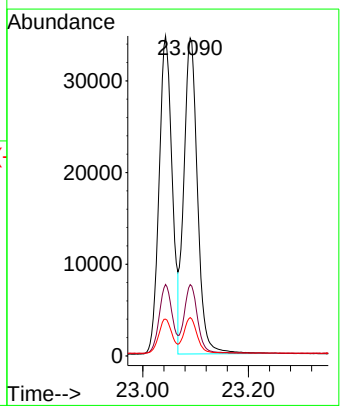


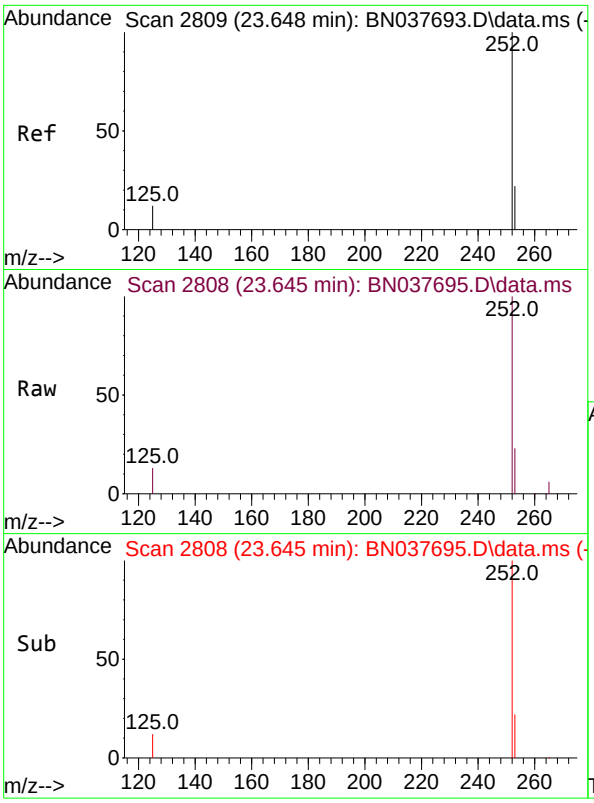


#38
Benzo(k)fluoranthene
Concen: 1.698 ng
RT: 23.090 min Scan# 2618
Delta R.T. -0.003 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:252 Resp: 62123

Ion	Ratio	Lower	Upper
252	100		
253	22.4	19.4	29.0
125	12.1	11.6	17.4



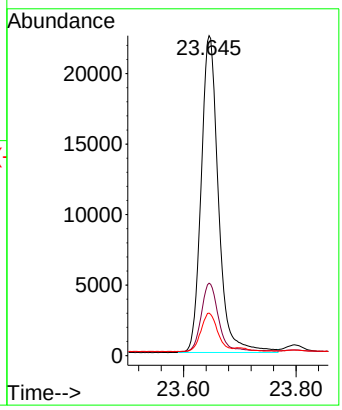


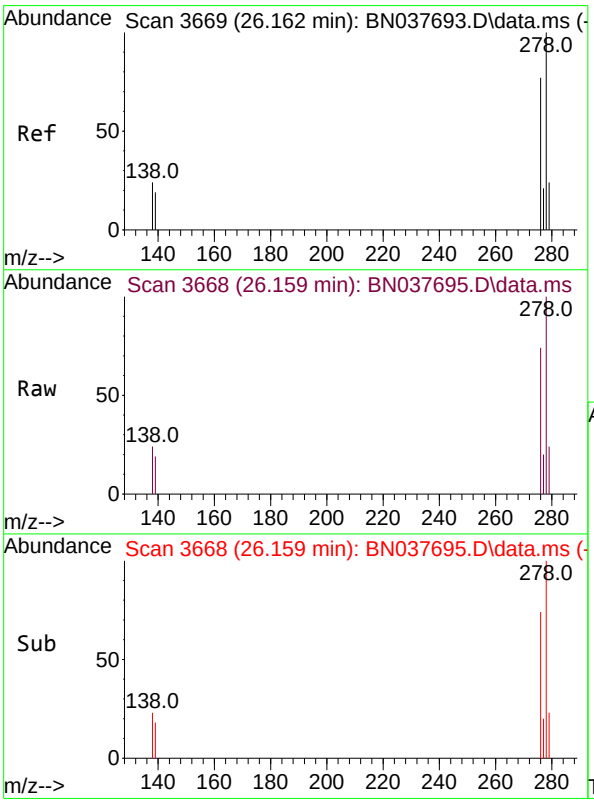
#39
Benzo(a)pyrene
Concen: 1.667 ng
RT: 23.645 min Scan# 28
Delta R.T. -0.003 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 47897

Ion	Ratio	Lower	Upper
252	100		
253	22.6	20.8	31.2
125	13.3	13.9	20.9#

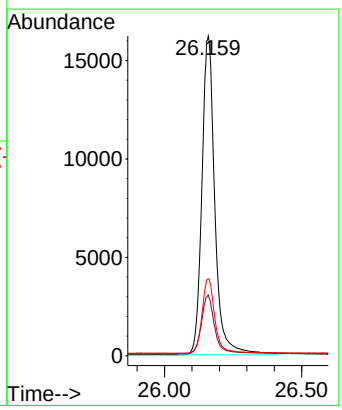


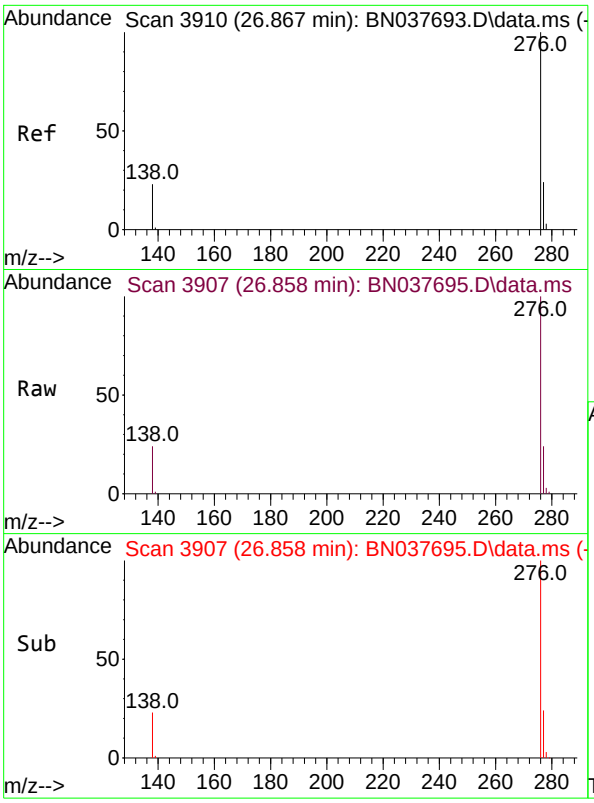


#40
Dibenzo(a,h)anthracene
Concen: 1.744 ng
RT: 26.159 min Scan# 3668
Delta R.T. -0.003 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:278 Resp: 53306

Ion	Ratio	Lower	Upper
278	100		
139	19.0	17.8	26.6
279	24.1	22.0	33.0



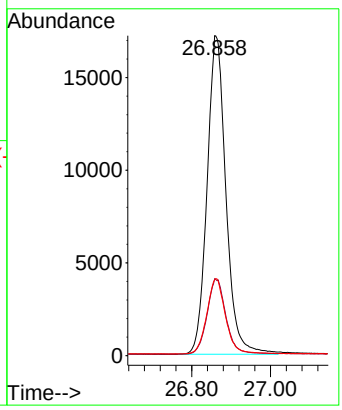


#41
Benzo(g,h,i)perylene
Concen: 1.666 ng
RT: 26.858 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 57151

Ion	Ratio	Lower	Upper
276	100		
277	24.0	20.6	31.0
138	23.7	20.2	30.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037696.D
Acq On : 11 Sep 2025 12:56
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Sep 11 14:07:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.840	152	5084	0.400	ng		0.00
7) Naphthalene-d8	10.648	136	13375	0.400	ng		0.00
13) Acenaphthene-d10	14.495	164	6550	0.400	ng		0.00
19) Phenanthrene-d10	17.235	188	11925	0.400	ng		0.00
29) Chrysene-d12	21.420	240	12141	0.400	ng		0.00
35) Perylene-d12	23.750	264	11403	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.399	112	38119	3.266	ng		0.00
5) Phenol-d6	6.988	99	49810	3.291	ng		0.00
8) Nitrobenzene-d5	8.993	82	32423	3.314	ng		0.00
11) 2-Methylnaphthalene-d10	12.243	152	58810	3.319	ng		0.00
14) 2,4,6-Tribromophenol	15.982	330	6865	4.018	ng		0.00
15) 2-Fluorobiphenyl	13.115	172	87709	3.202	ng		0.00
27) Fluoranthene-d10	19.267	212	105719	3.531	ng		0.00
31) Terphenyl-d14	19.870	244	76156	3.090	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.304	88	16994	3.209	ng		98
3) n-Nitrosodimethylamine	3.601	42	22382	3.235	ng	#	95
6) bis(2-Chloroethyl)ether	7.255	93	43338	3.205	ng		100
9) Naphthalene	10.690	128	119338	3.264	ng		99
10) Hexachlorobutadiene	11.000	225	21272	3.216	ng	#	100
12) 2-Methylnaphthalene	12.314	142	76164	3.368	ng		99
16) Acenaphthylene	14.217	152	100382	3.342	ng		100
17) Acenaphthene	14.559	154	67901	3.343	ng		98
18) Fluorene	15.535	166	85576	3.479	ng		98
20) 4,6-Dinitro-2-methylph...	15.609	198	4427	4.008	ng	#	37
21) 4-Bromophenyl-phenylether	16.441	248	25659	3.300	ng		97
22) Hexachlorobenzene	16.553	284	28853	3.226	ng		99
23) Atrazine	16.702	200	18156	3.670	ng		96
24) Pentachlorophenol	16.888	266	9551	3.678	ng		97
25) Phenanthrene	17.285	178	125980	3.355	ng		100
26) Anthracene	17.372	178	116443	3.501	ng		100
28) Fluoranthene	19.299	202	150569	3.657	ng		100
30) Pyrene	19.661	202	149814	3.152	ng		100
32) Benzo(a)anthracene	21.402	228	141736	3.347	ng		99
33) Chrysene	21.456	228	146238	3.221	ng		100
34) Bis(2-ethylhexyl)phtha...	21.349	149	42504	3.385	ng	#	99
36) Indeno(1,2,3-cd)pyrene	26.139	276	170120	3.551	ng		100
37) Benzo(b)fluoranthene	23.046	252	152726	3.401	ng		94
38) Benzo(k)fluoranthene	23.092	252	154690	3.378	ng	#	94
39) Benzo(a)pyrene	23.648	252	124741	3.469	ng	#	90
40) Dibenzo(a,h)anthracene	26.159	278	138597	3.623	ng		92
41) Benzo(g,h,i)perylene	26.864	276	146601	3.415	ng		96

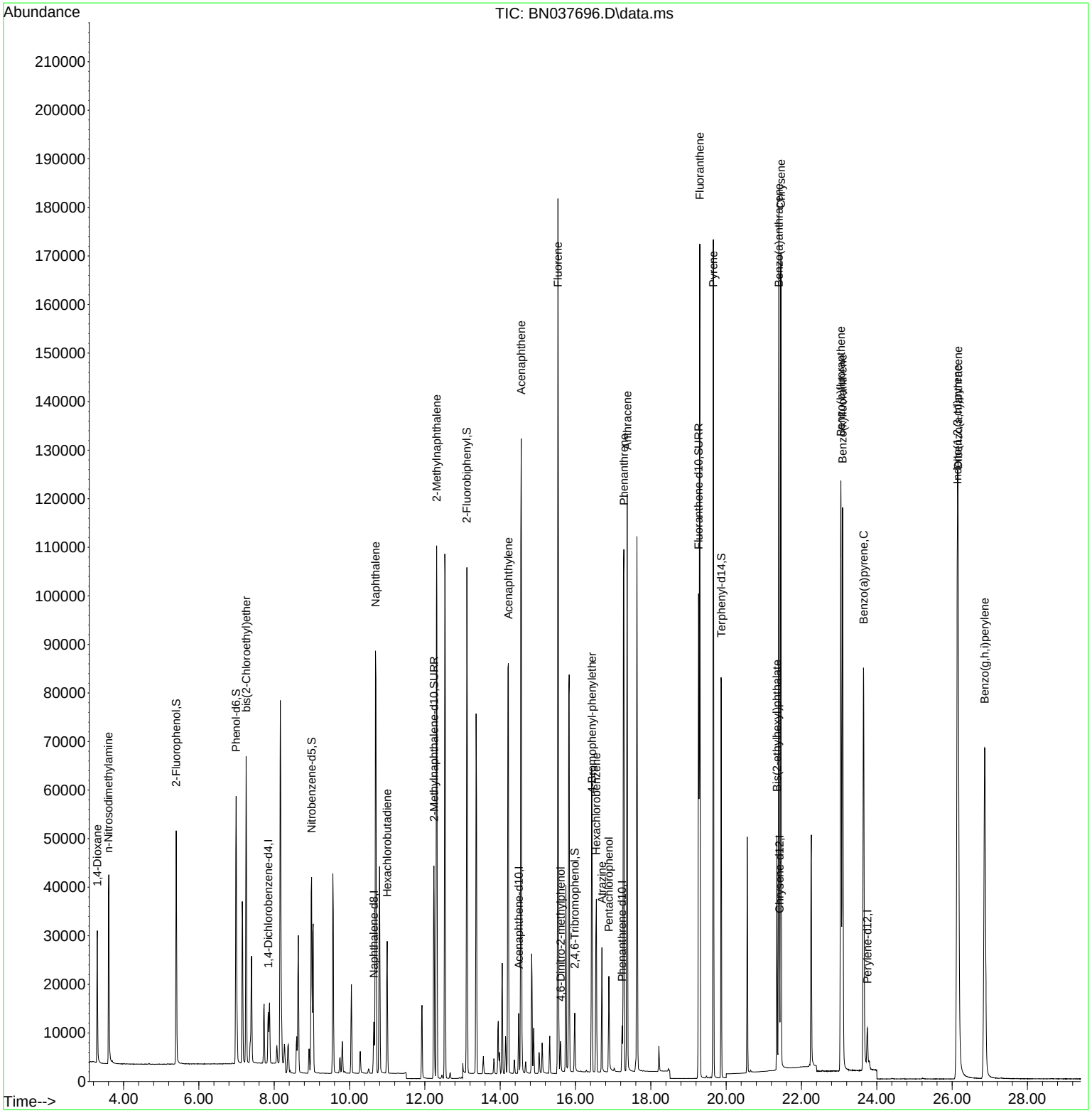
(#) = qualifier out of range (m) = manual integration (+) = signals summed

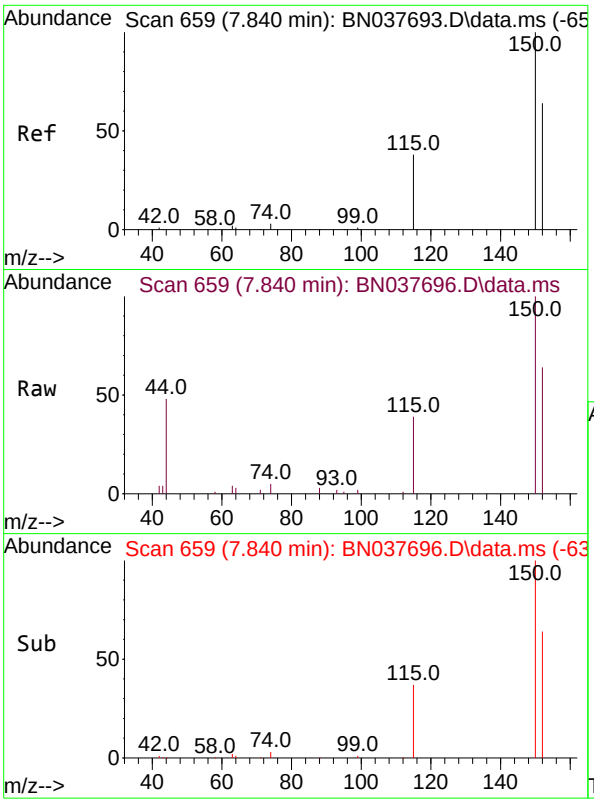
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037696.D
Acq On : 11 Sep 2025 12:56
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Sep 11 14:07:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



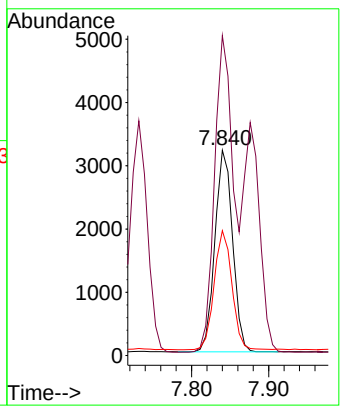


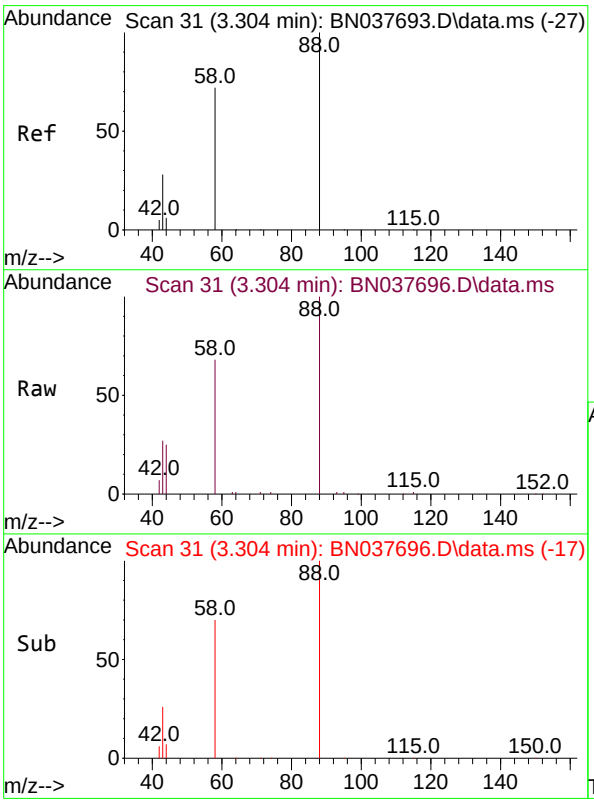
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 5084

Ion	Ratio	Lower	Upper
152	100		
150	155.9	124.5	186.7
115	60.8	49.2	73.8

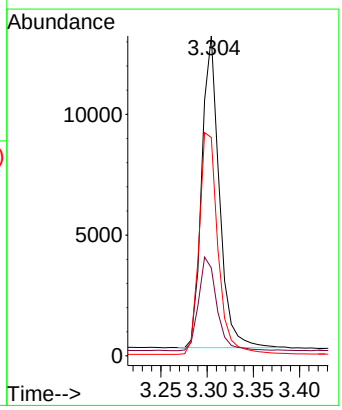


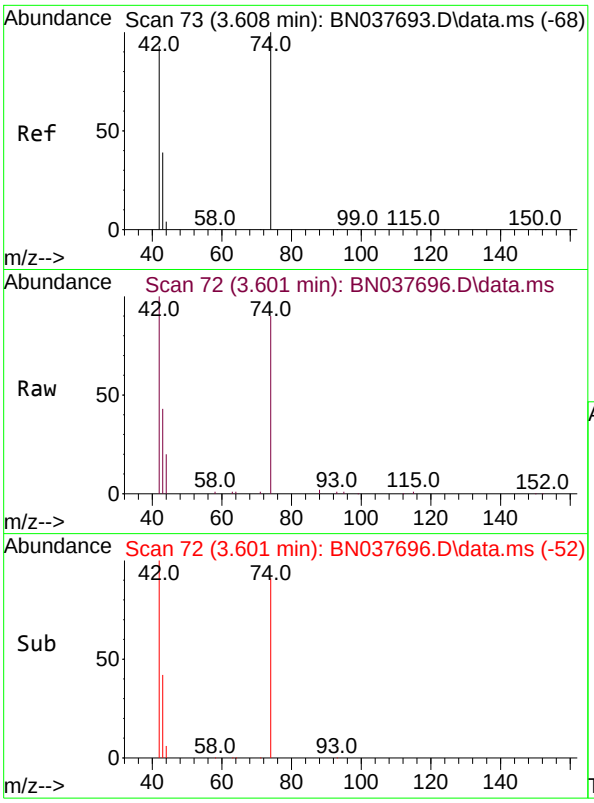


#2
1,4-Dioxane
Concen: 3.209 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion: 88 Resp: 16994

Ion	Ratio	Lower	Upper
88	100		
43	31.3	26.8	40.2
58	76.5	61.9	92.9



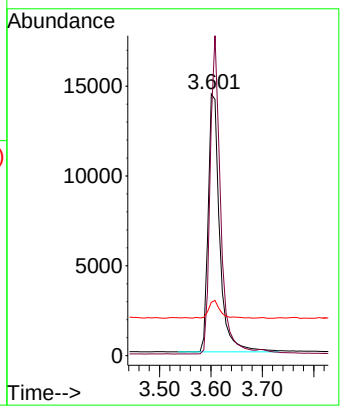


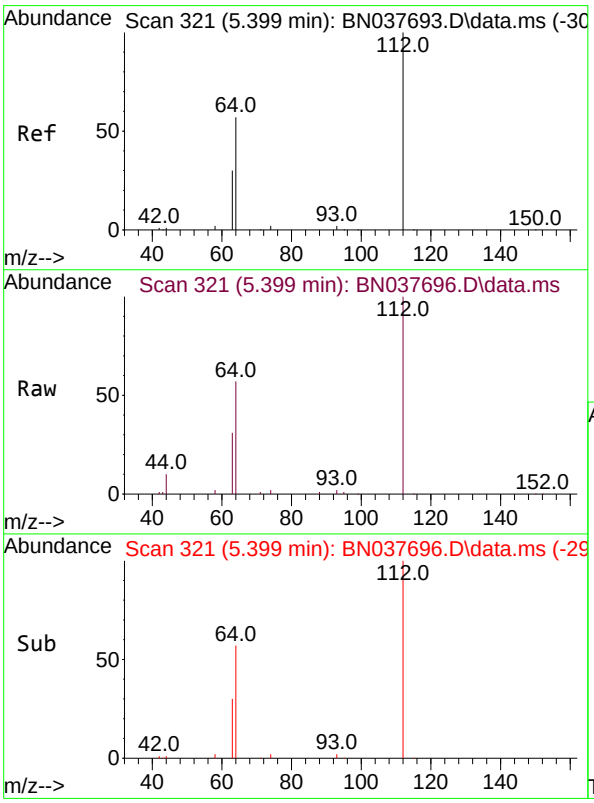
#3
n-Nitrosodimethylamine
Concen: 3.235 ng
RT: 3.601 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 22382

Ion	Ratio	Lower	Upper
42	100		
74	112.2	86.0	129.0
44	6.7	8.4	12.6#

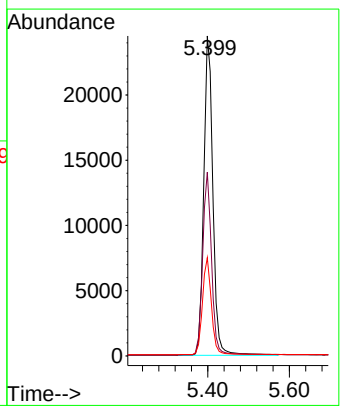


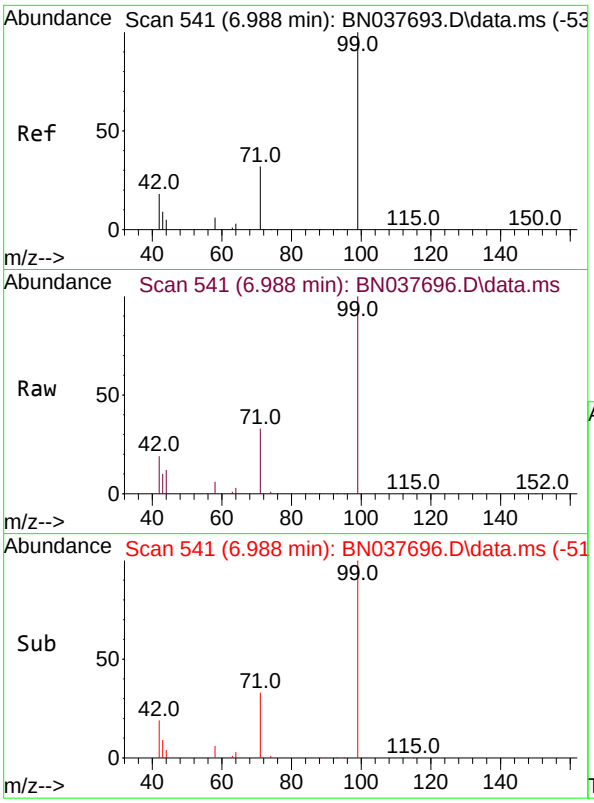


#4
2-Fluorophenol
Concen: 3.266 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:112 Resp: 38119

Ion	Ratio	Lower	Upper
112	100		
64	56.4	44.9	67.3
63	29.6	24.7	37.1



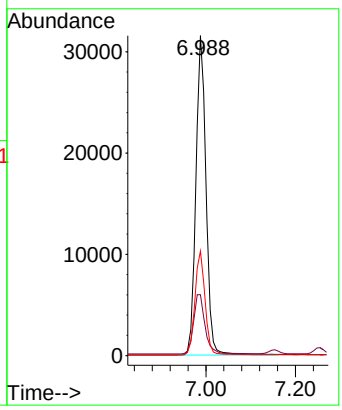


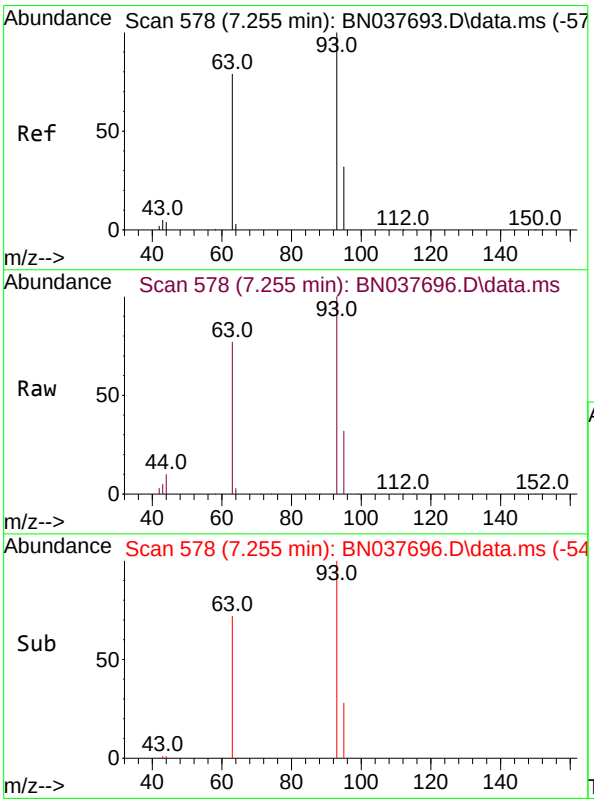
#5
Phenol-d6
Concen: 3.291 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 49810

Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.6	24.8
71	32.5	26.7	40.1

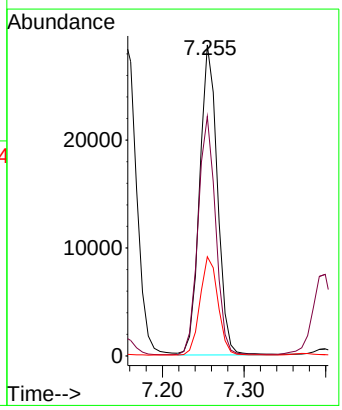


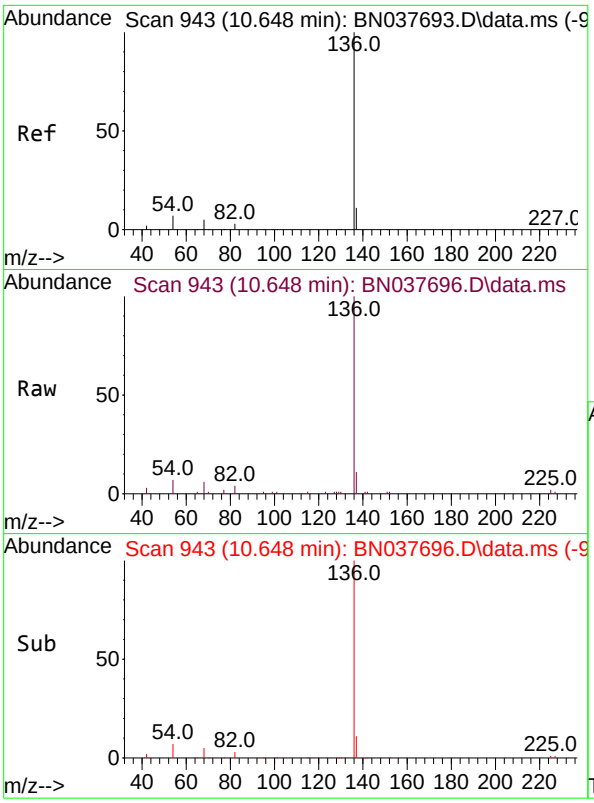


#6
bis(2-Chloroethyl)ether
Concen: 3.205 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion: 93 Resp: 43338

Ion	Ratio	Lower	Upper
93	100		
63	75.9	60.6	90.8
95	31.9	26.0	39.0



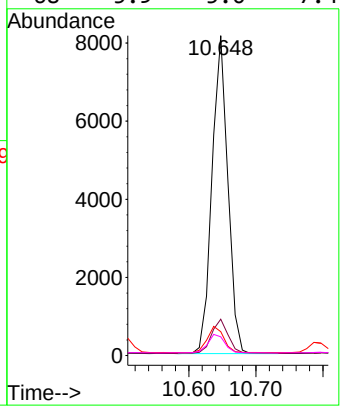


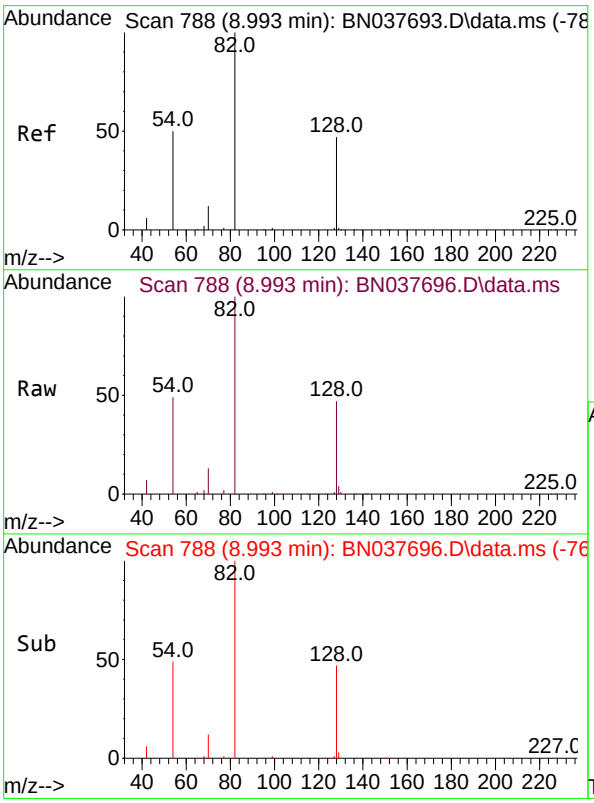
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 13375

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.5	6.3	9.5
68	5.9	5.0	7.4

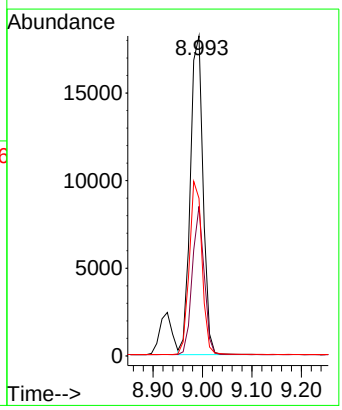


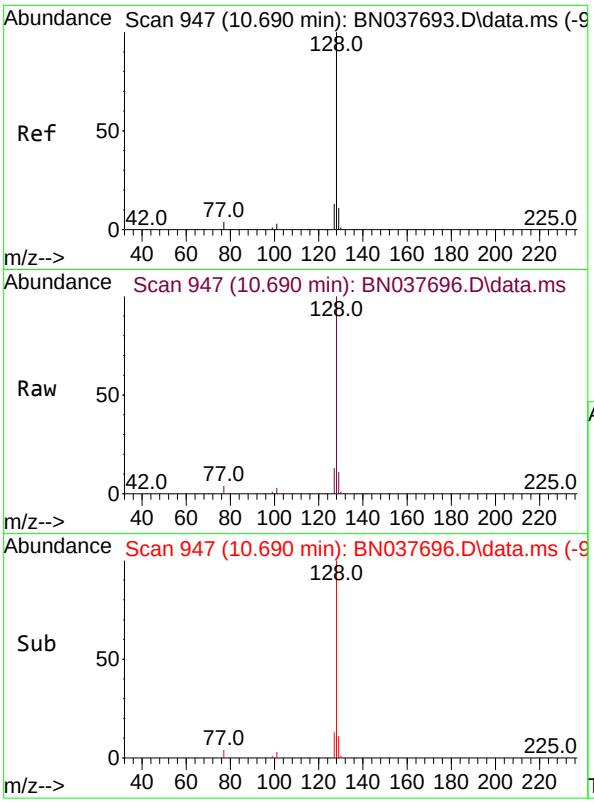


#8
Nitrobenzene-d5
Concen: 3.314 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion: 82 Resp: 32423

Ion	Ratio	Lower	Upper
82	100		
128	46.7	38.3	57.5
54	49.2	41.4	62.2



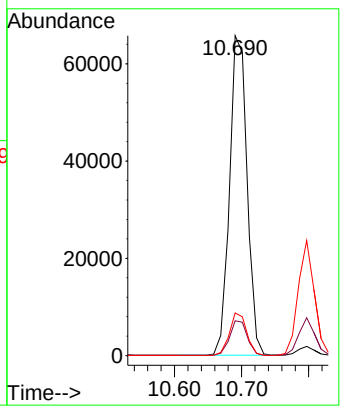


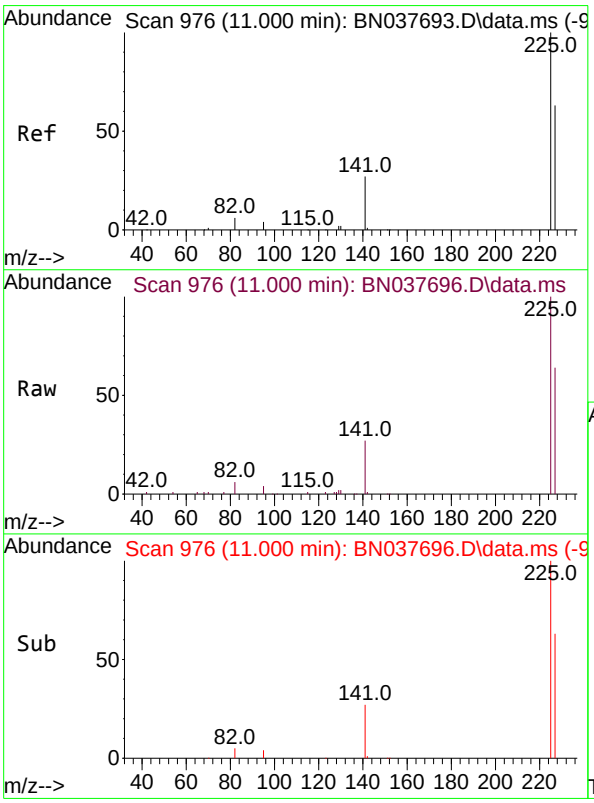
#9
Naphthalene
Concen: 3.264 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 119338

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.1	13.7
127	13.3	10.9	16.3

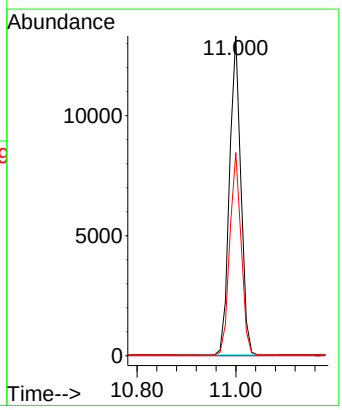


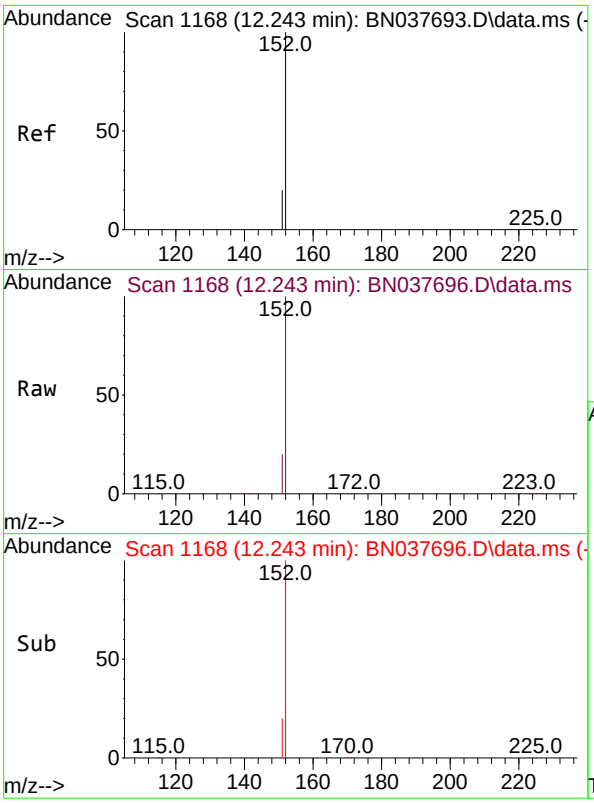


#10
Hexachlorobutadiene
Concen: 3.216 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:225 Resp: 21272

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	50.9	76.3



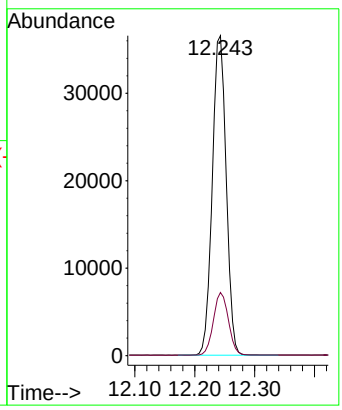


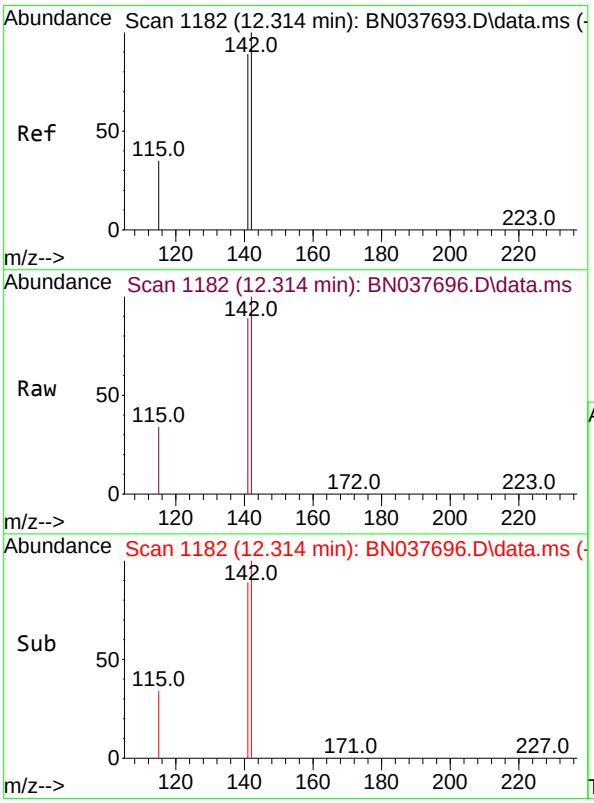
#11
2-Methylnaphthalene-d10
Concen: 3.319 ng
RT: 12.243 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 58810

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

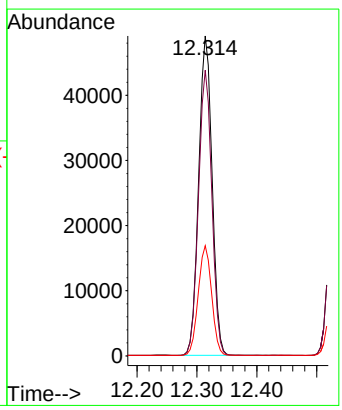


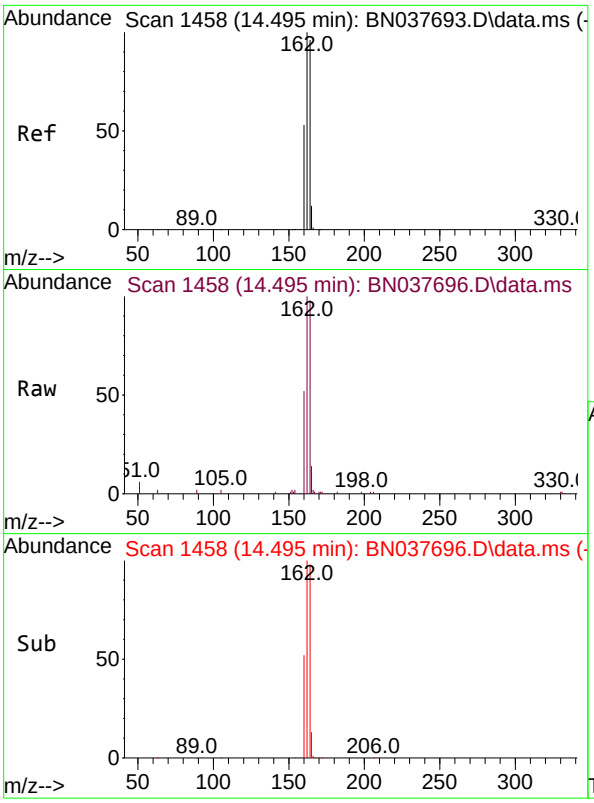


#12
2-Methylnaphthalene
Concen: 3.368 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:142 Resp: 76164

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.6	107.4
115	34.4	28.6	43.0



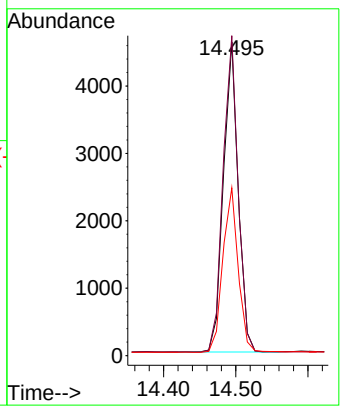


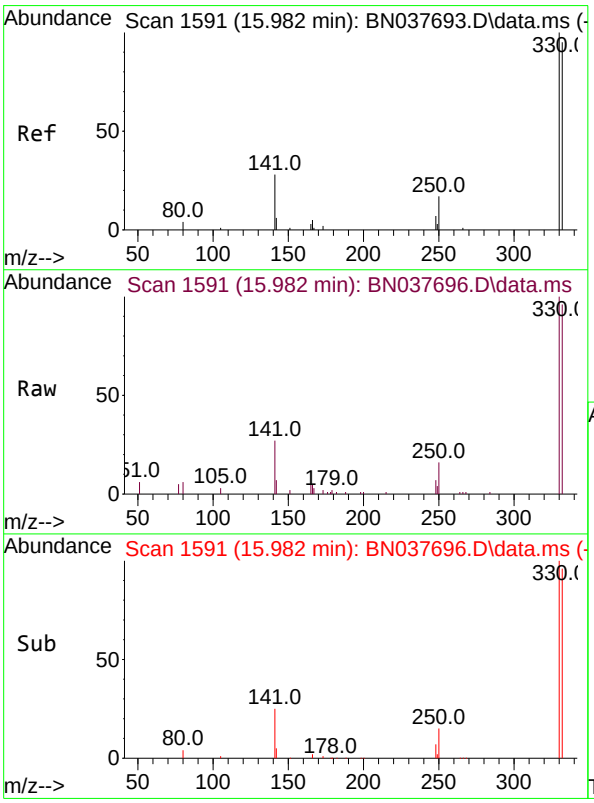
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 6550

Ion	Ratio	Lower	Upper
164	100		
162	102.0	83.1	124.7
160	53.5	44.3	66.5

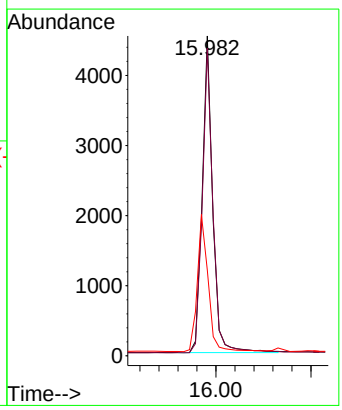


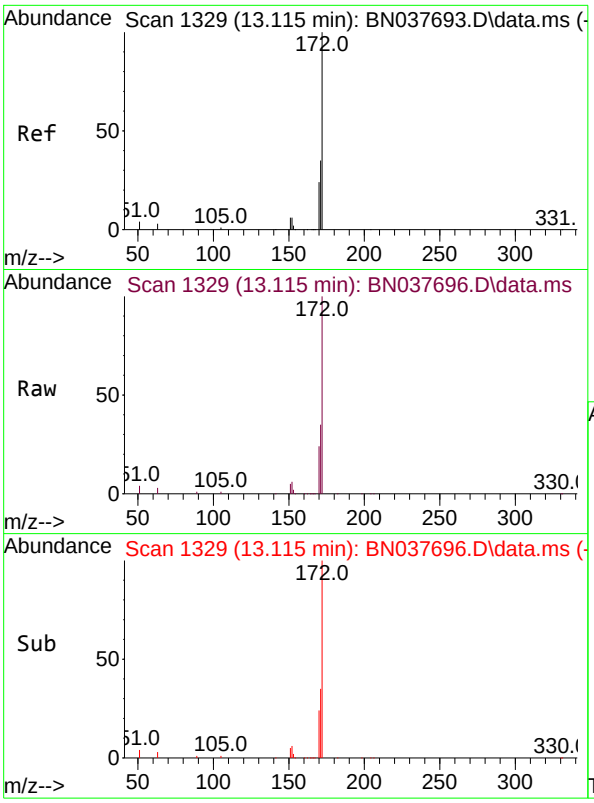


#14
2,4,6-Tribromophenol
Concen: 4.018 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:330 Resp: 6865

Ion	Ratio	Lower	Upper
330	100		
332	97.3	75.3	112.9
141	44.8	35.0	52.4



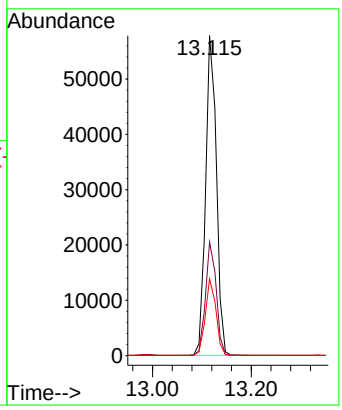


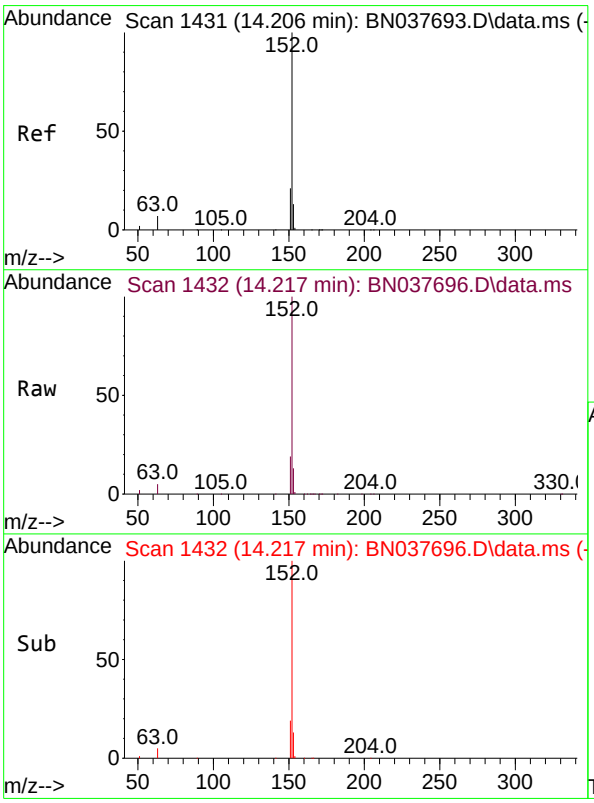
#15
2-Fluorobiphenyl
Concen: 3.202 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 87709

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	43.0
170	24.0	19.8	29.8

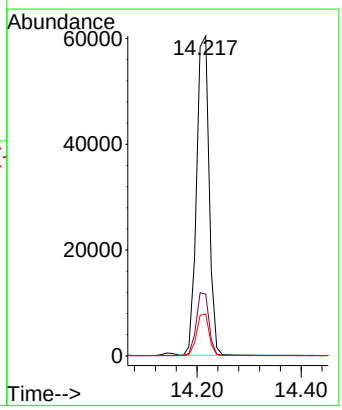


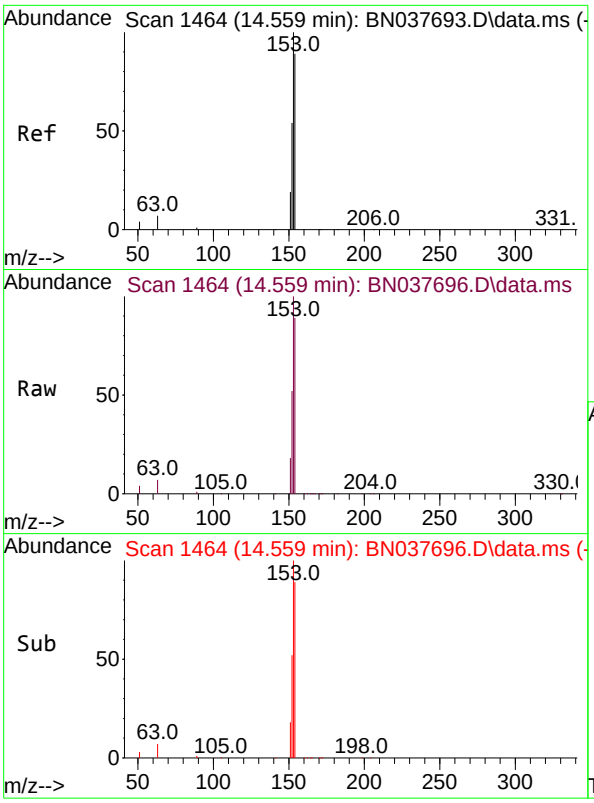


#16
Acenaphthylene
Concen: 3.342 ng
RT: 14.217 min Scan# 1432
Delta R.T. 0.011 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:152 Resp: 100382

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	13.0	10.4	15.6



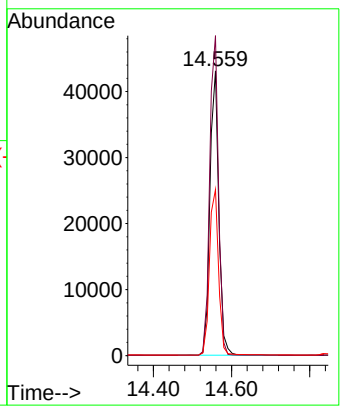


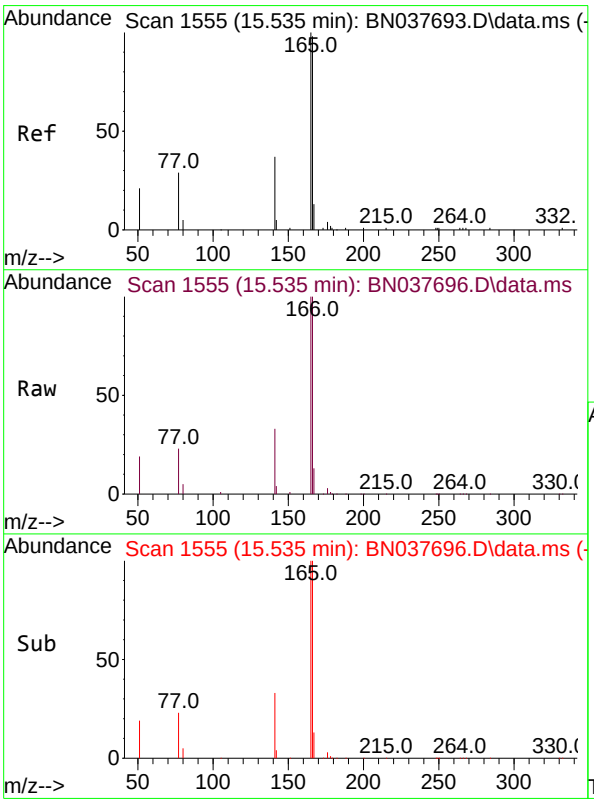
#17
Acenaphthene
Concen: 3.343 ng
RT: 14.559 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 67901

Ion	Ratio	Lower	Upper
154	100		
153	111.5	89.8	134.8
152	59.8	50.2	75.2

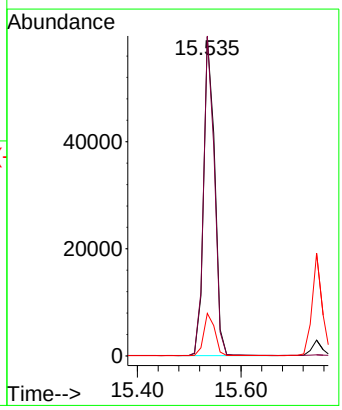


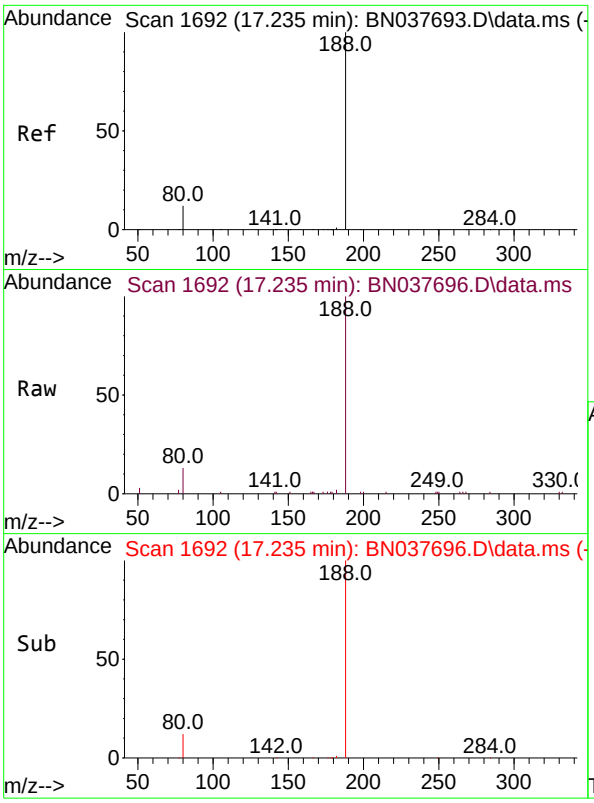


#18
Fluorene
Concen: 3.479 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:166 Resp: 85576

Ion	Ratio	Lower	Upper
166	100		
165	96.7	79.6	119.4
167	13.4	10.6	16.0



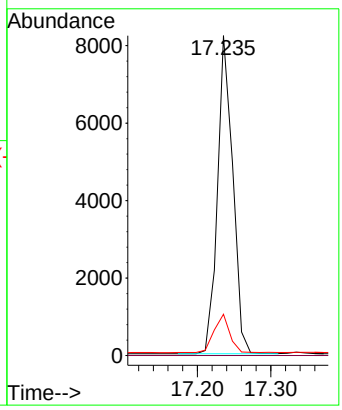


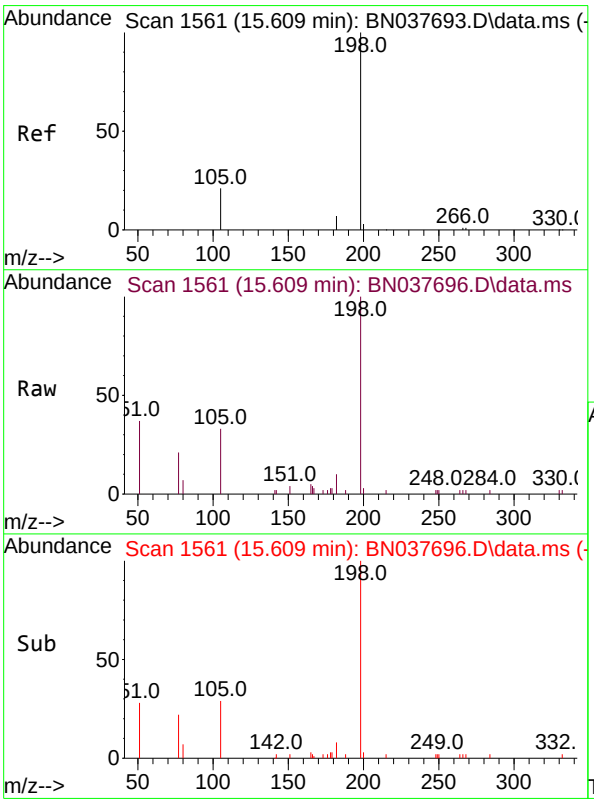
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 11925

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.9	10.6	15.8

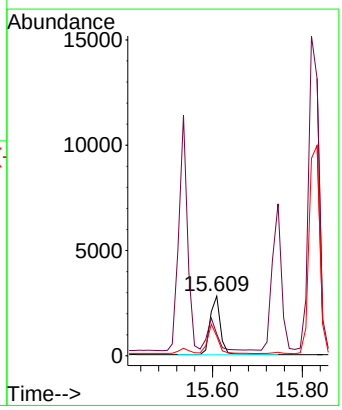


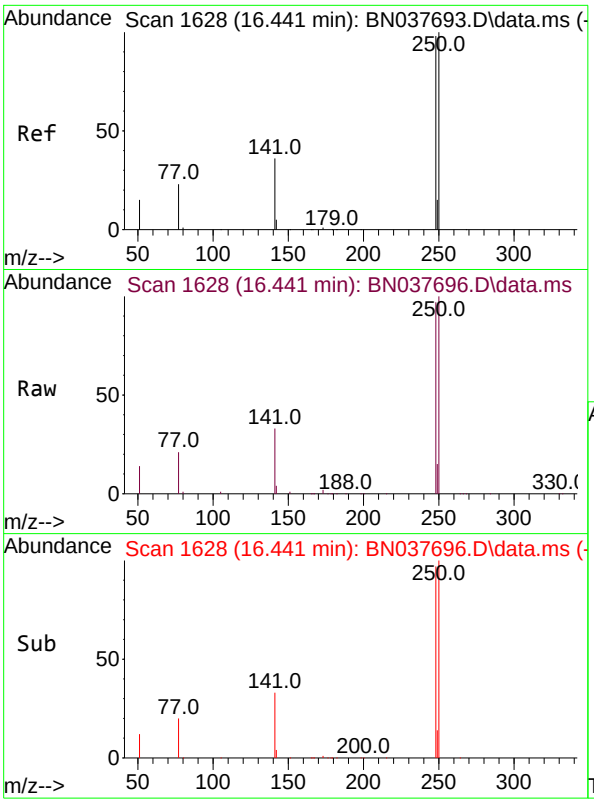


#20
4,6-Dinitro-2-methylphenol
Concen: 4.008 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:198 Resp: 4427

Ion	Ratio	Lower	Upper
198	100		
51	36.6	95.1	142.7#
105	32.9	53.8	80.6#



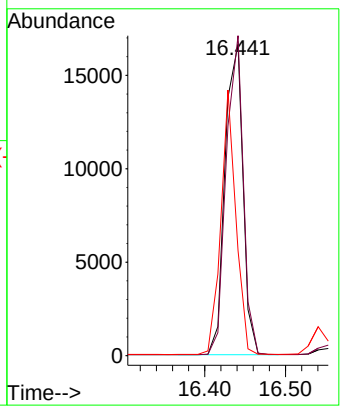


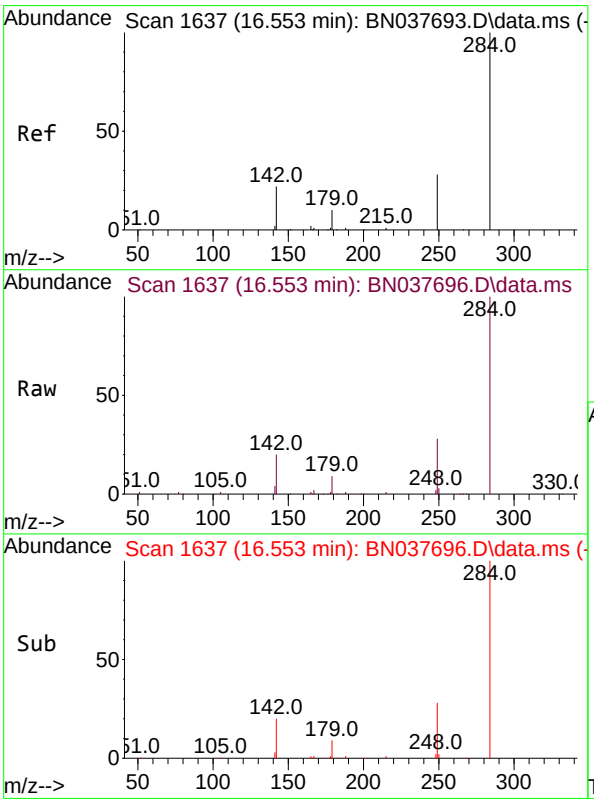
#21
4-Bromophenyl-phenylether
Concen: 3.300 ng
RT: 16.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 25659

Ion	Ratio	Lower	Upper
248	100		
250	102.8	81.5	122.3
141	33.7	30.8	46.2

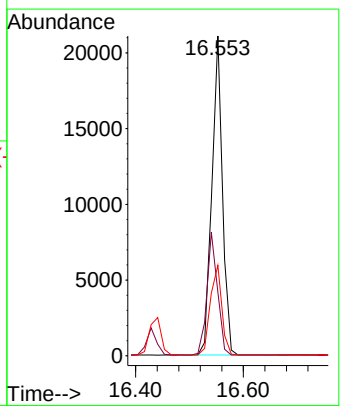


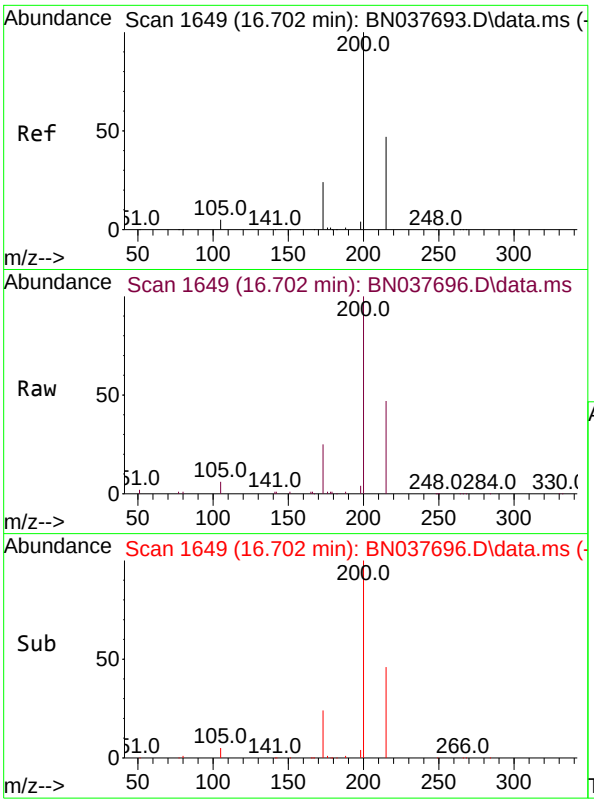


#22
Hexachlorobenzene
Concen: 3.226 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:284 Resp: 28853

Ion	Ratio	Lower	Upper
284	100		
142	38.5	30.9	46.3
249	30.4	24.8	37.2



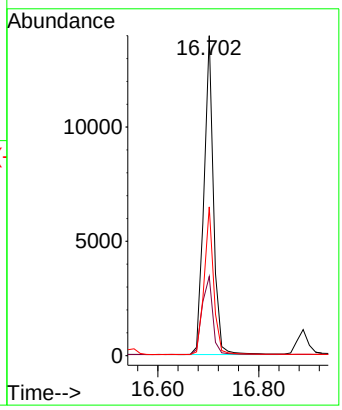


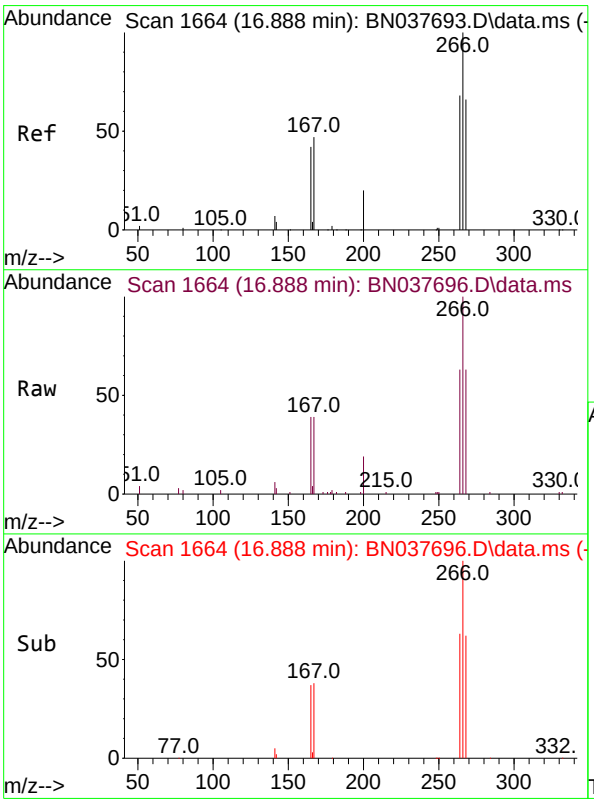
#23
Atrazine
Concen: 3.670 ng
RT: 16.702 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 18156

Ion	Ratio	Lower	Upper
200	100		
173	24.7	21.4	32.2
215	46.5	39.2	58.8

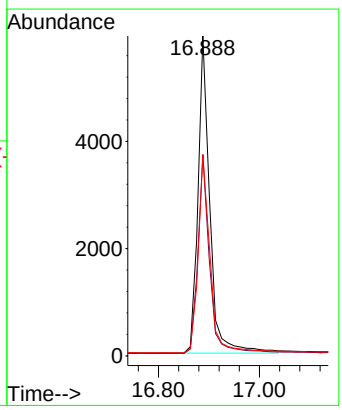


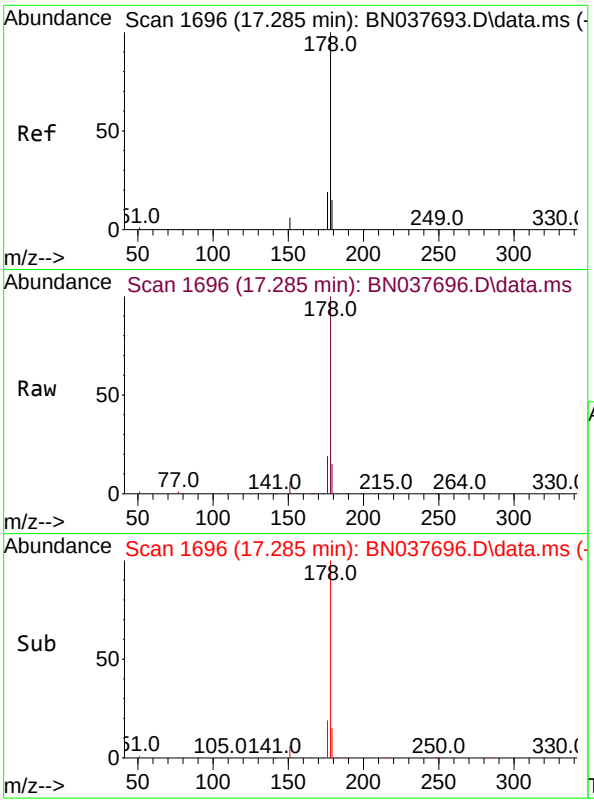


#24
Pentachlorophenol
Concen: 3.678 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:266 Resp: 9551

Ion	Ratio	Lower	Upper
266	100		
264	62.5	51.6	77.4
268	63.4	53.2	79.8



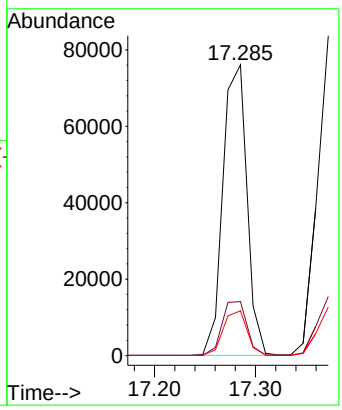


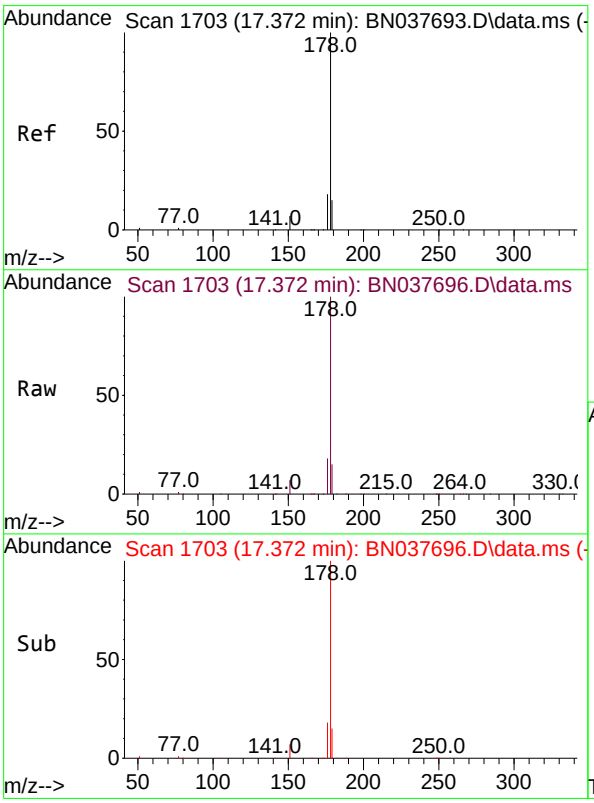
#25
Phenanthrene
Concen: 3.355 ng
RT: 17.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 125980

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.2	12.2	18.2

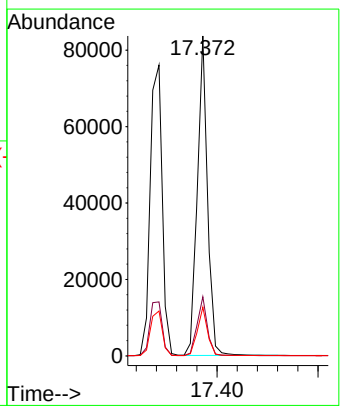


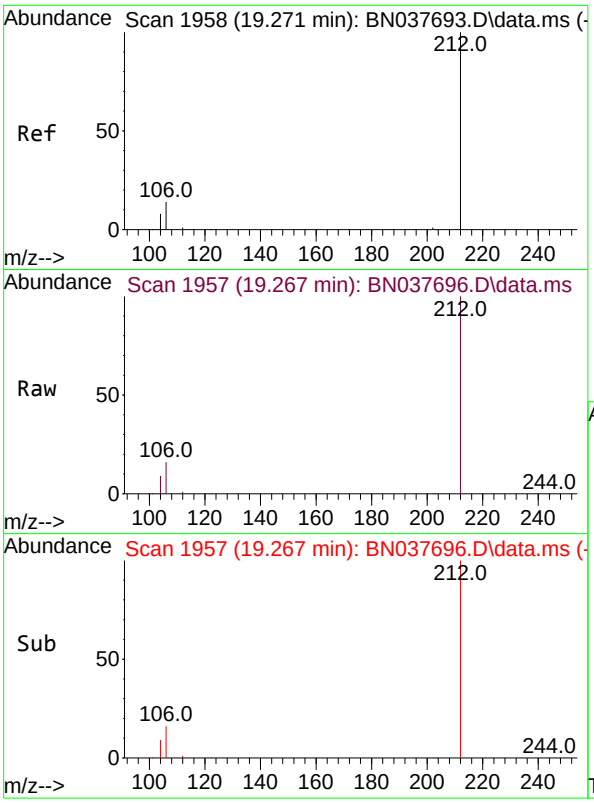


#26
Anthracene
Concen: 3.501 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:178 Resp: 116443

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	22.0
179	15.2	12.2	18.4



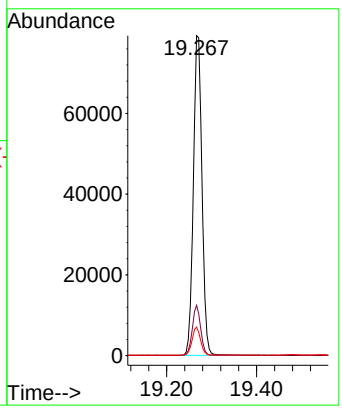


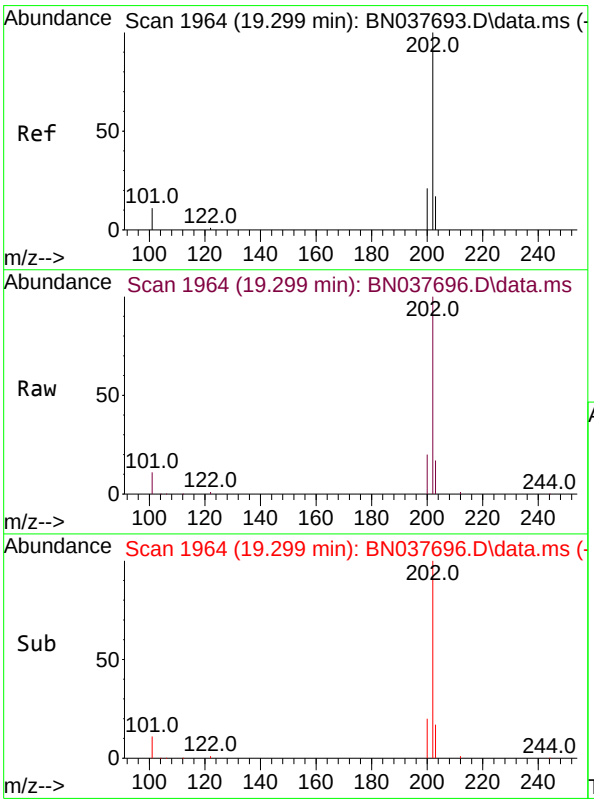
#27
Fluoranthene-d10
Concen: 3.531 ng
RT: 19.267 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 105719

Ion	Ratio	Lower	Upper
212	100		
106	15.0	12.2	18.2
104	8.5	6.9	10.3

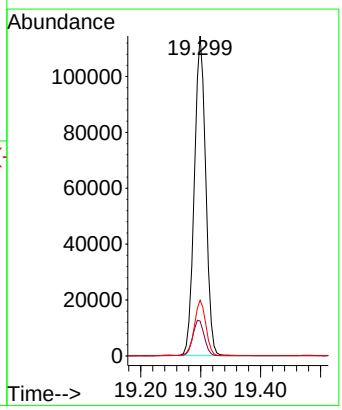


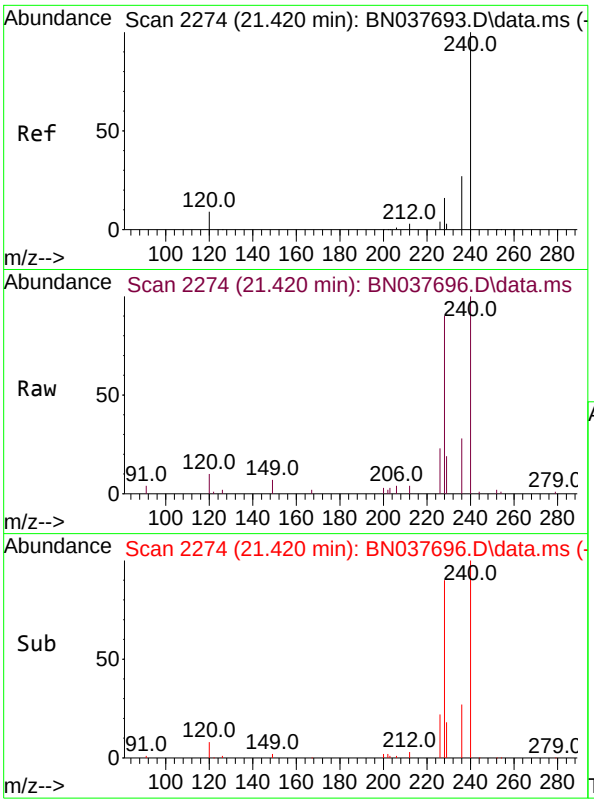


#28
Fluoranthene
Concen: 3.657 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:202 Resp: 150569

Ion	Ratio	Lower	Upper
202	100		
101	11.5	9.3	13.9
203	17.3	13.7	20.5



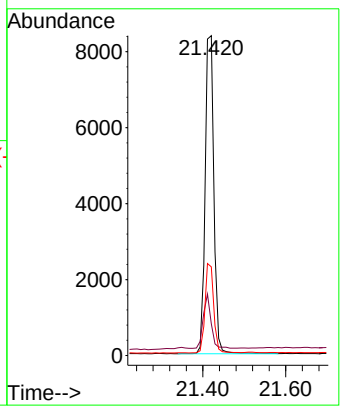


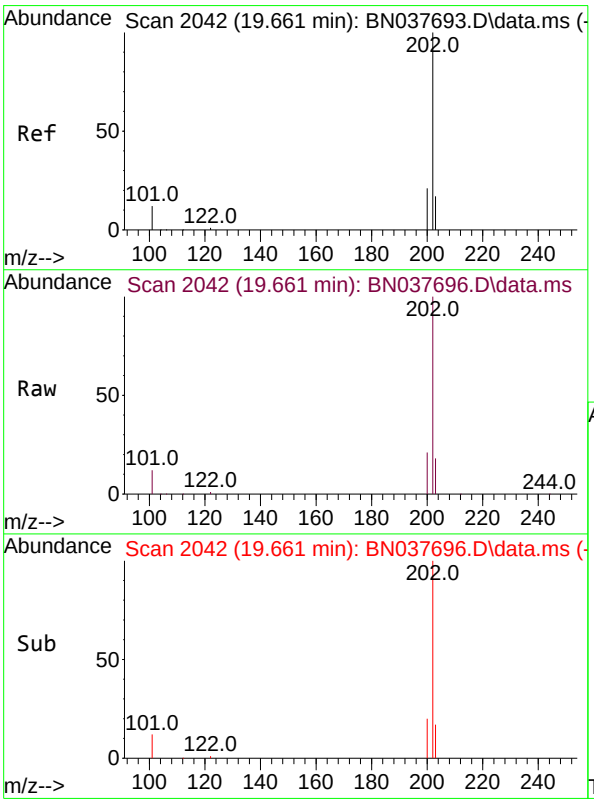
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 12141

Ion	Ratio	Lower	Upper
240	100		
120	9.9	9.2	13.8
236	27.7	22.6	33.8

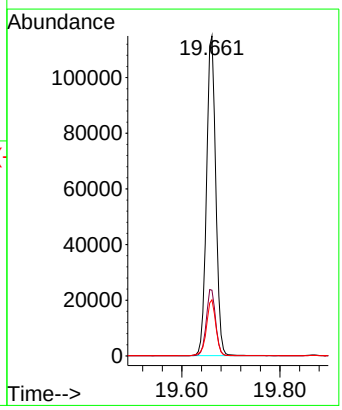


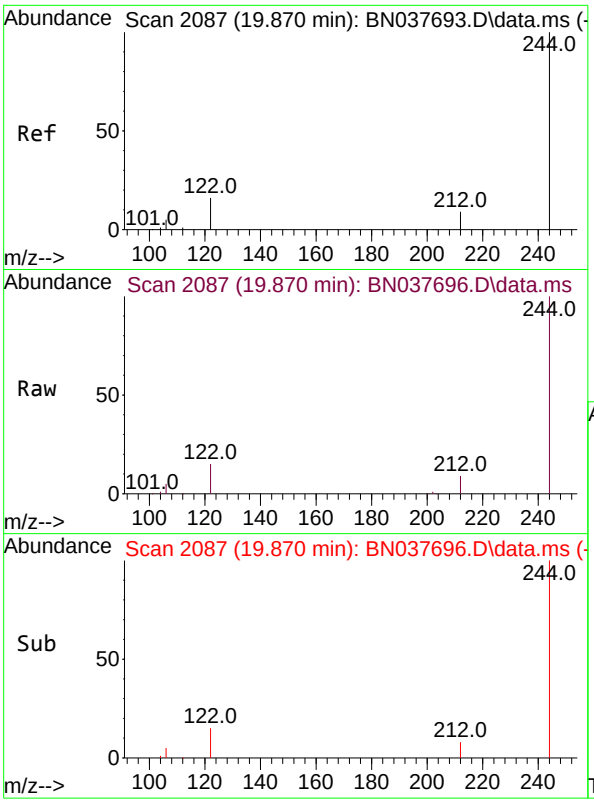


#30
Pyrene
Concen: 3.152 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:202 Resp: 149814

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.7	14.3	21.5



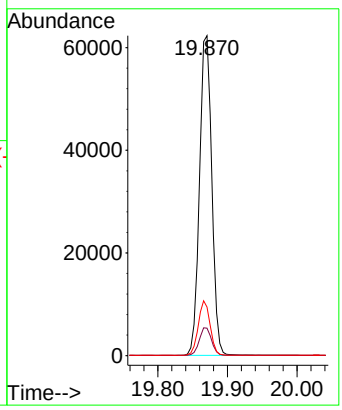


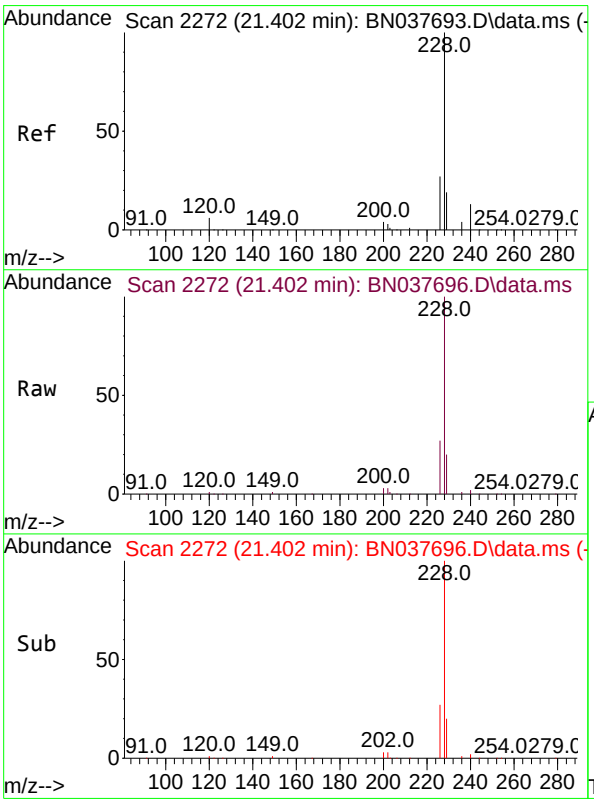
#31
Terphenyl-d14
Concen: 3.090 ng
RT: 19.870 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 76156

Ion	Ratio	Lower	Upper
244	100		
212	8.6	7.5	11.3
122	15.2	13.2	19.8

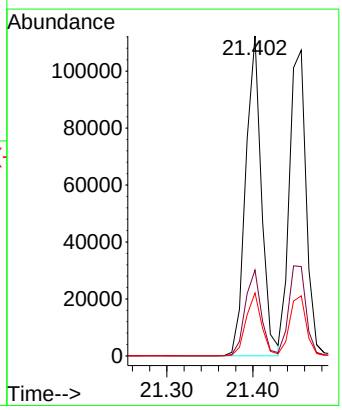


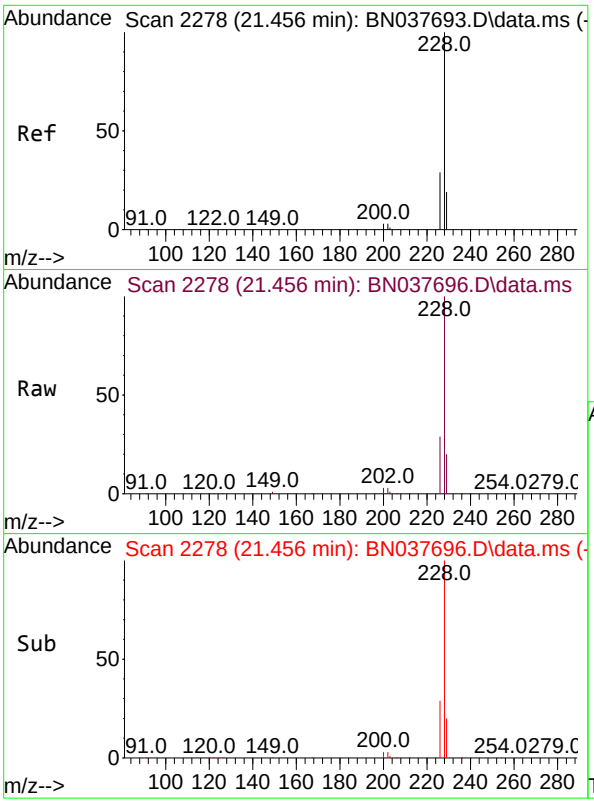


#32
Benzo(a)anthracene
Concen: 3.347 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:228 Resp: 141736

Ion	Ratio	Lower	Upper
228	100		
226	26.8	22.2	33.2
229	19.7	15.8	23.6



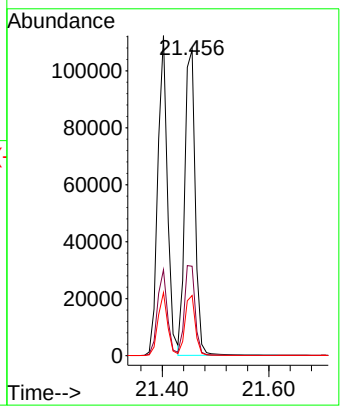


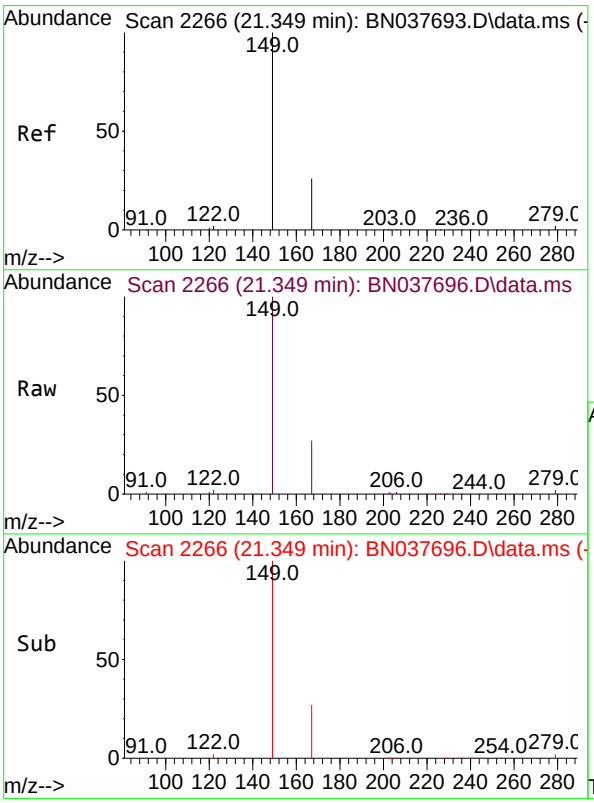
#33
Chrysene
Concen: 3.221 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 146238

Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.5	35.3
229	19.7	15.9	23.9

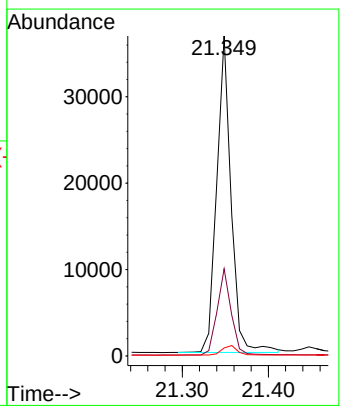


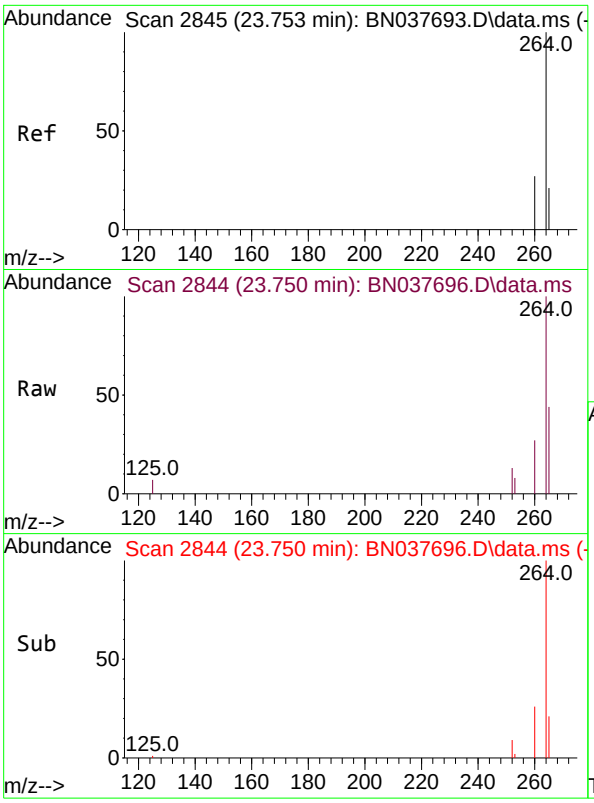


#34
Bis(2-ethylhexyl)phthalate
Concen: 3.385 ng
RT: 21.349 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:149 Resp: 42504

Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.8	31.2
279	3.1	3.3	4.9#



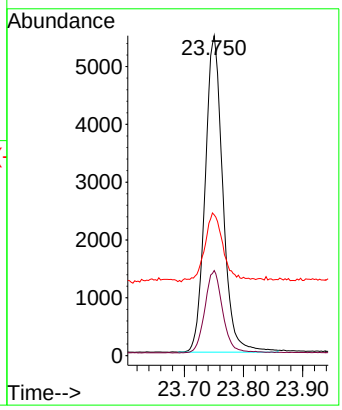


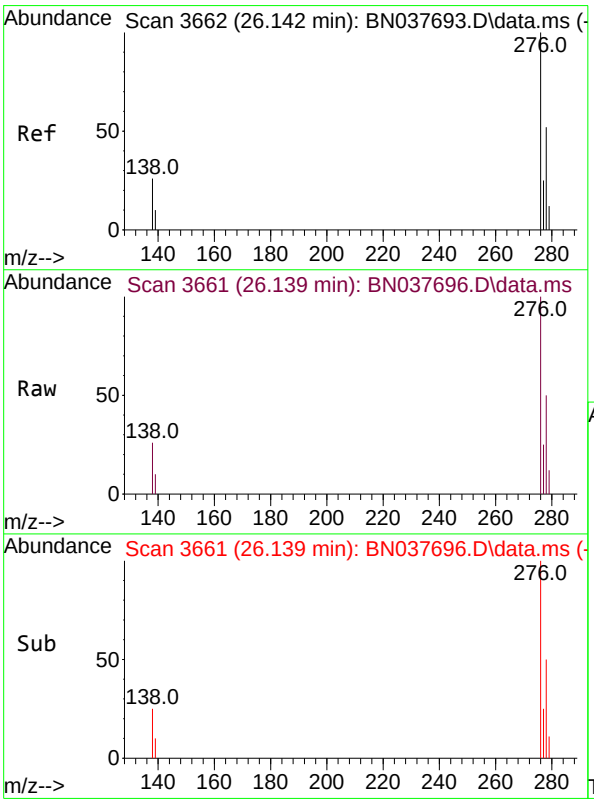
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 28
Delta R.T. -0.003 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 11403

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.8	32.8
265	44.0	39.4	59.2

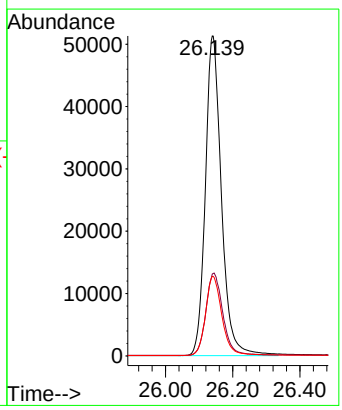


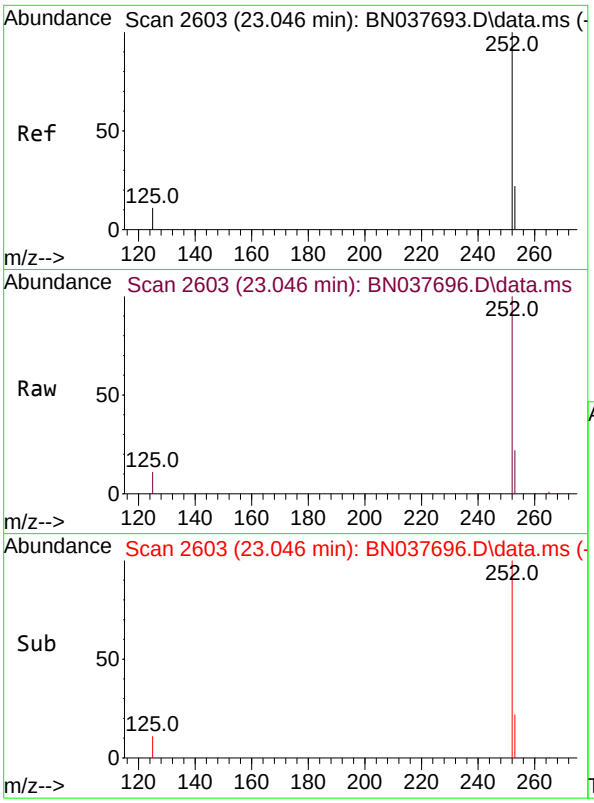


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.551 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.003 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:276 Resp: 170120

Ion	Ratio	Lower	Upper
276	100		
138	27.3	21.9	32.9
277	25.3	20.1	30.1



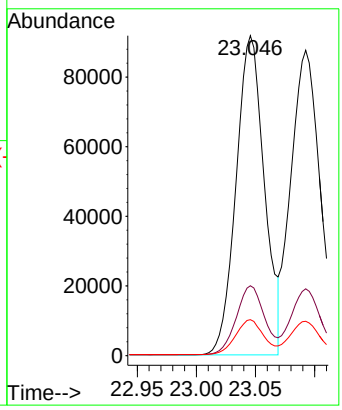


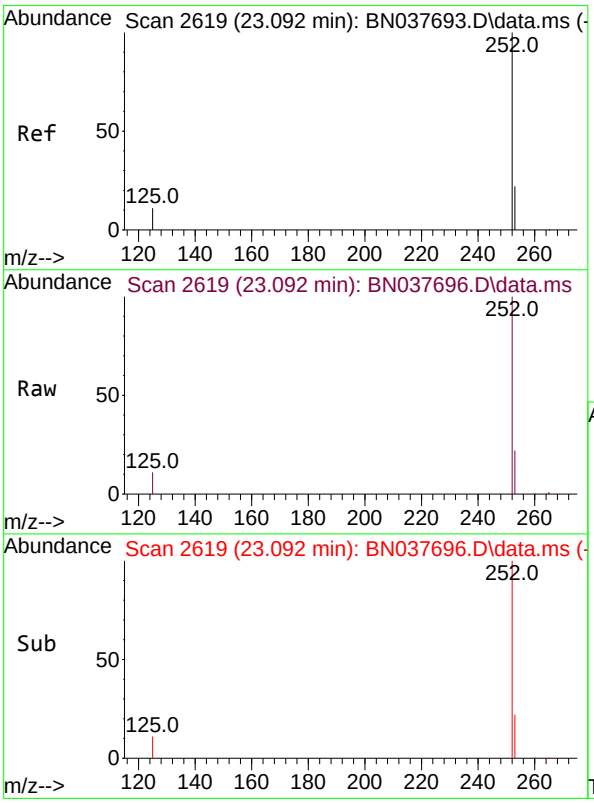
#37
Benzo(b)fluoranthene
Concen: 3.401 ng
RT: 23.046 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 152726

Ion	Ratio	Lower	Upper
252	100		
253	21.8	19.4	29.2
125	11.2	11.2	16.8

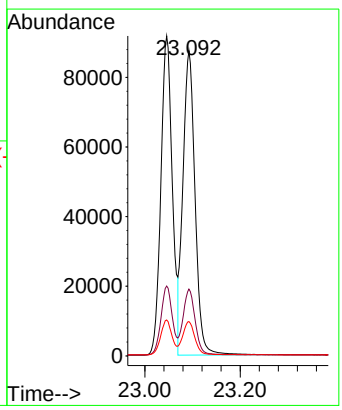


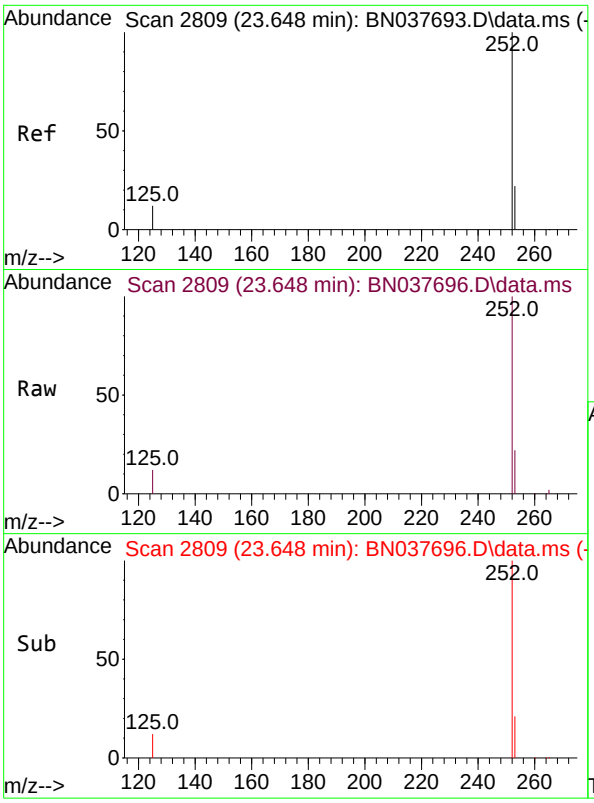


#38
Benzo(k)fluoranthene
Concen: 3.378 ng
RT: 23.092 min Scan# 2619
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:252 Resp: 154690

Ion	Ratio	Lower	Upper
252	100		
253	21.9	19.4	29.0
125	11.3	11.6	17.4#



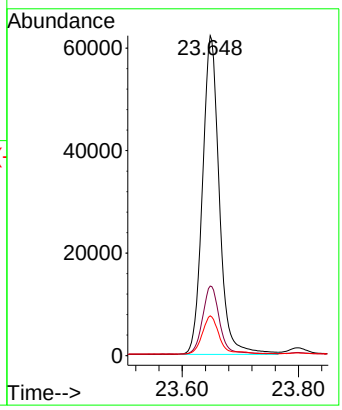


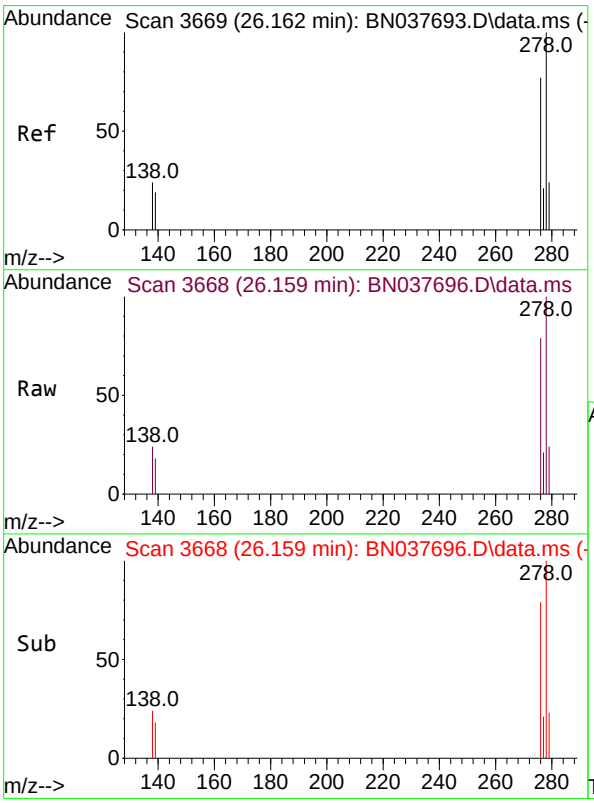
#39
Benzo(a)pyrene
Concen: 3.469 ng
RT: 23.648 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 124741

Ion	Ratio	Lower	Upper
252	100		
253	21.7	20.8	31.2
125	12.4	13.9	20.9#

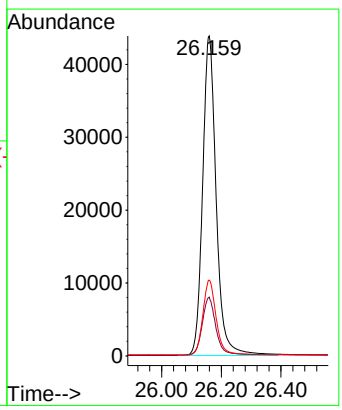


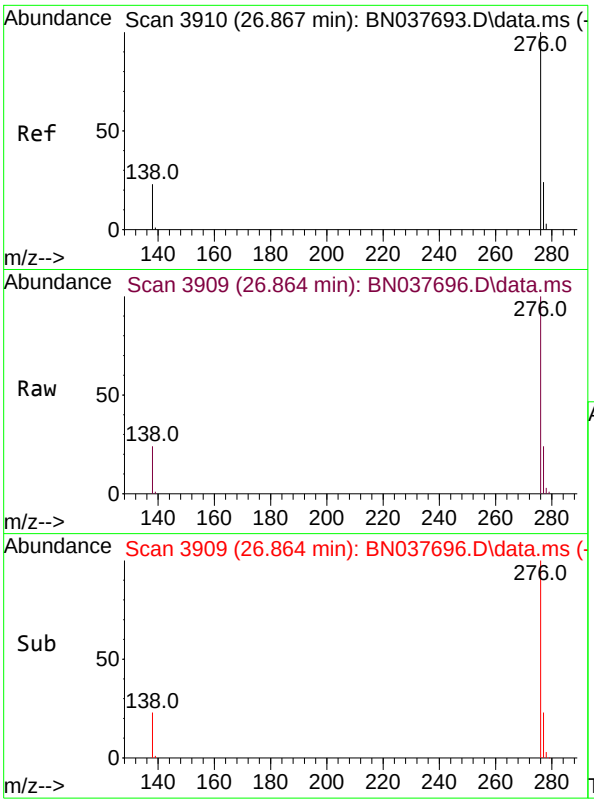


#40
Dibenzo(a,h)anthracene
Concen: 3.623 ng
RT: 26.159 min Scan# 3668
Delta R.T. -0.003 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:278 Resp: 138597

Ion	Ratio	Lower	Upper
278	100		
139	18.4	17.8	26.6
279	23.7	22.0	33.0



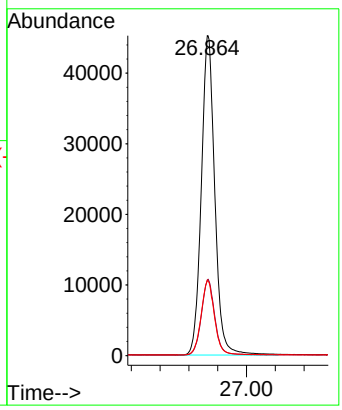


#41
Benzo(g,h,i)perylene
Concen: 3.415 ng
RT: 26.864 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 146601

Ion	Ratio	Lower	Upper
276	100		
277	23.6	20.6	31.0
138	23.6	20.2	30.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037697.D
Acq On : 11 Sep 2025 13:33
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Sep 11 14:07:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.840	152	5654	0.400	ng		0.00
7) Naphthalene-d8	10.648	136	14362	0.400	ng		0.00
13) Acenaphthene-d10	14.495	164	7056	0.400	ng		0.00
19) Phenanthrene-d10	17.235	188	12767	0.400	ng		0.00
29) Chrysene-d12	21.420	240	13060	0.400	ng		0.00
35) Perylene-d12	23.753	264	12009	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.399	112	70949	5.466	ng		0.00
5) Phenol-d6	6.988	99	91084	5.412	ng		0.00
8) Nitrobenzene-d5	8.993	82	58397	5.559	ng		0.00
11) 2-Methylnaphthalene-d10	12.243	152	119992	6.306	ng		0.00
14) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng		
15) 2-Fluorobiphenyl	13.115	172	157398	5.334	ng		0.00
27) Fluoranthene-d10	19.271	212	215419	6.721	ng		0.00
31) Terphenyl-d14	19.870	244	145595	5.493	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.304	88	27447	4.661	ng		97
3) n-Nitrosodimethylamine	3.601	42	38960	5.064	ng	#	93
6) bis(2-Chloroethyl)ether	7.255	93	75108	4.995	ng		100
9) Naphthalene	10.690	128	206218	5.253	ng		99
10) Hexachlorobutadiene	11.000	225	36218	5.099	ng	#	100
12) 2-Methylnaphthalene	12.314	142	132802	5.469	ng		99
16) Acenaphthylene	14.217	152	178140	5.505	ng		100
17) Acenaphthene	14.559	154	118915	5.435	ng		97
18) Fluorene	15.535	166	147419	5.563	ng		99
21) 4-Bromophenyl-phenylether	16.441	248	45357	5.448	ng		98
22) Hexachlorobenzene	16.553	284	49411	5.160	ng		99
23) Atrazine	16.702	200	33341	6.295	ng		96
24) Pentachlorophenol	16.888	266	18297	6.581	ng		97
25) Phenanthrene	17.285	178	218722	5.441	ng		100
26) Anthracene	17.372	178	204421	5.741	ng		100
28) Fluoranthene	19.299	202	261250	5.926	ng		99
30) Pyrene	19.661	202	259551	5.077	ng		100
32) Benzo(a)anthracene	21.402	228	248434	5.454	ng		99
33) Chrysene	21.456	228	251956	5.158	ng		100
34) Bis(2-ethylhexyl)phtha...	21.349	149	82262	6.091	ng	#	99
36) Indeno(1,2,3-cd)pyrene	26.145	276	303960	6.024	ng		99
37) Benzo(b)fluoranthene	23.049	252	266973	5.645	ng	#	94
38) Benzo(k)fluoranthene	23.093	252	263641	5.466	ng	#	94
39) Benzo(a)pyrene	23.651	252	220208	5.816	ng	#	90
40) Dibenzo(a,h)anthracene	26.162	278	245606	6.096	ng	#	91
41) Benzo(g,h,i)perylene	26.867	276	258594	5.720	ng		95

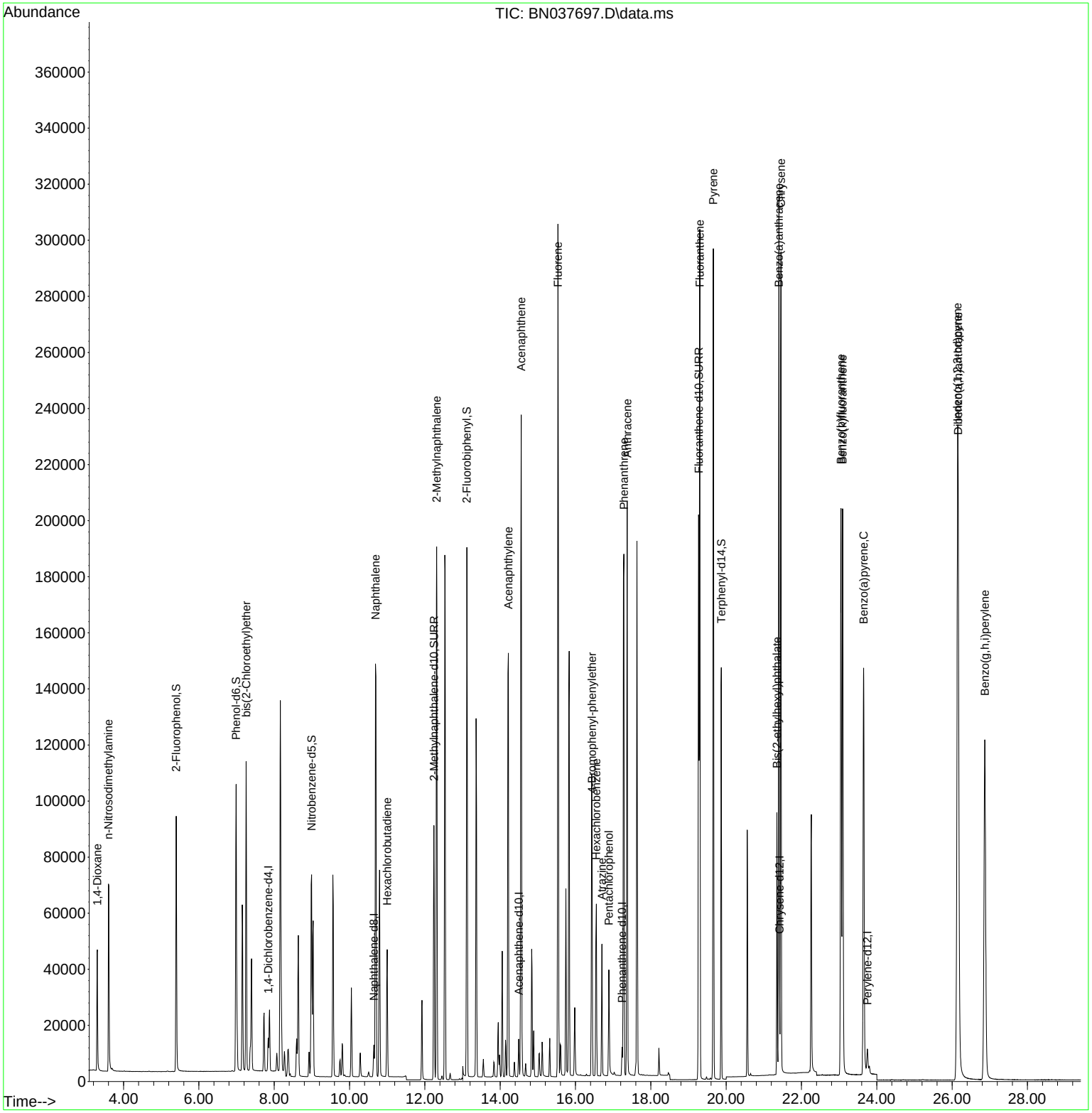
(#) = qualifier out of range (m) = manual integration (+) = signals summed

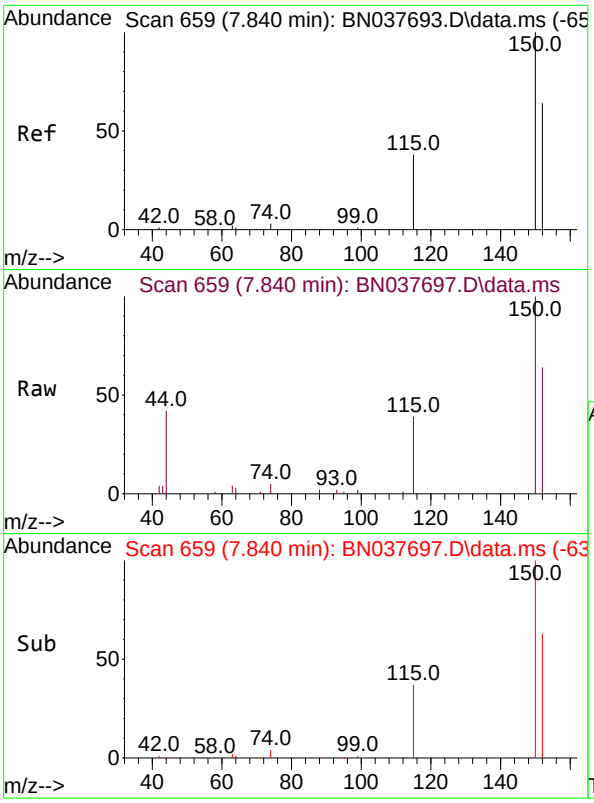
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037697.D
Acq On : 11 Sep 2025 13:33
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Sep 11 14:07:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



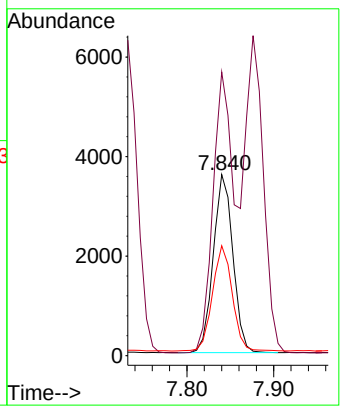


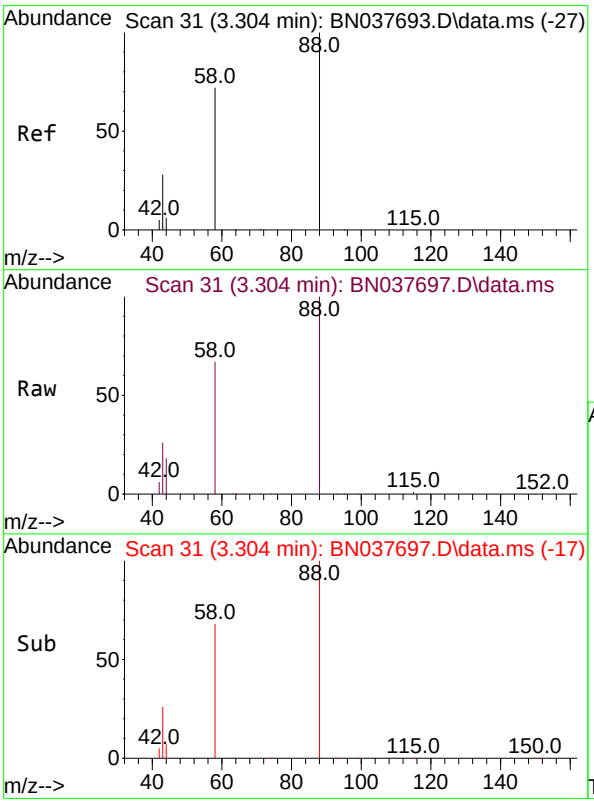
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 5654

Ion	Ratio	Lower	Upper
152	100		
150	156.6	124.5	186.7
115	60.7	49.2	73.8

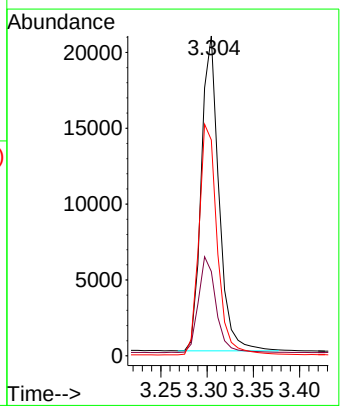


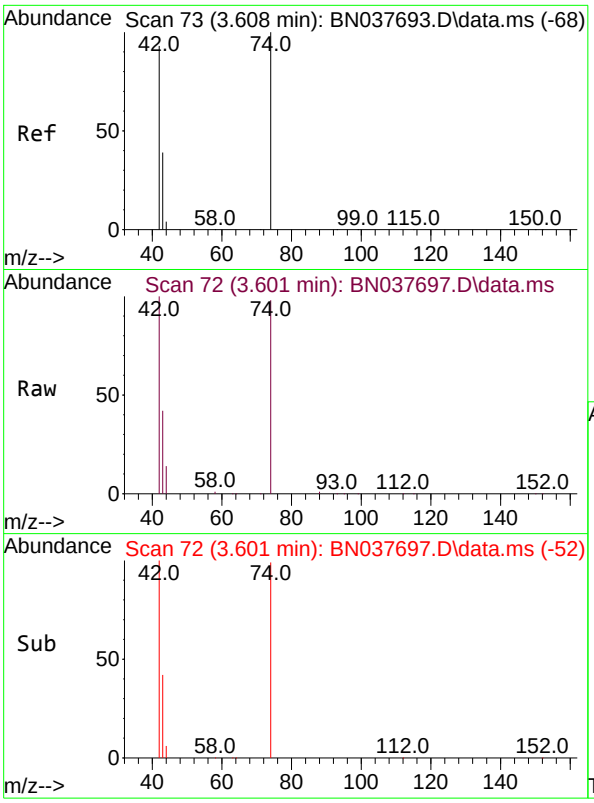


#2
1,4-Dioxane
Concen: 4.661 ng
RT: 3.304 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion: 88 Resp: 27447

Ion	Ratio	Lower	Upper
88	100		
43	30.7	26.8	40.2
58	76.0	61.9	92.9



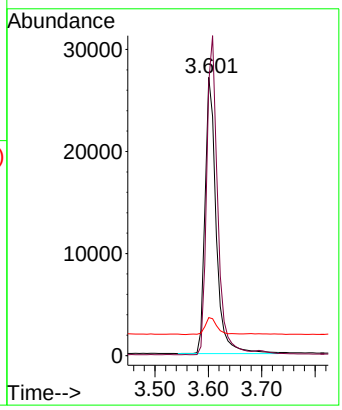


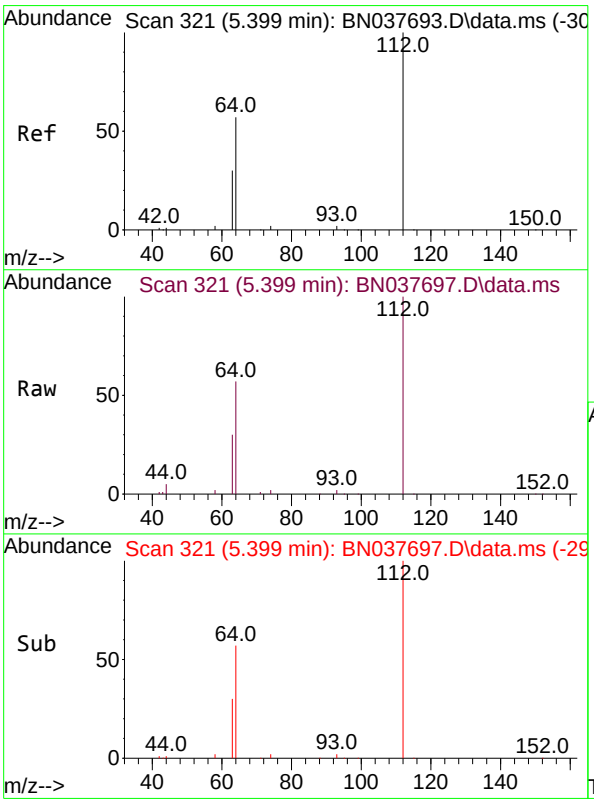
#3
n-Nitrosodimethylamine
Concen: 5.064 ng
RT: 3.601 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 38960

Ion	Ratio	Lower	Upper
42	100		
74	114.1	86.0	129.0
44	6.6	8.4	12.6#

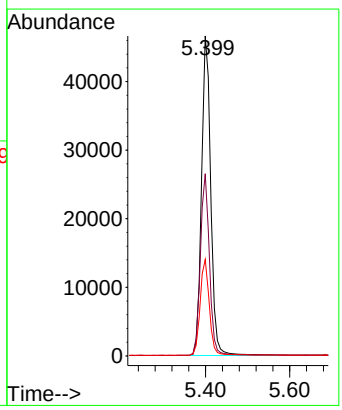


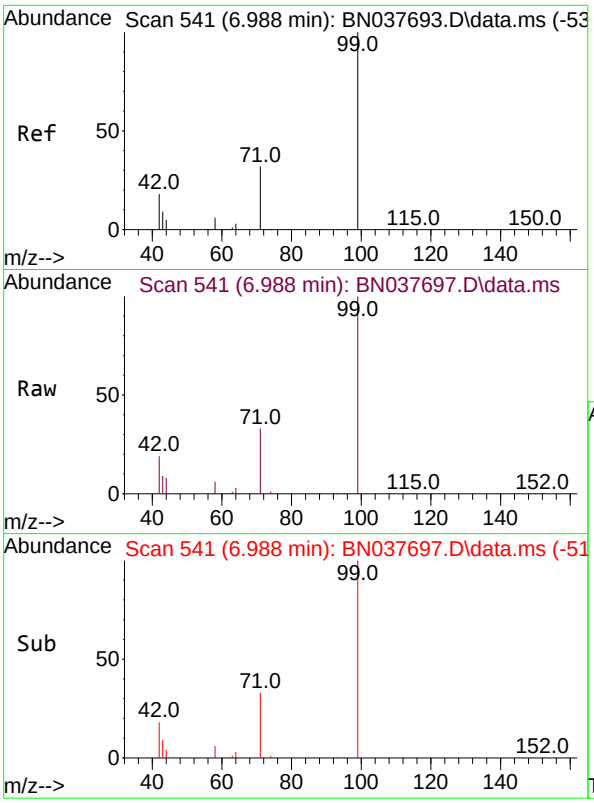


#4
2-Fluorophenol
Concen: 5.466 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:112 Resp: 70949

Ion	Ratio	Lower	Upper
112	100		
64	56.2	44.9	67.3
63	30.0	24.7	37.1



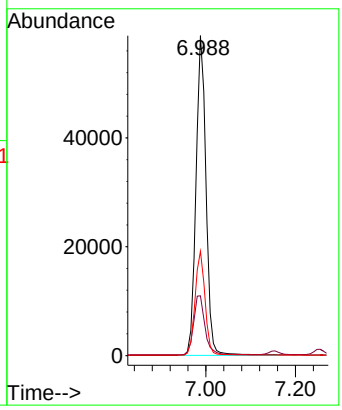


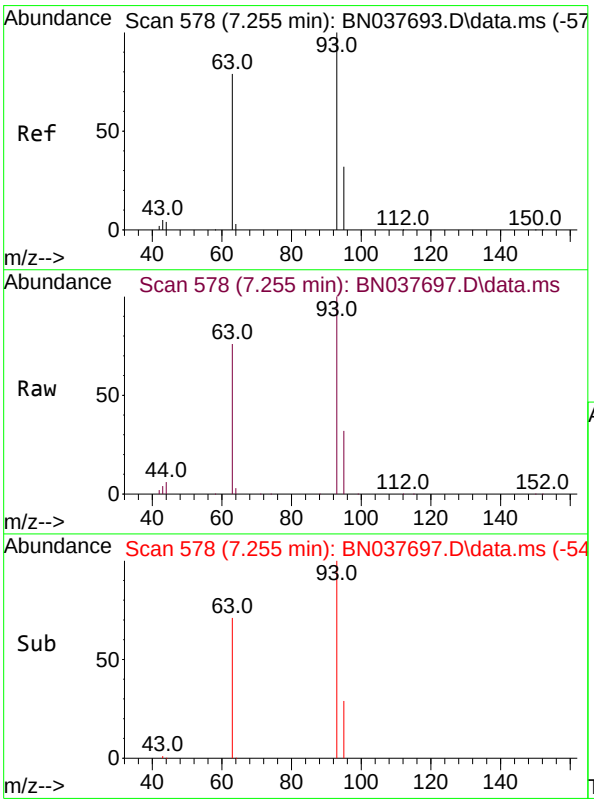
#5
Phenol-d6
Concen: 5.412 ng
RT: 6.988 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 91084

Ion	Ratio	Lower	Upper
99	100		
42	20.8	16.6	24.8
71	32.6	26.7	40.1

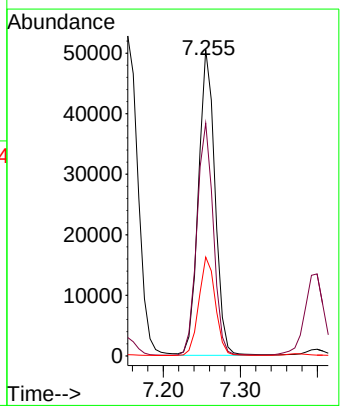


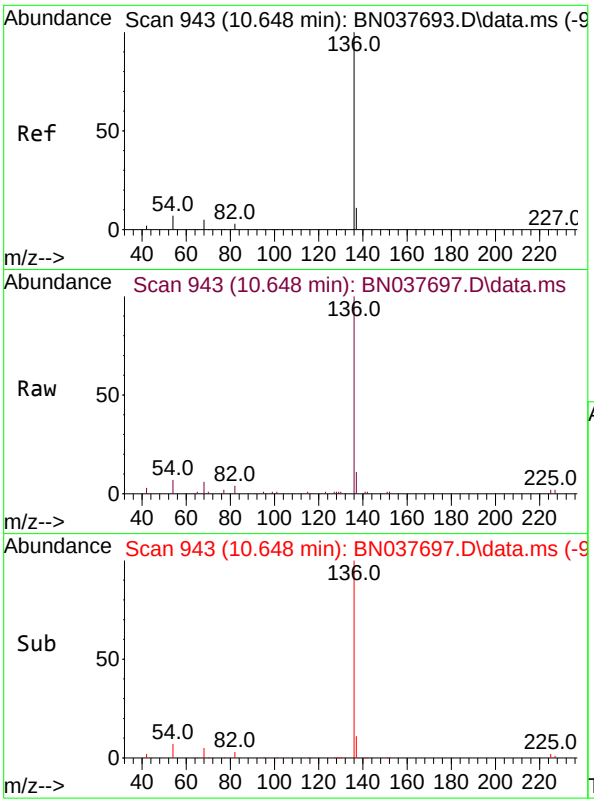


#6
bis(2-Chloroethyl)ether
Concen: 4.995 ng
RT: 7.255 min Scan# 578
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion: 93 Resp: 75108

Ion	Ratio	Lower	Upper
93	100		
63	75.4	60.6	90.8
95	32.1	26.0	39.0



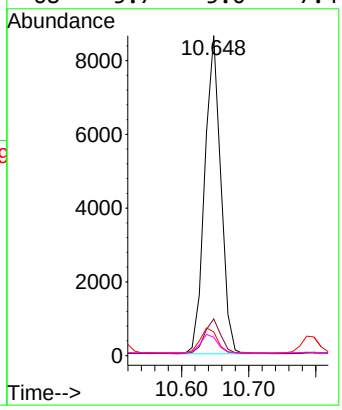


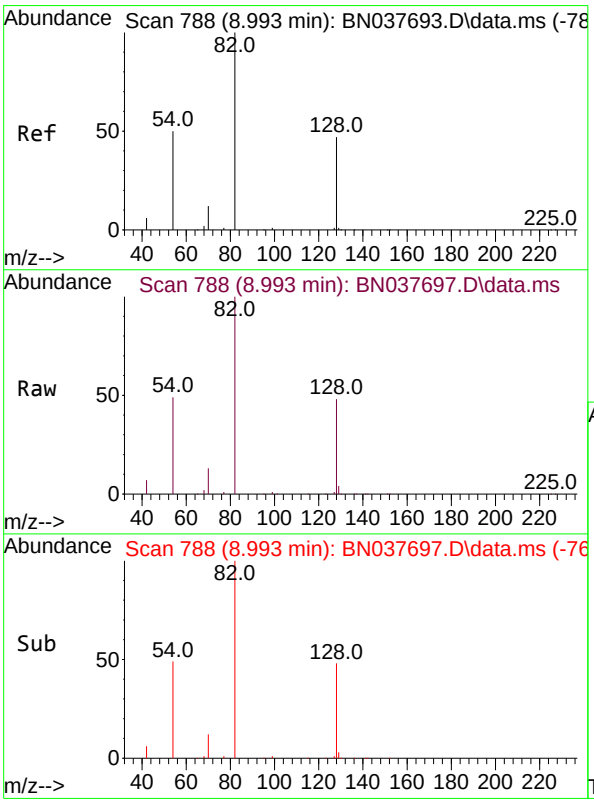
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 14362

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	7.4	6.3	9.5
68	5.7	5.0	7.4

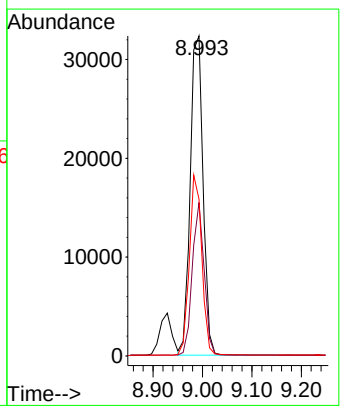


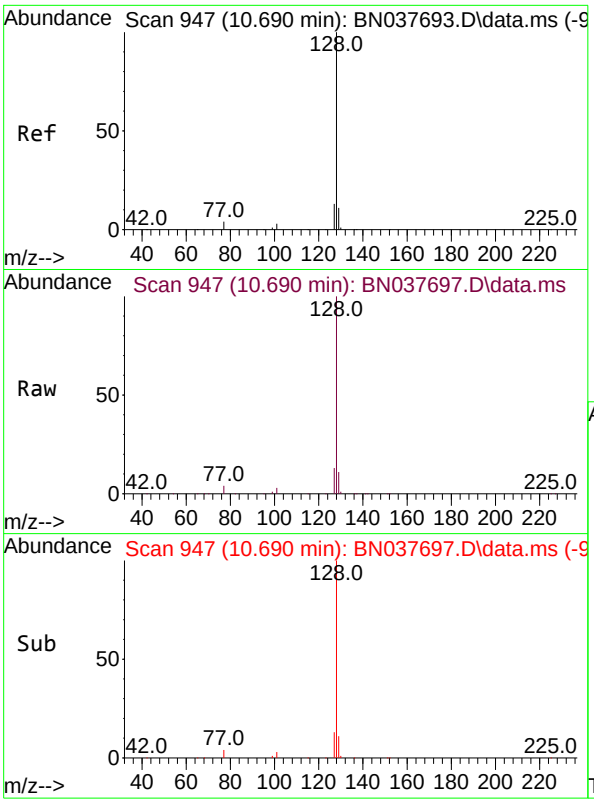


#8
Nitrobenzene-d5
Concen: 5.559 ng
RT: 8.993 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion: 82 Resp: 58397

Ion	Ratio	Lower	Upper
82	100		
128	47.9	38.3	57.5
54	49.0	41.4	62.2



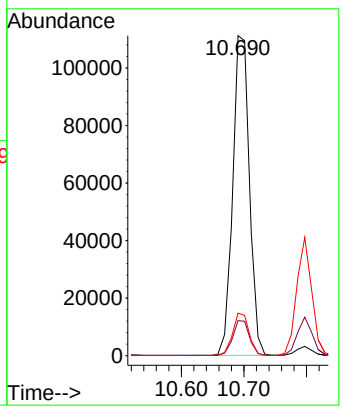


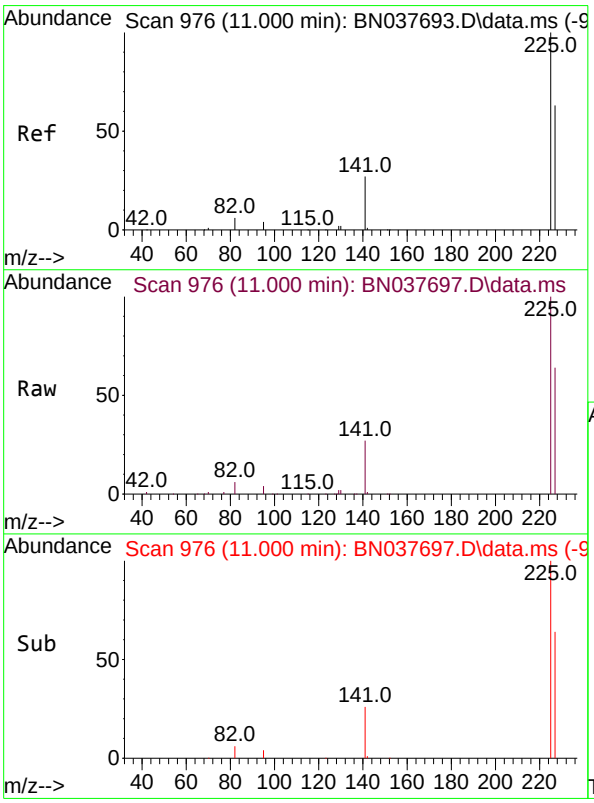
#9
Naphthalene
Concen: 5.253 ng
RT: 10.690 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 206218

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.1	13.7
127	13.3	10.9	16.3

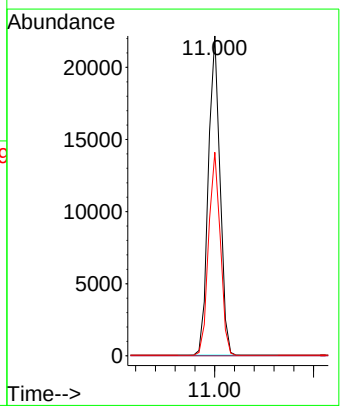


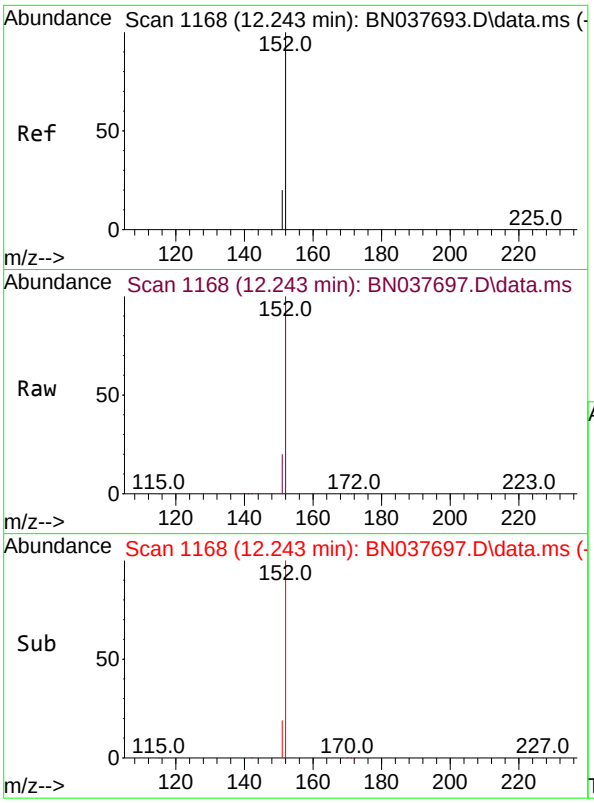


#10
Hexachlorobutadiene
Concen: 5.099 ng
RT: 11.000 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:225 Resp: 36218

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	50.9	76.3



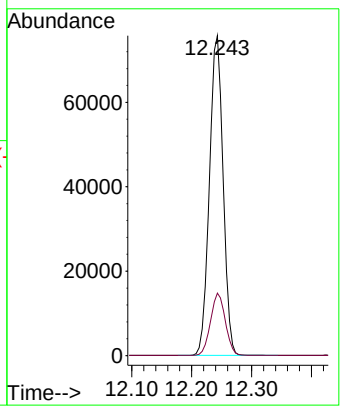


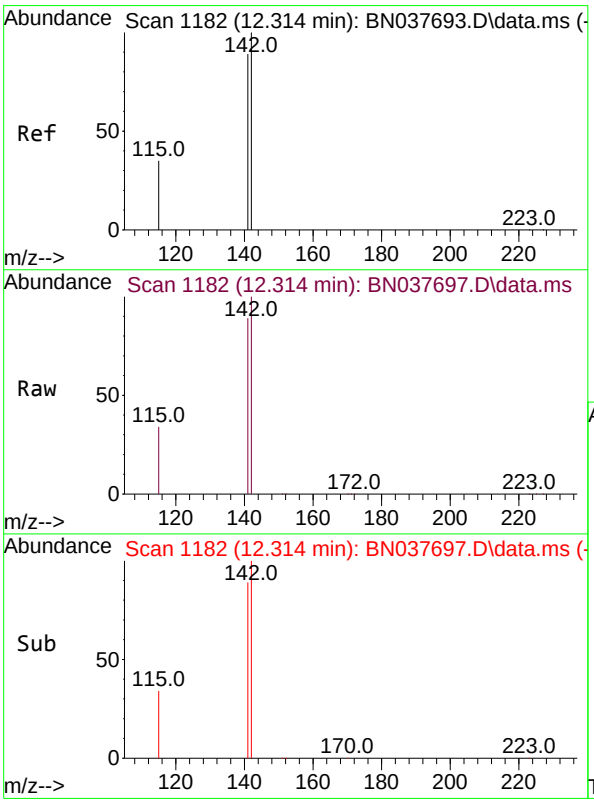
#11
2-Methylnaphthalene-d10
Concen: 6.306 ng
RT: 12.243 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 119992

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6

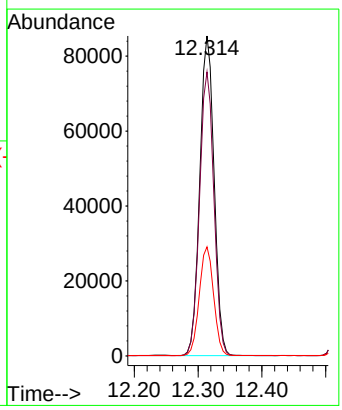


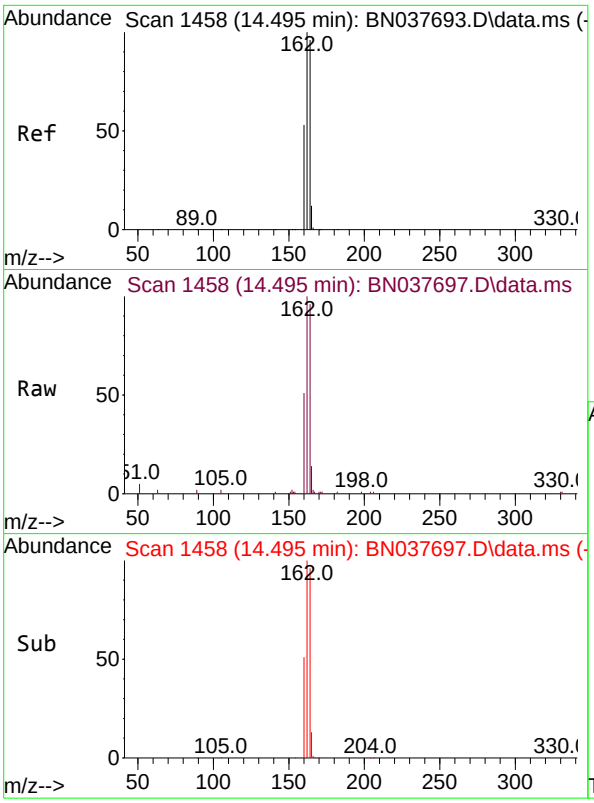


#12
2-Methylnaphthalene
Concen: 5.469 ng
RT: 12.314 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:142 Resp: 132802

Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.6	107.4
115	34.1	28.6	43.0



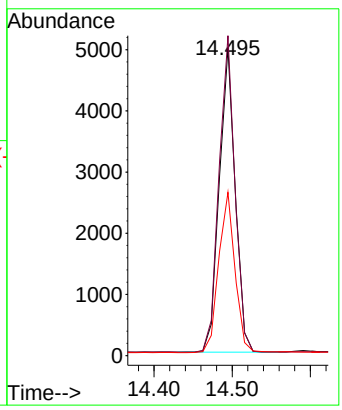


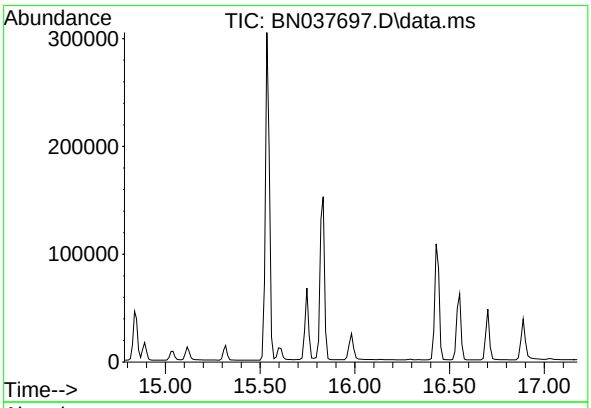
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 7056

Ion	Ratio	Lower	Upper
164	100		
162	104.0	83.1	124.7
160	53.1	44.3	66.5



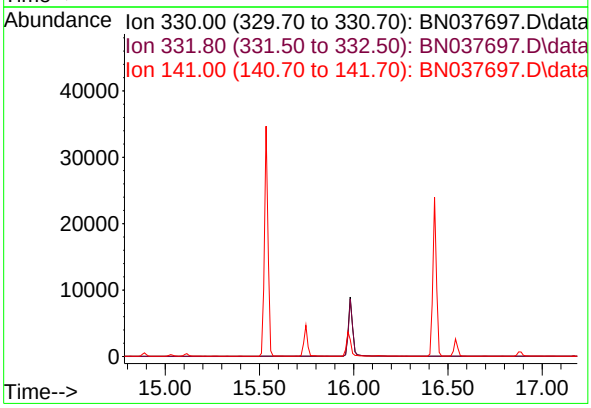


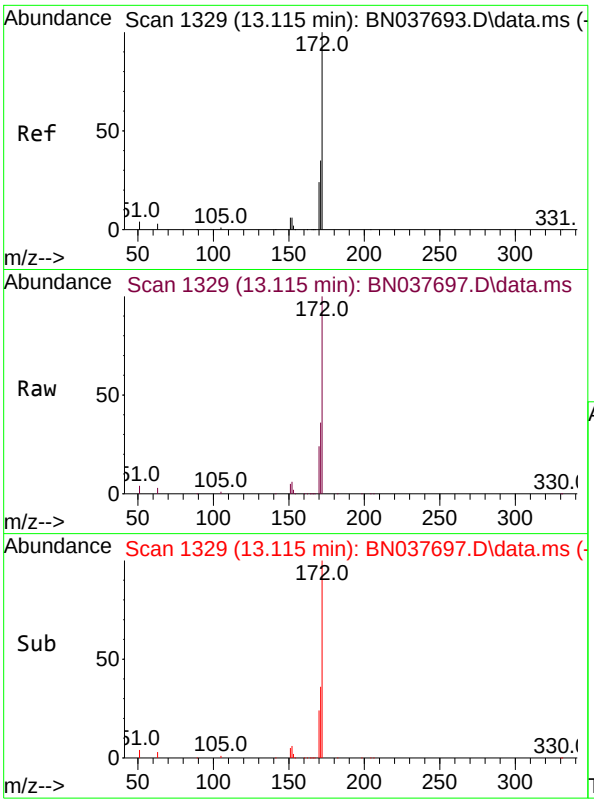
#14
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.98 min

Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	94.1
141	43.7



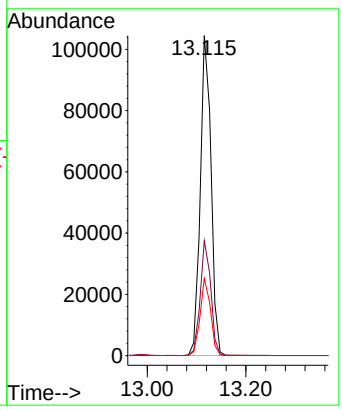


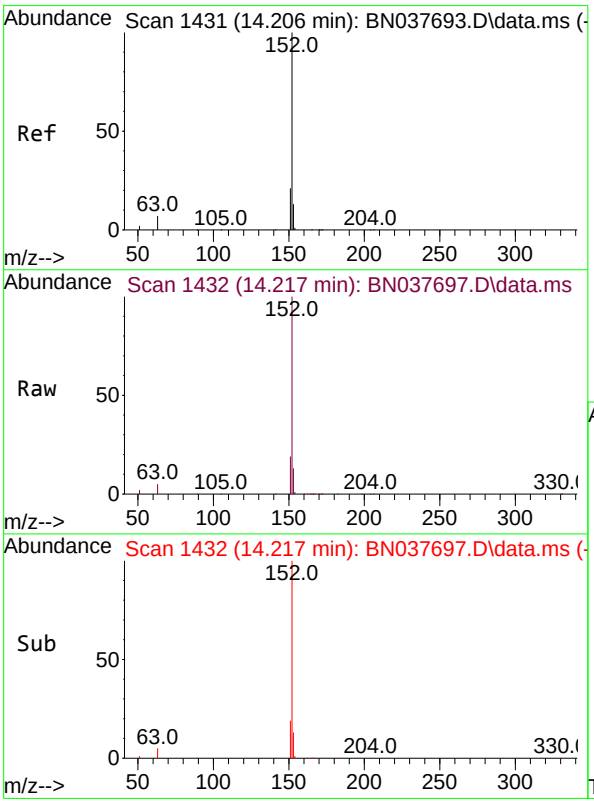
#15
2-Fluorobiphenyl
Concen: 5.334 ng
RT: 13.115 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 157398

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	24.1	19.8	29.8

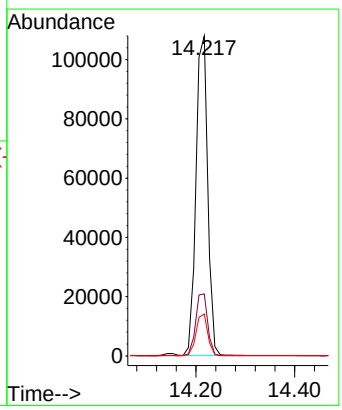


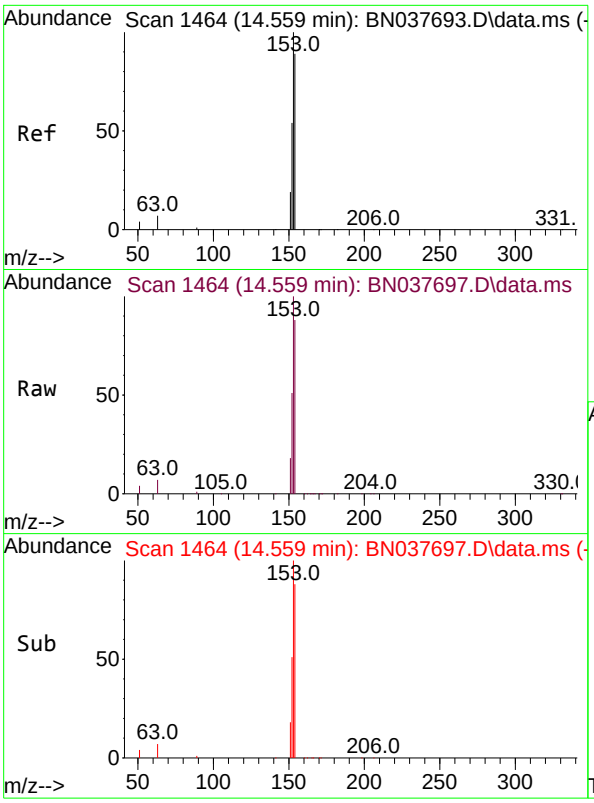


#16
Acenaphthylene
Concen: 5.505 ng
RT: 14.217 min Scan# 1432
Delta R.T. 0.011 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:152 Resp: 178140

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.0	10.4	15.6



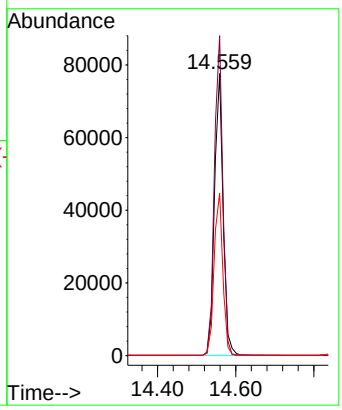


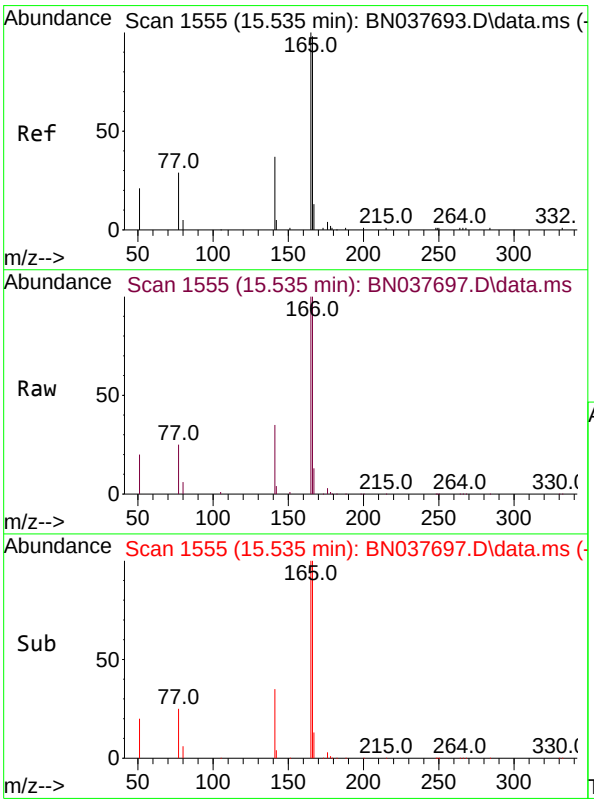
#17
Acenaphthene
Concen: 5.435 ng
RT: 14.559 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 118915

Ion	Ratio	Lower	Upper
154	100		
153	111.1	89.8	134.8
152	58.4	50.2	75.2

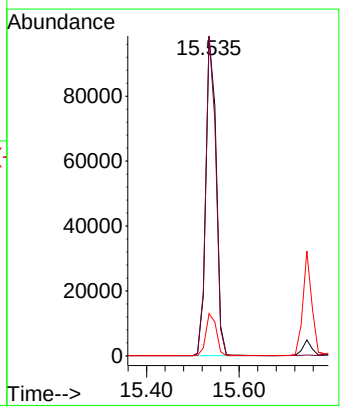


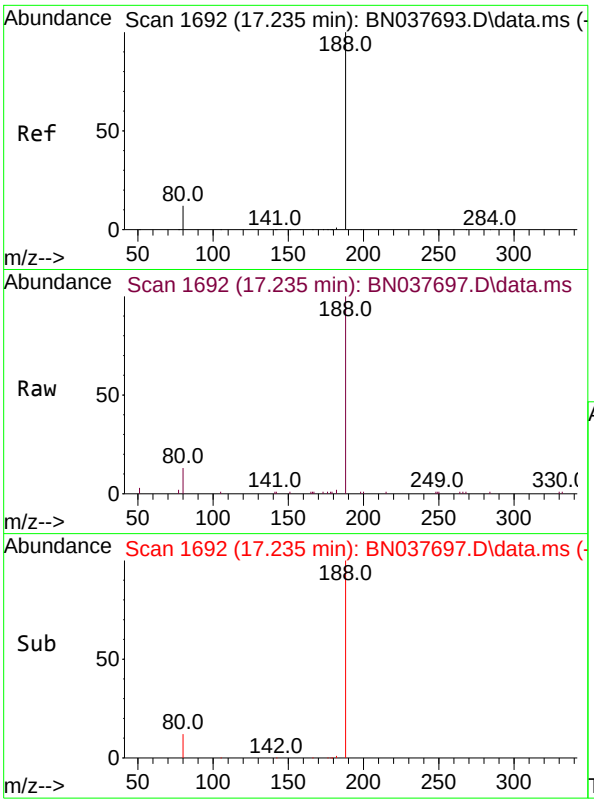


#18
Fluorene
Concen: 5.563 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:166 Resp: 147419

Ion	Ratio	Lower	Upper
166	100		
165	97.9	79.6	119.4
167	13.5	10.6	16.0



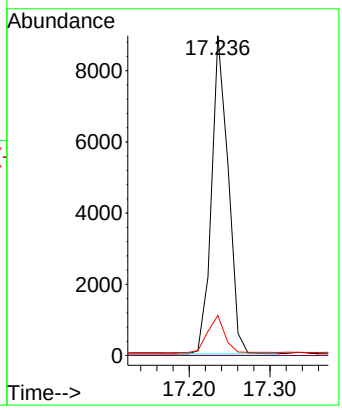


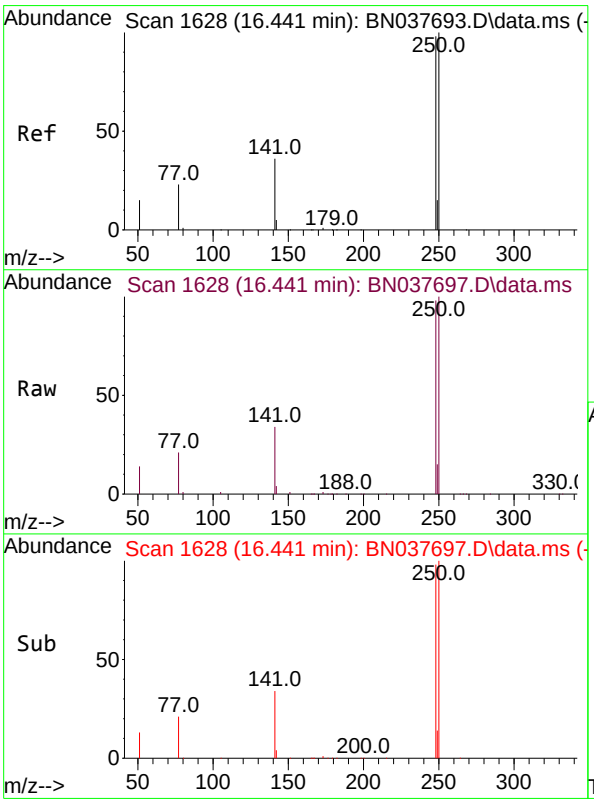
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 12767

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.5	10.6	15.8

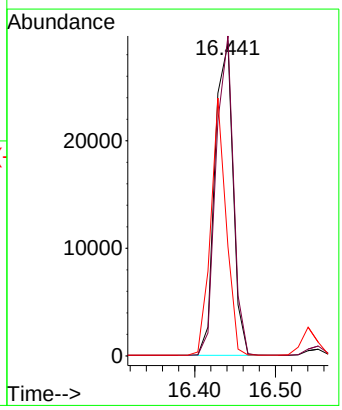


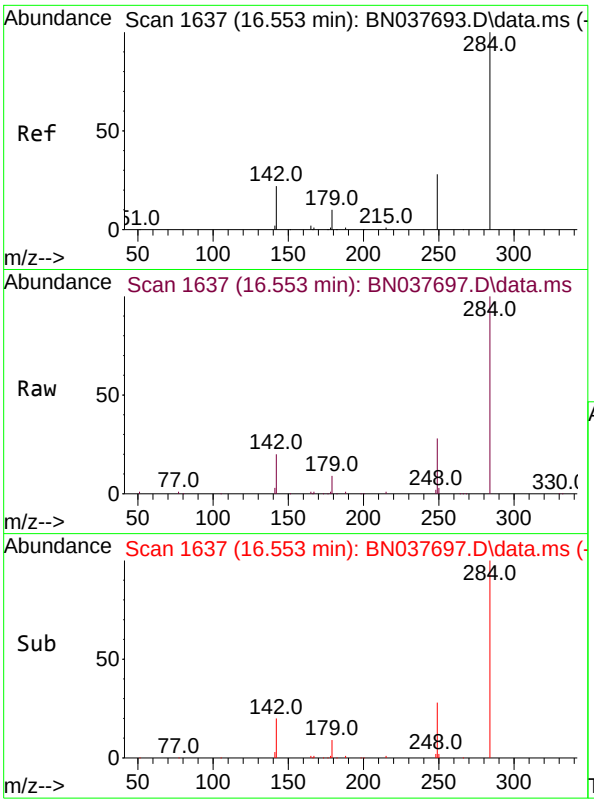


#21
4-Bromophenyl-phenylether
Concen: 5.448 ng
RT: 16.441 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:248 Resp: 45357

Ion	Ratio	Lower	Upper
248	100		
250	102.5	81.5	122.3
141	35.0	30.8	46.2



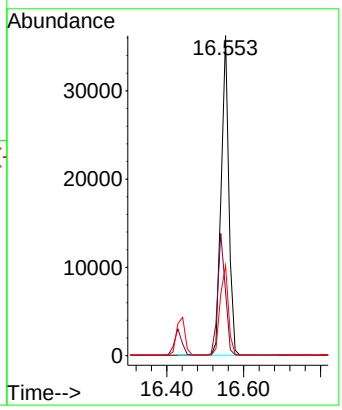


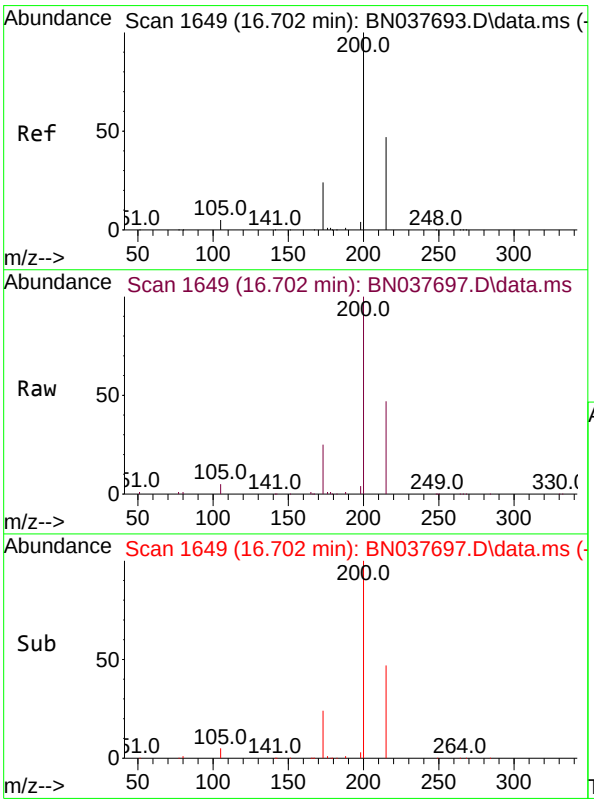
#22
Hexachlorobenzene
Concen: 5.160 ng
RT: 16.553 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:284 Resp: 49411

Ion	Ratio	Lower	Upper
284	100		
142	38.2	30.9	46.3
249	30.2	24.8	37.2

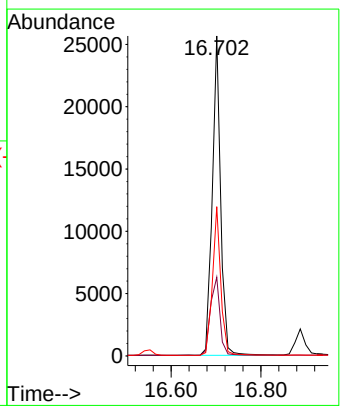


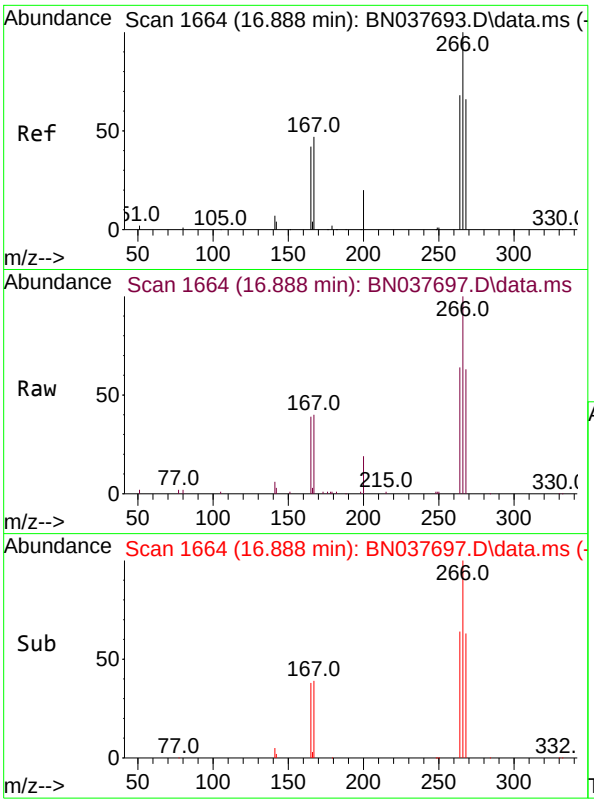


#23
Atrazine
Concen: 6.295 ng
RT: 16.702 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:200 Resp: 33341

Ion	Ratio	Lower	Upper
200	100		
173	24.6	21.4	32.2
215	46.6	39.2	58.8



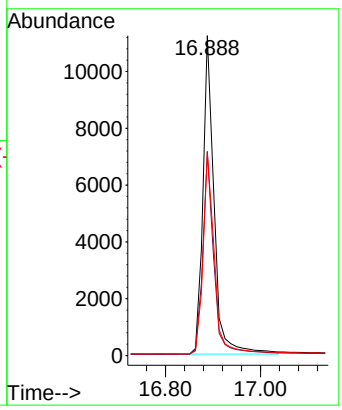


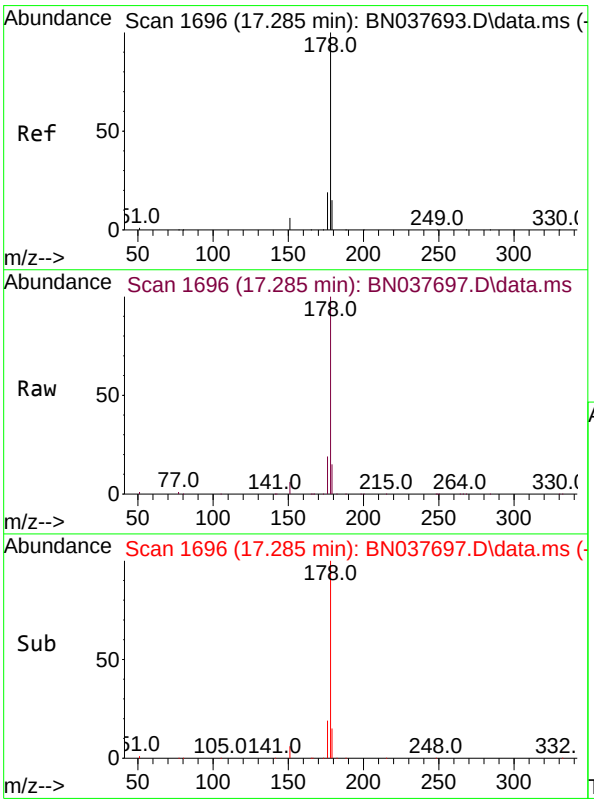
#24
Pentachlorophenol
Concen: 6.581 ng
RT: 16.888 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:266 Resp: 18297

Ion	Ratio	Lower	Upper
266	100		
264	62.8	51.6	77.4
268	63.6	53.2	79.8

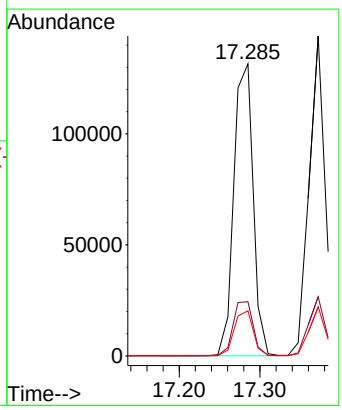


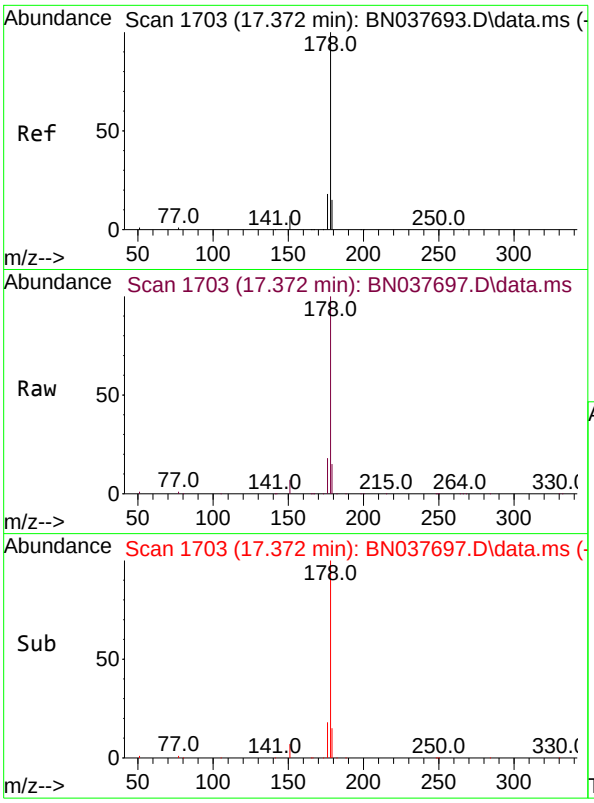


#25
Phenanthrene
Concen: 5.441 ng
RT: 17.285 min Scan# 1696
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:178 Resp: 218722

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.1	12.2	18.2



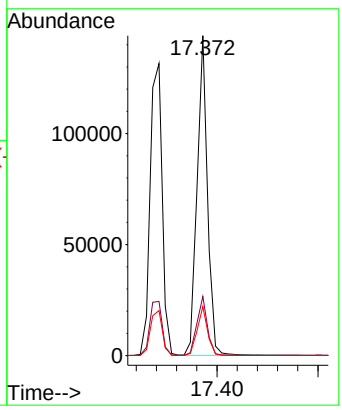


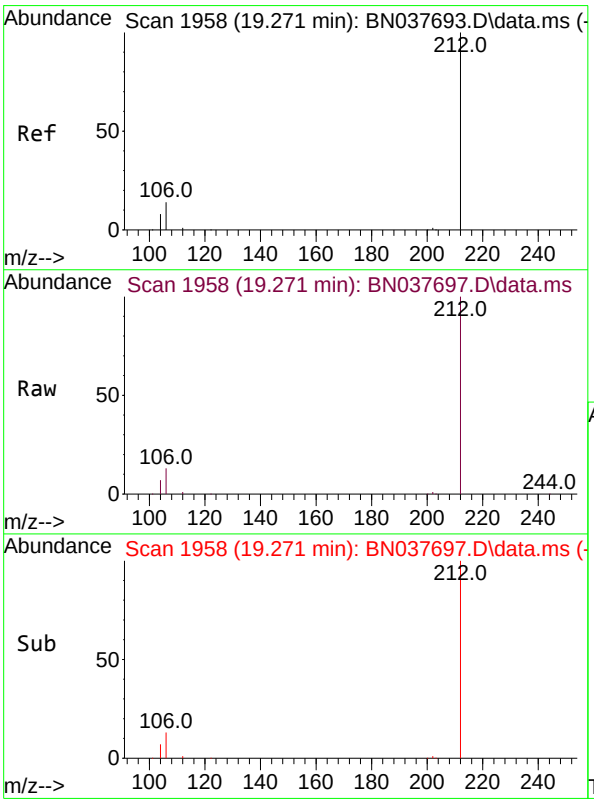
#26
Anthracene
Concen: 5.741 ng
RT: 17.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 204421

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.2	12.2	18.4

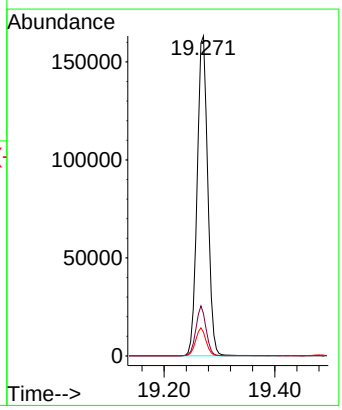


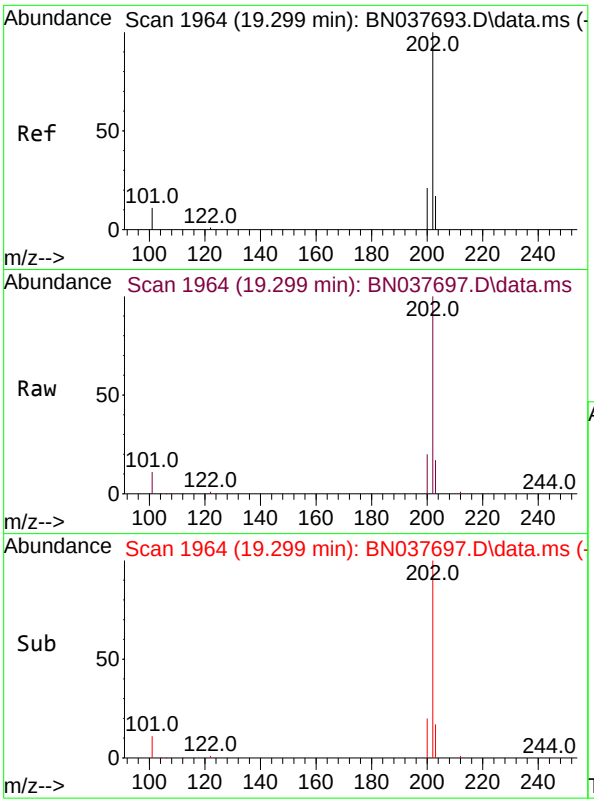


#27
Fluoranthene-d10
Concen: 6.721 ng
RT: 19.271 min Scan# 1958
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:212 Resp: 215419

Ion	Ratio	Lower	Upper
212	100		
106	14.9	12.2	18.2
104	8.5	6.9	10.3



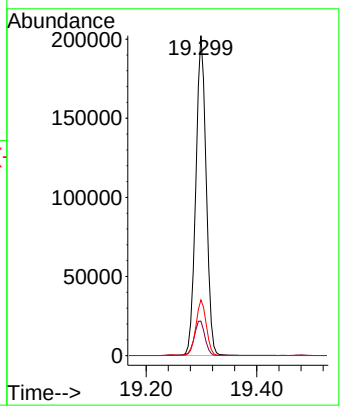


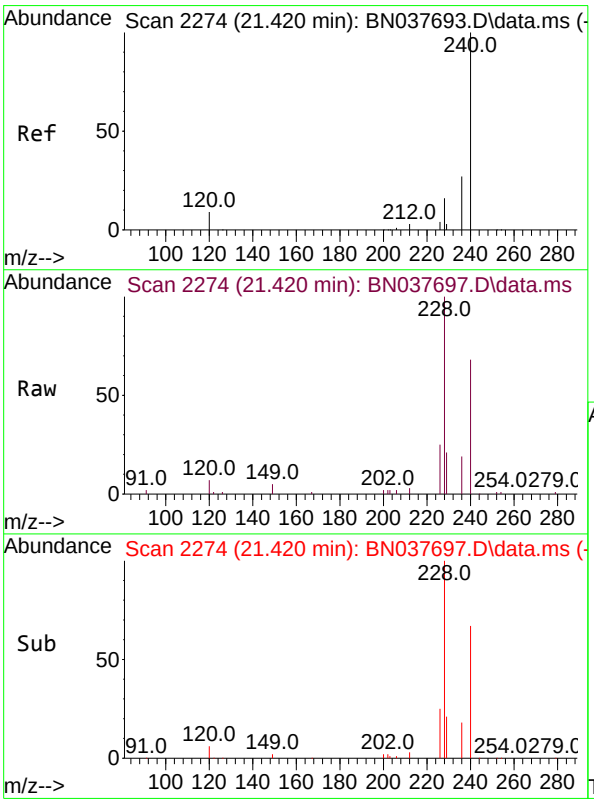
#28
Fluoranthene
Concen: 5.926 ng
RT: 19.299 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 261250

Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.3	13.9
203	17.3	13.7	20.5

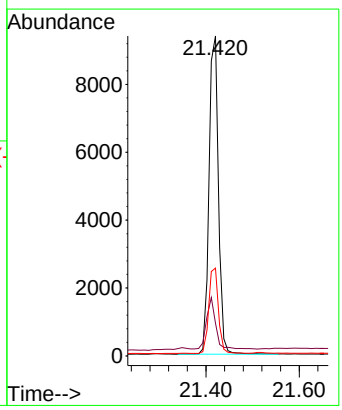


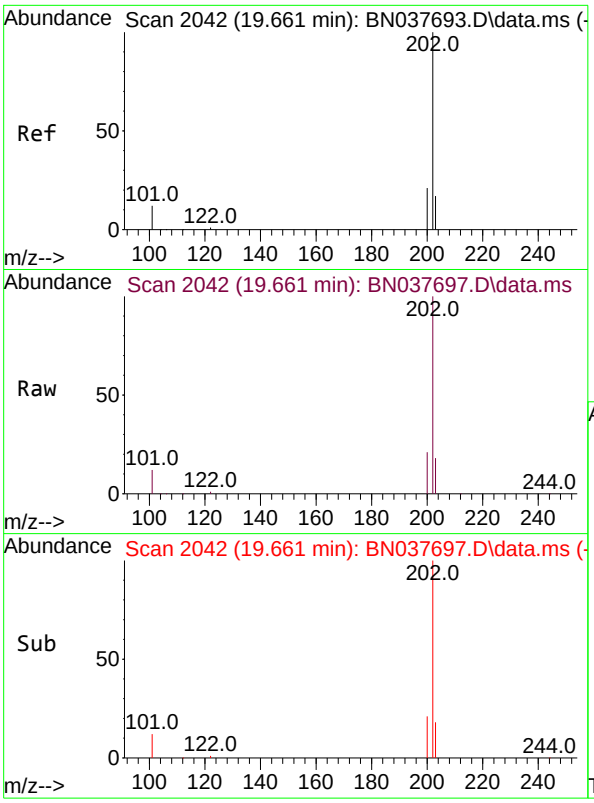


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:240 Resp: 13060

Ion	Ratio	Lower	Upper
240	100		
120	10.2	9.2	13.8
236	27.4	22.6	33.8



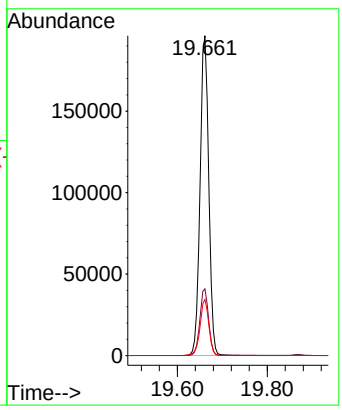


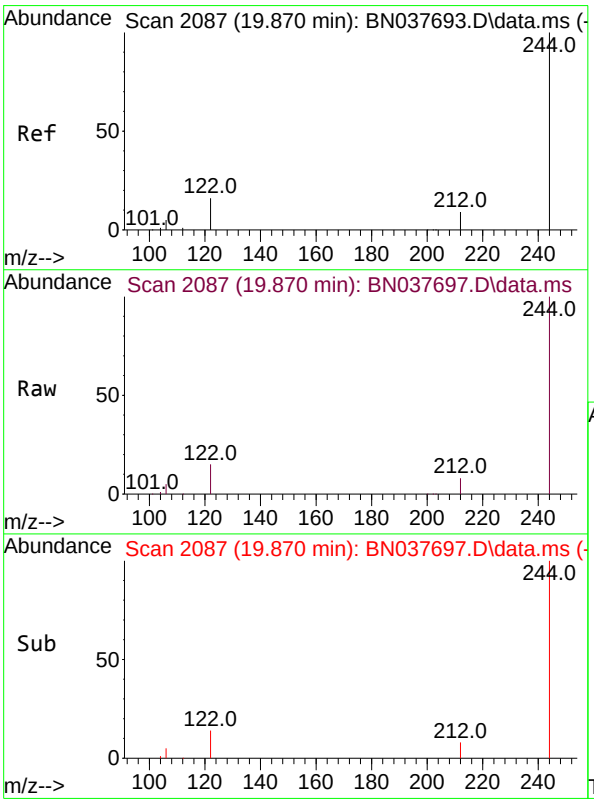
#30
Pyrene
Concen: 5.077 ng
RT: 19.661 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 259551

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.8	14.3	21.5

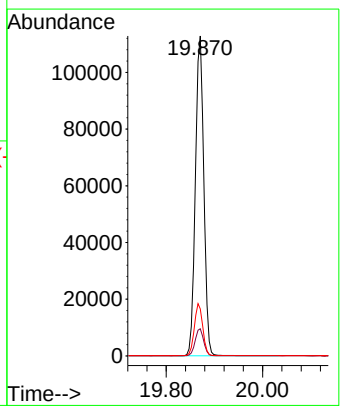


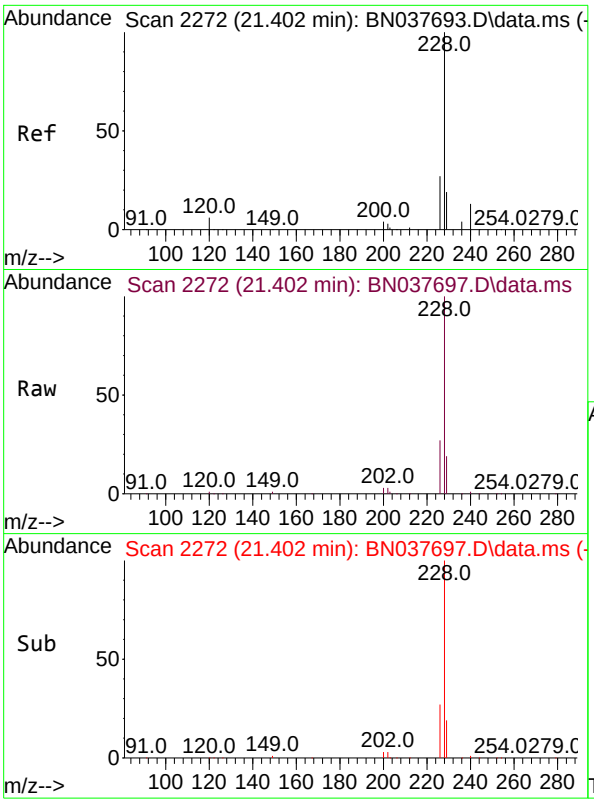


#31
Terphenyl-d14
Concen: 5.493 ng
RT: 19.870 min Scan# 2087
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:244 Resp: 145595

Ion	Ratio	Lower	Upper
244	100		
212	8.5	7.5	11.3
122	14.7	13.2	19.8



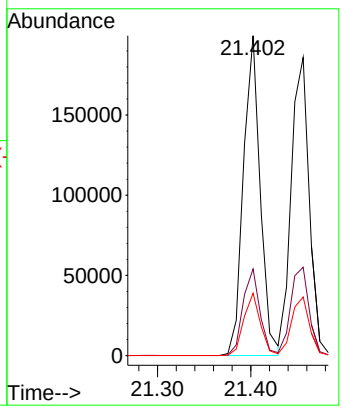


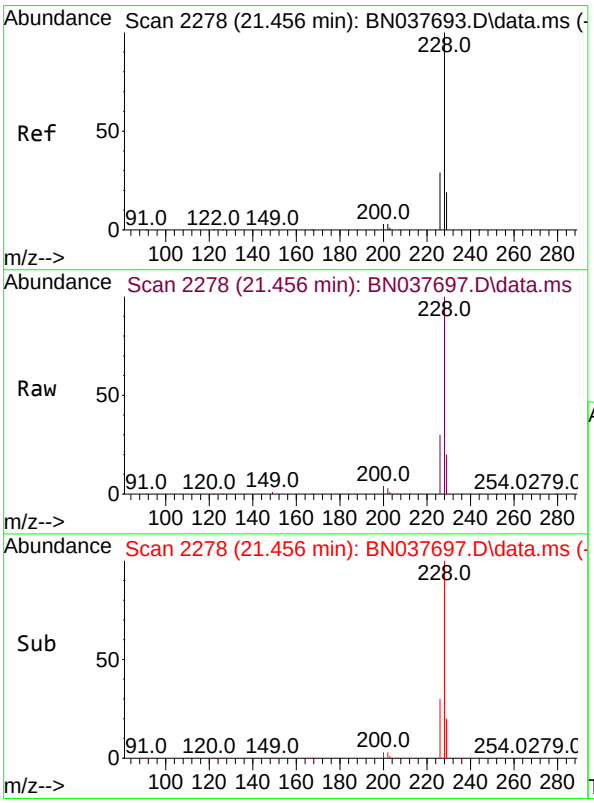
#32
Benzo(a)anthracene
Concen: 5.454 ng
RT: 21.402 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 248434

Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.2	33.2
229	19.5	15.8	23.6

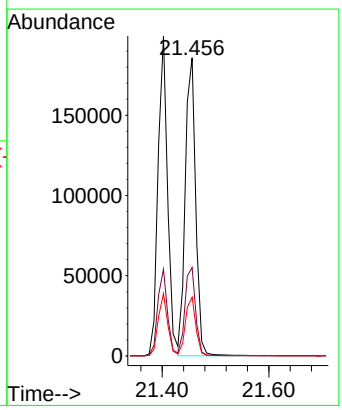


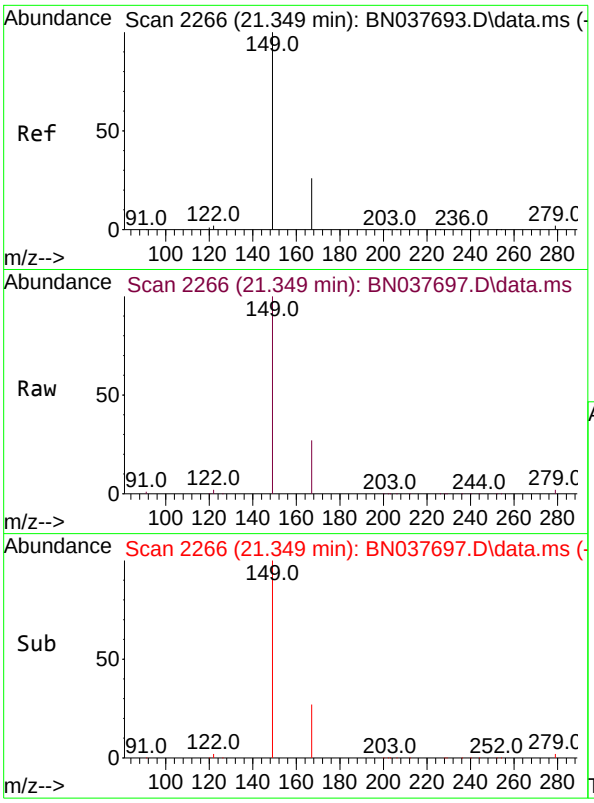


#33
Chrysene
Concen: 5.158 ng
RT: 21.456 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:228 Resp: 251956

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.5	35.3
229	19.7	15.9	23.9



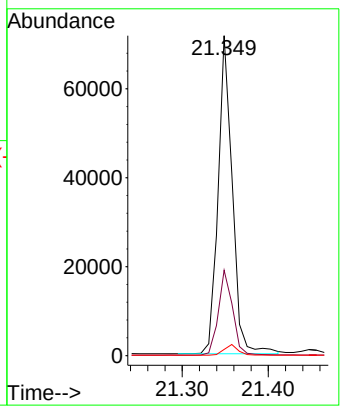


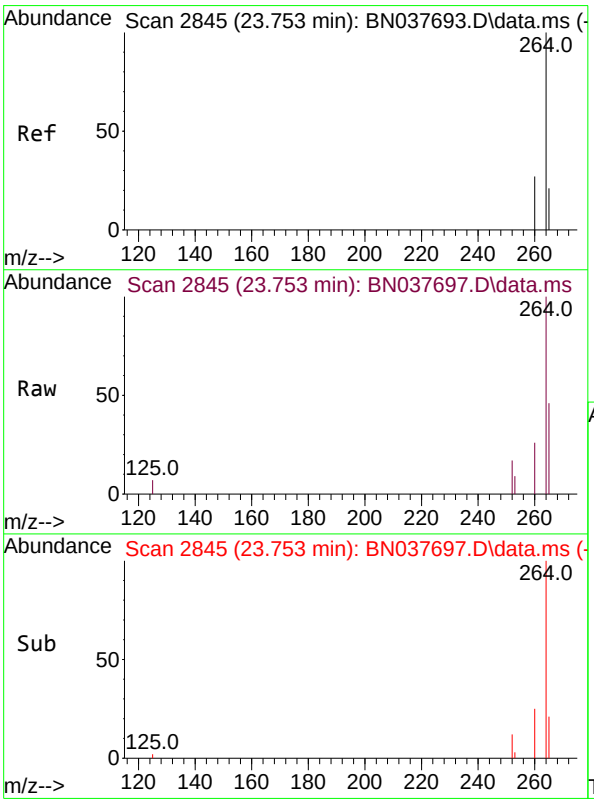
#34
Bis(2-ethylhexyl)phthalate
Concen: 6.091 ng
RT: 21.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:149 Resp: 82262

Ion	Ratio	Lower	Upper
149	100		
167	26.7	20.8	31.2
279	3.2	3.3	4.9#

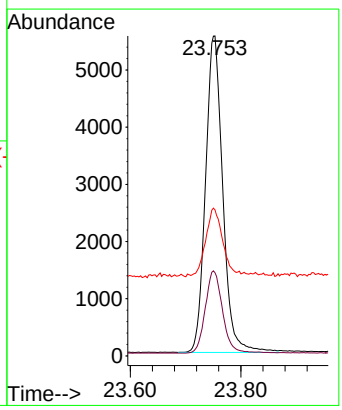


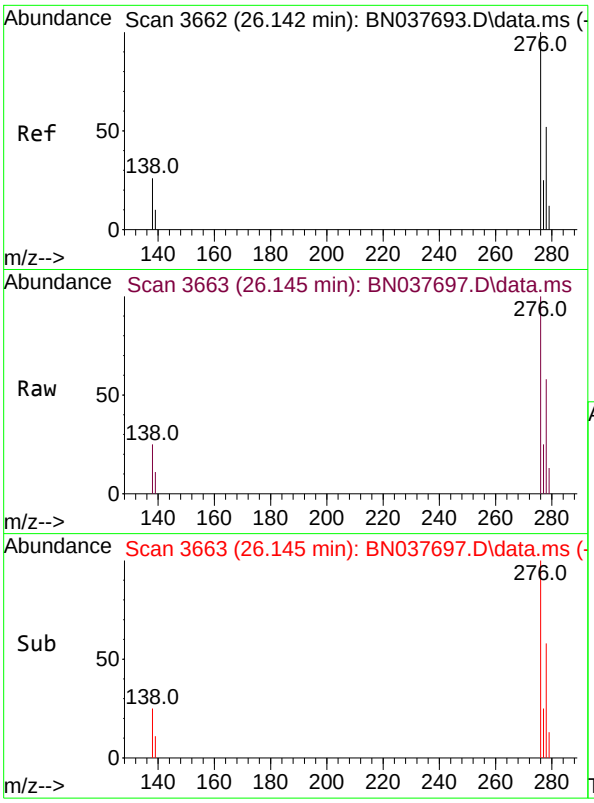


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 2845
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:264 Resp: 12009

Ion	Ratio	Lower	Upper
264	100		
260	26.0	21.8	32.8
265	45.6	39.4	59.2



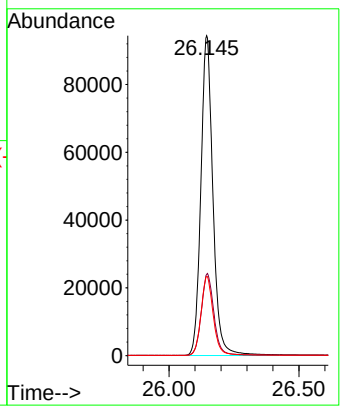


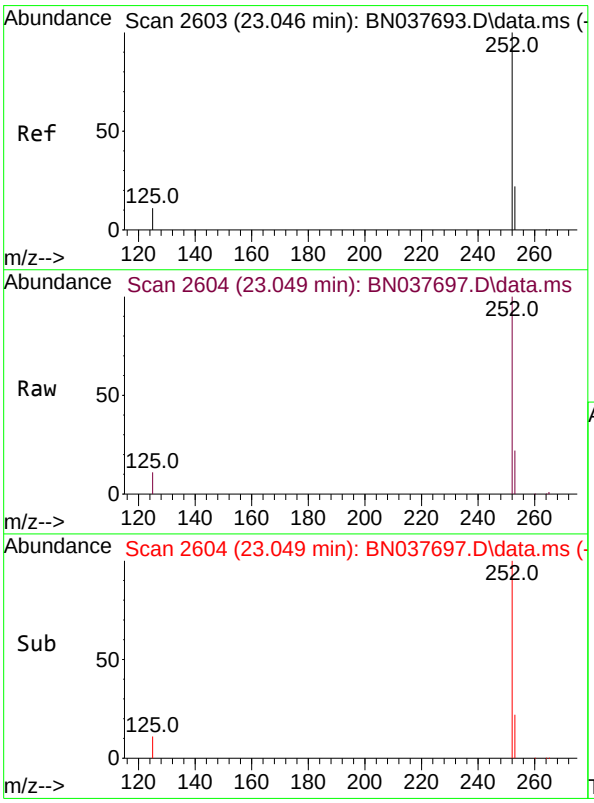
#36
Indeno(1,2,3-cd)pyrene
Concen: 6.024 ng
RT: 26.145 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 303960

Ion	Ratio	Lower	Upper
276	100		
138	26.6	21.9	32.9
277	25.1	20.1	30.1

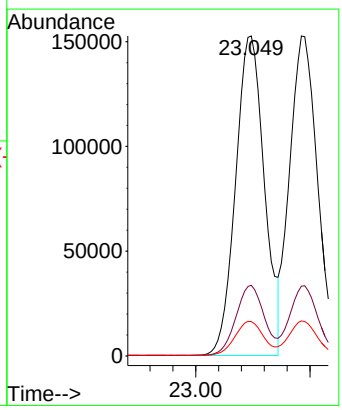


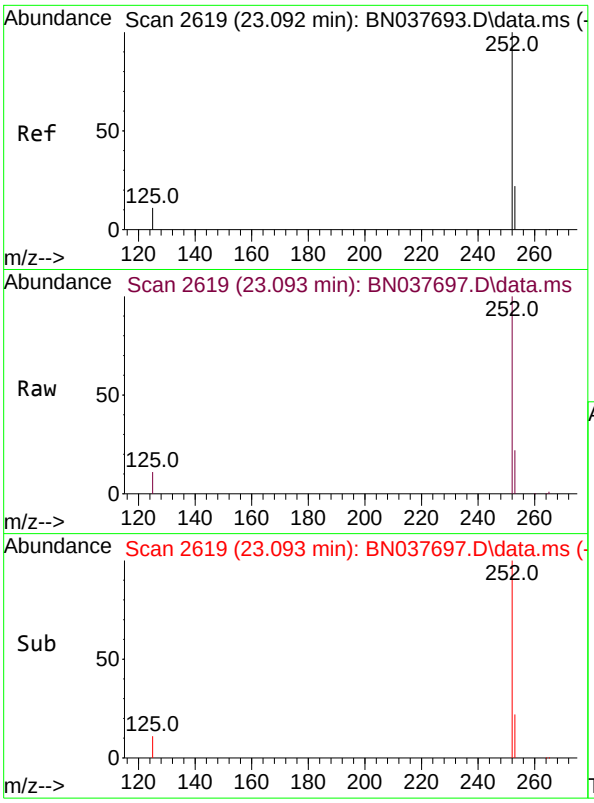


#37
Benzo(b)fluoranthene
Concen: 5.645 ng
RT: 23.049 min Scan# 2604
Delta R.T. 0.003 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:252 Resp: 266973

Ion	Ratio	Lower	Upper
252	100		
253	22.1	19.4	29.2
125	10.7	11.2	16.8#



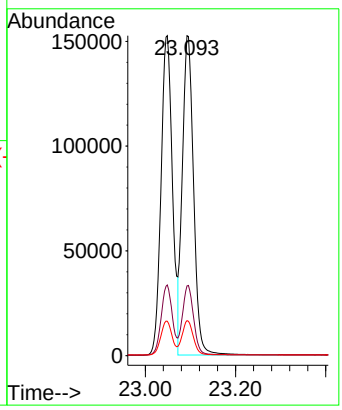


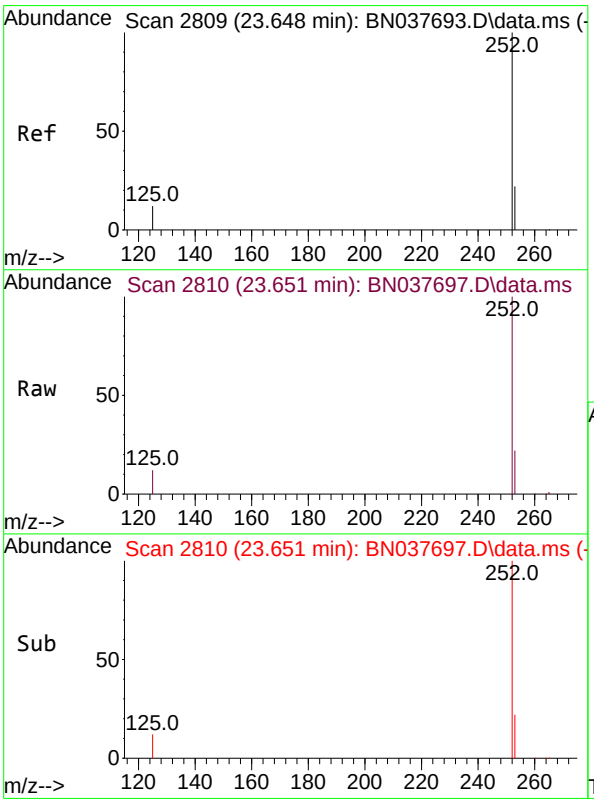
#38
Benzo(k)fluoranthene
Concen: 5.466 ng
RT: 23.093 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 263641

Ion	Ratio	Lower	Upper
252	100		
253	21.8	19.4	29.0
125	10.9	11.6	17.4#

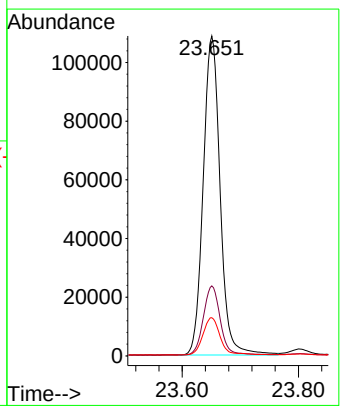


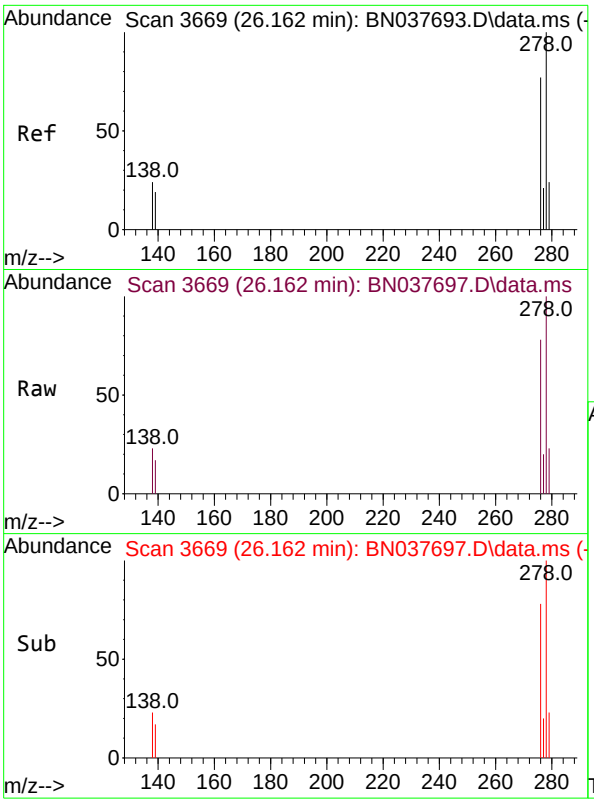


#39
Benzo(a)pyrene
Concen: 5.816 ng
RT: 23.651 min Scan# 2810
Delta R.T. 0.003 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:252 Resp: 220208

Ion	Ratio	Lower	Upper
252	100		
253	21.9	20.8	31.2
125	11.9	13.9	20.9#



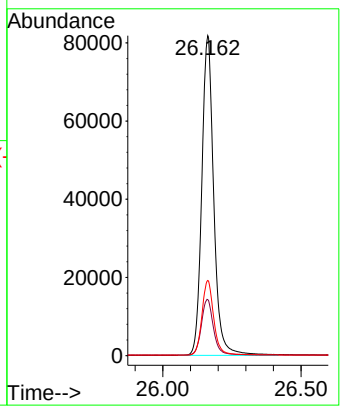


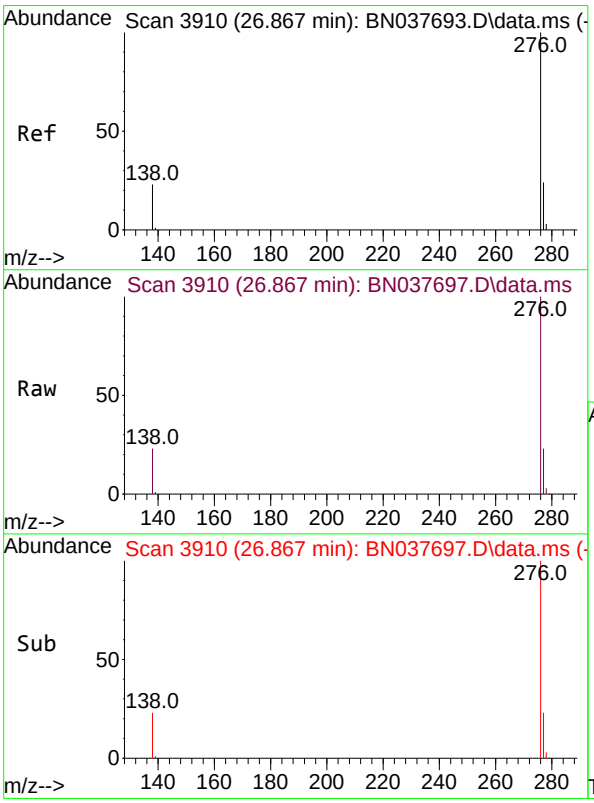
#40
Dibenzo(a,h)anthracene
Concen: 6.096 ng
RT: 26.162 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:278 Resp: 245606

Ion	Ratio	Lower	Upper
278	100		
139	17.5	17.8	26.6#
279	23.5	22.0	33.0

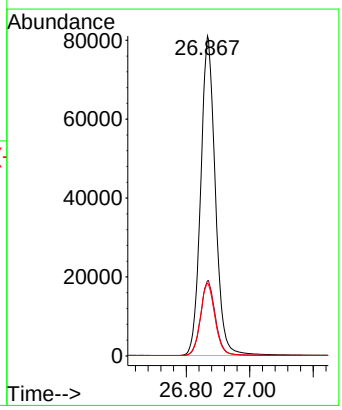




#41
Benzo(g,h,i)perylene
Concen: 5.720 ng
RT: 26.867 min Scan# 3910
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:276 Resp: 258594

Ion	Ratio	Lower	Upper
276	100		
277	23.5	20.6	31.0
138	22.7	20.2	30.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037698.D
Acq On : 11 Sep 2025 14:09
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Quant Time: Sep 11 16:00:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.840	152	5029	0.400	ng		0.00
7) Naphthalene-d8	10.647	136	13552	0.400	ng		0.00
13) Acenaphthene-d10	14.494	164	6371	0.400	ng		0.00
19) Phenanthrene-d10	17.235	188	11165	0.400	ng		0.00
29) Chrysene-d12	21.420	240	8931	0.400	ng		0.00
35) Perylene-d12	23.750	264	8751	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.399	112	4545	0.394	ng		0.00
5) Phenol-d6	6.987	99	5691	0.380	ng		0.00
8) Nitrobenzene-d5	8.992	82	4501	0.454	ng		0.00
11) 2-Methylnaphthalene-d10	12.242	152	7632	0.425	ng		0.00
14) 2,4,6-Tribromophenol	15.982	330	629	0.379	ng		0.00
15) 2-Fluorobiphenyl	13.115	172	12687	0.476	ng		0.00
27) Fluoranthene-d10	19.271	212	11138	0.397	ng		0.00
31) Terphenyl-d14	19.870	244	8765	0.484	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.304	88	2457	0.469	ng		98
3) n-Nitrosodimethylamine	3.607	42	2924	0.427	ng	#	94
6) bis(2-Chloroethyl)ether	7.255	93	5769	0.431	ng		99
9) Naphthalene	10.690	128	15153	0.409	ng		100
10) Hexachlorobutadiene	11.000	225	2814	0.420	ng	#	99
12) 2-Methylnaphthalene	12.313	142	8593	0.375	ng		100
16) Acenaphthylene	14.216	152	12785	0.438	ng		100
17) Acenaphthene	14.558	154	7838	0.397	ng		99
18) Fluorene	15.535	166	9460	0.395	ng		98
20) 4,6-Dinitro-2-methylph...	15.609	198	392	0.379	ng		99
21) 4-Bromophenyl-phenylether	16.441	248	2975	0.409	ng		97
22) Hexachlorobenzene	16.552	284	3569	0.426	ng		99
23) Atrazine	16.701	200	1828	0.395	ng		99
24) Pentachlorophenol	16.888	266	785	0.323	ng		97
25) Phenanthrene	17.285	178	14262	0.406	ng		99
26) Anthracene	17.372	178	12642	0.406	ng		99
28) Fluoranthene	19.299	202	14471	0.375	ng		100
30) Pyrene	19.661	202	14323	0.410	ng		100
32) Benzo(a)anthracene	21.402	228	12803	0.411	ng		99
33) Chrysene	21.456	228	13963	0.418	ng		99
34) Bis(2-ethylhexyl)phtha...	21.348	149	3245	0.351	ng	#	98
36) Indeno(1,2,3-cd)pyrene	26.139	276	15430	0.420	ng		100
37) Benzo(b)fluoranthene	23.045	252	13718	0.398	ng		100
38) Benzo(k)fluoranthene	23.092	252	14465	0.412	ng		98
39) Benzo(a)pyrene	23.648	252	11950	0.433	ng		100
40) Dibenzo(a,h)anthracene	26.159	278	12290	0.419	ng		99
41) Benzo(g,h,i)perylene	26.864	276	13095	0.398	ng		99

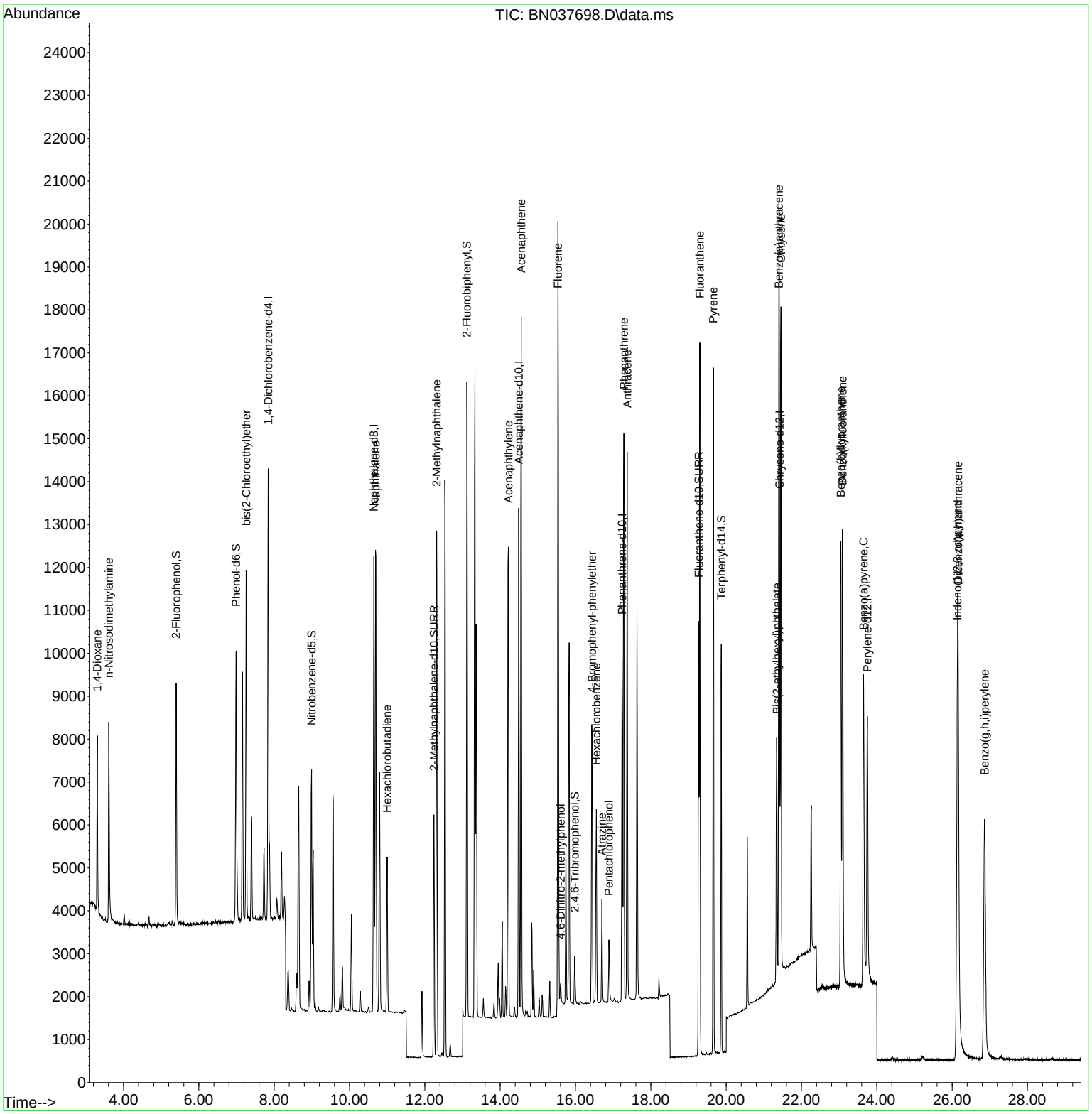
(#) = qualifier out of range (m) = manual integration (+) = signals summed

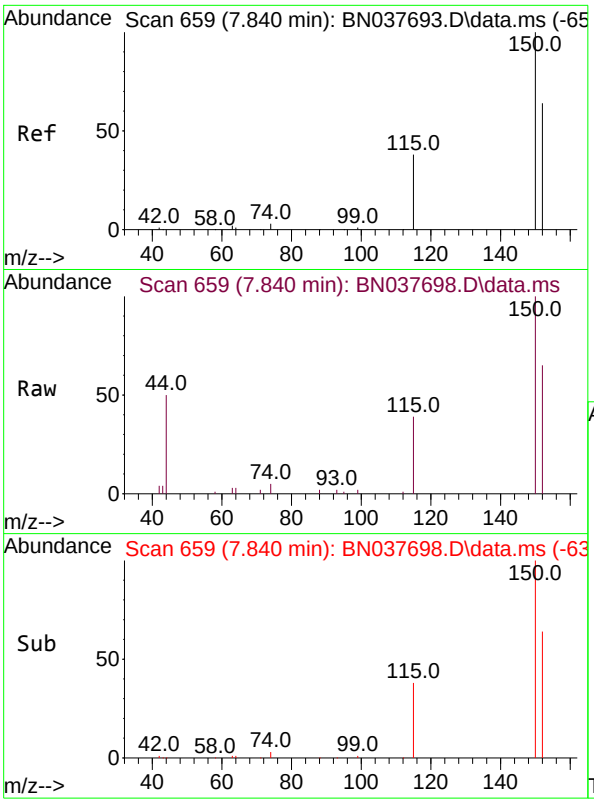
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037698.D
Acq On : 11 Sep 2025 14:09
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Quant Time: Sep 11 16:00:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



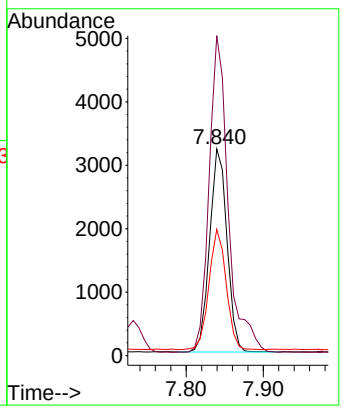


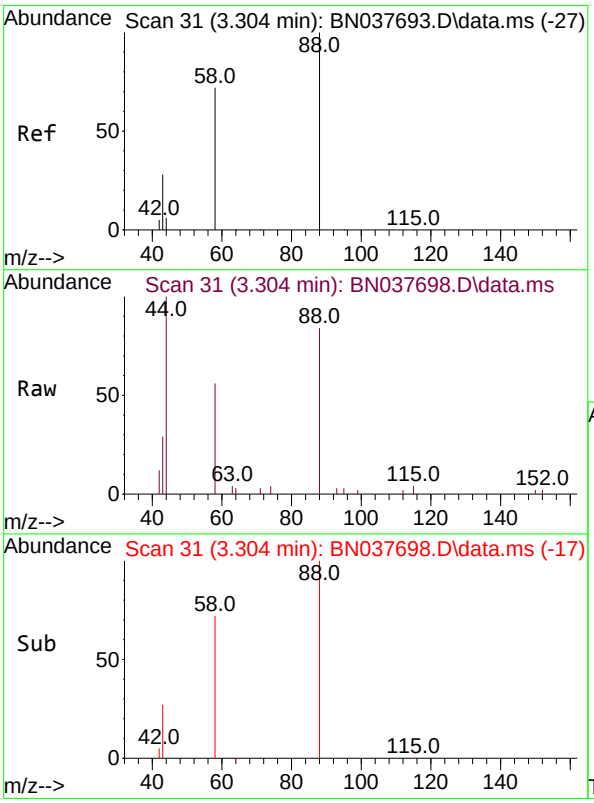
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:152 Resp: 5029

Ion	Ratio	Lower	Upper
152	100		
150	154.8	124.5	186.7
115	61.0	49.2	73.8

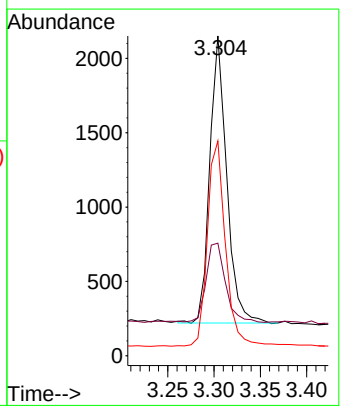


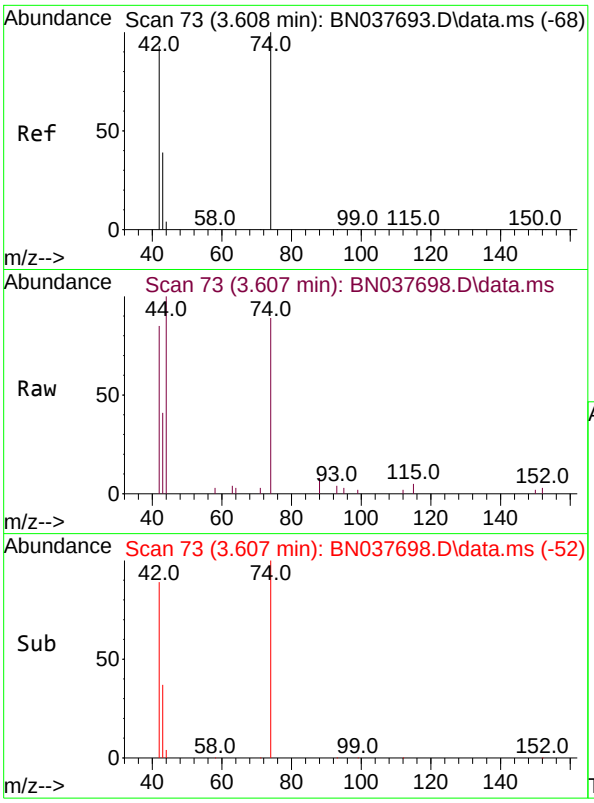


#2
1,4-Dioxane
Concen: 0.469 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion: 88 Resp: 2457

Ion	Ratio	Lower	Upper
88	100		
43	31.5	26.8	40.2
58	76.6	61.9	92.9



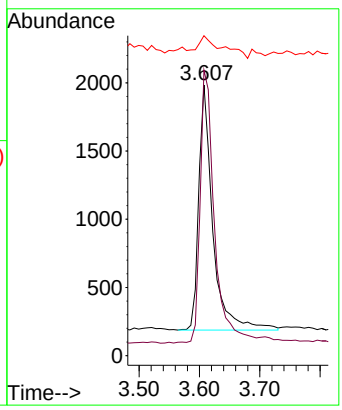


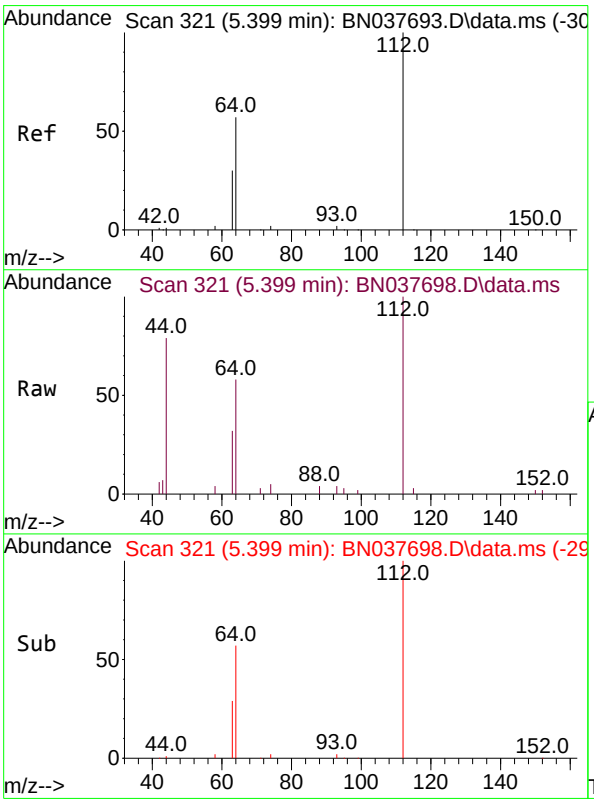
#3
n-Nitrosodimethylamine
Concen: 0.427 ng
RT: 3.607 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion: 42 Resp: 2924

Ion	Ratio	Lower	Upper
42	100		
74	112.9	86.0	129.0
44	15.6	8.4	12.6#

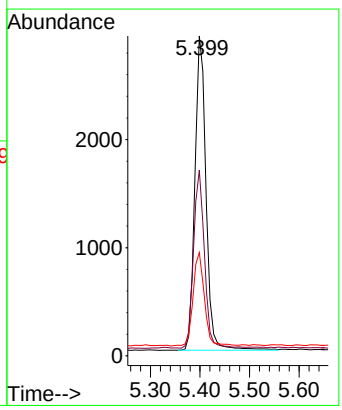


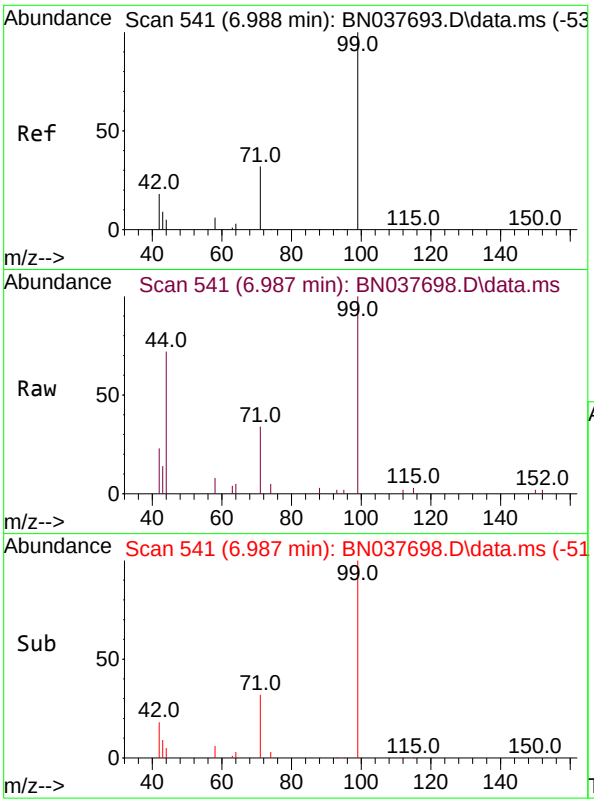


#4
2-Fluorophenol
Concen: 0.394 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:112 Resp: 4545

Ion	Ratio	Lower	Upper
112	100		
64	55.4	44.9	67.3
63	30.2	24.7	37.1



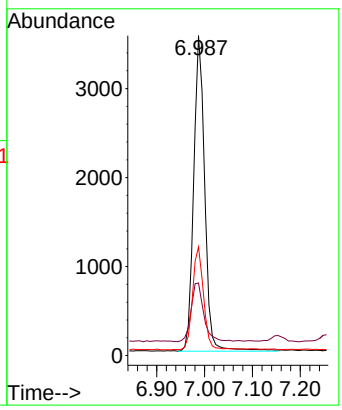


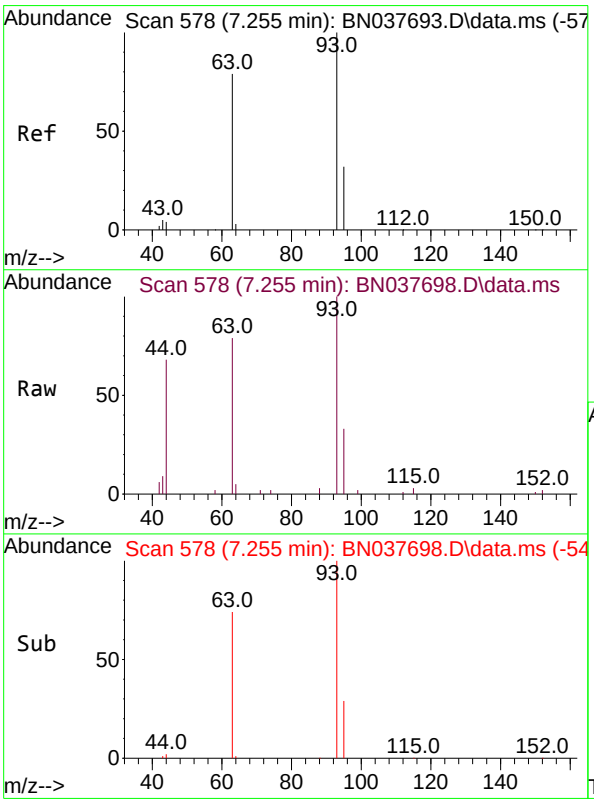
#5
Phenol-d6
Concen: 0.380 ng
RT: 6.987 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion: 99 Resp: 5691

Ion	Ratio	Lower	Upper
99	100		
42	21.3	16.6	24.8
71	32.6	26.7	40.1

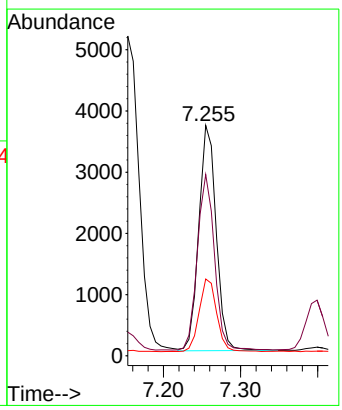


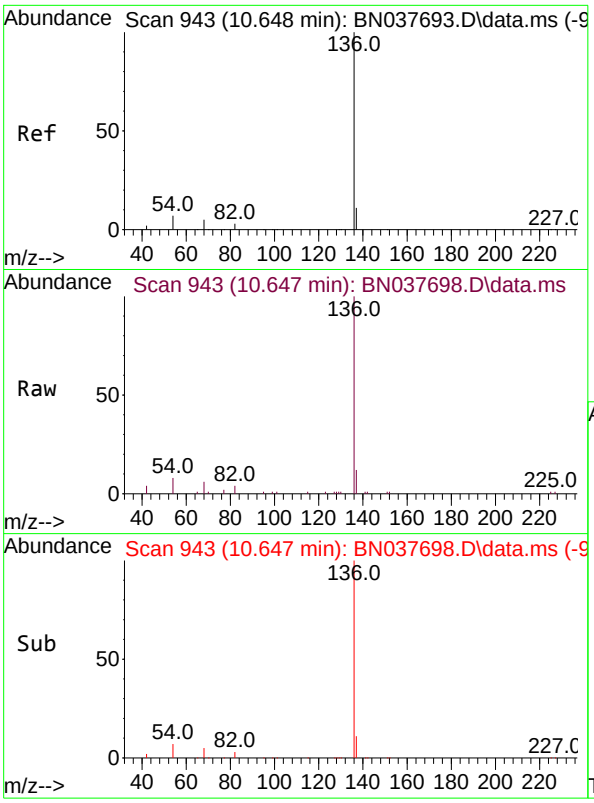


#6
bis(2-Chloroethyl)ether
Concen: 0.431 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion: 93 Resp: 5769

Ion	Ratio	Lower	Upper
93	100		
63	76.7	60.6	90.8
95	32.7	26.0	39.0



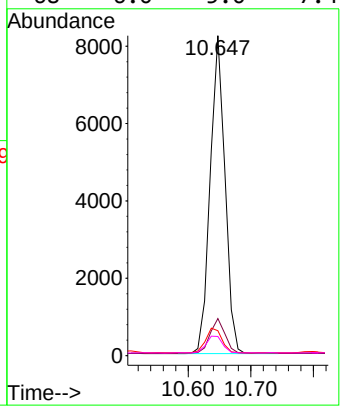


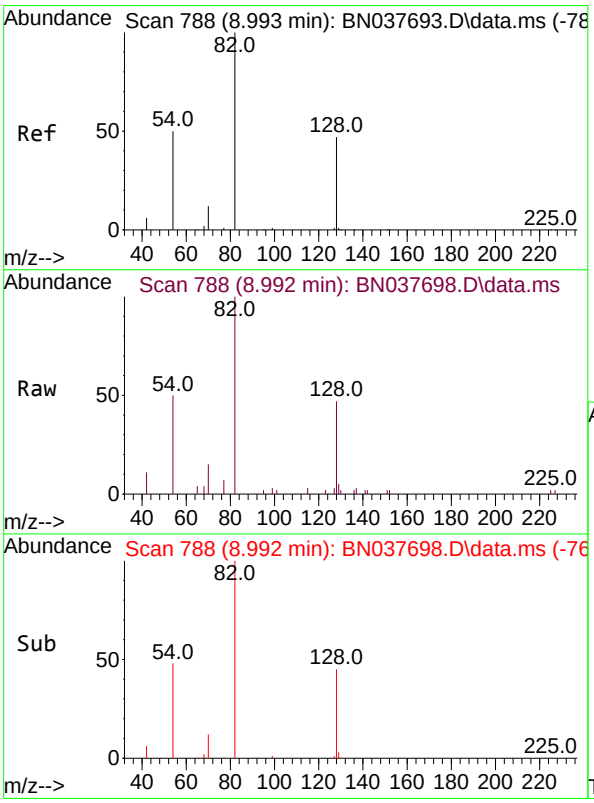
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.647 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:136 Resp: 13552

Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	7.8	6.3	9.5
68	6.0	5.0	7.4

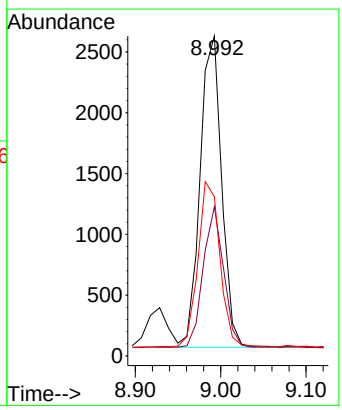


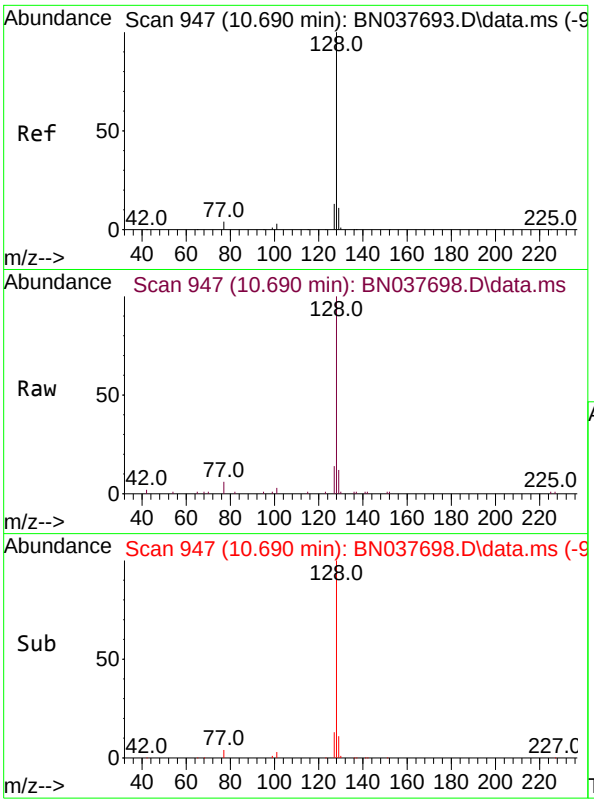


#8
Nitrobenzene-d5
Concen: 0.454 ng
RT: 8.992 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion: 82 Resp: 4501

Ion	Ratio	Lower	Upper
82	100		
128	46.6	38.3	57.5
54	49.8	41.4	62.2



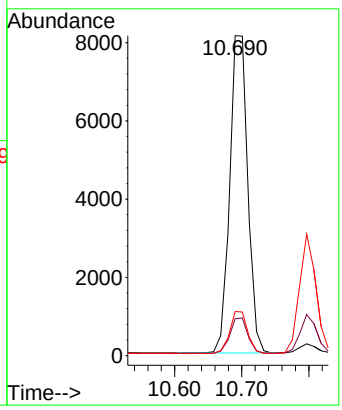


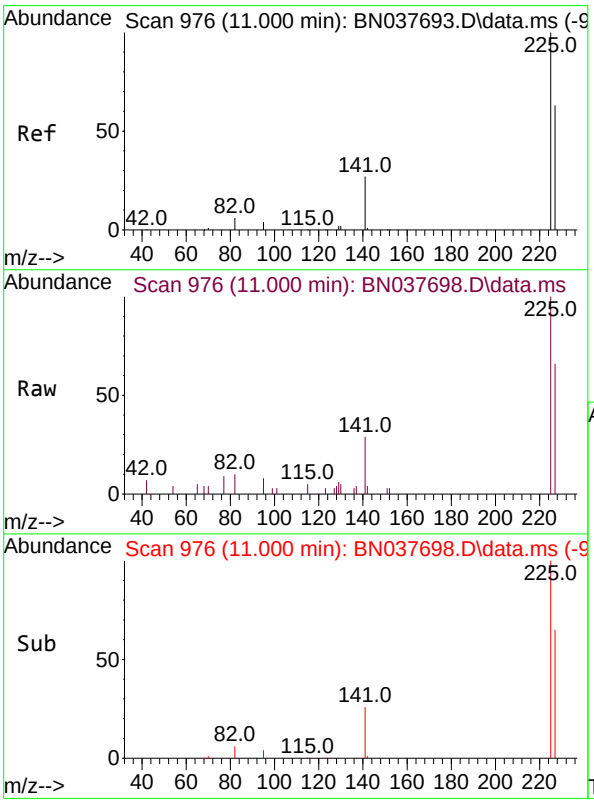
#9
Naphthalene
Concen: 0.409 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:128 Resp: 15153

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.1	13.7
127	13.8	10.9	16.3

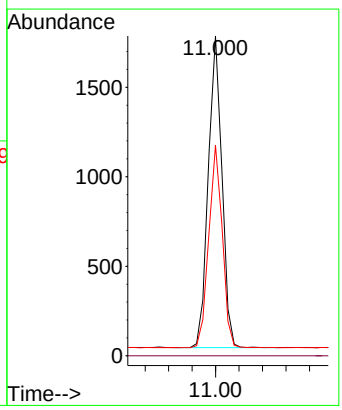


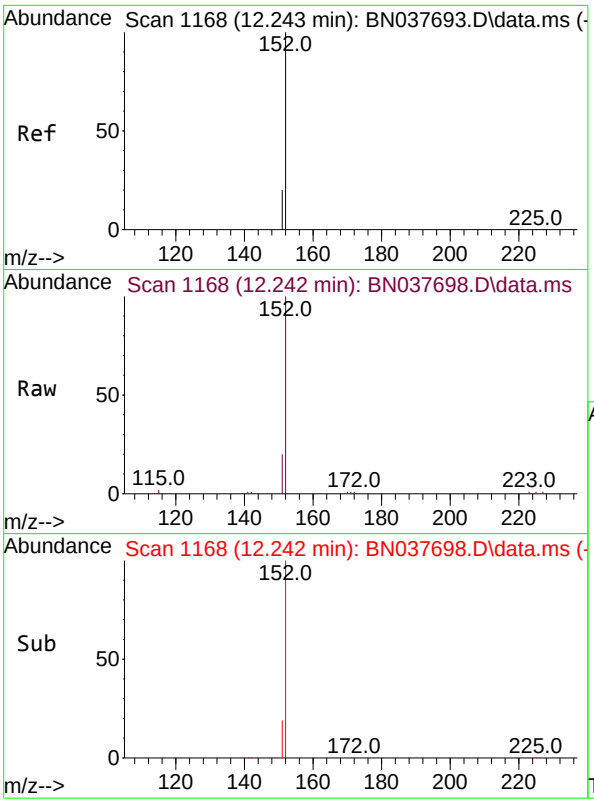


#10
Hexachlorobutadiene
Concen: 0.420 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:225 Resp: 2814

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	50.9	76.3



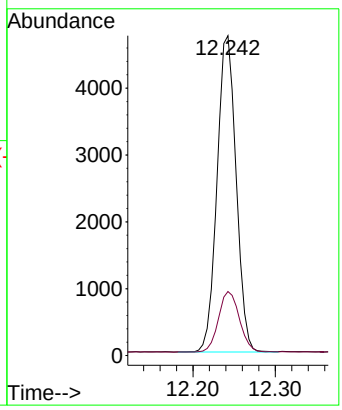


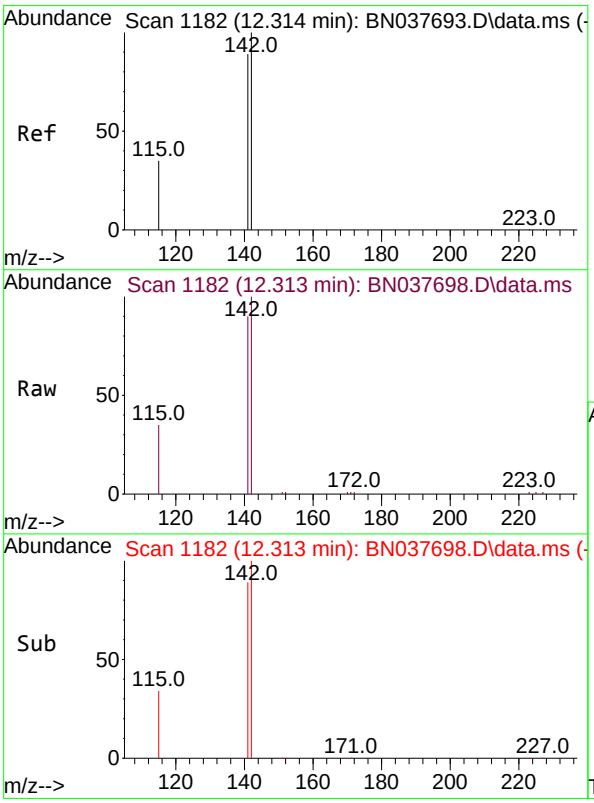
#11
2-Methylnaphthalene-d10
Concen: 0.425 ng
RT: 12.242 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:152 Resp: 7632

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.0	25.6

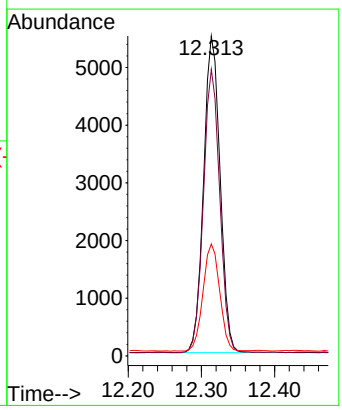


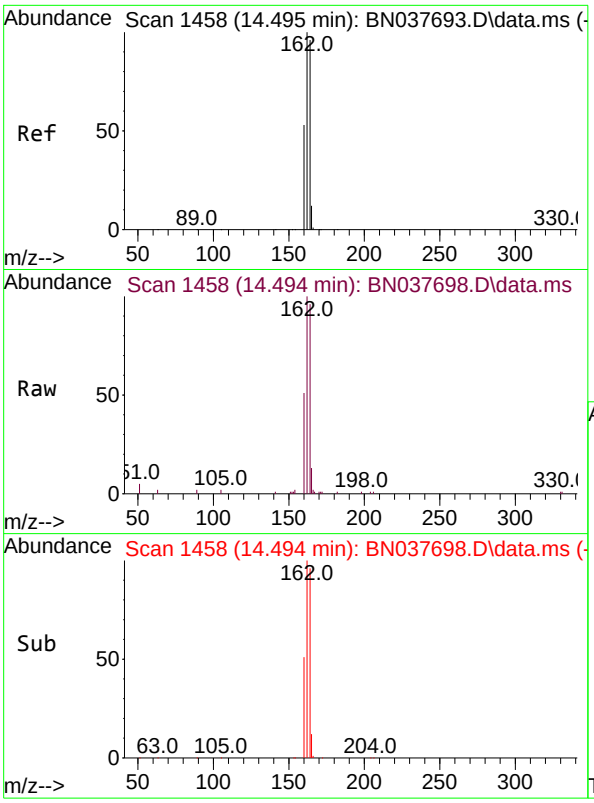


#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.313 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:142 Resp: 8593

Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.6	107.4
115	35.0	28.6	43.0



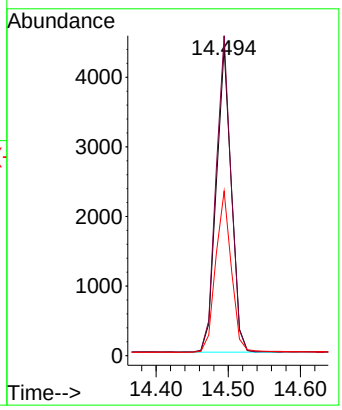


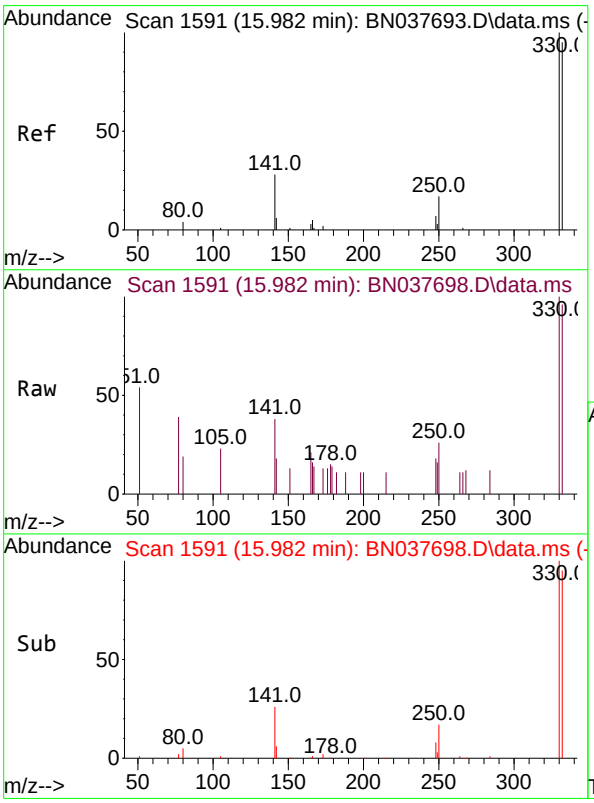
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:164 Resp: 6371

Ion	Ratio	Lower	Upper
164	100		
162	103.9	83.1	124.7
160	53.4	44.3	66.5

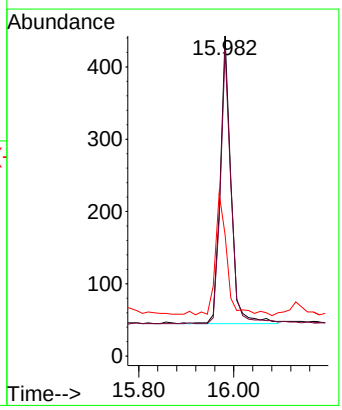


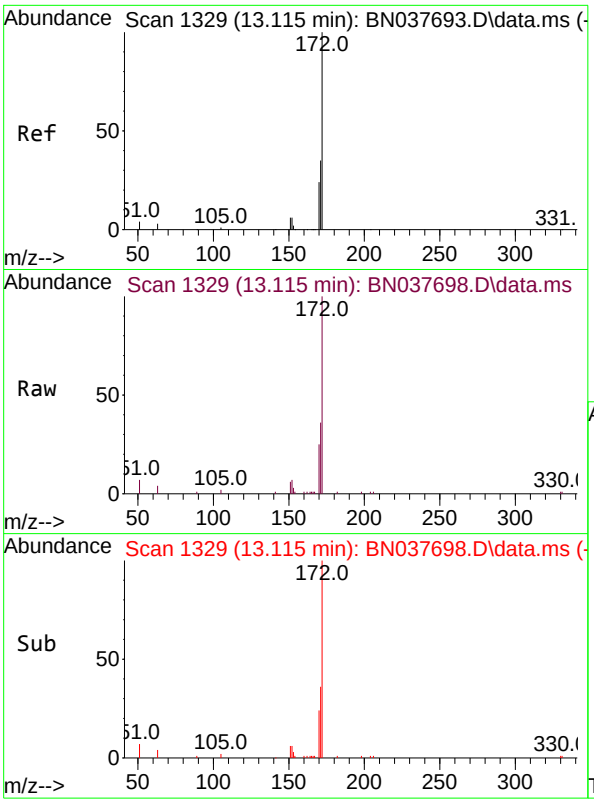


#14
2,4,6-Tribromophenol
Concen: 0.379 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:330 Resp: 629

Ion	Ratio	Lower	Upper
330	100		
332	94.8	75.3	112.9
141	45.9	35.0	52.4



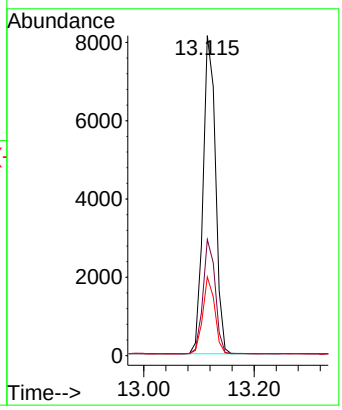


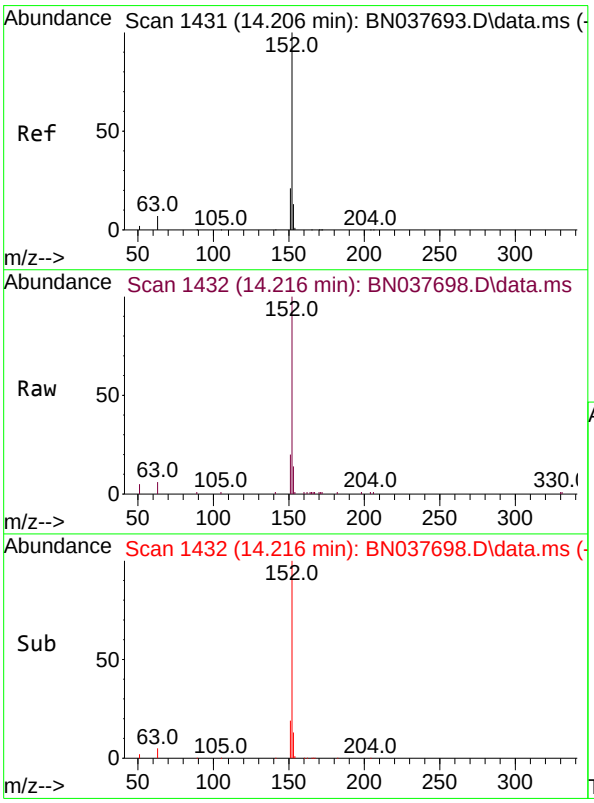
#15
2-Fluorobiphenyl
Concen: 0.476 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:172 Resp: 12687

Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.6	43.0
170	24.6	19.8	29.8

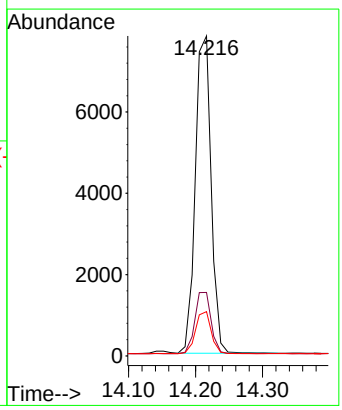


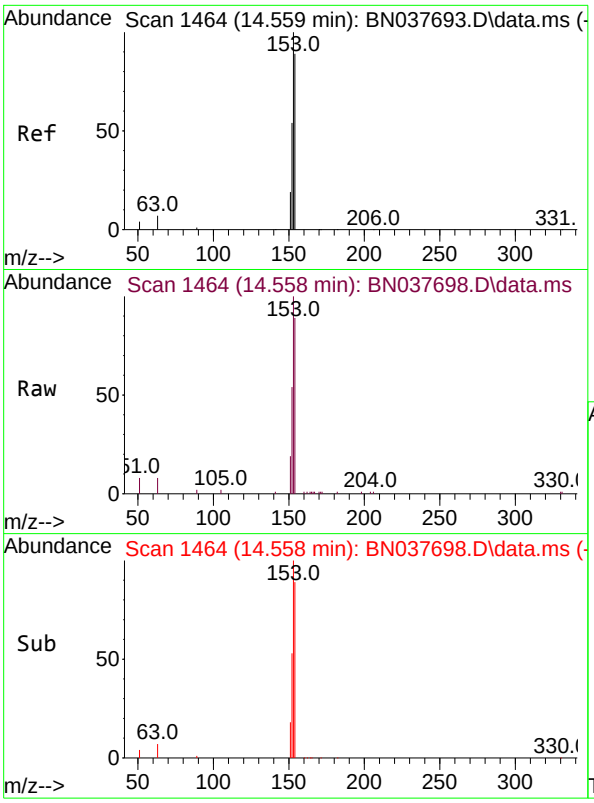


#16
Acenaphthylene
Concen: 0.438 ng
RT: 14.216 min Scan# 1432
Delta R.T. 0.010 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:152 Resp: 12785

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.2	10.4	15.6



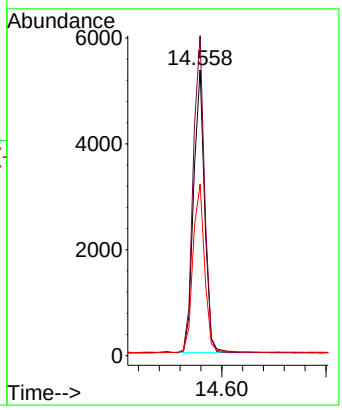


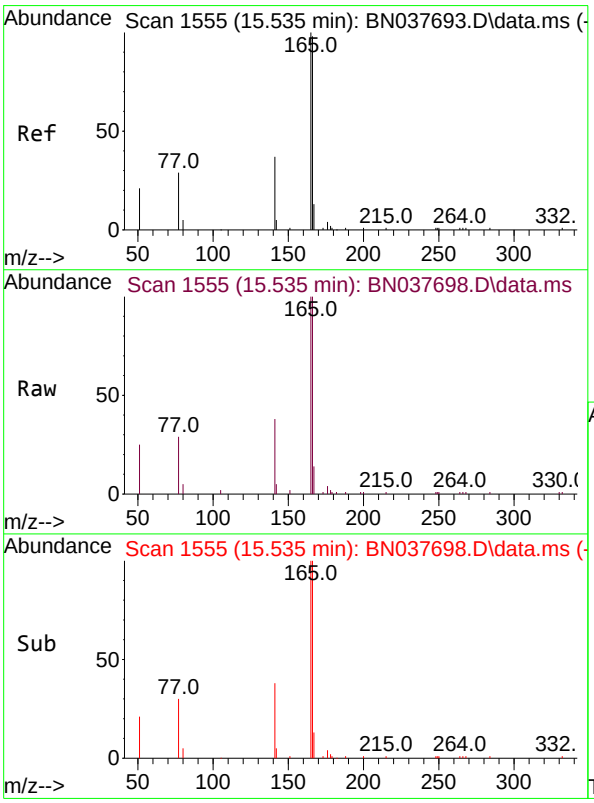
#17
Acenaphthene
Concen: 0.397 ng
RT: 14.558 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:154 Resp: 7838

Ion	Ratio	Lower	Upper
154	100		
153	114.1	89.8	134.8
152	63.0	50.2	75.2

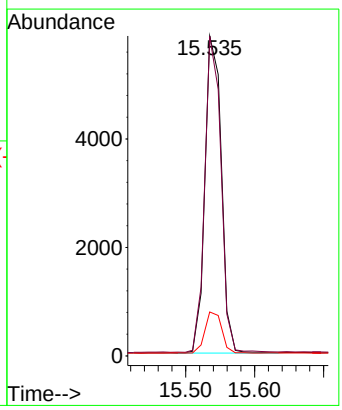


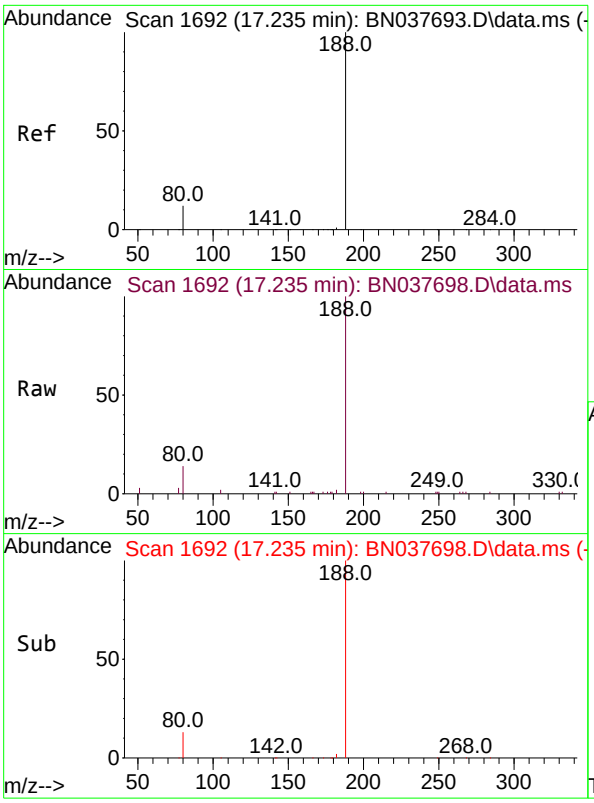


#18
Fluorene
Concen: 0.395 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:166 Resp: 9460

Ion	Ratio	Lower	Upper
166	100		
165	97.0	79.6	119.4
167	12.8	10.6	16.0



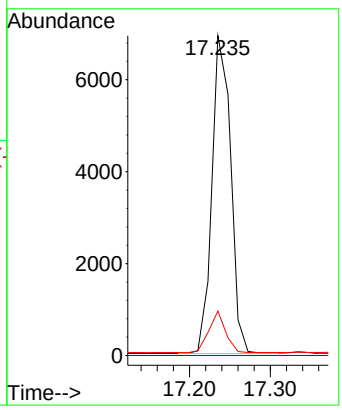


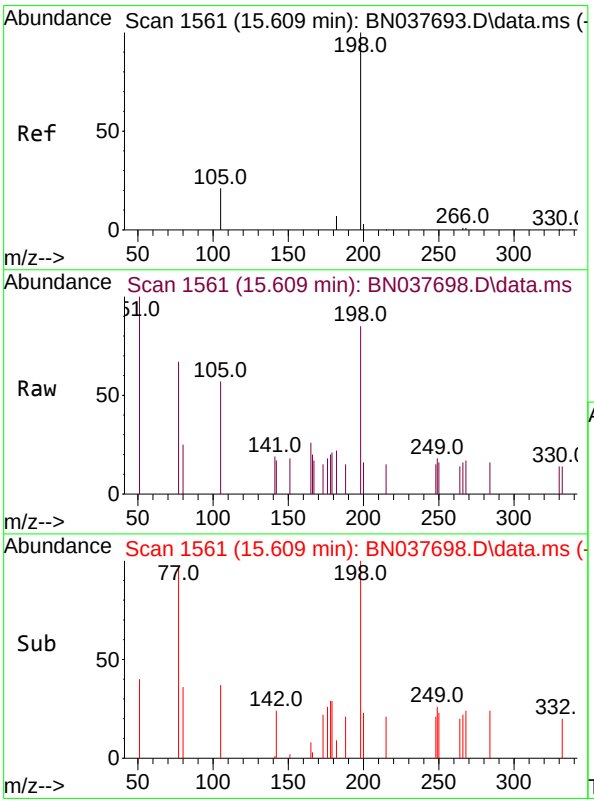
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:188 Resp: 11165

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.9	10.6	15.8

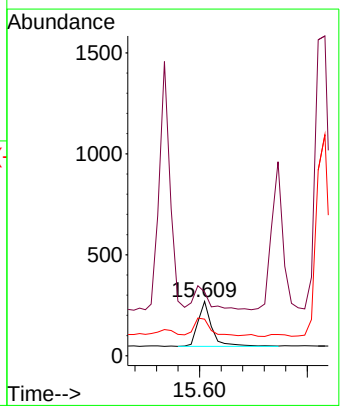


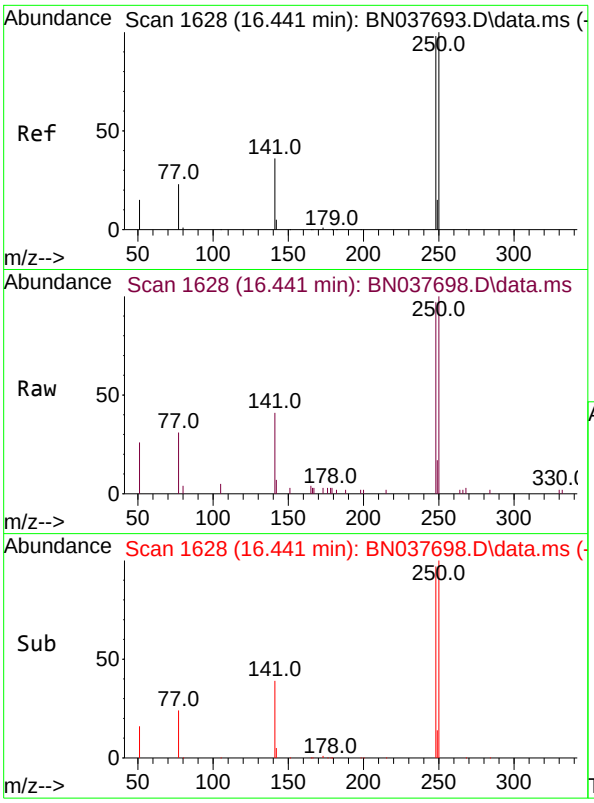


#20
4,6-Dinitro-2-methylphenol
Concen: 0.379 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:198 Resp: 392

Ion	Ratio	Lower	Upper
198	100		
51	117.5	95.1	142.7
105	67.3	53.8	80.6



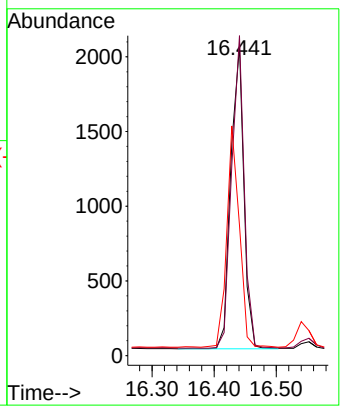


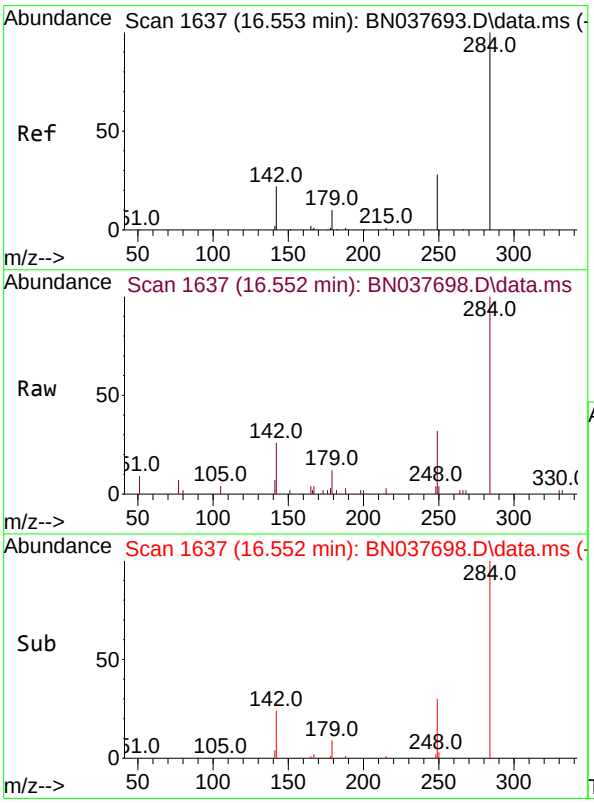
#21
4-Bromophenyl-phenylether
Concen: 0.409 ng
RT: 16.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:248 Resp: 2975

Ion	Ratio	Lower	Upper
248	100		
250	103.5	81.5	122.3
141	42.2	30.8	46.2

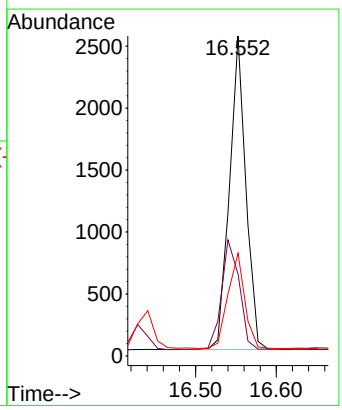


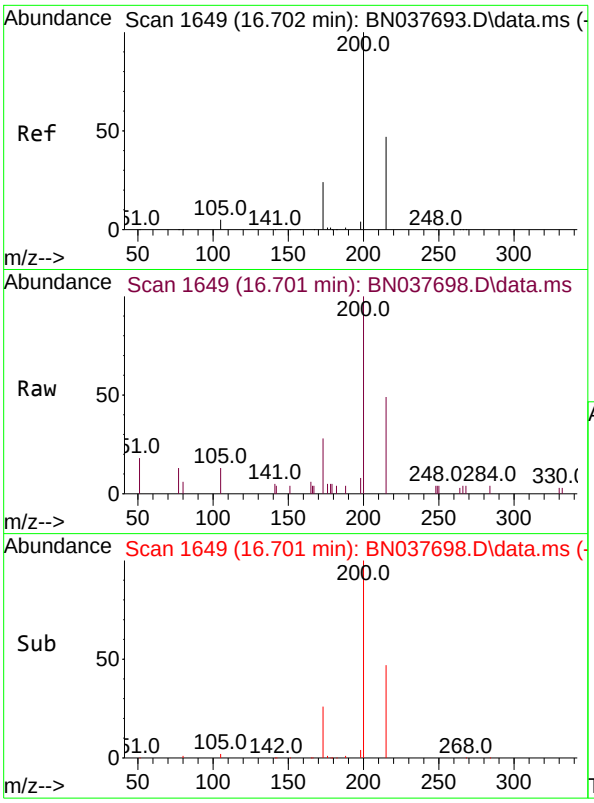


#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.552 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:284 Resp: 3569

Ion	Ratio	Lower	Upper
284	100		
142	37.8	30.9	46.3
249	31.2	24.8	37.2



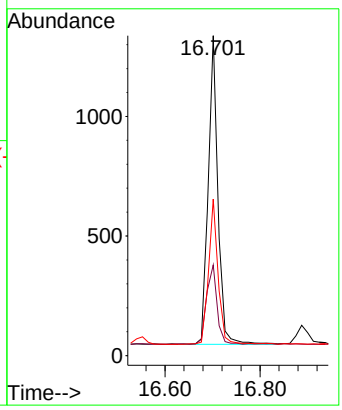


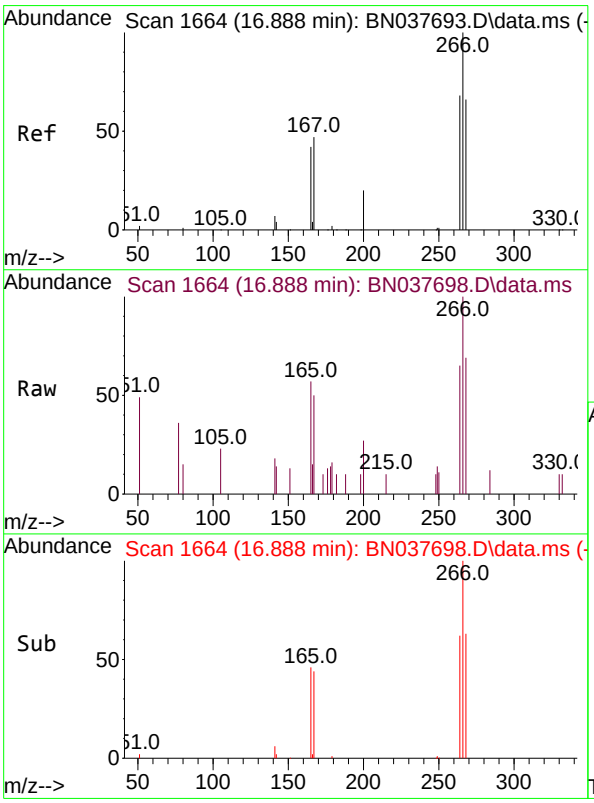
#23
Atrazine
Concen: 0.395 ng
RT: 16.701 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:200 Resp: 1828

Ion	Ratio	Lower	Upper
200	100		
173	28.3	21.4	32.2
215	49.0	39.2	58.8

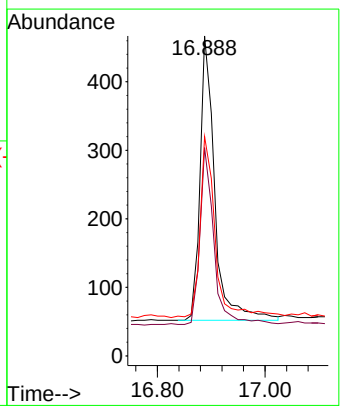


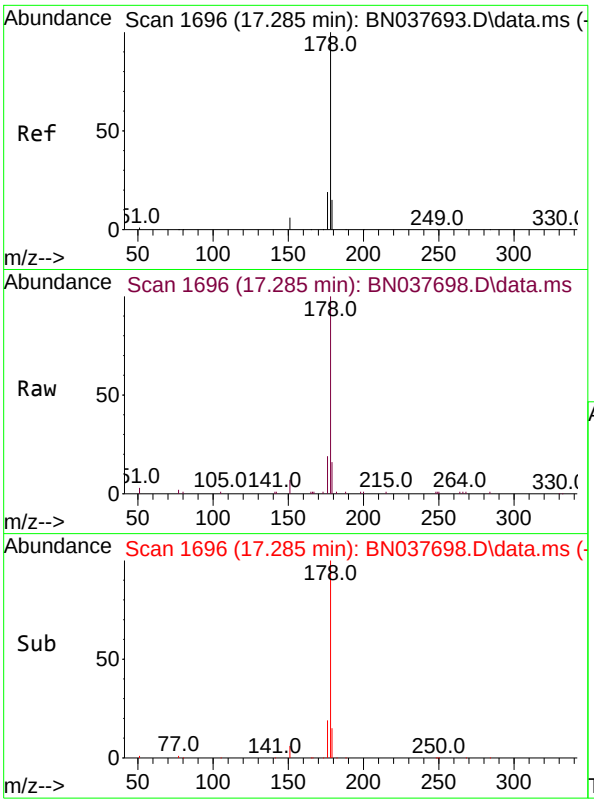


#24
Pentachlorophenol
Concen: 0.323 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:266 Resp: 785

Ion	Ratio	Lower	Upper
266	100		
264	61.0	51.6	77.4
268	66.0	53.2	79.8



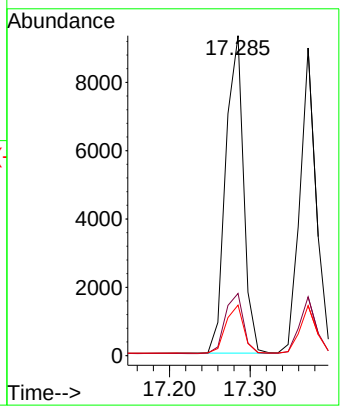


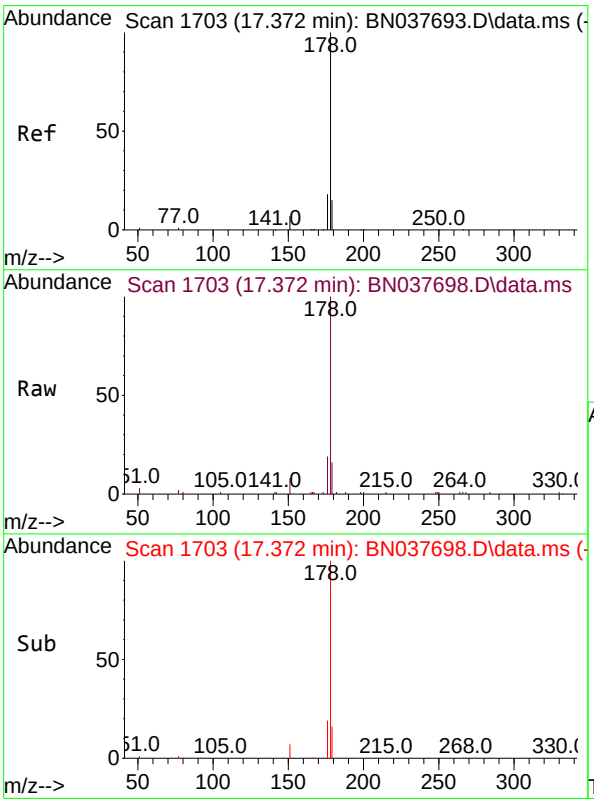
#25
Phenanthrene
Concen: 0.406 ng
RT: 17.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:178 Resp: 14262

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.3	22.9
179	15.6	12.2	18.2

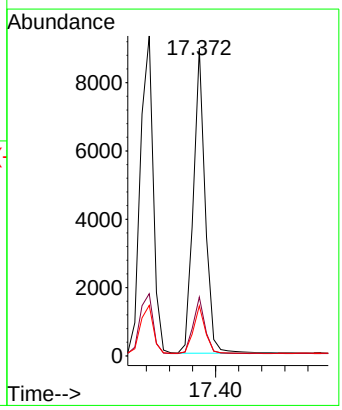


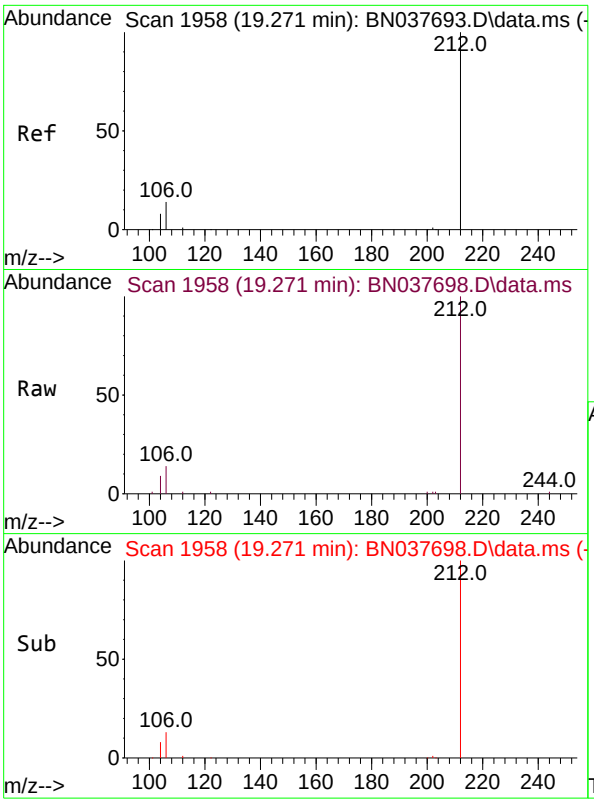


#26
Anthracene
Concen: 0.406 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:178 Resp: 12642

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.7	12.2	18.4



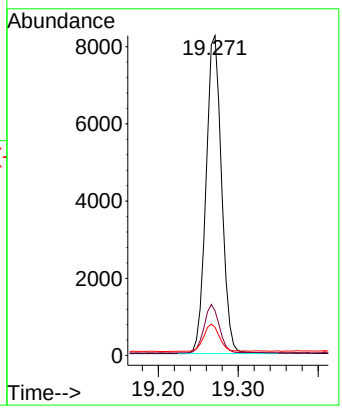


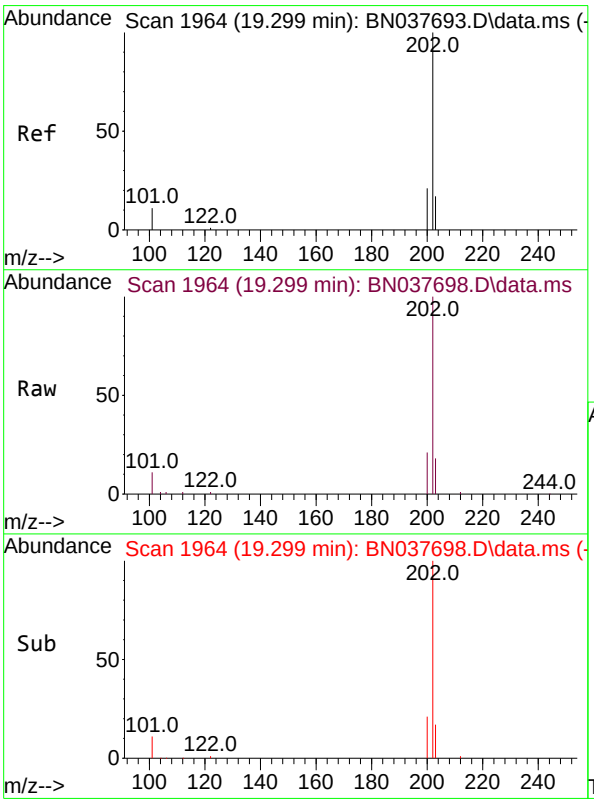
#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 19.271 min Scan# 19
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:212 Resp: 11138

Ion	Ratio	Lower	Upper
212	100		
106	15.1	12.2	18.2
104	8.8	6.9	10.3

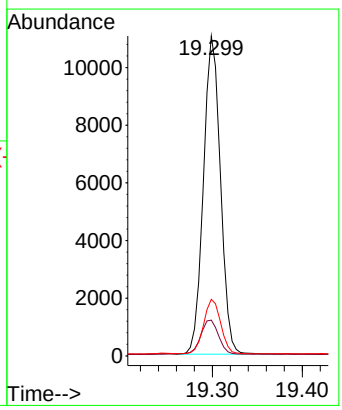


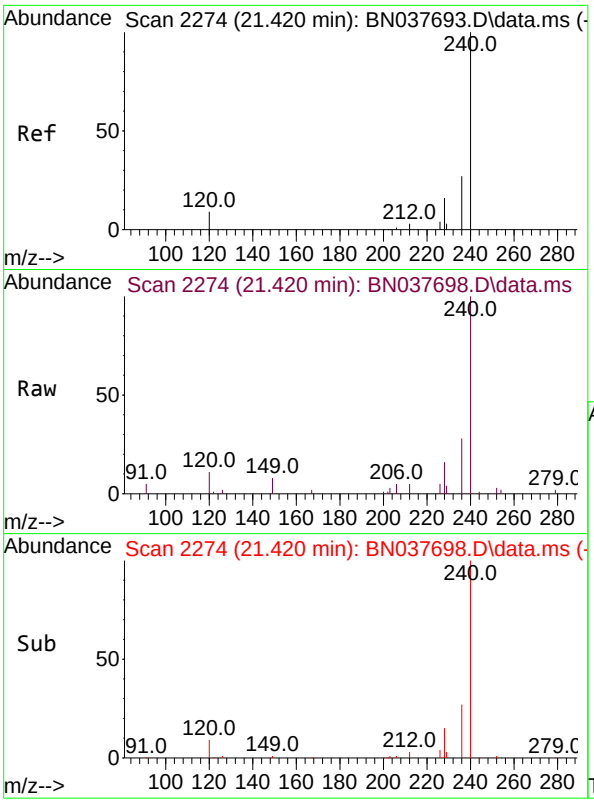


#28
Fluoranthene
Concen: 0.375 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:202 Resp: 14471

Ion	Ratio	Lower	Upper
202	100		
101	11.5	9.3	13.9
203	17.1	13.7	20.5



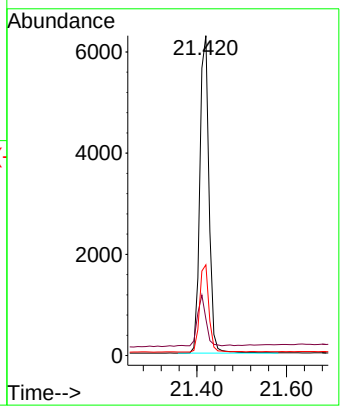


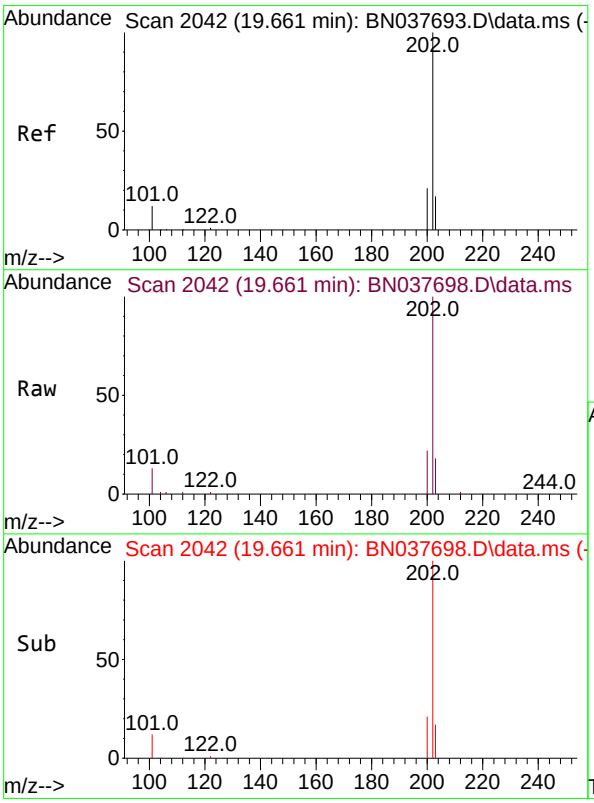
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:240 Resp: 8931

Ion	Ratio	Lower	Upper
240	100		
120	11.5	9.2	13.8
236	28.4	22.6	33.8

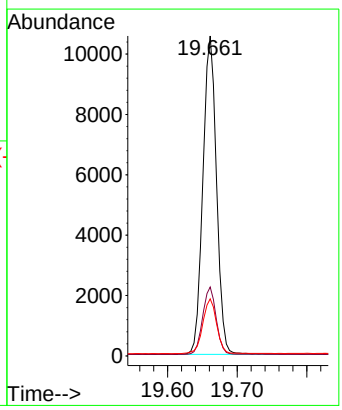


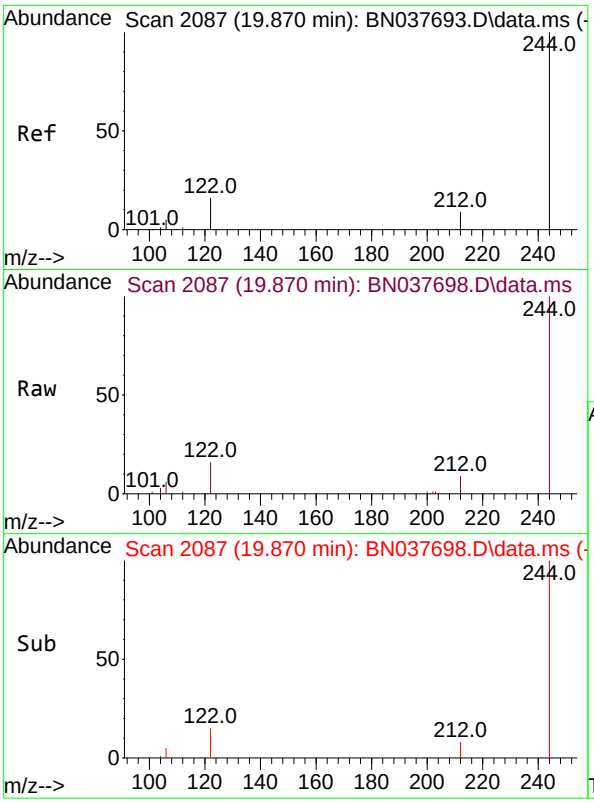


#30
Pyrene
Concen: 0.410 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:202 Resp: 14323

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.6	14.3	21.5



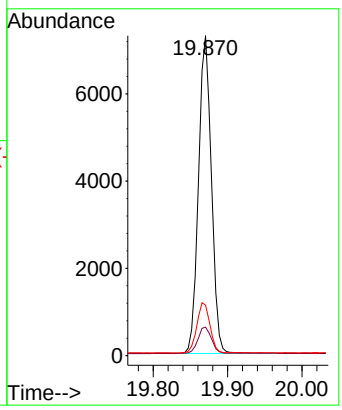


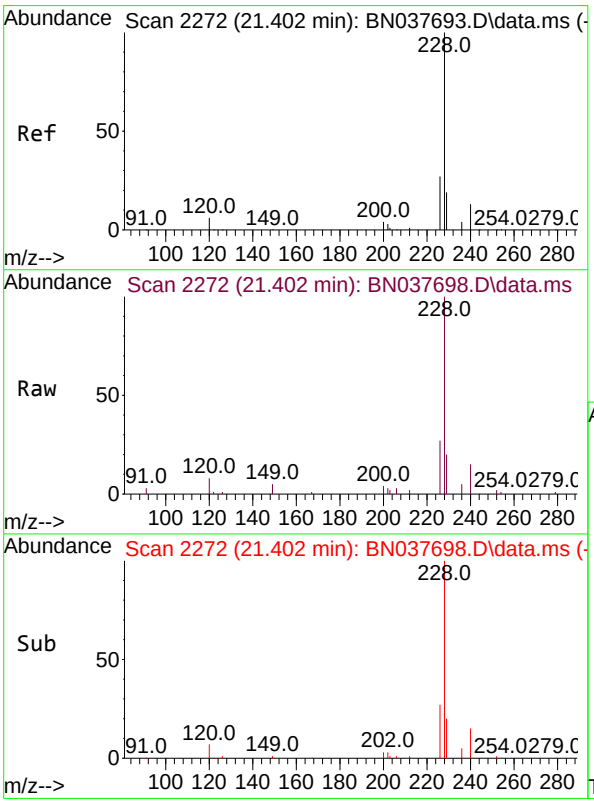
#31
Terphenyl-d14
Concen: 0.484 ng
RT: 19.870 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:244 Resp: 8765

Ion	Ratio	Lower	Upper
244	100		
212	8.9	7.5	11.3
122	15.8	13.2	19.8

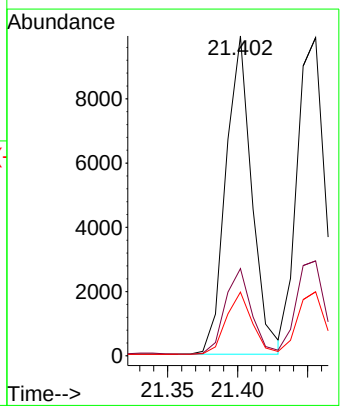


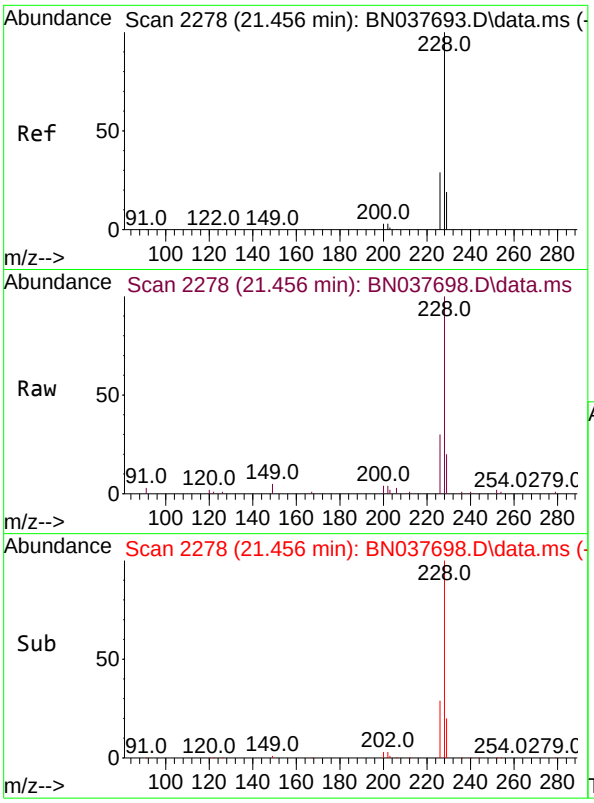


#32
Benzo(a)anthracene
Concen: 0.411 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:228 Resp: 12803

Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.2	33.2
229	19.9	15.8	23.6



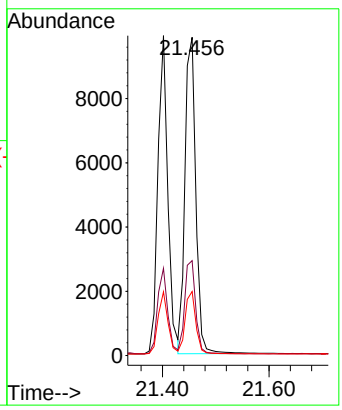


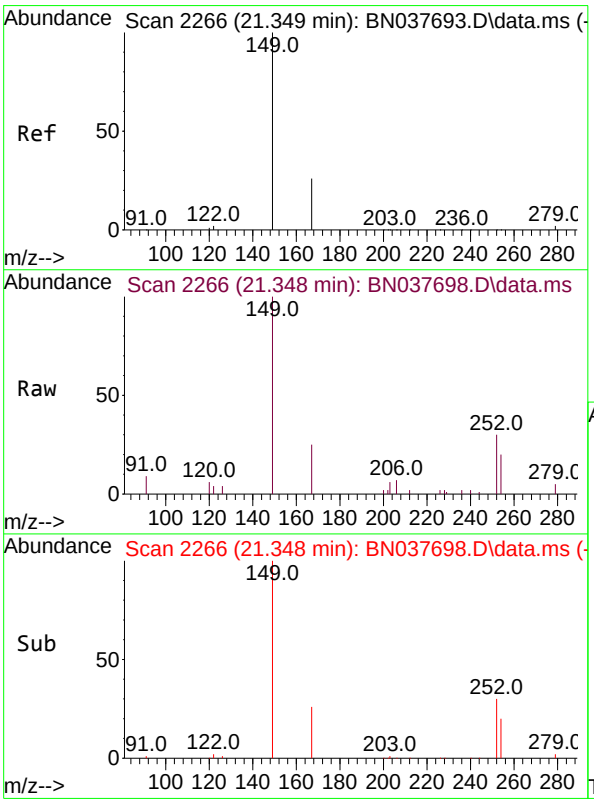
#33
Chrysene
Concen: 0.418 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:228 Resp: 13963

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.5	35.3
229	20.1	15.9	23.9

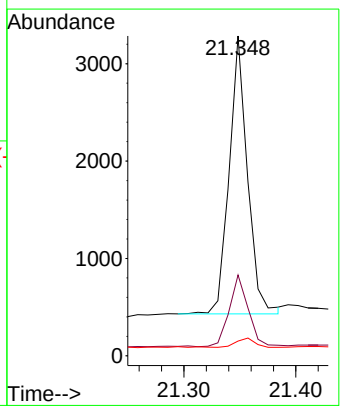


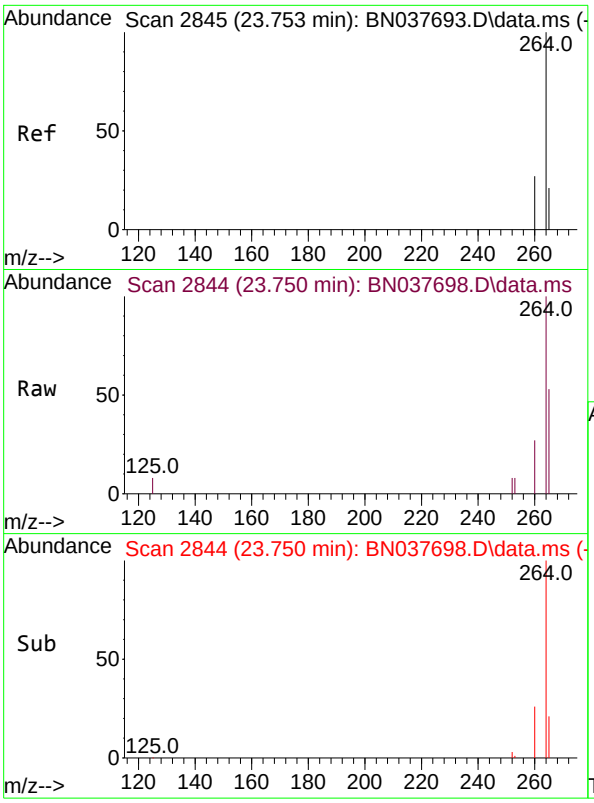


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.351 ng
RT: 21.348 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:149 Resp: 3245

Ion	Ratio	Lower	Upper
149	100		
167	26.8	20.8	31.2
279	3.3	3.3	4.9#



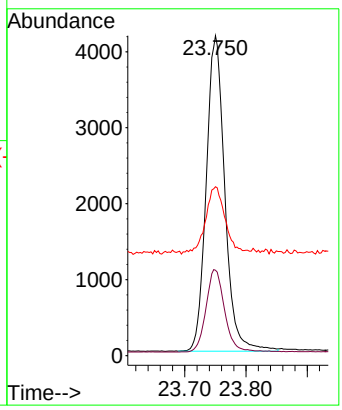


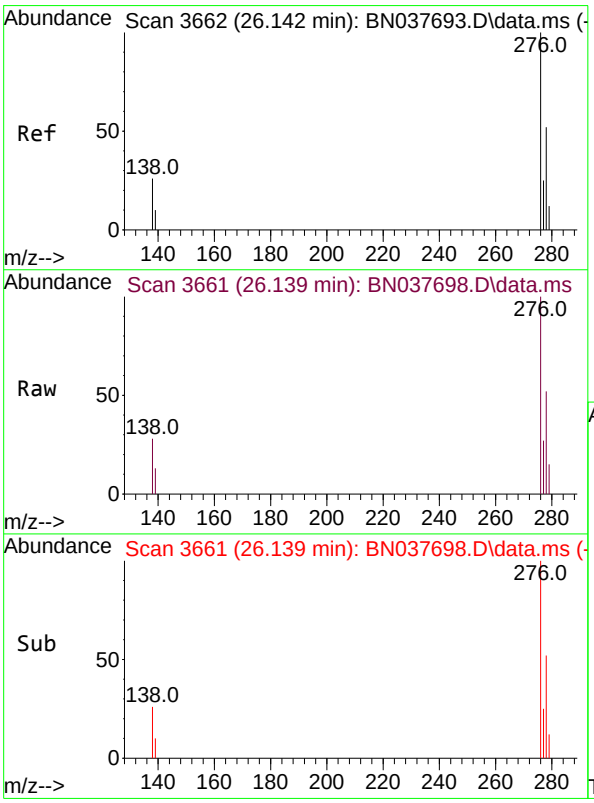
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 28
Delta R.T. -0.003 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:264 Resp: 8751

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.8	32.8
265	52.8	39.4	59.2

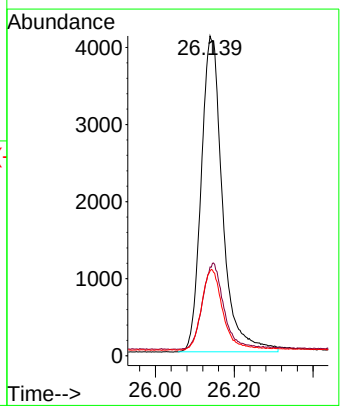


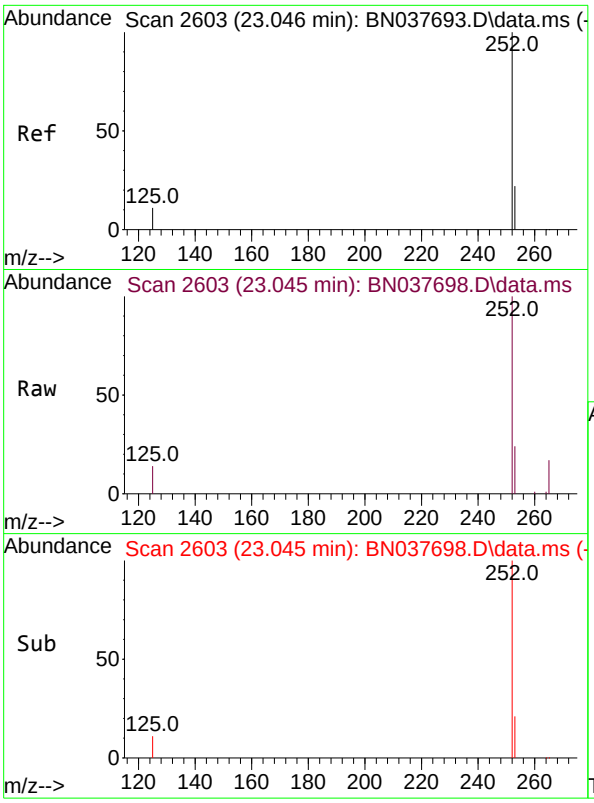


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.420 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.003 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:276 Resp: 15430

Ion	Ratio	Lower	Upper
276	100		
138	27.4	21.9	32.9
277	25.3	20.1	30.1



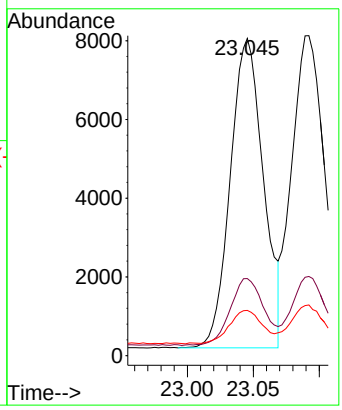


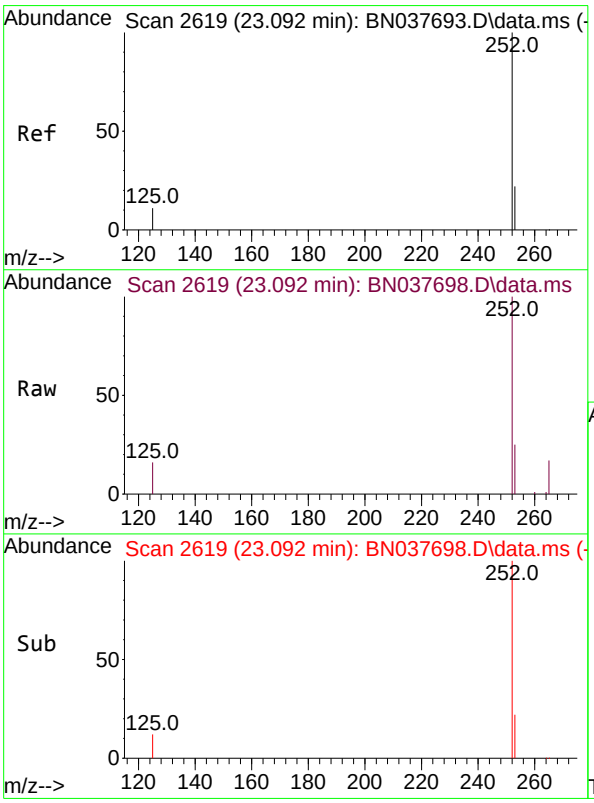
#37
Benzo(b)fluoranthene
Concen: 0.398 ng
RT: 23.045 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:252 Resp: 13718

Ion	Ratio	Lower	Upper
252	100		
253	24.3	19.4	29.2
125	14.3	11.2	16.8

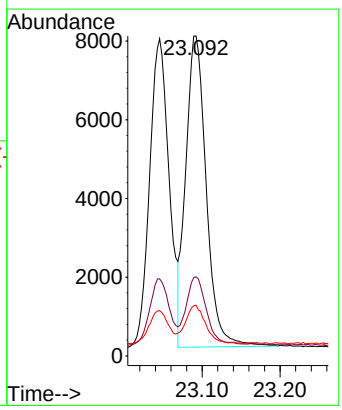


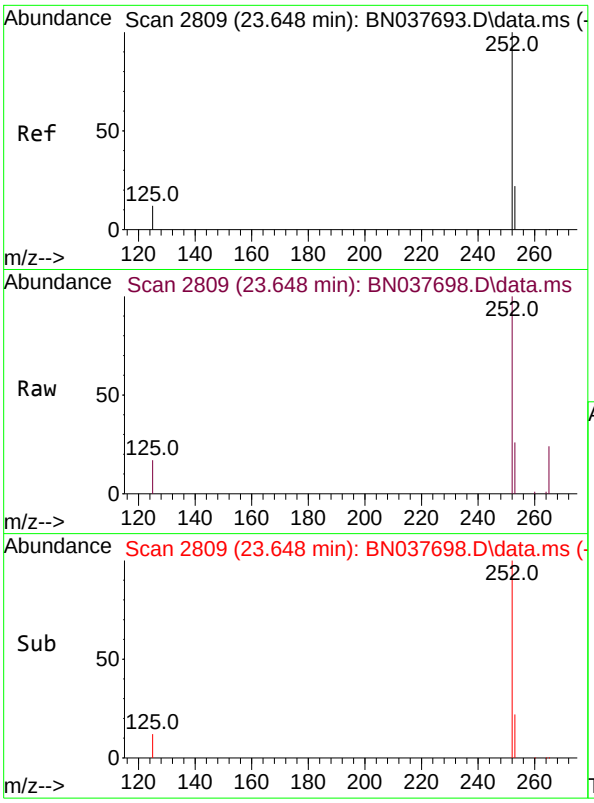


#38
Benzo(k)fluoranthene
Concen: 0.412 ng
RT: 23.092 min Scan# 2619
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:252 Resp: 14465

Ion	Ratio	Lower	Upper
252	100		
253	24.7	19.4	29.0
125	15.8	11.6	17.4



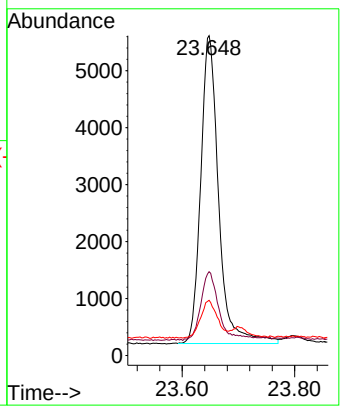


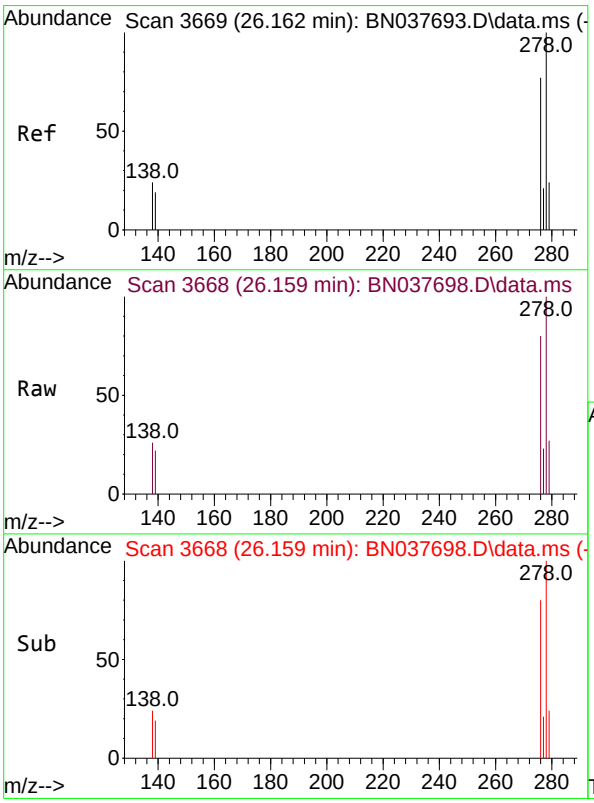
#39
Benzo(a)pyrene
Concen: 0.433 ng
RT: 23.648 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:252 Resp: 11950

Ion	Ratio	Lower	Upper
252	100		
253	26.2	20.8	31.2
125	17.3	13.9	20.9

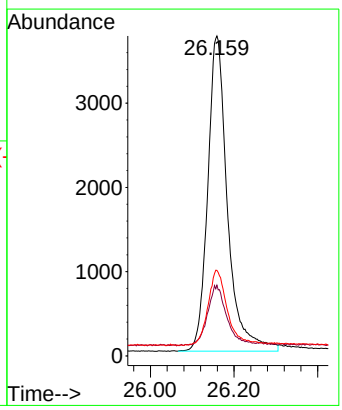


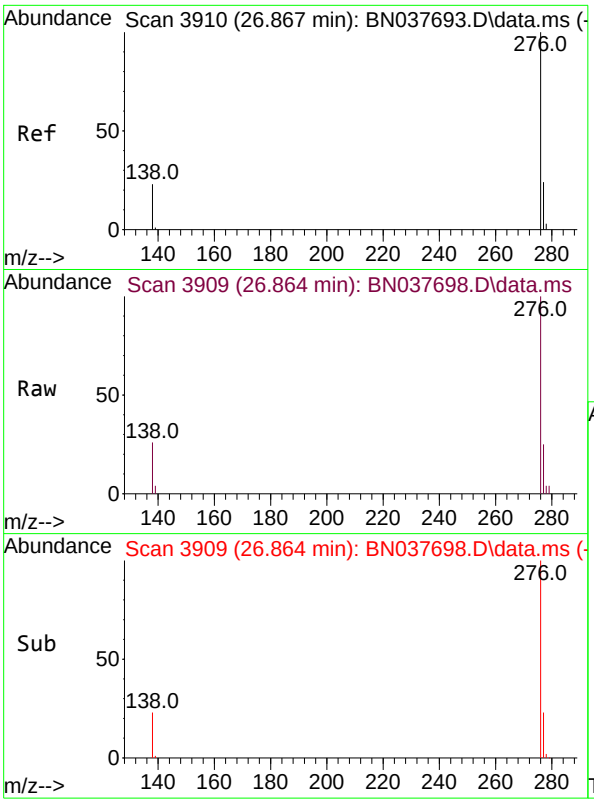


#40
Dibenzo(a,h)anthracene
Concen: 0.419 ng
RT: 26.159 min Scan# 3668
Delta R.T. -0.003 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:278 Resp: 12290

Ion	Ratio	Lower	Upper
278	100		
139	22.1	17.8	26.6
279	26.7	22.0	33.0



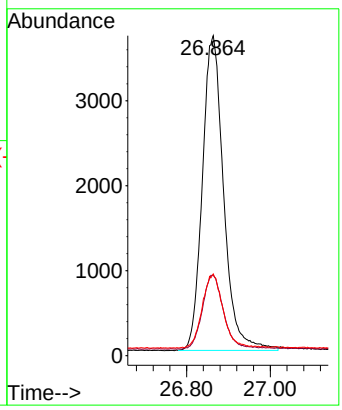


#41
Benzo(g,h,i)perylene
Concen: 0.398 ng
RT: 26.864 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Tgt Ion:276 Resp: 13095

Ion	Ratio	Lower	Upper
276	100		
277	25.1	20.6	31.0
138	25.5	20.2	30.2



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037698.D
Acq On : 11 Sep 2025 14:09
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Quant Time: Sep 11 16:00:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
2		1,4-Dioxane	0.417	0.489	-17.3	117	0.00
3		n-Nitrosodimethylamine	0.544	0.581	-6.8	104	0.00
4	S	2-Fluorophenol	0.918	0.904	1.5	102	0.00
5	S	Phenol-d6	1.191	1.132	5.0	99	0.00
6		bis(2-Chloroethyl)ether	1.064	1.147	-7.8	108	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	102	0.00
8	S	Nitrobenzene-d5	0.293	0.332	-13.3	119	0.00
9		Naphthalene	1.093	1.118	-2.3	106	0.00
10		Hexachlorobutadiene	0.198	0.208	-5.1	108	0.00
11	SURR	2-Methylnaphthalene-d10	0.530	0.563	-6.2	116	0.00
12		2-Methylnaphthalene	0.676	0.634	6.2	98	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
14	S	2,4,6-Tribromophenol	0.104	0.099	4.8	101	0.00
15	S	2-Fluorobiphenyl	1.673	1.991	-19.0	124	0.00
16		Acenaphthylene	1.834	2.007	-9.4	116	0.01
17		Acenaphthene	1.240	1.230	0.8	104	0.00
18		Fluorene	1.502	1.485	1.1	106	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	99	0.00
20		4,6-Dinitro-2-methylphenol	0.037	0.035	5.4	105	0.00
21		4-Bromophenyl-phenylether	0.261	0.266	-1.9	105	0.00
22		Hexachlorobenzene	0.300	0.320	-6.7	108	0.00
23		Atrazine	0.166	0.164	1.2	107	0.00
24		Pentachlorophenol	0.087	0.070	19.5	94	0.00
25		Phenanthrene	1.259	1.277	-1.4	104	0.00
26		Anthracene	1.116	1.132	-1.4	105	0.00
27	SURR	Fluoranthene-d10	1.004	0.998	0.6	106	0.00
28		Fluoranthene	1.381	1.296	6.2	98	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	95	0.00
30		Pyrene	1.566	1.604	-2.4	98	0.00
31	S	Terphenyl-d14	0.812	0.981	-20.8	117	0.00
32		Benzo(a)anthracene	1.395	1.434	-2.8	101	0.00
33		Chrysene	1.496	1.563	-4.5	100	0.00
34		Bis(2-ethylhexyl)phthalate	0.414	0.363	12.3	92	0.00
35	I	Perylene-d12	1.000	1.000	0.0	98	0.00
36		Indeno(1,2,3-cd)pyrene	1.681	1.763	-4.9	112	0.00
37		Benzo(b)fluoranthene	1.575	1.568	0.4	98	0.00
38		Benzo(k)fluoranthene	1.606	1.653	-2.9	106	0.00
39	C	Benzo(a)pyrene	1.261	1.366	-8.3	111	0.00
40		Dibenzo(a,h)anthracene	1.342	1.404	-4.6	113	0.00
41		Benzo(g,h,i)perylene	1.506	1.496	0.7	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037698.D
Acq On : 11 Sep 2025 14:09
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Quant Time: Sep 11 16:00:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	101	0.00
2		1,4-Dioxane	0.400	0.469	-17.2	117	0.00
3		n-Nitrosodimethylamine	0.400	0.427	-6.7	104	0.00
4	S	2-Fluorophenol	0.400	0.394	1.5	102	0.00
5	S	Phenol-d6	0.400	0.380	5.0	99	0.00
6		bis(2-Chloroethyl)ether	0.400	0.431	-7.7	108	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	102	0.00
8	S	Nitrobenzene-d5	0.400	0.454	-13.5	119	0.00
9		Naphthalene	0.400	0.409	-2.2	106	0.00
10		Hexachlorobutadiene	0.400	0.420	-5.0	108	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.425	-6.2	116	0.00
12		2-Methylnaphthalene	0.400	0.375	6.3	98	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	103	0.00
14	S	2,4,6-Tribromophenol	0.400	0.379	5.3	101	0.00
15	S	2-Fluorobiphenyl	0.400	0.476	-19.0	124	0.00
16		Acenaphthylene	0.400	0.438	-9.5	116	0.01
17		Acenaphthene	0.400	0.397	0.8	104	0.00
18		Fluorene	0.400	0.395	1.3	106	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	99	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.379	5.3	105	0.00
21		4-Bromophenyl-phenylether	0.400	0.409	-2.2	105	0.00
22		Hexachlorobenzene	0.400	0.426	-6.5	108	0.00
23		Atrazine	0.400	0.395	1.3	107	0.00
24		Pentachlorophenol	0.400	0.323	19.3	94	0.00
25		Phenanthrene	0.400	0.406	-1.5	104	0.00
26		Anthracene	0.400	0.406	-1.5	105	0.00
27	SURR	Fluoranthene-d10	0.400	0.397	0.8	106	0.00
28		Fluoranthene	0.400	0.375	6.3	98	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	95	0.00
30		Pyrene	0.400	0.410	-2.5	98	0.00
31	S	Terphenyl-d14	0.400	0.484	-21.0	117	0.00
32		Benzo(a)anthracene	0.400	0.411	-2.7	101	0.00
33		Chrysene	0.400	0.418	-4.5	100	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.351	12.3	92	0.00
35	I	Perylene-d12	0.400	0.400	0.0	98	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.420	-5.0	112	0.00
37		Benzo(b)fluoranthene	0.400	0.398	0.5	98	0.00
38		Benzo(k)fluoranthene	0.400	0.412	-3.0	106	0.00
39	C	Benzo(a)pyrene	0.400	0.433	-8.2	111	0.00
40		Dibenzo(a,h)anthracene	0.400	0.419	-4.7	113	0.00
41		Benzo(g,h,i)perylene	0.400	0.398	0.5	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Raw Data

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3097

Instrument ID: BNA_N Calibration Date(s): 09/23/2025 09/23/2025

Calibration Time(s): 12:13 15:51

LAB FILE ID: RRF0.1 = BN037861.D RRF0.2 = BN037862.D RRF0.4 = BN037863.D
RRF0.8 = BN037864.D RRF1.6 = BN037865.D RRF3.2 = BN037866.D

COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.515	0.518	0.499	0.504	0.553	0.587	0.556	13.7
Fluoranthene-d10	0.880	0.918	0.887	0.900	1.004	1.085	1.006	17.6
2-Fluorophenol	0.944	0.921	0.856	0.839	0.908	0.923	0.913	5.8
Phenol-d6	1.190	1.200	1.118	1.088	1.211	1.236	1.199	7.2
Nitrobenzene-d5	0.299	0.289	0.289	0.290	0.310	0.320	0.305	6.1
2-Fluorobiphenyl	1.660	1.631	1.559	1.547	1.654	1.650	1.638	4.4
2,4,6-Tribromophenol	0.148	0.142	0.135	0.139	0.163	0.184	0.152	12.2
Terphenyl-d14	0.799	0.791	0.753	0.735	0.798	0.809	0.797	6.3
1,4-Dioxane		0.413	0.410	0.403	0.425	0.410	0.406	4.0

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN092325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 24 11:00:01 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN037861.D 0.2 =BN037862.D 0.4 =BN037863.D 0.8 =BN037864.D 1.6 =BN037865.D 3.2 =BN037866.D 5 =BN037867.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------						
2)		1,4-Dioxane		0.413	0.410	0.403	0.425	0.410	0.376	0.406	4.04
3)		n-Nitrosodimet...		0.541	0.517	0.526	0.561	0.549	0.547	0.540	3.03
4)	S	2-Fluorophenol	0.944	0.921	0.856	0.839	0.908	0.923	0.998	0.913	5.84
5)	S	Phenol-d6	1.190	1.200	1.118	1.088	1.211	1.236	1.353	1.199	7.15
6)		bis(2-Chloroet...	1.133	1.096	1.082	1.066	1.150	1.124	1.143	1.113	2.89
7)	I	Naphthalene-d8	----------	ISTD	----------						
8)	S	Nitrobenzene-d5	0.299	0.289	0.289	0.290	0.310	0.320	0.338	0.305	6.14
9)		Naphthalene	1.105	1.089	1.048	1.051	1.123	1.137	1.160	1.102	3.84
10)		Hexachlorobuta...	0.198	0.184	0.182	0.183	0.192	0.188	0.188	0.188	2.94
11)	SURR	2-Methylnaphth...	0.515	0.518	0.499	0.504	0.553	0.587	0.714	0.556	13.74
12)		2-Methylnaphth...	0.678	0.681	0.668	0.682	0.754	0.775	0.802	0.720	7.68
13)	I	Acenaphthene-d10	----------	ISTD	----------						
14)	S	2,4,6-Tribromo...	0.148	0.142	0.135	0.139	0.163	0.184		0.152	12.15
15)	S	2-Fluorobiphenyl	1.660	1.631	1.559	1.547	1.654	1.650	1.762	1.638	4.36
16)		Acenaphthylene	1.698	1.721	1.663	1.680	1.907	1.951	2.094	1.816	9.23
17)		Acenaphthene	1.262	1.230	1.198	1.208	1.351	1.371	1.437	1.294	7.16
18)		Fluorene	1.455	1.455	1.452	1.466	1.664	1.717	1.748	1.565	8.77
19)	I	Phenanthrene-d10	----------	ISTD	----------						
20)		4,6-Dinitro-2-...		0.041	0.044	0.046	0.058	0.071	0.084	0.057	29.75
21)		4-Bromophenyl-...	0.252	0.247	0.244	0.244	0.272	0.275	0.291	0.261	7.07
22)		Hexachlorobenzene	0.317	0.312	0.305	0.300	0.324	0.323	0.332	0.316	3.53
23)		Atrazine	0.180	0.181	0.172	0.178	0.205	0.224	0.249	0.199	14.70
24)		Pentachlorophenol		0.101	0.092	0.097	0.116	0.136		0.108	16.50
25)		Phenanthrene	1.301	1.271	1.230	1.224	1.358	1.379	1.452	1.316	6.37
26)		Anthracene	1.034	1.035	1.023	1.057	1.209	1.275	1.361	1.142	12.10
27)	SURR	Fluoranthene-d10	0.880	0.918	0.887	0.900	1.004	1.085	1.370	1.006	17.59
28)		Fluoranthene	1.278	1.315	1.311	1.358	1.555	1.617	1.713	1.450	12.07
29)	I	Chrysene-d12	----------	ISTD	----------						
30)		Pyrene	1.576	1.600	1.521	1.476	1.607	1.595	1.679	1.579	4.12
31)	S	Terphenyl-d14	0.799	0.791	0.753	0.735	0.798	0.809	0.893	0.797	6.34
32)		Benzo(a)anthra...	1.376	1.359	1.294	1.285	1.423	1.483	1.567	1.398	7.27
33)		Chrysene	1.508	1.526	1.462	1.446	1.559	1.512	1.569	1.512	3.03
34)		Bis(2-ethylhex...		0.592	0.487	0.476	0.518	0.569	0.676	0.553	13.57
35)	I	Perylene-d12	----------	ISTD	----------						

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN092325.M

36)		Indeno(1,2,3-c...	1.715	1.672	1.658	1.707	1.887	1.996	2.159	1.828	10.52
37)		Benzo(b)fluora...	1.599	1.606	1.641	1.590	1.810	1.848	1.981	1.725	8.95
38)		Benzo(k)fluora...	1.620	1.586	1.597	1.628	1.875	1.917	1.926	1.736	9.26
39)	C	Benzo(a)pyrene	1.254	1.296	1.231	1.254	1.413	1.492	1.610	1.364	10.61
40)		Dibenzo(a,h)an...	1.285	1.283	1.303	1.333	1.495	1.587	1.705	1.427	11.87
41)		Benzo(g,h,i)pe...	1.407	1.381	1.404	1.397	1.521	1.613	1.773	1.499	9.85

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037861.D
Acq On : 23 Sep 2025 12:13
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Sep 23 16:21:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.818	152	5856	0.400	ng		0.00
7) Naphthalene-d8	10.626	136	16223	0.400	ng		0.00
13) Acenaphthene-d10	14.473	164	8379	0.400	ng		0.00
19) Phenanthrene-d10	17.223	188	17197	0.400	ng		0.00
29) Chrysene-d12	21.402	240	13854	0.400	ng		0.00
35) Perylene-d12	23.736	264	13928	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.384	112	1382	0.103	ng		0.00
5) Phenol-d6	6.973	99	1742	0.099	ng		0.00
8) Nitrobenzene-d5	8.971	82	1212	0.098	ng		0.00
11) 2-Methylnaphthalene-d10	12.217	152	2089	0.093	ng		0.00
14) 2,4,6-Tribromophenol	15.969	330	309	0.091	ng		0.00
15) 2-Fluorobiphenyl	13.094	172	3478	0.101	ng		0.00
27) Fluoranthene-d10	19.253	212	3783	0.087	ng		0.00
31) Terphenyl-d14	19.852	244	2766	0.100	ng		0.00
Target Compounds							Qvalue
6) bis(2-Chloroethyl)ether	7.240	93	1658	0.102	ng		99
9) Naphthalene	10.669	128	4483	0.100	ng		96
10) Hexachlorobutadiene	10.979	225	802	0.105	ng	#	96
12) 2-Methylnaphthalene	12.293	142	2749	0.094	ng		98
16) Acenaphthylene	14.195	152	3557	0.093	ng		98
17) Acenaphthene	14.537	154	2644	0.098	ng		99
18) Fluorene	15.523	166	3048	0.093	ng		99
21) 4-Bromophenyl-phenylether	16.416	248	1084	0.097	ng		96
22) Hexachlorobenzene	16.540	284	1361	0.100	ng		99
23) Atrazine	16.689	200	772	0.090	ng	#	95
25) Phenanthrene	17.260	178	5595	0.099	ng		99
26) Anthracene	17.360	178	4446	0.091	ng		99
28) Fluoranthene	19.285	202	5493	0.088	ng		99
30) Pyrene	19.647	202	5458	0.100	ng		99
32) Benzo(a)anthracene	21.393	228	4766	0.098	ng		99
33) Chrysene	21.438	228	5223	0.100	ng		99
36) Indeno(1,2,3-cd)pyrene	26.113	276	5972	0.094	ng		98
37) Benzo(b)fluoranthene	23.031	252	5567	0.093	ng	#	78
38) Benzo(k)fluoranthene	23.075	252	5642	0.093	ng	#	80
39) Benzo(a)pyrene	23.630	252	4368	0.092	ng	#	71
40) Dibenzo(a,h)anthracene	26.127	278	4476	0.090	ng	#	85
41) Benzo(g,h,i)perylene	26.832	276	4900	0.094	ng		93

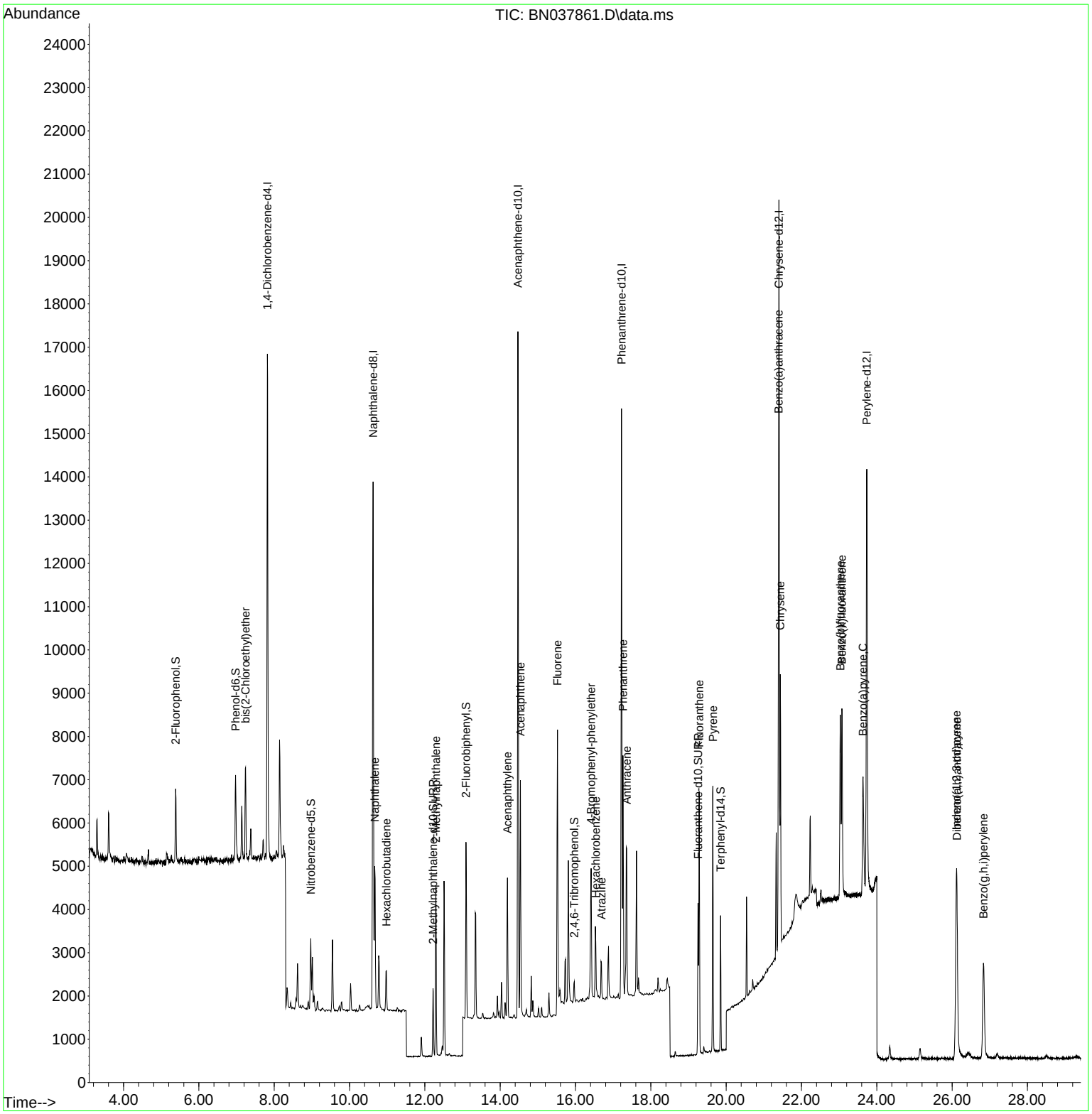
(#) = qualifier out of range (m) = manual integration (+) = signals summed

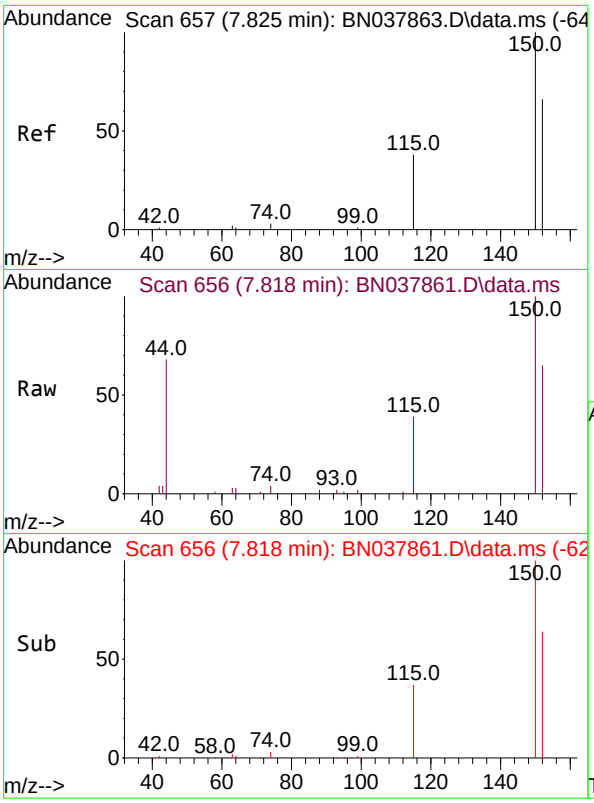
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037861.D
Acq On : 23 Sep 2025 12:13
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Sep 23 16:21:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



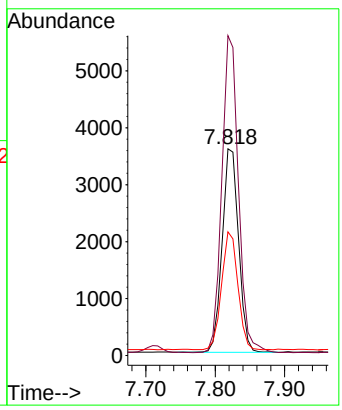


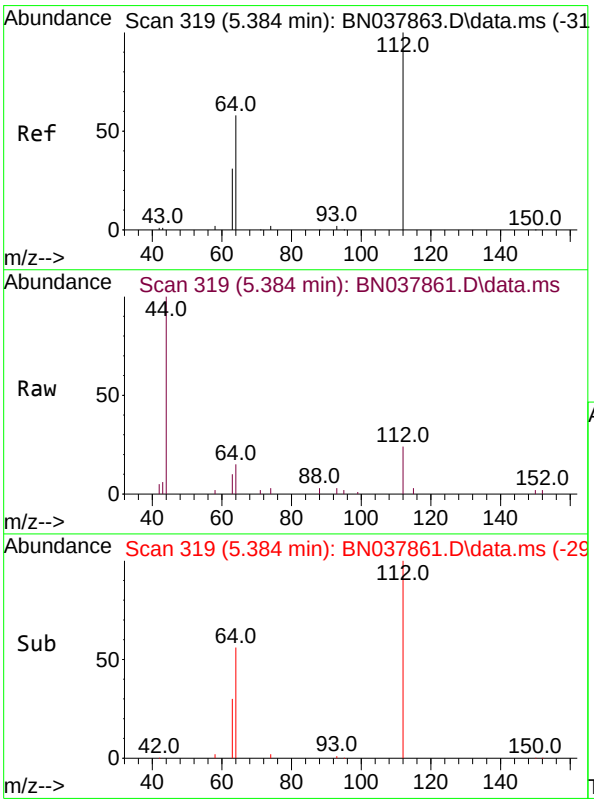
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 5856

Ion	Ratio	Lower	Upper
152	100		
150	154.8	121.0	181.4
115	59.9	47.4	71.0

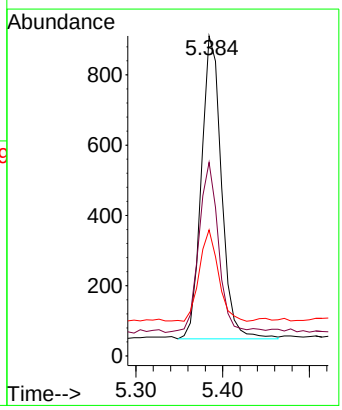


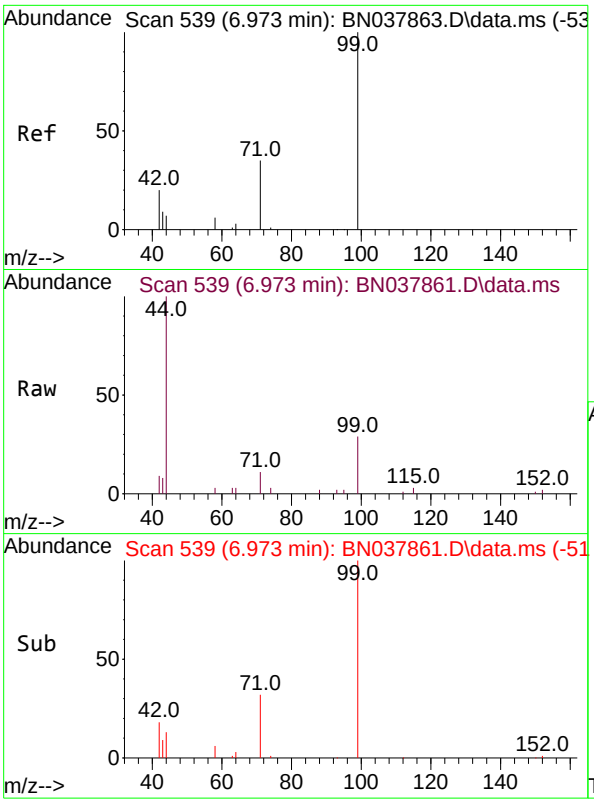


#4
2-Fluorophenol
Concen: 0.103 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:112 Resp: 1382

Ion	Ratio	Lower	Upper
112	100		
64	55.3	44.6	66.8
63	28.7	24.9	37.3



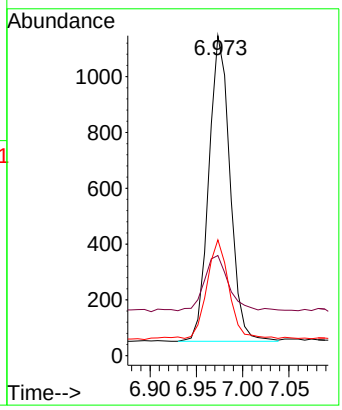


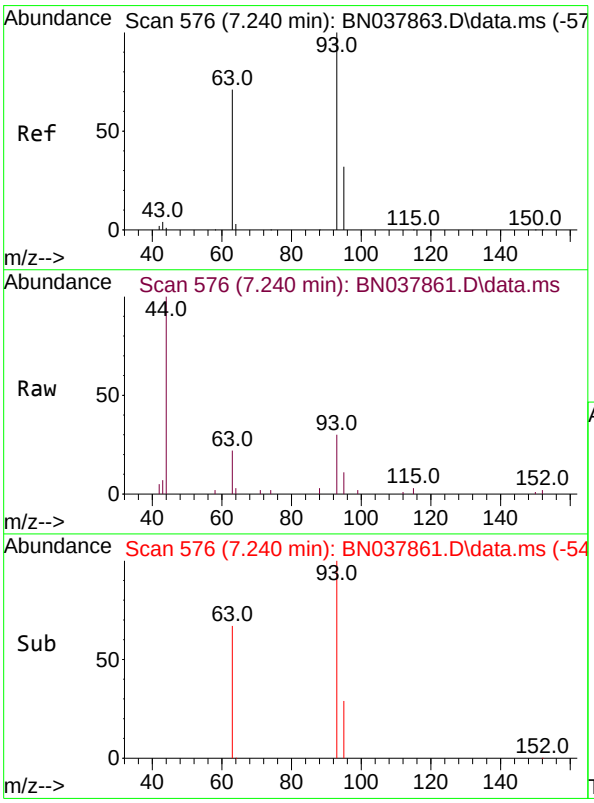
#5
Phenol-d6
Concen: 0.099 ng
RT: 6.973 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 1742

Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.2	25.8
71	33.5	27.3	40.9

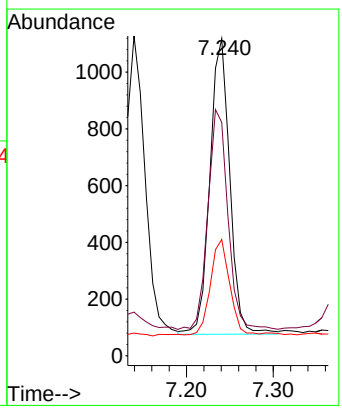


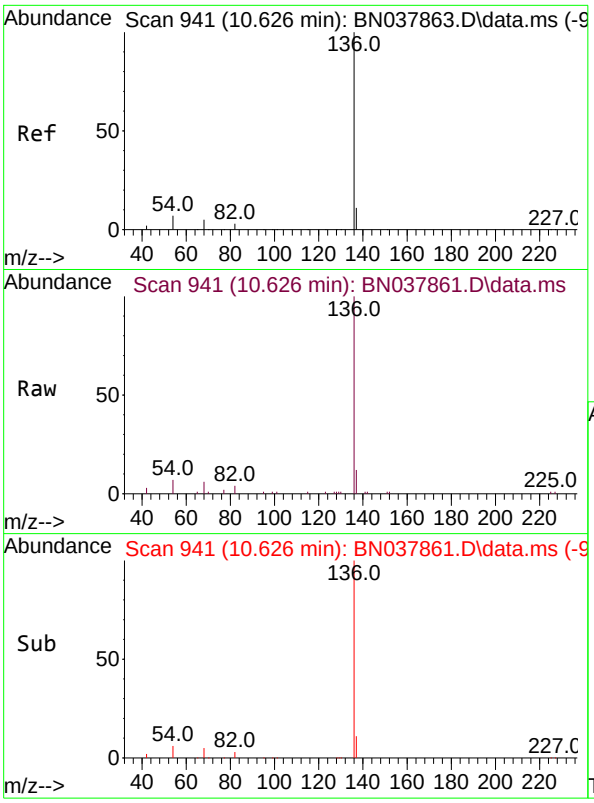


#6
bis(2-Chloroethyl)ether
Concen: 0.102 ng
RT: 7.240 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion: 93 Resp: 1658

Ion	Ratio	Lower	Upper
93	100		
63	75.2	60.1	90.1
95	31.0	25.4	38.2



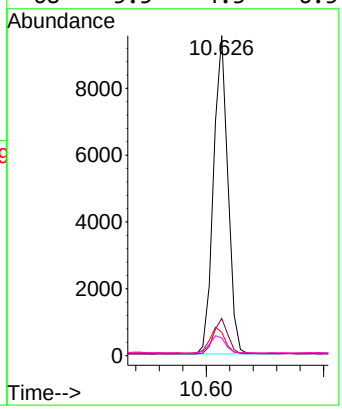


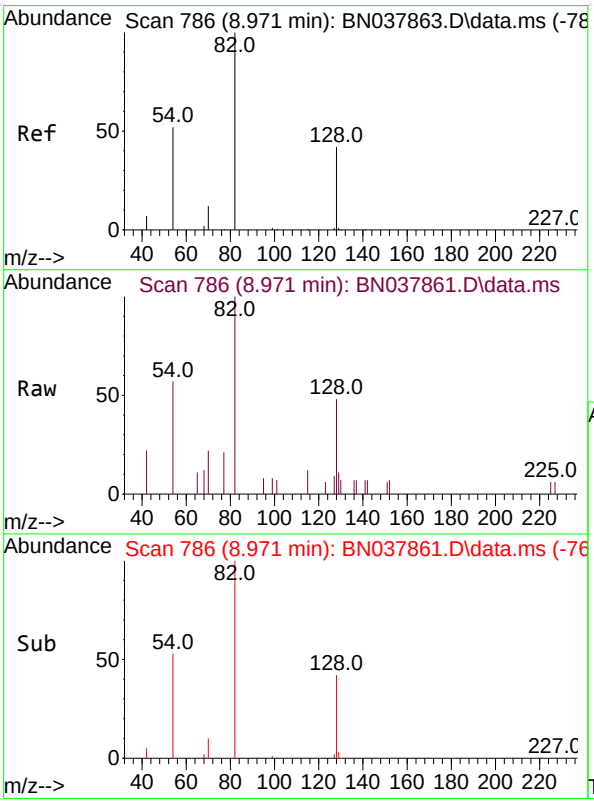
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 16223

Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.0	13.4
54	7.3	5.8	8.8
68	5.5	4.3	6.5

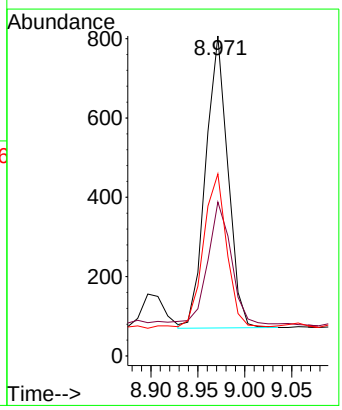


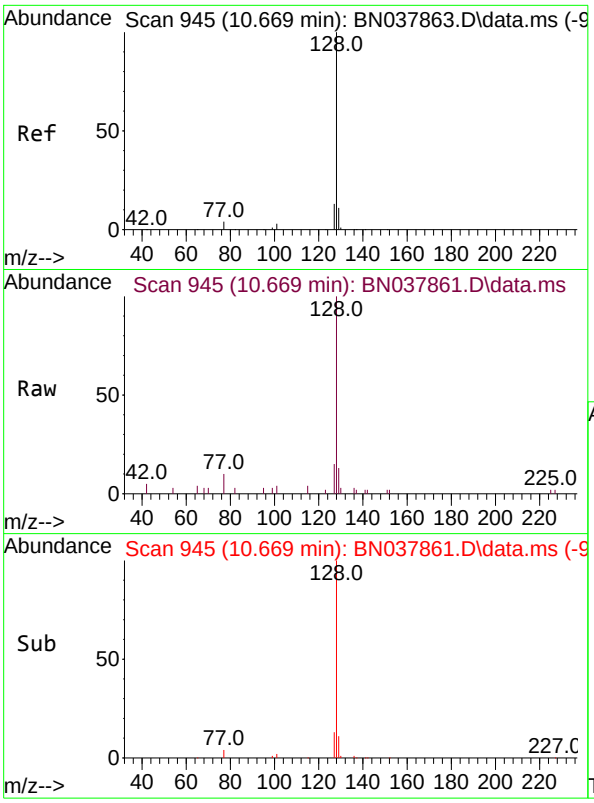


#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion: 82 Resp: 1212

Ion	Ratio	Lower	Upper
82	100		
128	48.1	34.8	52.2
54	56.9	42.2	63.2



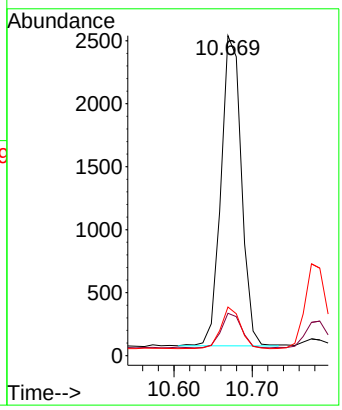


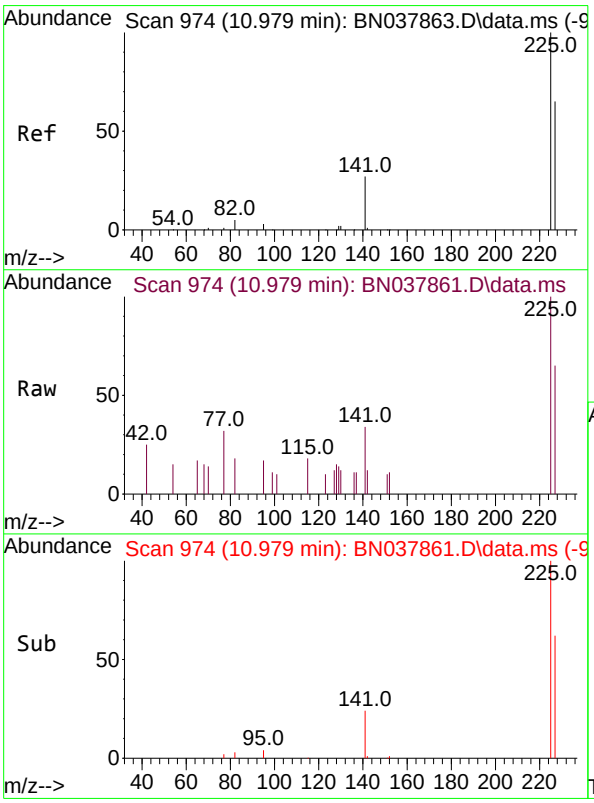
#9
Naphthalene
Concen: 0.100 ng
RT: 10.669 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 4483

Ion	Ratio	Lower	Upper
128	100		
129	13.2	9.2	13.8
127	15.2	11.0	16.6

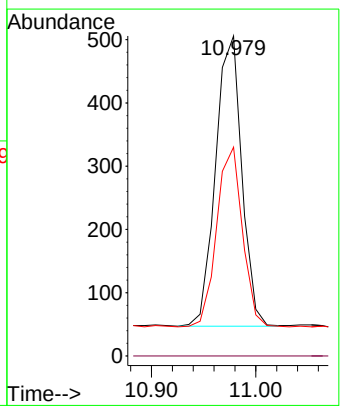


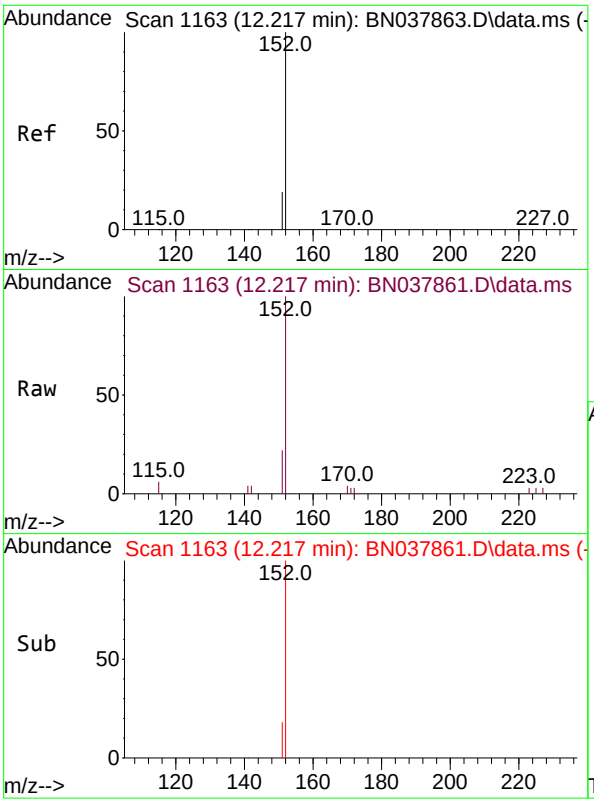


#10
Hexachlorobutadiene
Concen: 0.105 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:225 Resp: 802

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	60.8	51.4	77.2



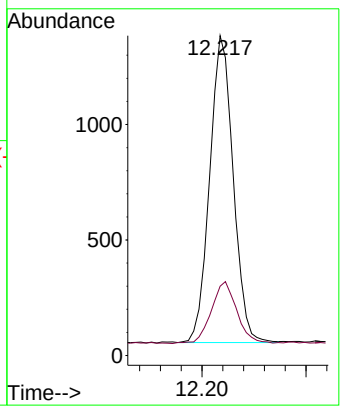


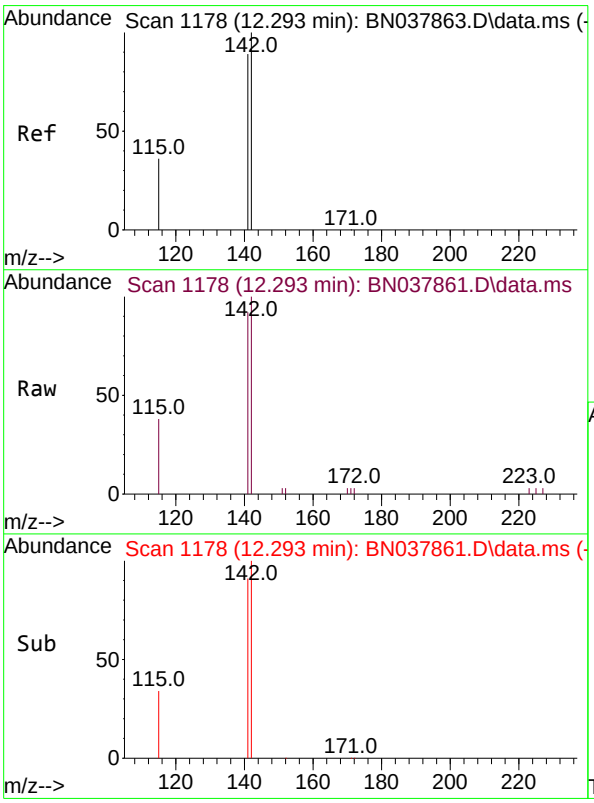
#11
2-Methylnaphthalene-d10
Concen: 0.093 ng
RT: 12.217 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2089

Ion	Ratio	Lower	Upper
152	100		
151	22.0	17.4	26.2

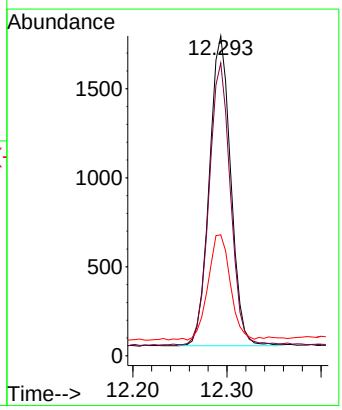


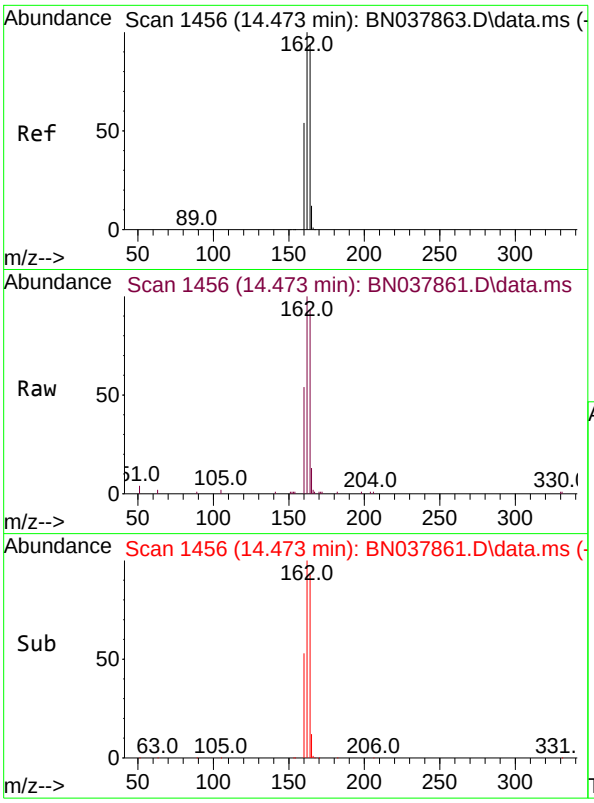


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 12.293 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:142 Resp: 2749

Ion	Ratio	Lower	Upper
142	100		
141	91.5	71.2	106.8
115	37.8	29.7	44.5



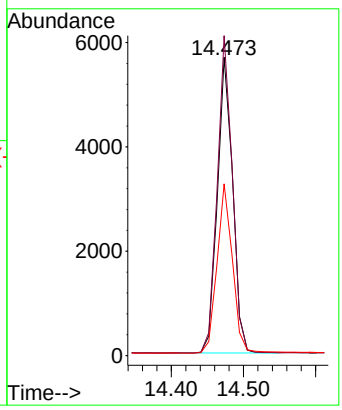


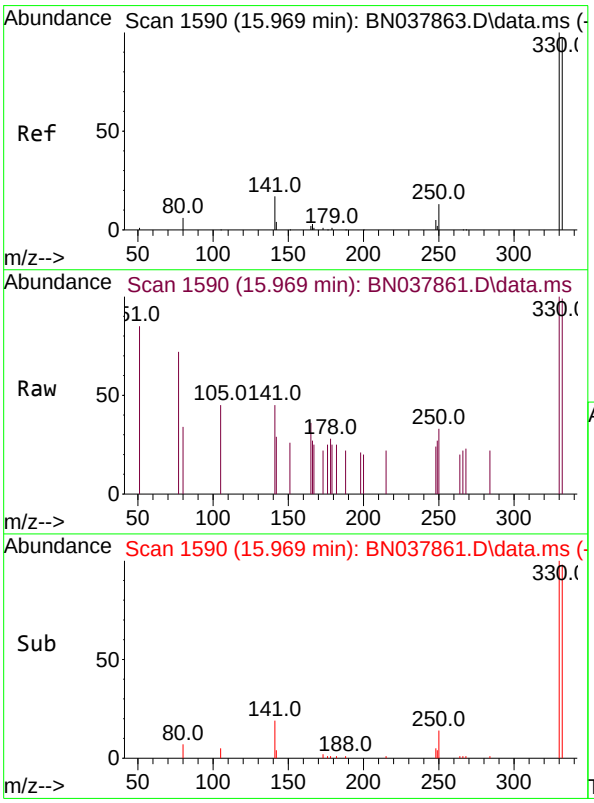
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 8379

Ion	Ratio	Lower	Upper
164	100		
162	107.3	84.8	127.2
160	57.6	46.1	69.1

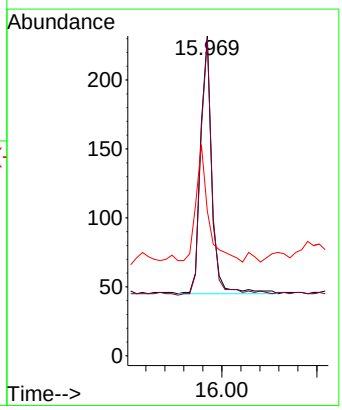


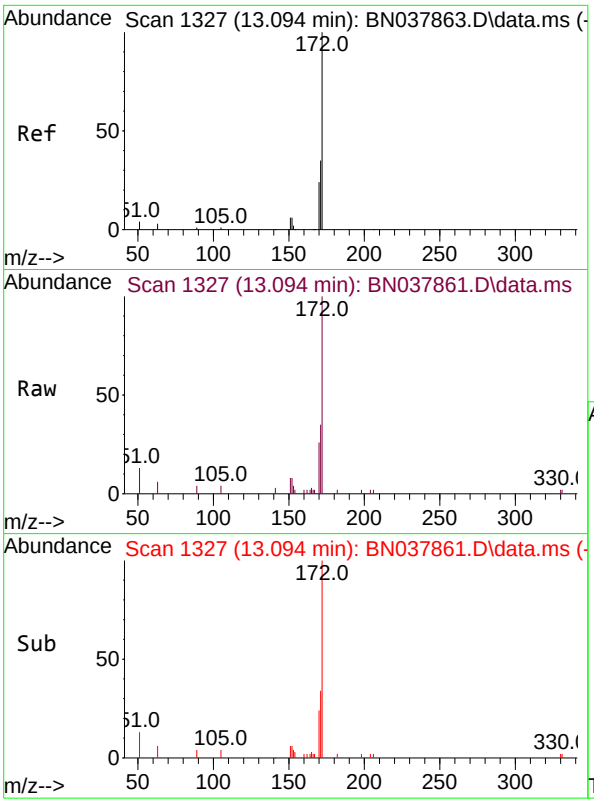


#14
2,4,6-Tribromophenol
Concen: 0.091 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:330 Resp: 309

Ion	Ratio	Lower	Upper
330	100		
332	100.3	77.2	115.8
141	50.8	37.2	55.8



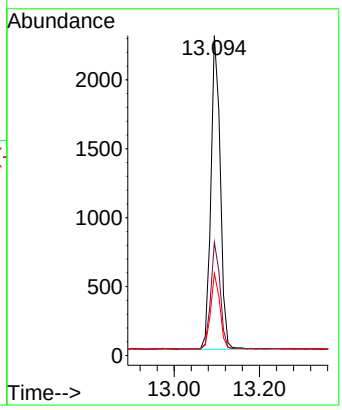


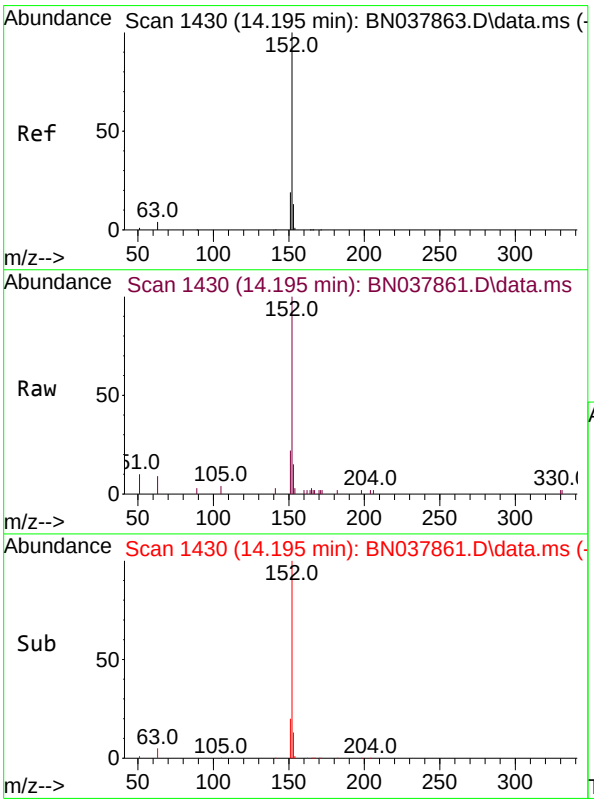
#15
2-Fluorobiphenyl
Concen: 0.101 ng
RT: 13.094 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 3478

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	25.6	19.7	29.5

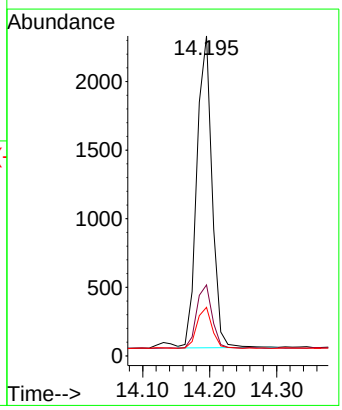


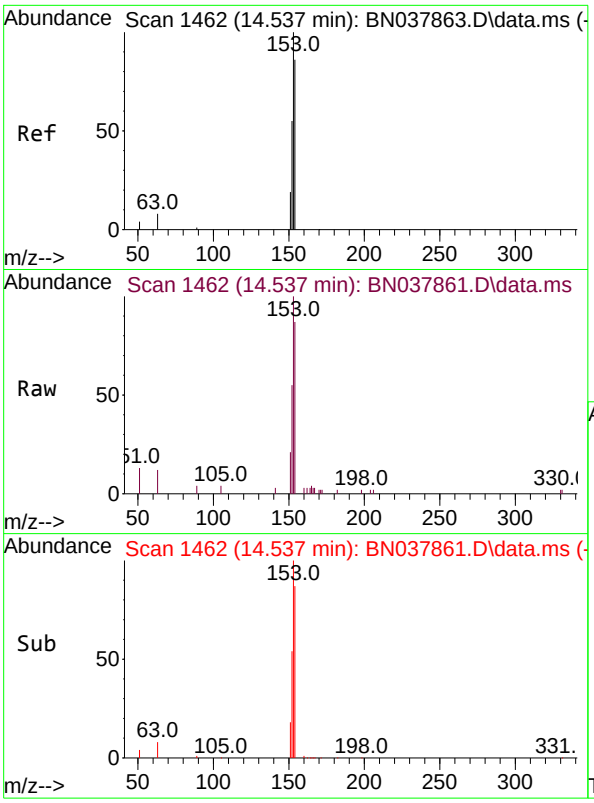


#16
Acenaphthylene
Concen: 0.093 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:152 Resp: 3557

Ion	Ratio	Lower	Upper
152	100		
151	21.2	15.8	23.8
153	13.2	10.5	15.7



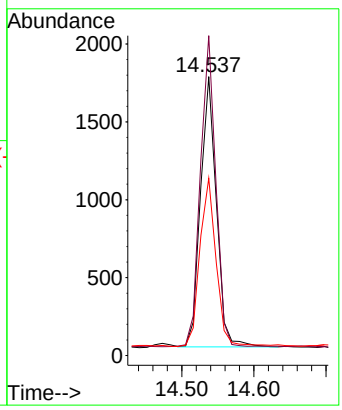


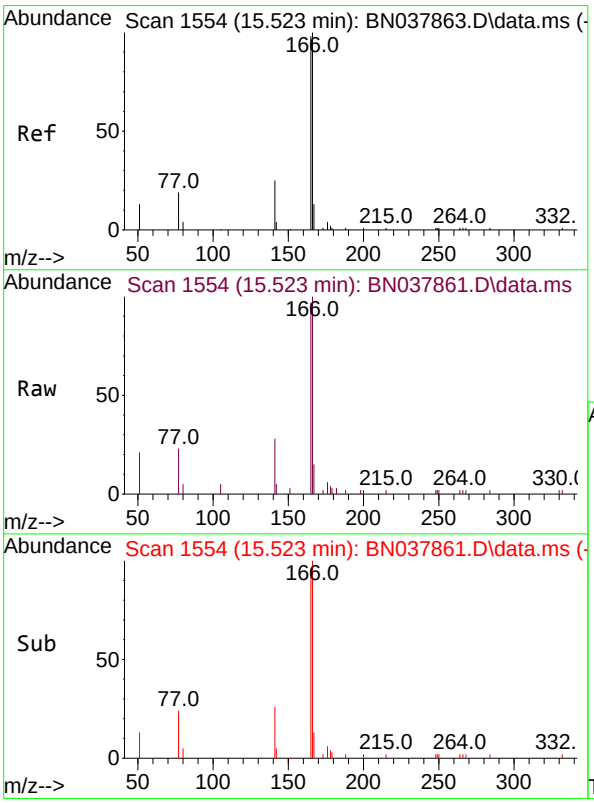
#17
Acenaphthene
Concen: 0.098 ng
RT: 14.537 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 2644

Ion	Ratio	Lower	Upper
154	100		
153	111.7	90.5	135.7
152	64.5	51.8	77.8

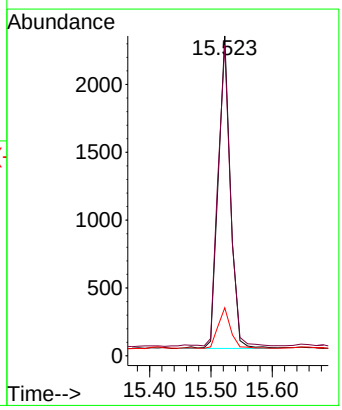


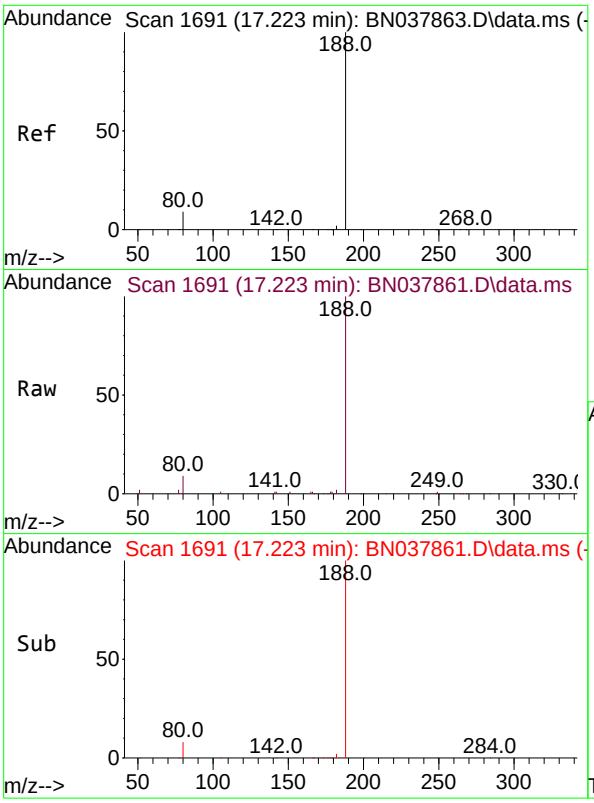


#18
Fluorene
Concen: 0.093 ng
RT: 15.523 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:166 Resp: 3048

Ion	Ratio	Lower	Upper
166	100		
165	100.0	79.0	118.4
167	13.7	10.6	16.0



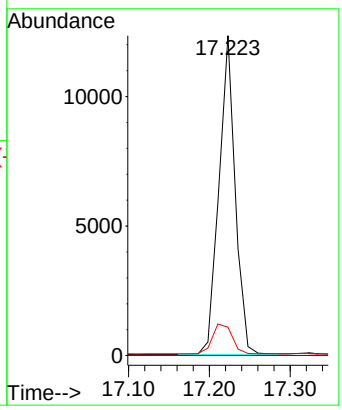


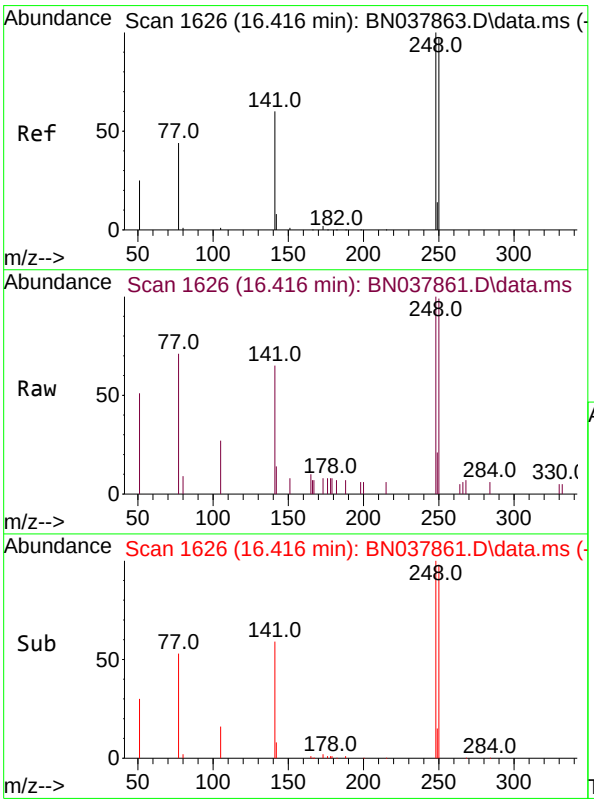
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 17197

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.9	7.6	11.4

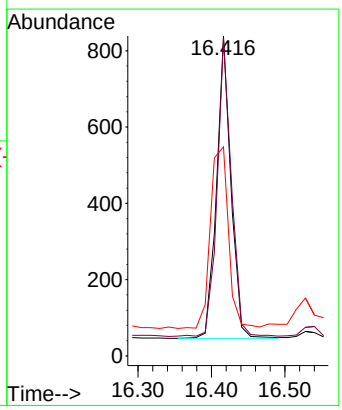


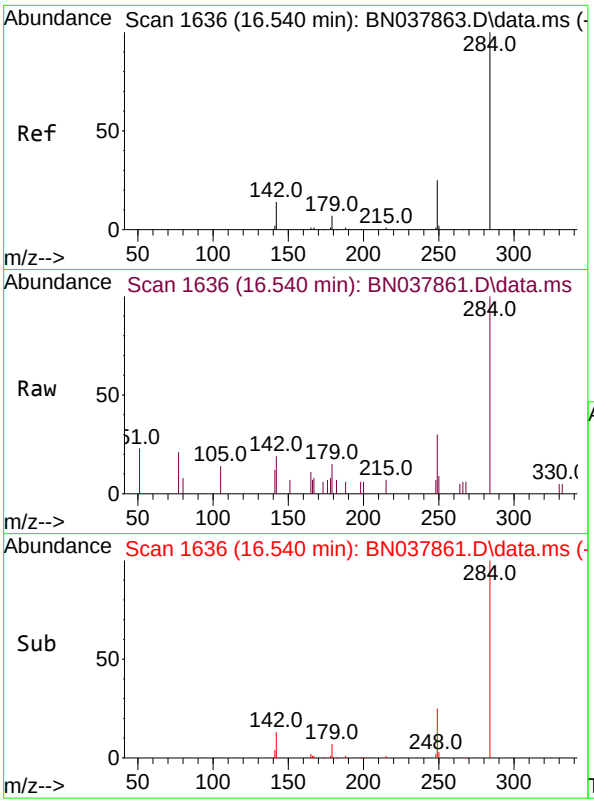


#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:248 Resp: 1084

Ion	Ratio	Lower	Upper
248	100		
250	99.3	77.6	116.4
141	65.3	48.8	73.2



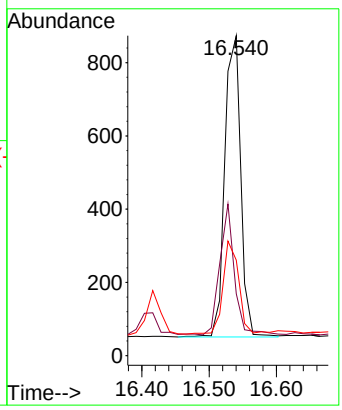


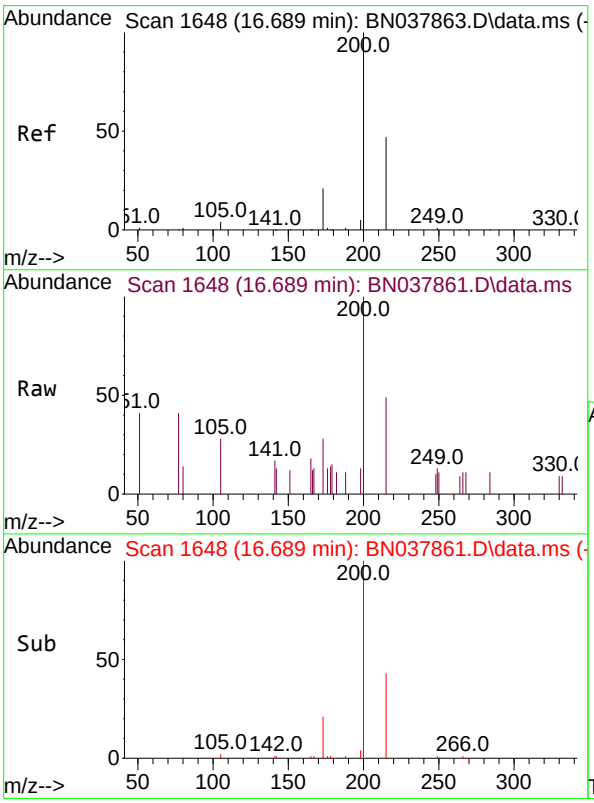
#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.540 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:284 Resp: 1361

Ion	Ratio	Lower	Upper
284	100		
142	38.9	30.9	46.3
249	30.6	23.9	35.9

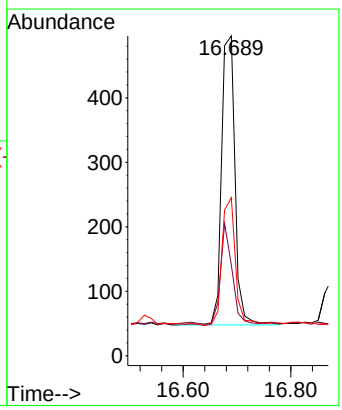


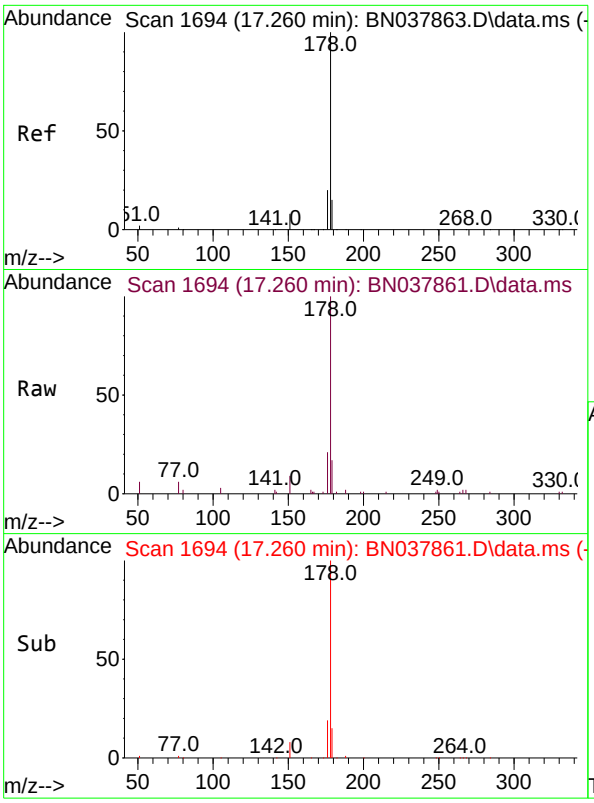


#23
Atrazine
Concen: 0.090 ng
RT: 16.689 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:200 Resp: 772

Ion	Ratio	Lower	Upper
200	100		
173	28.4	18.3	27.5#
215	49.4	38.6	58.0



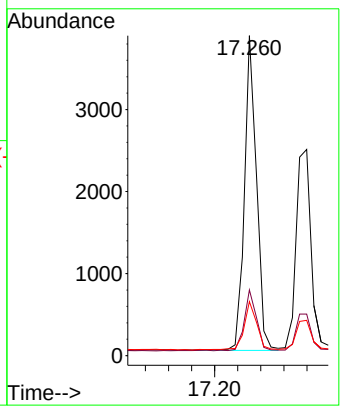


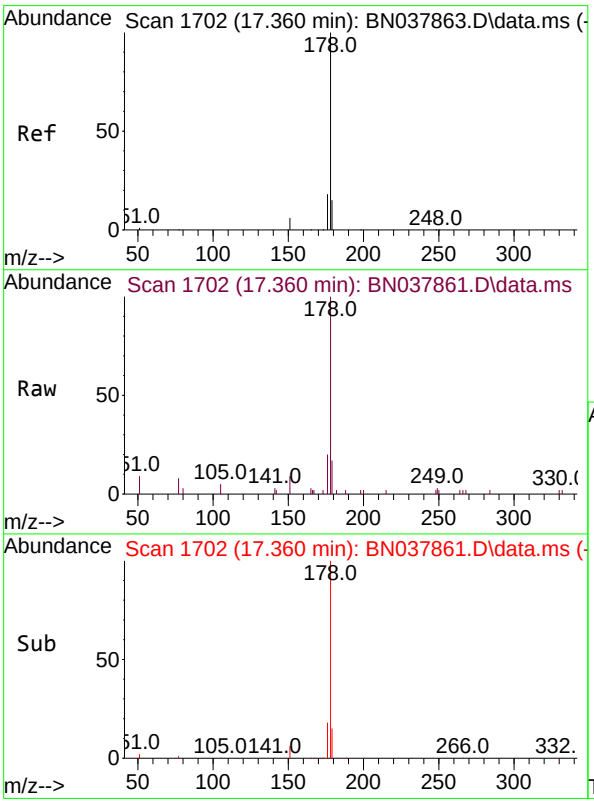
#25
Phenanthrene
Concen: 0.099 ng
RT: 17.260 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 5595

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.7	23.5
179	16.2	12.3	18.5

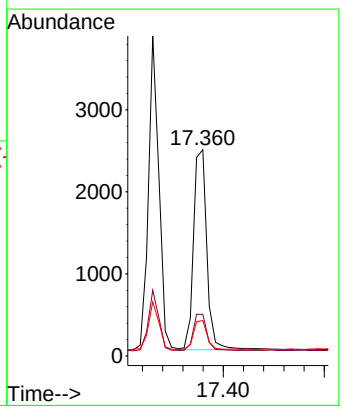


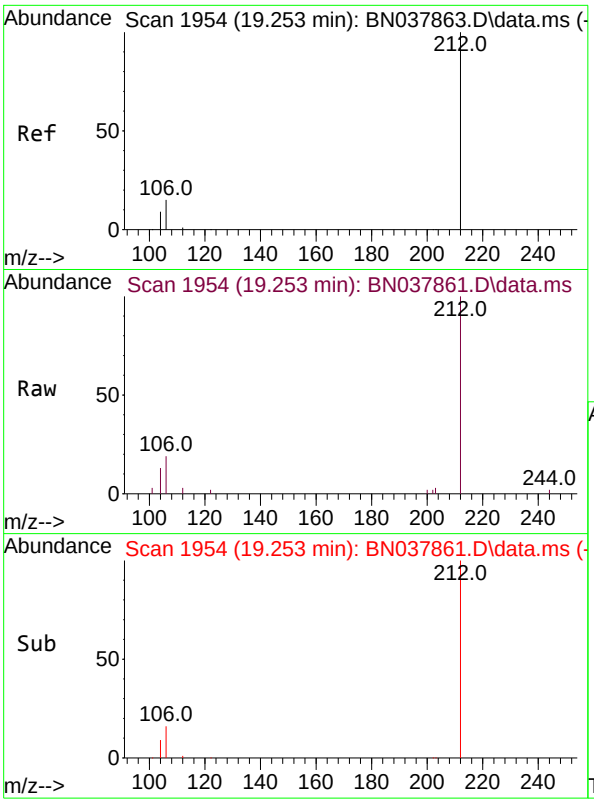


#26
Anthracene
Concen: 0.091 ng
RT: 17.360 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:178 Resp: 4446

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.4
179	14.9	12.3	18.5



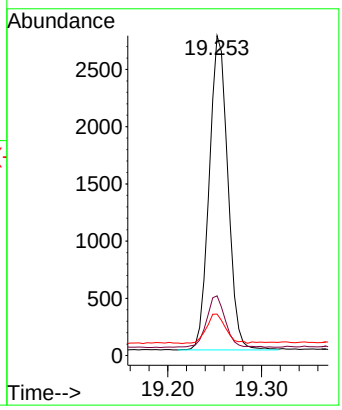


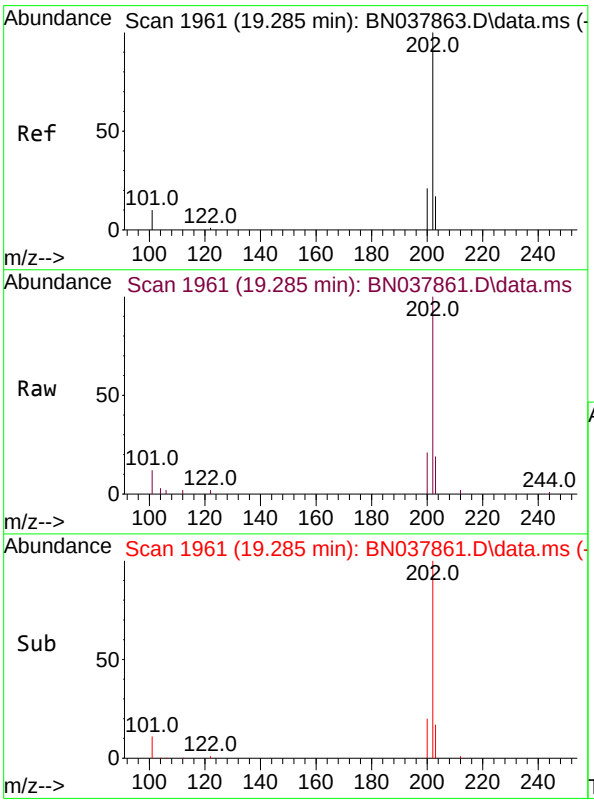
#27
Fluoranthene-d10
Concen: 0.087 ng
RT: 19.253 min Scan# 19
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 3783

Ion	Ratio	Lower	Upper
212	100		
106	16.8	12.6	19.0
104	9.7	7.4	11.0

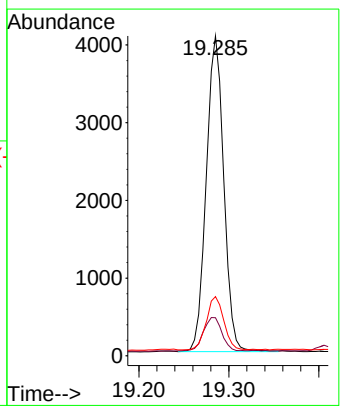


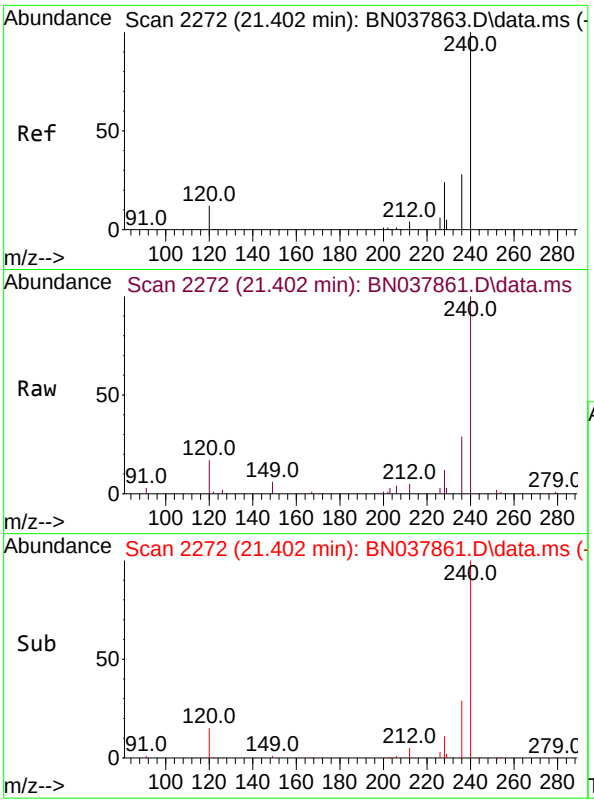


#28
Fluoranthene
Concen: 0.088 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:202 Resp: 5493

Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.3	13.9
203	16.8	13.6	20.4



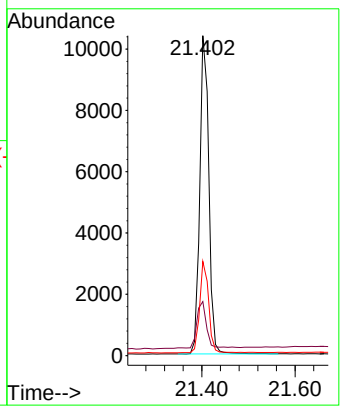


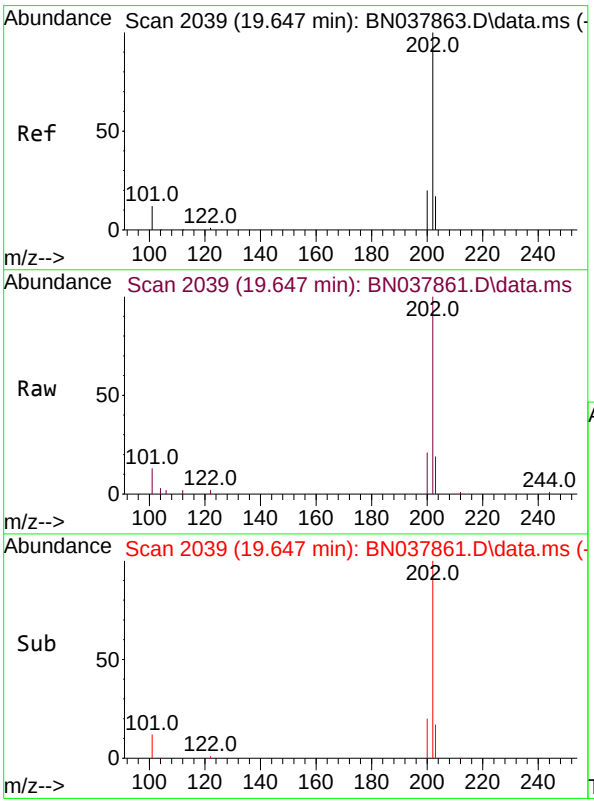
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 13854

Ion	Ratio	Lower	Upper
240	100		
120	16.9	11.4	17.2
236	29.4	23.0	34.6

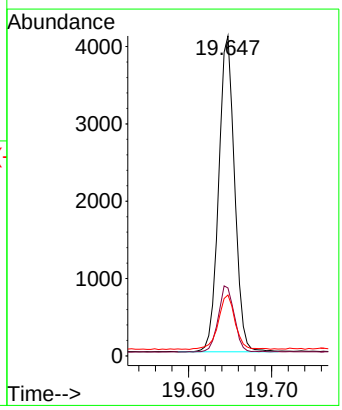


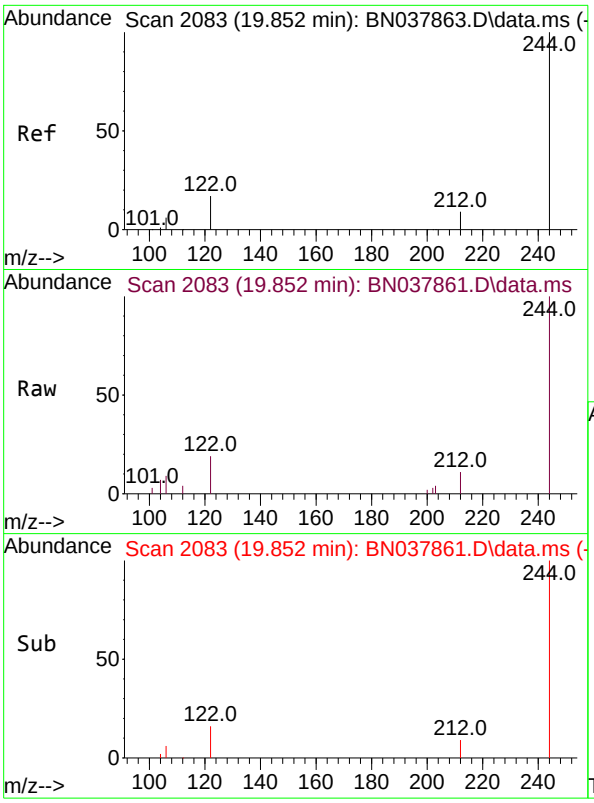


#30
Pyrene
Concen: 0.100 ng
RT: 19.647 min Scan# 2039
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:202 Resp: 5458

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.7	25.1
203	18.2	14.2	21.4



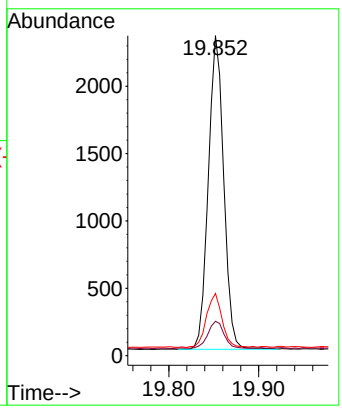


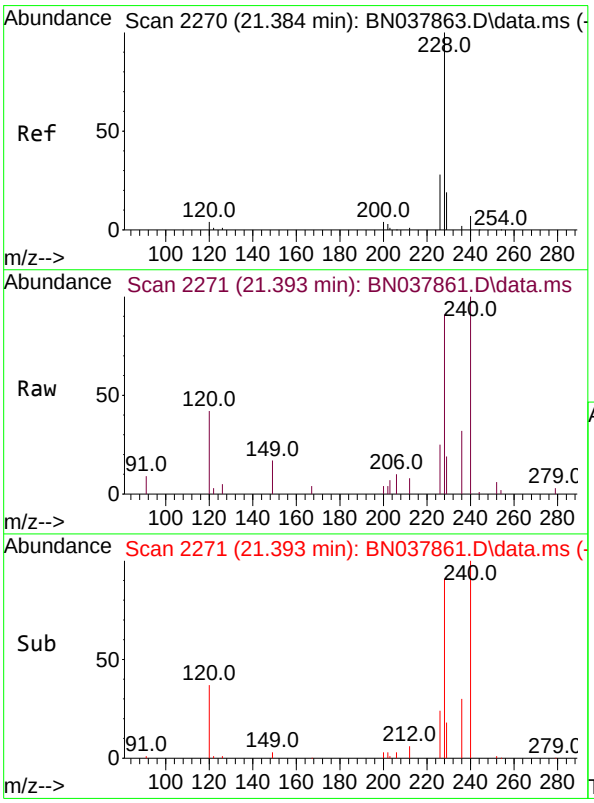
#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.852 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 2766

Ion	Ratio	Lower	Upper
244	100		
212	10.7	7.6	11.4
122	19.4	13.9	20.9

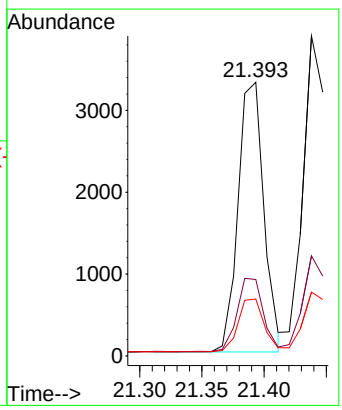


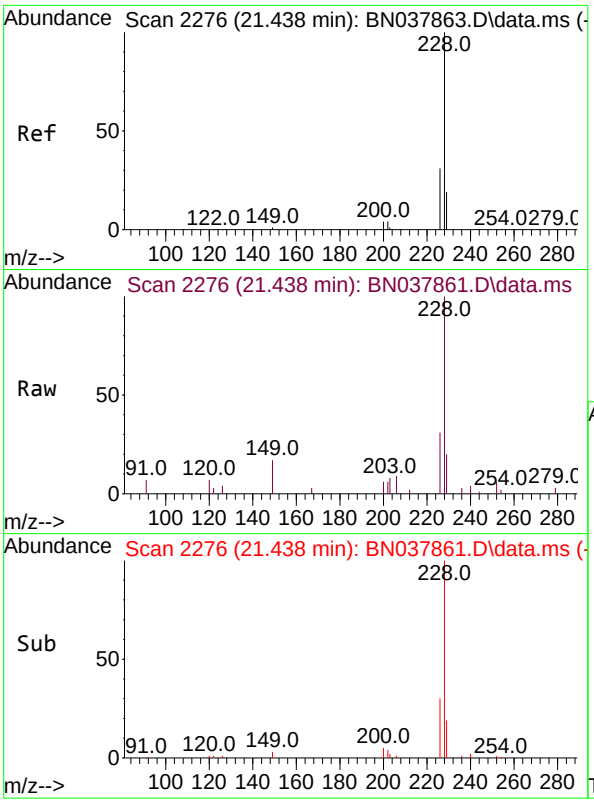


#32
Benzo(a)anthracene
Concen: 0.098 ng
RT: 21.393 min Scan# 2271
Delta R.T. 0.009 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:228 Resp: 4766

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	33.8
229	20.8	15.6	23.4



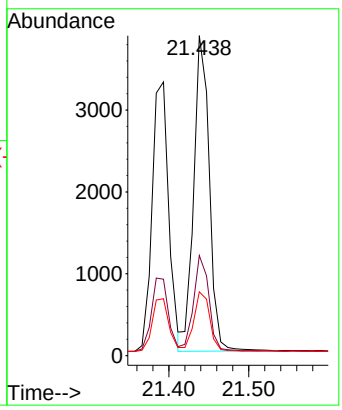


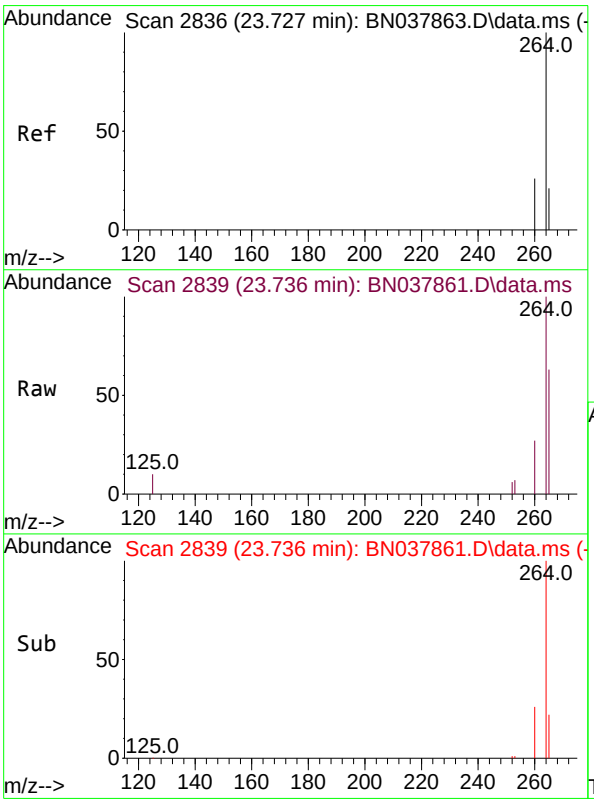
#33
Chrysene
Concen: 0.100 ng
RT: 21.438 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 5223

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.6	37.0
229	19.9	15.6	23.4

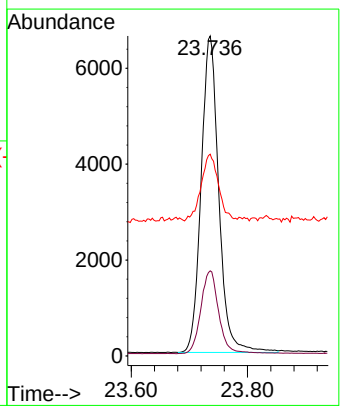


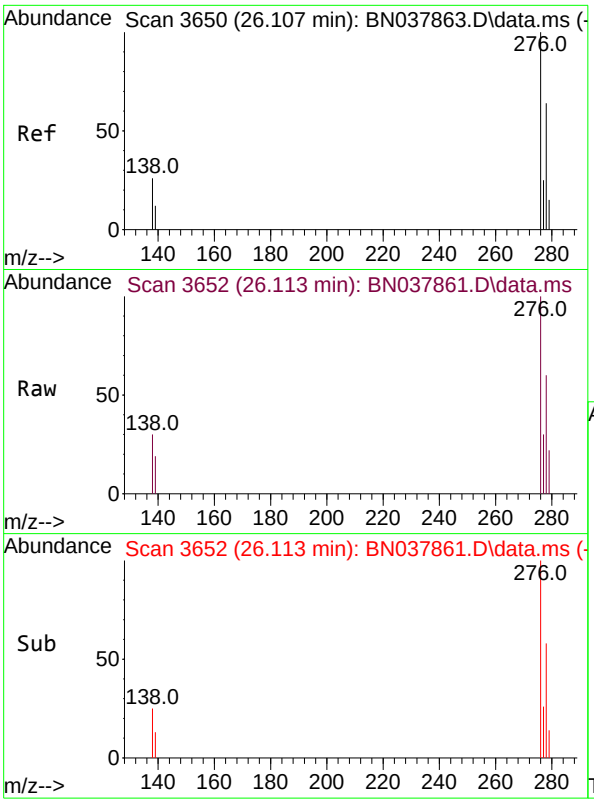


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. 0.009 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:264 Resp: 13928

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.5	32.3
265	63.0	53.8	80.6



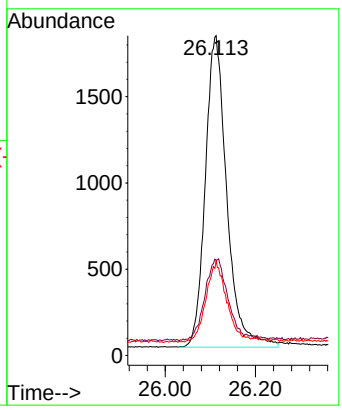


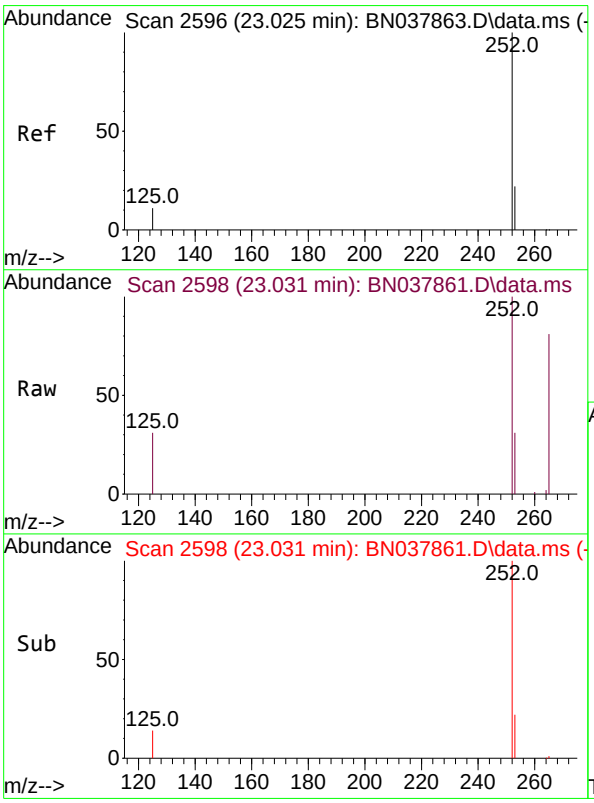
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.094 ng
RT: 26.113 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 5972

Ion	Ratio	Lower	Upper
276	100		
138	27.9	21.4	32.0
277	24.6	20.3	30.5

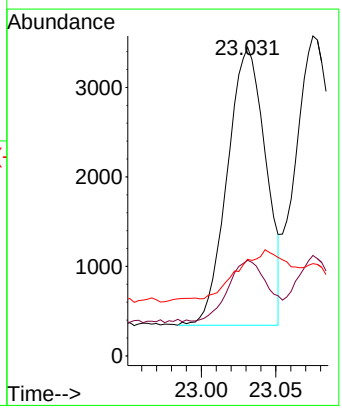


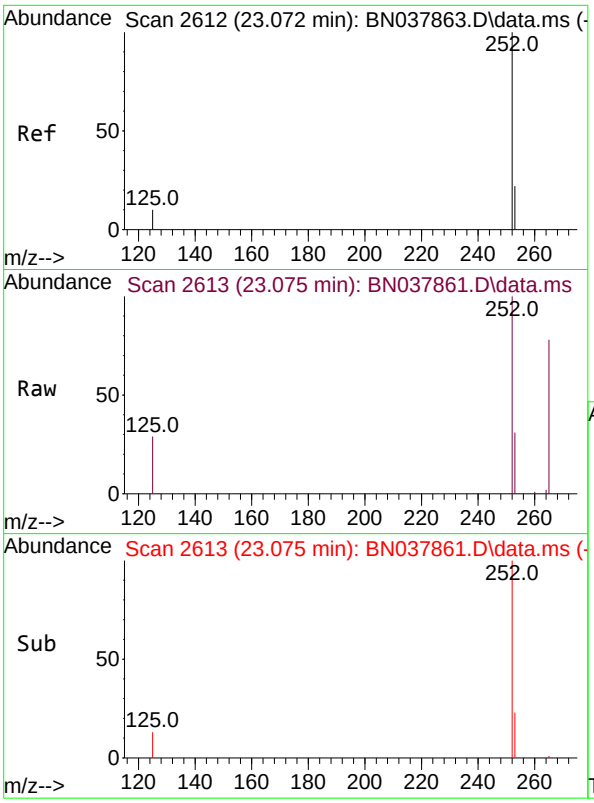


#37
Benzo(b)fluoranthene
Concen: 0.093 ng
RT: 23.031 min Scan# 2598
Delta R.T. 0.006 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:252 Resp: 5567

Ion	Ratio	Lower	Upper
252	100		
253	31.0	19.4	29.0#
125	31.3	13.0	19.4#



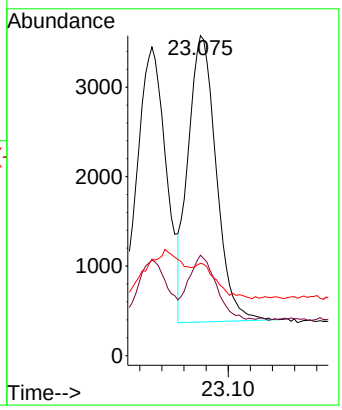


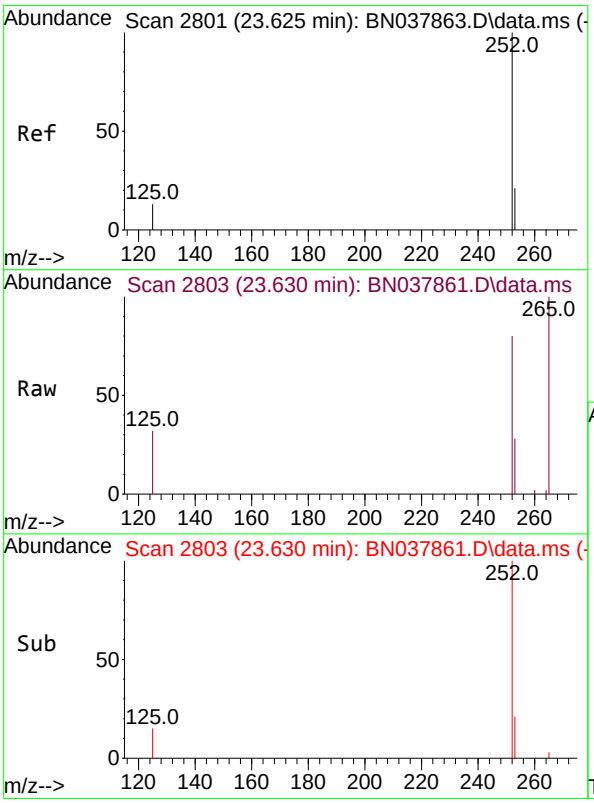
#38
Benzo(k)fluoranthene
Concen: 0.093 ng
RT: 23.075 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 5642

Ion	Ratio	Lower	Upper
252	100		
253	31.4	19.5	29.3#
125	28.8	13.0	19.4#

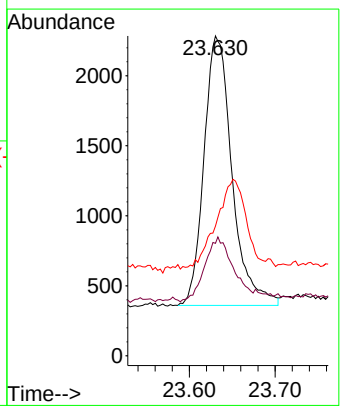


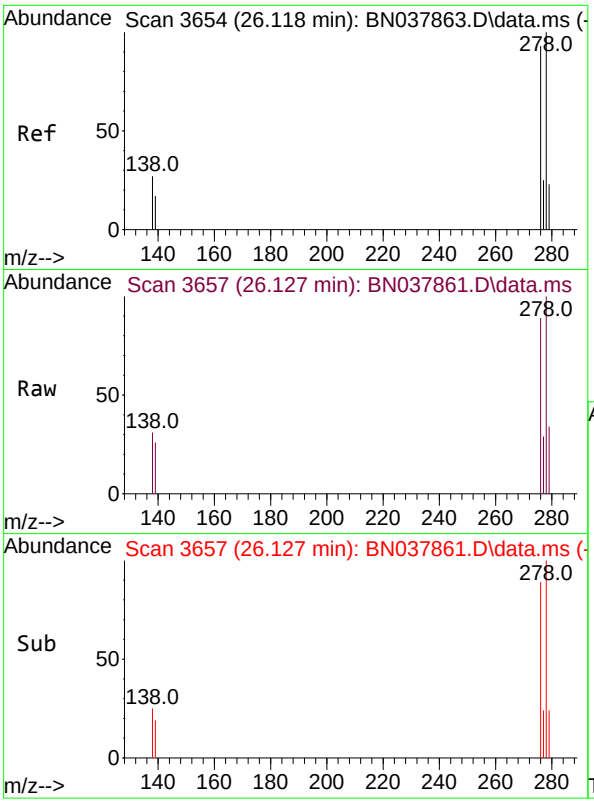


#39
Benzo(a)pyrene
Concen: 0.092 ng
RT: 23.630 min Scan# 2803
Delta R.T. 0.006 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:252 Resp: 4368

Ion	Ratio	Lower	Upper
252	100		
253	35.2	20.6	30.8#
125	40.6	16.7	25.1#



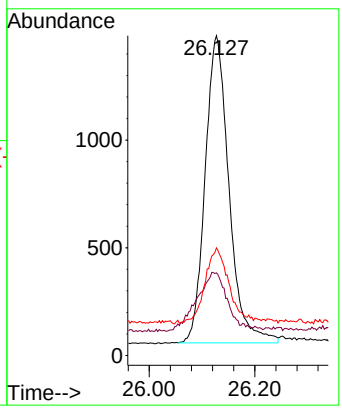


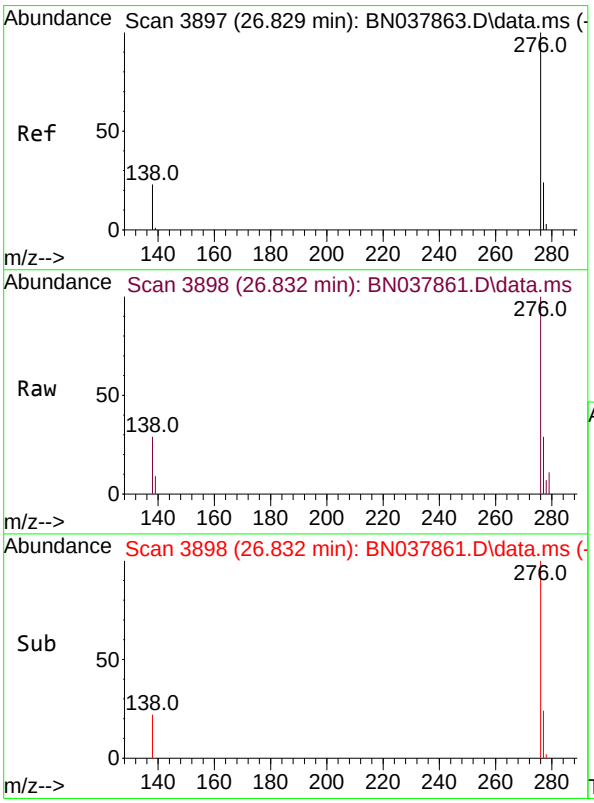
#40
Dibenzo(a,h)anthracene
Concen: 0.090 ng
RT: 26.127 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:278 Resp: 4476

Ion	Ratio	Lower	Upper
278	100		
139	25.9	15.4	23.2#
279	33.7	20.8	31.2#

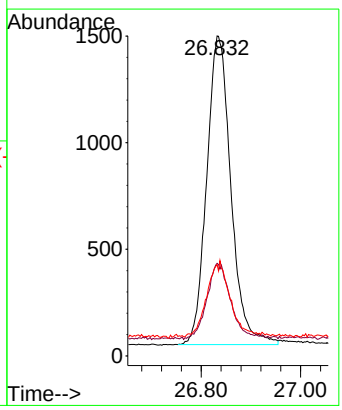




#41
Benzo(g,h,i)perylene
Concen: 0.094 ng
RT: 26.832 min Scan# 3898
Delta R.T. 0.003 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:276 Resp: 4900

Ion	Ratio	Lower	Upper
276	100		
277	28.9	20.2	30.4
138	28.5	19.8	29.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037862.D
Acq On : 23 Sep 2025 12:49
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Sep 23 16:21:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.826	152	5544	0.400	ng		0.00
7) Naphthalene-d8	10.626	136	15739	0.400	ng		0.00
13) Acenaphthene-d10	14.473	164	8069	0.400	ng		0.00
19) Phenanthrene-d10	17.223	188	15912	0.400	ng		0.00
29) Chrysene-d12	21.402	240	13158	0.400	ng		0.00
35) Perylene-d12	23.730	264	12974	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.384	112	2553	0.202	ng		0.00
5) Phenol-d6	6.973	99	3326	0.200	ng		0.00
8) Nitrobenzene-d5	8.971	82	2278	0.190	ng		0.00
11) 2-Methylnaphthalene-d10	12.217	152	4078	0.187	ng		0.00
14) 2,4,6-Tribromophenol	15.969	330	573	0.176	ng		0.00
15) 2-Fluorobiphenyl	13.094	172	6579	0.199	ng		0.00
27) Fluoranthene-d10	19.253	212	7304	0.182	ng		0.00
31) Terphenyl-d14	19.852	244	5201	0.198	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	1144	0.203	ng		97
3) n-Nitrosodimethylamine	3.601	42	1500	0.200	ng	#	94
6) bis(2-Chloroethyl)ether	7.241	93	3039	0.197	ng		98
9) Naphthalene	10.669	128	8573	0.198	ng		99
10) Hexachlorobutadiene	10.979	225	1450	0.196	ng	#	99
12) 2-Methylnaphthalene	12.293	142	5361	0.189	ng		100
16) Acenaphthylene	14.195	152	6943	0.190	ng		99
17) Acenaphthene	14.537	154	4963	0.190	ng		98
18) Fluorene	15.523	166	5870	0.186	ng		99
20) 4,6-Dinitro-2-methylph...	15.597	198	325	0.230	ng	#	64
21) 4-Bromophenyl-phenylether	16.416	248	1965	0.190	ng		97
22) Hexachlorobenzene	16.540	284	2483	0.198	ng		99
23) Atrazine	16.677	200	1442	0.183	ng	#	89
24) Pentachlorophenol	16.876	266	804	0.186	ng		99
25) Phenanthrene	17.260	178	10109	0.193	ng		99
26) Anthracene	17.347	178	8235	0.181	ng		99
28) Fluoranthene	19.280	202	10466	0.181	ng		100
30) Pyrene	19.643	202	10528	0.203	ng		100
32) Benzo(a)anthracene	21.384	228	8943	0.194	ng		99
33) Chrysene	21.438	228	10042	0.202	ng		99
34) Bis(2-ethylhexyl)phtha...	21.322	149	3892	0.214	ng	#	100
36) Indeno(1,2,3-cd)pyrene	26.110	276	10845	0.183	ng		99
37) Benzo(b)fluoranthene	23.025	252	10420	0.186	ng	#	91
38) Benzo(k)fluoranthene	23.069	252	10290	0.183	ng	#	93
39) Benzo(a)pyrene	23.628	252	8405	0.190	ng	#	88
40) Dibenzo(a,h)anthracene	26.121	278	8321	0.180	ng		92
41) Benzo(g,h,i)perylene	26.826	276	8956	0.184	ng		97

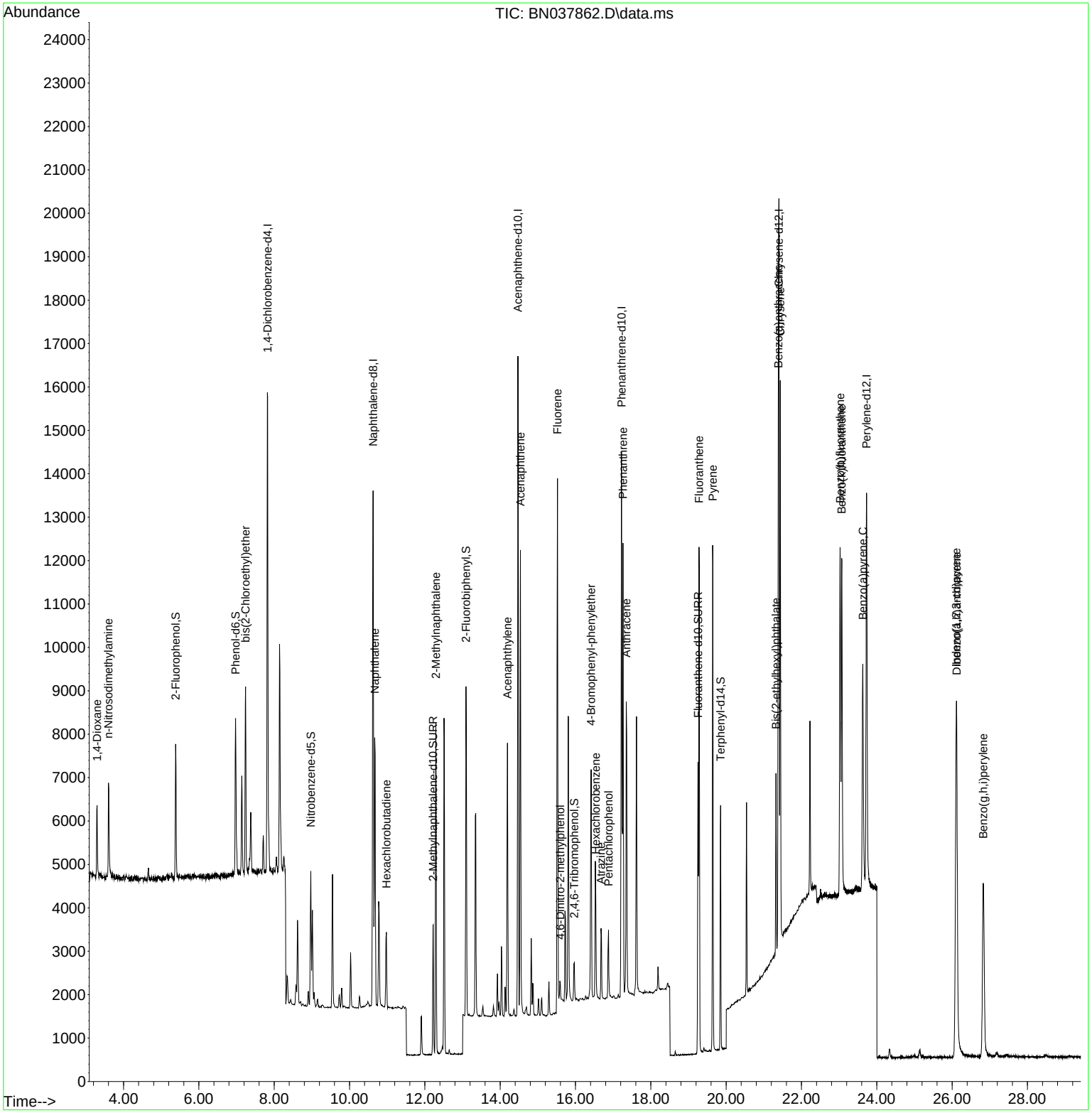
(#) = qualifier out of range (m) = manual integration (+) = signals summed

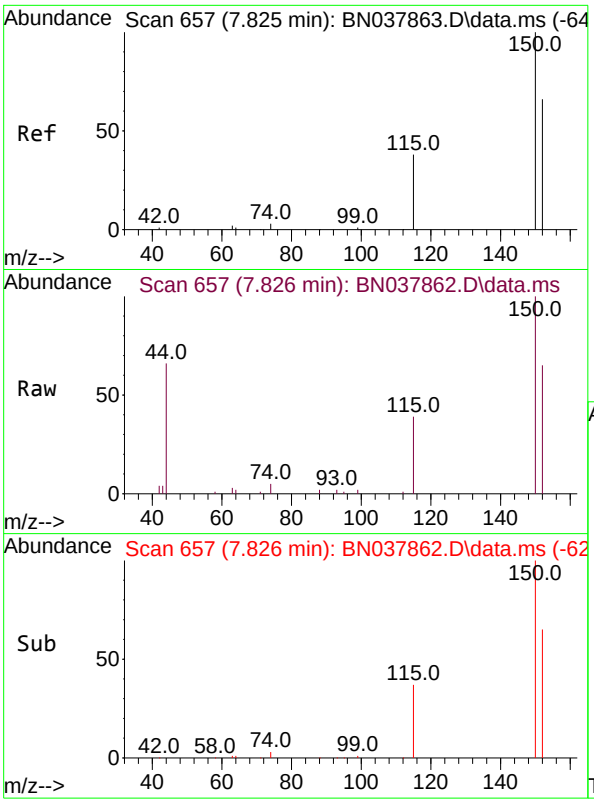
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037862.D
Acq On : 23 Sep 2025 12:49
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Sep 23 16:21:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



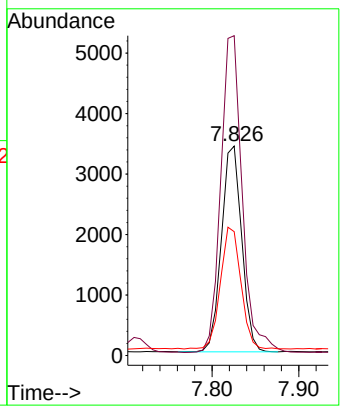


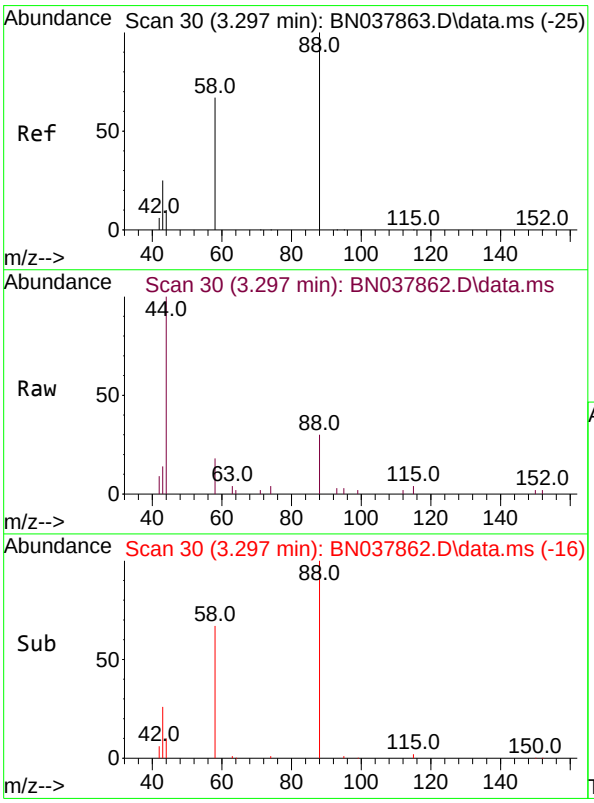
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 6
Delta R.T. 0.001 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 5544

Ion	Ratio	Lower	Upper
152	100		
150	152.7	121.0	181.4
115	59.1	47.4	71.0

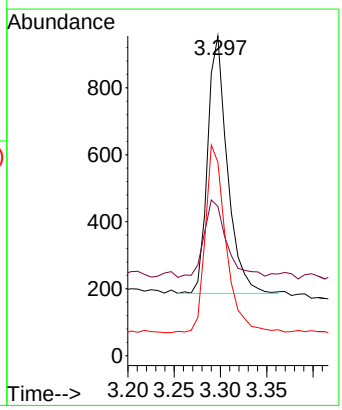


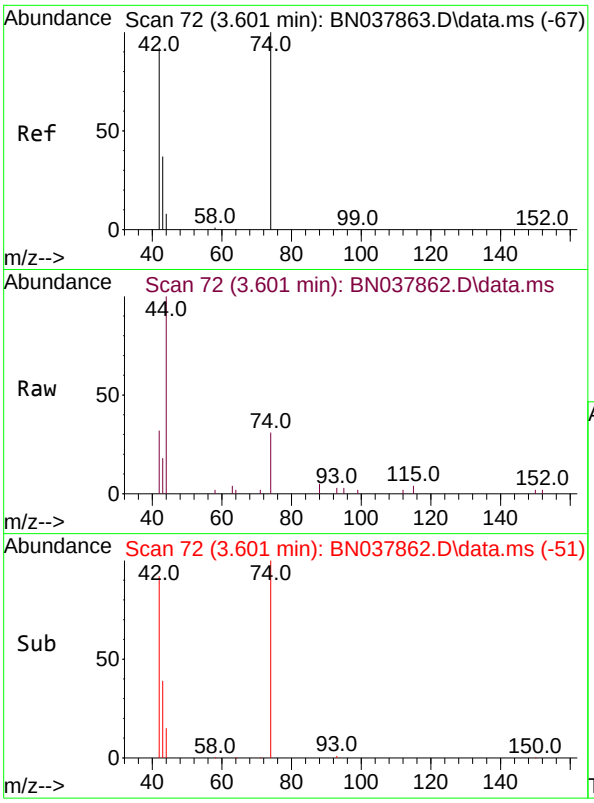


#2
1,4-Dioxane
Concen: 0.203 ng
RT: 3.297 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion: 88 Resp: 1144

Ion	Ratio	Lower	Upper
88	100		
43	34.1	26.6	39.8
58	76.4	58.9	88.3



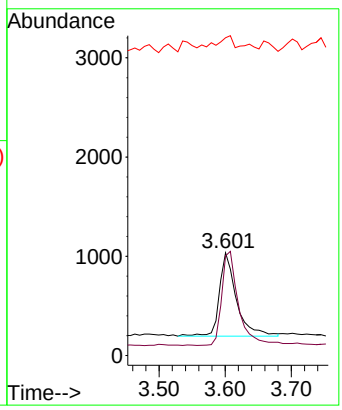


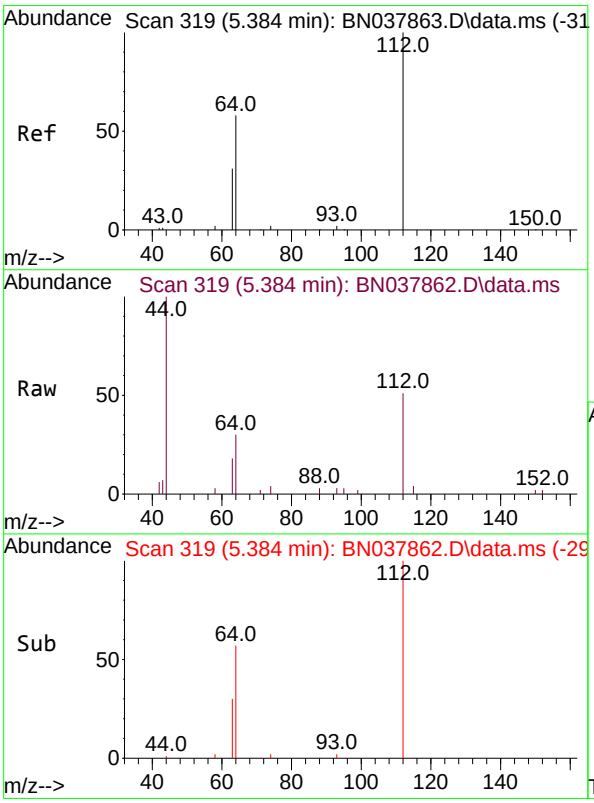
#3
n-Nitrosodimethylamine
Concen: 0.200 ng
RT: 3.601 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1500

Ion	Ratio	Lower	Upper
42	100		
74	112.1	93.4	140.0
44	20.9	22.2	33.4#

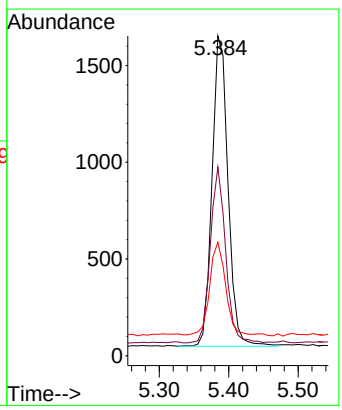


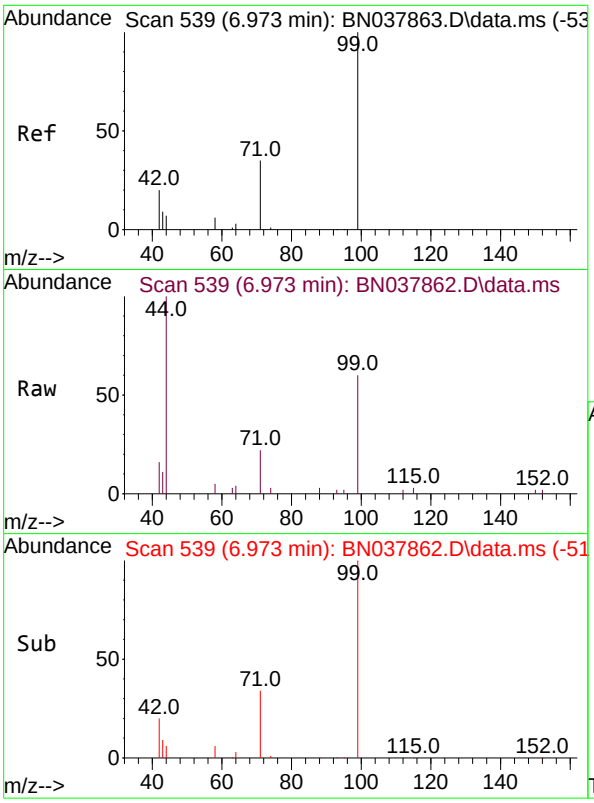


#4
2-Fluorophenol
Concen: 0.202 ng
RT: 5.384 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:112 Resp: 2553

Ion	Ratio	Lower	Upper
112	100		
64	54.6	44.6	66.8
63	30.9	24.9	37.3



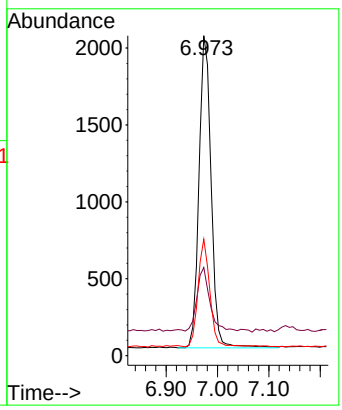


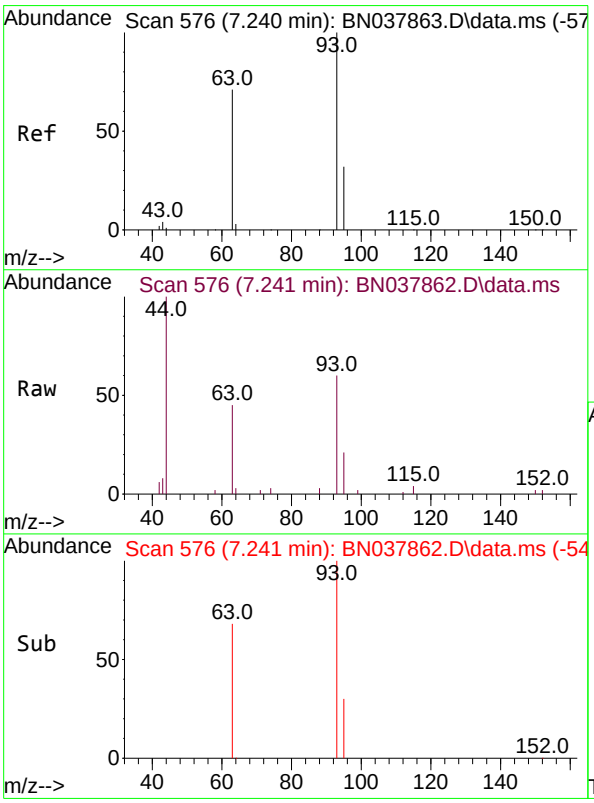
#5
Phenol-d6
Concen: 0.200 ng
RT: 6.973 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 3326

Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.2	25.8
71	33.3	27.3	40.9

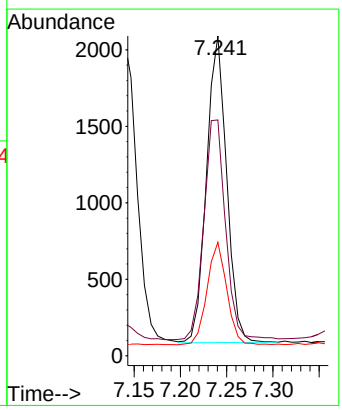


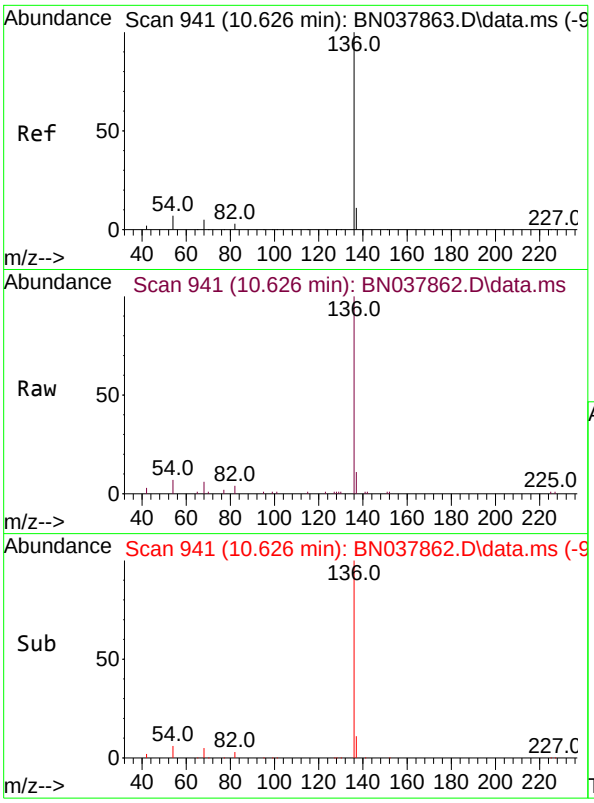


#6
bis(2-Chloroethyl)ether
Concen: 0.197 ng
RT: 7.241 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion: 93 Resp: 3039

Ion	Ratio	Lower	Upper
93	100		
63	77.1	60.1	90.1
95	33.0	25.4	38.2



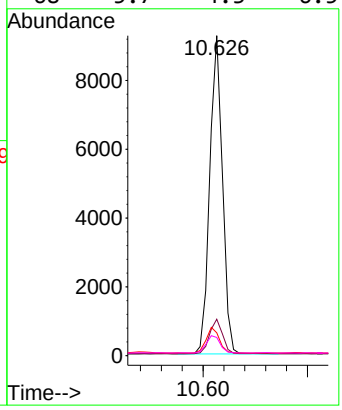


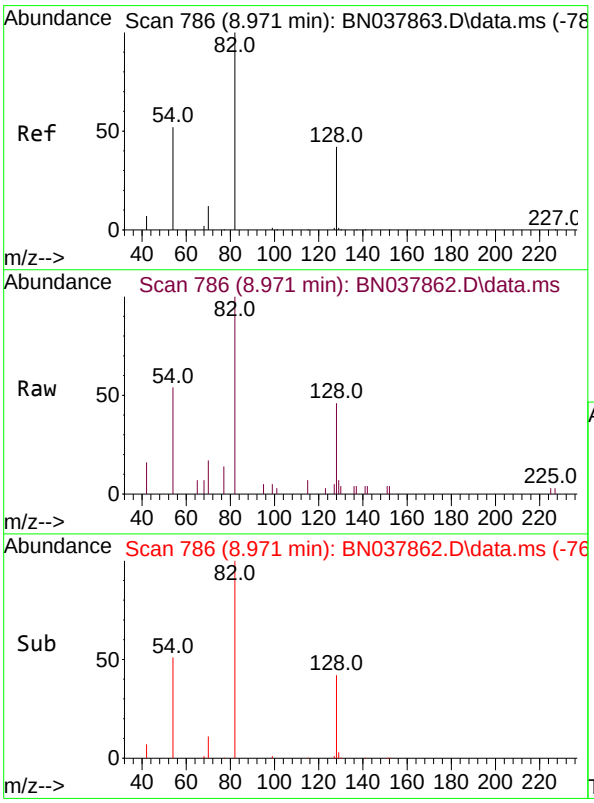
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 15739

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	7.1	5.8	8.8
68	5.7	4.3	6.5

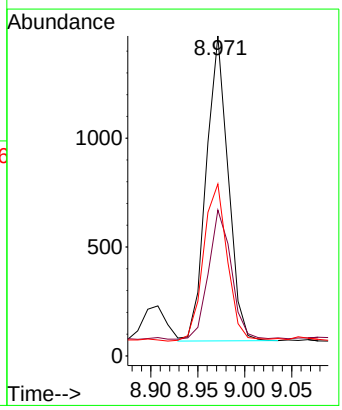


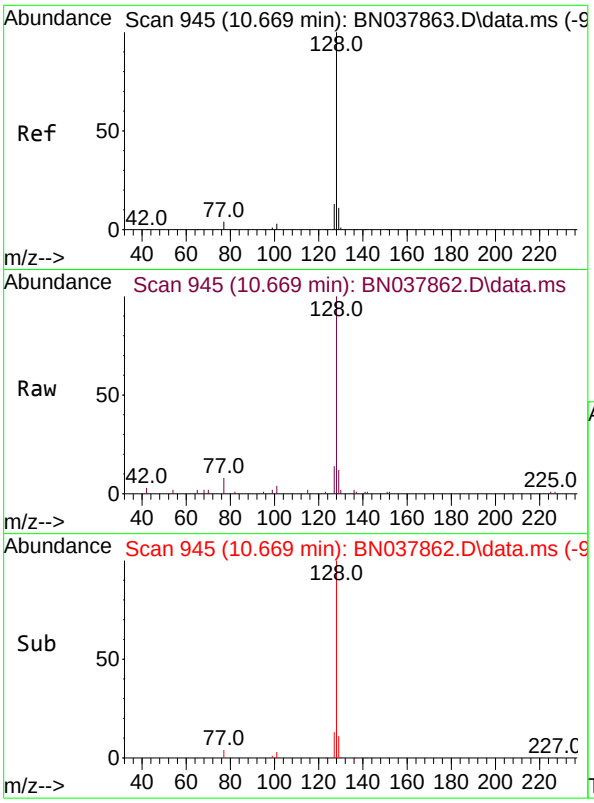


#8
Nitrobenzene-d5
Concen: 0.190 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion: 82 Resp: 2278

Ion	Ratio	Lower	Upper
82	100		
128	45.6	34.8	52.2
54	53.7	42.2	63.2



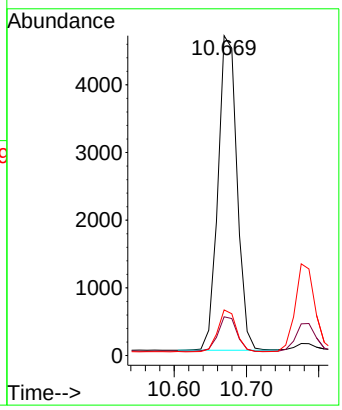


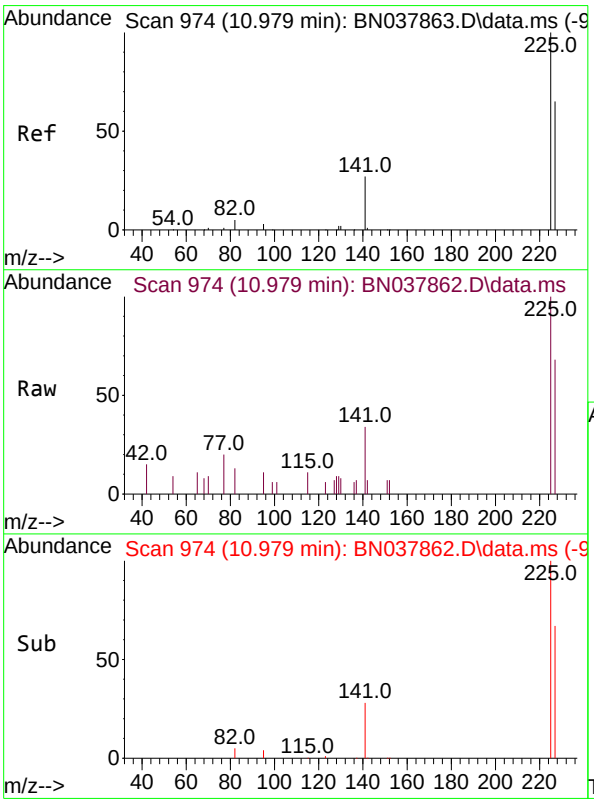
#9
Naphthalene
Concen: 0.198 ng
RT: 10.669 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 8573

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.2	13.8
127	14.3	11.0	16.6

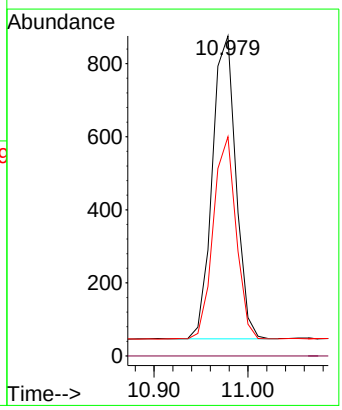


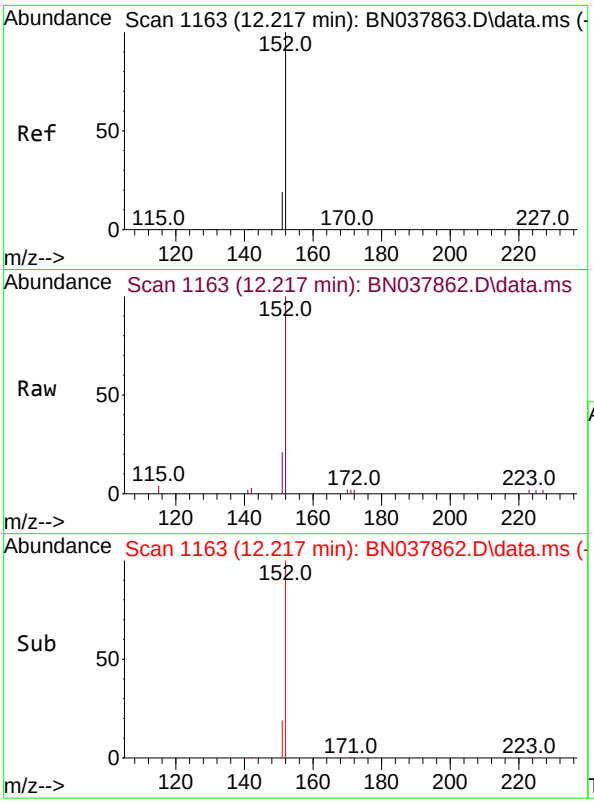


#10
Hexachlorobutadiene
Concen: 0.196 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:225 Resp: 1450

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.0	51.4	77.2



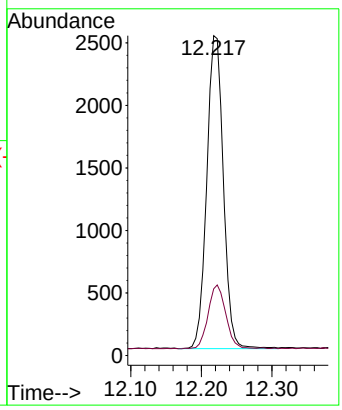


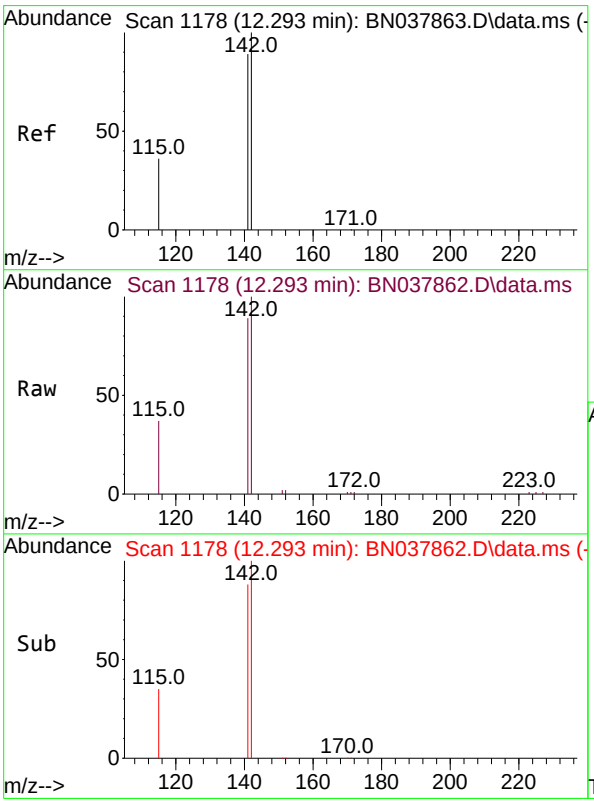
#11
2-Methylnaphthalene-d10
Concen: 0.187 ng
RT: 12.217 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 4078

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.4	26.2

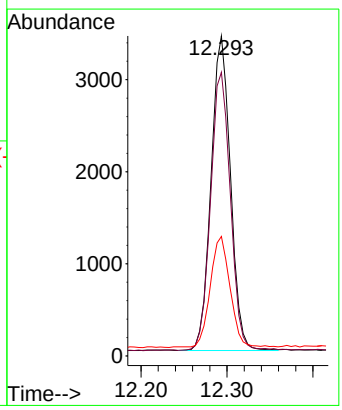


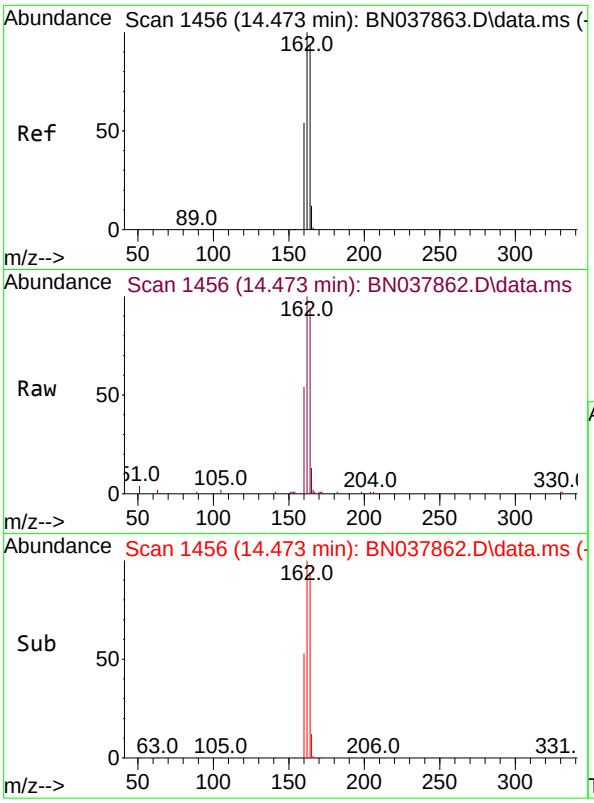


#12
2-Methylnaphthalene
Concen: 0.189 ng
RT: 12.293 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:142 Resp: 5361

Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.2	106.8
115	37.3	29.7	44.5



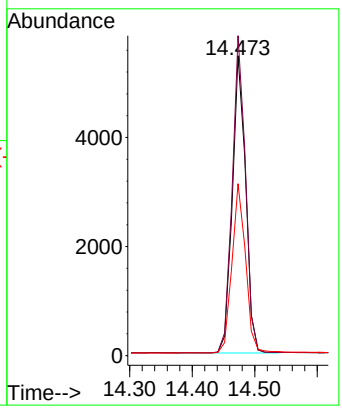


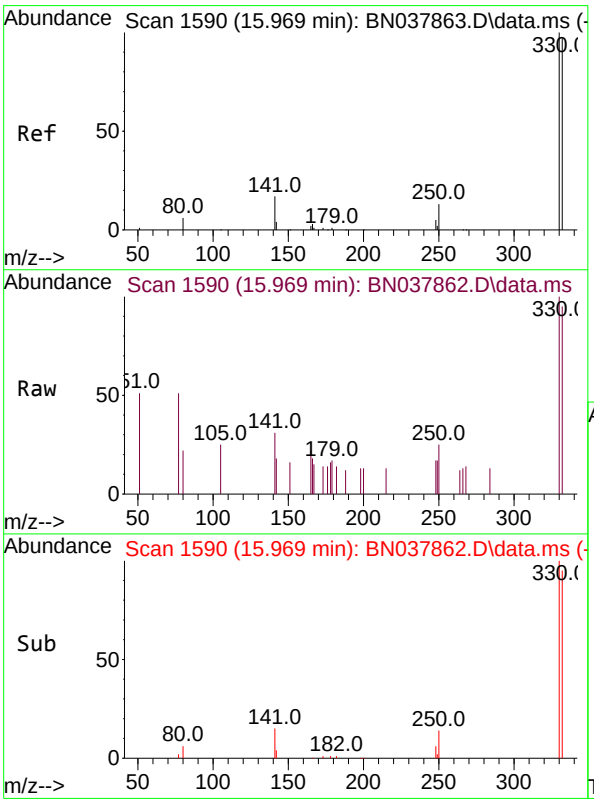
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 8069

Ion	Ratio	Lower	Upper
164	100		
162	106.7	84.8	127.2
160	57.3	46.1	69.1

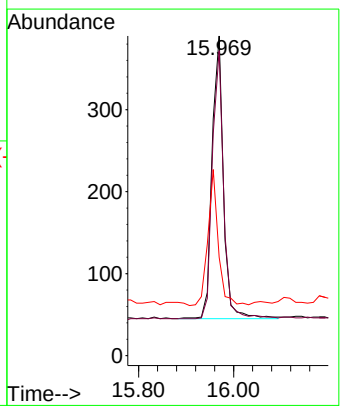


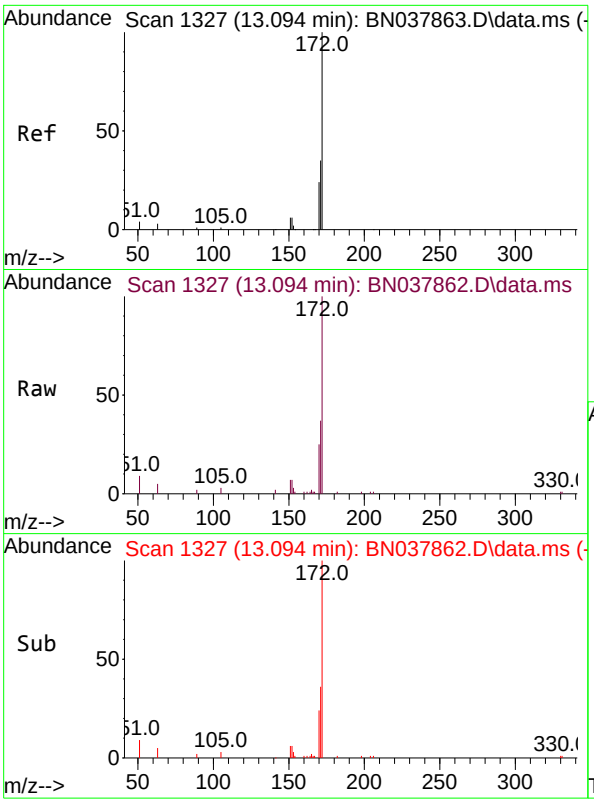


#14
2,4,6-Tribromophenol
Concen: 0.176 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:330 Resp: 573

Ion	Ratio	Lower	Upper
330	100		
332	94.2	77.2	115.8
141	44.0	37.2	55.8



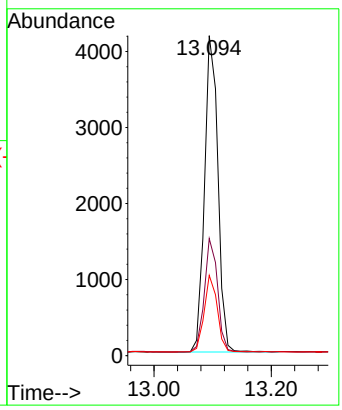


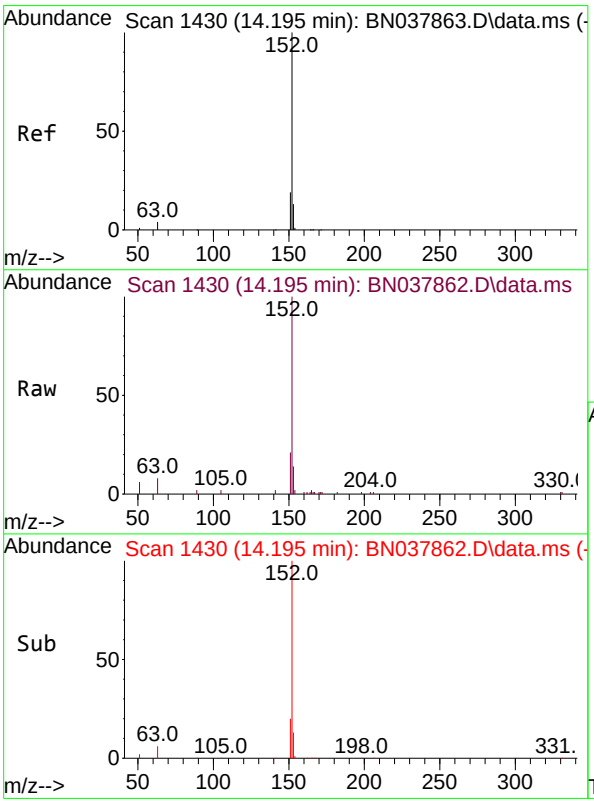
#15
2-Fluorobiphenyl
Concen: 0.199 ng
RT: 13.094 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 6579

Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.6	43.0
170	25.1	19.7	29.5

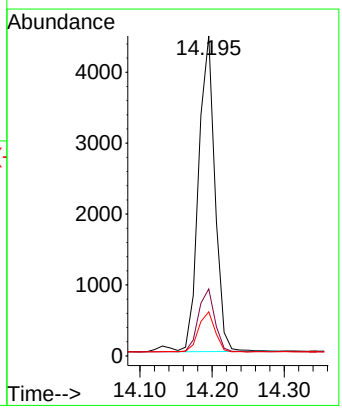


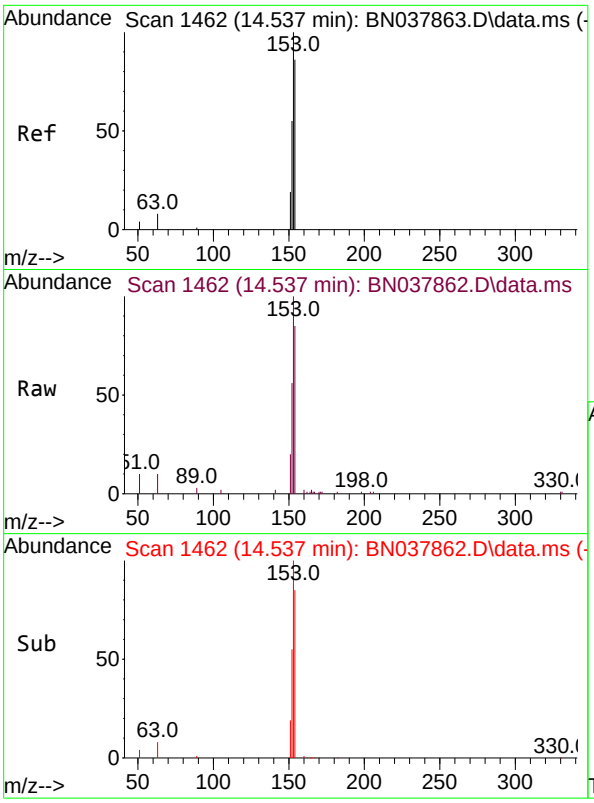


#16
Acenaphthylene
Concen: 0.190 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:152 Resp: 6943

Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.8	23.8
153	13.1	10.5	15.7



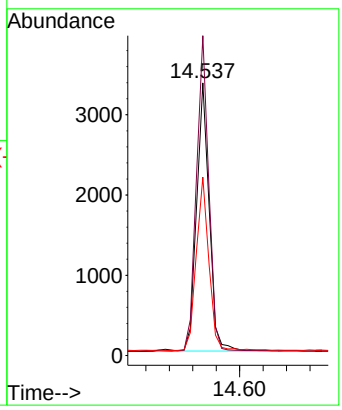


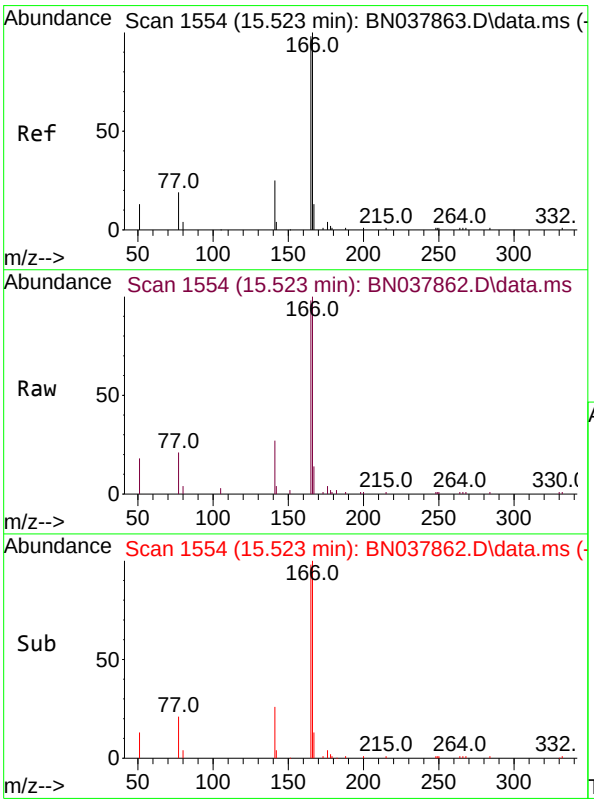
#17
Acenaphthene
Concen: 0.190 ng
RT: 14.537 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 4963

Ion	Ratio	Lower	Upper
154	100		
153	115.4	90.5	135.7
152	65.5	51.8	77.8

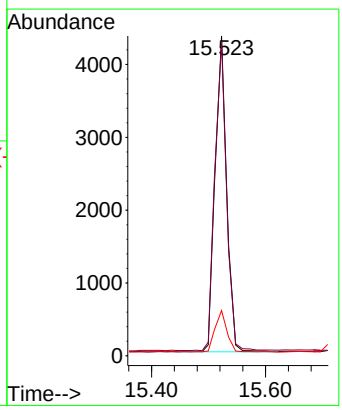


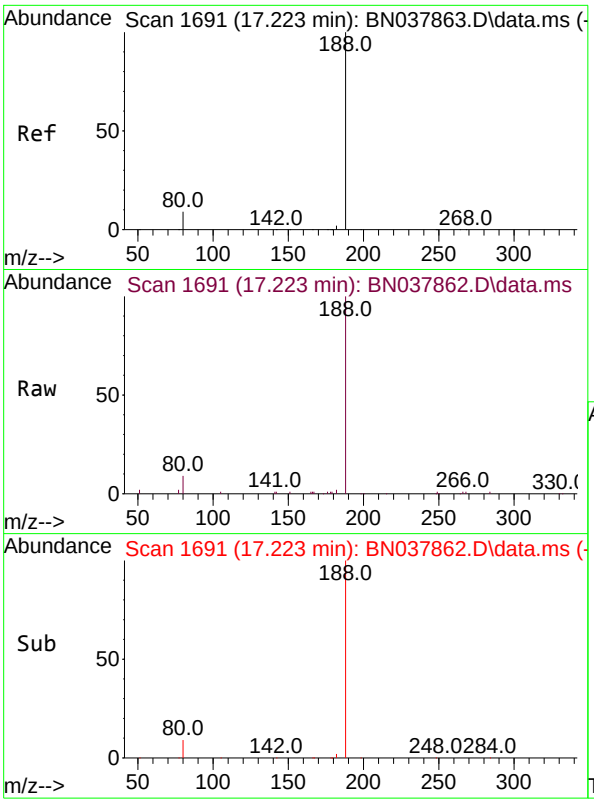


#18
Fluorene
Concen: 0.186 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:166 Resp: 5870

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.0	118.4
167	13.9	10.6	16.0



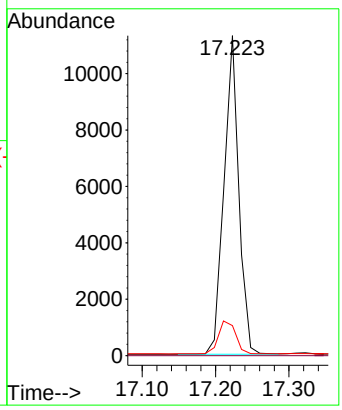


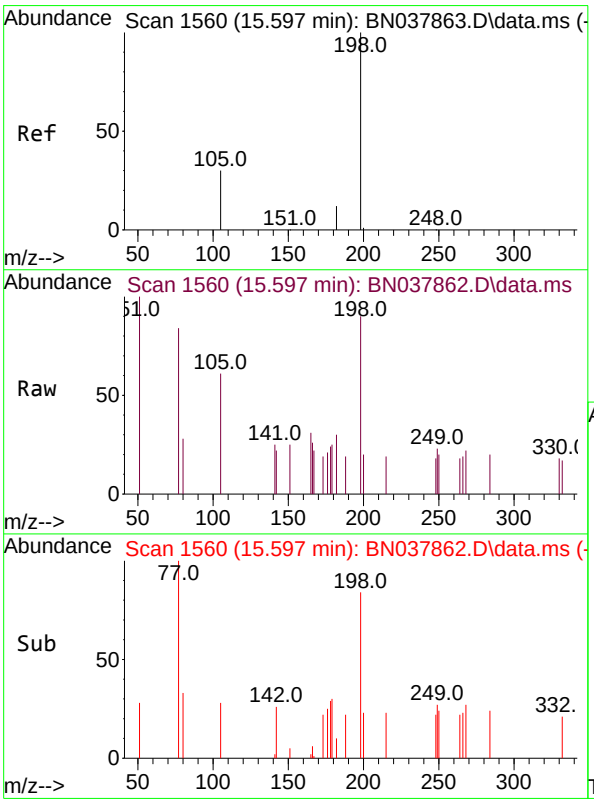
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 15912

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.4	7.6	11.4

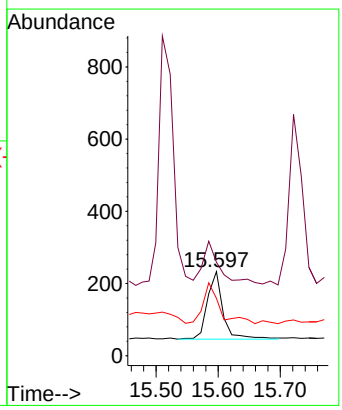


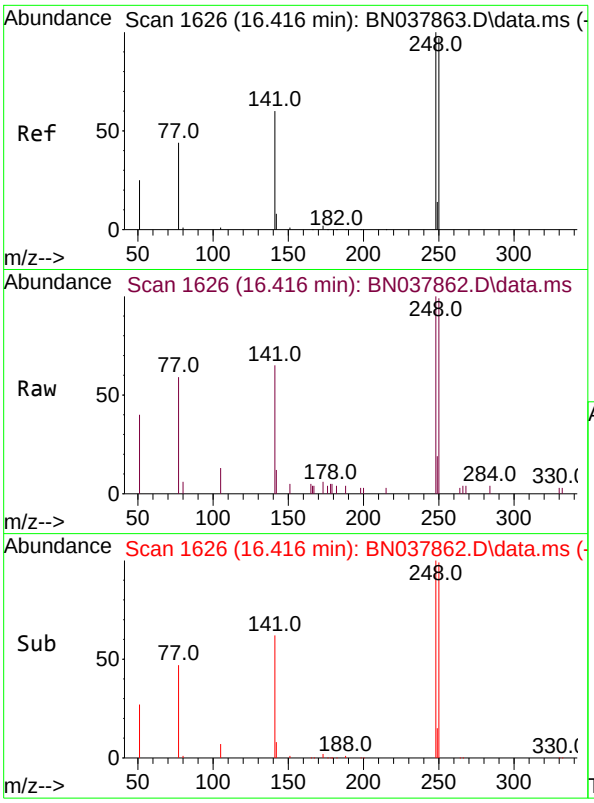


#20
4,6-Dinitro-2-methylphenol
Concen: 0.230 ng
RT: 15.597 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:198 Resp: 325

Ion	Ratio	Lower	Upper
198	100		
51	111.2	59.1	88.7#
105	68.2	41.3	61.9#



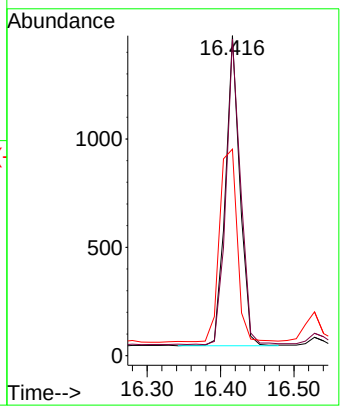


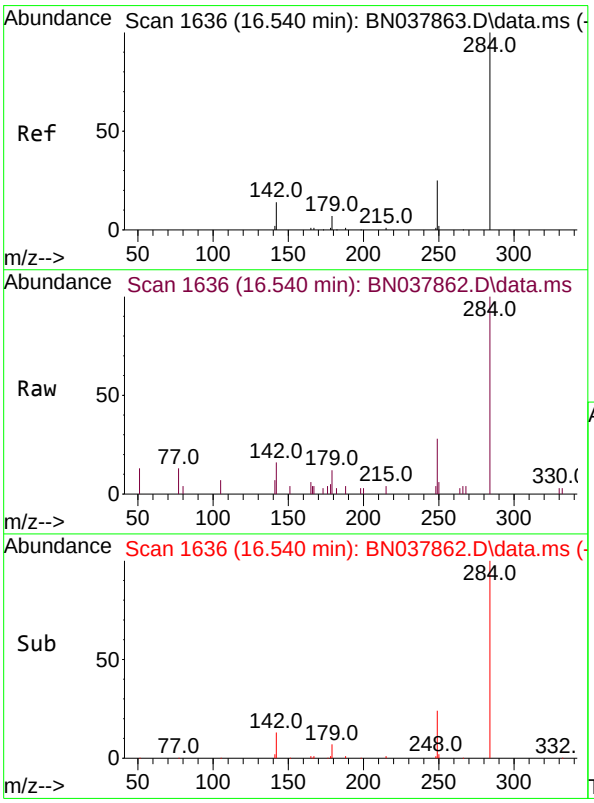
#21
4-Bromophenyl-phenylether
Concen: 0.190 ng
RT: 16.416 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 1965

Ion	Ratio	Lower	Upper
248	100		
250	98.8	77.6	116.4
141	64.5	48.8	73.2

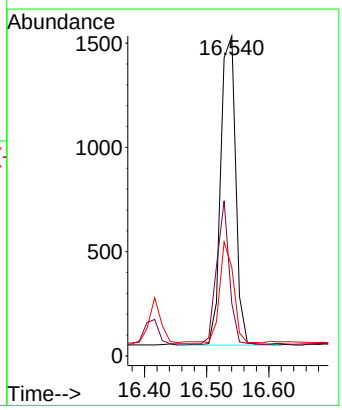


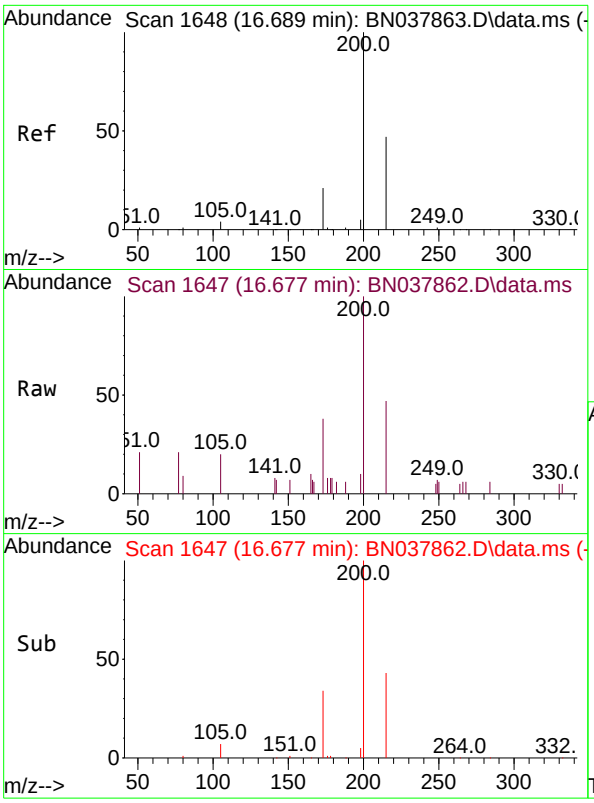


#22
Hexachlorobenzene
Concen: 0.198 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:284 Resp: 2483

Ion	Ratio	Lower	Upper
284	100		
142	39.2	30.9	46.3
249	30.3	23.9	35.9



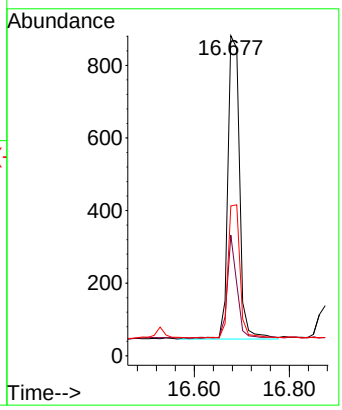


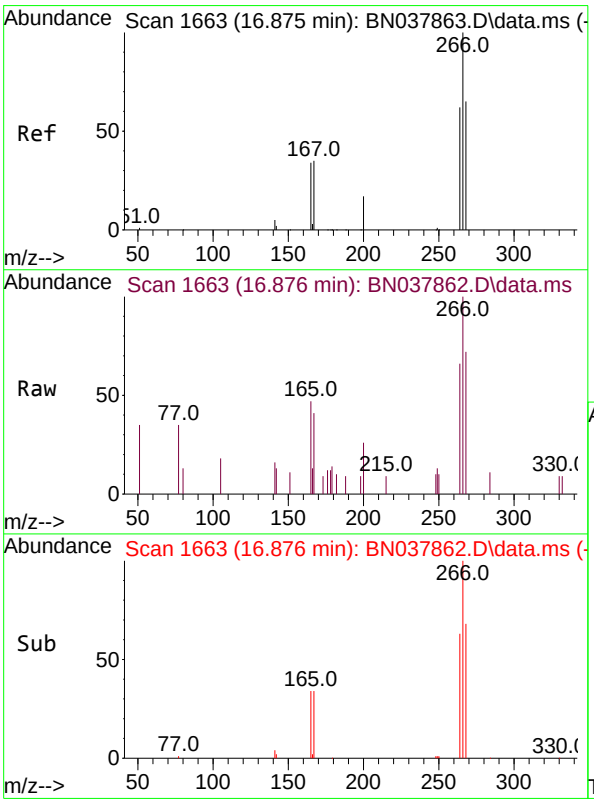
#23
Atrazine
Concen: 0.183 ng
RT: 16.677 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 1442

Ion	Ratio	Lower	Upper
200	100		
173	37.6	18.3	27.5#
215	46.8	38.6	58.0

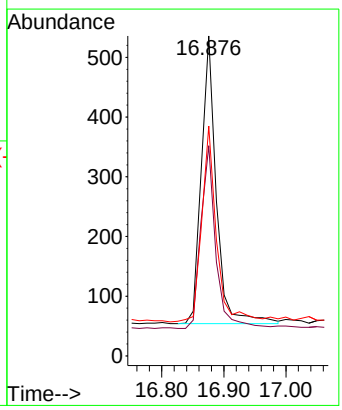


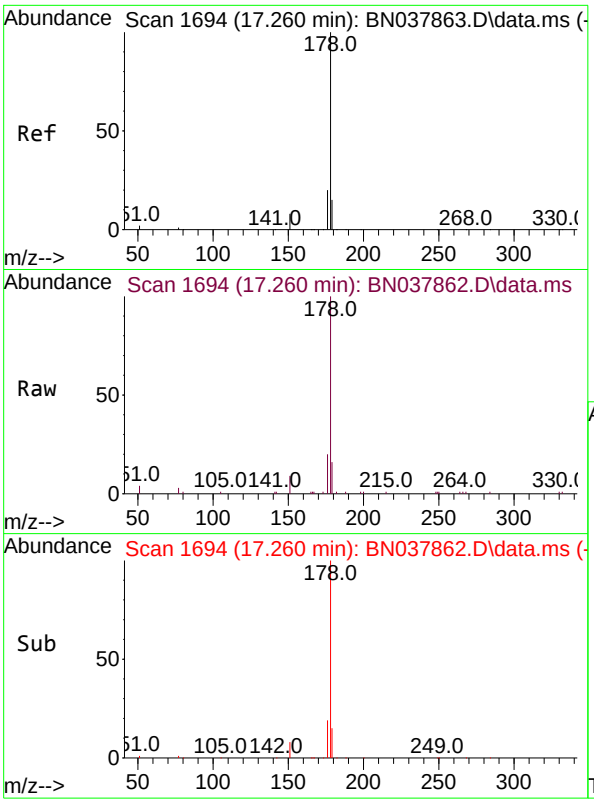


#24
Pentachlorophenol
Concen: 0.186 ng
RT: 16.876 min Scan# 1663
Delta R.T. 0.001 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:266 Resp: 804

Ion	Ratio	Lower	Upper
266	100		
264	63.3	50.9	76.3
268	66.4	54.3	81.5



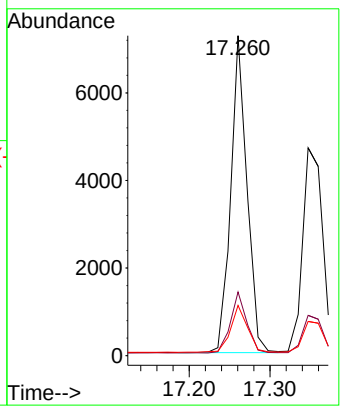


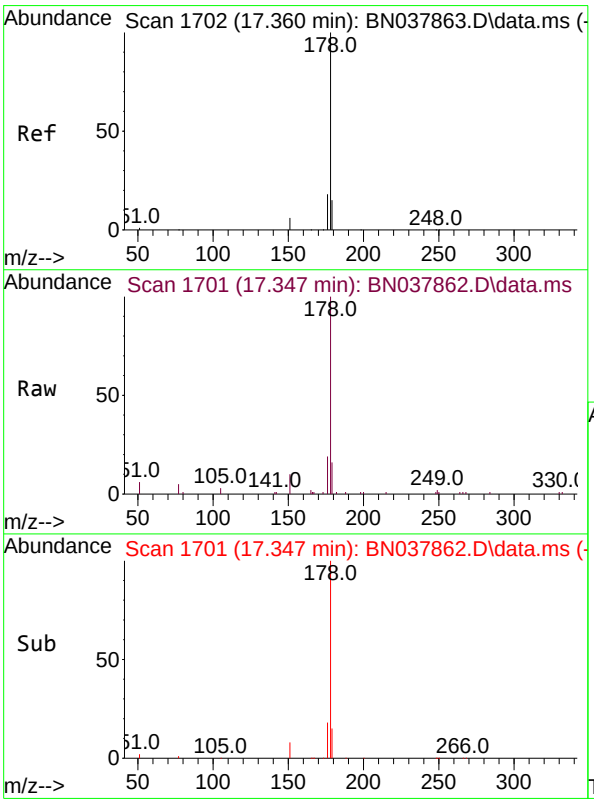
#25
Phenanthrene
Concen: 0.193 ng
RT: 17.260 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 10109

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.7	23.5
179	15.6	12.3	18.5

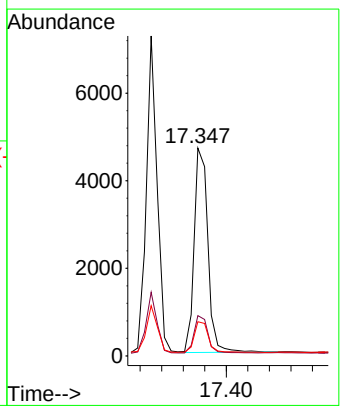


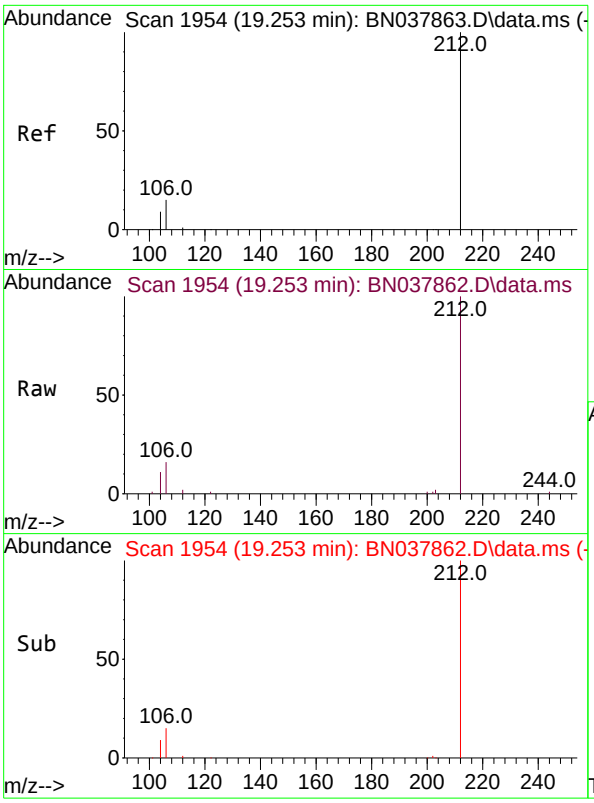


#26
Anthracene
Concen: 0.181 ng
RT: 17.347 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:178 Resp: 8235

Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.0	22.4
179	15.7	12.3	18.5



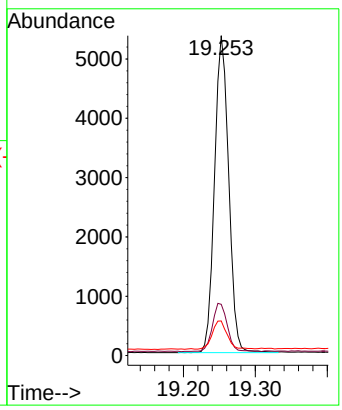


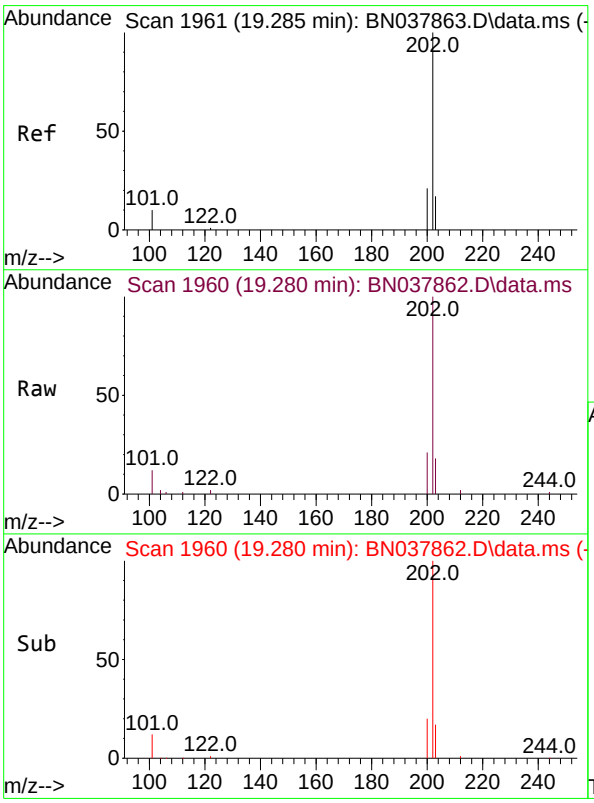
#27
Fluoranthene-d10
Concen: 0.182 ng
RT: 19.253 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 7304

Ion	Ratio	Lower	Upper
212	100		
106	16.1	12.6	19.0
104	9.3	7.4	11.0

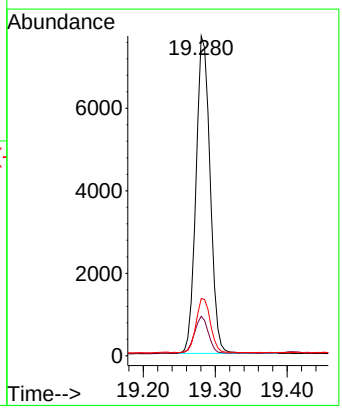


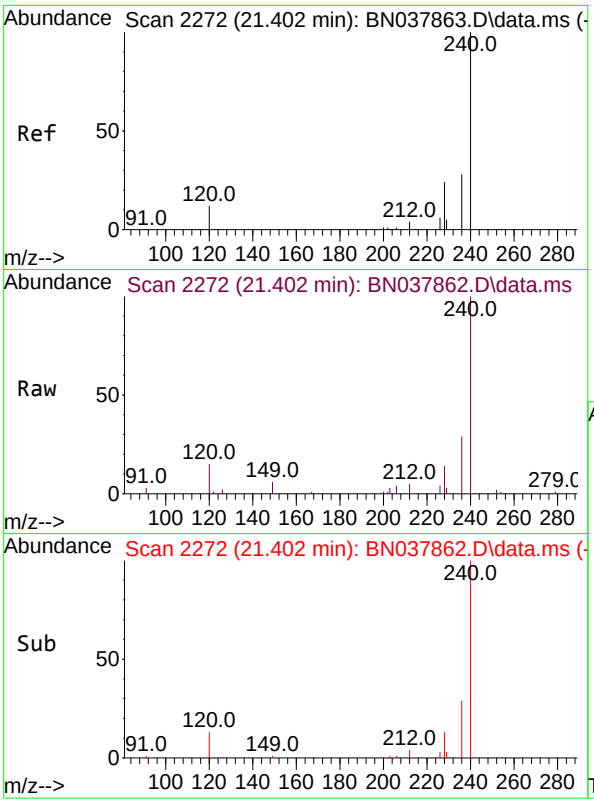


#28
Fluoranthene
Concen: 0.181 ng
RT: 19.280 min Scan# 1960
Delta R.T. -0.005 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:202 Resp: 10466

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.3	13.9
203	17.2	13.6	20.4



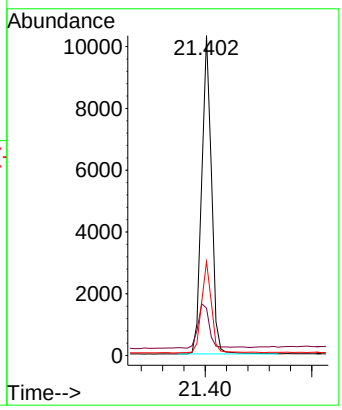


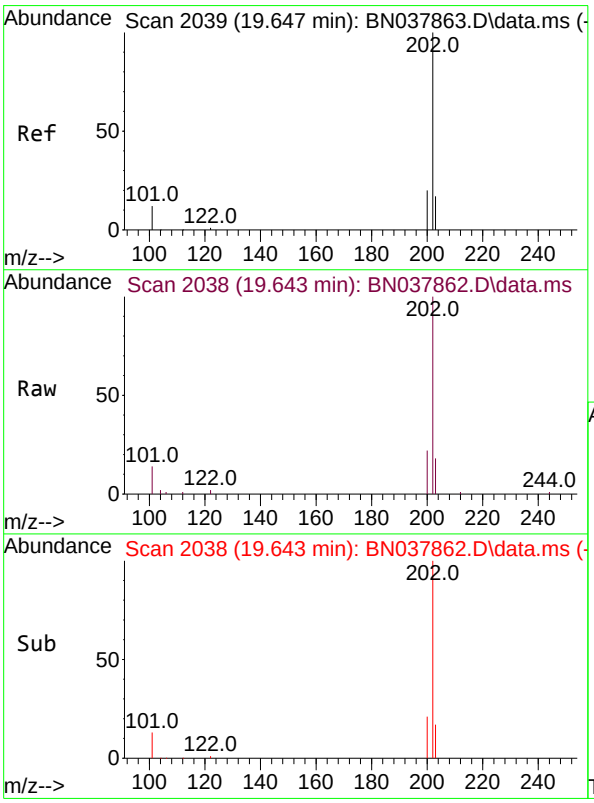
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 13158

Ion	Ratio	Lower	Upper
240	100		
120	14.8	11.4	17.2
236	29.3	23.0	34.6

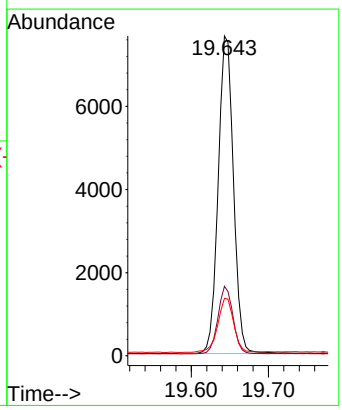


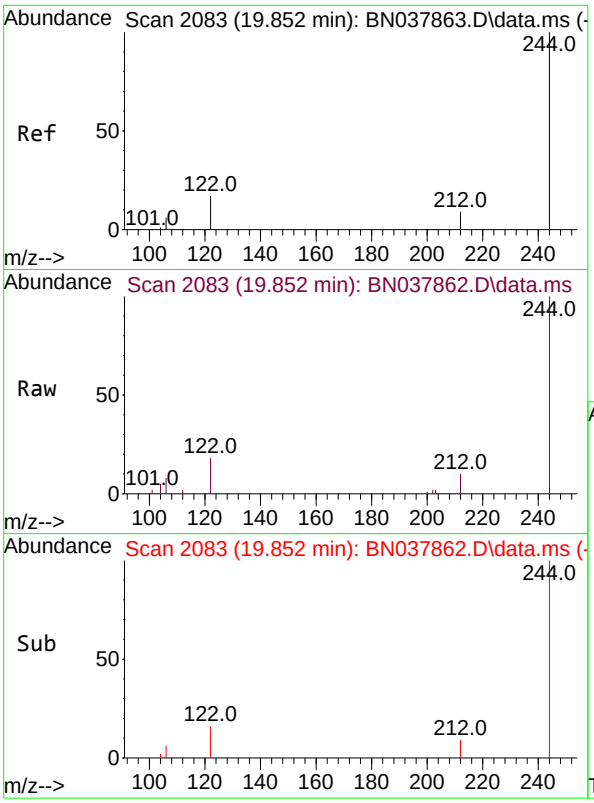


#30
Pyrene
Concen: 0.203 ng
RT: 19.643 min Scan# 2038
Delta R.T. -0.005 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:202 Resp: 10528

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.7	25.1
203	17.9	14.2	21.4



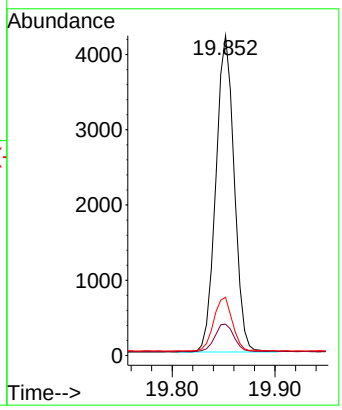


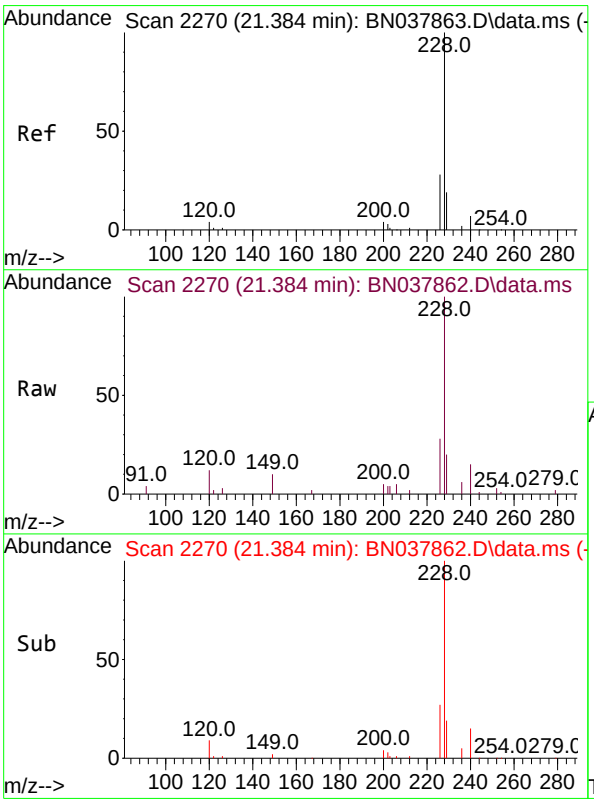
#31
Terphenyl-d14
Concen: 0.198 ng
RT: 19.852 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 5201

Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.6	11.4
122	18.2	13.9	20.9

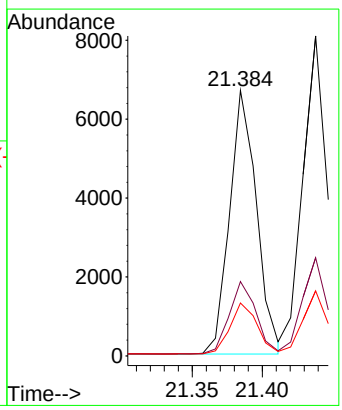


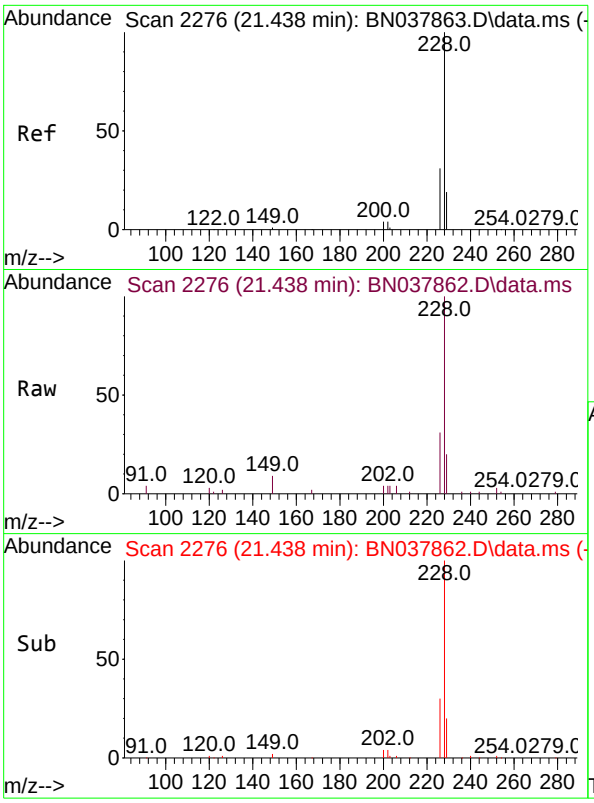


#32
Benzo(a)anthracene
Concen: 0.194 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:228 Resp: 8943

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	33.8
229	19.9	15.6	23.4



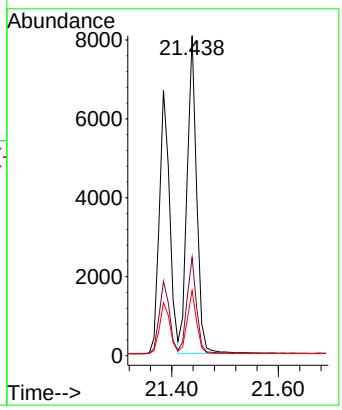


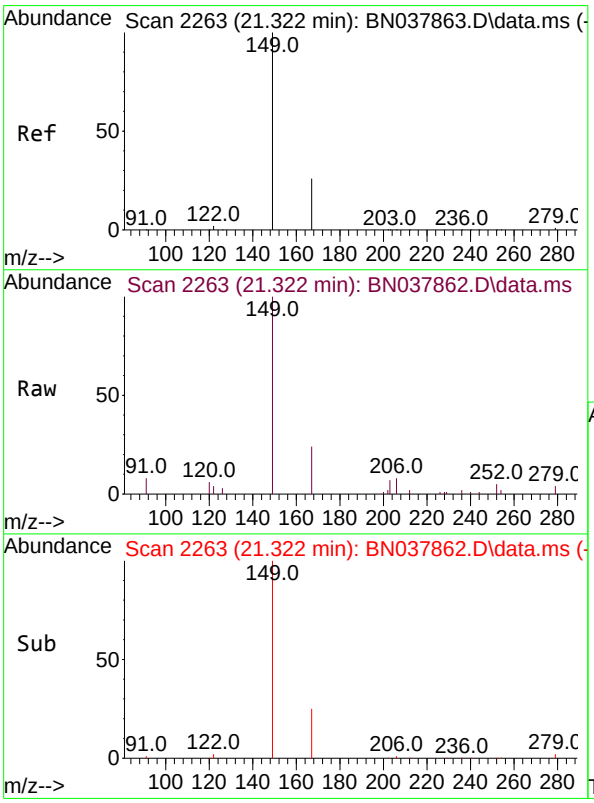
#33
Chrysene
Concen: 0.202 ng
RT: 21.438 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 10042

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	37.0
229	20.3	15.6	23.4

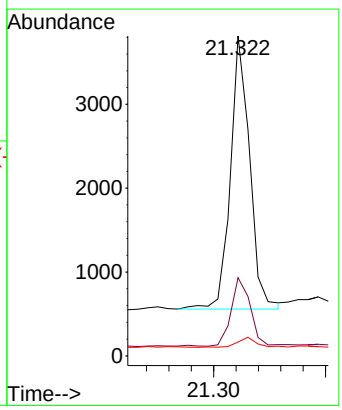


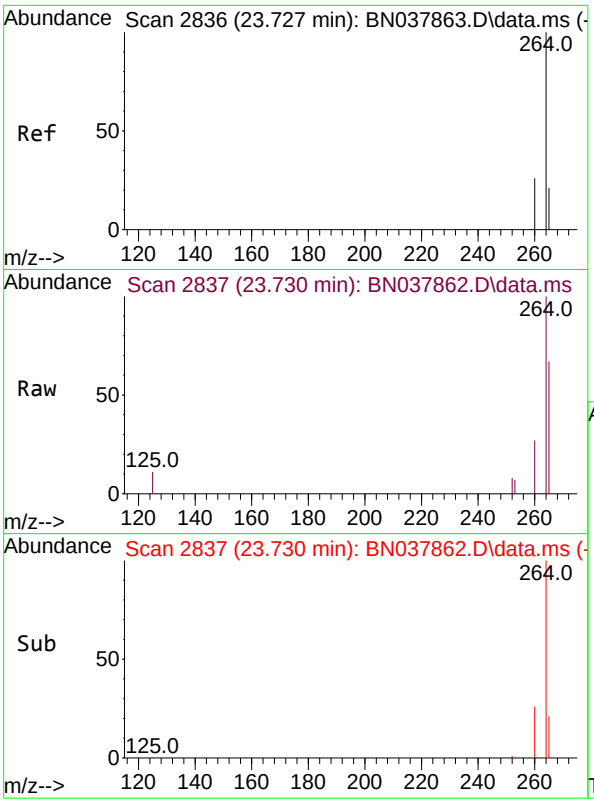


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.214 ng
RT: 21.322 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:149 Resp: 3892

Ion	Ratio	Lower	Upper
149	100		
167	25.5	20.4	30.6
279	3.6	2.4	3.6#



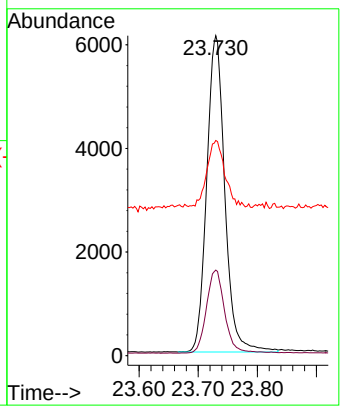


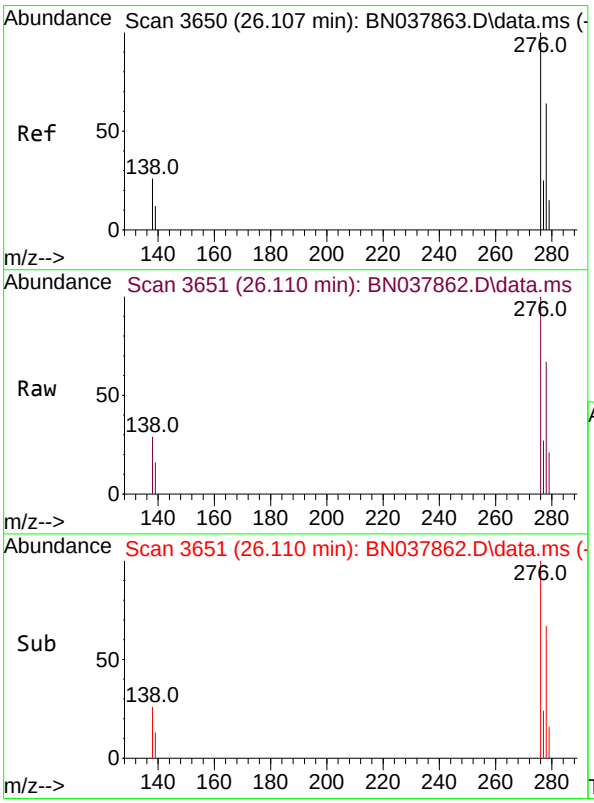
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.730 min Scan# 28
Delta R.T. 0.003 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 12974

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.5	32.3
265	67.2	53.8	80.6

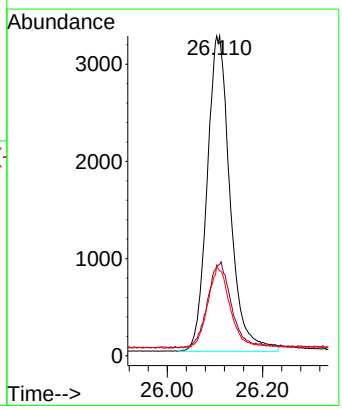


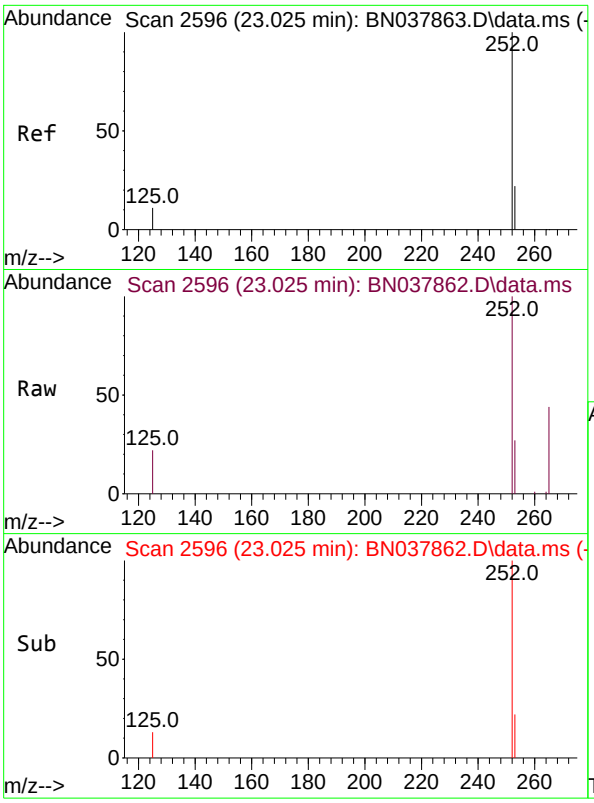


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.183 ng
RT: 26.110 min Scan# 3651
Delta R.T. 0.003 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:276 Resp: 10845

Ion	Ratio	Lower	Upper
276	100		
138	27.3	21.4	32.0
277	25.3	20.3	30.5



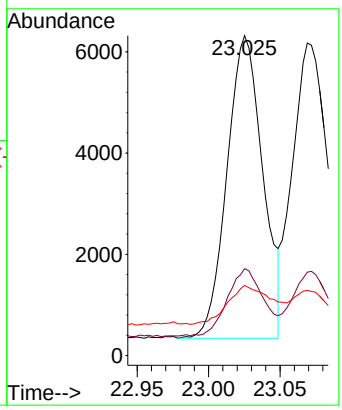


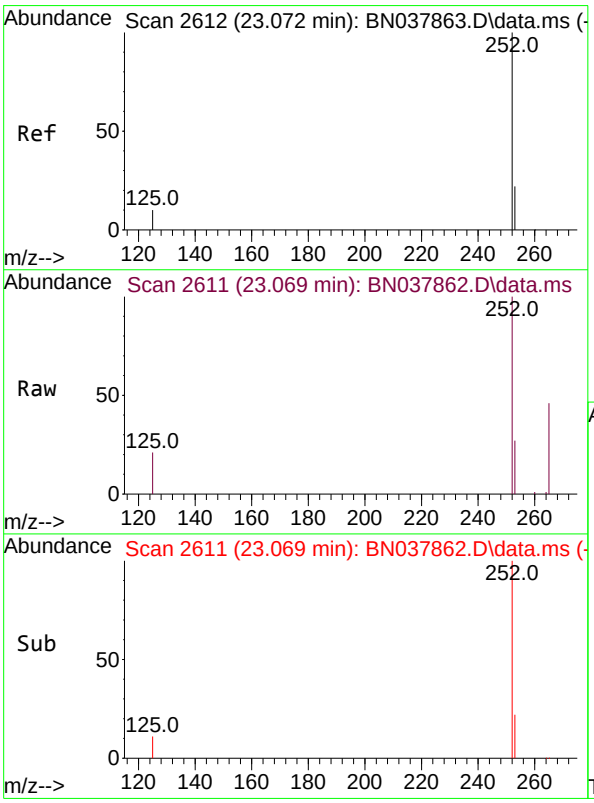
#37
Benzo(b)fluoranthene
Concen: 0.186 ng
RT: 23.025 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 10420

Ion	Ratio	Lower	Upper
252	100		
253	27.2	19.4	29.0
125	21.9	13.0	19.4#

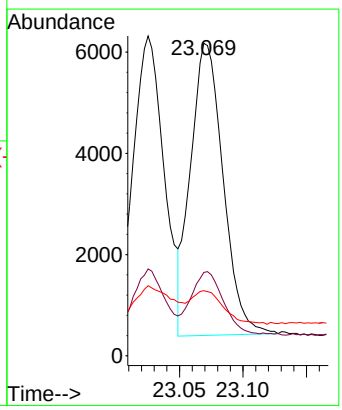


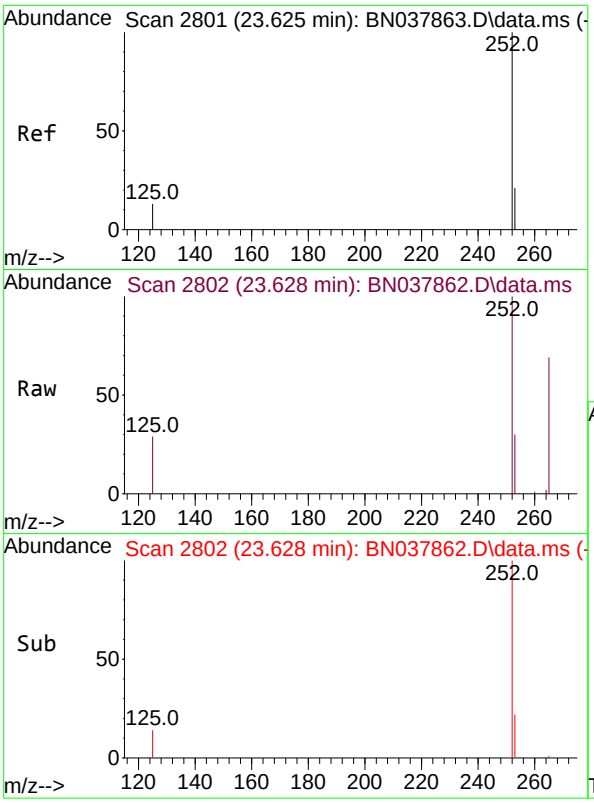


#38
Benzo(k)fluoranthene
Concen: 0.183 ng
RT: 23.069 min Scan# 2611
Delta R.T. -0.003 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:252 Resp: 10290

Ion	Ratio	Lower	Upper
252	100		
253	26.7	19.5	29.3
125	20.9	13.0	19.4#



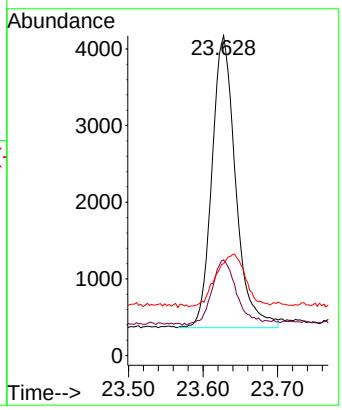


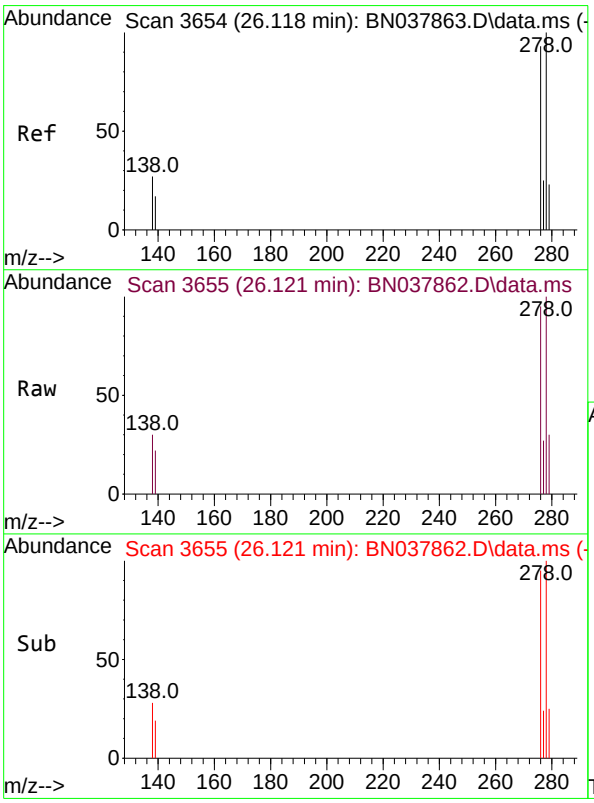
#39
Benzo(a)pyrene
Concen: 0.190 ng
RT: 23.628 min Scan# 28
Delta R.T. 0.003 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 8405

Ion	Ratio	Lower	Upper
252	100		
253	29.9	20.6	30.8
125	28.7	16.7	25.1#

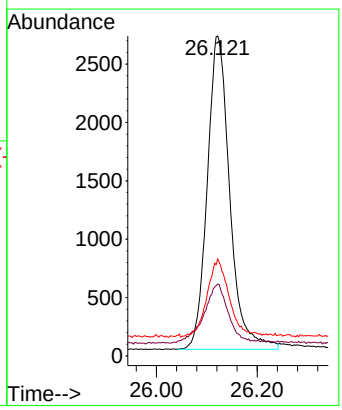


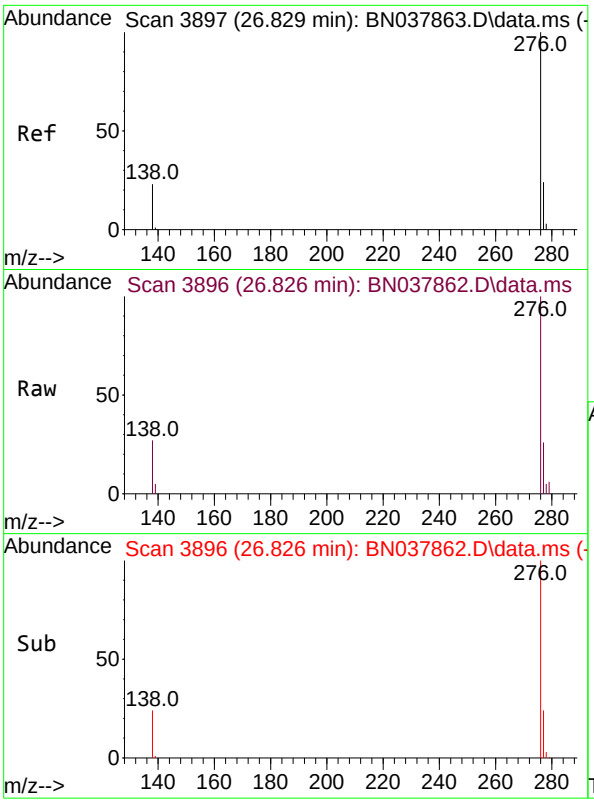


#40
Dibenzo(a,h)anthracene
Concen: 0.180 ng
RT: 26.121 min Scan# 3655
Delta R.T. 0.003 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:278 Resp: 8321

Ion	Ratio	Lower	Upper
278	100		
139	22.4	15.4	23.2
279	30.3	20.8	31.2



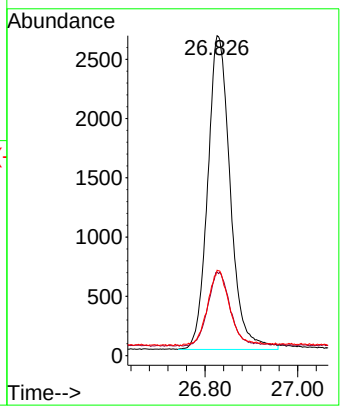


#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 26.826 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 8956

Ion	Ratio	Lower	Upper
276	100		
277	26.1	20.2	30.4
138	26.7	19.8	29.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037863.D
Acq On : 23 Sep 2025 13:25
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Sep 23 16:21:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.825	152	5584	0.400	ng		0.00
7) Naphthalene-d8	10.626	136	15792	0.400	ng		0.00
13) Acenaphthene-d10	14.473	164	8247	0.400	ng		0.00
19) Phenanthrene-d10	17.223	188	15939	0.400	ng		0.00
29) Chrysene-d12	21.402	240	13579	0.400	ng		0.00
35) Perylene-d12	23.727	264	12579	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.384	112	4779	0.375	ng		0.00
5) Phenol-d6	6.973	99	6244	0.373	ng		0.00
8) Nitrobenzene-d5	8.971	82	4566	0.379	ng		0.00
11) 2-Methylnaphthalene-d10	12.217	152	7877	0.359	ng		0.00
14) 2,4,6-Tribromophenol	15.969	330	1117	0.336	ng		0.00
15) 2-Fluorobiphenyl	13.094	172	12861	0.381	ng		0.00
27) Fluoranthene-d10	19.253	212	14130	0.352	ng		0.00
31) Terphenyl-d14	19.852	244	10222	0.378	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	2288	0.404	ng		100
3) n-Nitrosodimethylamine	3.601	42	2885	0.383	ng		100
6) bis(2-Chloroethyl)ether	7.240	93	6041	0.389	ng		100
9) Naphthalene	10.669	128	16547	0.380	ng		100
10) Hexachlorobutadiene	10.979	225	2874	0.387	ng	#	100
12) 2-Methylnaphthalene	12.293	142	10542	0.371	ng		100
16) Acenaphthylene	14.195	152	13712	0.366	ng		100
17) Acenaphthene	14.537	154	9880	0.370	ng		100
18) Fluorene	15.523	166	11975	0.371	ng		100
20) 4,6-Dinitro-2-methylph...	15.597	198	696	0.406	ng		100
21) 4-Bromophenyl-phenylether	16.416	248	3896	0.375	ng		100
22) Hexachlorobenzene	16.540	284	4854	0.385	ng		100
23) Atrazine	16.689	200	2739	0.346	ng		100
24) Pentachlorophenol	16.875	266	1466	0.339	ng		100
25) Phenanthrene	17.260	178	19609	0.374	ng		100
26) Anthracene	17.360	178	16310	0.358	ng		100
28) Fluoranthene	19.285	202	20902	0.362	ng		100
30) Pyrene	19.647	202	20652	0.385	ng		100
32) Benzo(a)anthracene	21.384	228	17571	0.370	ng		100
33) Chrysene	21.438	228	19852	0.387	ng		100
34) Bis(2-ethylhexyl)phtha...	21.322	149	6617	0.352	ng		99
36) Indeno(1,2,3-cd)pyrene	26.107	276	20858	0.363	ng		100
37) Benzo(b)fluoranthene	23.025	252	20638	0.380	ng		100
38) Benzo(k)fluoranthene	23.072	252	20090	0.368	ng		100
39) Benzo(a)pyrene	23.625	252	15479	0.361	ng		100
40) Dibenzo(a,h)anthracene	26.118	278	16392	0.365	ng		100
41) Benzo(g,h,i)perylene	26.829	276	17656	0.374	ng		100

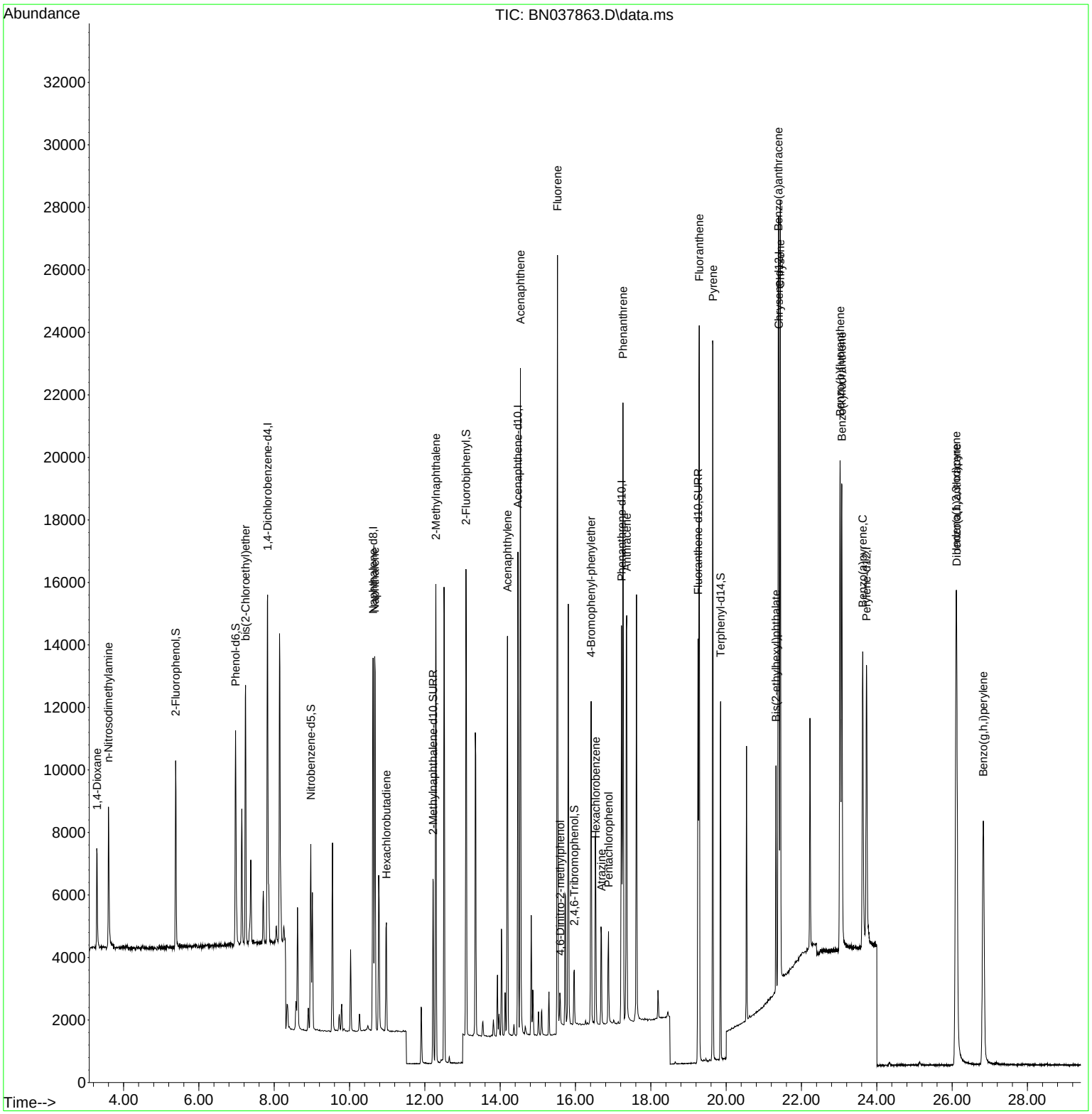
(#) = qualifier out of range (m) = manual integration (+) = signals summed

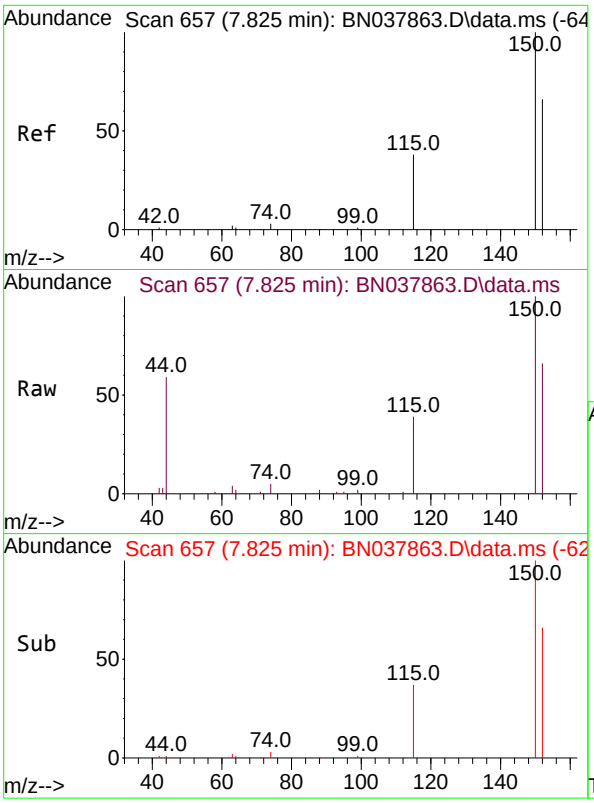
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037863.D
Acq On : 23 Sep 2025 13:25
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Sep 23 16:21:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



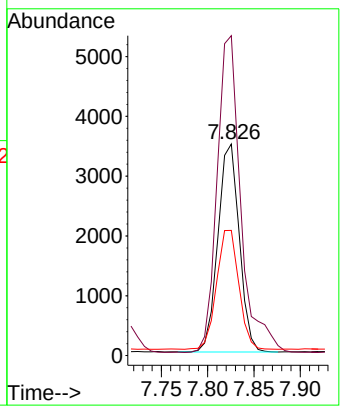


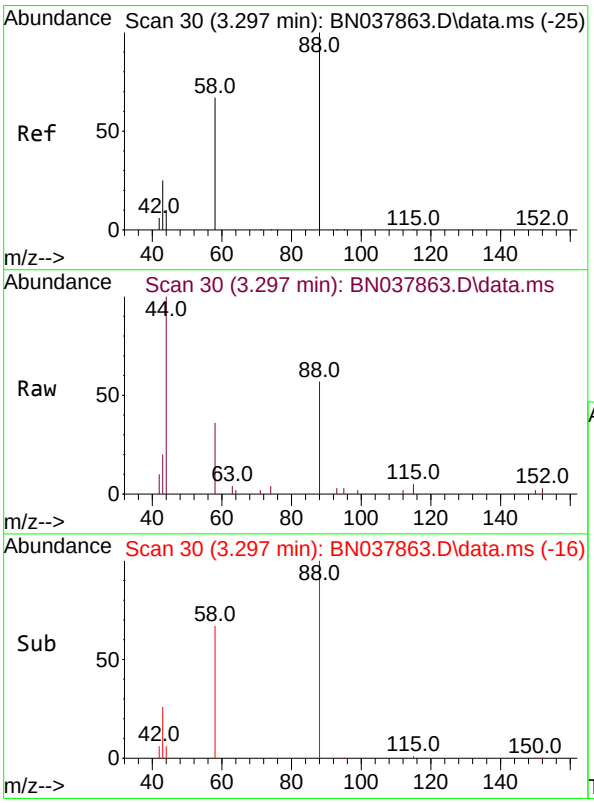
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 5584

Ion	Ratio	Lower	Upper
152	100		
150	151.2	121.0	181.4
115	59.2	47.4	71.0

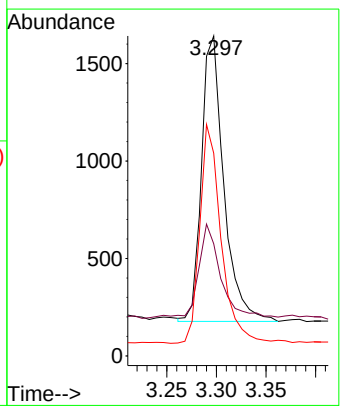


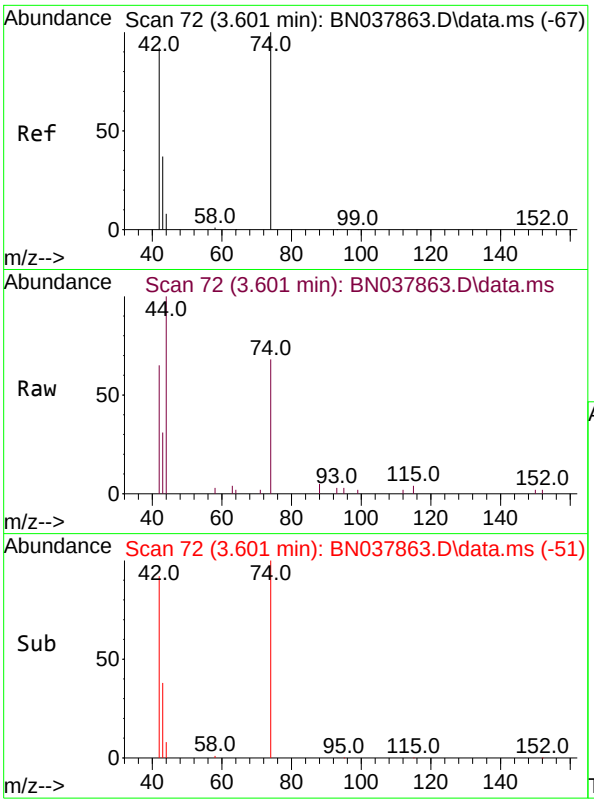


#2
1,4-Dioxane
Concen: 0.404 ng
RT: 3.297 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion: 88 Resp: 2288

Ion	Ratio	Lower	Upper
88	100		
43	33.2	26.6	39.8
58	73.6	58.9	88.3



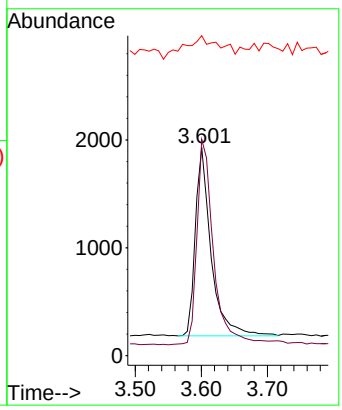


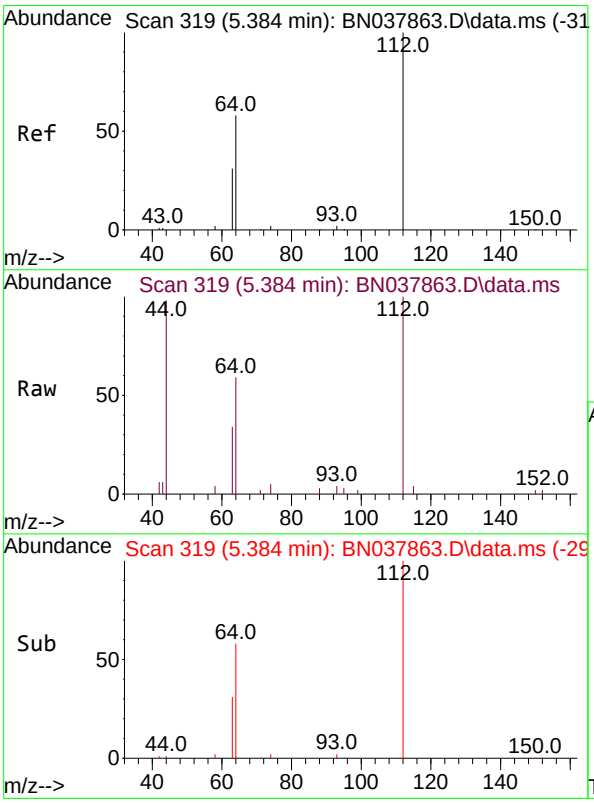
#3
n-Nitrosodimethylamine
Concen: 0.383 ng
RT: 3.601 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 2885

Ion	Ratio	Lower	Upper
42	100		
74	116.7	93.4	140.0
44	27.8	22.2	33.4

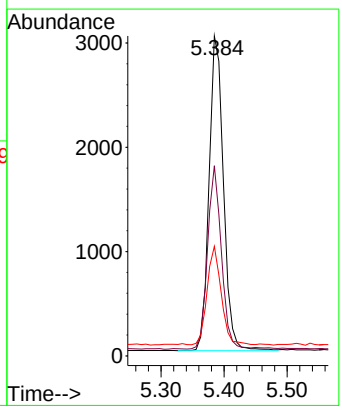


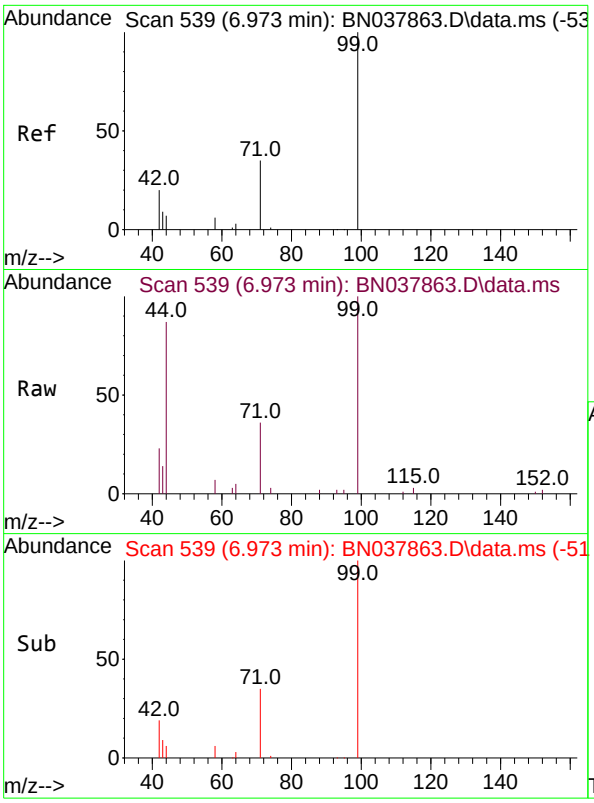


#4
2-Fluorophenol
Concen: 0.375 ng
RT: 5.384 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:112 Resp: 4779

Ion	Ratio	Lower	Upper
112	100		
64	55.7	44.6	66.8
63	31.1	24.9	37.3



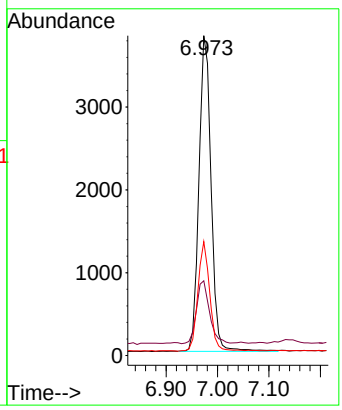


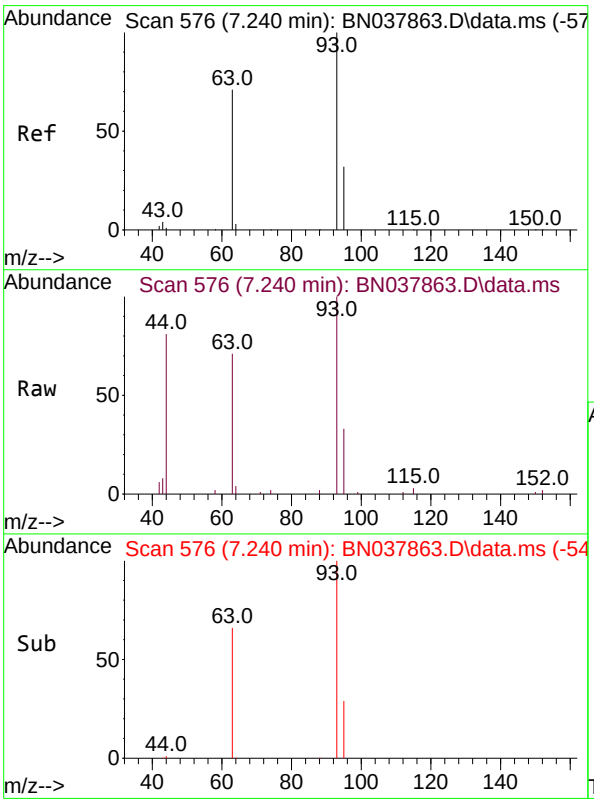
#5
Phenol-d6
Concen: 0.373 ng
RT: 6.973 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 6244

Ion	Ratio	Lower	Upper
99	100		
42	21.5	17.2	25.8
71	34.1	27.3	40.9

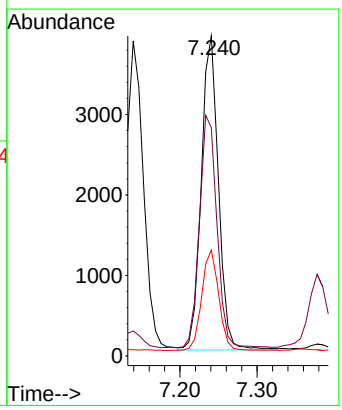


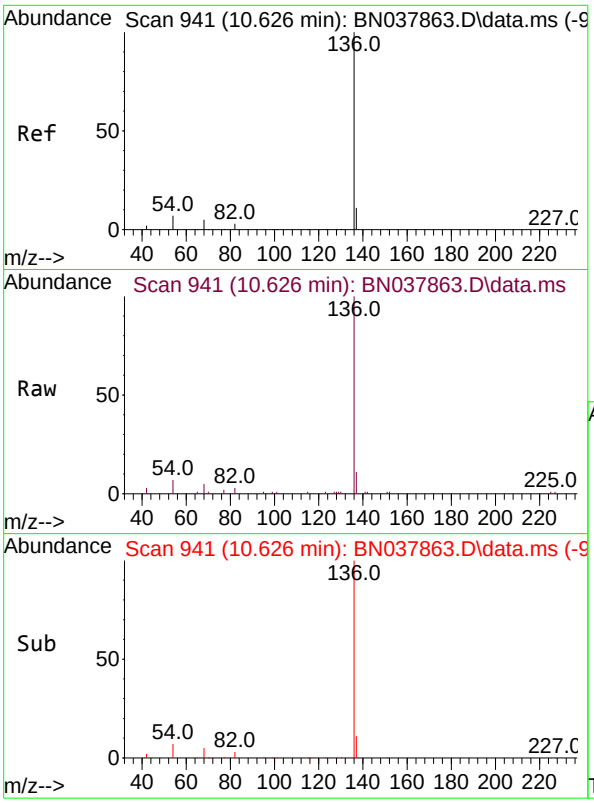


#6
bis(2-Chloroethyl)ether
Concen: 0.389 ng
RT: 7.240 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion: 93 Resp: 6041

Ion	Ratio	Lower	Upper
93	100		
63	75.1	60.1	90.1
95	31.8	25.4	38.2



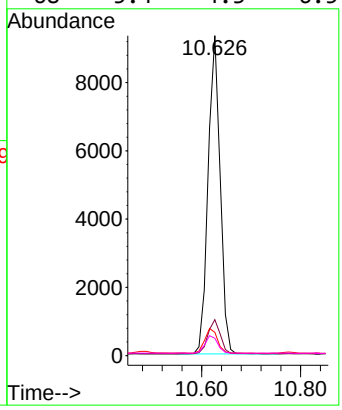


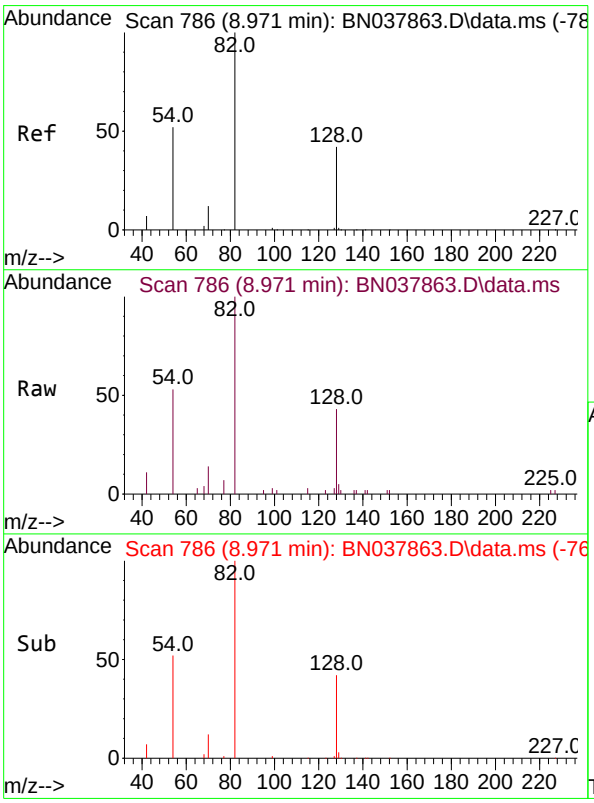
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 15792

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	7.3	5.8	8.8
68	5.4	4.3	6.5

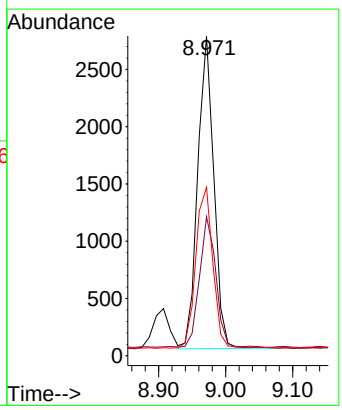


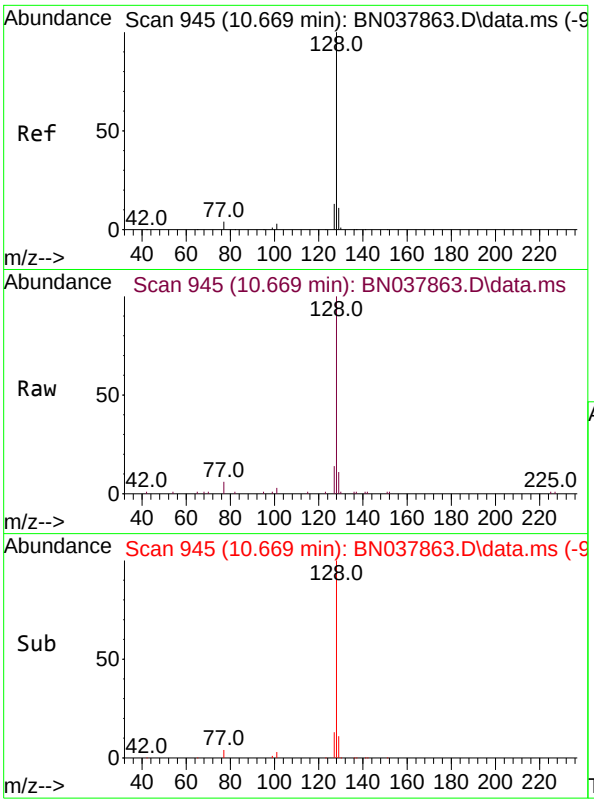


#8
Nitrobenzene-d5
Concen: 0.379 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion: 82 Resp: 4566

Ion	Ratio	Lower	Upper
82	100		
128	43.5	34.8	52.2
54	52.7	42.2	63.2



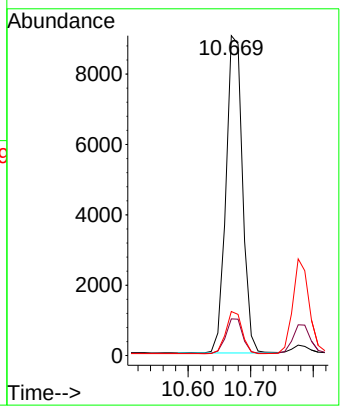


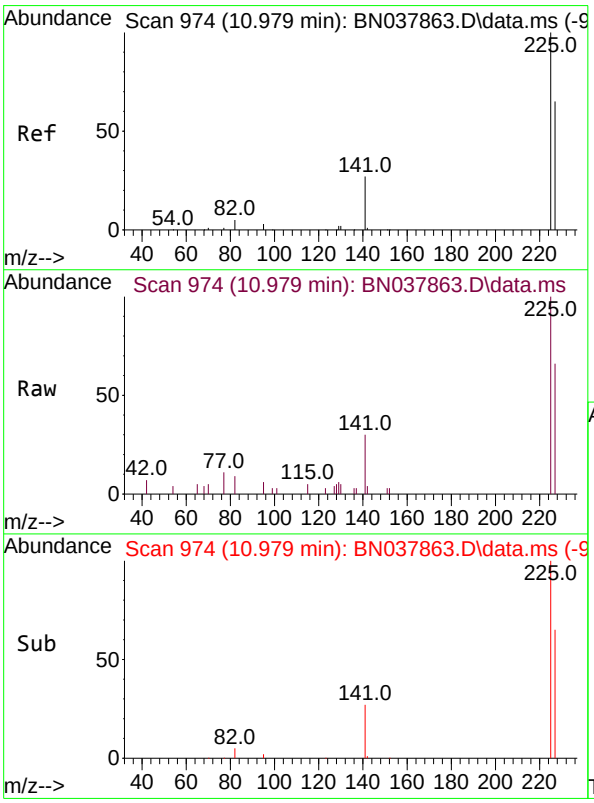
#9
Naphthalene
Concen: 0.380 ng
RT: 10.669 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 16547

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	13.8	11.0	16.6

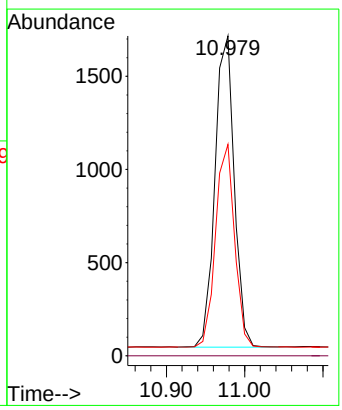


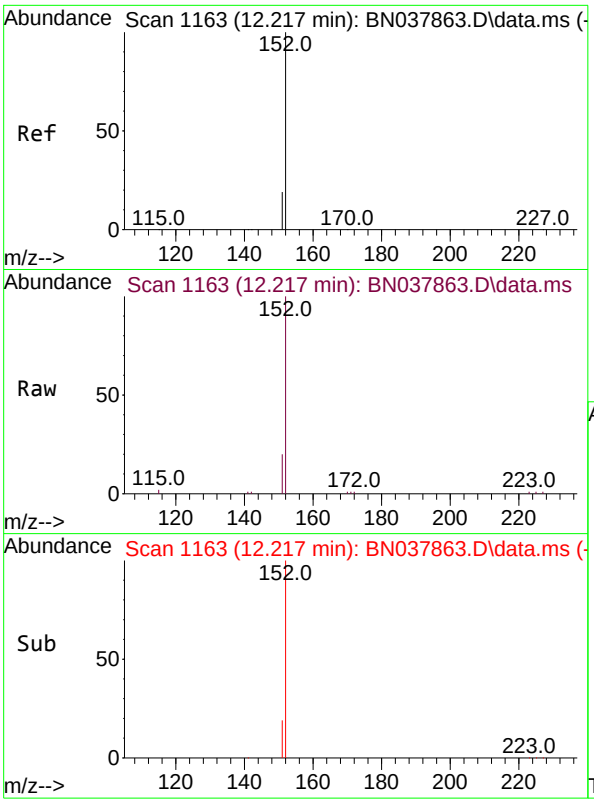


#10
Hexachlorobutadiene
Concen: 0.387 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:225 Resp: 2874

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.4	77.2



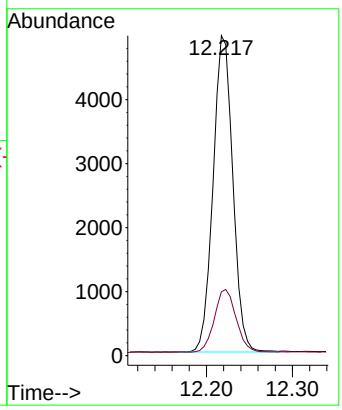


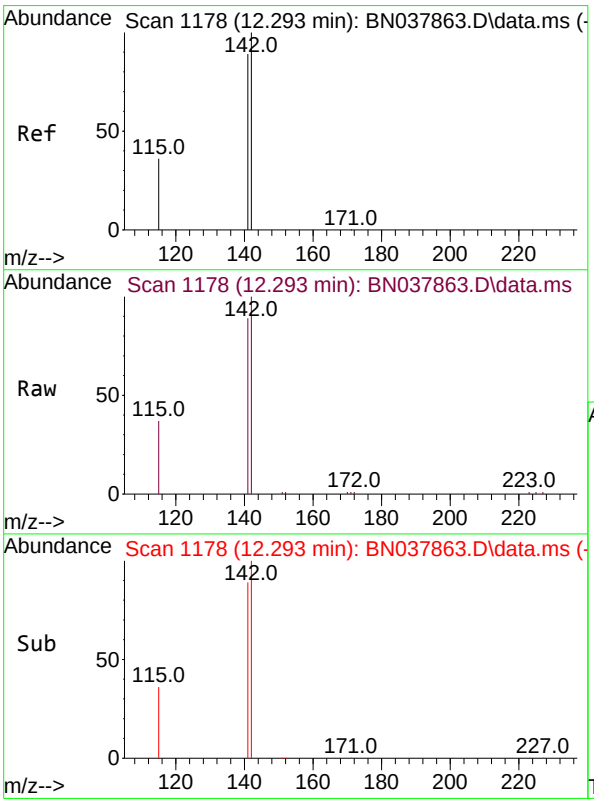
#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 12.217 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 7877

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.4	26.2

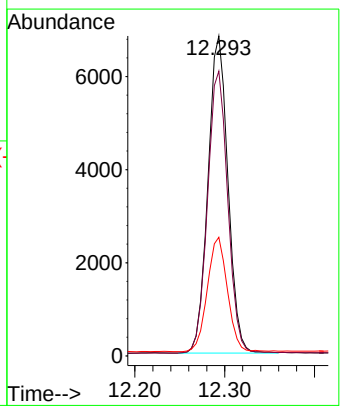


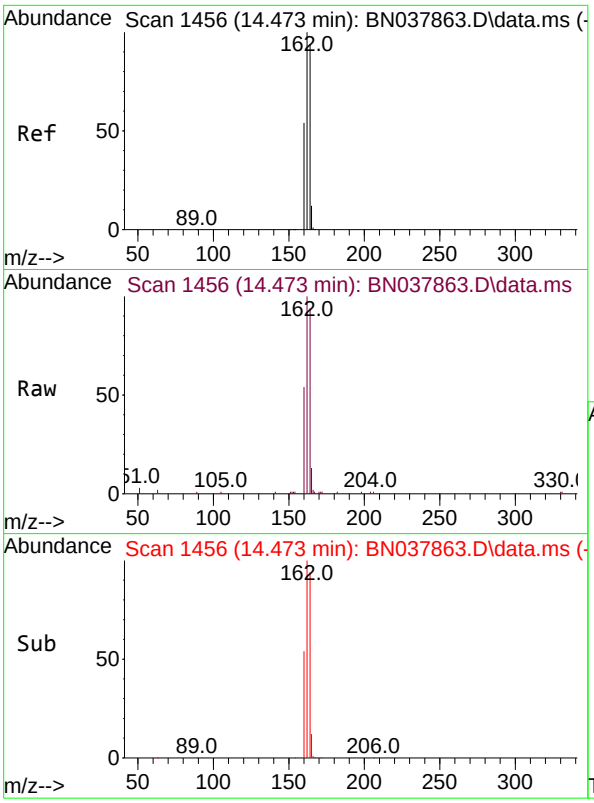


#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 12.293 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:142 Resp: 10542

Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.2	106.8
115	37.1	29.7	44.5



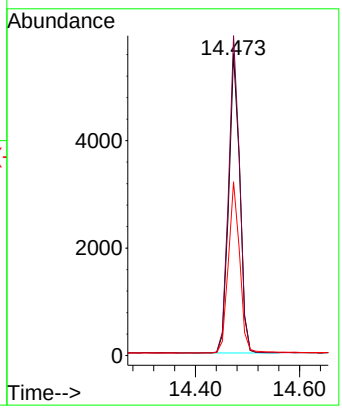


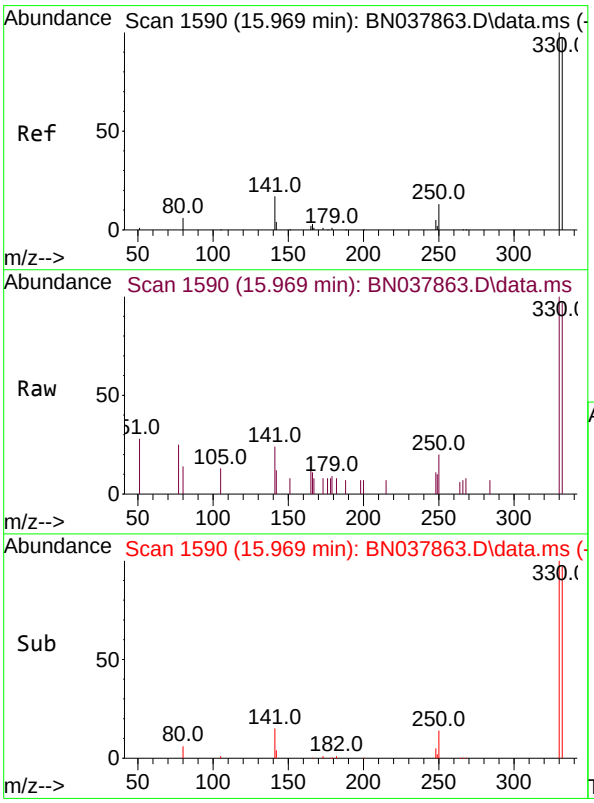
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 8247

Ion	Ratio	Lower	Upper
164	100		
162	106.0	84.8	127.2
160	57.6	46.1	69.1

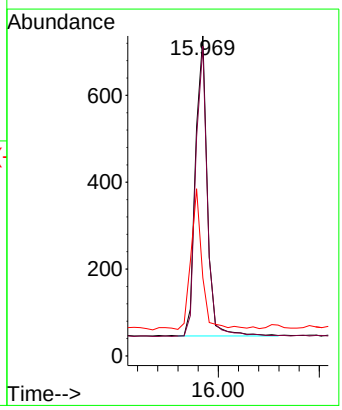


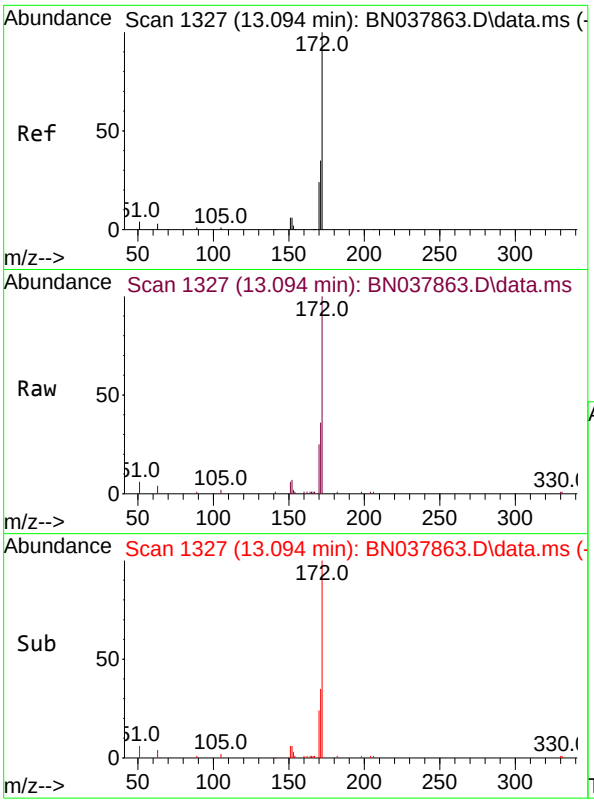


#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:330 Resp: 1117

Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.2	115.8
141	46.4	37.2	55.8



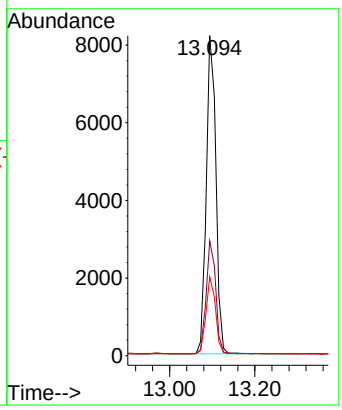


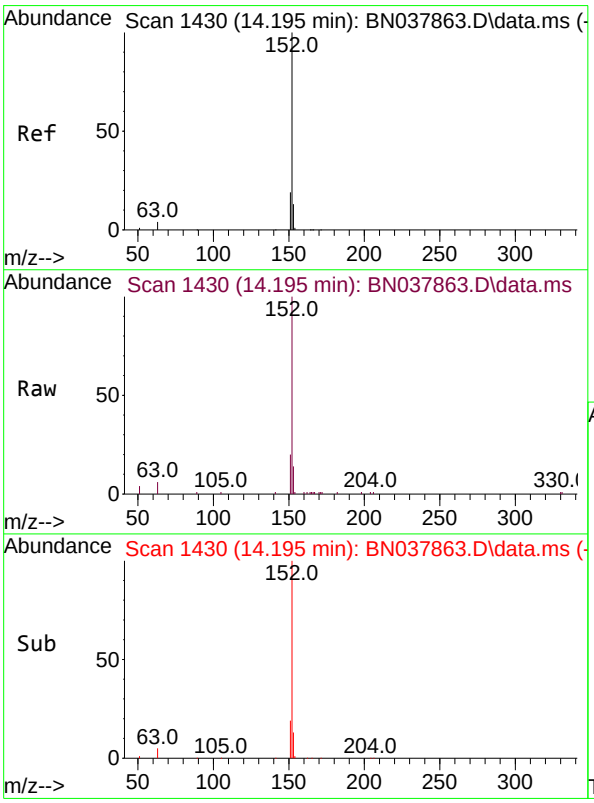
#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 13.094 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 12861

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.6	19.7	29.5

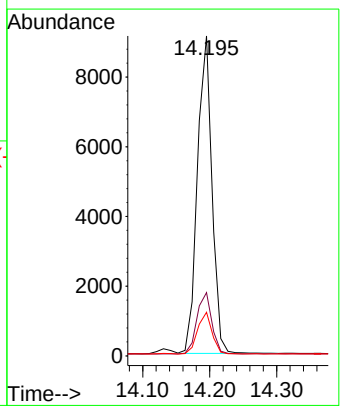


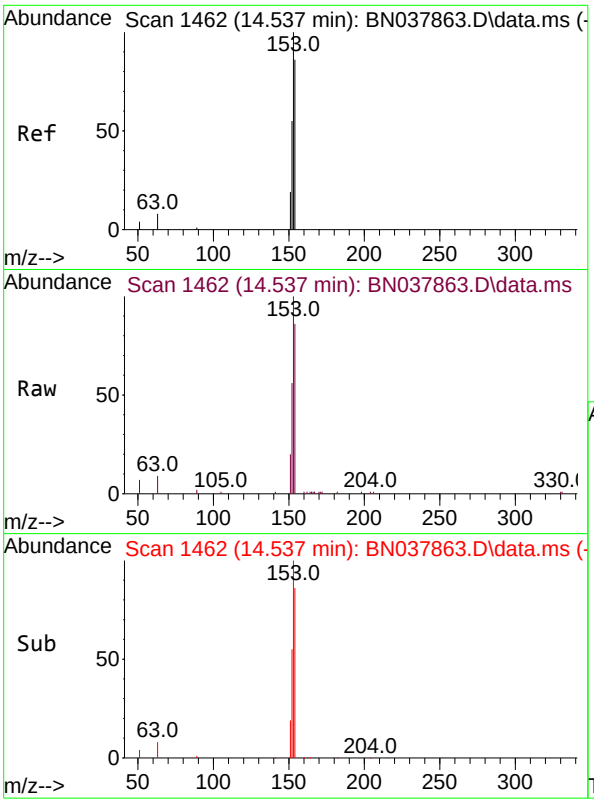


#16
Acenaphthylene
Concen: 0.366 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:152 Resp: 13712

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	13.1	10.5	15.7



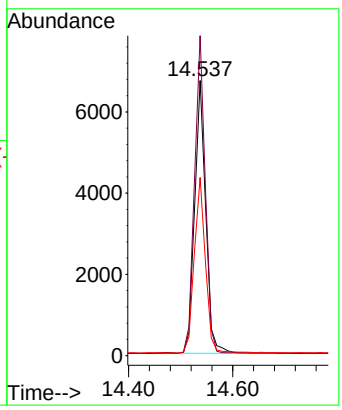


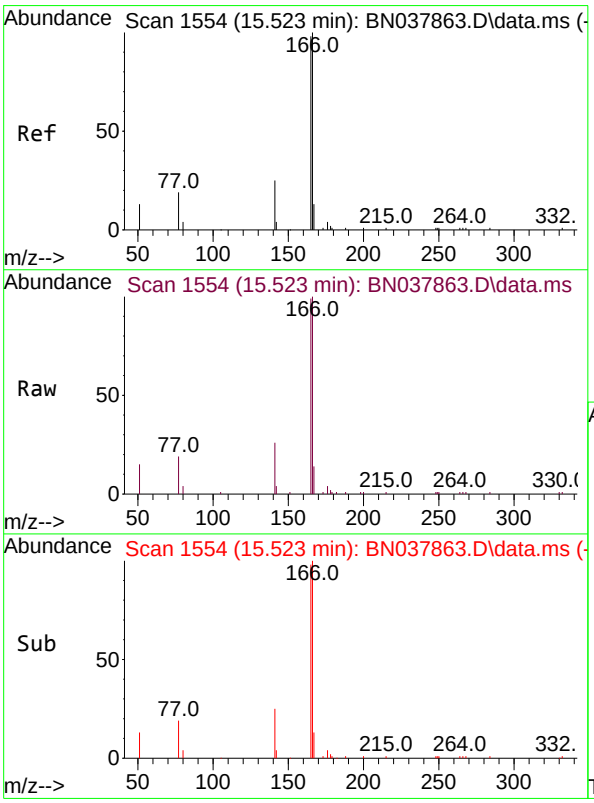
#17
Acenaphthene
Concen: 0.370 ng
RT: 14.537 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 9880

Ion	Ratio	Lower	Upper
154	100		
153	113.1	90.5	135.7
152	64.8	51.8	77.8

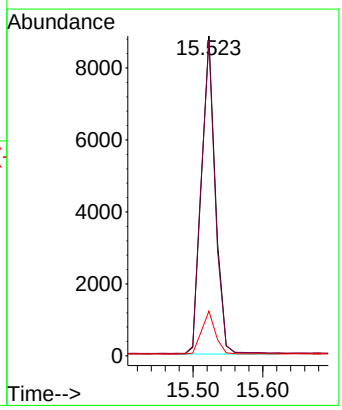


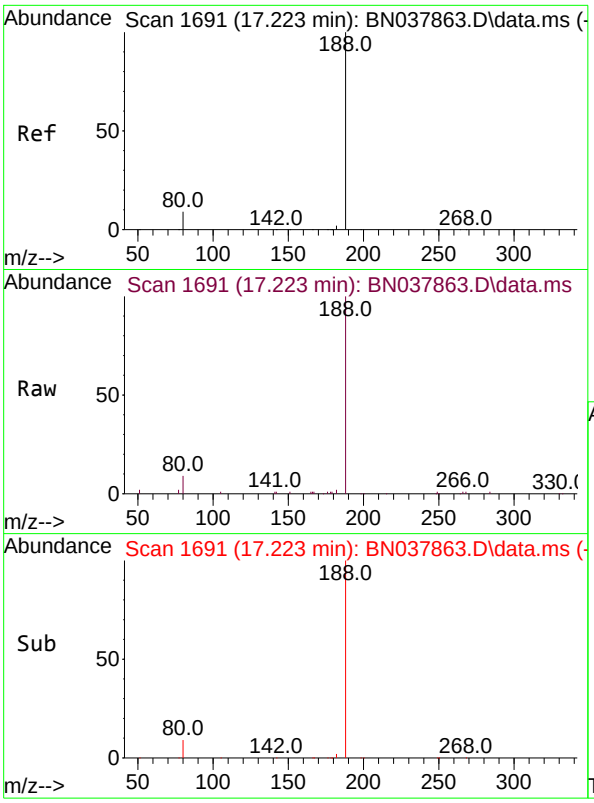


#18
Fluorene
Concen: 0.371 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:166 Resp: 11975

Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.0	118.4
167	13.3	10.6	16.0



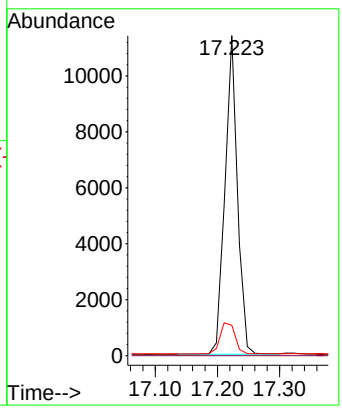


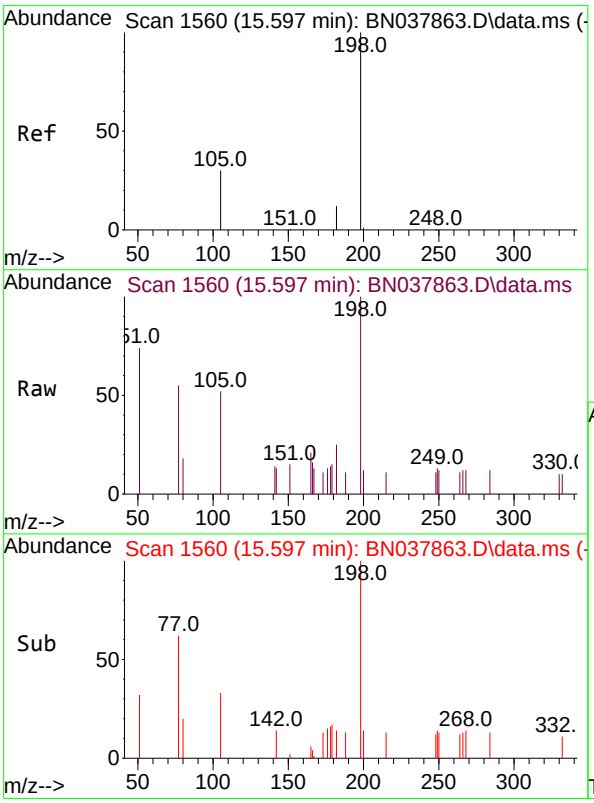
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 15939

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.5	7.6	11.4

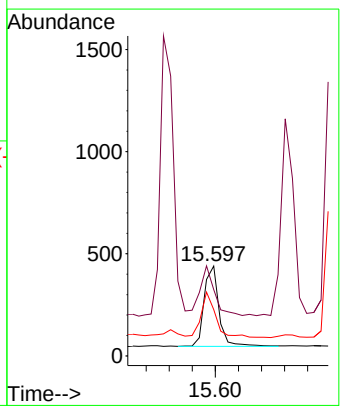


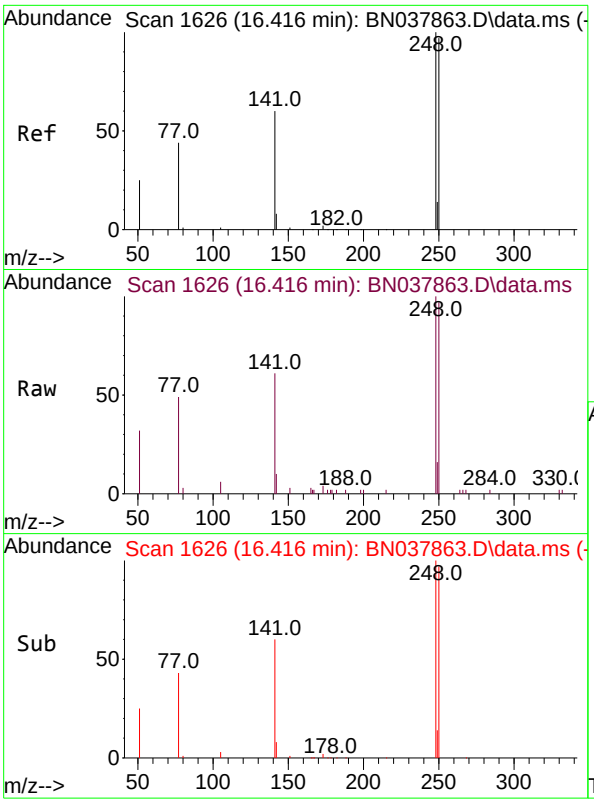


#20
4,6-Dinitro-2-methylphenol
Concen: 0.406 ng
RT: 15.597 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:198 Resp: 696

Ion	Ratio	Lower	Upper
198	100		
51	73.9	59.1	88.7
105	51.6	41.3	61.9



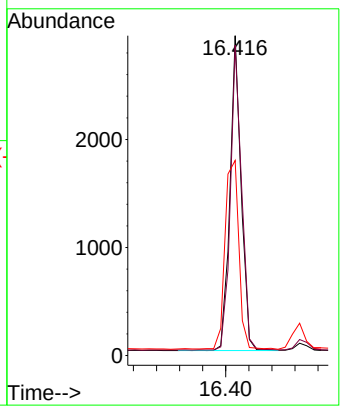


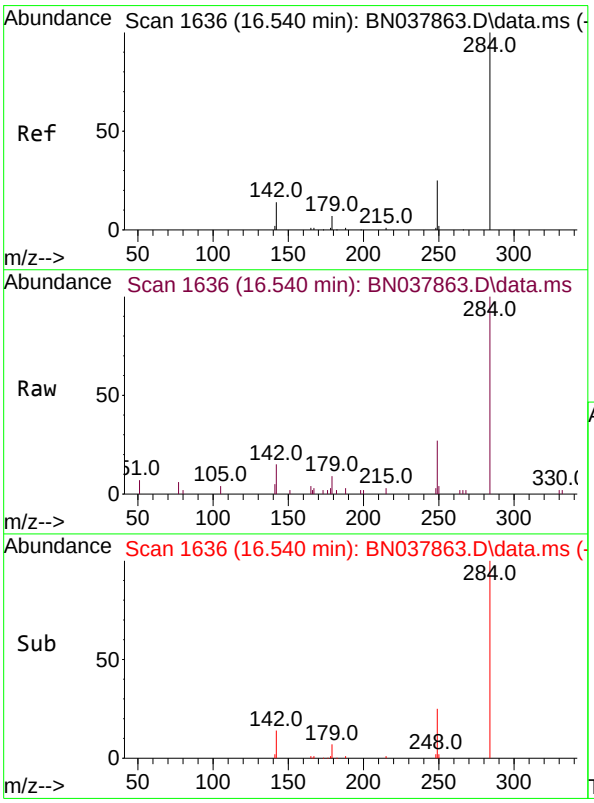
#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.416 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 3896

Ion	Ratio	Lower	Upper
248	100		
250	97.0	77.6	116.4
141	61.0	48.8	73.2

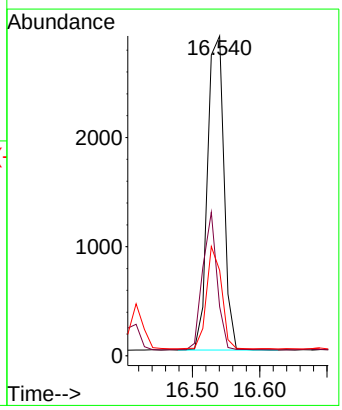


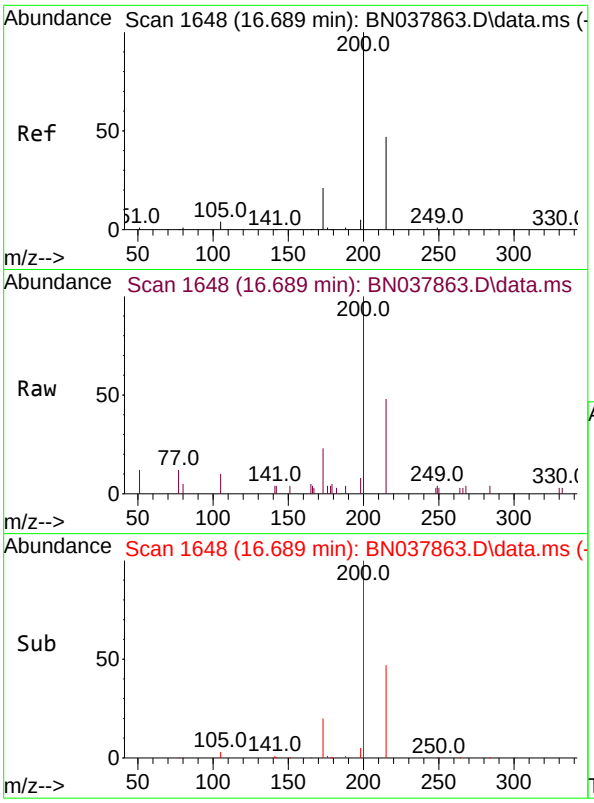


#22
Hexachlorobenzene
Concen: 0.385 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:284 Resp: 4854

Ion	Ratio	Lower	Upper
284	100		
142	38.6	30.9	46.3
249	29.9	23.9	35.9



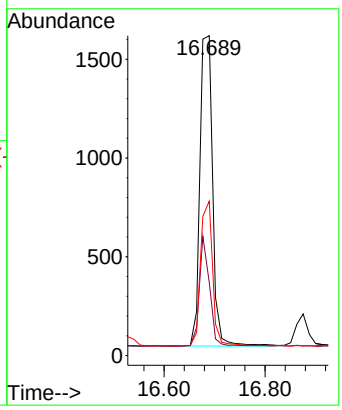


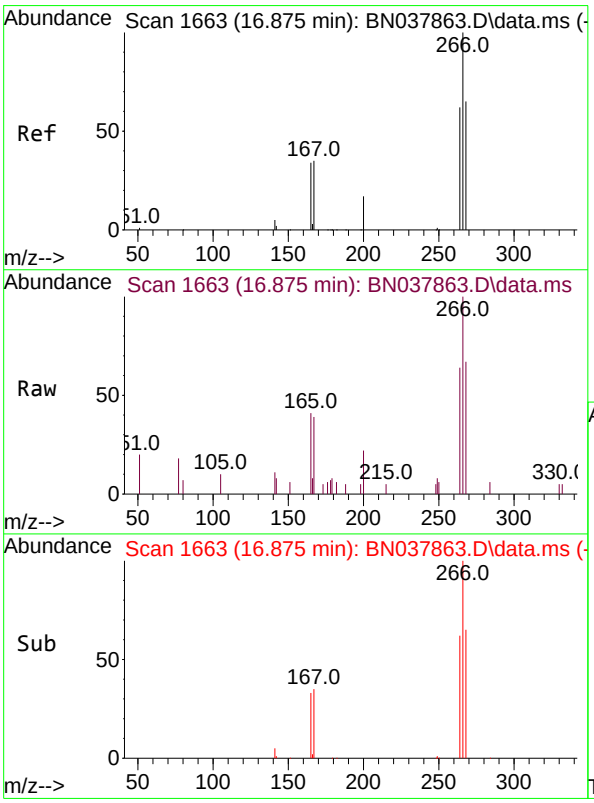
#23
Atrazine
Concen: 0.346 ng
RT: 16.689 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 2739

Ion	Ratio	Lower	Upper
200	100		
173	22.9	18.3	27.5
215	48.3	38.6	58.0

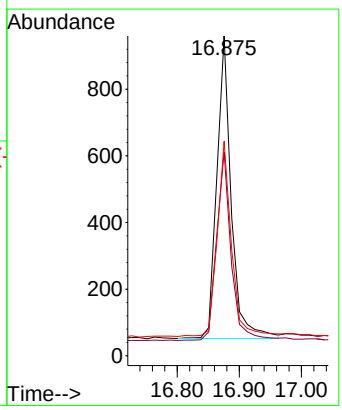


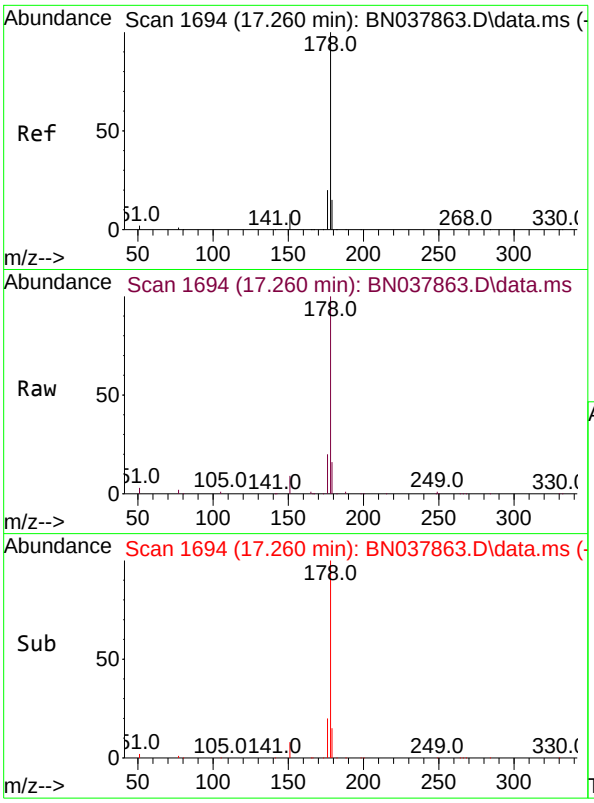


#24
Pentachlorophenol
Concen: 0.339 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:266 Resp: 1466

Ion	Ratio	Lower	Upper
266	100		
264	63.6	50.9	76.3
268	67.9	54.3	81.5



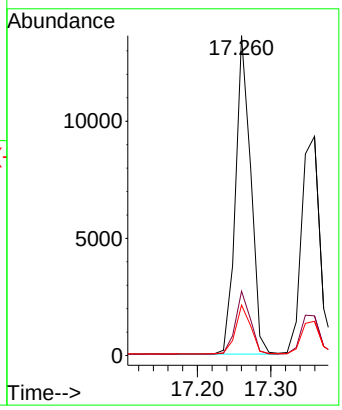


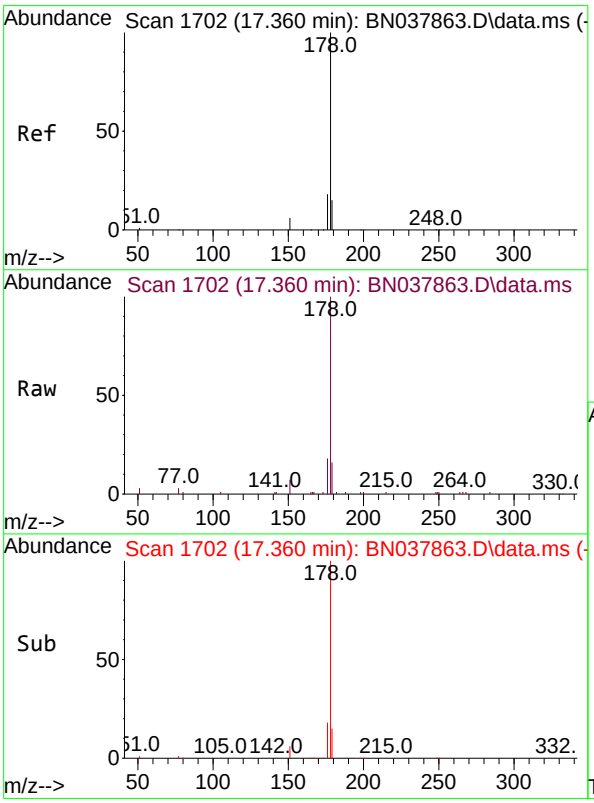
#25
Phenanthrene
Concen: 0.374 ng
RT: 17.260 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 19609

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.4	12.3	18.5

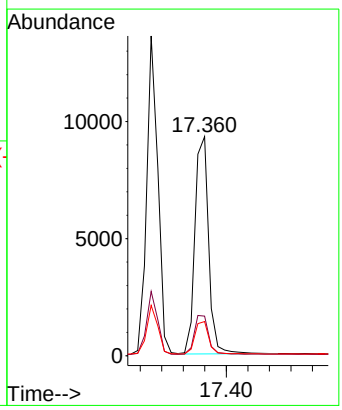


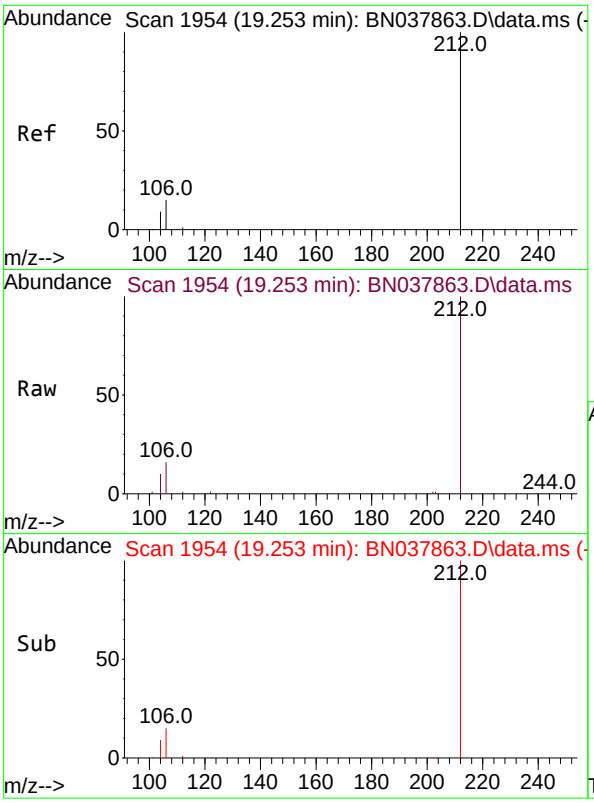


#26
Anthracene
Concen: 0.358 ng
RT: 17.360 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:178 Resp: 16310

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.4	12.3	18.5



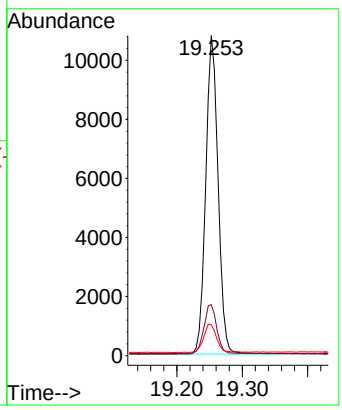


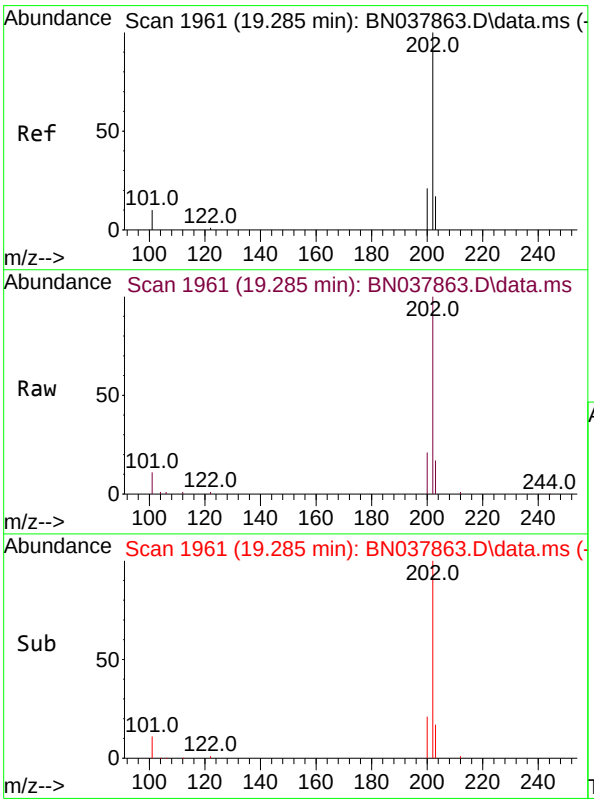
#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 19.253 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 14130

Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.6	19.0
104	9.2	7.4	11.0

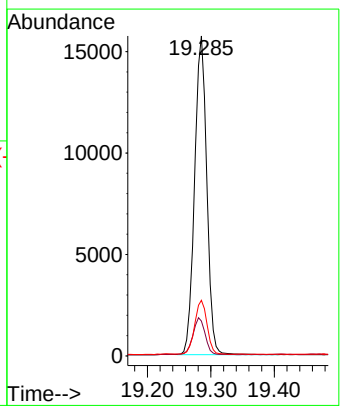


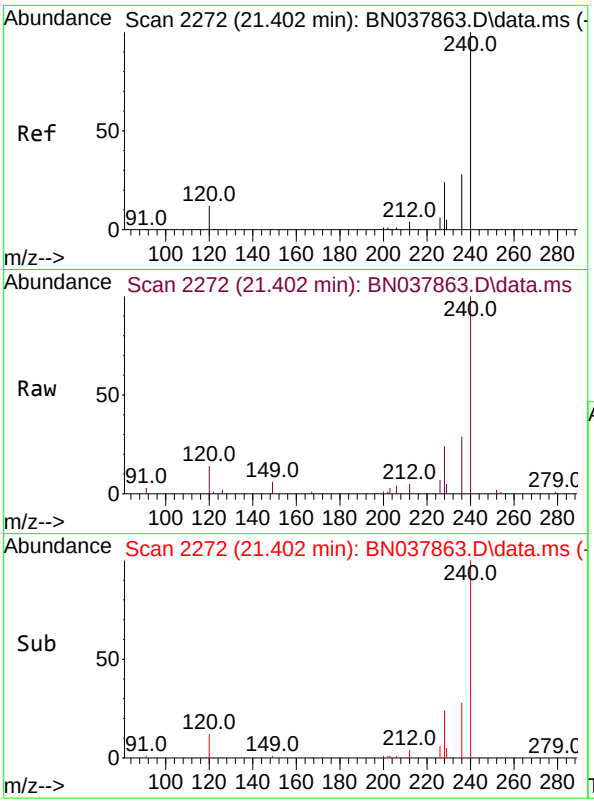


#28
Fluoranthene
Concen: 0.362 ng
RT: 19.285 min Scan# 1961
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:202 Resp: 20902

Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.3	13.9
203	17.0	13.6	20.4



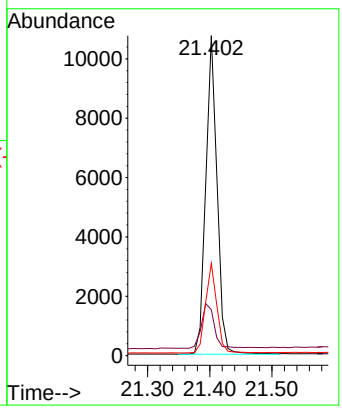


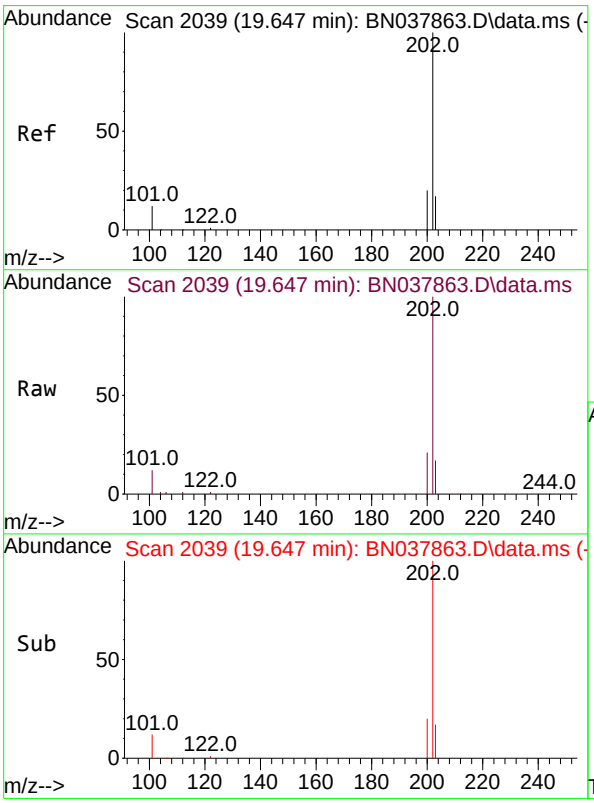
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 13579

Ion	Ratio	Lower	Upper
240	100		
120	14.3	11.4	17.2
236	28.8	23.0	34.6

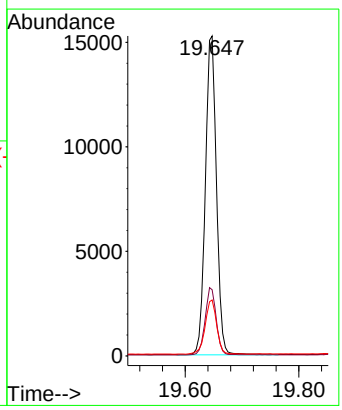


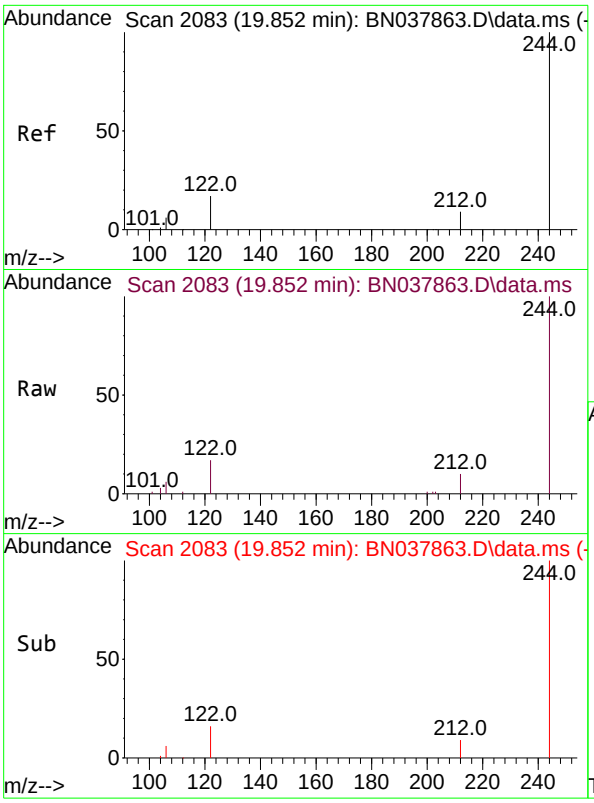


#30
Pyrene
Concen: 0.385 ng
RT: 19.647 min Scan# 2039
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:202 Resp: 20652

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	17.8	14.2	21.4



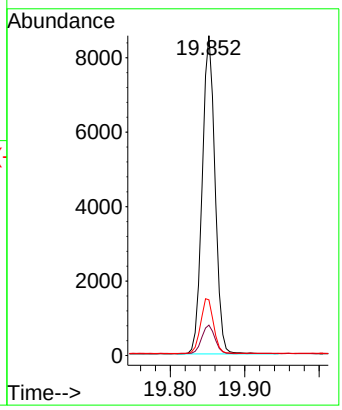


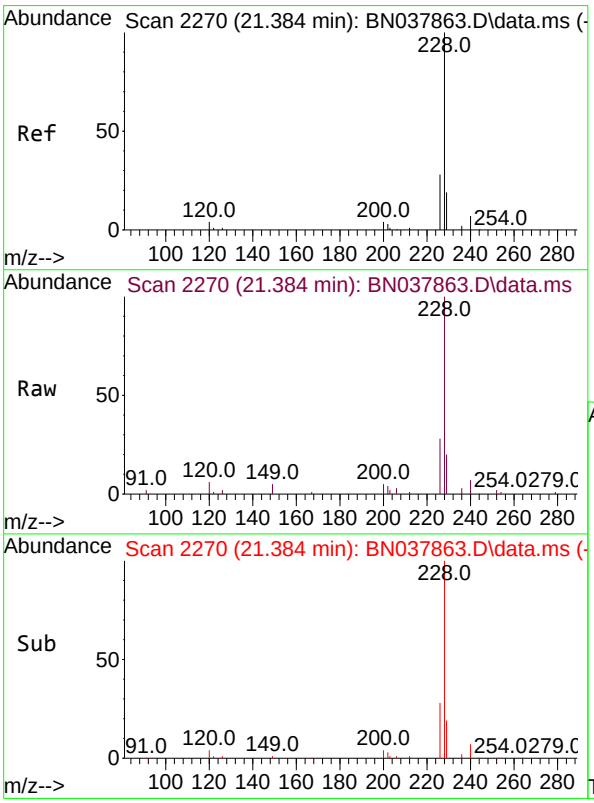
#31
Terphenyl-d14
Concen: 0.378 ng
RT: 19.852 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 10222

Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.4	13.9	20.9

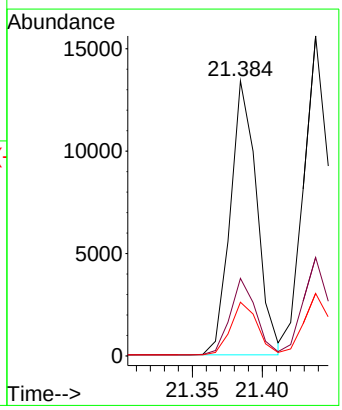


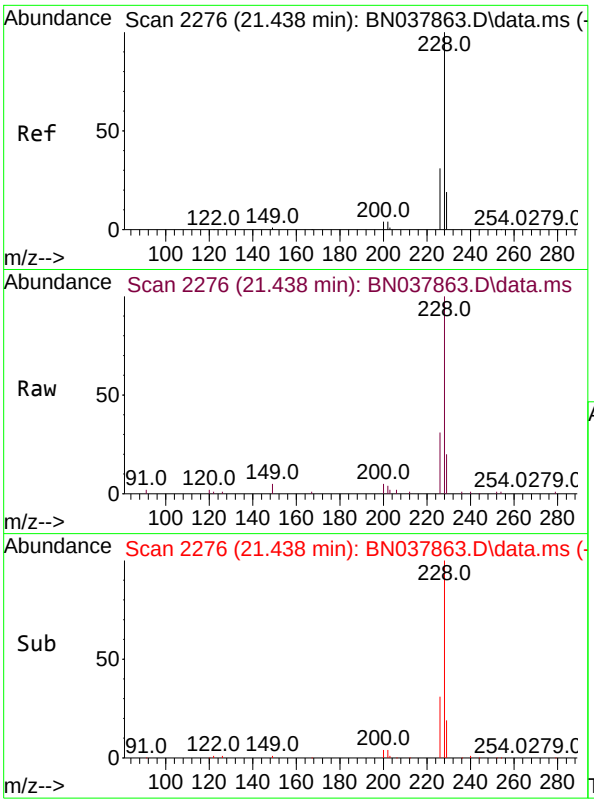


#32
Benzo(a)anthracene
Concen: 0.370 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:228 Resp: 17571

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	19.5	15.6	23.4



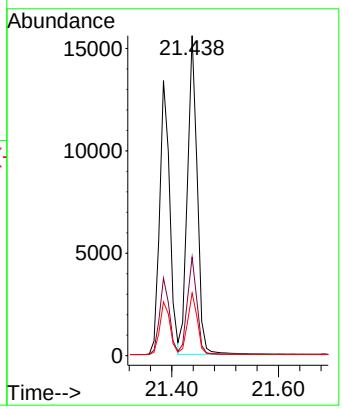


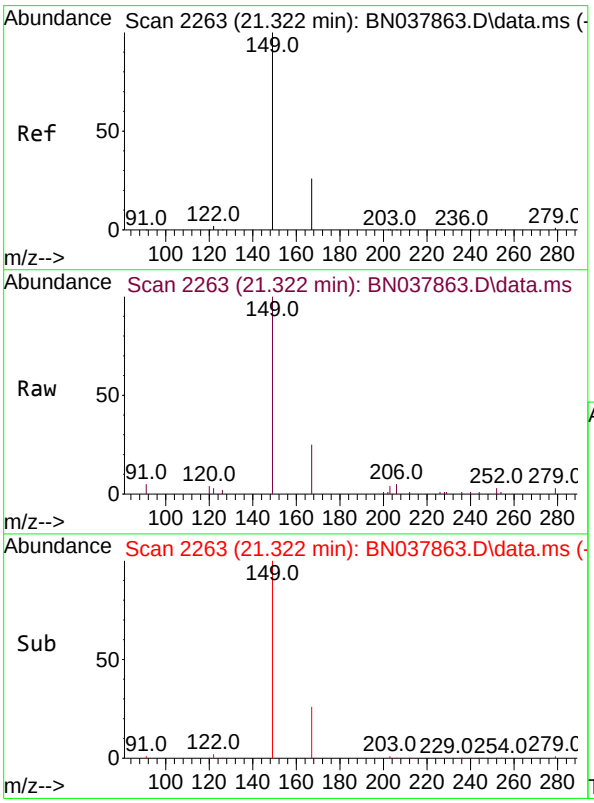
#33
Chrysene
Concen: 0.387 ng
RT: 21.438 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 19852

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.5	15.6	23.4

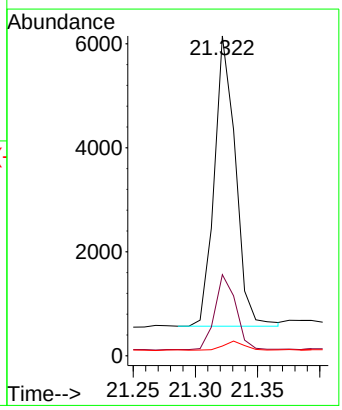


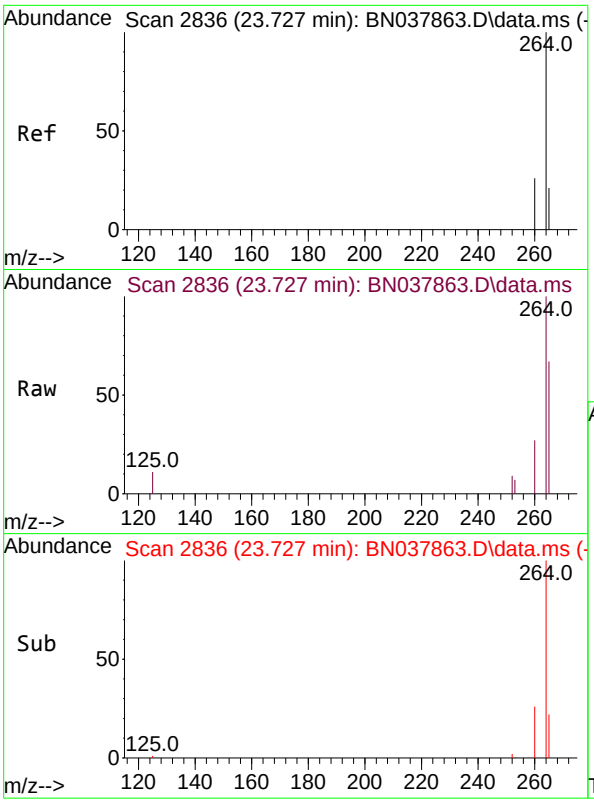


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.352 ng
RT: 21.322 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:149 Resp: 6617

Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.4	30.6
279	3.1	2.4	3.6



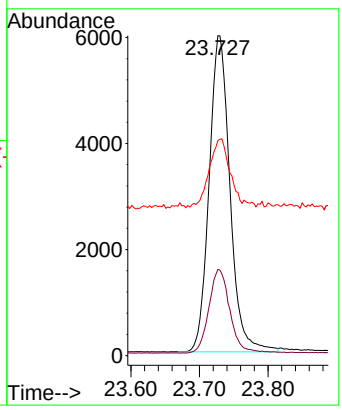


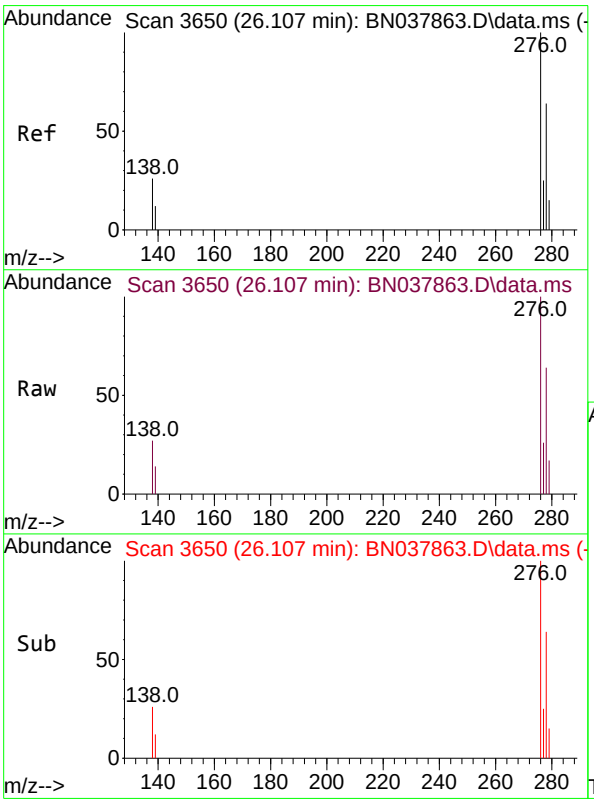
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.727 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 12579

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.5	32.3
265	67.2	53.8	80.6

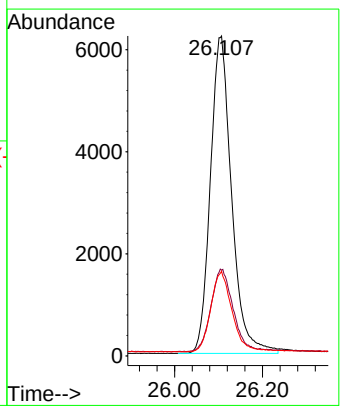


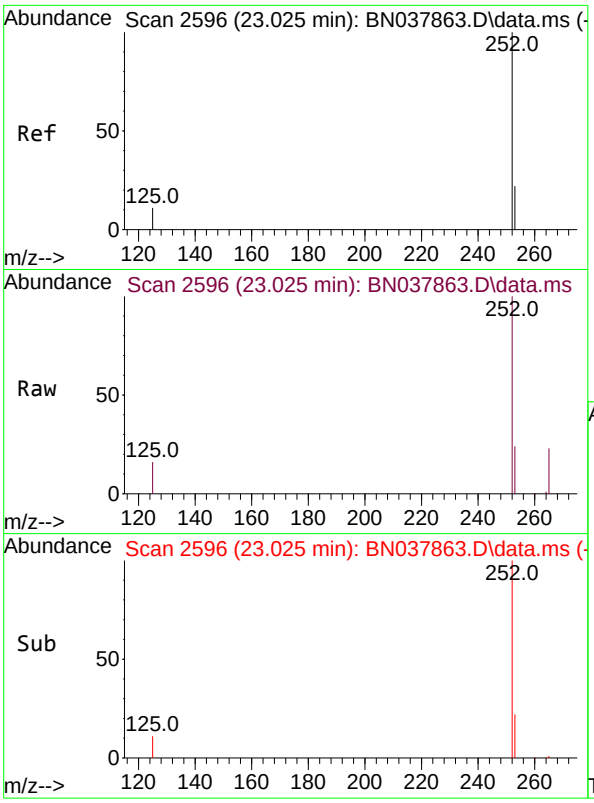


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.363 ng
RT: 26.107 min Scan# 3650
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:276 Resp: 20858

Ion	Ratio	Lower	Upper
276	100		
138	26.7	21.4	32.0
277	25.4	20.3	30.5



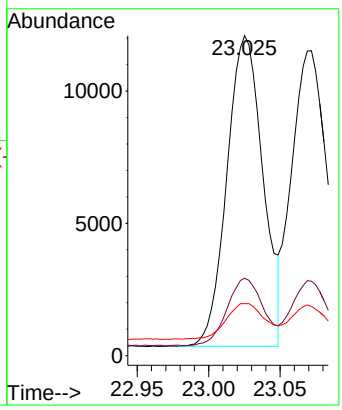


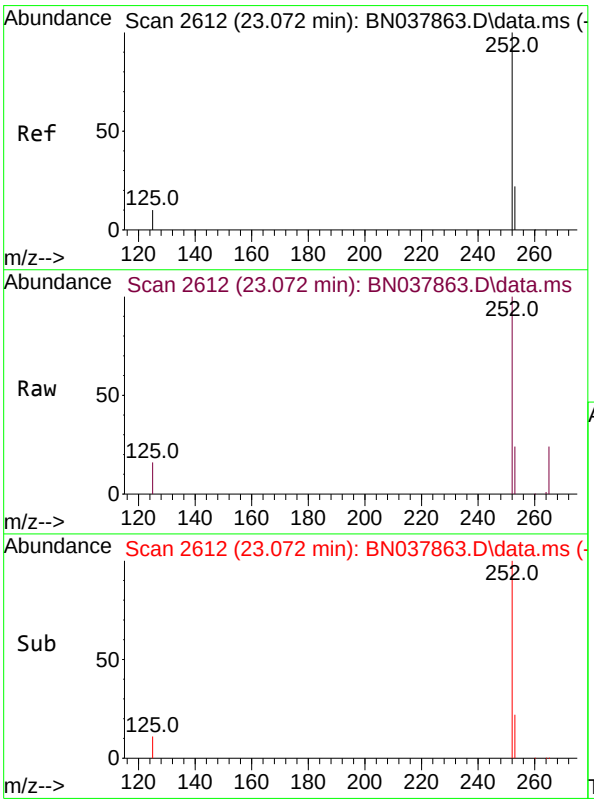
#37
Benzo(b)fluoranthene
Concen: 0.380 ng
RT: 23.025 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 20638

Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.4	29.0
125	16.2	13.0	19.4

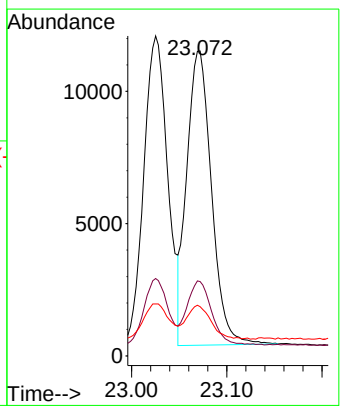


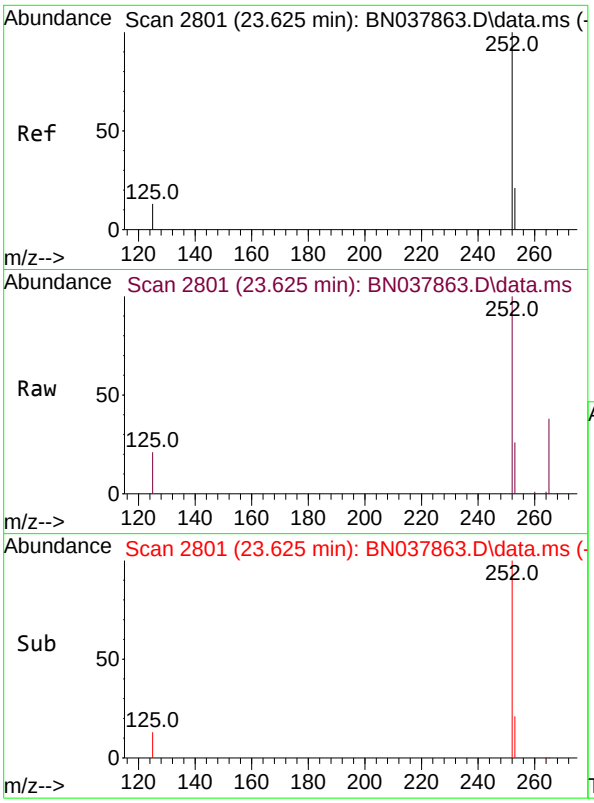


#38
Benzo(k)fluoranthene
Concen: 0.368 ng
RT: 23.072 min Scan# 2612
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:252 Resp: 20090

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.5	29.3
125	16.2	13.0	19.4



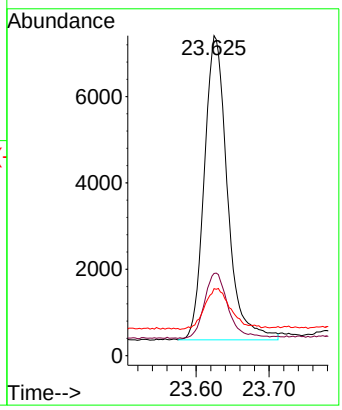


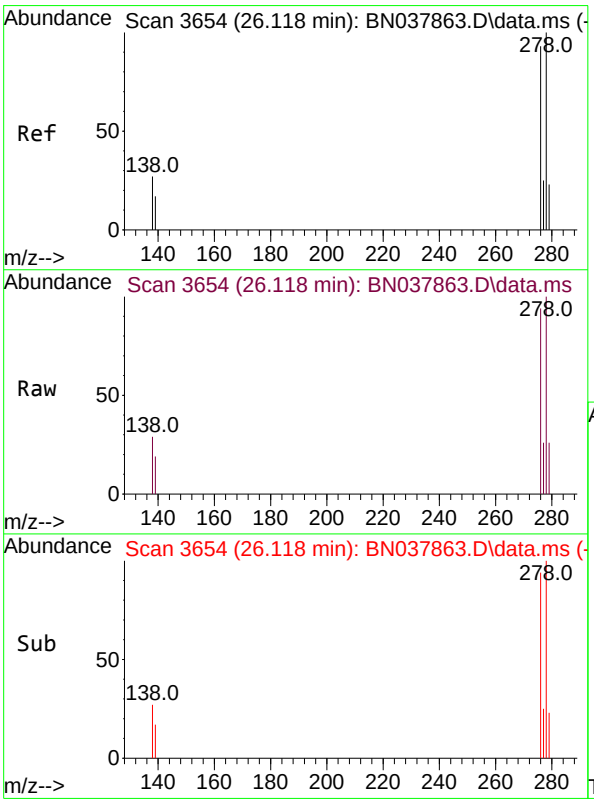
#39
Benzo(a)pyrene
Concen: 0.361 ng
RT: 23.625 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 15479

Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.6	30.8
125	20.9	16.7	25.1

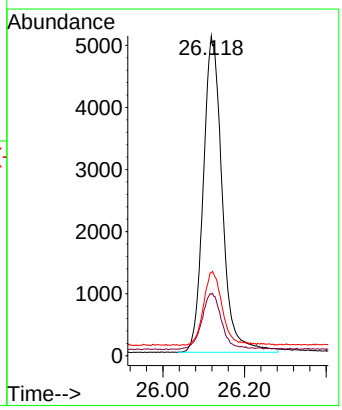


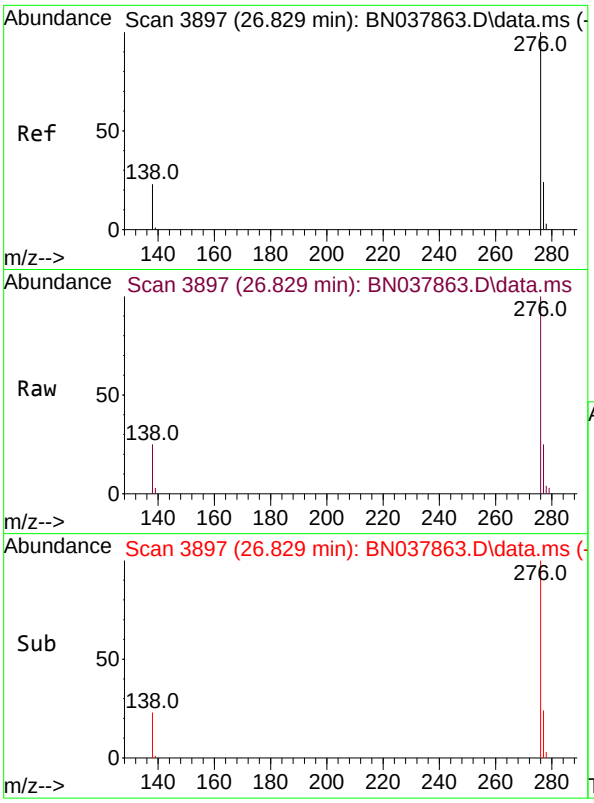


#40
Dibenzo(a,h)anthracene
Concen: 0.365 ng
RT: 26.118 min Scan# 3654
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:278 Resp: 16392

Ion	Ratio	Lower	Upper
278	100		
139	19.3	15.4	23.2
279	26.0	20.8	31.2



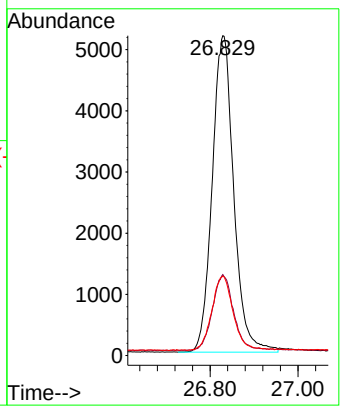


#41
Benzo(g,h,i)perylene
Concen: 0.374 ng
RT: 26.829 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 17656

Ion	Ratio	Lower	Upper
276	100		
277	25.3	20.2	30.4
138	24.8	19.8	29.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037864.D
Acq On : 23 Sep 2025 14:02
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Sep 23 16:22:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.825	152	5204	0.400	ng		0.00
7) Naphthalene-d8	10.626	136	14715	0.400	ng		0.00
13) Acenaphthene-d10	14.473	164	7889	0.400	ng		0.00
19) Phenanthrene-d10	17.223	188	15207	0.400	ng		0.00
29) Chrysene-d12	21.402	240	13674	0.400	ng		0.00
35) Perylene-d12	23.730	264	12464	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.384	112	8737	0.736	ng		0.00
5) Phenol-d6	6.973	99	11319	0.725	ng		0.00
8) Nitrobenzene-d5	8.971	82	8536	0.761	ng		0.00
11) 2-Methylnaphthalene-d10	12.217	152	14822	0.725	ng		0.00
14) 2,4,6-Tribromophenol	15.969	330	2186	0.687	ng		0.00
15) 2-Fluorobiphenyl	13.094	172	24413	0.756	ng		0.00
27) Fluoranthene-d10	19.252	212	27365	0.715	ng		0.00
31) Terphenyl-d14	19.852	244	20095	0.738	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	4191	0.793	ng		98
3) n-Nitrosodimethylamine	3.600	42	5472	0.779	ng	#	89
6) bis(2-Chloroethyl)ether	7.240	93	11096	0.766	ng		99
9) Naphthalene	10.669	128	30935	0.763	ng		99
10) Hexachlorobutadiene	10.979	225	5393	0.780	ng	#	99
12) 2-Methylnaphthalene	12.293	142	20065	0.758	ng		99
16) Acenaphthylene	14.195	152	26510	0.740	ng		99
17) Acenaphthene	14.537	154	19057	0.747	ng		100
18) Fluorene	15.522	166	23130	0.749	ng		99
20) 4,6-Dinitro-2-methylph...	15.597	198	1414	0.755	ng	#	77
21) 4-Bromophenyl-phenylether	16.416	248	7412	0.748	ng		98
22) Hexachlorobenzene	16.528	284	9138	0.761	ng		99
23) Atrazine	16.677	200	5405	0.716	ng	#	87
24) Pentachlorophenol	16.875	266	2945	0.714	ng		97
25) Phenanthrene	17.260	178	37218	0.744	ng		99
26) Anthracene	17.347	178	32138	0.740	ng		100
28) Fluoranthene	19.285	202	41292	0.749	ng		100
30) Pyrene	19.643	202	40377	0.748	ng		100
32) Benzo(a)anthracene	21.384	228	35130	0.735	ng		100
33) Chrysene	21.438	228	39541	0.765	ng		100
34) Bis(2-ethylhexyl)phtha...	21.322	149	13026	0.689	ng		99
36) Indeno(1,2,3-cd)pyrene	26.107	276	42560	0.747	ng		100
37) Benzo(b)fluoranthene	23.025	252	39646	0.738	ng		96
38) Benzo(k)fluoranthene	23.075	252	40574	0.750	ng		96
39) Benzo(a)pyrene	23.627	252	31265	0.735	ng		94
40) Dibenzo(a,h)anthracene	26.121	278	33235	0.747	ng		98
41) Benzo(g,h,i)perylene	26.835	276	34817	0.745	ng		98

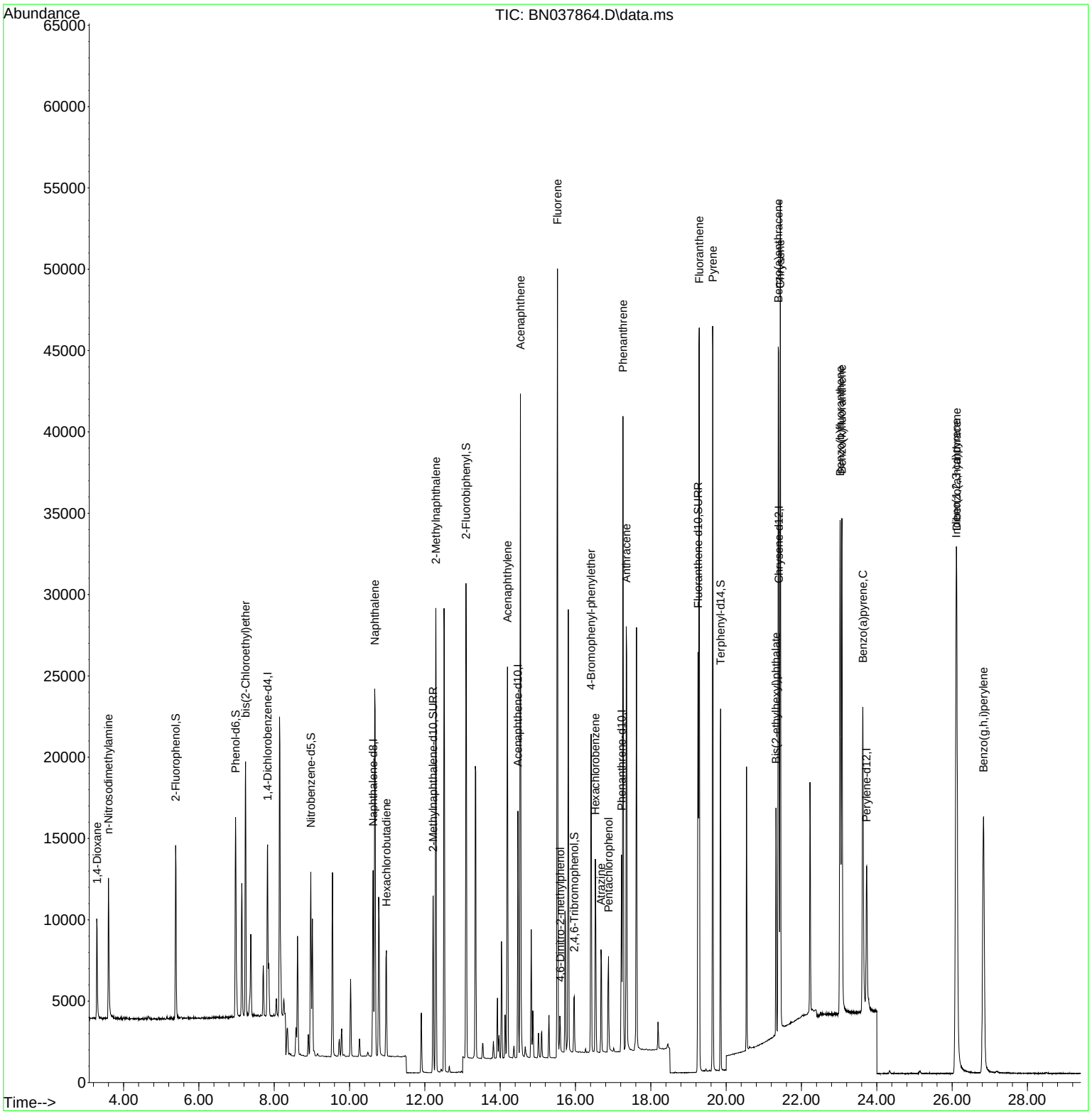
(#) = qualifier out of range (m) = manual integration (+) = signals summed

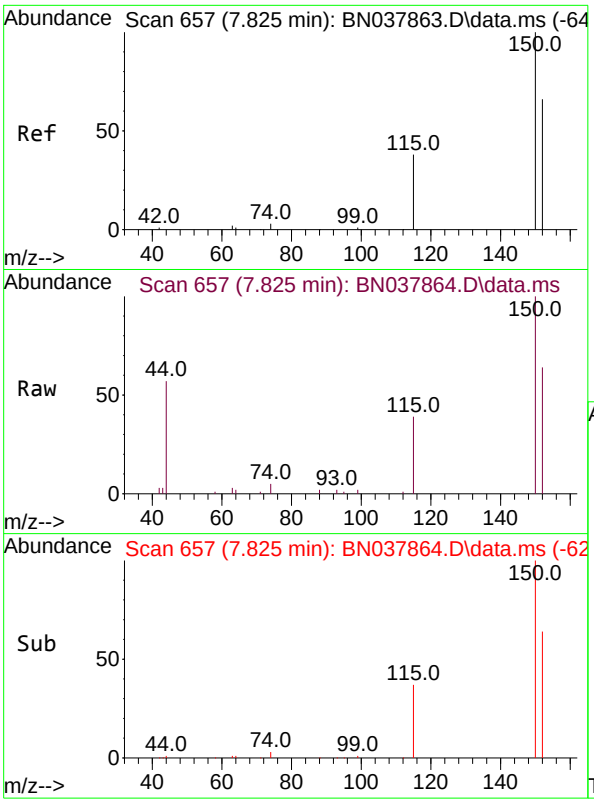
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037864.D
Acq On : 23 Sep 2025 14:02
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Sep 23 16:22:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



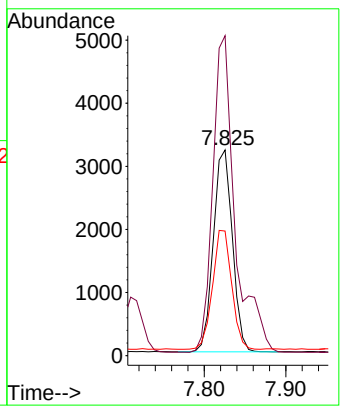


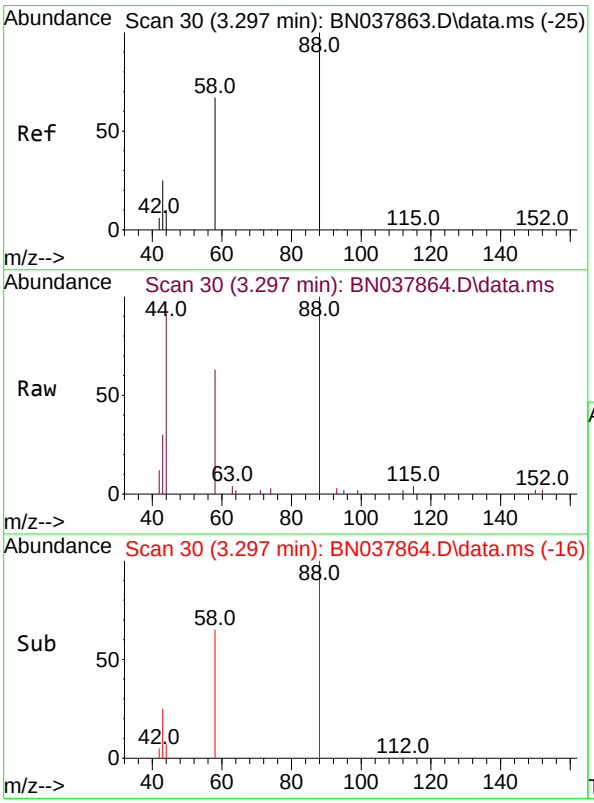
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 5204

Ion	Ratio	Lower	Upper
152	100		
150	155.6	121.0	181.4
115	60.6	47.4	71.0

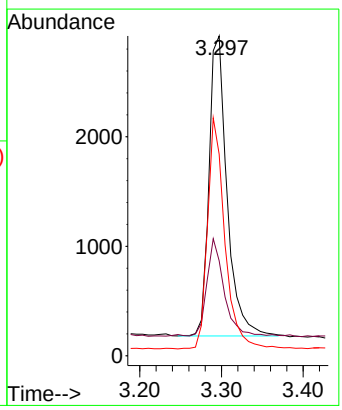


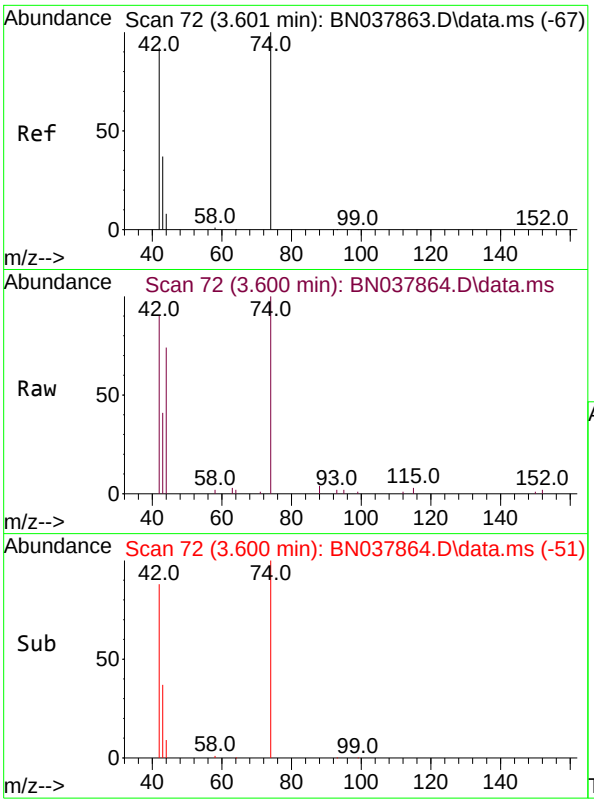


#2
1,4-Dioxane
Concen: 0.793 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion: 88 Resp: 4191

Ion	Ratio	Lower	Upper
88	100		
43	30.7	26.6	39.8
58	74.2	58.9	88.3



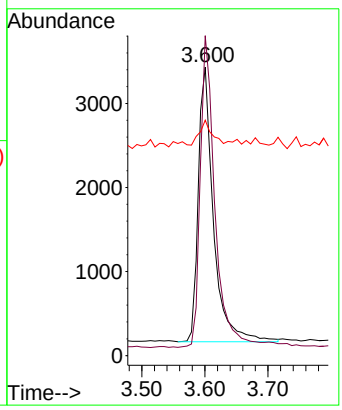


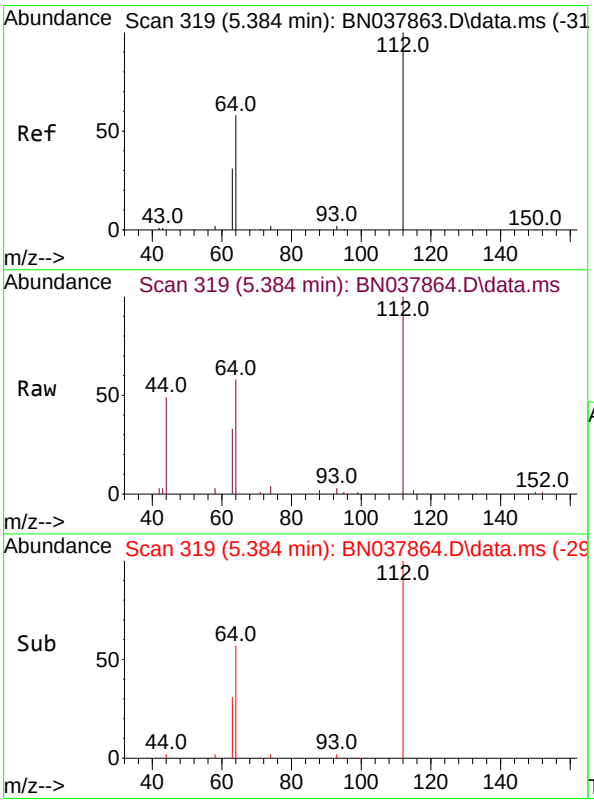
#3
n-Nitrosodimethylamine
Concen: 0.779 ng
RT: 3.600 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 5472

Ion	Ratio	Lower	Upper
42	100		
74	111.5	93.4	140.0
44	7.3	22.2	33.4#

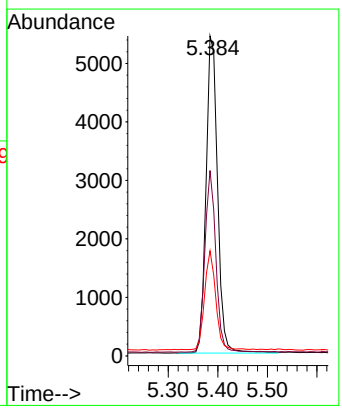


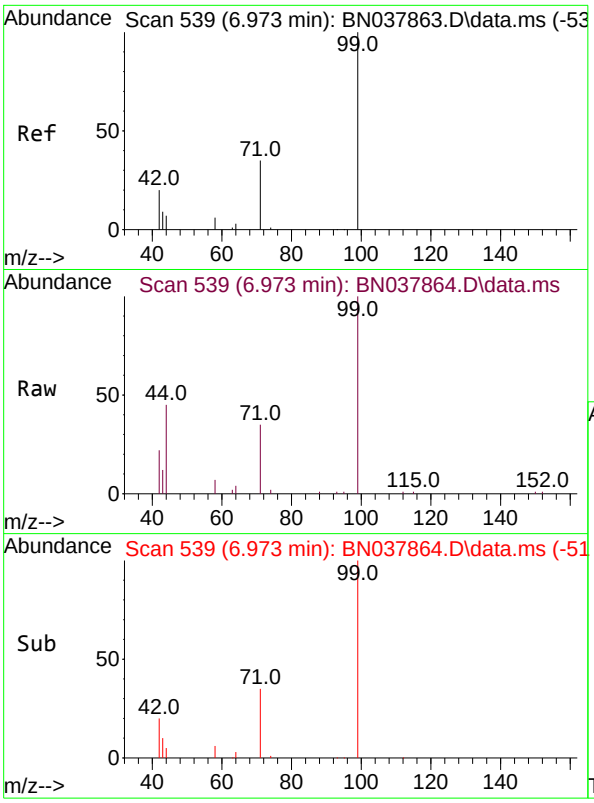


#4
2-Fluorophenol
Concen: 0.736 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:112 Resp: 8737

Ion	Ratio	Lower	Upper
112	100		
64	54.9	44.6	66.8
63	29.8	24.9	37.3



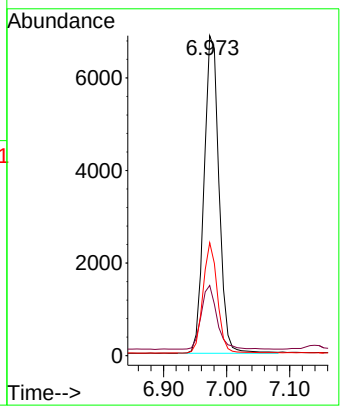


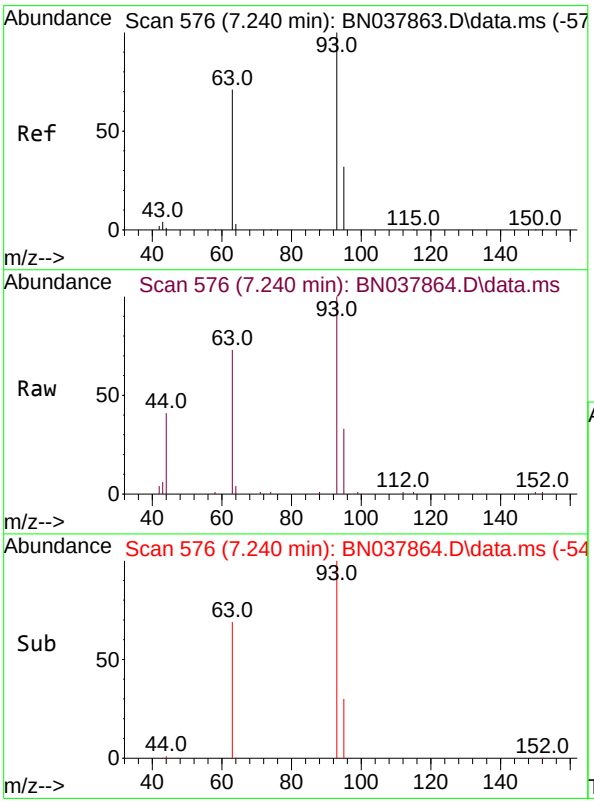
#5
Phenol-d6
Concen: 0.725 ng
RT: 6.973 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 11319

Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.2	25.8
71	33.5	27.3	40.9

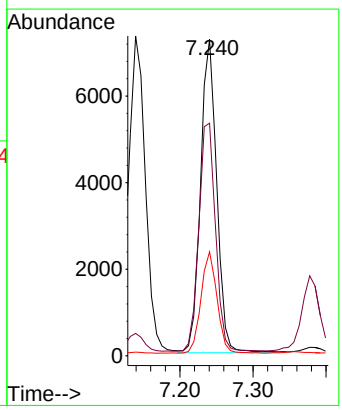


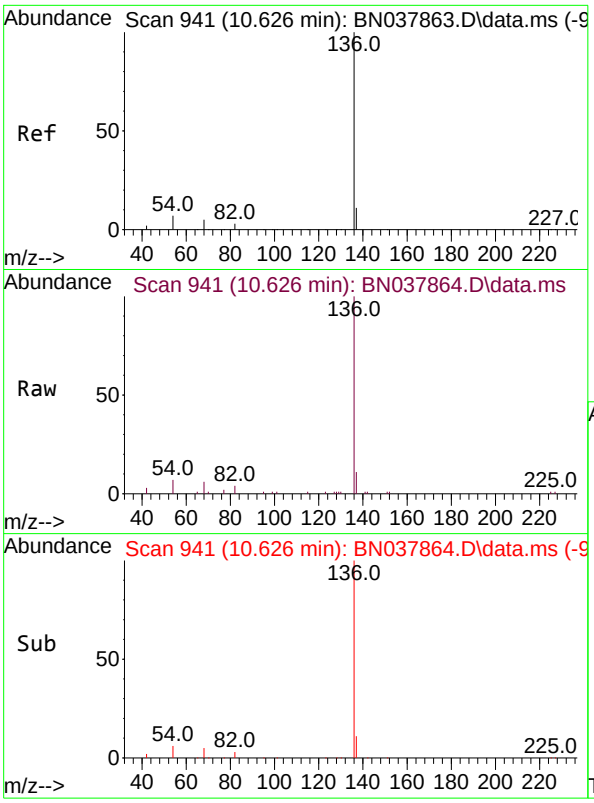


#6
bis(2-Chloroethyl)ether
Concen: 0.766 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion: 93 Resp: 11096

Ion	Ratio	Lower	Upper
93	100		
63	75.5	60.1	90.1
95	32.2	25.4	38.2



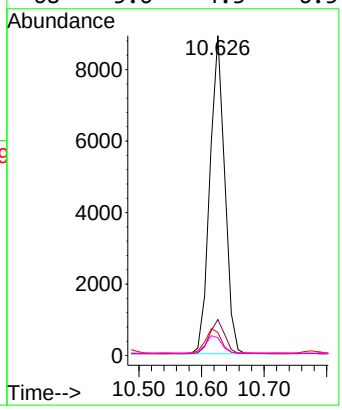


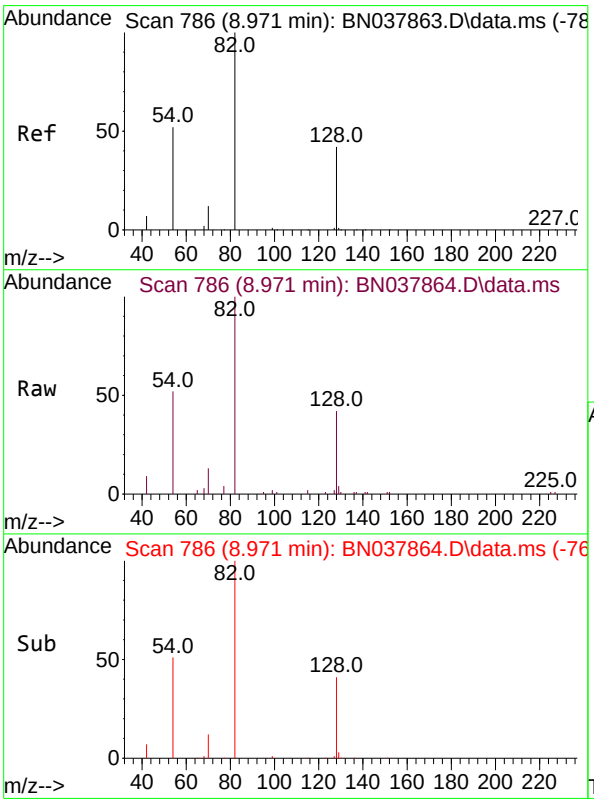
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 14715

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.2	5.8	8.8
68	5.6	4.3	6.5

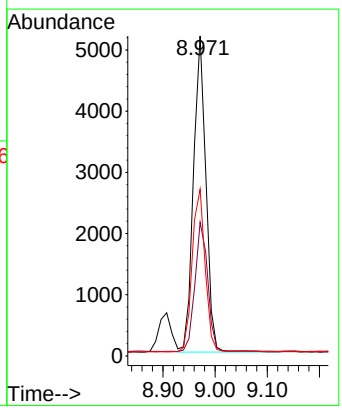


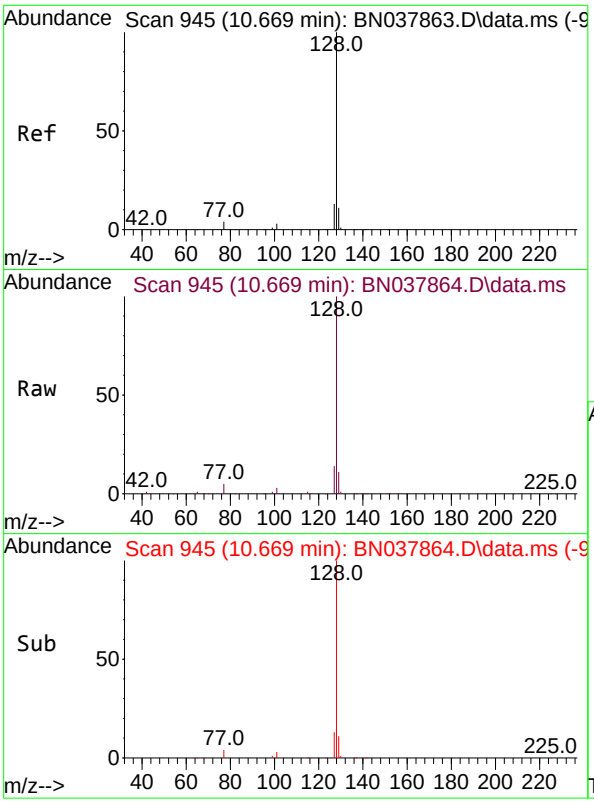


#8
Nitrobenzene-d5
Concen: 0.761 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion: 82 Resp: 8536

Ion	Ratio	Lower	Upper
82	100		
128	41.8	34.8	52.2
54	52.1	42.2	63.2



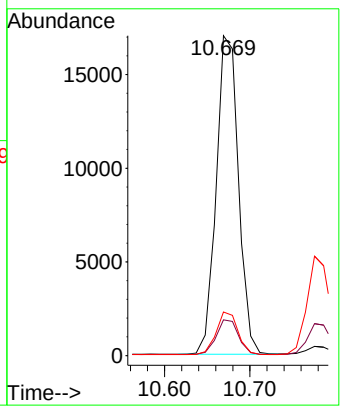


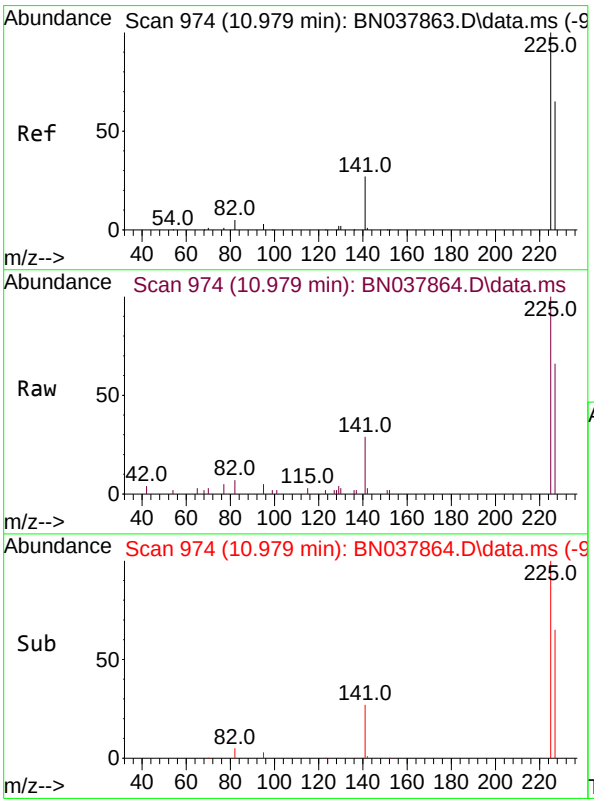
#9
Naphthalene
Concen: 0.763 ng
RT: 10.669 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 30935

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.2	13.8
127	13.6	11.0	16.6

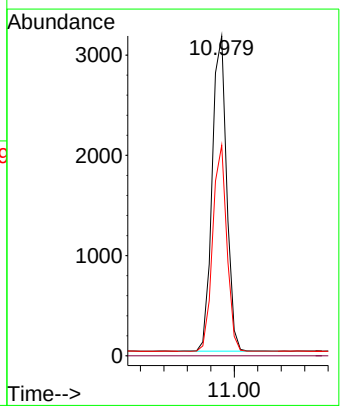


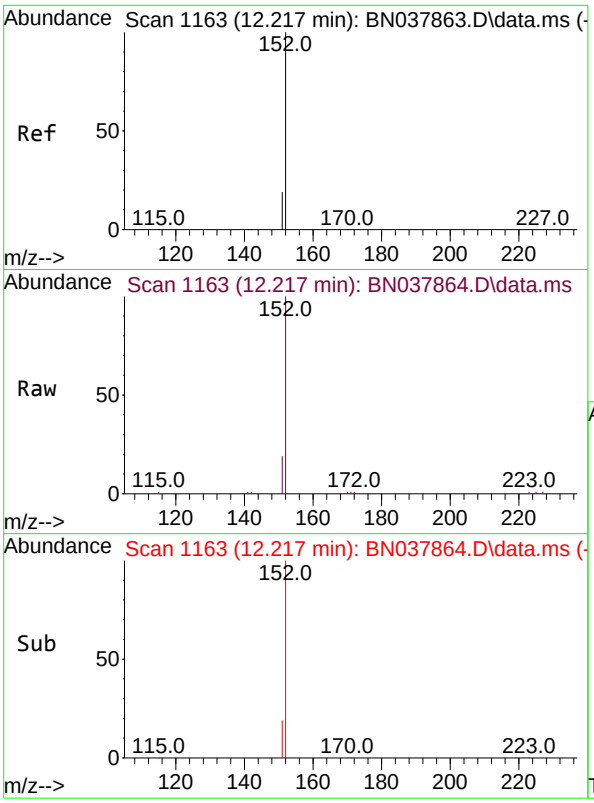


#10
Hexachlorobutadiene
Concen: 0.780 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:225 Resp: 5393

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.4	77.2



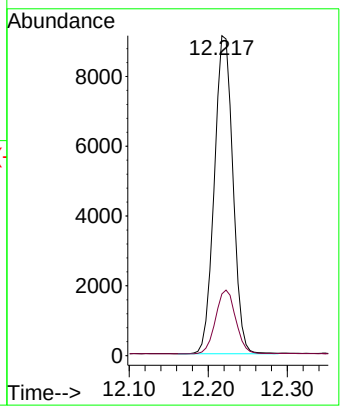


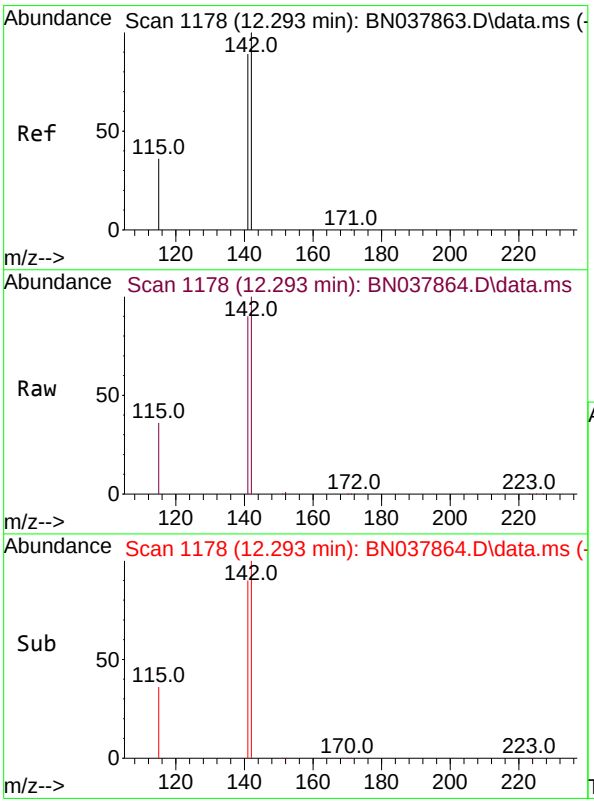
#11
2-Methylnaphthalene-d10
Concen: 0.725 ng
RT: 12.217 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 14822

Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.4	26.2

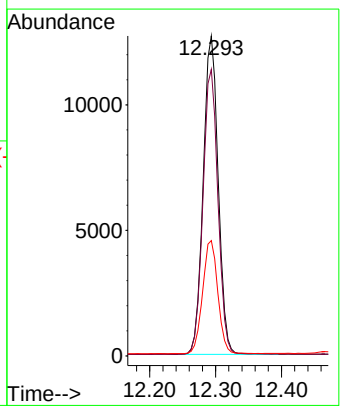


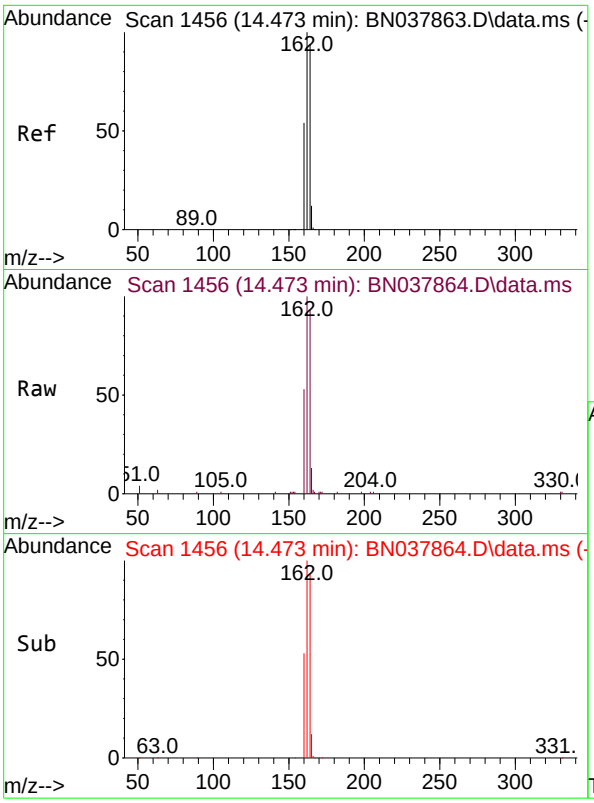


#12
2-Methylnaphthalene
Concen: 0.758 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:142 Resp: 20065

Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.2	106.8
115	36.0	29.7	44.5



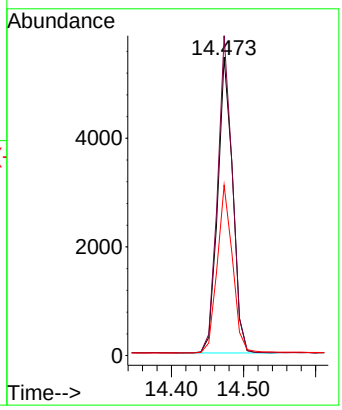


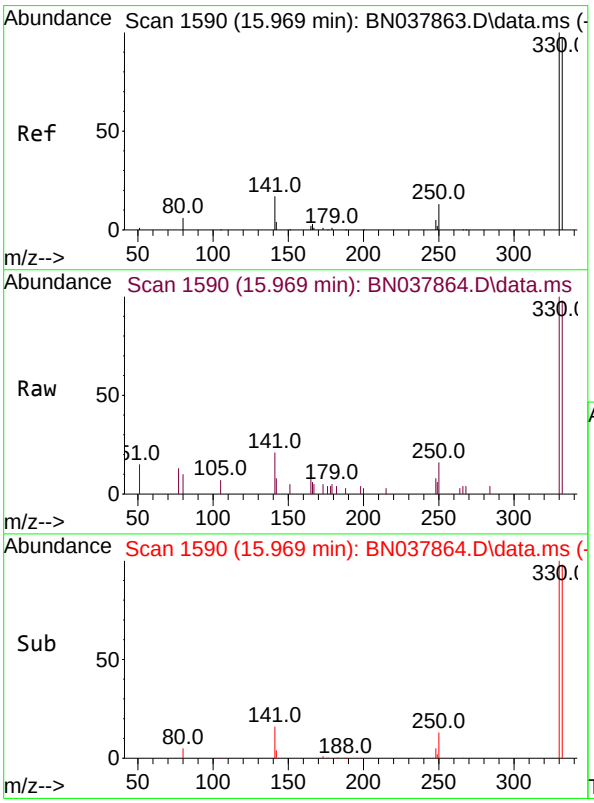
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 7889

Ion	Ratio	Lower	Upper
164	100		
162	107.2	84.8	127.2
160	57.1	46.1	69.1

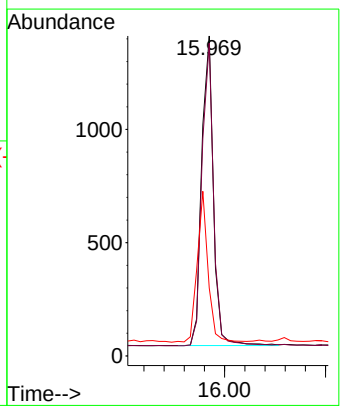


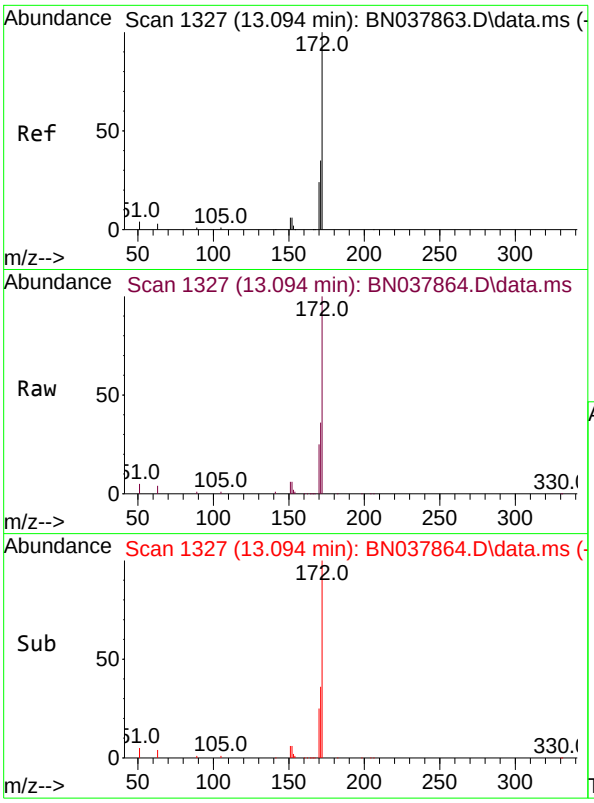


#14
2,4,6-Tribromophenol
Concen: 0.687 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:330 Resp: 2186

Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.2	115.8
141	45.1	37.2	55.8



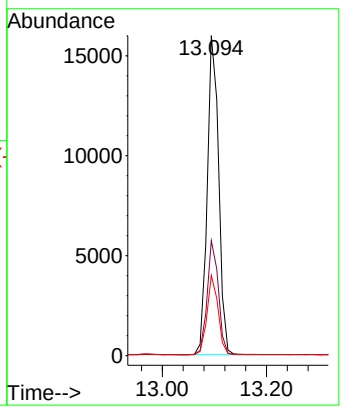


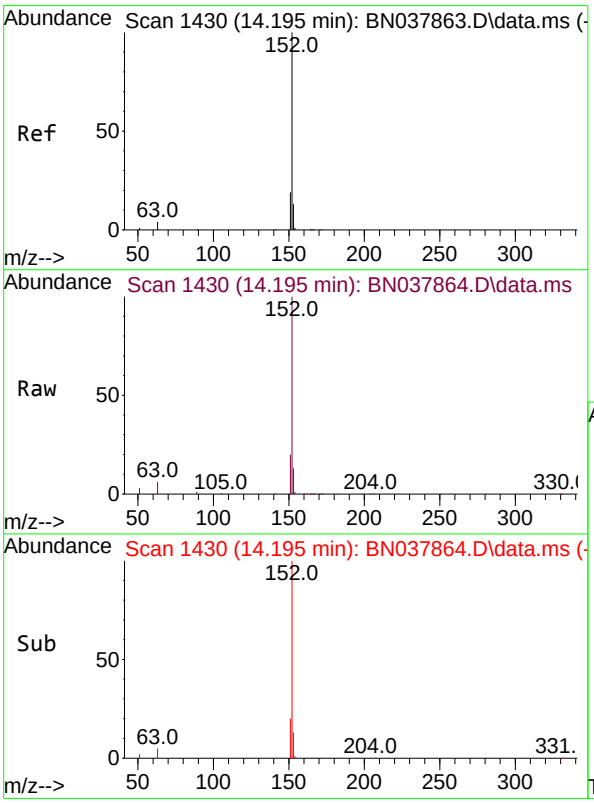
#15
2-Fluorobiphenyl
Concen: 0.756 ng
RT: 13.094 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 24413

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	25.1	19.7	29.5

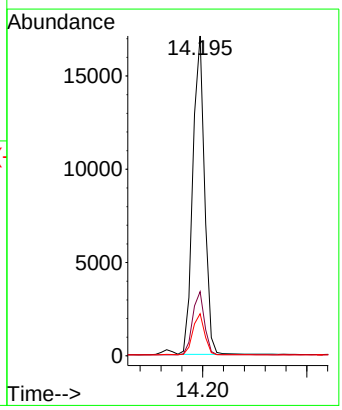


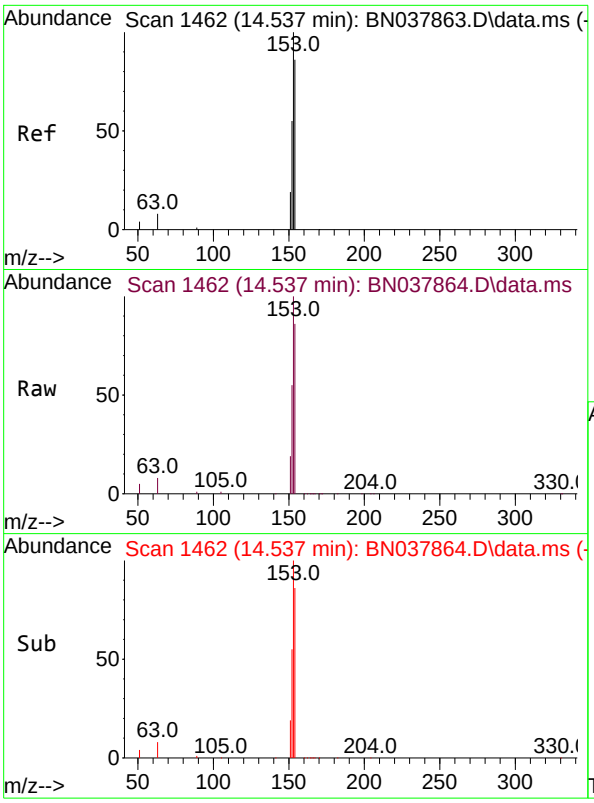


#16
Acenaphthylene
Concen: 0.740 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:152 Resp: 26510

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	12.9	10.5	15.7



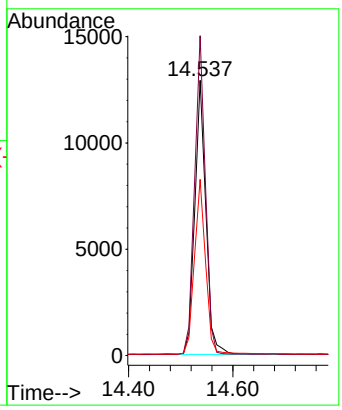


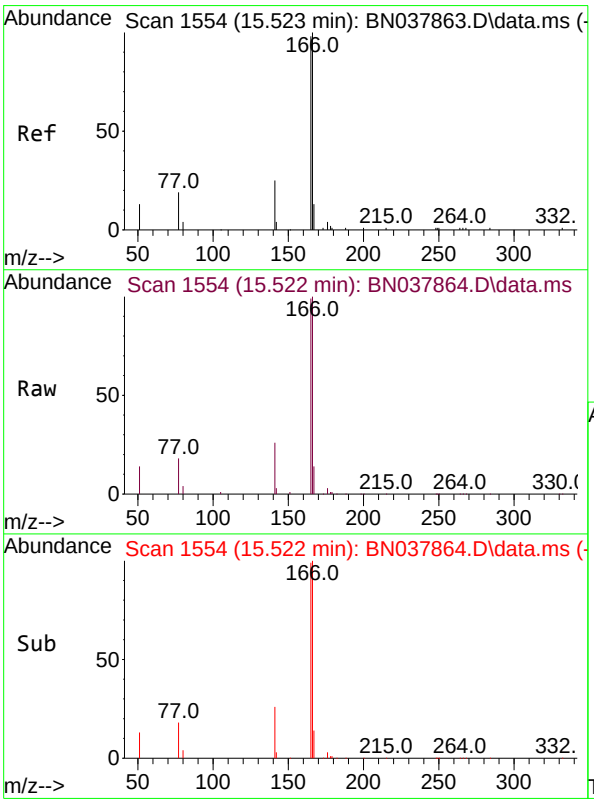
#17
Acenaphthene
Concen: 0.747 ng
RT: 14.537 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 19057

Ion	Ratio	Lower	Upper
154	100		
153	112.9	90.5	135.7
152	64.2	51.8	77.8

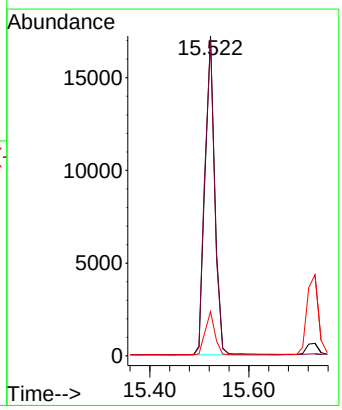


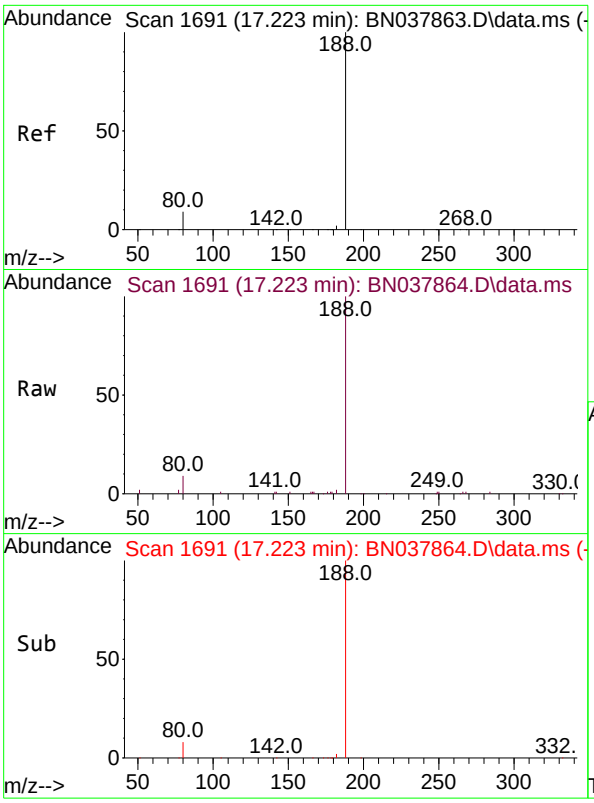


#18
Fluorene
Concen: 0.749 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:166 Resp: 23130

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.0	118.4
167	13.4	10.6	16.0



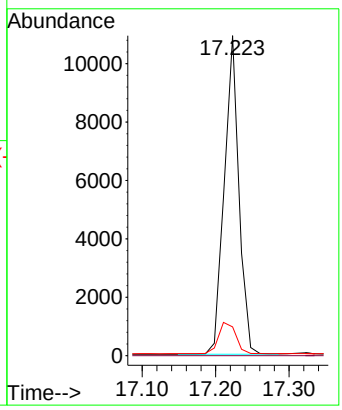


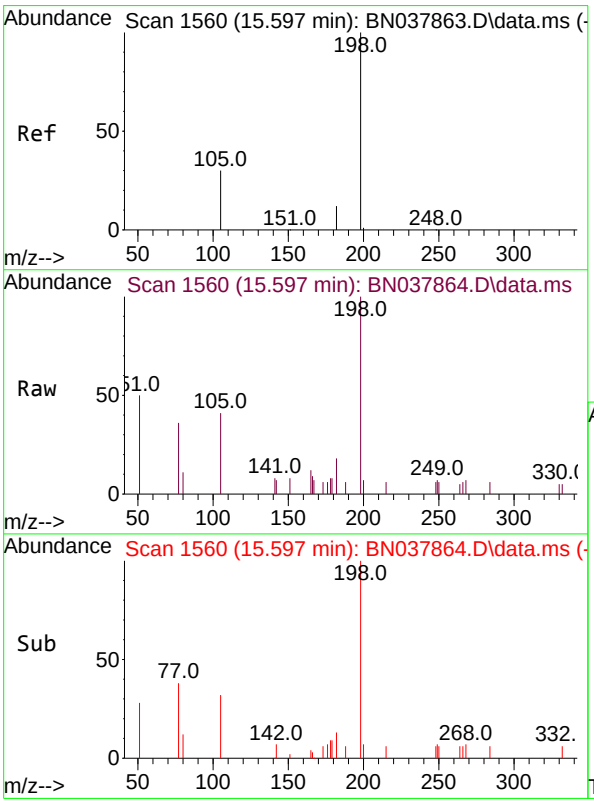
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 15207

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.0	7.6	11.4

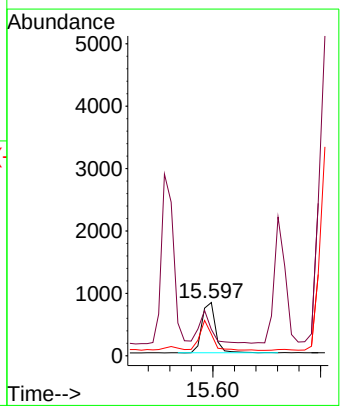


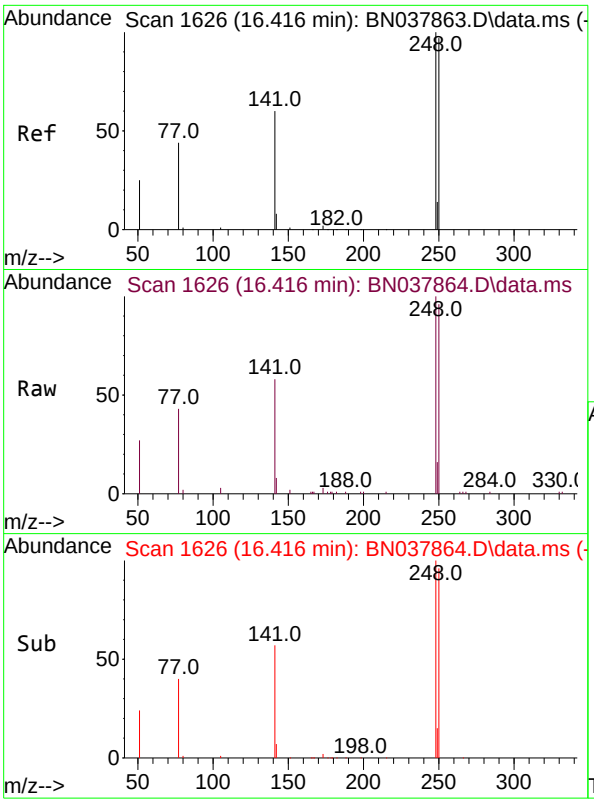


#20
4,6-Dinitro-2-methylphenol
Concen: 0.755 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:198 Resp: 1414

Ion	Ratio	Lower	Upper
198	100		
51	49.5	59.1	88.7#
105	41.0	41.3	61.9#



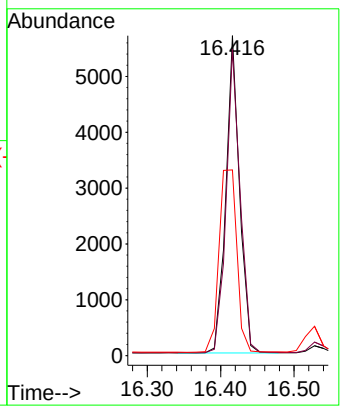


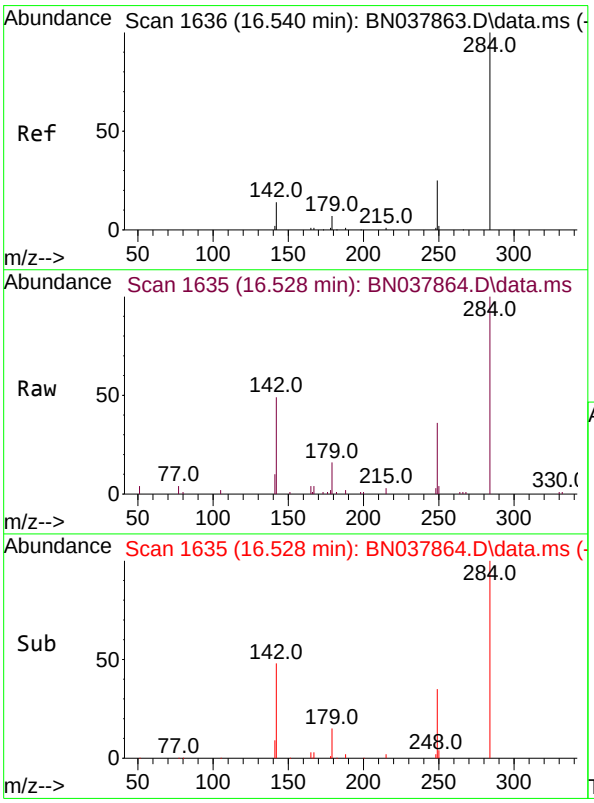
#21
4-Bromophenyl-phenylether
Concen: 0.748 ng
RT: 16.416 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 7412

Ion	Ratio	Lower	Upper
248	100		
250	95.7	77.6	116.4
141	58.0	48.8	73.2

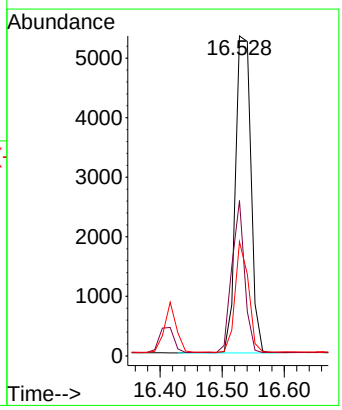


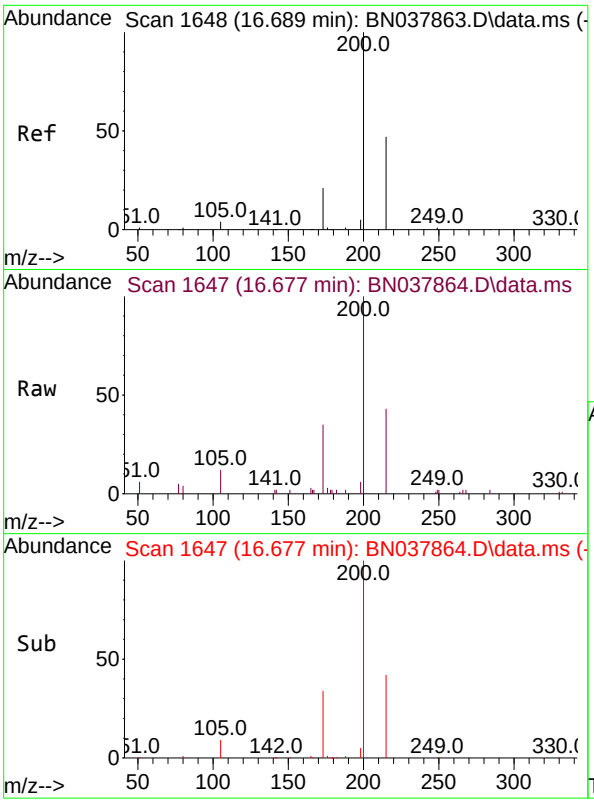


#22
Hexachlorobenzene
Concen: 0.761 ng
RT: 16.528 min Scan# 1635
Delta R.T. -0.012 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:284 Resp: 9138

Ion	Ratio	Lower	Upper
284	100		
142	39.7	30.9	46.3
249	30.2	23.9	35.9



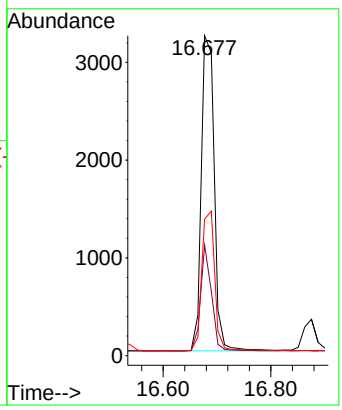


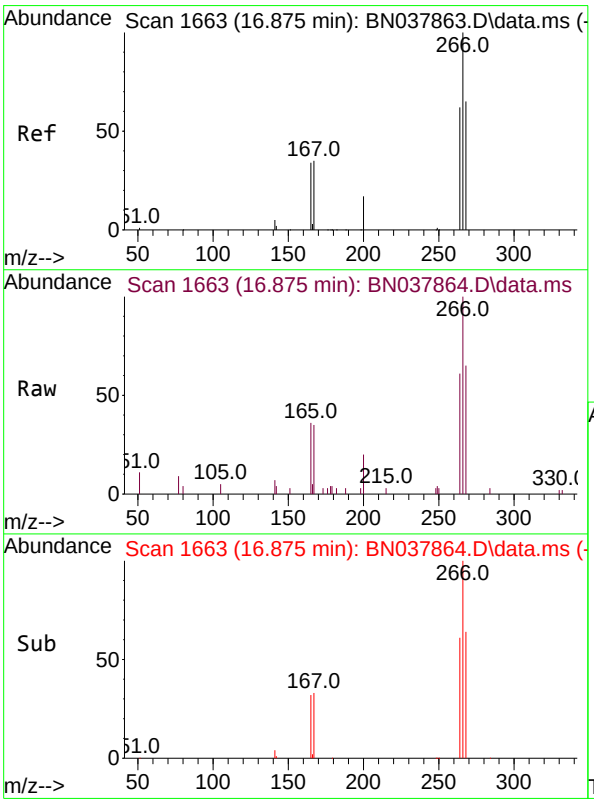
#23
Atrazine
Concen: 0.716 ng
RT: 16.677 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 5405

Ion	Ratio	Lower	Upper
200	100		
173	34.5	18.3	27.5#
215	42.7	38.6	58.0

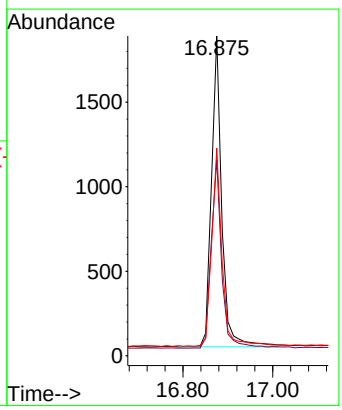


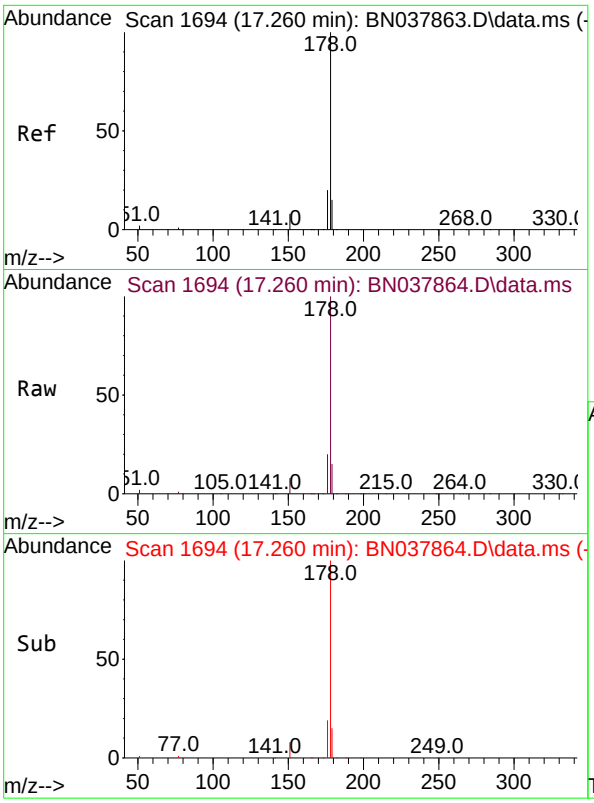


#24
Pentachlorophenol
Concen: 0.714 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:266 Resp: 2945

Ion	Ratio	Lower	Upper
266	100		
264	62.0	50.9	76.3
268	64.2	54.3	81.5



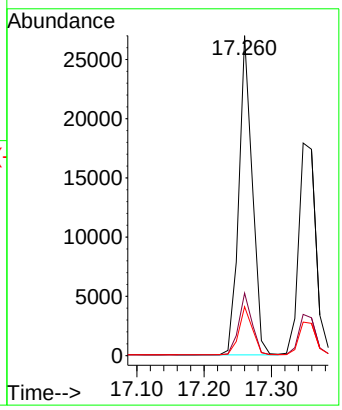


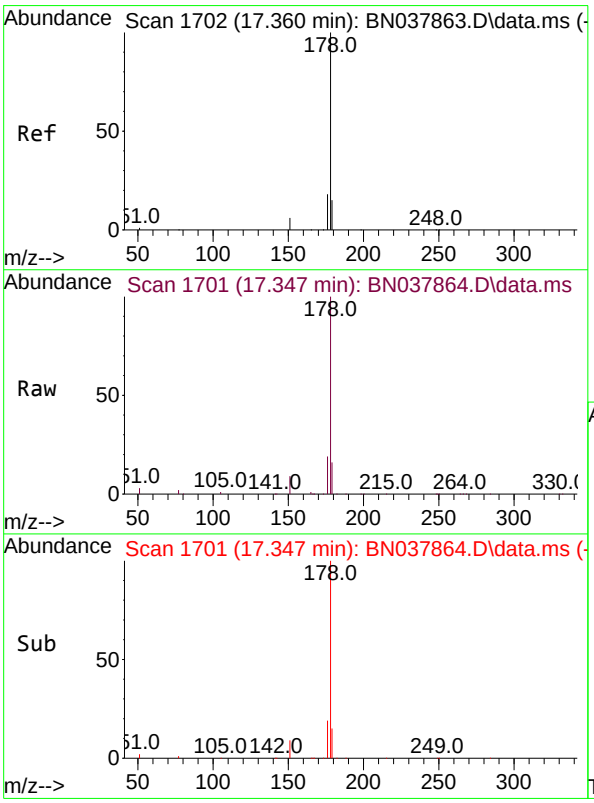
#25
Phenanthrene
Concen: 0.744 ng
RT: 17.260 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 37218

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.7	23.5
179	15.1	12.3	18.5

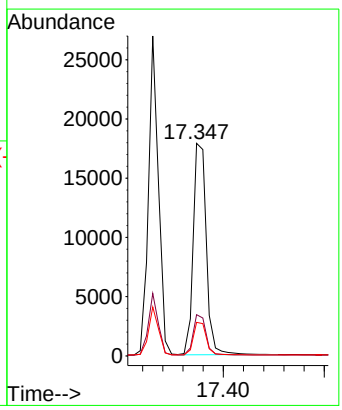


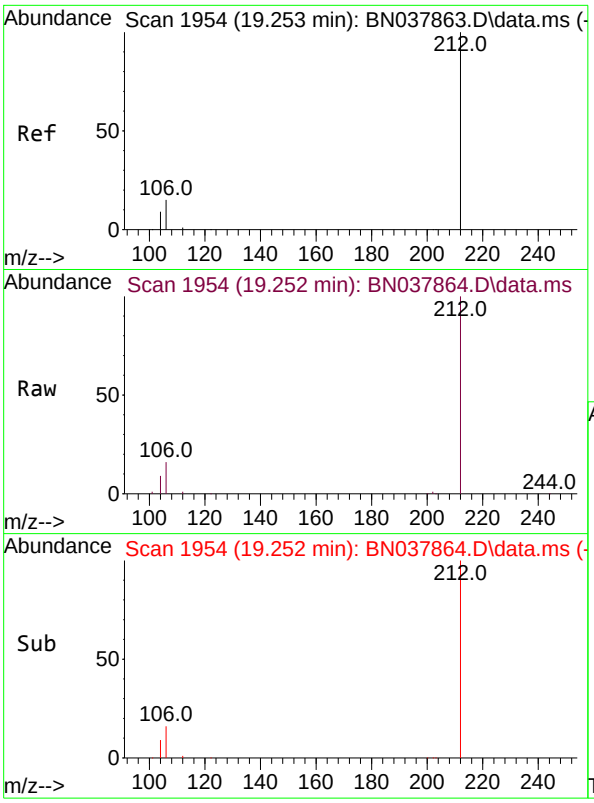


#26
Anthracene
Concen: 0.740 ng
RT: 17.347 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:178 Resp: 32138

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.4
179	15.3	12.3	18.5



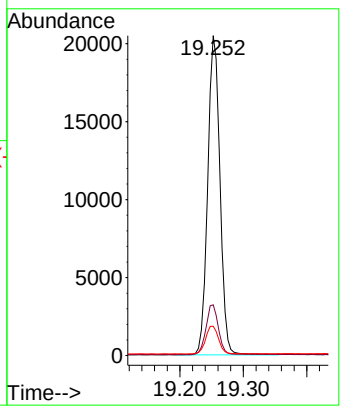


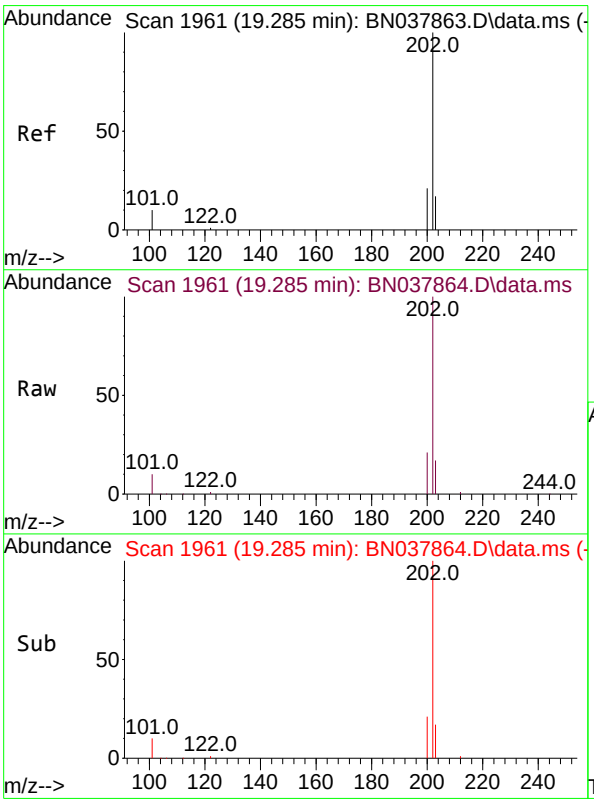
#27
Fluoranthene-d10
Concen: 0.715 ng
RT: 19.252 min Scan# 19
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 27365

Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.6	19.0
104	9.1	7.4	11.0

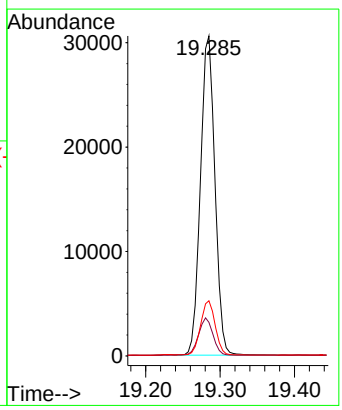


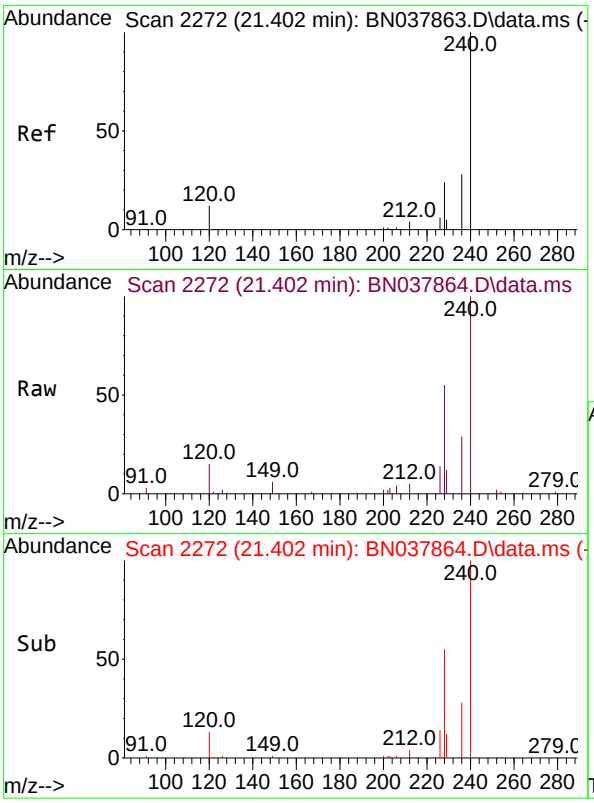


#28
Fluoranthene
Concen: 0.749 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:202 Resp: 41292

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.3	13.9
203	17.1	13.6	20.4



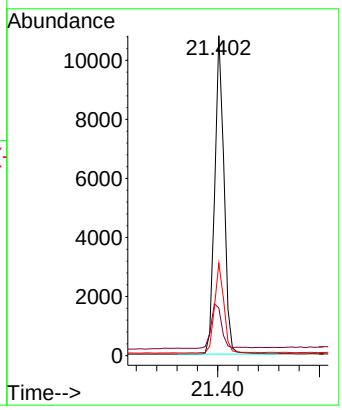


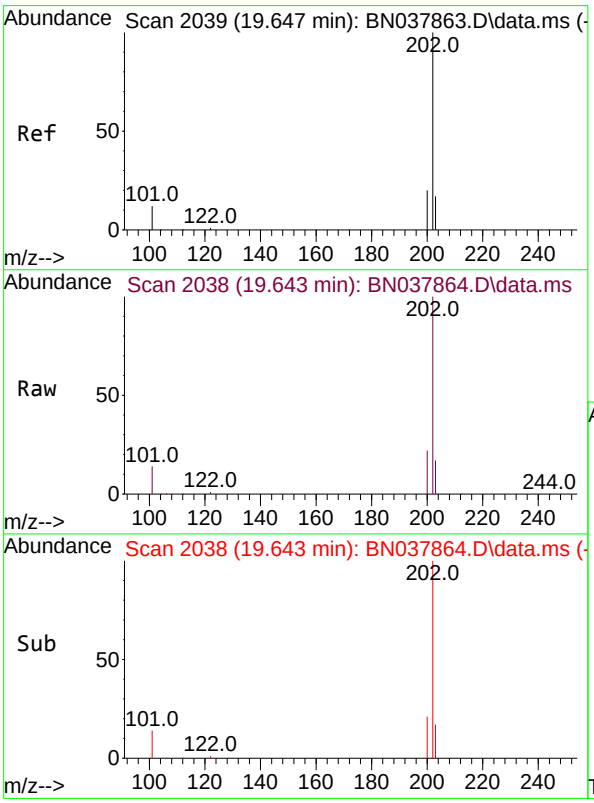
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 13674

Ion	Ratio	Lower	Upper
240	100		
120	14.9	11.4	17.2
236	28.9	23.0	34.6

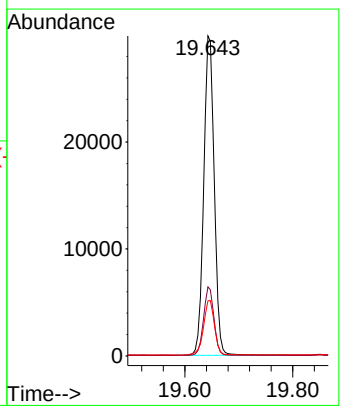


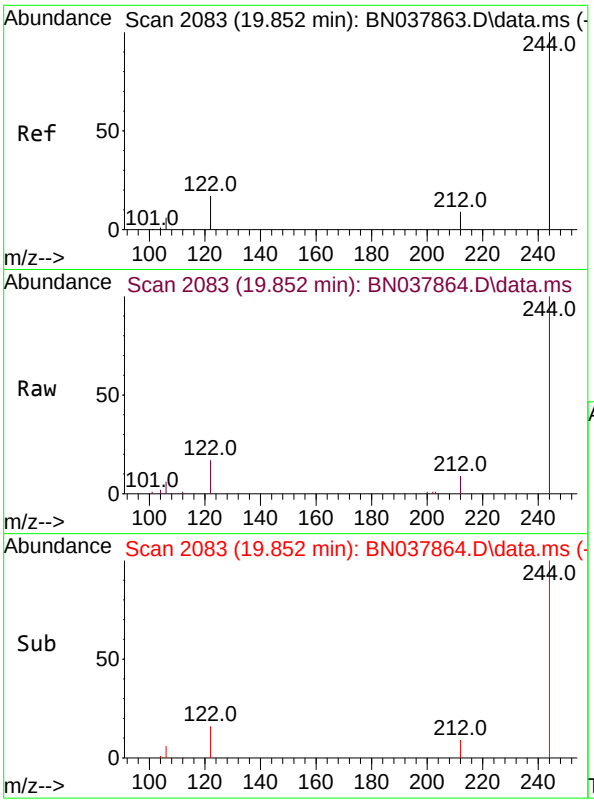


#30
Pyrene
Concen: 0.748 ng
RT: 19.643 min Scan# 2038
Delta R.T. -0.005 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:202 Resp: 40377

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.7	25.1
203	17.7	14.2	21.4



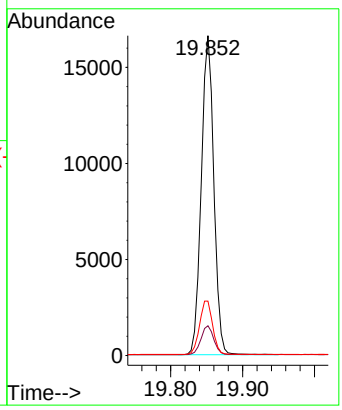


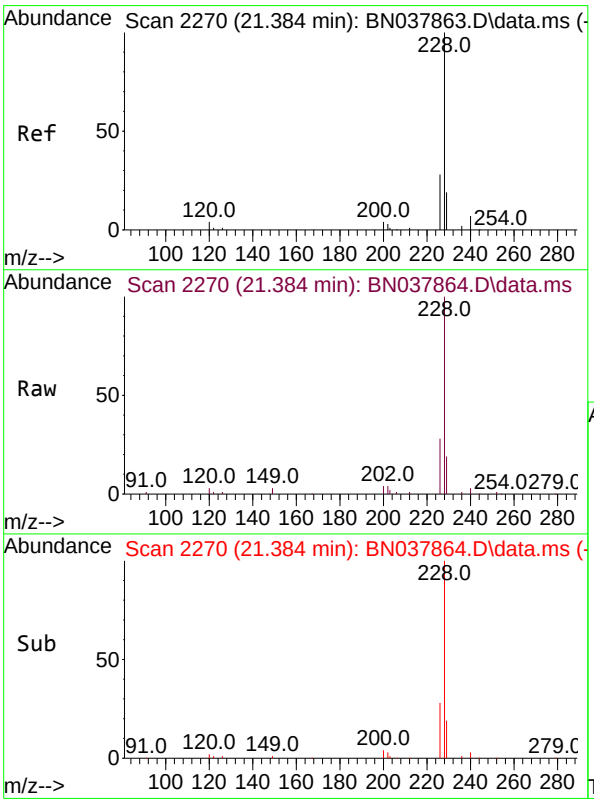
#31
Terphenyl-d14
Concen: 0.738 ng
RT: 19.852 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 20095

Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.6	11.4
122	17.0	13.9	20.9

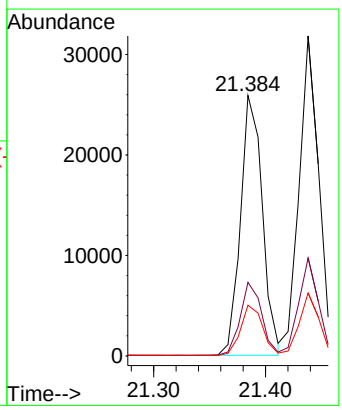


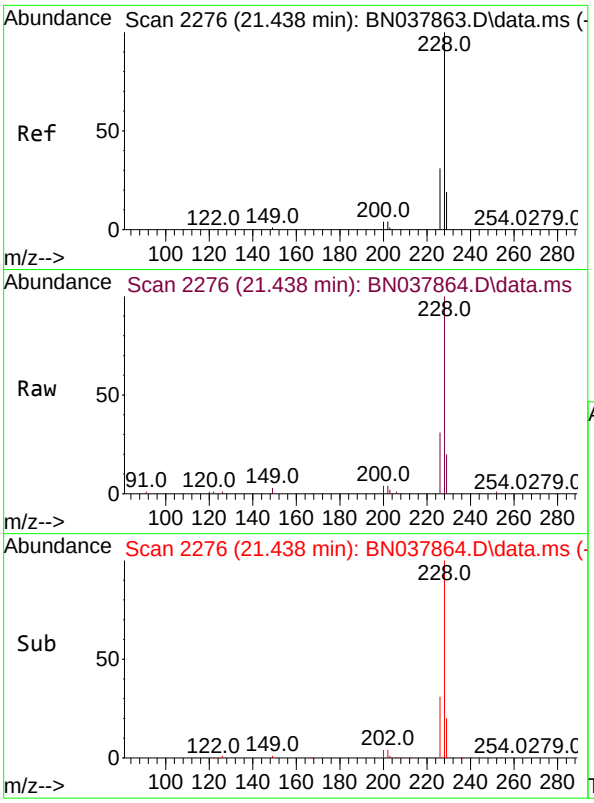


#32
Benzo(a)anthracene
Concen: 0.735 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:228 Resp: 35130

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.6	33.8
229	19.5	15.6	23.4



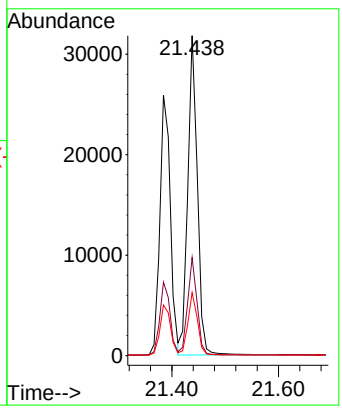


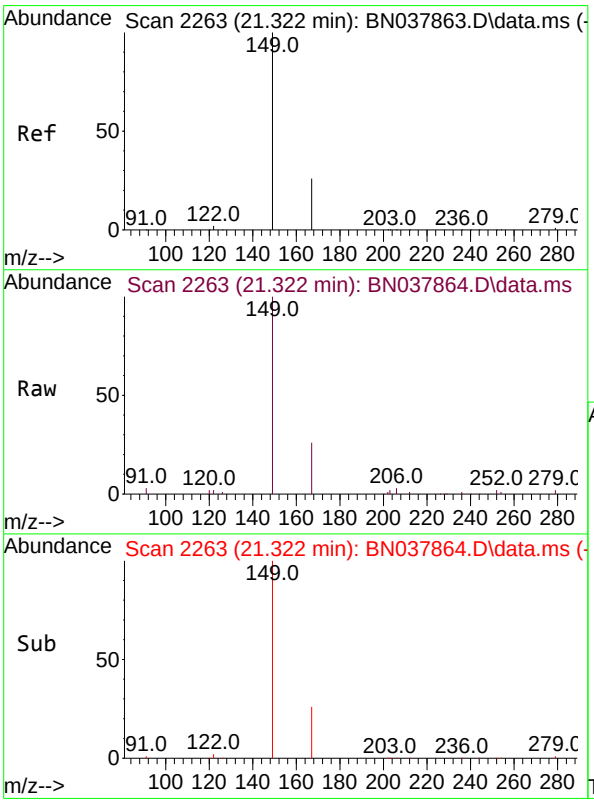
#33
Chrysene
Concen: 0.765 ng
RT: 21.438 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 39541

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.7	15.6	23.4

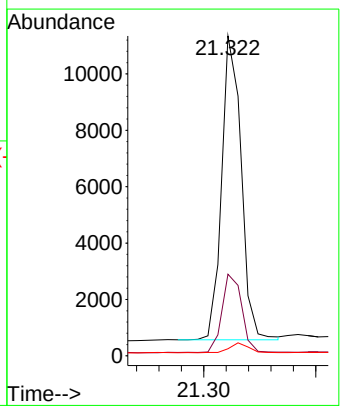


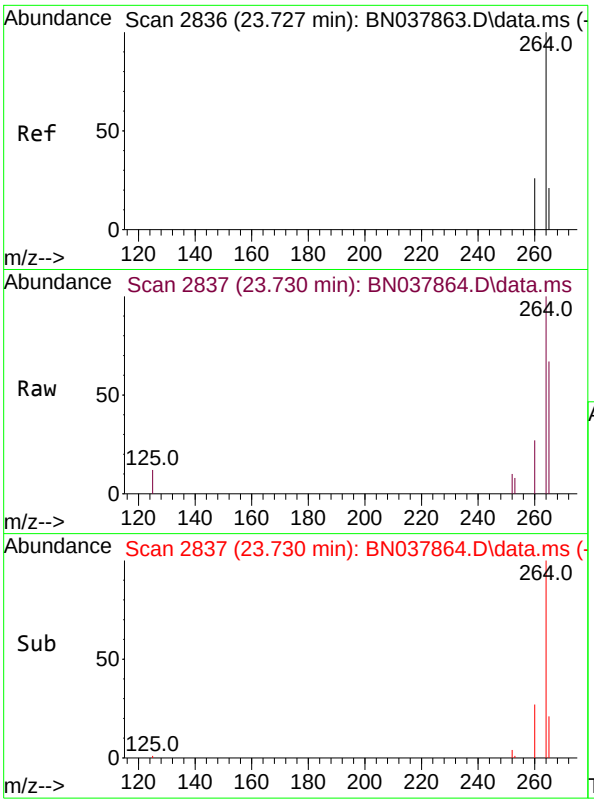


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.689 ng
RT: 21.322 min Scan# 2263
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:149 Resp: 13026

Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.4	30.6
279	3.2	2.4	3.6



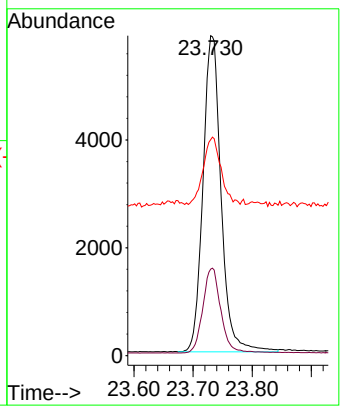


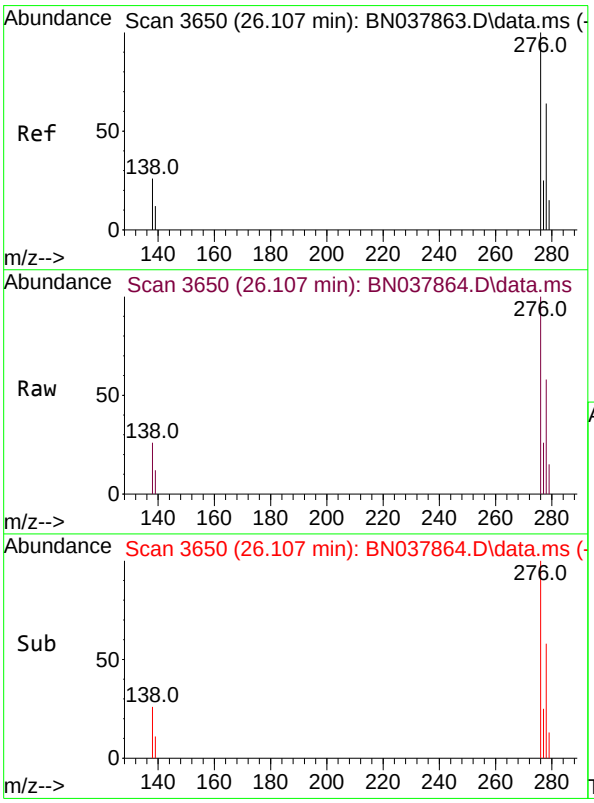
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.730 min Scan# 28
Delta R.T. 0.003 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 12464

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.5	32.3
265	67.5	53.8	80.6

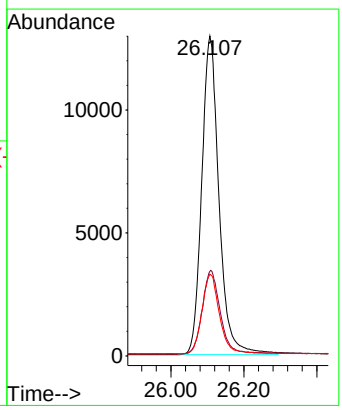


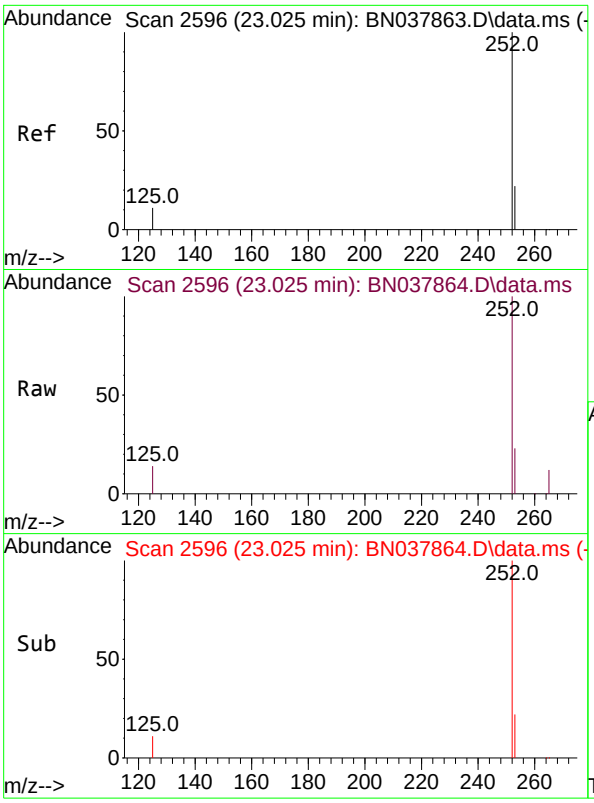


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.747 ng
RT: 26.107 min Scan# 3650
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:276 Resp: 42560

Ion	Ratio	Lower	Upper
276	100		
138	26.8	21.4	32.0
277	25.3	20.3	30.5



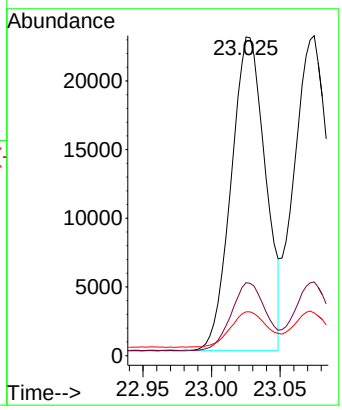


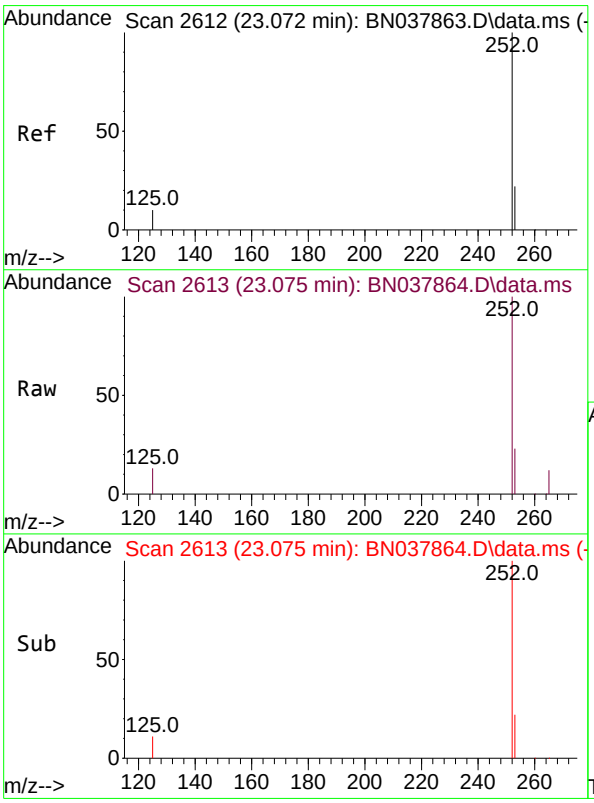
#37
Benzo(b)fluoranthene
Concen: 0.738 ng
RT: 23.025 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 39646

Ion	Ratio	Lower	Upper
252	100		
253	22.9	19.4	29.0
125	13.7	13.0	19.4

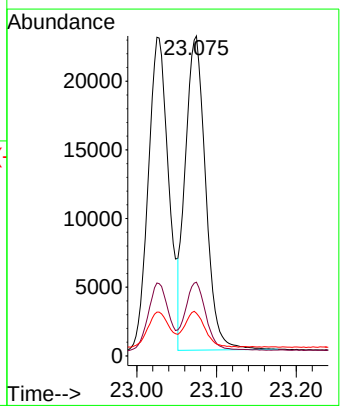


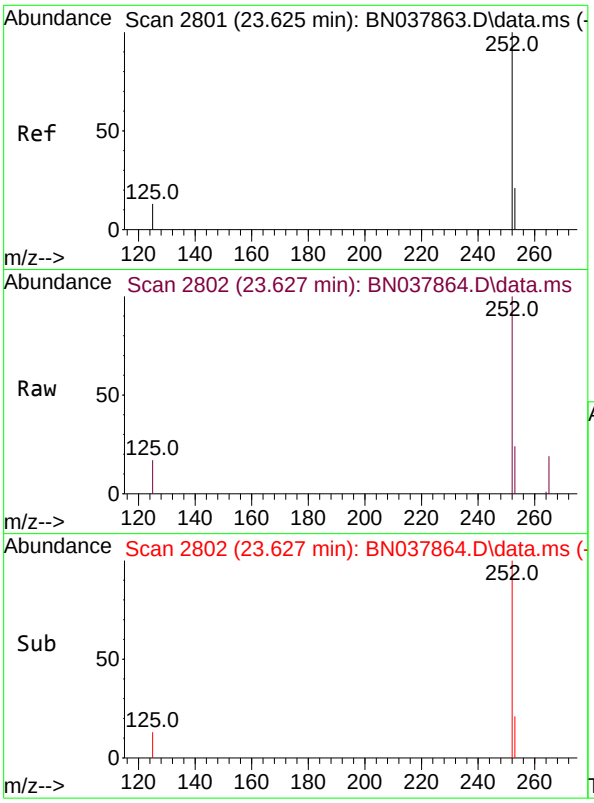


#38
Benzo(k)fluoranthene
Concen: 0.750 ng
RT: 23.075 min Scan# 2613
Delta R.T. 0.003 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:252 Resp: 40574

Ion	Ratio	Lower	Upper
252	100		
253	23.0	19.5	29.3
125	13.3	13.0	19.4



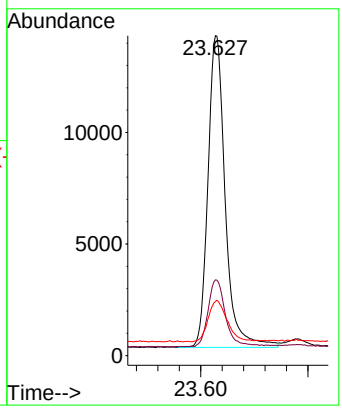


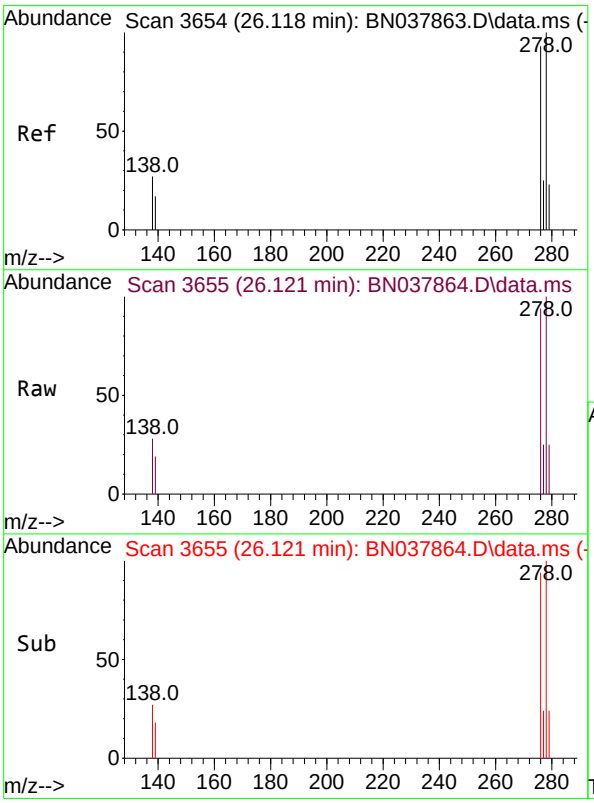
#39
Benzo(a)pyrene
Concen: 0.735 ng
RT: 23.627 min Scan# 28
Delta R.T. 0.003 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 31265

Ion	Ratio	Lower	Upper
252	100		
253	23.7	20.6	30.8
125	16.9	16.7	25.1

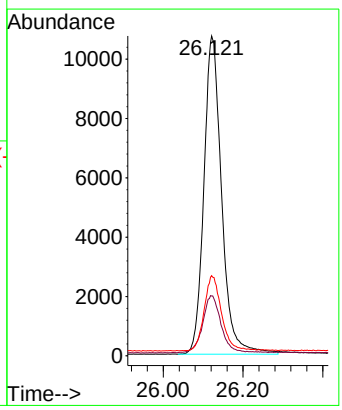


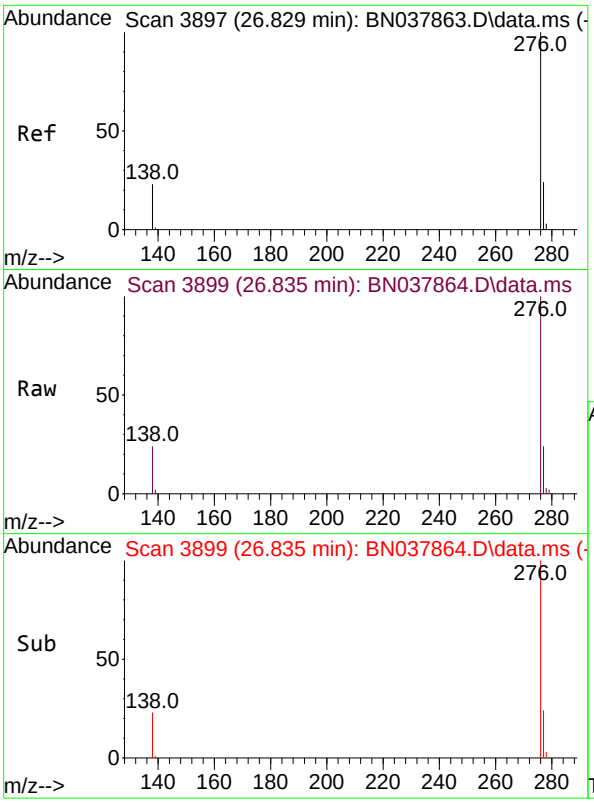


#40
Dibenzo(a,h)anthracene
Concen: 0.747 ng
RT: 26.121 min Scan# 3655
Delta R.T. 0.003 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:278 Resp: 33235

Ion	Ratio	Lower	Upper
278	100		
139	18.7	15.4	23.2
279	25.1	20.8	31.2



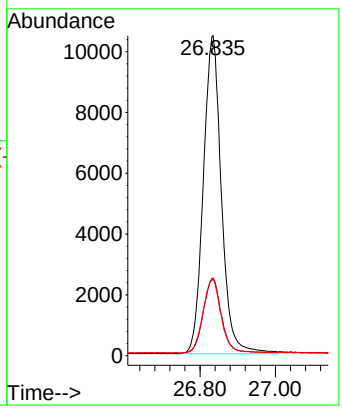


#41
Benzo(g,h,i)perylene
Concen: 0.745 ng
RT: 26.835 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 34817

Ion	Ratio	Lower	Upper
276	100		
277	24.2	20.2	30.4
138	23.9	19.8	29.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037865.D
Acq On : 23 Sep 2025 14:38
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Sep 23 16:22:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.825	152	5367	0.400	ng		0.00
7) Naphthalene-d8	10.626	136	15494	0.400	ng		0.00
13) Acenaphthene-d10	14.473	164	8404	0.400	ng		0.00
19) Phenanthrene-d10	17.223	188	15875	0.400	ng		0.00
29) Chrysene-d12	21.402	240	14963	0.400	ng		0.00
35) Perylene-d12	23.735	264	12917	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.391	112	19493	1.592	ng		0.00
5) Phenol-d6	6.973	99	26005	1.616	ng		0.00
8) Nitrobenzene-d5	8.971	82	19230	1.627	ng		0.00
11) 2-Methylnaphthalene-d10	12.217	152	34256	1.592	ng		0.00
14) 2,4,6-Tribromophenol	15.969	330	5471	1.613	ng		0.00
15) 2-Fluorobiphenyl	13.094	172	55598	1.616	ng		0.00
27) Fluoranthene-d10	19.252	212	63771	1.597	ng		0.00
31) Terphenyl-d14	19.852	244	47765	1.603	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	9123	1.674	ng		98
3) n-Nitrosodimethylamine	3.600	42	12048	1.662	ng	#	89
6) bis(2-Chloroethyl)ether	7.240	93	24687	1.653	ng		100
9) Naphthalene	10.679	128	69620	1.631	ng		98
10) Hexachlorobutadiene	10.978	225	11899	1.634	ng	#	100
12) 2-Methylnaphthalene	12.293	142	46704	1.675	ng		99
16) Acenaphthylene	14.195	152	64093	1.680	ng		100
17) Acenaphthene	14.537	154	45411	1.670	ng		97
18) Fluorene	15.522	166	55922	1.701	ng		100
20) 4,6-Dinitro-2-methylph...	15.597	198	3669	1.602	ng	#	64
21) 4-Bromophenyl-phenylether	16.416	248	17278	1.670	ng		98
22) Hexachlorobenzene	16.540	284	20548	1.638	ng		99
23) Atrazine	16.689	200	13043	1.656	ng		97
24) Pentachlorophenol	16.875	266	7393	1.718	ng		98
25) Phenanthrene	17.260	178	86207	1.650	ng		99
26) Anthracene	17.359	178	76744	1.693	ng		100
28) Fluoranthene	19.285	202	98772	1.717	ng		99
30) Pyrene	19.647	202	96189	1.628	ng		100
32) Benzo(a)anthracene	21.384	228	85145	1.628	ng		99
33) Chrysene	21.438	228	93309	1.650	ng		100
34) Bis(2-ethylhexyl)phtha...	21.330	149	31032	1.500	ng		98
36) Indeno(1,2,3-cd)pyrene	26.112	276	97476	1.652	ng		99
37) Benzo(b)fluoranthene	23.028	252	93525	1.679	ng	#	94
38) Benzo(k)fluoranthene	23.075	252	96868	1.728	ng	#	94
39) Benzo(a)pyrene	23.630	252	73009	1.657	ng	#	90
40) Dibenzo(a,h)anthracene	26.127	278	77237	1.676	ng		97
41) Benzo(g,h,i)perylene	26.835	276	78576	1.623	ng		98

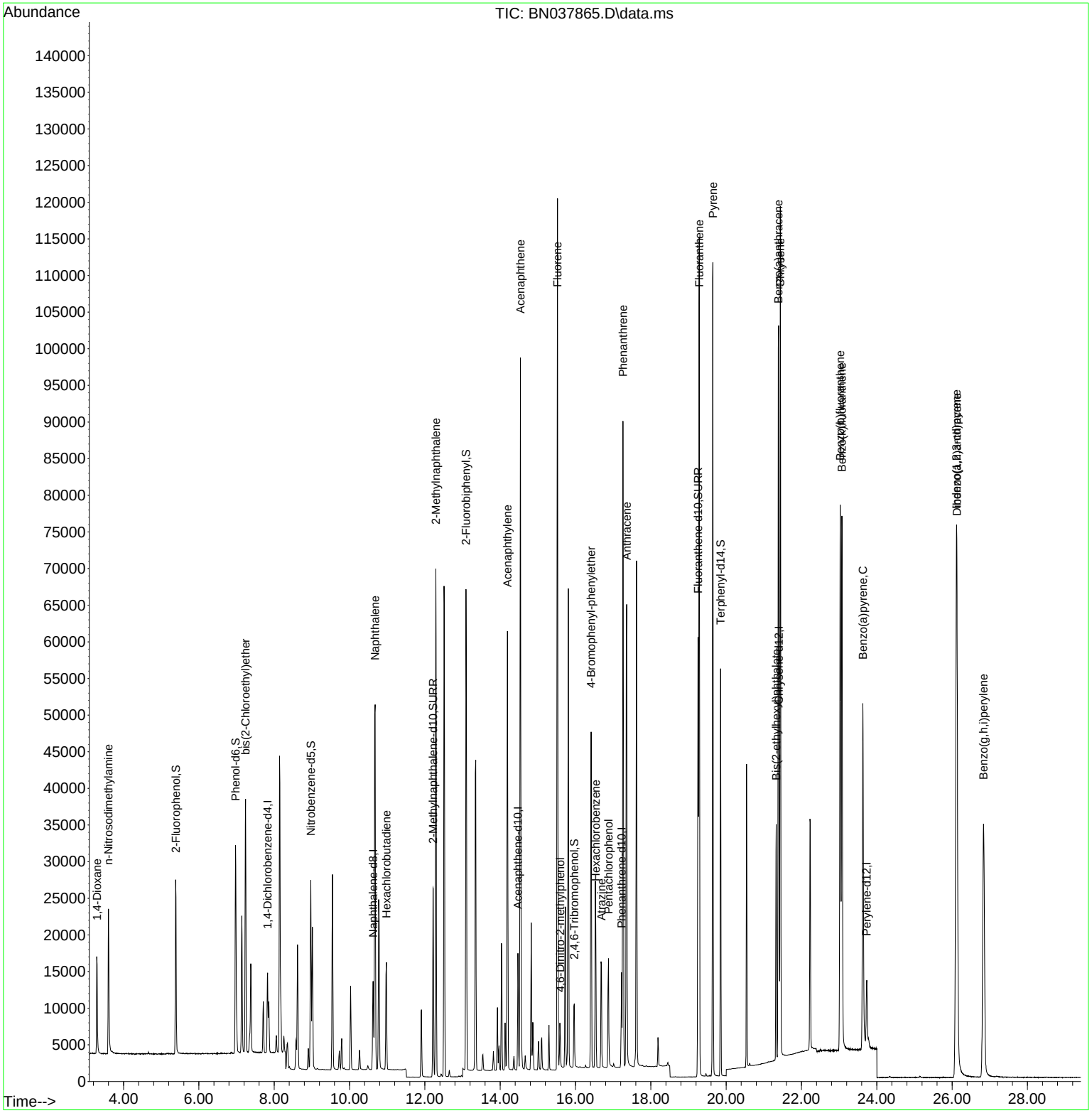
(#) = qualifier out of range (m) = manual integration (+) = signals summed

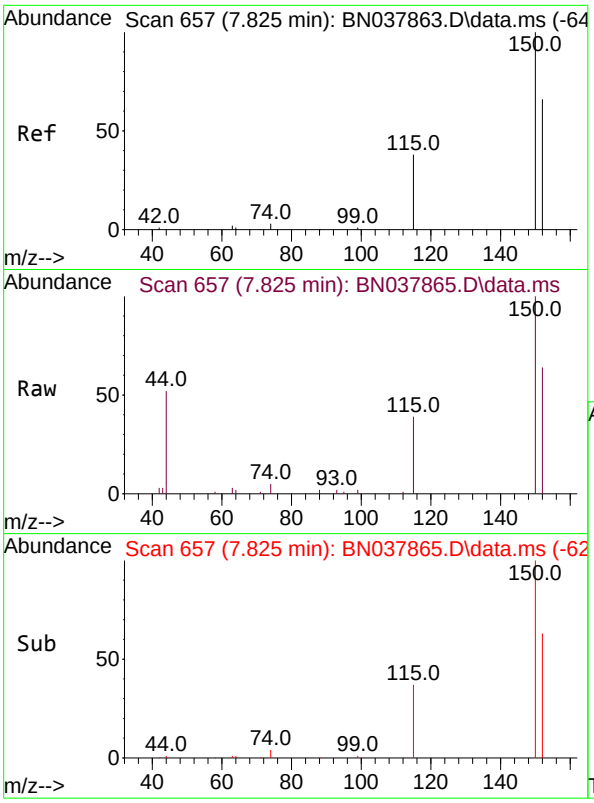
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037865.D
Acq On : 23 Sep 2025 14:38
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Sep 23 16:22:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



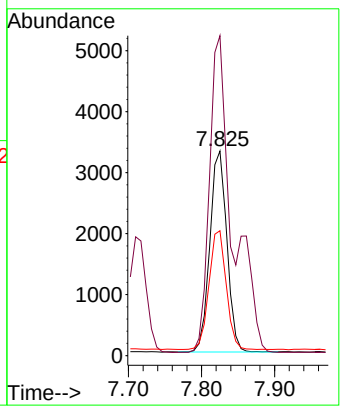


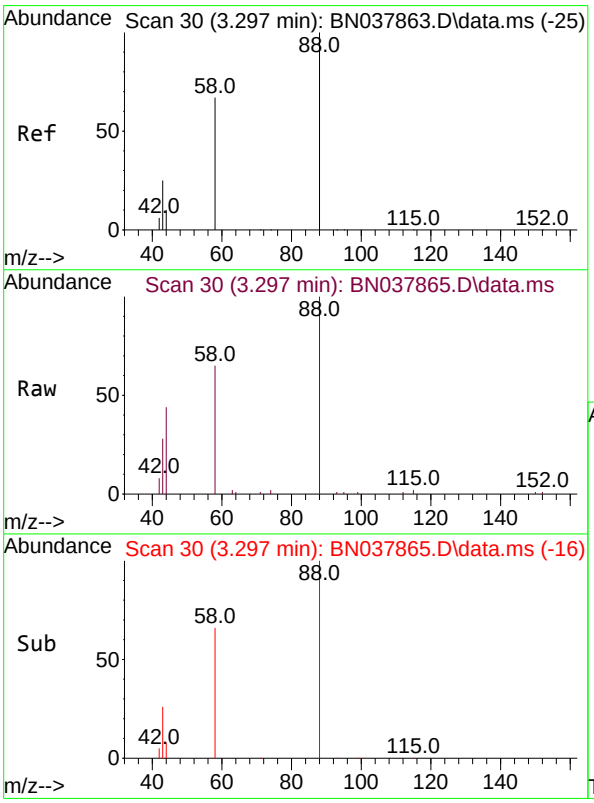
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 5367

Ion	Ratio	Lower	Upper
152	100		
150	156.4	121.0	181.4
115	61.0	47.4	71.0

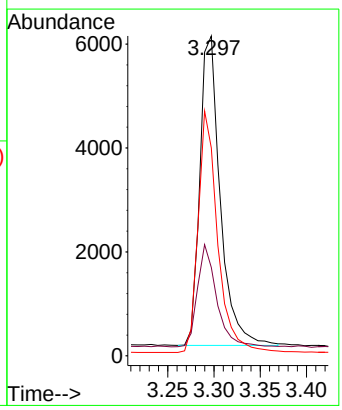


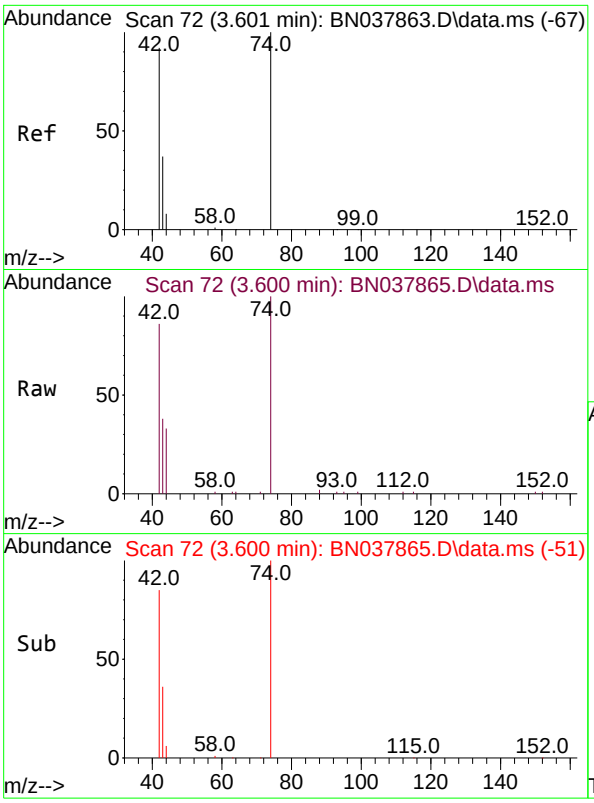


#2
1,4-Dioxane
Concen: 1.674 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion: 88 Resp: 9123

Ion	Ratio	Lower	Upper
88	100		
43	31.3	26.6	39.8
58	74.6	58.9	88.3



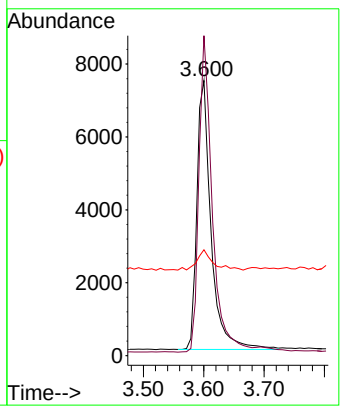


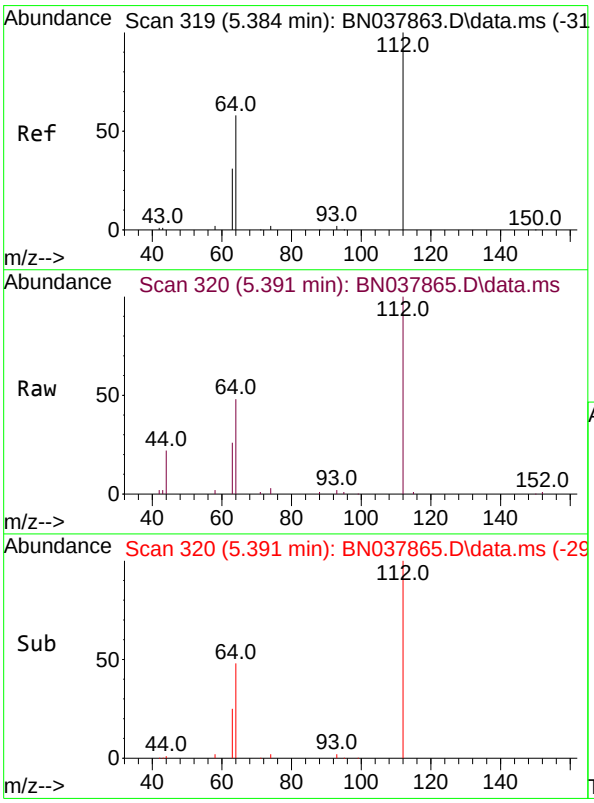
#3
n-Nitrosodimethylamine
Concen: 1.662 ng
RT: 3.600 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 12048

Ion	Ratio	Lower	Upper
42	100		
74	110.9	93.4	140.0
44	8.4	22.2	33.4#

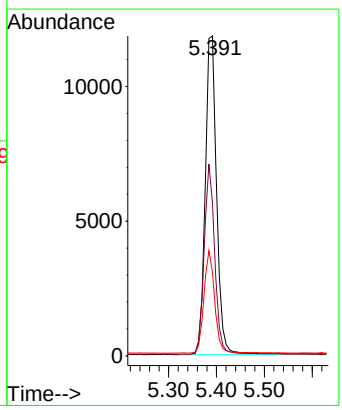


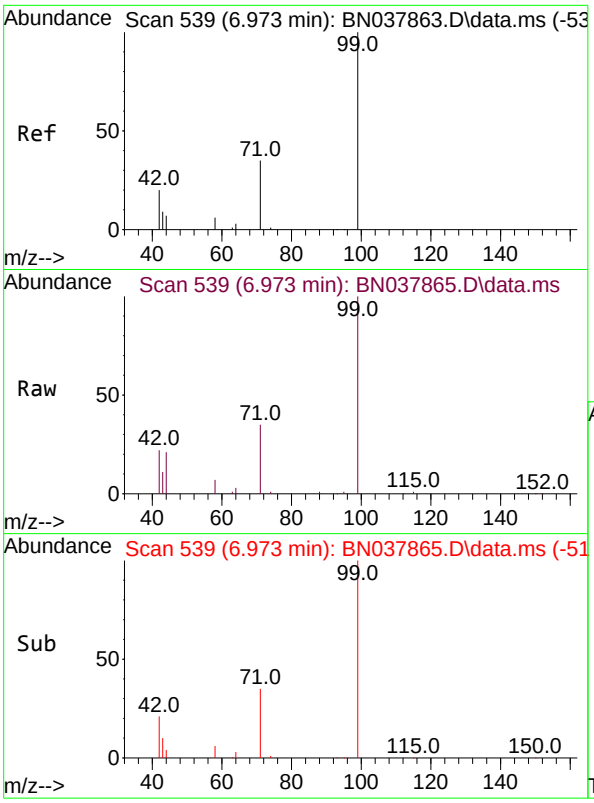


#4
2-Fluorophenol
Concen: 1.592 ng
RT: 5.391 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:112 Resp: 19493

Ion	Ratio	Lower	Upper
112	100		
64	55.9	44.6	66.8
63	30.3	24.9	37.3



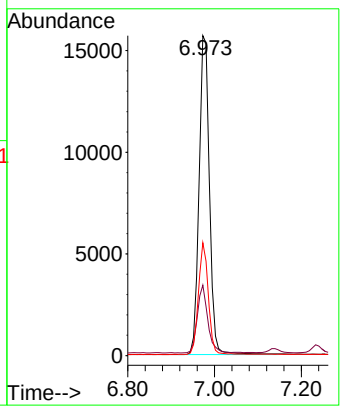


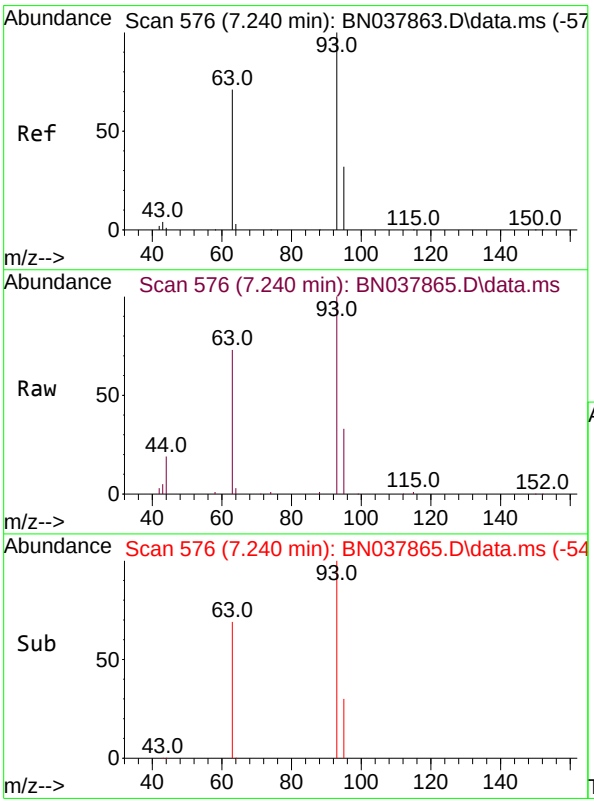
#5
Phenol-d6
Concen: 1.616 ng
RT: 6.973 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 26005

Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.2	25.8
71	33.5	27.3	40.9

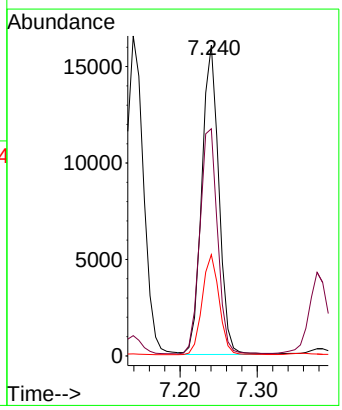


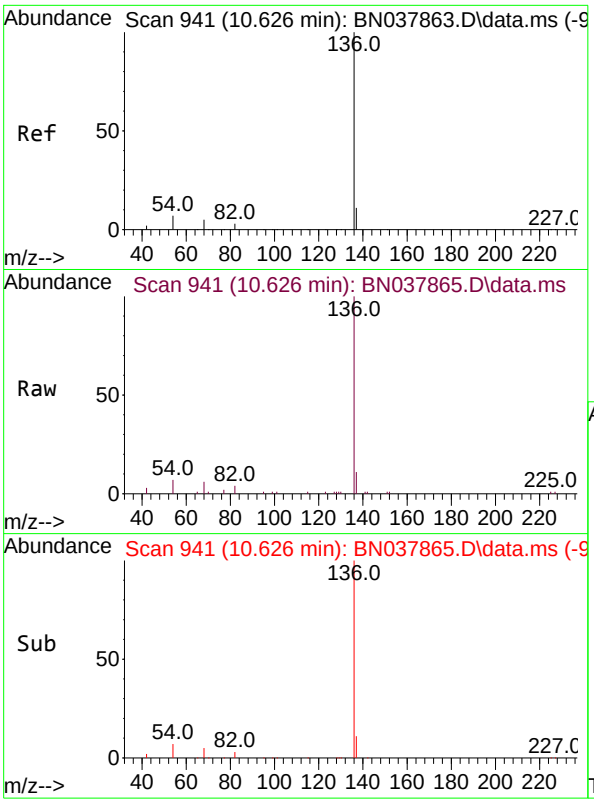


#6
bis(2-Chloroethyl)ether
Concen: 1.653 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion: 93 Resp: 24687

Ion	Ratio	Lower	Upper
93	100		
63	75.4	60.1	90.1
95	32.1	25.4	38.2



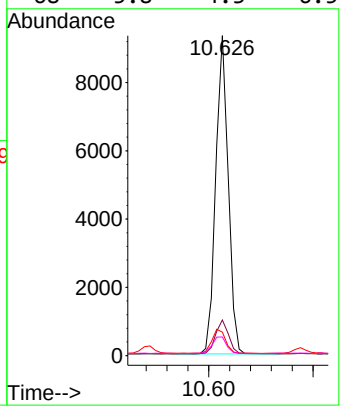


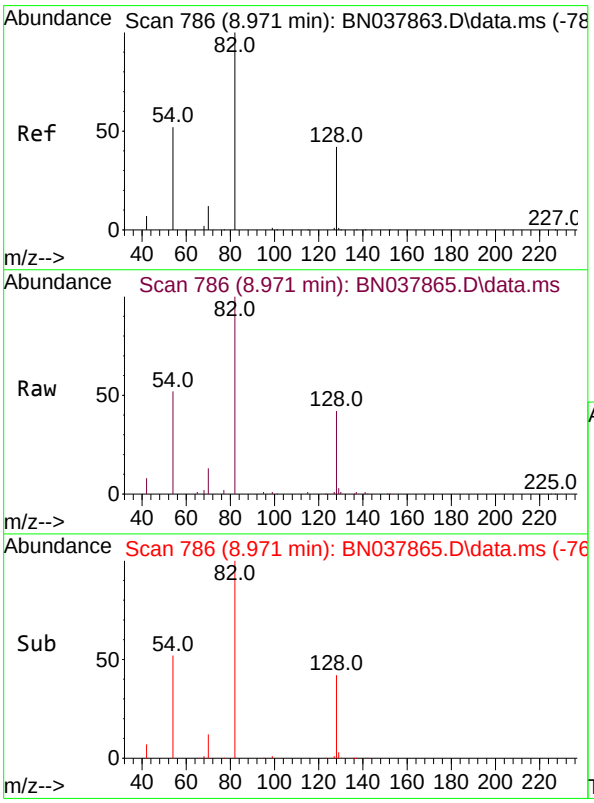
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 15494

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	7.3	5.8	8.8
68	5.8	4.3	6.5

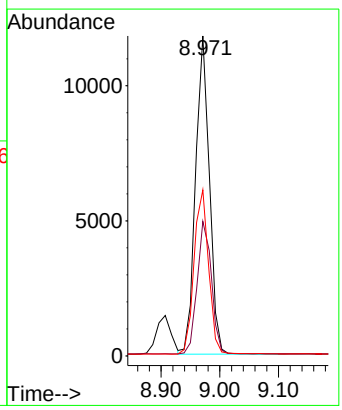


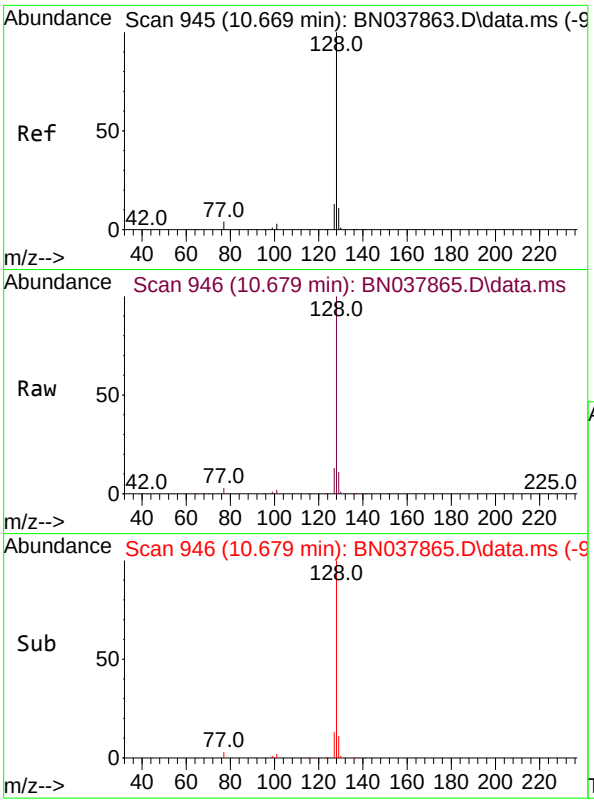


#8
Nitrobenzene-d5
Concen: 1.627 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion: 82 Resp: 19230

Ion	Ratio	Lower	Upper
82	100		
128	42.0	34.8	52.2
54	51.9	42.2	63.2



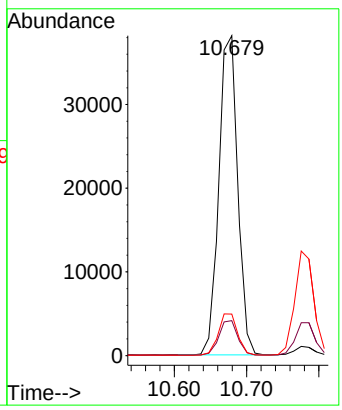


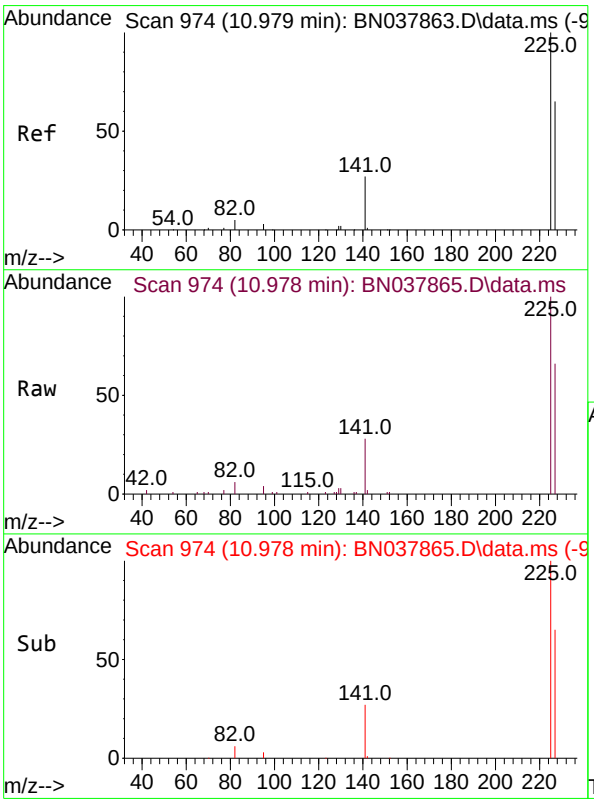
#9
Naphthalene
Concen: 1.631 ng
RT: 10.679 min Scan# 94
Delta R.T. 0.010 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 69620

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.2	13.8
127	13.0	11.0	16.6

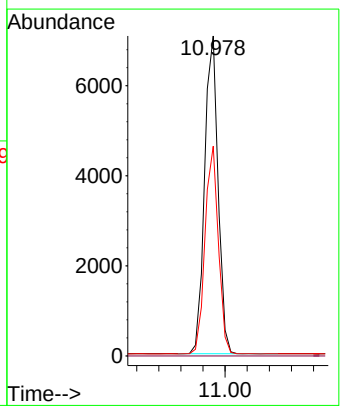


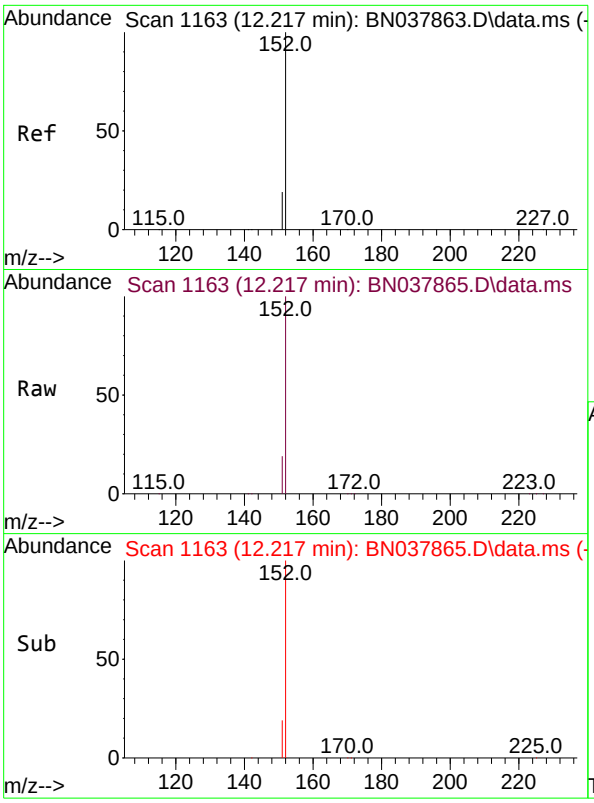


#10
Hexachlorobutadiene
Concen: 1.634 ng
RT: 10.978 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:225 Resp: 11899

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	51.4	77.2



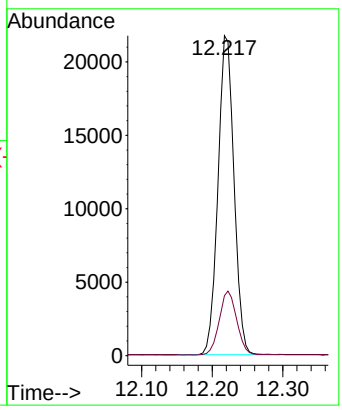


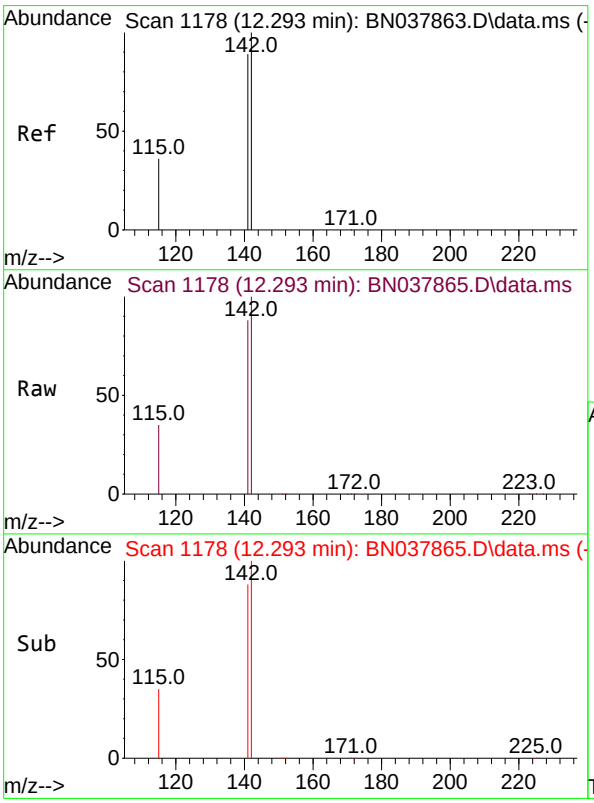
#11
2-Methylnaphthalene-d10
Concen: 1.592 ng
RT: 12.217 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 34256

Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.4	26.2

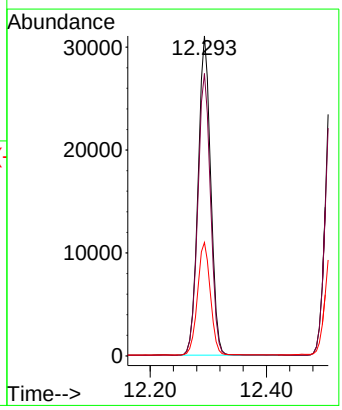


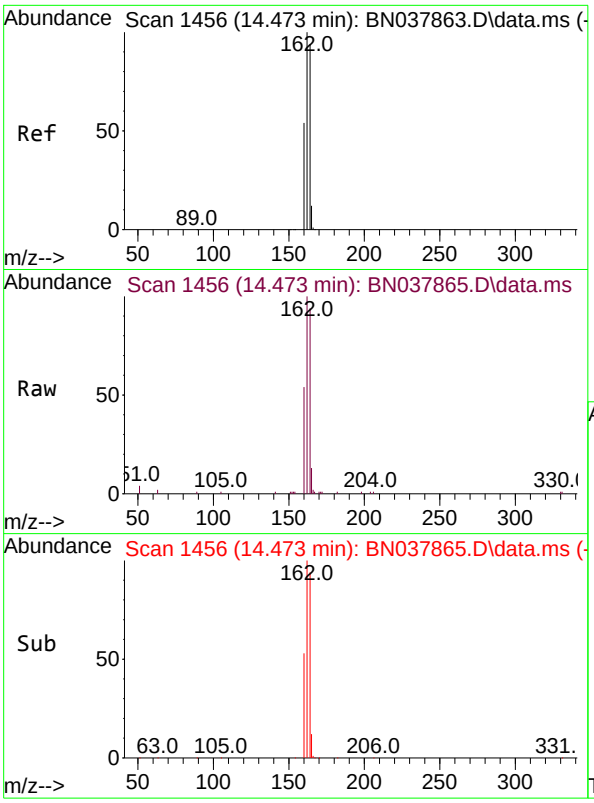


#12
2-Methylnaphthalene
Concen: 1.675 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:142 Resp: 46704

Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.2	106.8
115	35.4	29.7	44.5



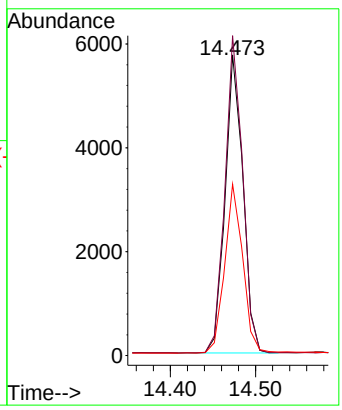


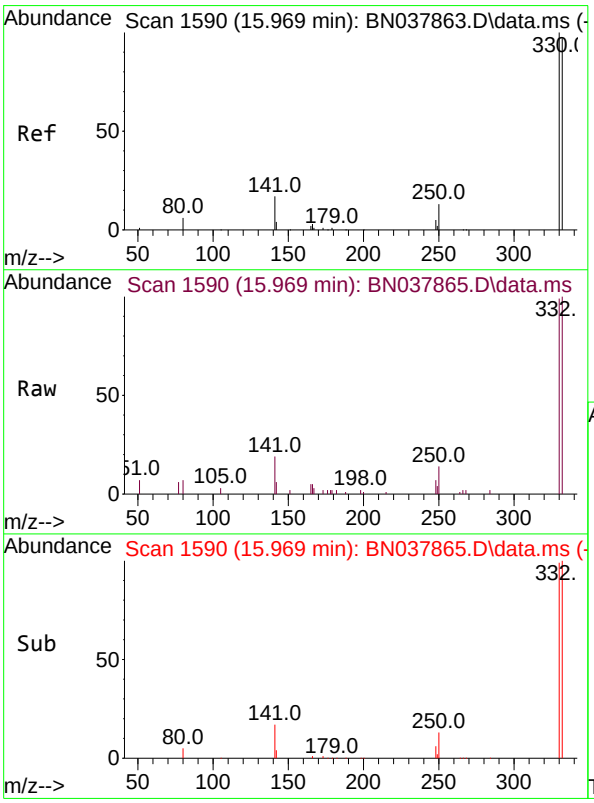
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 8404

Ion	Ratio	Lower	Upper
164	100		
162	106.4	84.8	127.2
160	57.0	46.1	69.1

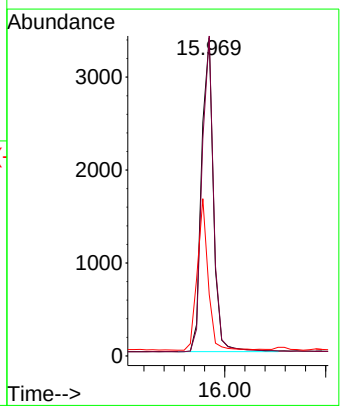


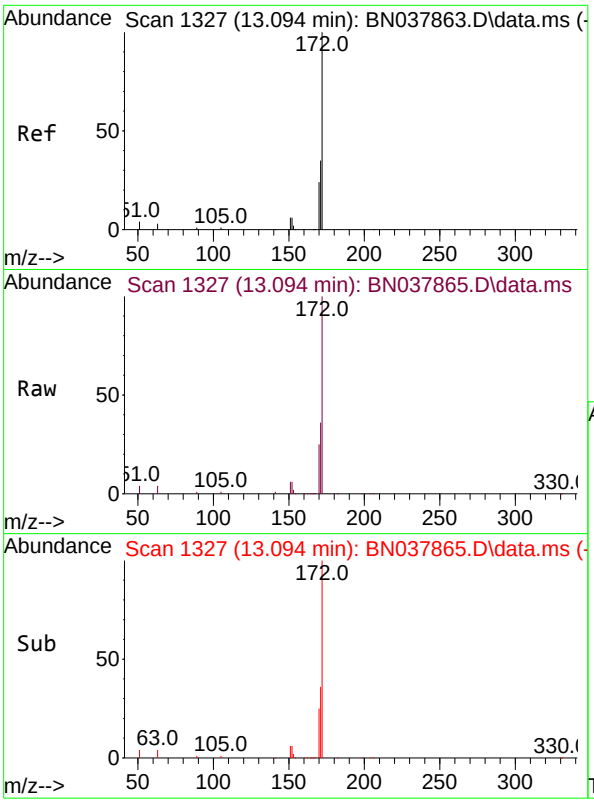


#14
2,4,6-Tribromophenol
Concen: 1.613 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:330 Resp: 5471

Ion	Ratio	Lower	Upper
330	100		
332	98.1	77.2	115.8
141	44.0	37.2	55.8



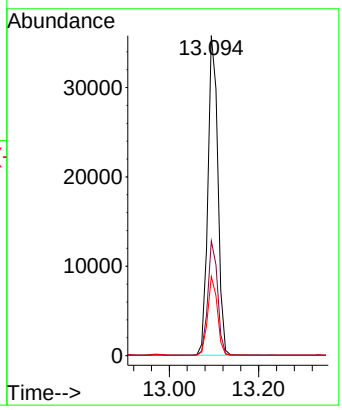


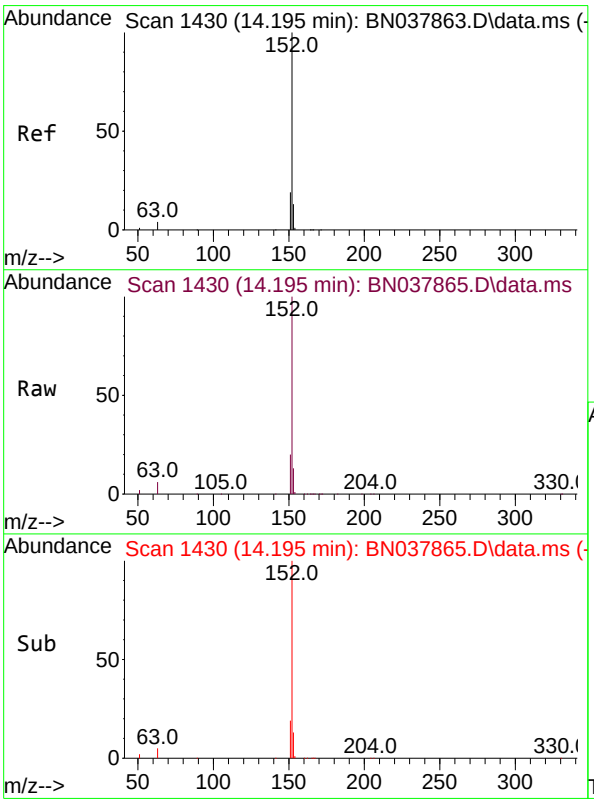
#15
2-Fluorobiphenyl
Concen: 1.616 ng
RT: 13.094 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 55598

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.7	19.7	29.5

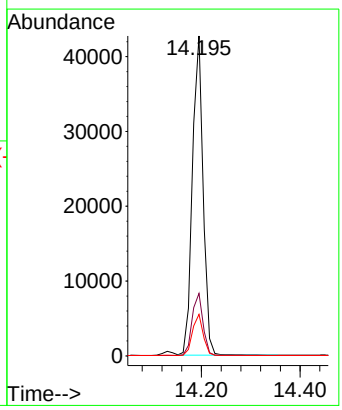


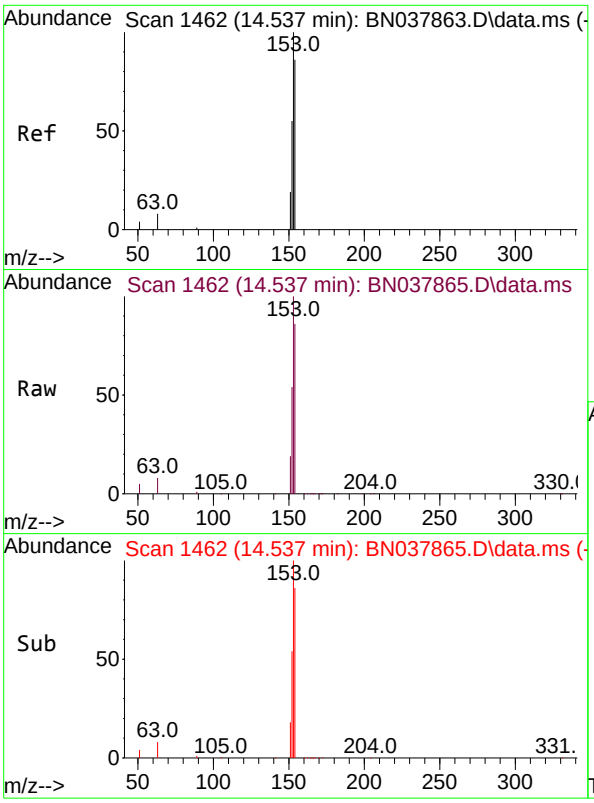


#16
Acenaphthylene
Concen: 1.680 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:152 Resp: 64093

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.8
153	12.9	10.5	15.7



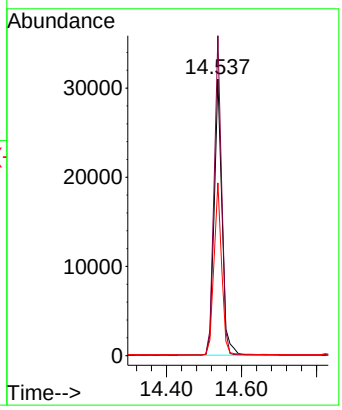


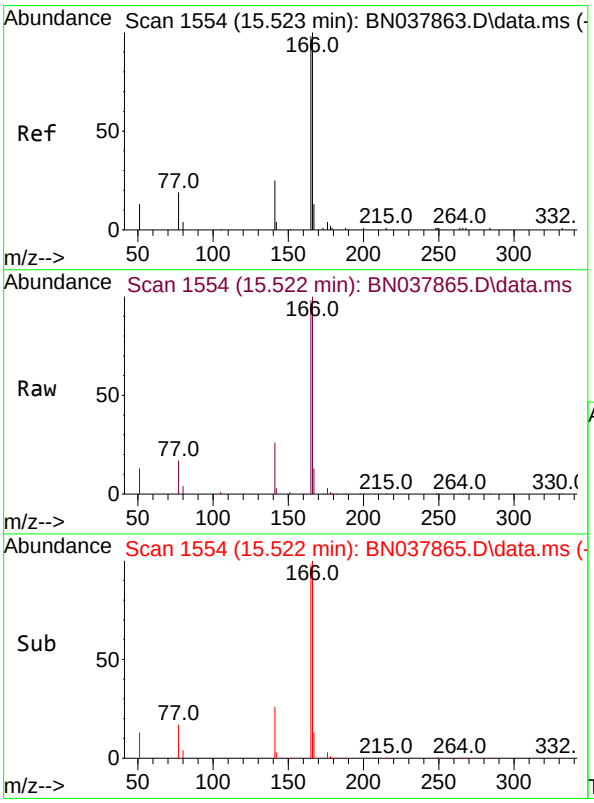
#17
Acenaphthene
Concen: 1.670 ng
RT: 14.537 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 45411

Ion	Ratio	Lower	Upper
154	100		
153	110.4	90.5	135.7
152	61.0	51.8	77.8

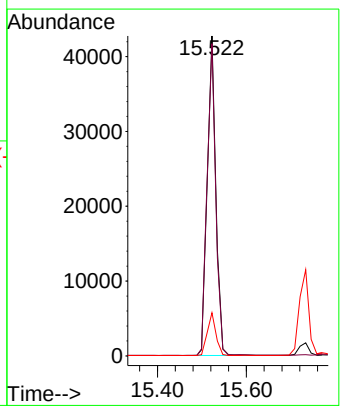


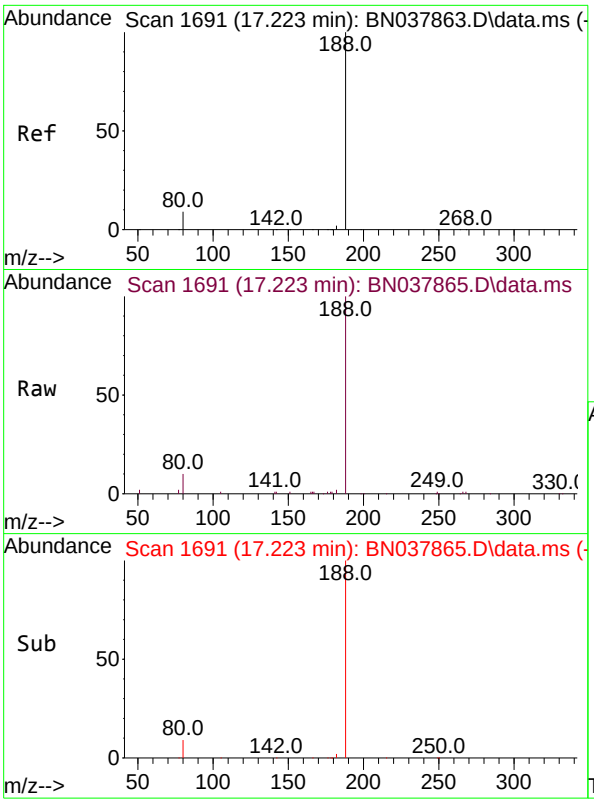


#18
Fluorene
Concen: 1.701 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:166 Resp: 55922

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.0	118.4
167	13.1	10.6	16.0



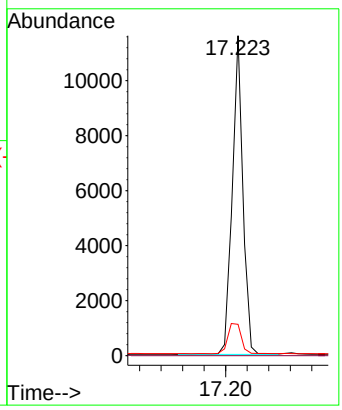


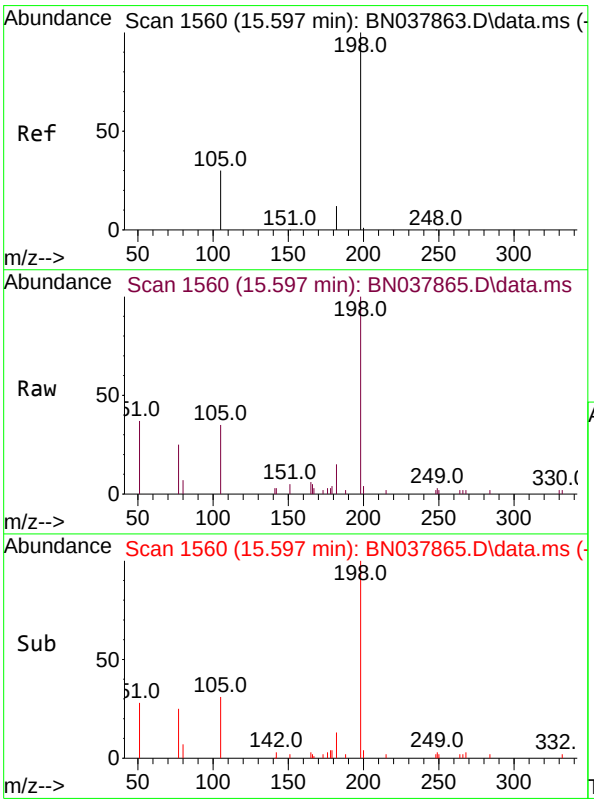
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 15875

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.8	7.6	11.4

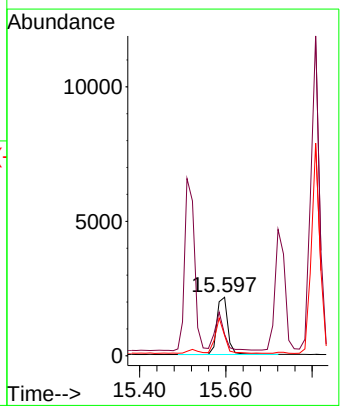


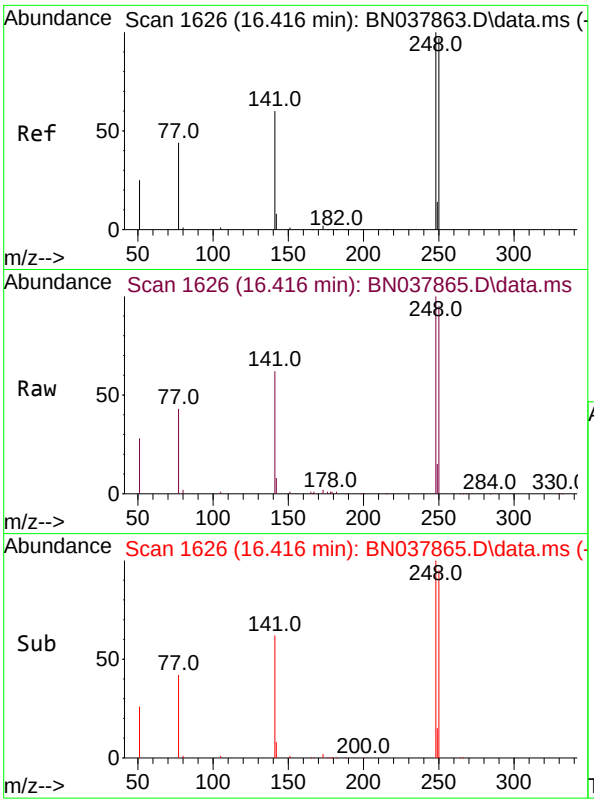


#20
4,6-Dinitro-2-methylphenol
Concen: 1.602 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:198 Resp: 3669

Ion	Ratio	Lower	Upper
198	100		
51	36.7	59.1	88.7#
105	34.9	41.3	61.9#



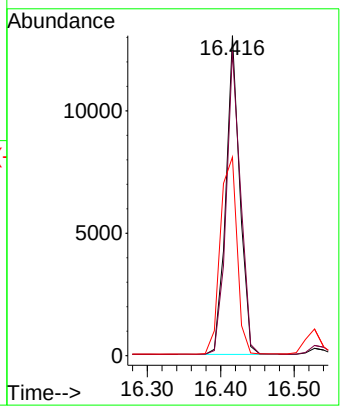


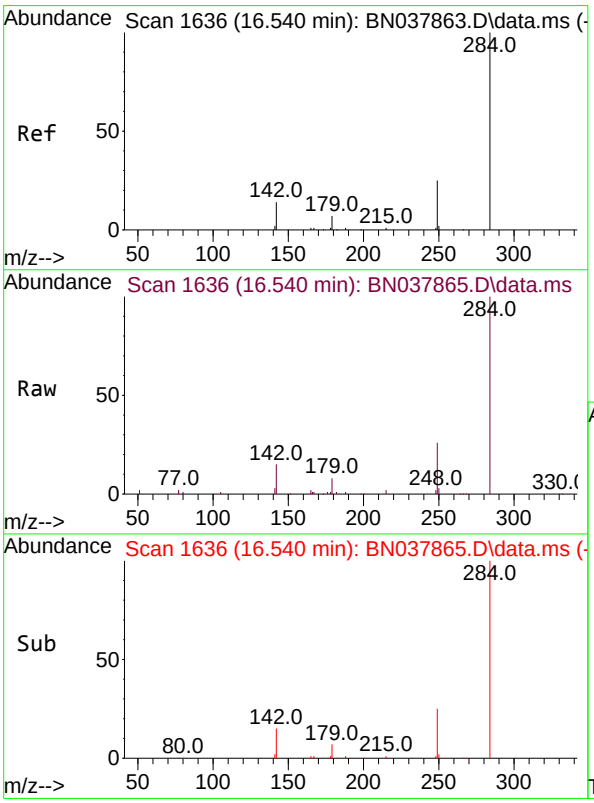
#21
4-Bromophenyl-phenylether
Concen: 1.670 ng
RT: 16.416 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 17278

Ion	Ratio	Lower	Upper
248	100		
250	95.0	77.6	116.4
141	62.0	48.8	73.2

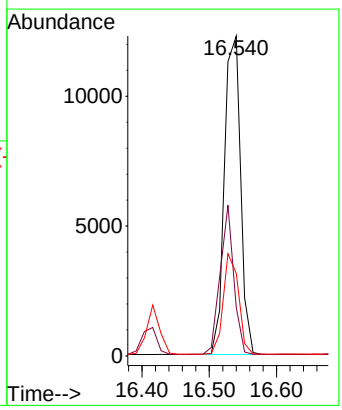


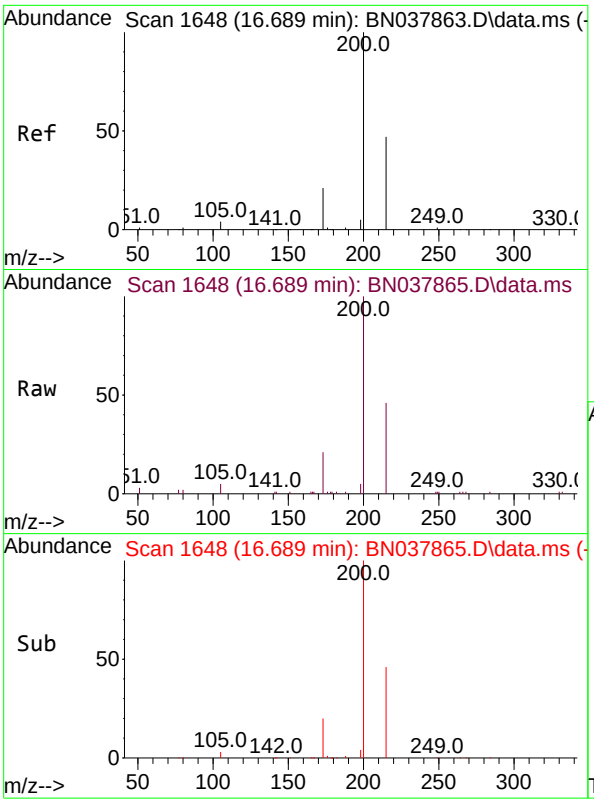


#22
Hexachlorobenzene
Concen: 1.638 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:284 Resp: 20548

Ion	Ratio	Lower	Upper
284	100		
142	39.6	30.9	46.3
249	29.9	23.9	35.9



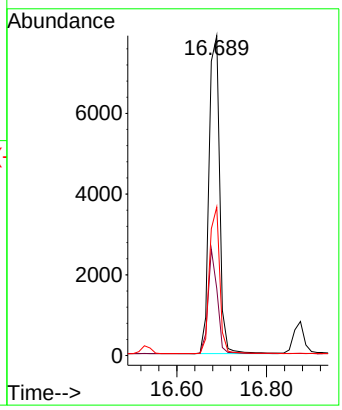


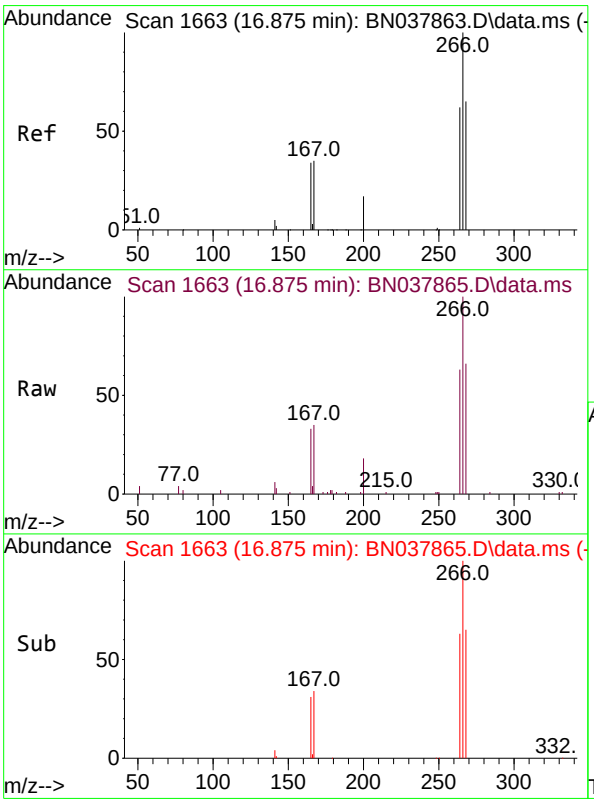
#23
Atrazine
Concen: 1.656 ng
RT: 16.689 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 13043

Ion	Ratio	Lower	Upper
200	100		
173	21.0	18.3	27.5
215	46.4	38.6	58.0

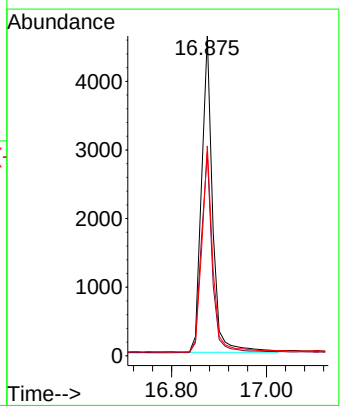


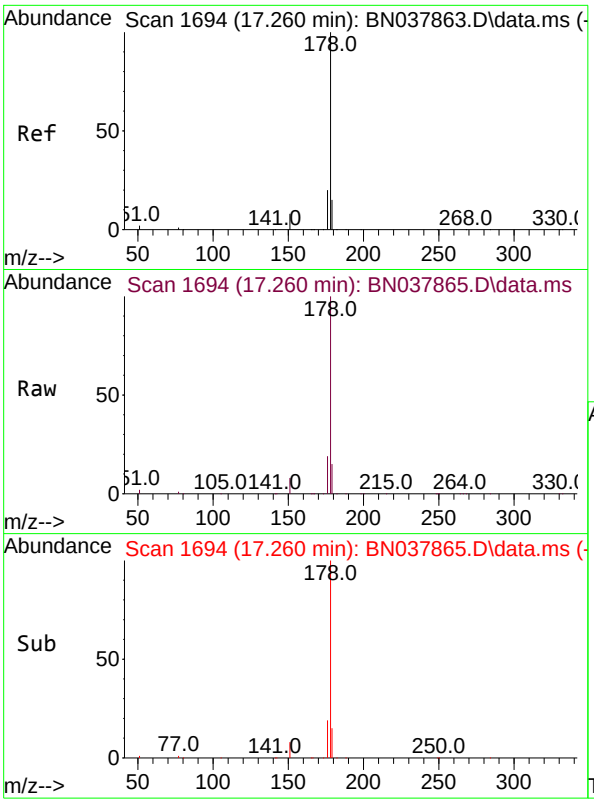


#24
Pentachlorophenol
Concen: 1.718 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:266 Resp: 7393

Ion	Ratio	Lower	Upper
266	100		
264	63.1	50.9	76.3
268	64.6	54.3	81.5



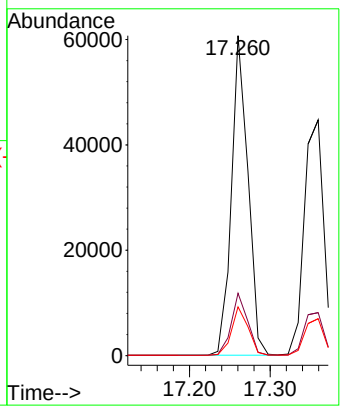


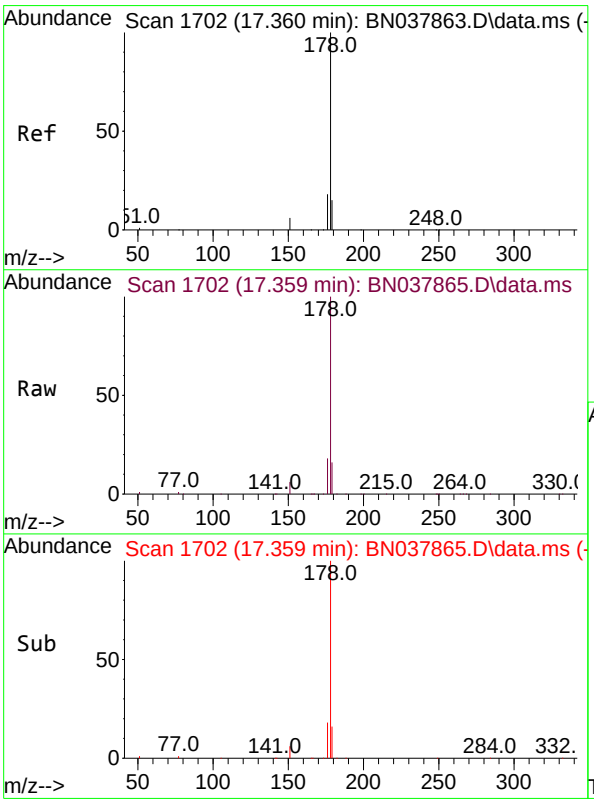
#25
Phenanthrene
Concen: 1.650 ng
RT: 17.260 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 86207

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.7	23.5
179	15.3	12.3	18.5

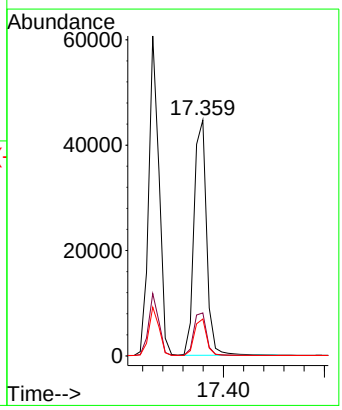


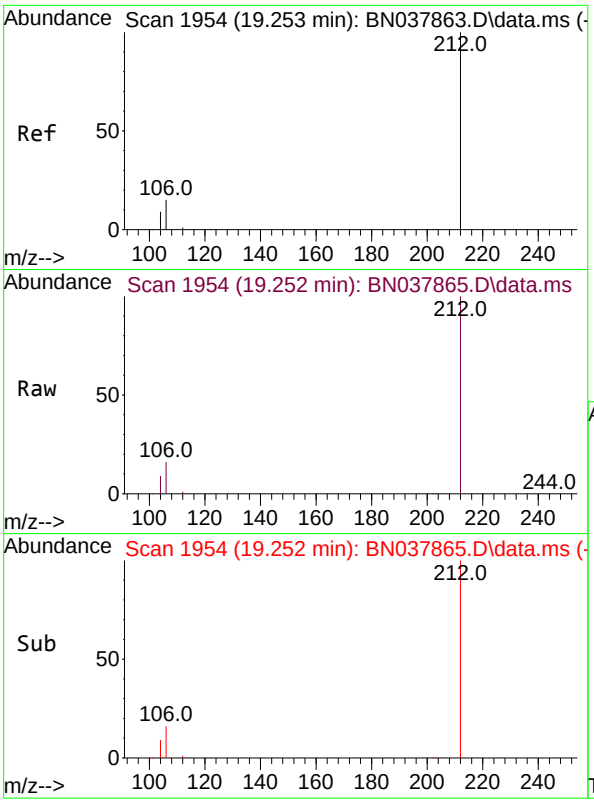


#26
Anthracene
Concen: 1.693 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:178 Resp: 76744

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.4
179	15.3	12.3	18.5



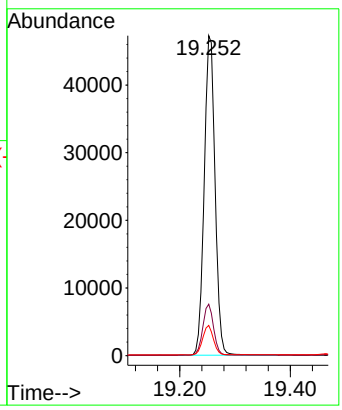


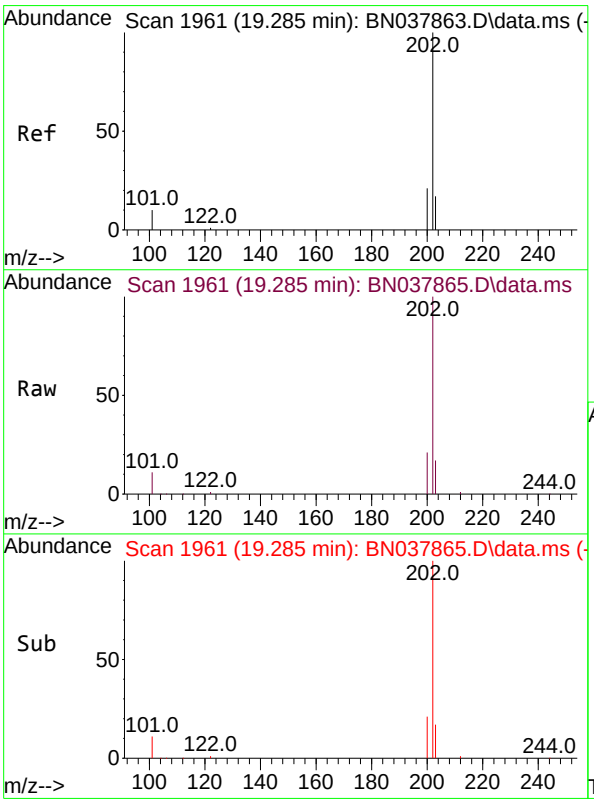
#27
Fluoranthene-d10
Concen: 1.597 ng
RT: 19.252 min Scan# 19
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 63771

Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.6	19.0
104	9.1	7.4	11.0

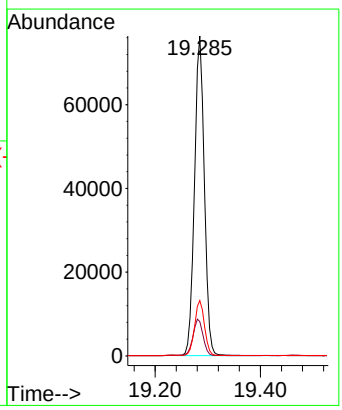


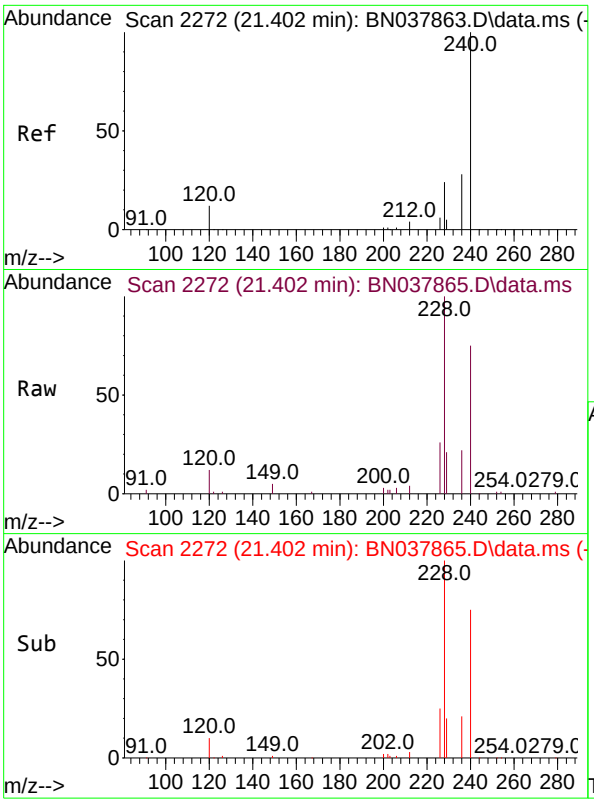


#28
Fluoranthene
Concen: 1.717 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:202 Resp: 98772

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.3	13.9
203	17.2	13.6	20.4



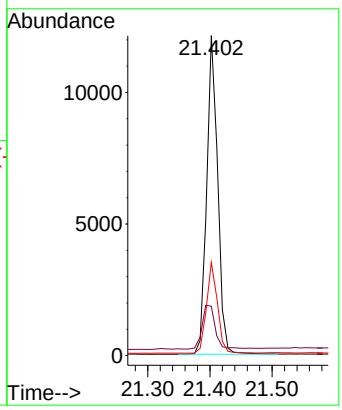


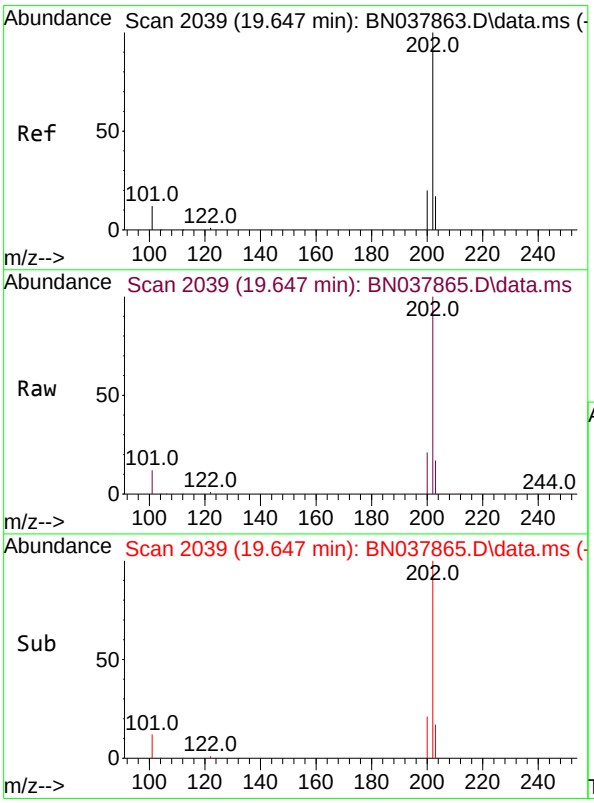
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 14963

Ion	Ratio	Lower	Upper
240	100		
120	15.4	11.4	17.2
236	29.1	23.0	34.6

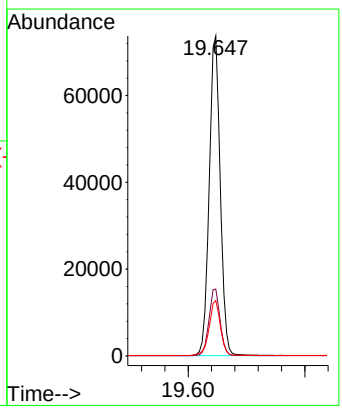


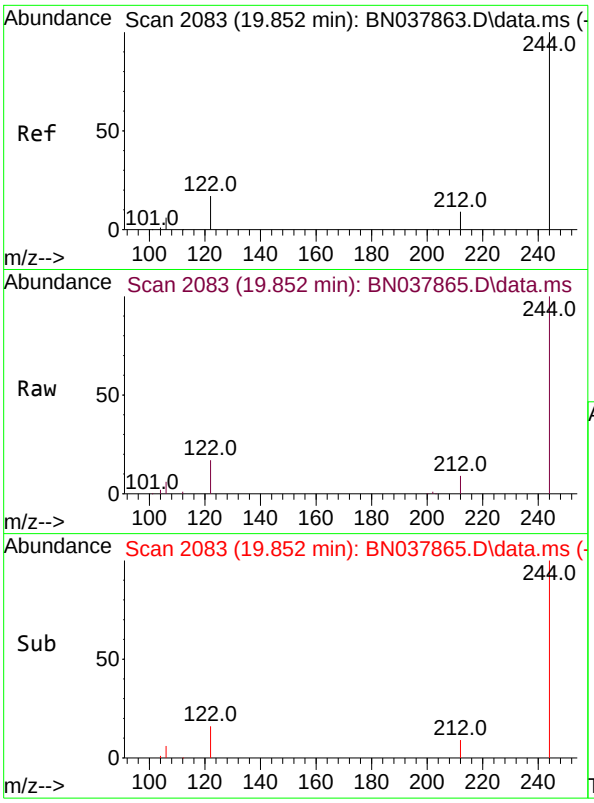


#30
Pyrene
Concen: 1.628 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:202 Resp: 96189

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.7	25.1
203	17.6	14.2	21.4



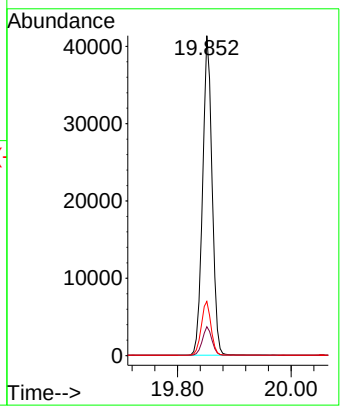


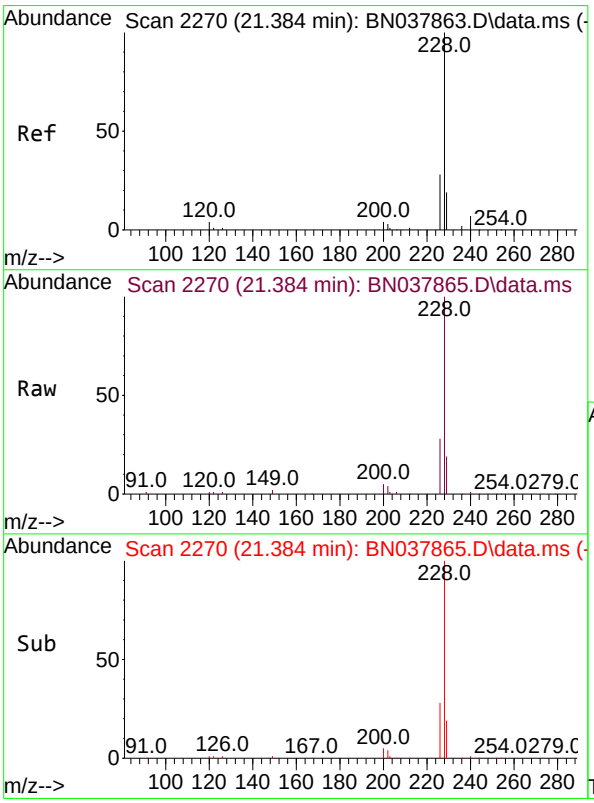
#31
Terphenyl-d14
Concen: 1.603 ng
RT: 19.852 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 47765

Ion	Ratio	Lower	Upper
244	100		
212	9.0	7.6	11.4
122	16.9	13.9	20.9

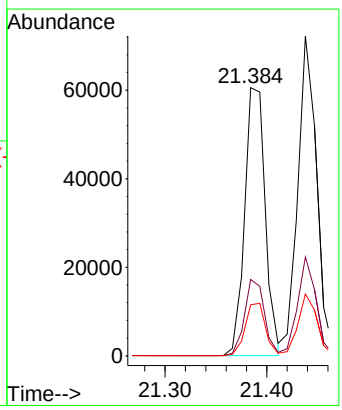


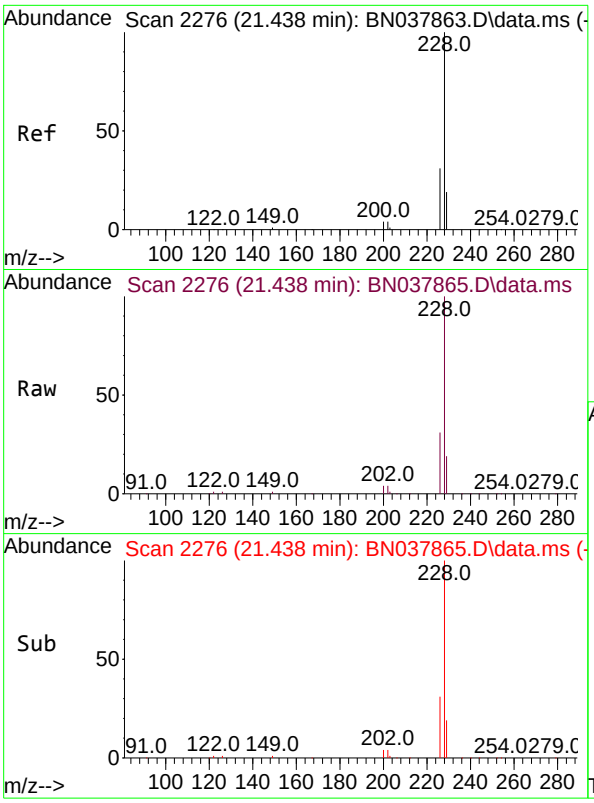


#32
Benzo(a)anthracene
Concen: 1.628 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:228 Resp: 85145

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	19.1	15.6	23.4



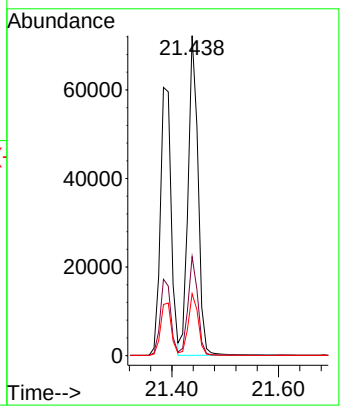


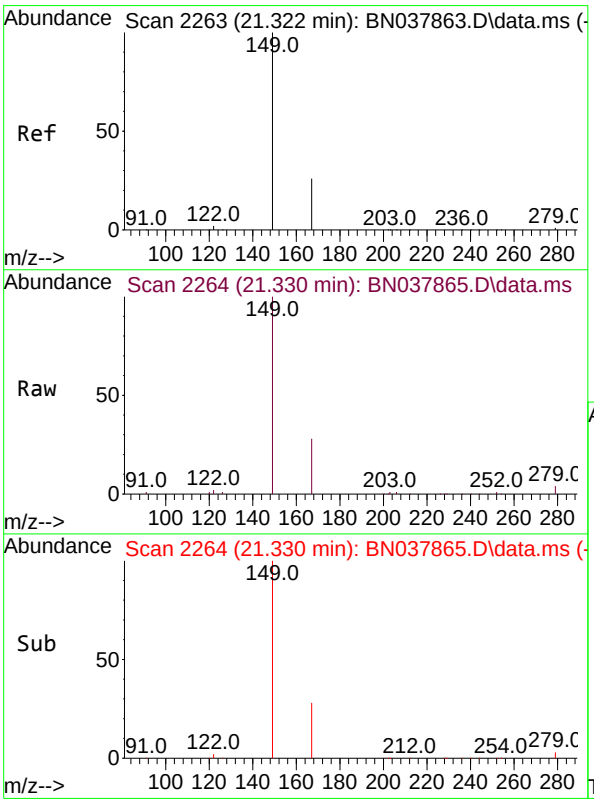
#33
Chrysene
Concen: 1.650 ng
RT: 21.438 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 93309

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	19.3	15.6	23.4

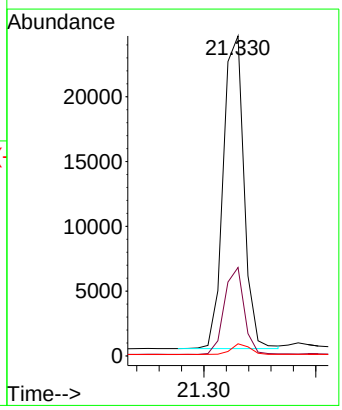


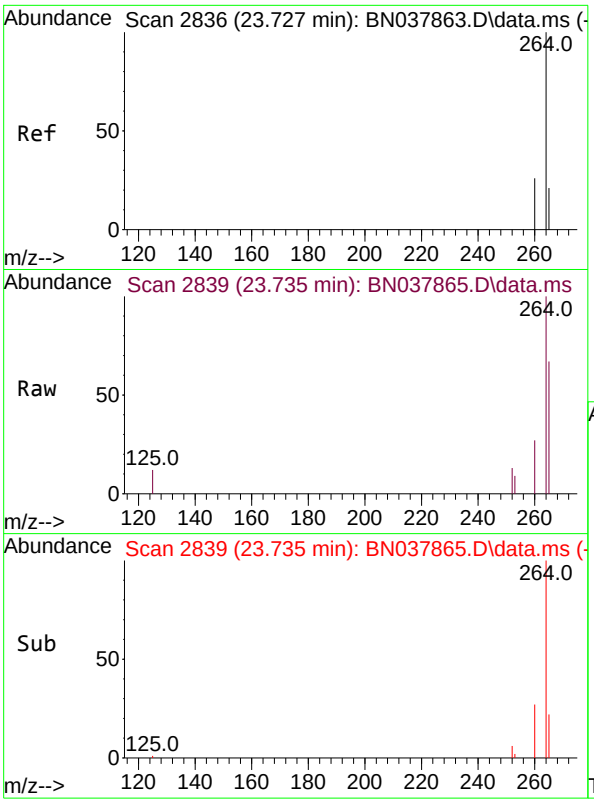


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.500 ng
RT: 21.330 min Scan# 2264
Delta R.T. 0.009 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:149 Resp: 31032

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.4	30.6
279	3.4	2.4	3.6



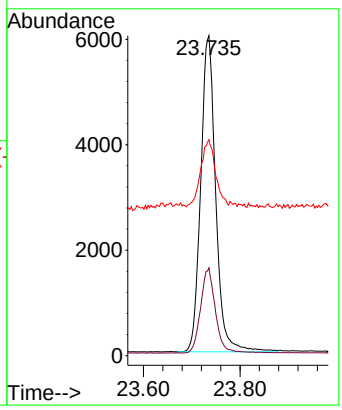


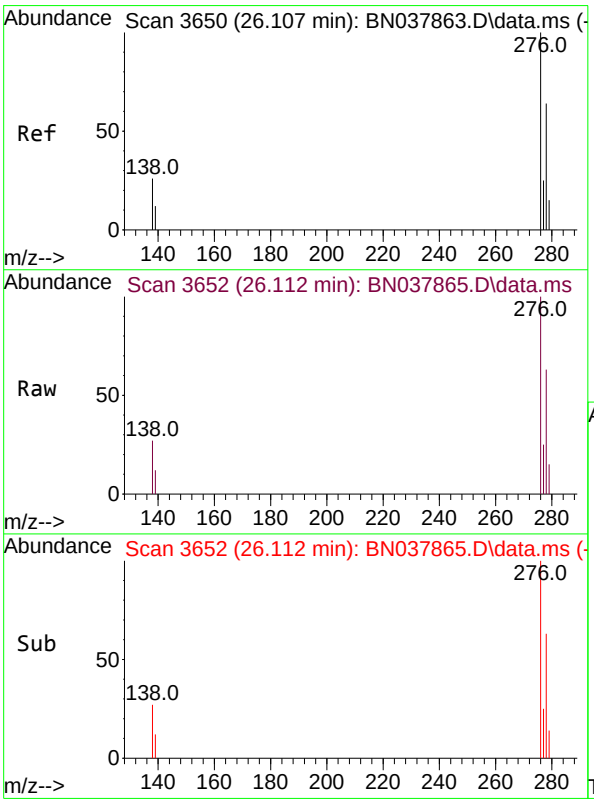
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.735 min Scan# 28
Delta R.T. 0.009 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 12917

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.5	32.3
265	67.5	53.8	80.6

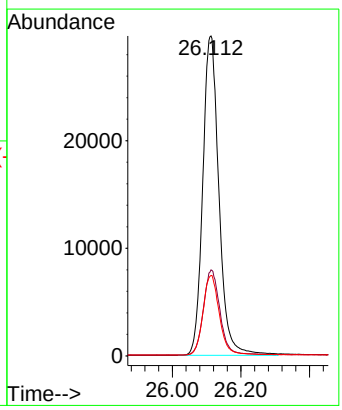


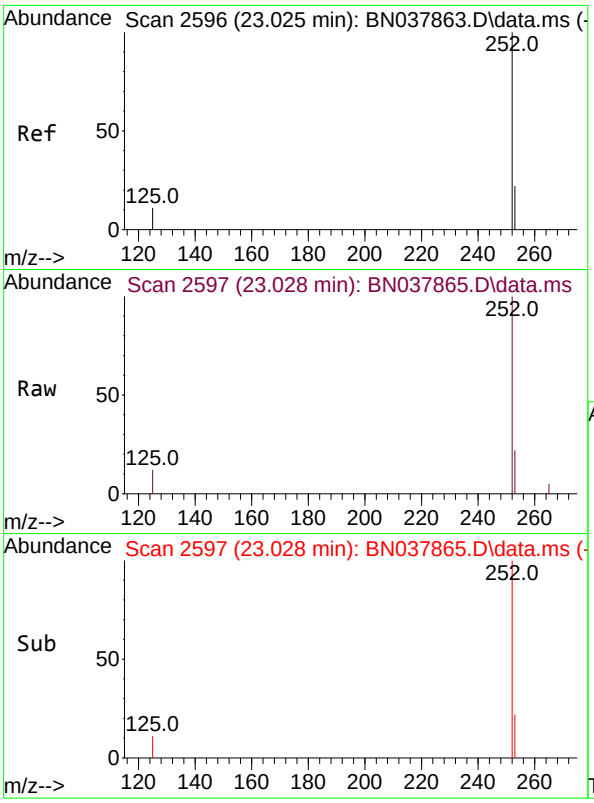


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.652 ng
RT: 26.112 min Scan# 3652
Delta R.T. 0.006 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:276 Resp: 97476

Ion	Ratio	Lower	Upper
276	100		
138	27.1	21.4	32.0
277	25.1	20.3	30.5



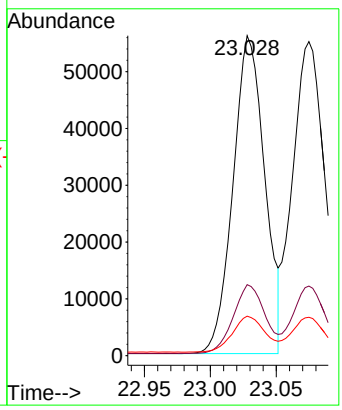


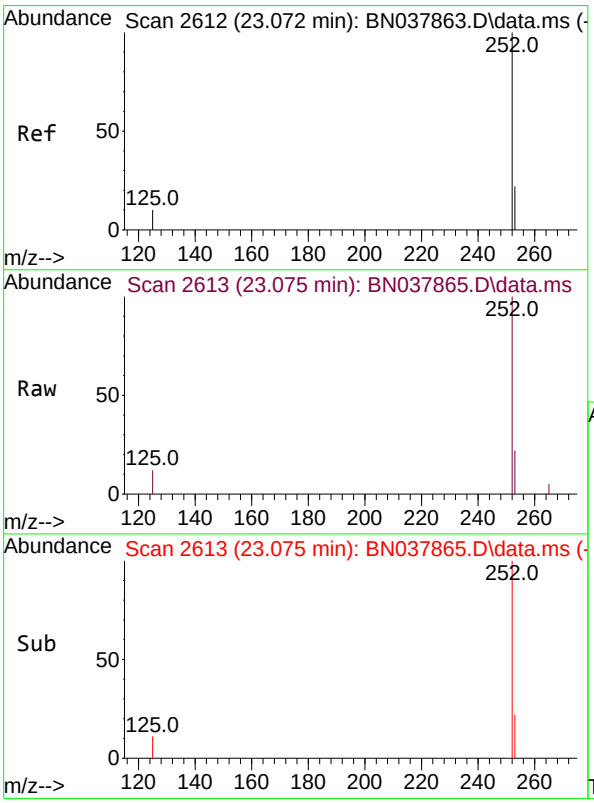
#37
Benzo(b)fluoranthene
Concen: 1.679 ng
RT: 23.028 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 93525

Ion	Ratio	Lower	Upper
252	100		
253	22.2	19.4	29.0
125	12.3	13.0	19.4#

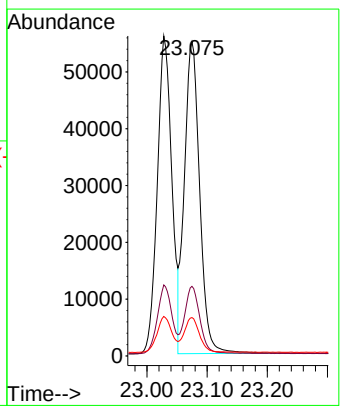


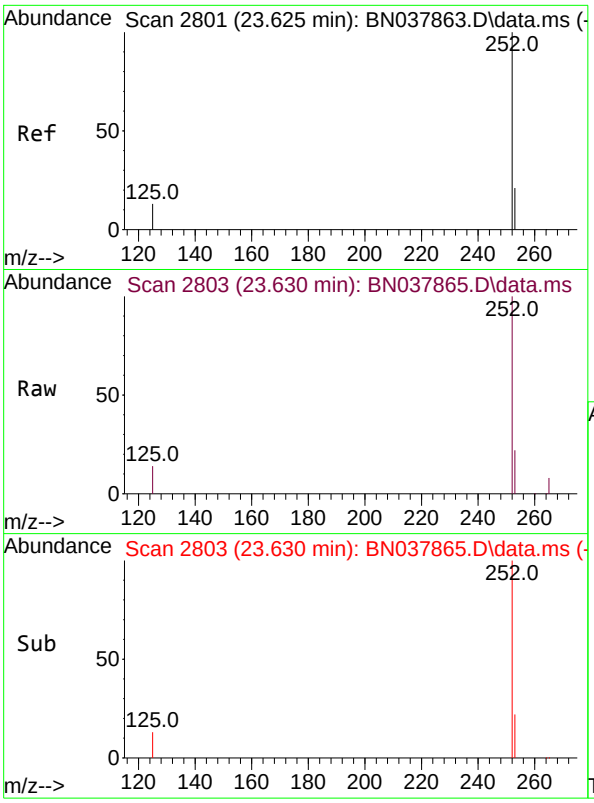


#38
Benzo(k)fluoranthene
Concen: 1.728 ng
RT: 23.075 min Scan# 2613
Delta R.T. 0.003 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:252 Resp: 96868

Ion	Ratio	Lower	Upper
252	100		
253	22.1	19.5	29.3
125	12.2	13.0	19.4#



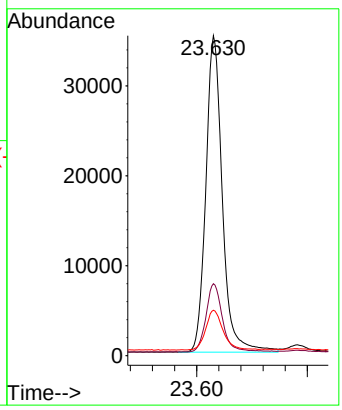


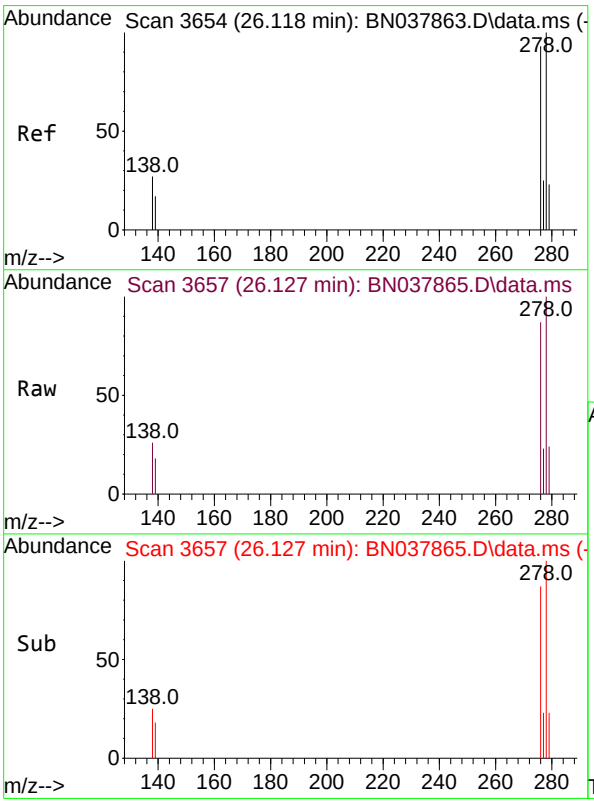
#39
Benzo(a)pyrene
Concen: 1.657 ng
RT: 23.630 min Scan# 28
Delta R.T. 0.006 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 73009

Ion	Ratio	Lower	Upper
252	100		
253	22.5	20.6	30.8
125	14.2	16.7	25.1#

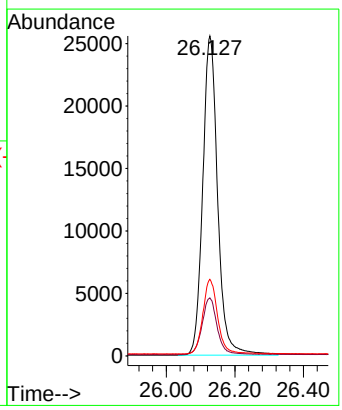


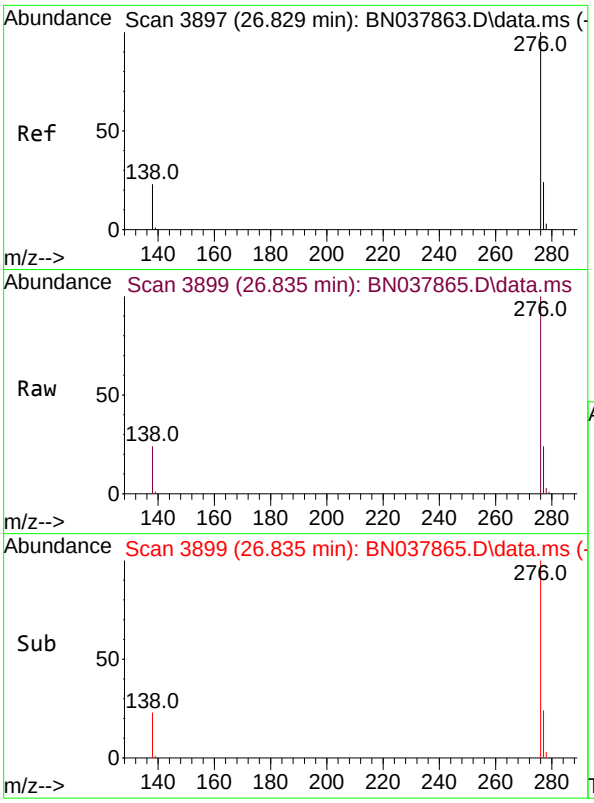


#40
Dibenzo(a,h)anthracene
Concen: 1.676 ng
RT: 26.127 min Scan# 3657
Delta R.T. 0.009 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:278 Resp: 77237

Ion	Ratio	Lower	Upper
278	100		
139	18.1	15.4	23.2
279	23.9	20.8	31.2



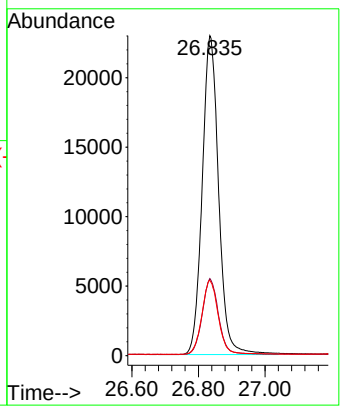


#41
Benzo(g,h,i)perylene
Concen: 1.623 ng
RT: 26.835 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 78576

Ion	Ratio	Lower	Upper
276	100		
277	24.1	20.2	30.4
138	23.5	19.8	29.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037866.D
Acq On : 23 Sep 2025 15:15
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Sep 23 16:23:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.825	152	5486	0.400	ng		0.00
7) Naphthalene-d8	10.626	136	15583	0.400	ng		0.00
13) Acenaphthene-d10	14.473	164	8623	0.400	ng		0.00
19) Phenanthrene-d10	17.223	188	16225	0.400	ng		0.00
29) Chrysene-d12	21.402	240	16309	0.400	ng	#	0.00
35) Perylene-d12	23.736	264	13684	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.392	112	40521	3.237	ng		0.00
5) Phenol-d6	6.980	99	54237	3.297	ng		0.00
8) Nitrobenzene-d5	8.971	82	39859	3.353	ng		0.00
11) 2-Methylnaphthalene-d10	12.222	152	73211	3.382	ng		0.00
14) 2,4,6-Tribromophenol	15.969	330	12677	3.642	ng		0.00
15) 2-Fluorobiphenyl	13.094	172	113791	3.223	ng		0.00
27) Fluoranthene-d10	19.257	212	140845	3.451	ng		0.00
31) Terphenyl-d14	19.852	244	105582	3.250	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	18009	3.234	ng		99
3) n-Nitrosodimethylamine	3.593	42	24113	3.255	ng	#	89
6) bis(2-Chloroethyl)ether	7.240	93	49318	3.230	ng		100
9) Naphthalene	10.680	128	141732	3.301	ng		98
10) Hexachlorobutadiene	10.979	225	23493	3.208	ng	#	99
12) 2-Methylnaphthalene	12.293	142	96667	3.447	ng		99
16) Acenaphthylene	14.195	152	134565	3.437	ng		100
17) Acenaphthene	14.537	154	94611	3.392	ng		95
18) Fluorene	15.522	166	118468	3.511	ng		100
20) 4,6-Dinitro-2-methylph...	15.597	198	9172	3.211	ng	#	62
21) 4-Bromophenyl-phenylether	16.416	248	35637	3.370	ng		96
22) Hexachlorobenzene	16.540	284	41902	3.269	ng		100
23) Atrazine	16.689	200	29112	3.616	ng		97
24) Pentachlorophenol	16.875	266	17645	4.011	ng		97
25) Phenanthrene	17.260	178	178985	3.352	ng		99
26) Anthracene	17.360	178	165527	3.573	ng		100
28) Fluoranthene	19.285	202	209920	3.570	ng		99
30) Pyrene	19.647	202	208135	3.232	ng		100
32) Benzo(a)anthracene	21.393	228	193464	3.394	ng		98
33) Chrysene	21.438	228	197283	3.201	ng		99
34) Bis(2-ethylhexyl)phtha...	21.331	149	74195	3.291	ng		98
36) Indeno(1,2,3-cd)pyrene	26.118	276	218487	3.494	ng		100
37) Benzo(b)fluoranthene	23.031	252	202282	3.428	ng	#	93
38) Benzo(k)fluoranthene	23.078	252	209819	3.534	ng	#	93
39) Benzo(a)pyrene	23.636	252	163321	3.499	ng	#	88
40) Dibenzo(a,h)anthracene	26.133	278	173724	3.558	ng		96
41) Benzo(g,h,i)perylene	26.841	276	176617	3.443	ng		97

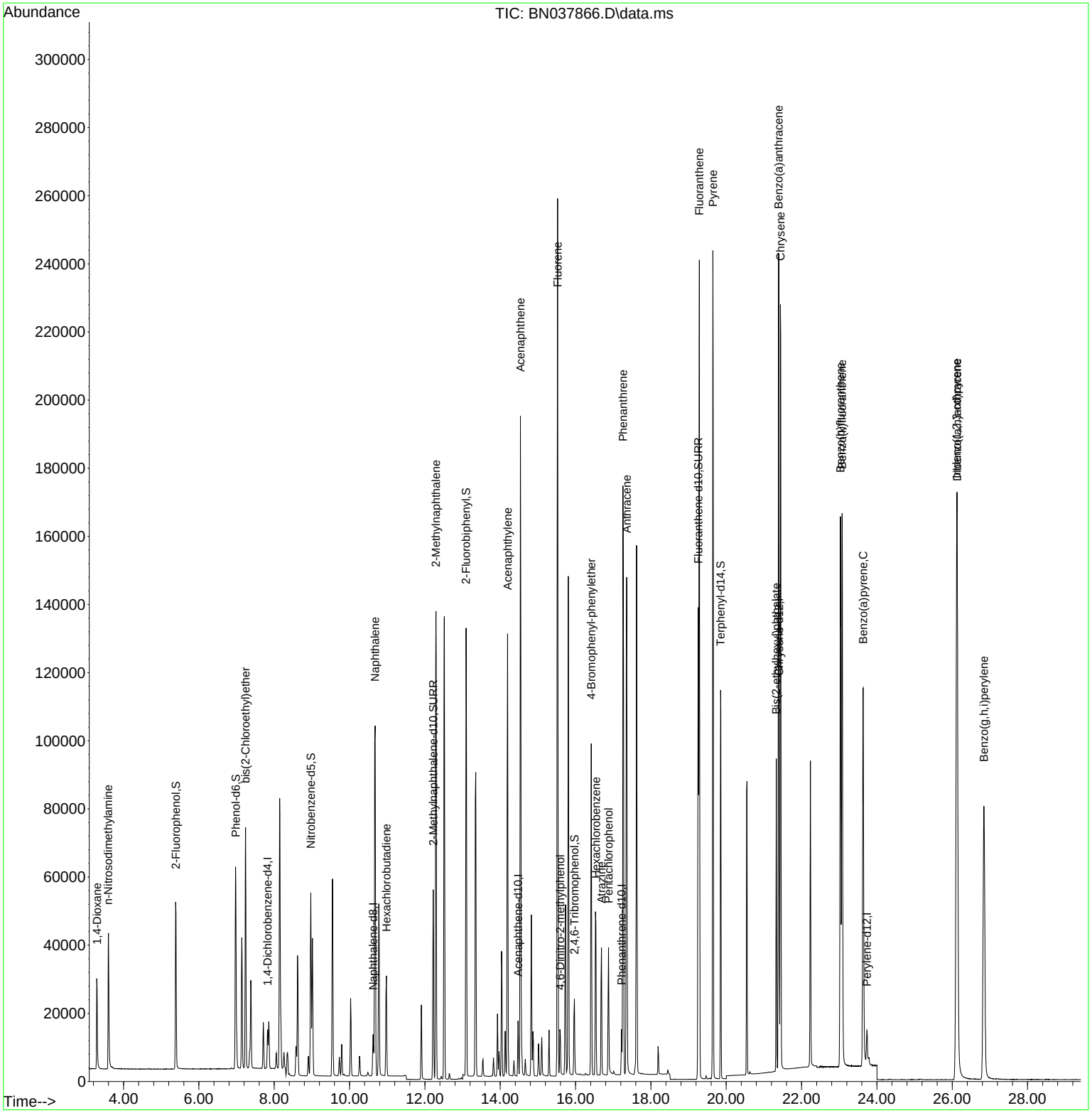
(#) = qualifier out of range (m) = manual integration (+) = signals summed

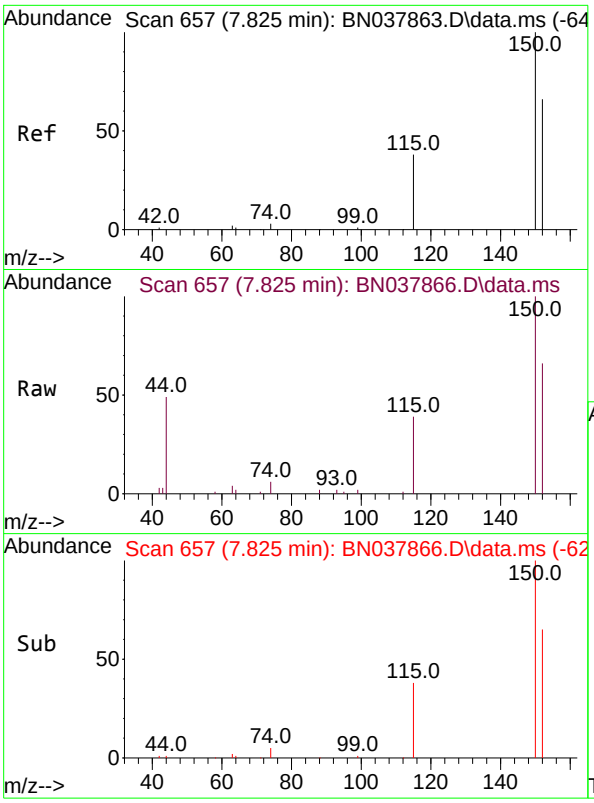
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037866.D
Acq On : 23 Sep 2025 15:15
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Sep 23 16:23:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



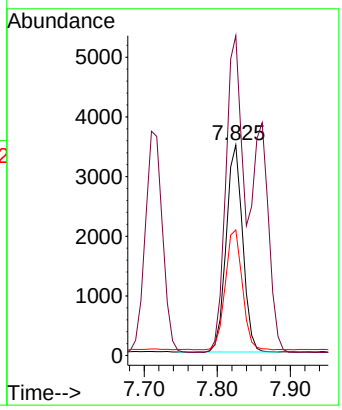


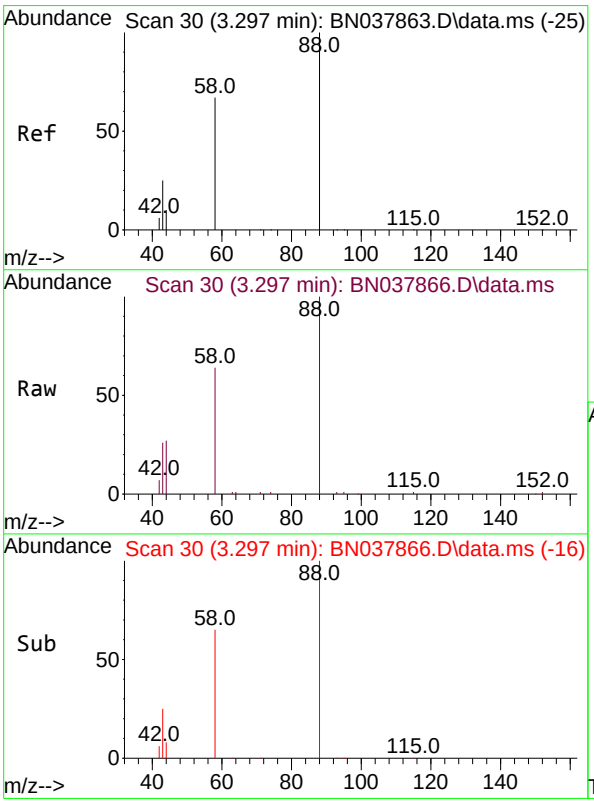
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 5486

Ion	Ratio	Lower	Upper
152	100		
150	151.9	121.0	181.4
115	59.6	47.4	71.0

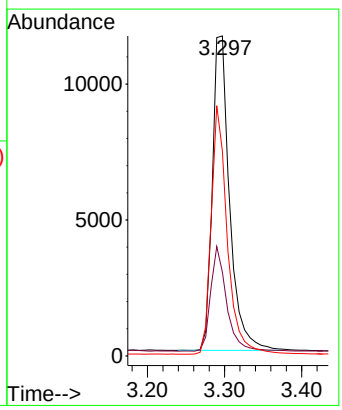


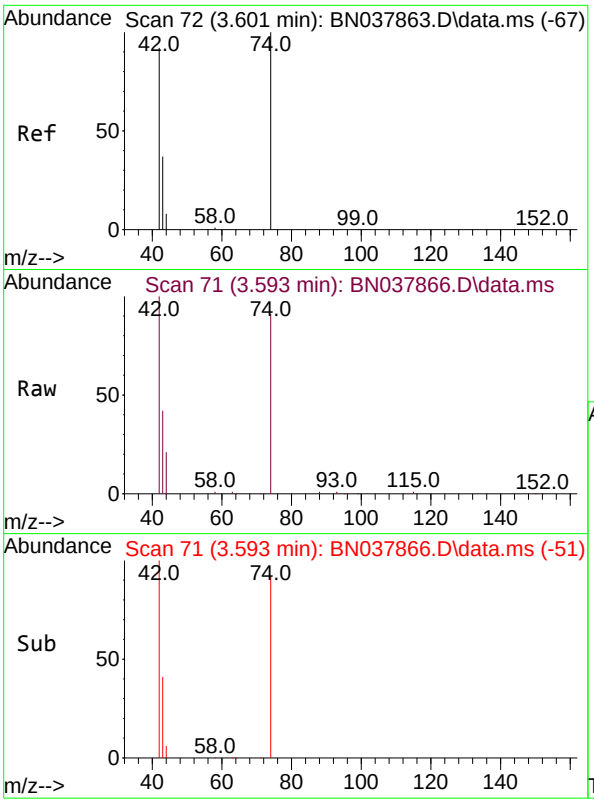


#2
1,4-Dioxane
Concen: 3.234 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion: 88 Resp: 18009

Ion	Ratio	Lower	Upper
88	100		
43	30.7	26.6	39.8
58	73.6	58.9	88.3



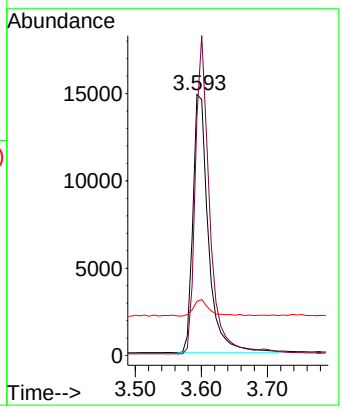


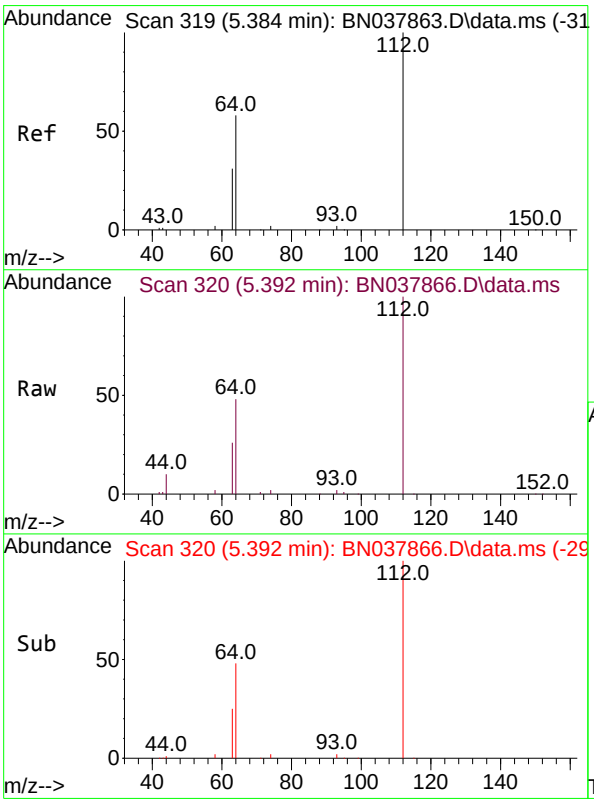
#3
n-Nitrosodimethylamine
Concen: 3.255 ng
RT: 3.593 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 24113

Ion	Ratio	Lower	Upper
42	100		
74	112.5	93.4	140.0
44	6.3	22.2	33.4#

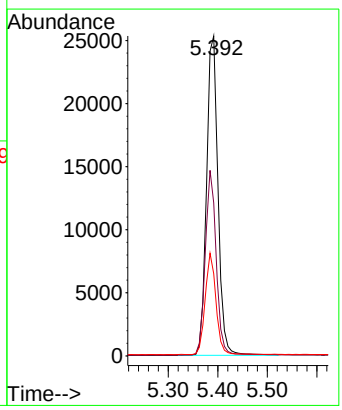


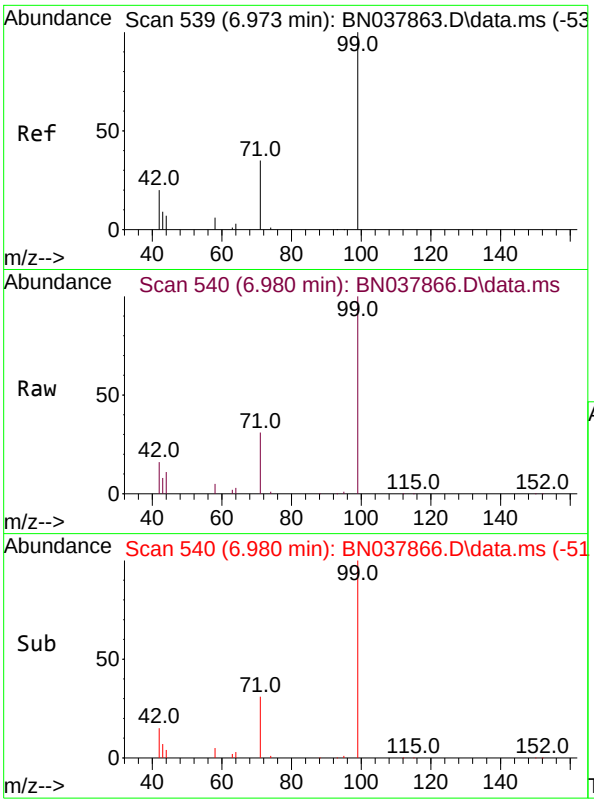


#4
2-Fluorophenol
Concen: 3.237 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:112 Resp: 40521

Ion	Ratio	Lower	Upper
112	100		
64	55.6	44.6	66.8
63	30.1	24.9	37.3



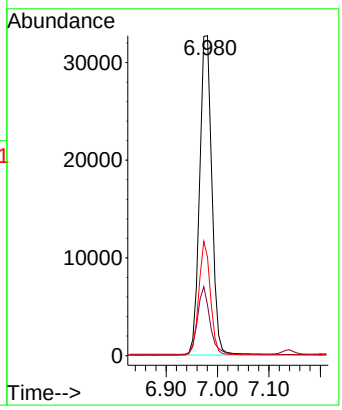


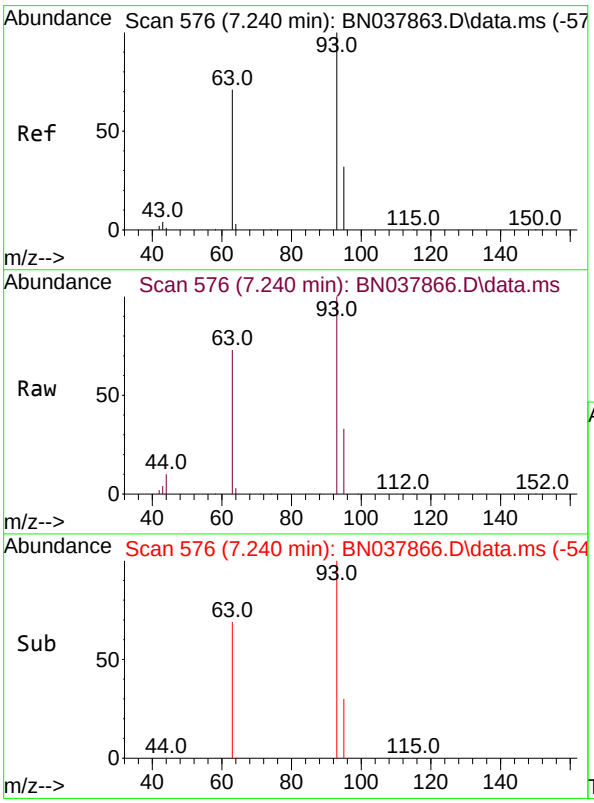
#5
Phenol-d6
Concen: 3.297 ng
RT: 6.980 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 54237

Ion	Ratio	Lower	Upper
99	100		
42	21.2	17.2	25.8
71	33.7	27.3	40.9

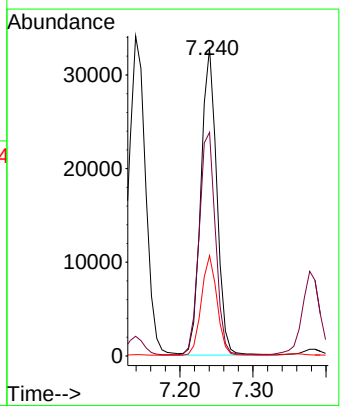


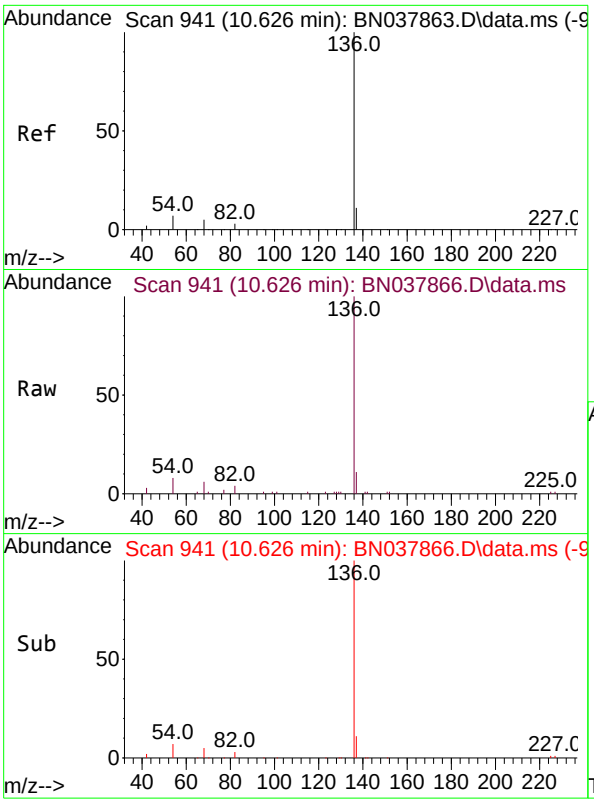


#6
bis(2-Chloroethyl)ether
Concen: 3.230 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion: 93 Resp: 49318

Ion	Ratio	Lower	Upper
93	100		
63	74.8	60.1	90.1
95	32.1	25.4	38.2



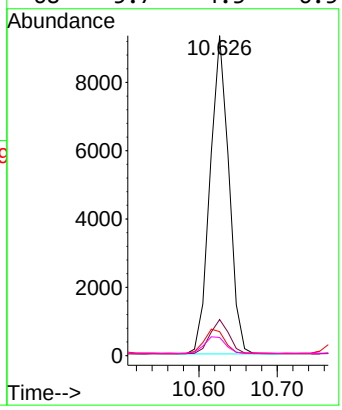


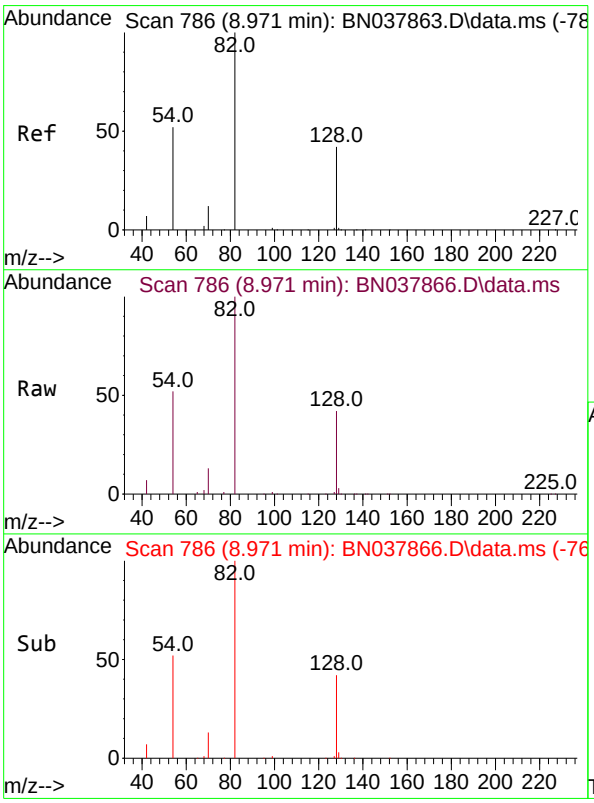
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 15583

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.5	5.8	8.8
68	5.7	4.3	6.5

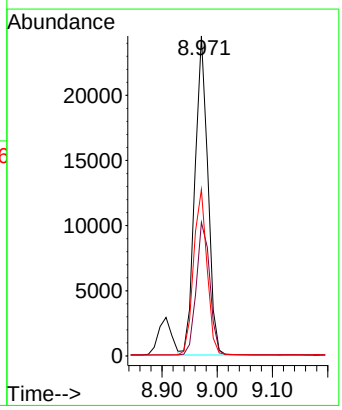


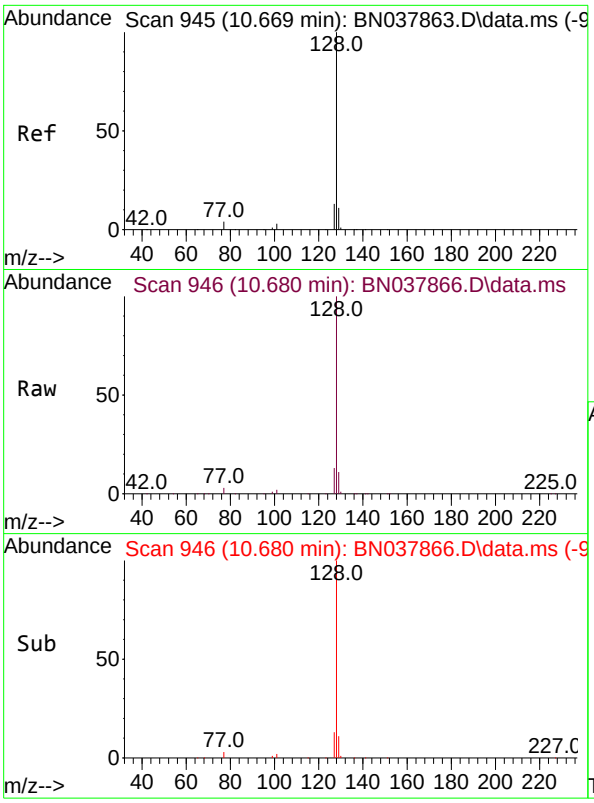


#8
Nitrobenzene-d5
Concen: 3.353 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion: 82 Resp: 39859

Ion	Ratio	Lower	Upper
82	100		
128	41.7	34.8	52.2
54	52.0	42.2	63.2



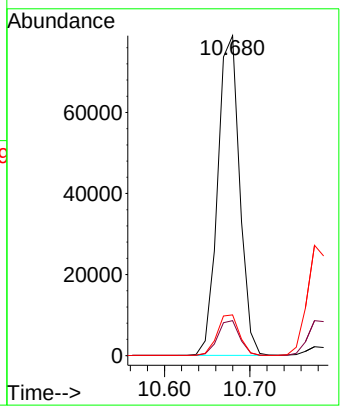


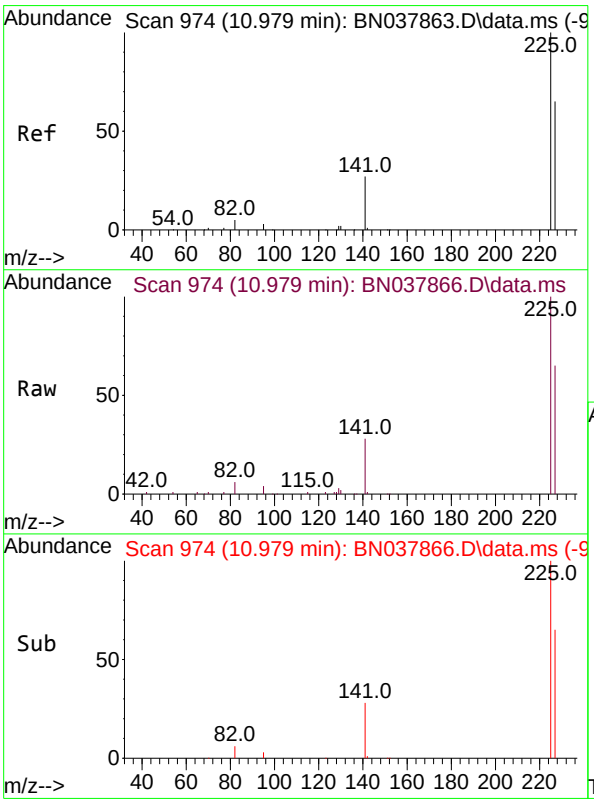
#9
Naphthalene
Concen: 3.301 ng
RT: 10.680 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 141732

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.2	13.8
127	12.7	11.0	16.6

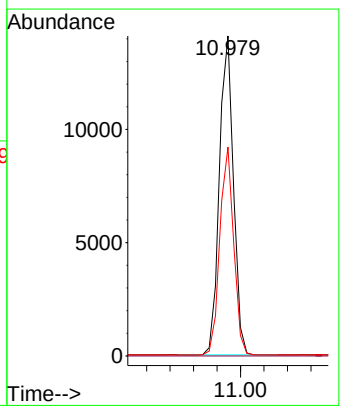


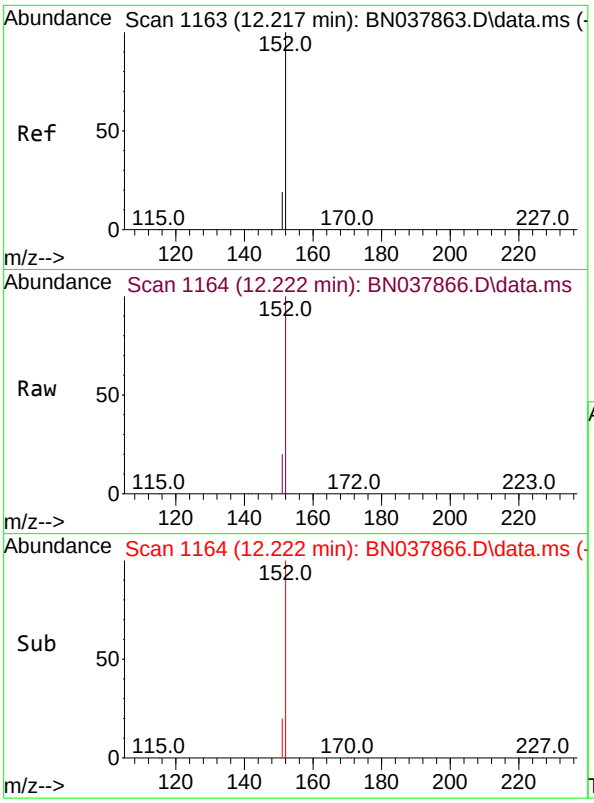


#10
Hexachlorobutadiene
Concen: 3.208 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:225 Resp: 23493

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.4	77.2



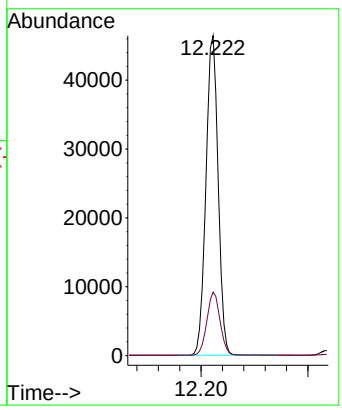


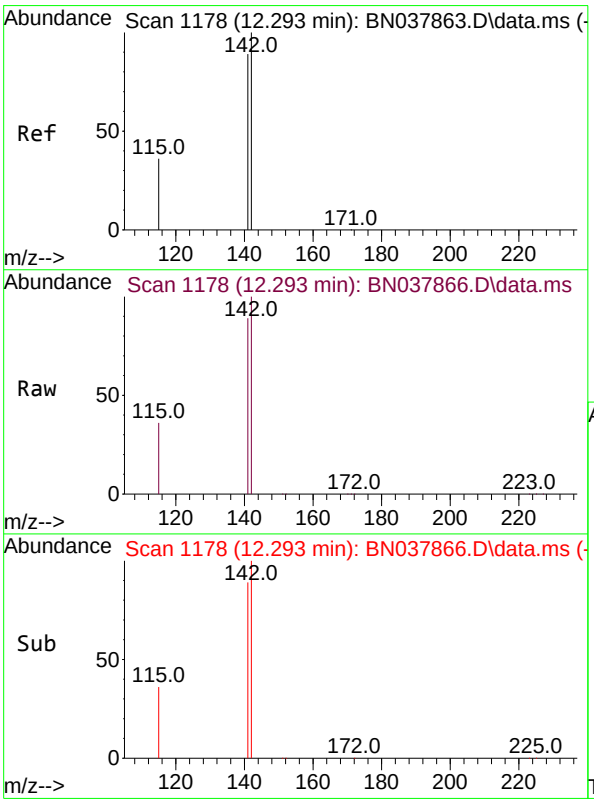
#11
2-Methylnaphthalene-d10
Concen: 3.382 ng
RT: 12.222 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 73211

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.4	26.2

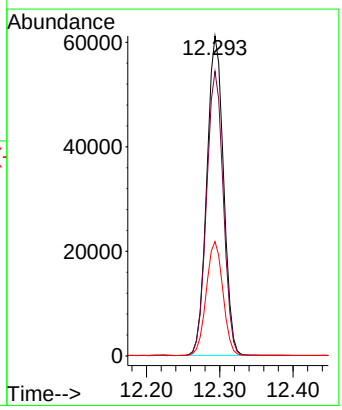


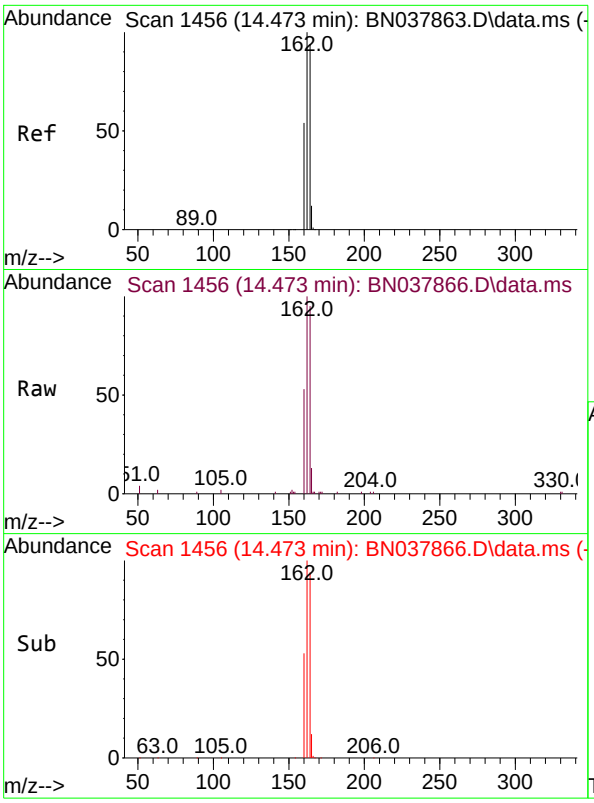


#12
2-Methylnaphthalene
Concen: 3.447 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:142 Resp: 96667

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.2	106.8
115	35.7	29.7	44.5



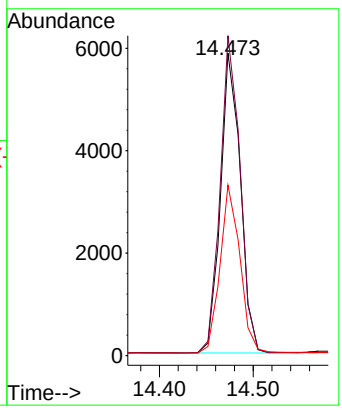


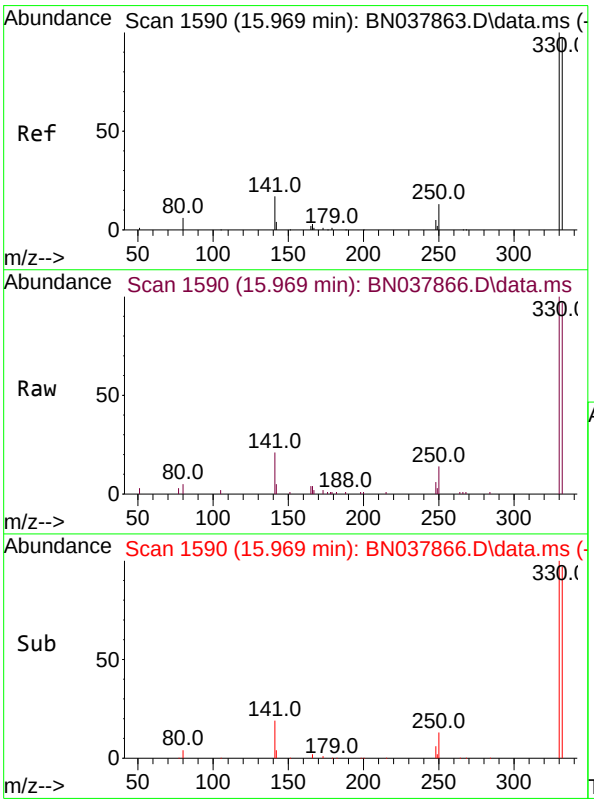
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 8623

Ion	Ratio	Lower	Upper
164	100		
162	105.8	84.8	127.2
160	56.4	46.1	69.1

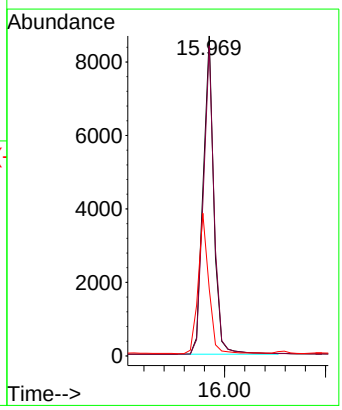


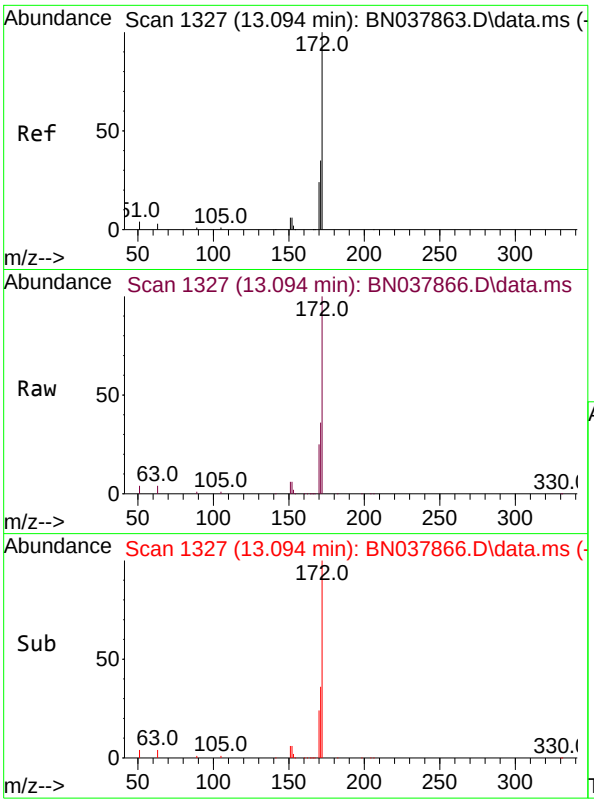


#14
2,4,6-Tribromophenol
Concen: 3.642 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:330 Resp: 12677

Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.2	115.8
141	44.0	37.2	55.8



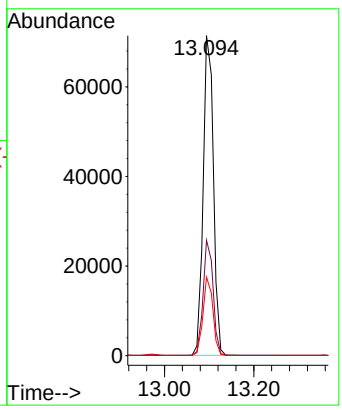


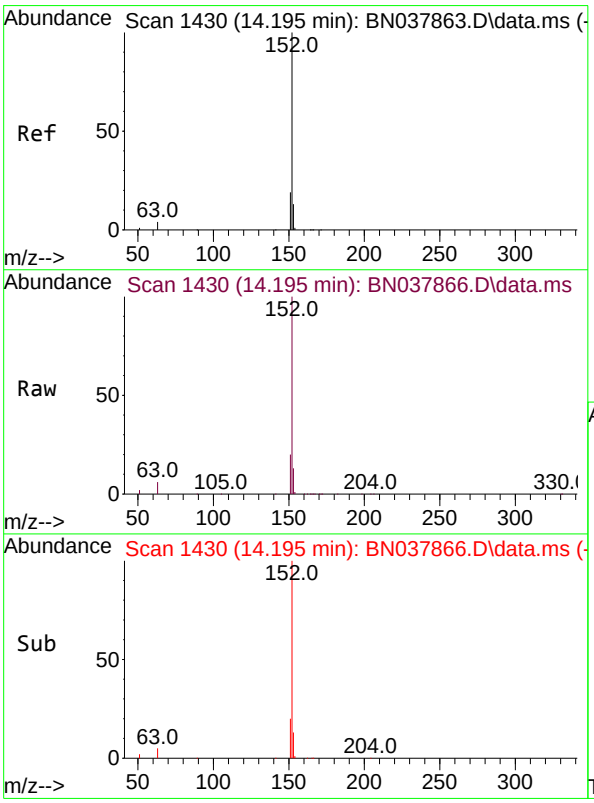
#15
2-Fluorobiphenyl
Concen: 3.223 ng
RT: 13.094 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 113791

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.6	43.0
170	24.6	19.7	29.5

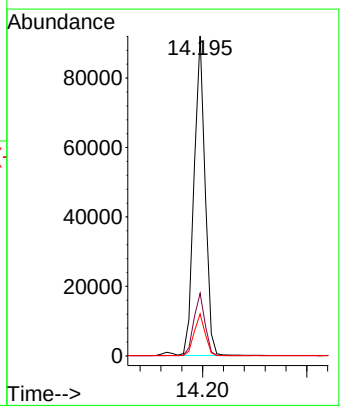


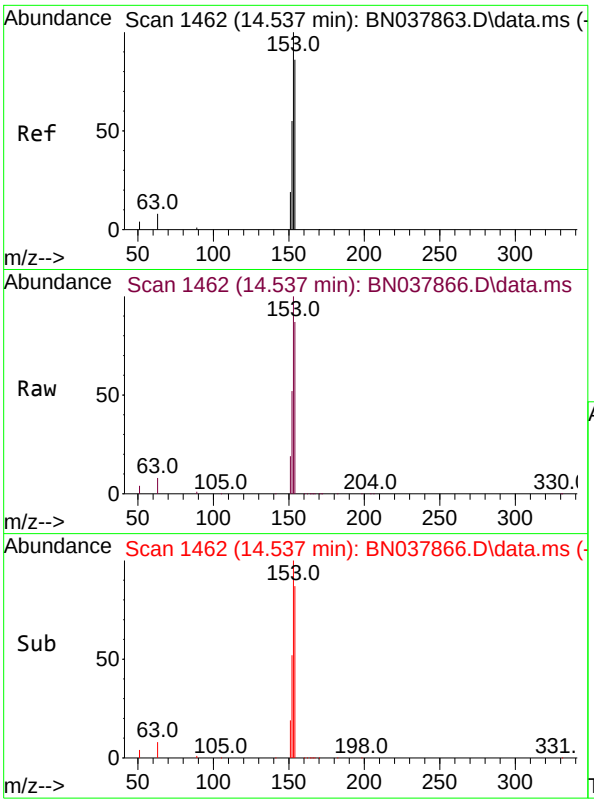


#16
Acenaphthylene
Concen: 3.437 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:152 Resp: 134565

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.8
153	13.0	10.5	15.7



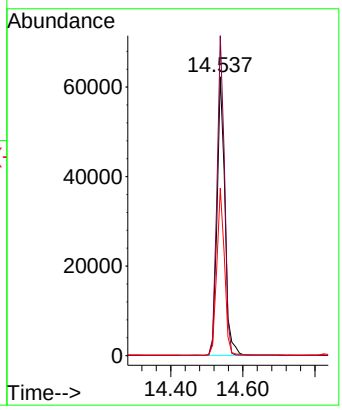


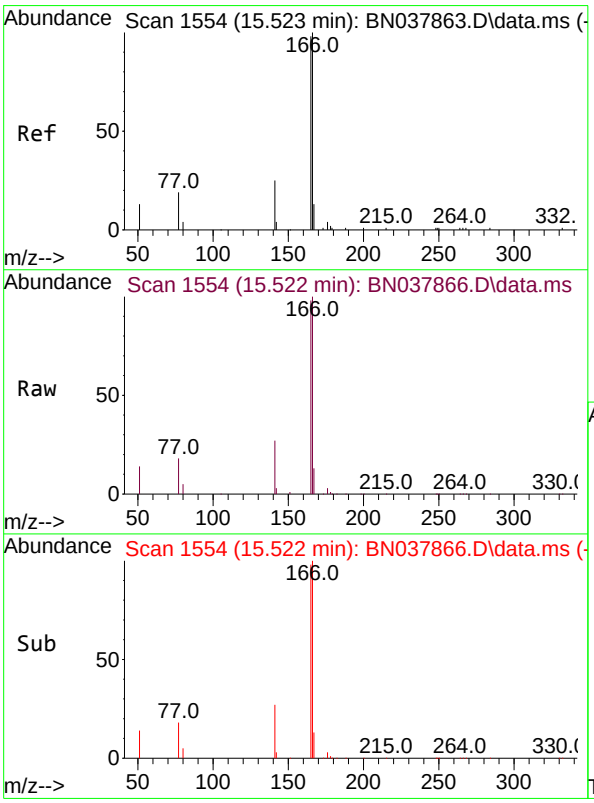
#17
Acenaphthene
Concen: 3.392 ng
RT: 14.537 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 94611

Ion	Ratio	Lower	Upper
154	100		
153	109.6	90.5	135.7
152	58.7	51.8	77.8

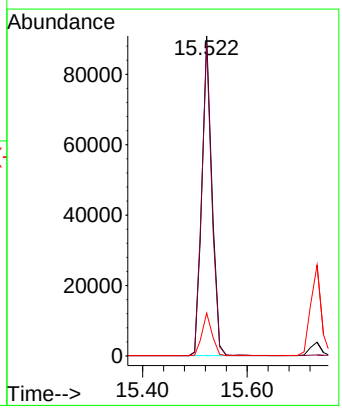


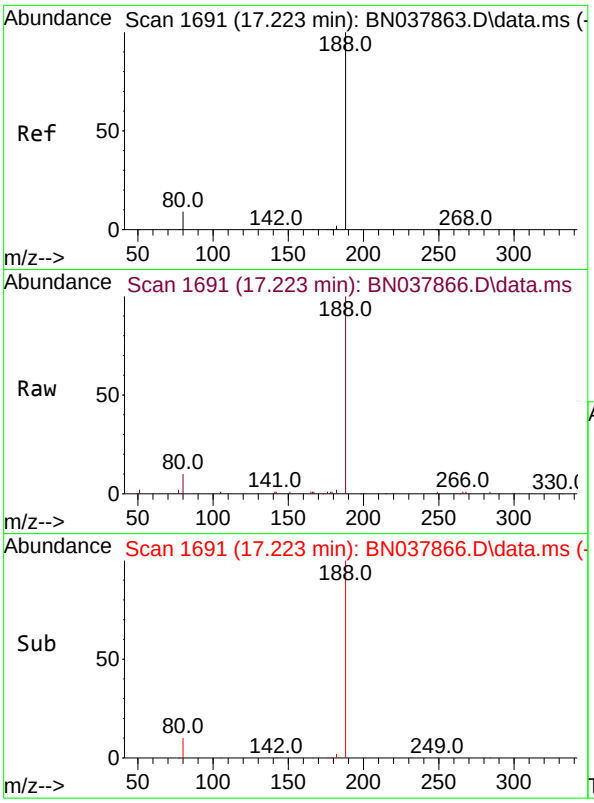


#18
Fluorene
Concen: 3.511 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:166 Resp: 118468

Ion	Ratio	Lower	Upper
166	100		
165	98.2	79.0	118.4
167	13.1	10.6	16.0



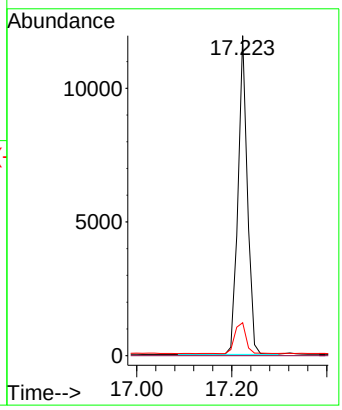


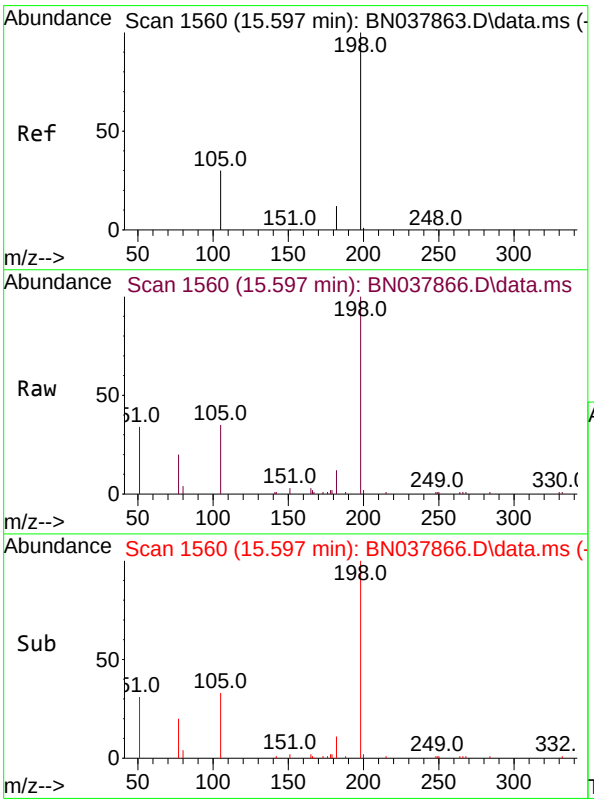
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 16225

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.3	7.6	11.4

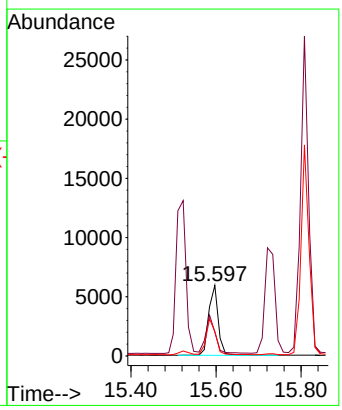


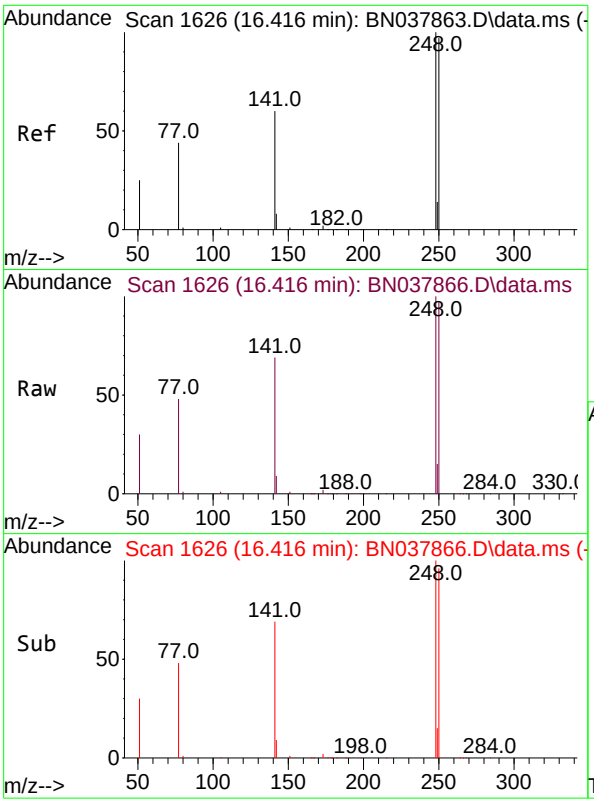


#20
4,6-Dinitro-2-methylphenol
Concen: 3.211 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:198 Resp: 9172

Ion	Ratio	Lower	Upper
198	100		
51	33.8	59.1	88.7#
105	34.5	41.3	61.9#



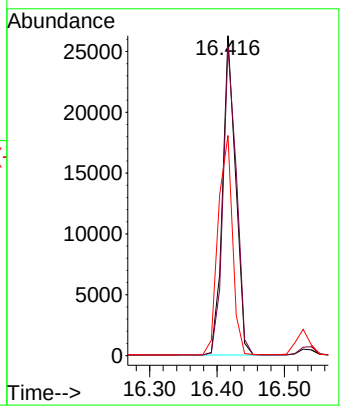


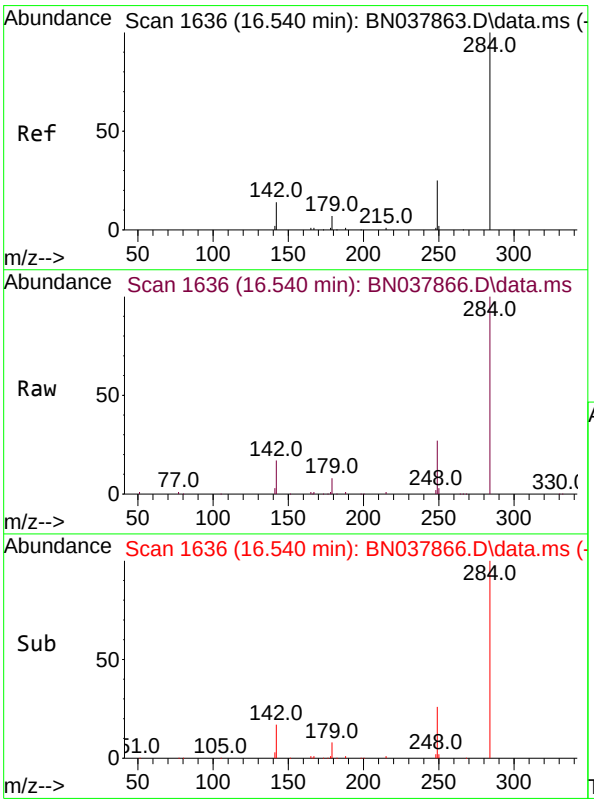
#21
4-Bromophenyl-phenylether
Concen: 3.370 ng
RT: 16.416 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 35637

Ion	Ratio	Lower	Upper
248	100		
250	96.5	77.6	116.4
141	68.8	48.8	73.2

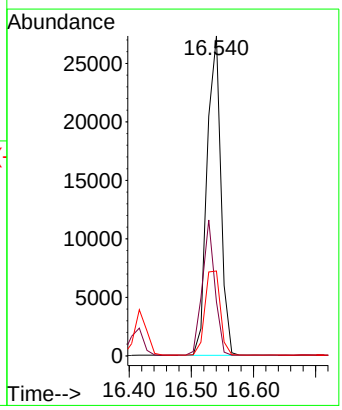


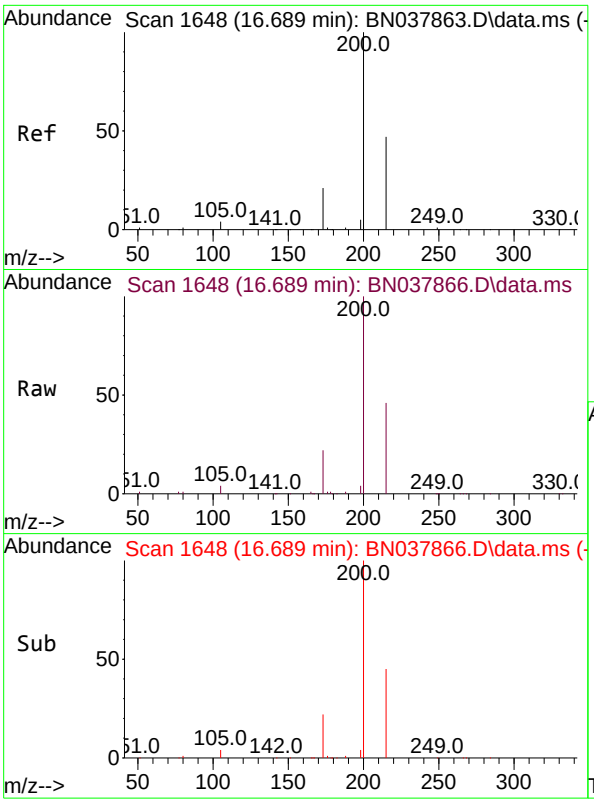


#22
Hexachlorobenzene
Concen: 3.269 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:284 Resp: 41902

Ion	Ratio	Lower	Upper
284	100		
142	38.5	30.9	46.3
249	29.5	23.9	35.9



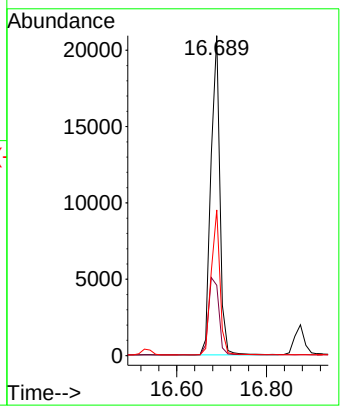


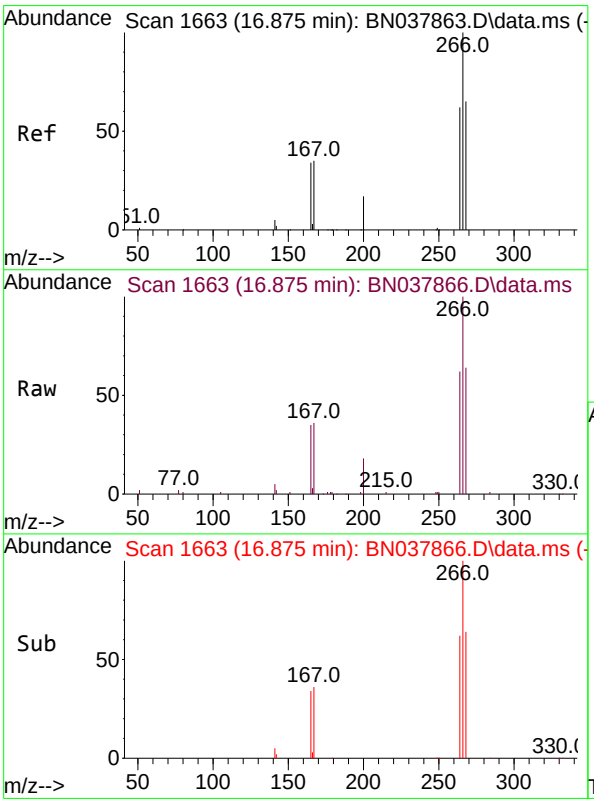
#23
Atrazine
Concen: 3.616 ng
RT: 16.689 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 29112

Ion	Ratio	Lower	Upper
200	100		
173	22.0	18.3	27.5
215	45.5	38.6	58.0

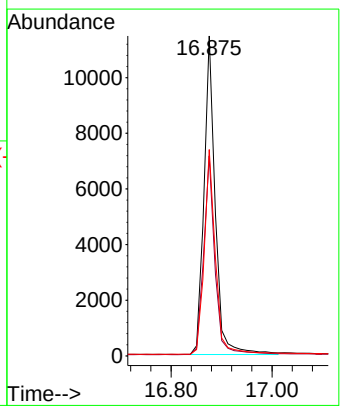


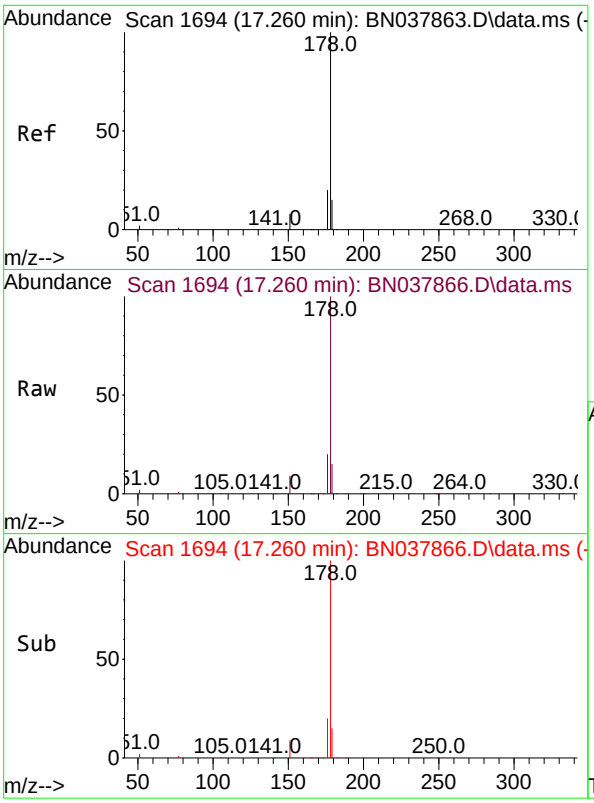


#24
Pentachlorophenol
Concen: 4.011 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:266 Resp: 17645

Ion	Ratio	Lower	Upper
266	100		
264	62.5	50.9	76.3
268	64.0	54.3	81.5



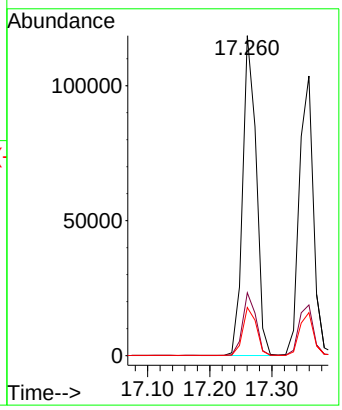


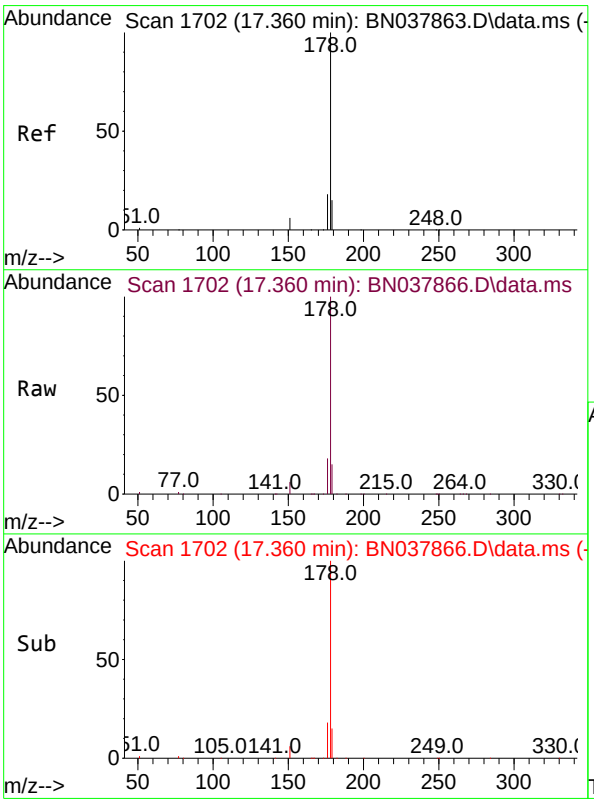
#25
Phenanthrene
Concen: 3.352 ng
RT: 17.260 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 178985

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.7	23.5
179	15.1	12.3	18.5

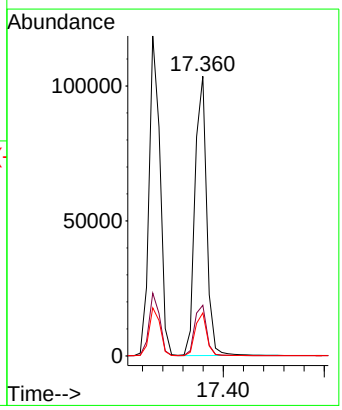


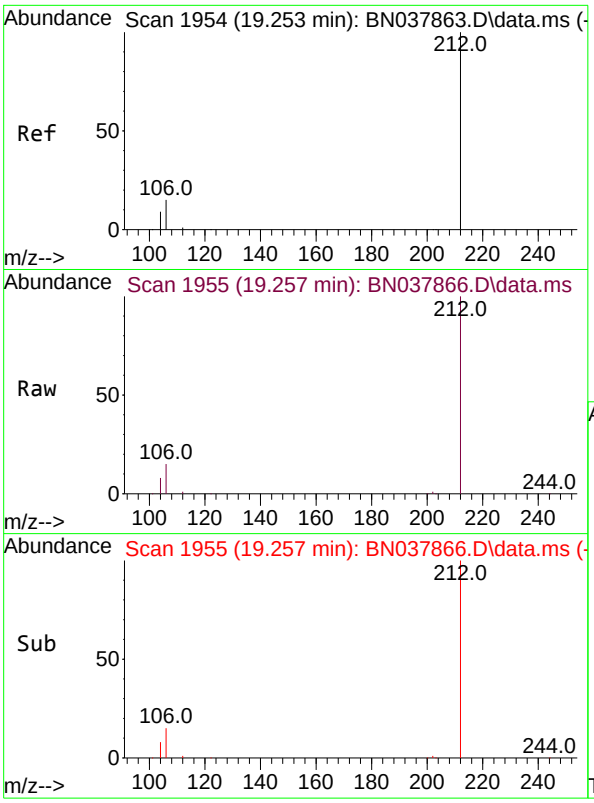


#26
Anthracene
Concen: 3.573 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:178 Resp: 165527

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.4
179	15.2	12.3	18.5



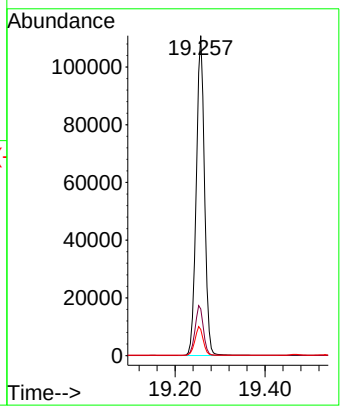


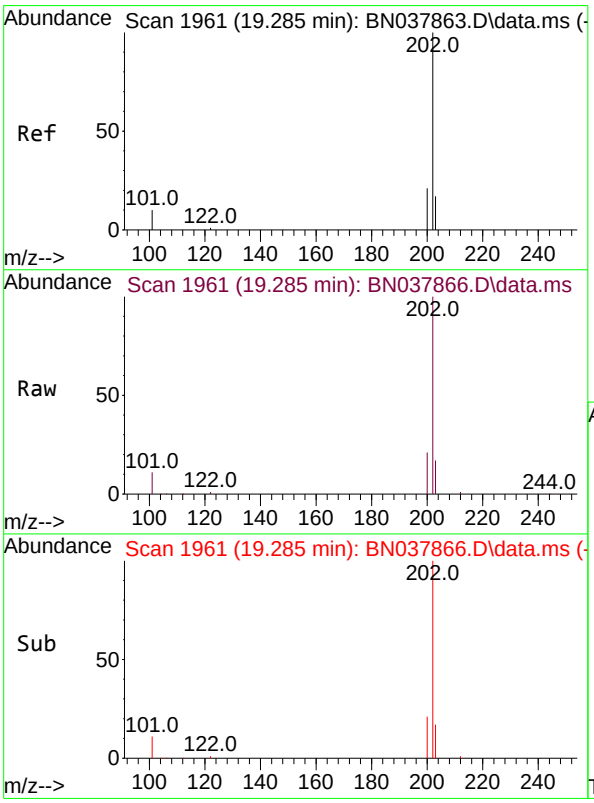
#27
Fluoranthene-d10
Concen: 3.451 ng
RT: 19.257 min Scan# 19
Delta R.T. 0.005 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 140845

Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.6	19.0
104	9.0	7.4	11.0

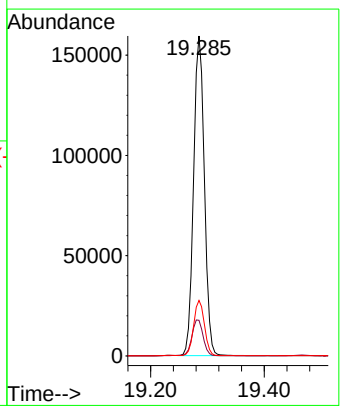


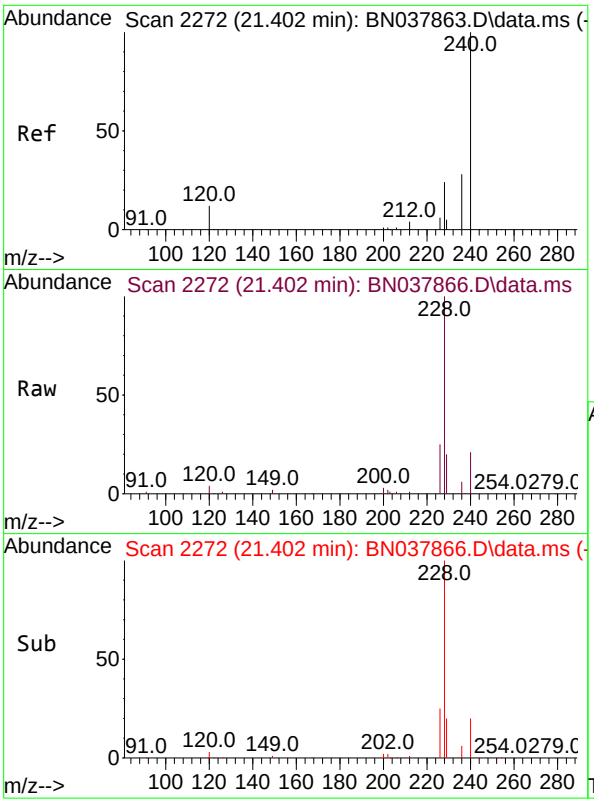


#28
Fluoranthene
Concen: 3.570 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:202 Resp: 209920

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	17.3	13.6	20.4



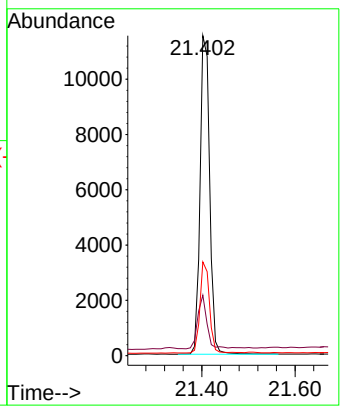


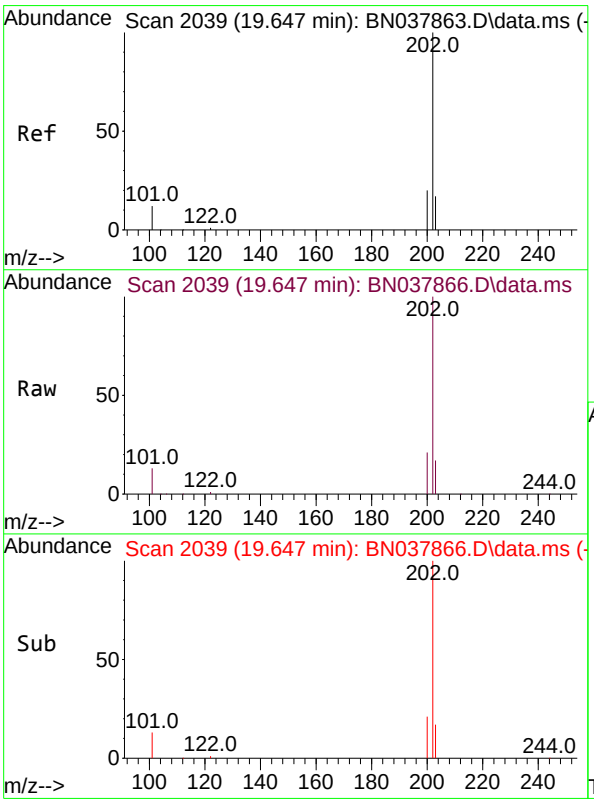
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 16309

Ion	Ratio	Lower	Upper
240	100		
120	18.9	11.4	17.2#
236	29.3	23.0	34.6

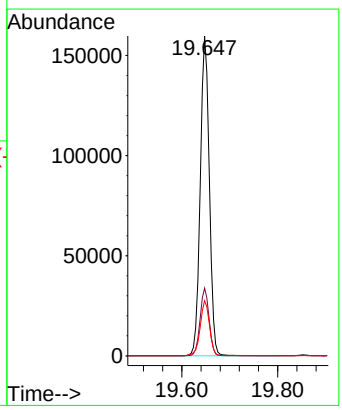


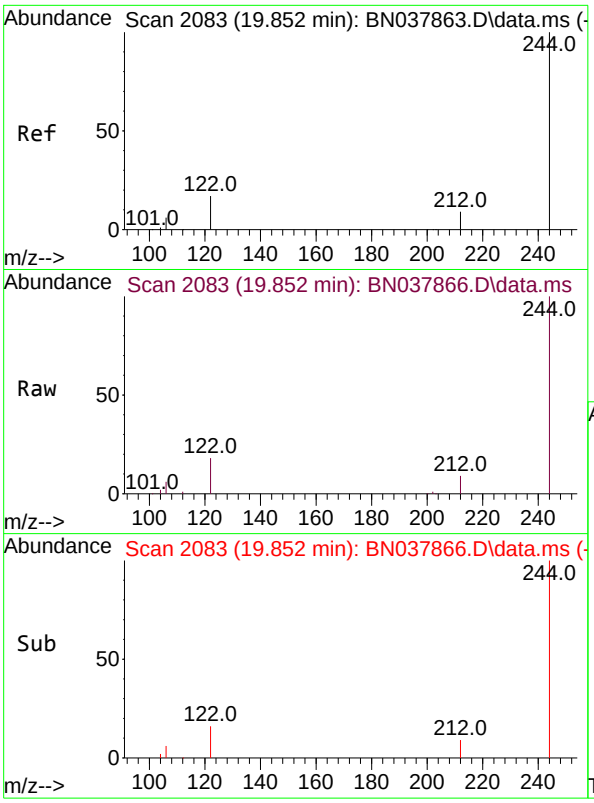


#30
Pyrene
Concen: 3.232 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:202 Resp: 208135

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.7	14.2	21.4



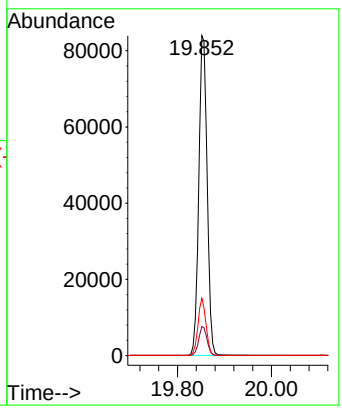


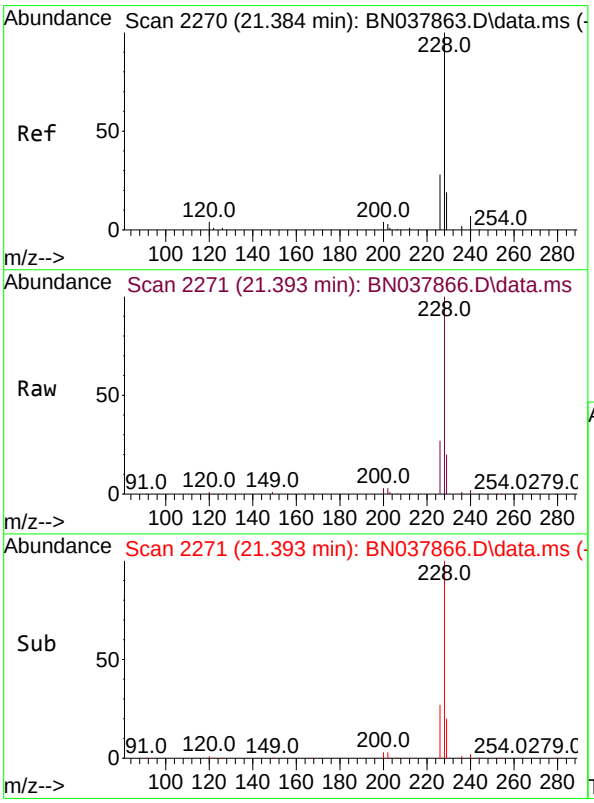
#31
Terphenyl-d14
Concen: 3.250 ng
RT: 19.852 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 105582

Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.6	11.4
122	17.9	13.9	20.9

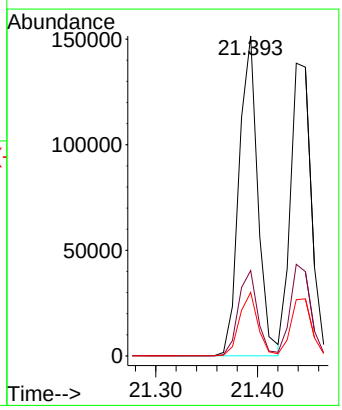


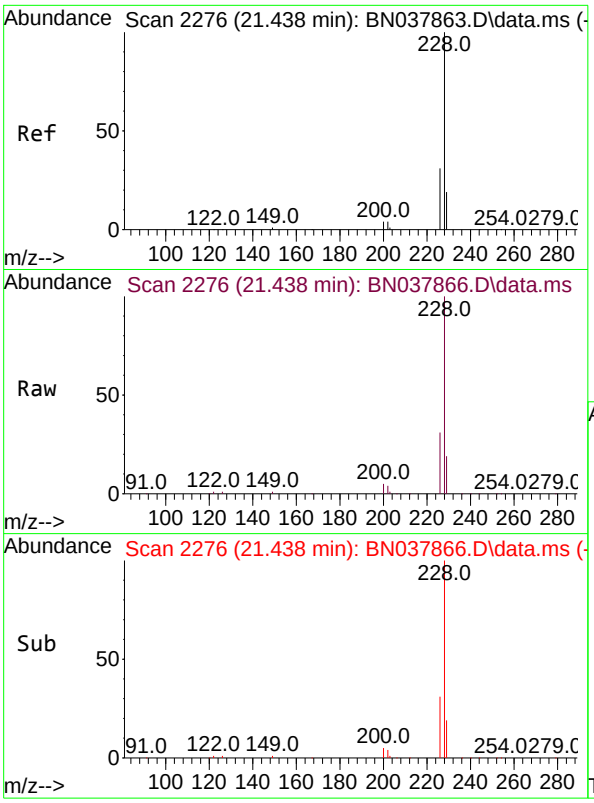


#32
Benzo(a)anthracene
Concen: 3.394 ng
RT: 21.393 min Scan# 2271
Delta R.T. 0.009 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:228 Resp: 193464

Ion	Ratio	Lower	Upper
228	100		
226	26.7	22.6	33.8
229	19.8	15.6	23.4



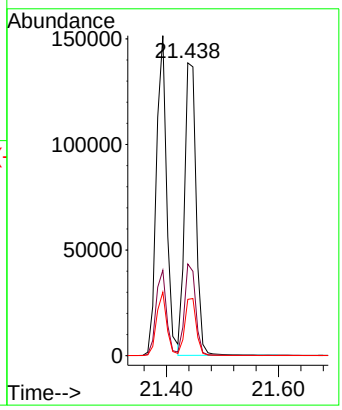


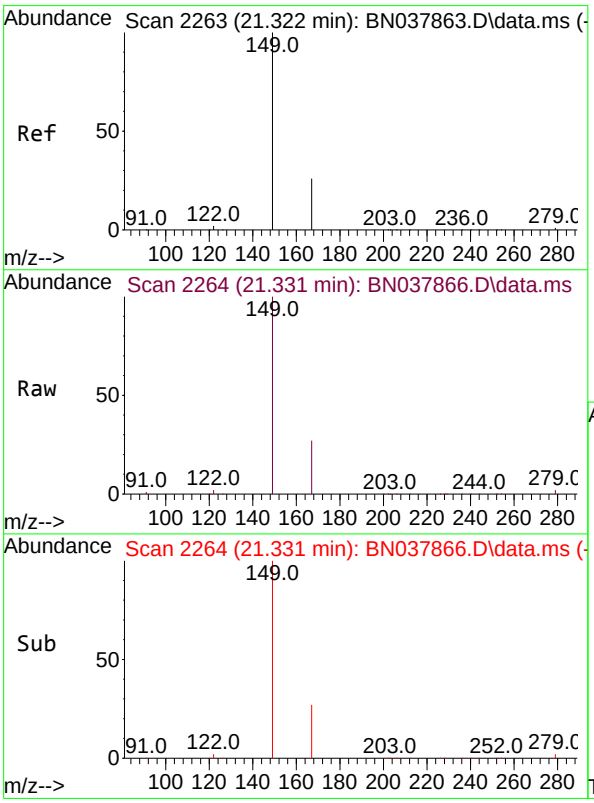
#33
Chrysene
Concen: 3.201 ng
RT: 21.438 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 197283

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.6	37.0
229	19.2	15.6	23.4

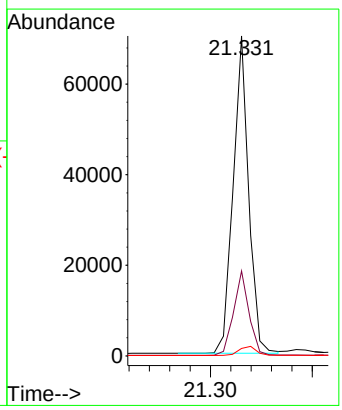


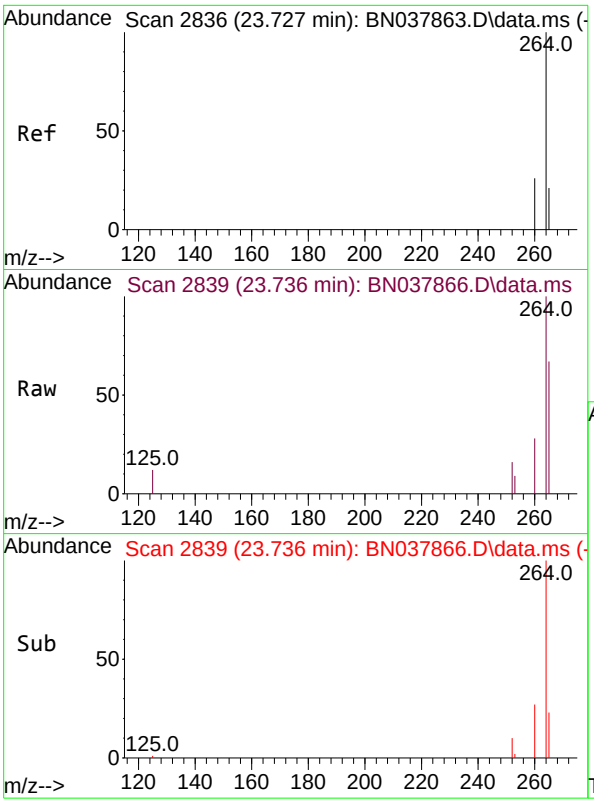


#34
Bis(2-ethylhexyl)phthalate
Concen: 3.291 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.009 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:149 Resp: 74195

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.4	30.6
279	3.2	2.4	3.6



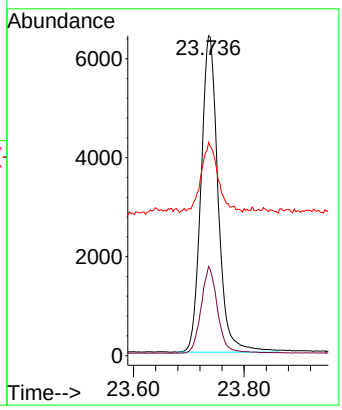


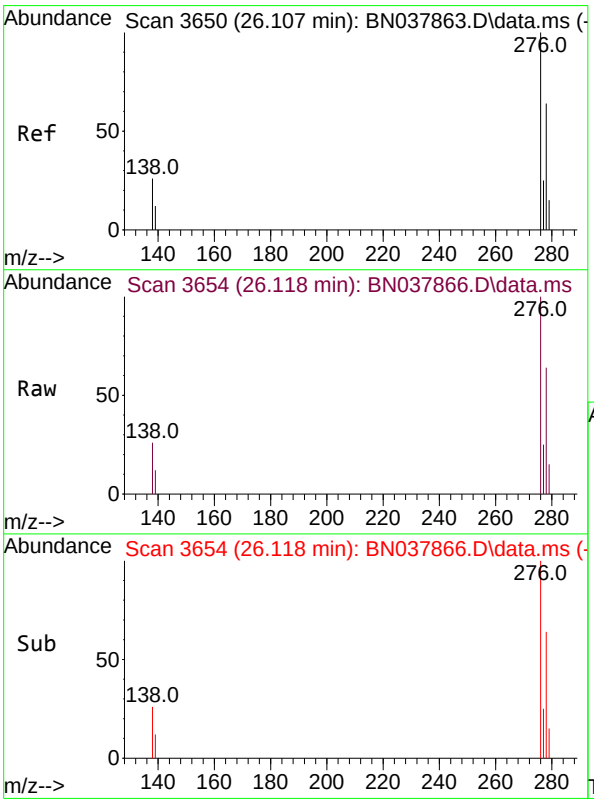
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 28
Delta R.T. 0.009 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 13684

Ion	Ratio	Lower	Upper
264	100		
260	27.8	21.5	32.3
265	66.7	53.8	80.6

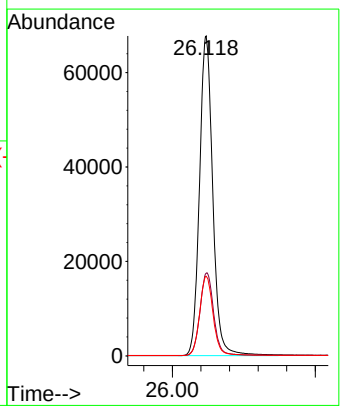


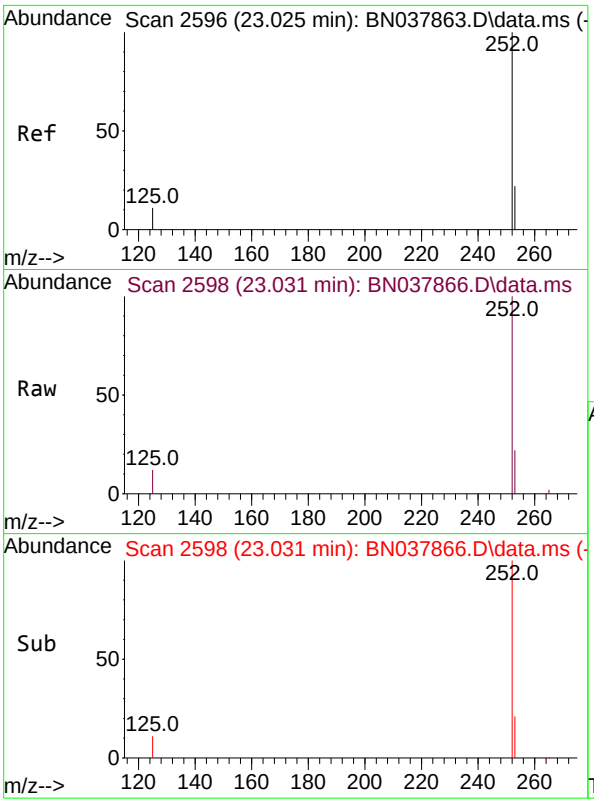


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.494 ng
RT: 26.118 min Scan# 3654
Delta R.T. 0.012 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:276 Resp: 218487

Ion	Ratio	Lower	Upper
276	100		
138	26.7	21.4	32.0
277	25.1	20.3	30.5



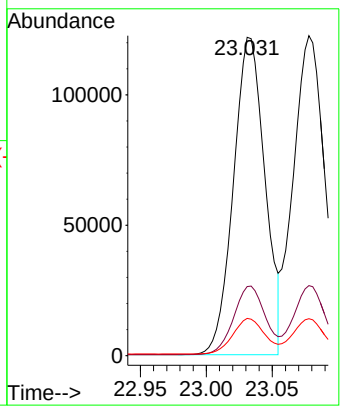


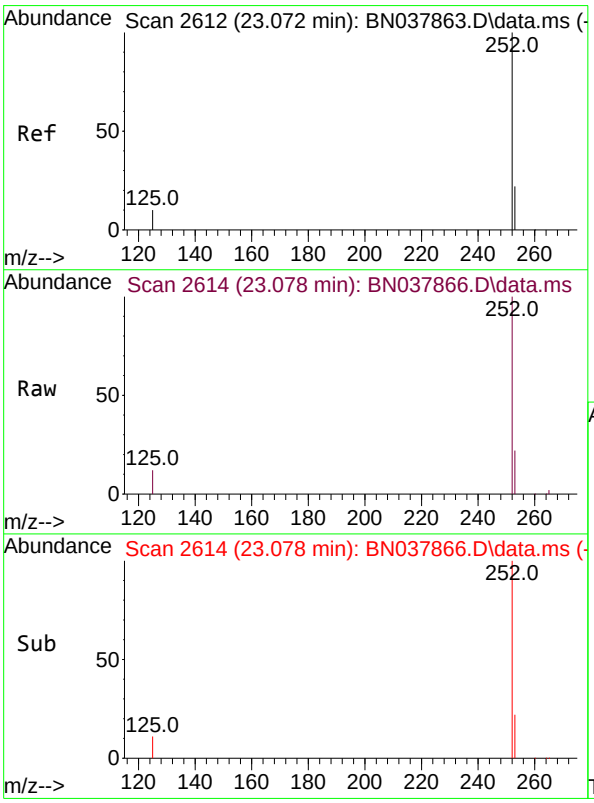
#37
Benzo(b)fluoranthene
Concen: 3.428 ng
RT: 23.031 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 202282

Ion	Ratio	Lower	Upper
252	100		
253	21.7	19.4	29.0
125	11.7	13.0	19.4#

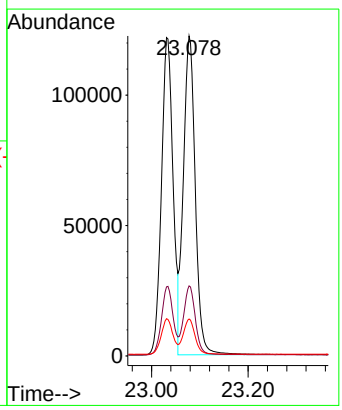


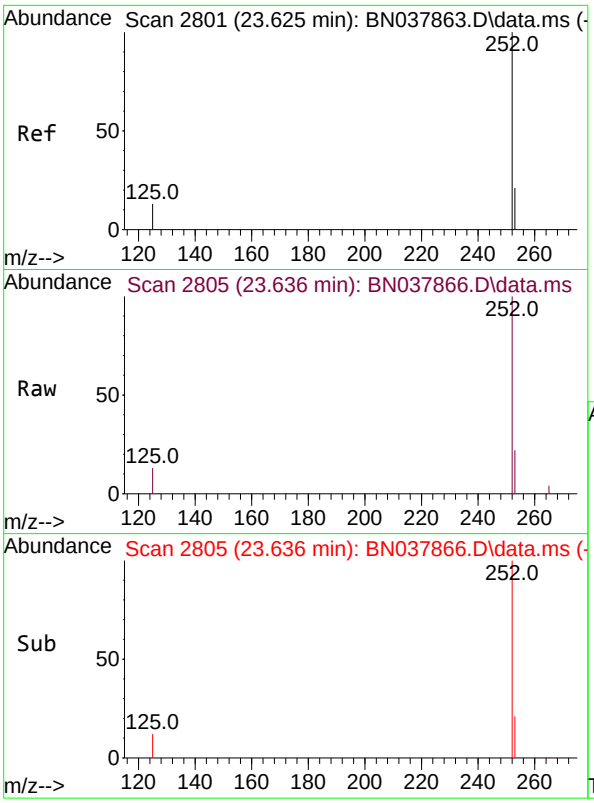


#38
Benzo(k)fluoranthene
Concen: 3.534 ng
RT: 23.078 min Scan# 2614
Delta R.T. 0.006 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:252 Resp: 209819

Ion	Ratio	Lower	Upper
252	100		
253	21.9	19.5	29.3
125	11.5	13.0	19.4#



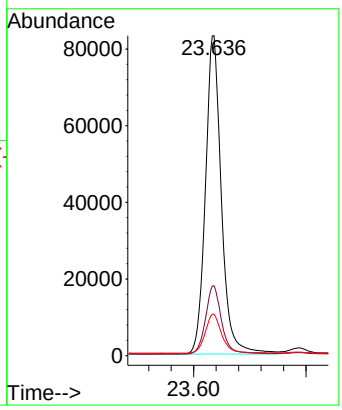


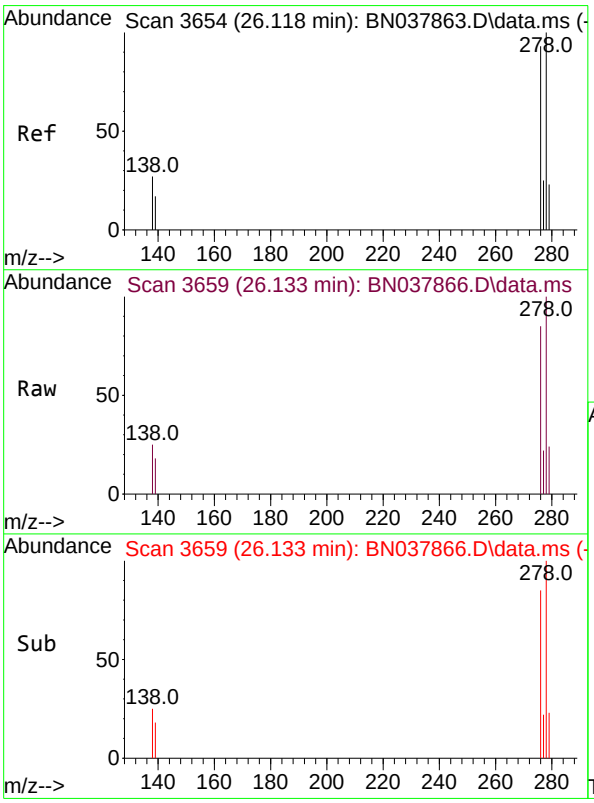
#39
Benzo(a)pyrene
Concen: 3.499 ng
RT: 23.636 min Scan# 28
Delta R.T. 0.012 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 163321

Ion	Ratio	Lower	Upper
252	100		
253	21.8	20.6	30.8
125	12.9	16.7	25.1#

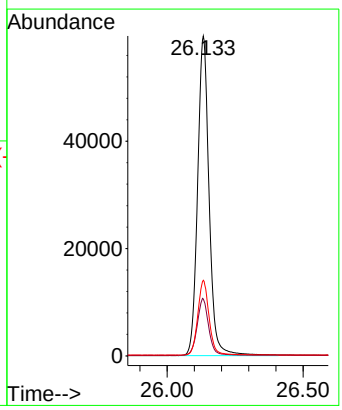


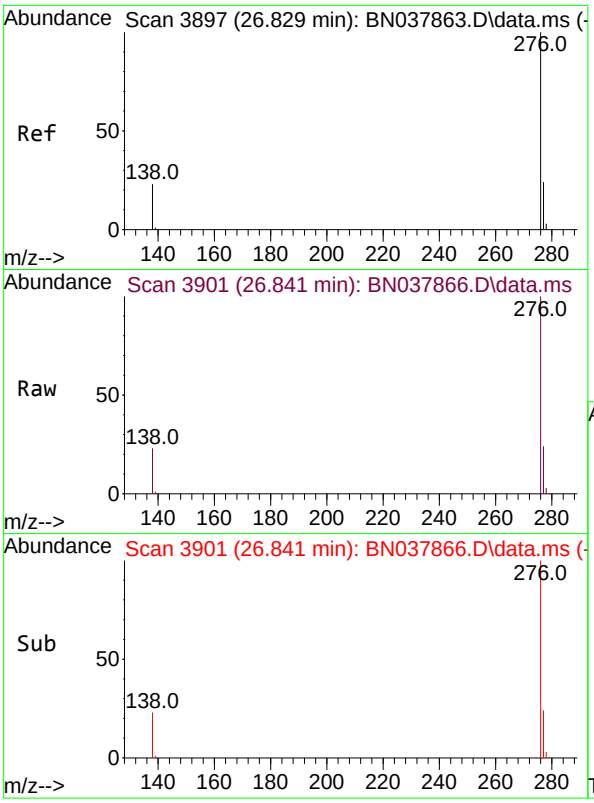


#40
Dibenzo(a,h)anthracene
Concen: 3.558 ng
RT: 26.133 min Scan# 3659
Delta R.T. 0.015 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:278 Resp: 173724

Ion	Ratio	Lower	Upper
278	100		
139	17.8	15.4	23.2
279	23.6	20.8	31.2



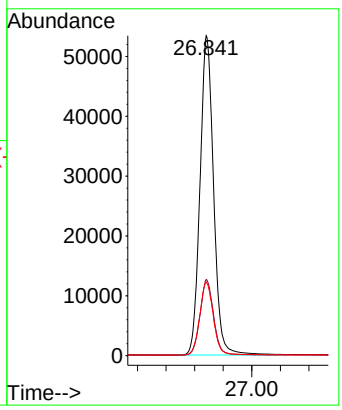


#41
Benzo(g,h,i)perylene
Concen: 3.443 ng
RT: 26.841 min Scan# 3
Delta R.T. 0.012 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 176617

Ion	Ratio	Lower	Upper
276	100		
277	23.8	20.2	30.4
138	23.0	19.8	29.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037867.D
Acq On : 23 Sep 2025 15:51
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Sep 23 16:23:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.825	152	6080	0.400	ng		0.00
7) Naphthalene-d8	10.626	136	17301	0.400	ng		0.00
13) Acenaphthene-d10	14.473	164	9570	0.400	ng		0.00
19) Phenanthrene-d10	17.223	188	17948	0.400	ng		0.00
29) Chrysene-d12	21.411	240	18531	0.400	ng	#	0.00
35) Perylene-d12	23.736	264	15649	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.392	112	75850	5.467	ng		0.00
5) Phenol-d6	6.980	99	102802	5.639	ng		0.00
8) Nitrobenzene-d5	8.971	82	73146	5.543	ng		0.00
11) 2-Methylnaphthalene-d10	12.222	152	154332	6.422	ng		0.00
14) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng		
15) 2-Fluorobiphenyl	13.094	172	210748	5.379	ng		0.00
27) Fluoranthene-d10	19.257	212	307332	6.807	ng		0.00
31) Terphenyl-d14	19.856	244	206917	5.606	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.290	88	28576	4.630	ng		98
3) n-Nitrosodimethylamine	3.593	42	41574	5.063	ng	#	92
6) bis(2-Chloroethyl)ether	7.240	93	86881	5.134	ng		99
9) Naphthalene	10.680	128	250883	5.264	ng		98
10) Hexachlorobutadiene	10.979	225	40670	5.003	ng	#	100
12) 2-Methylnaphthalene	12.293	142	173335	5.567	ng		99
16) Acenaphthylene	14.195	152	250496	5.765	ng		100
17) Acenaphthene	14.537	154	171955	5.554	ng		94
18) Fluorene	15.522	166	209070	5.583	ng		97
20) 4,6-Dinitro-2-methylph...	15.597	198	18771	4.997	ng	#	59
21) 4-Bromophenyl-phenylether	16.416	248	65230	5.577	ng		92
22) Hexachlorobenzene	16.540	284	74475	5.252	ng		99
23) Atrazine	16.689	200	55972	6.284	ng		96
25) Phenanthrene	17.260	178	325691	5.514	ng		99
26) Anthracene	17.359	178	305295	5.958	ng		100
28) Fluoranthene	19.285	202	384292	5.908	ng		99
30) Pyrene	19.647	202	388849	5.315	ng		100
32) Benzo(a)anthracene	21.393	228	362927	5.604	ng		98
33) Chrysene	21.447	228	363421	5.189	ng		99
34) Bis(2-ethylhexyl)phtha...	21.331	149	156492	6.109	ng		98
36) Indeno(1,2,3-cd)pyrene	26.115	276	422337	5.906	ng		99
37) Benzo(b)fluoranthene	23.034	252	387512	5.742	ng	#	93
38) Benzo(k)fluoranthene	23.081	252	376732	5.548	ng	#	92
39) Benzo(a)pyrene	23.636	252	314913	5.900	ng	#	88
40) Dibenzo(a,h)anthracene	26.133	278	333427	5.971	ng		96
41) Benzo(g,h,i)perylene	26.840	276	346868	5.913	ng		96

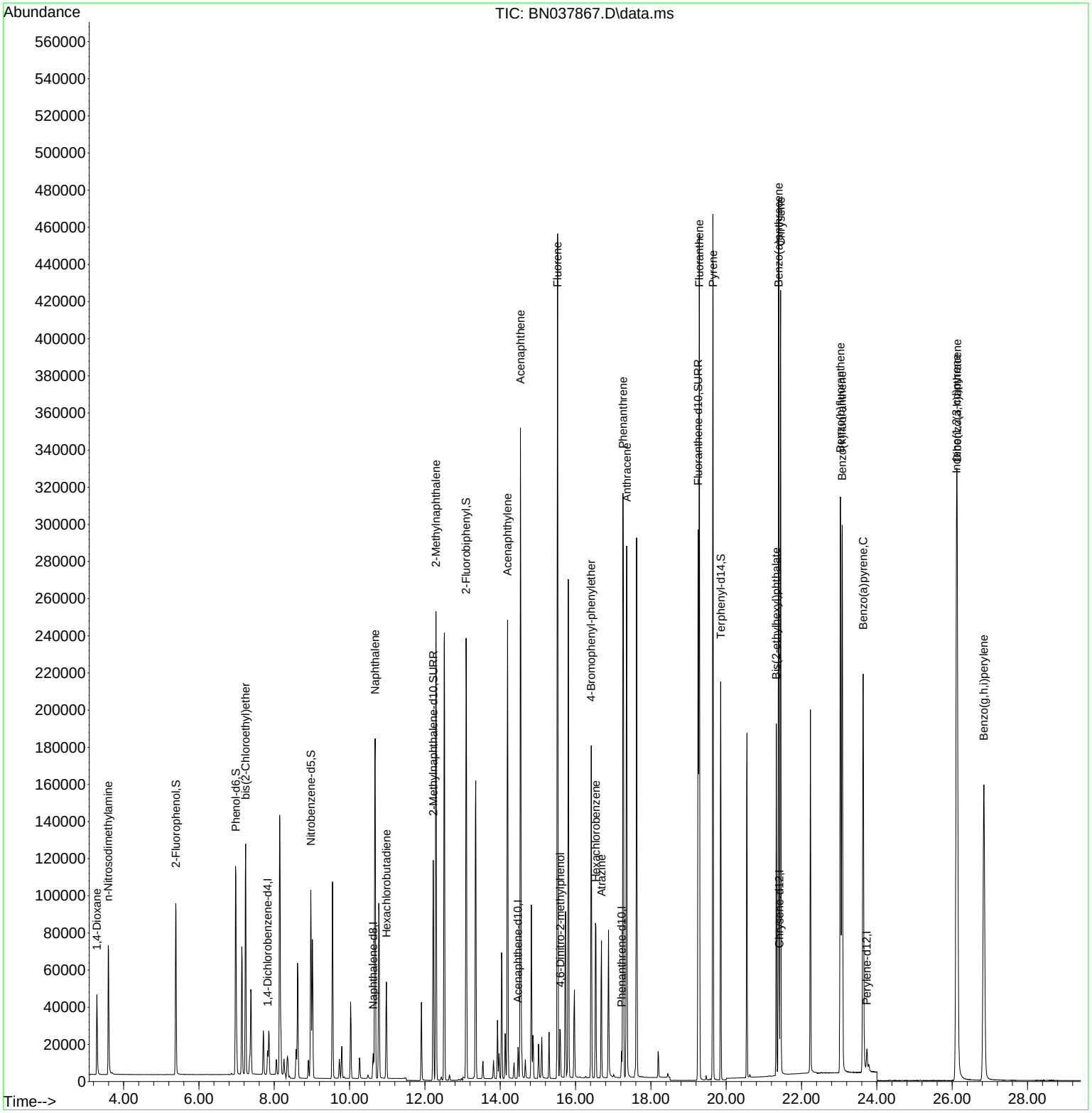
(#) = qualifier out of range (m) = manual integration (+) = signals summed

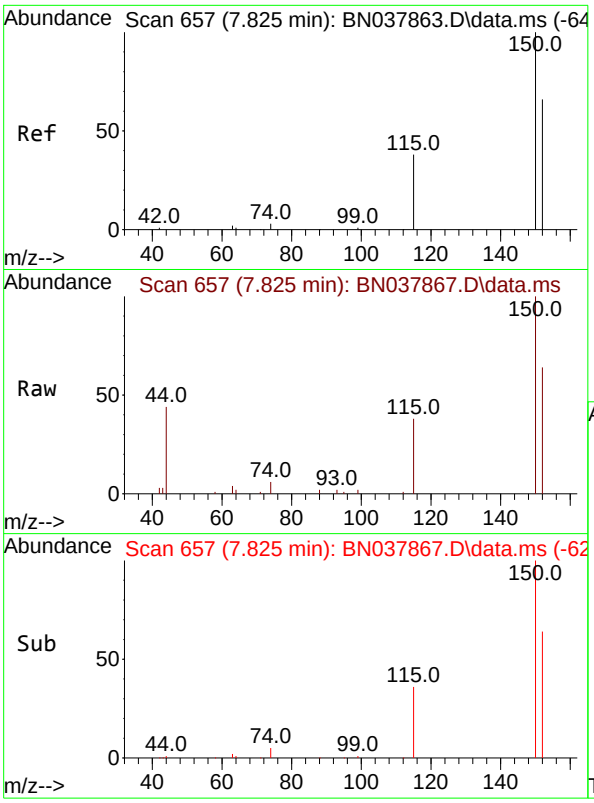
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037867.D
Acq On : 23 Sep 2025 15:51
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Sep 23 16:23:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



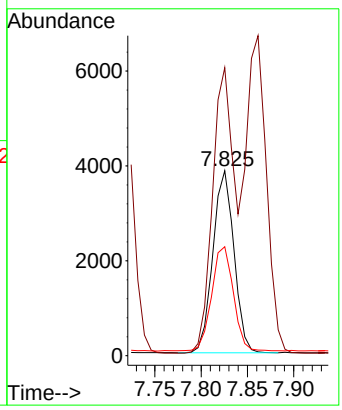


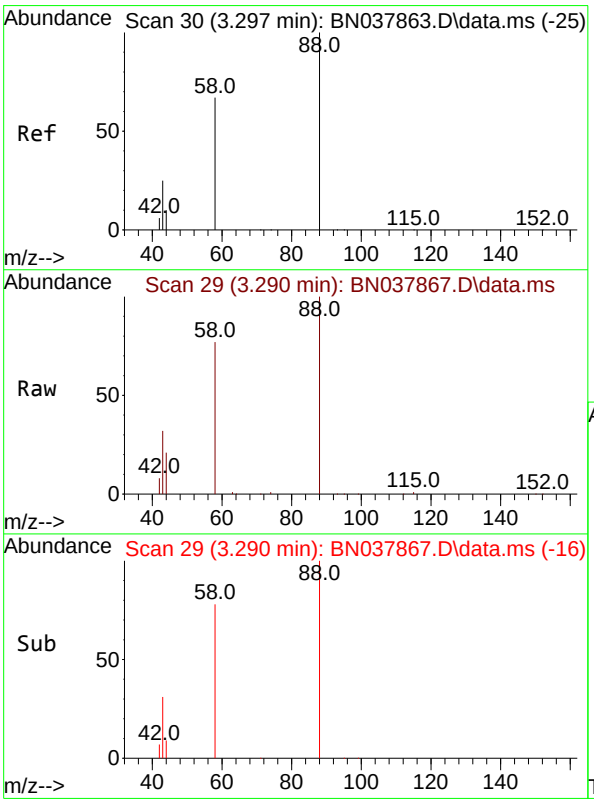
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 6080

Ion	Ratio	Lower	Upper
152	100		
150	155.7	121.0	181.4
115	58.9	47.4	71.0

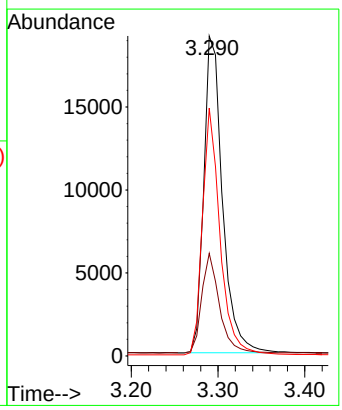


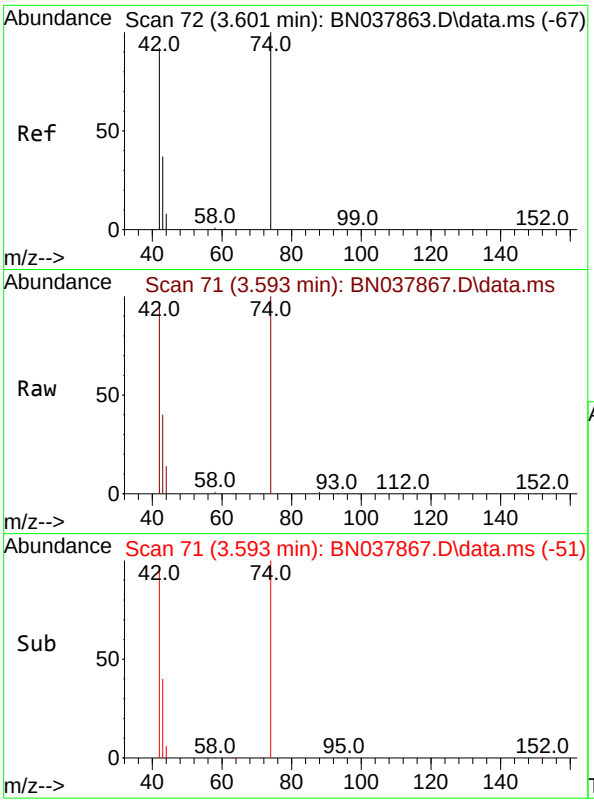


#2
1,4-Dioxane
Concen: 4.630 ng
RT: 3.290 min Scan# 29
Delta R.T. -0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion: 88 Resp: 28576

Ion	Ratio	Lower	Upper
88	100		
43	29.8	26.6	39.8
58	73.3	58.9	88.3



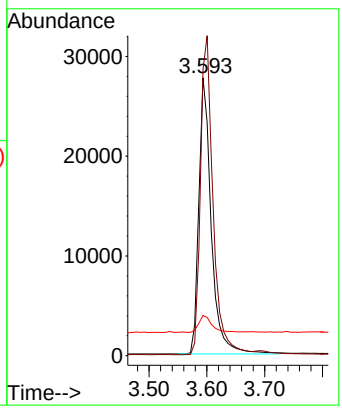


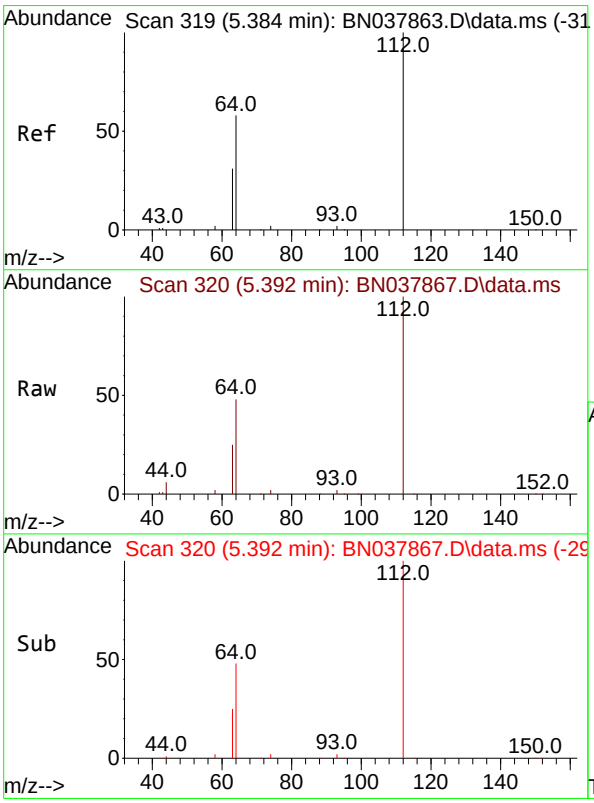
#3
n-Nitrosodimethylamine
Concen: 5.063 ng
RT: 3.593 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 41574

Ion	Ratio	Lower	Upper
42	100		
74	117.0	93.4	140.0
44	6.5	22.2	33.4#

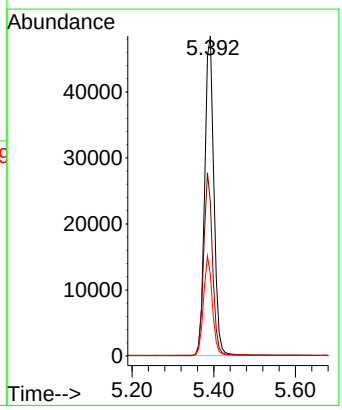


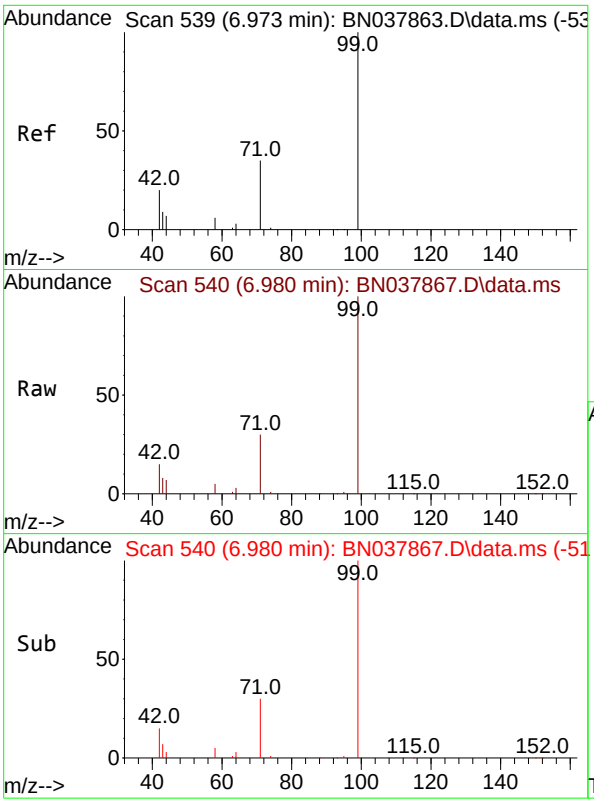


#4
2-Fluorophenol
Concen: 5.467 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:112 Resp: 75850

Ion	Ratio	Lower	Upper
112	100		
64	55.3	44.6	66.8
63	29.7	24.9	37.3



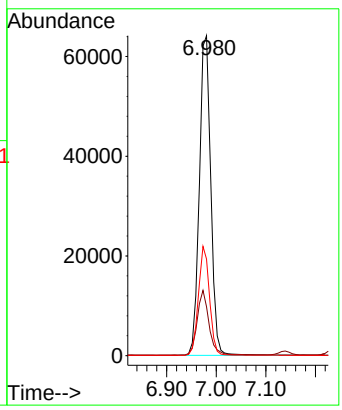


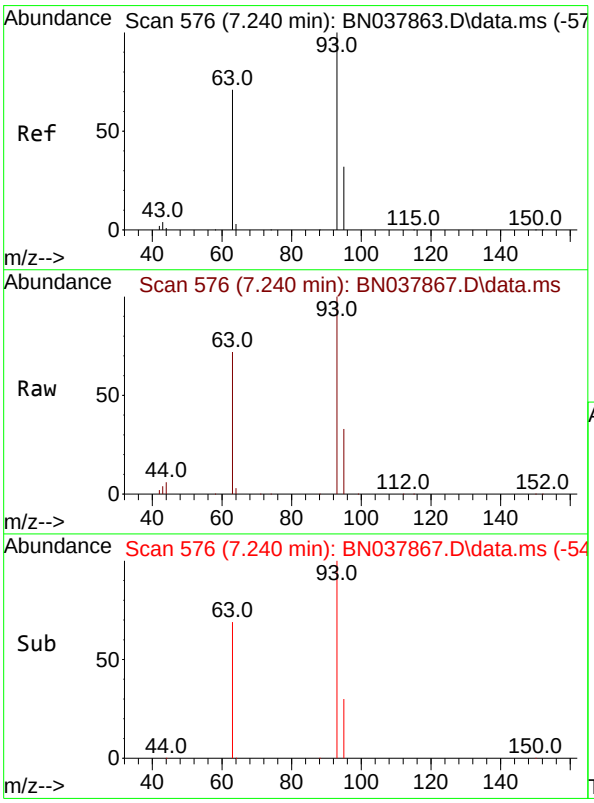
#5
Phenol-d6
Concen: 5.639 ng
RT: 6.980 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 102802

Ion	Ratio	Lower	Upper
99	100		
42	20.6	17.2	25.8
71	33.3	27.3	40.9

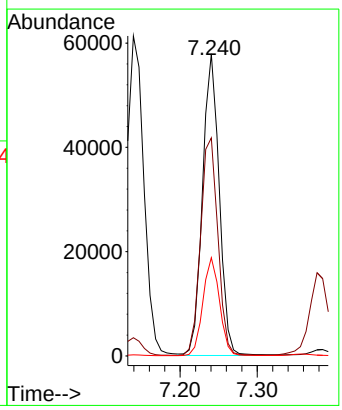


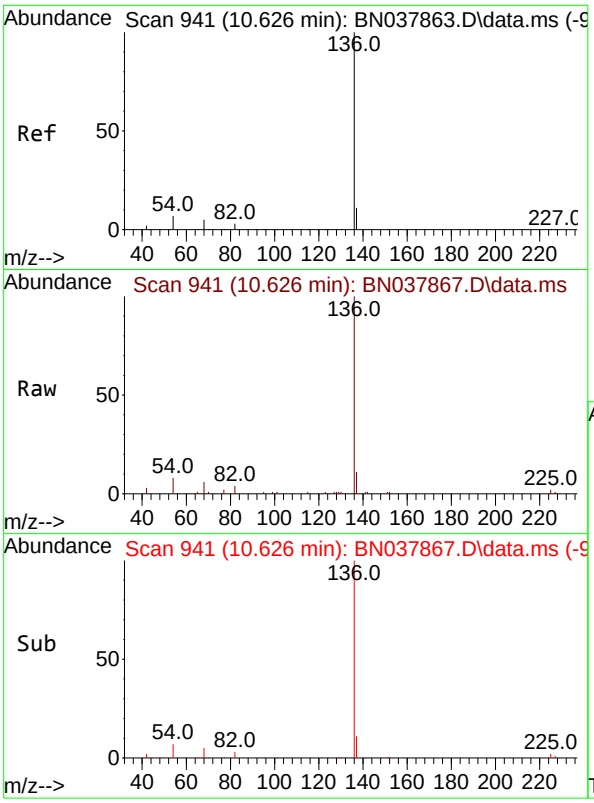


#6
bis(2-Chloroethyl)ether
Concen: 5.134 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion: 93 Resp: 86881

Ion	Ratio	Lower	Upper
93	100		
63	74.6	60.1	90.1
95	32.2	25.4	38.2



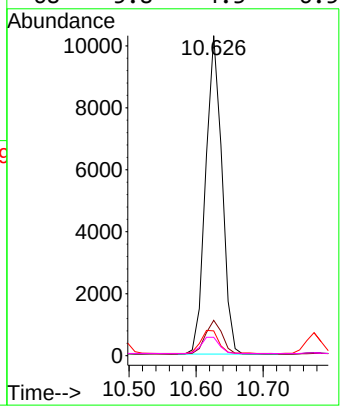


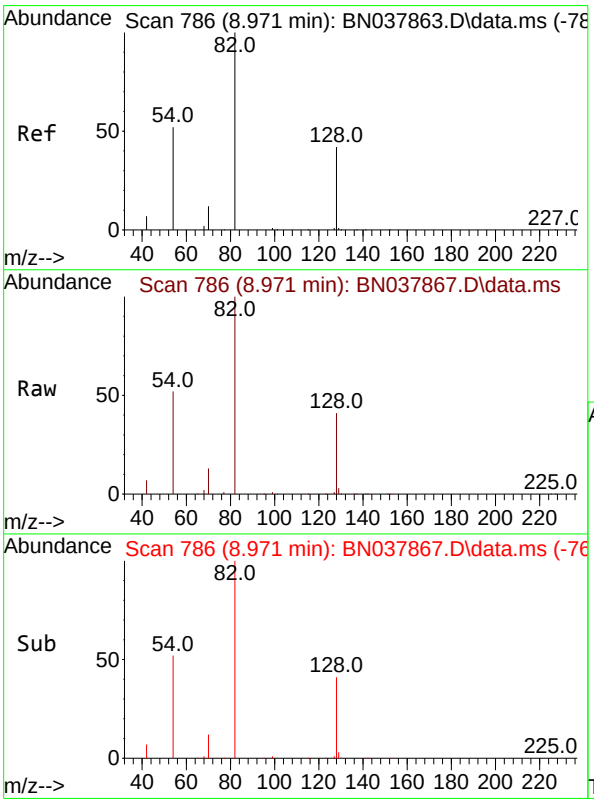
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 17301

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	7.8	5.8	8.8
68	5.8	4.3	6.5

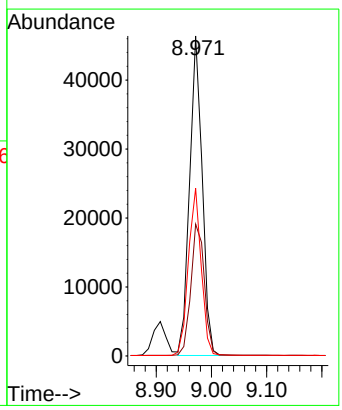


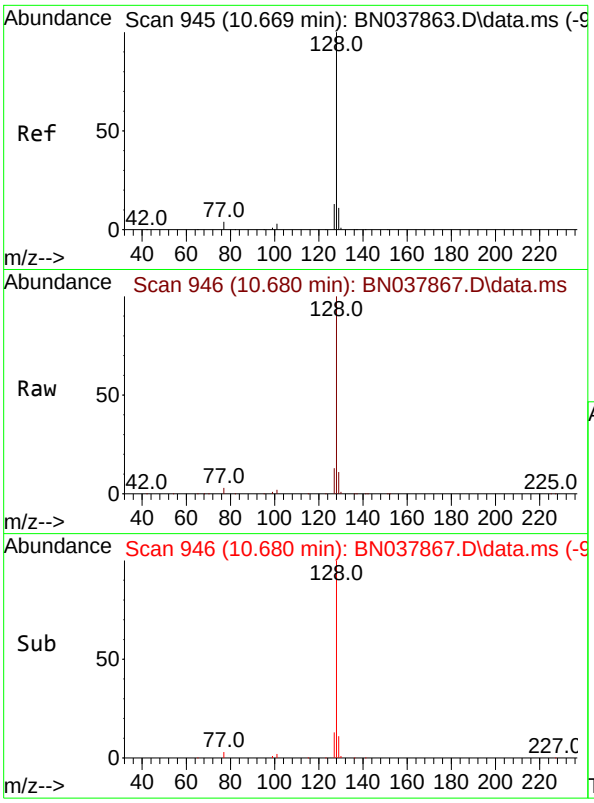


#8
Nitrobenzene-d5
Concen: 5.543 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion: 82 Resp: 73146

Ion	Ratio	Lower	Upper
82	100		
128	41.2	34.8	52.2
54	52.4	42.2	63.2



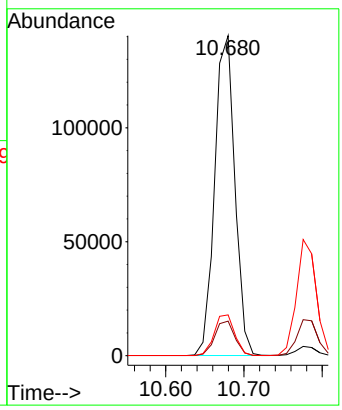


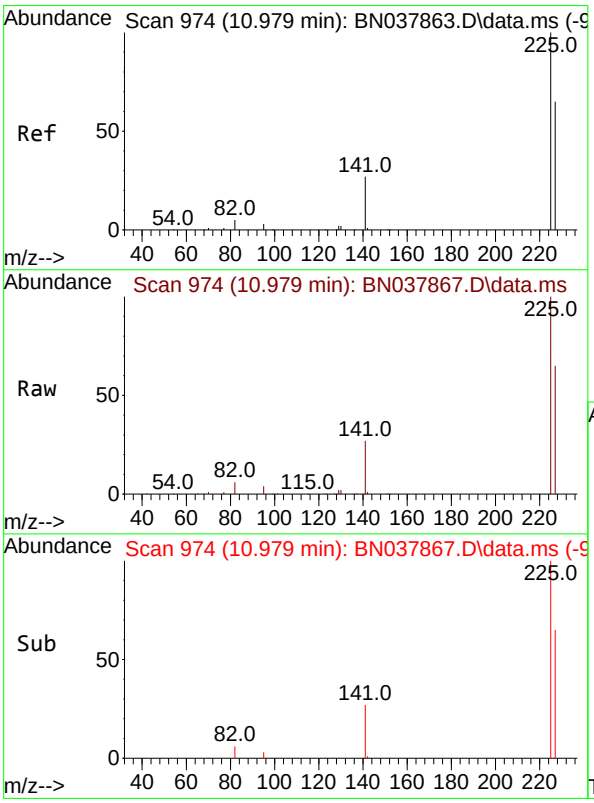
#9
Naphthalene
Concen: 5.264 ng
RT: 10.680 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 250883

Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.2	13.8
127	12.8	11.0	16.6

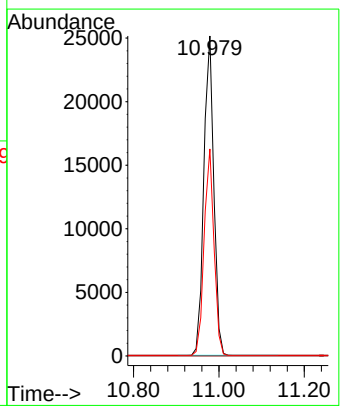


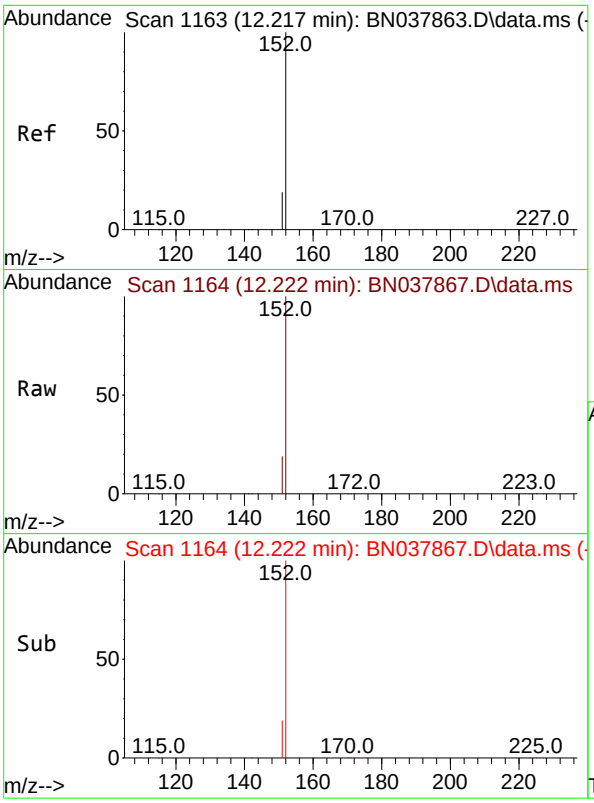


#10
Hexachlorobutadiene
Concen: 5.003 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:225 Resp: 40670

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.4	77.2



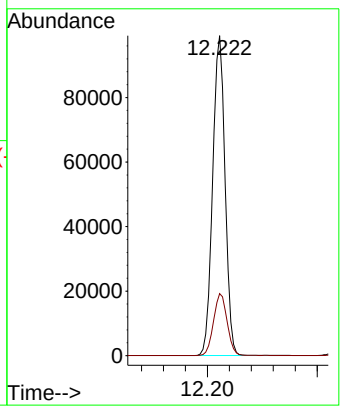


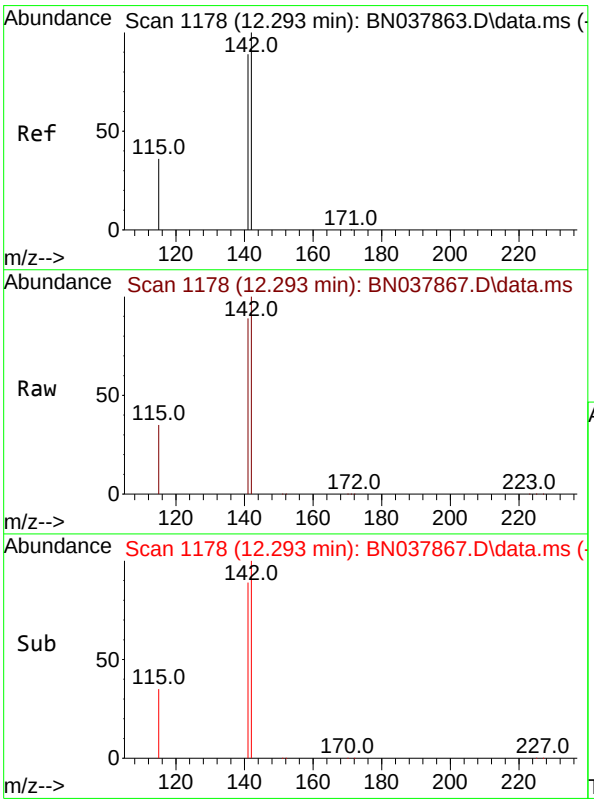
#11
2-Methylnaphthalene-d10
Concen: 6.422 ng
RT: 12.222 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 154332

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.4	26.2

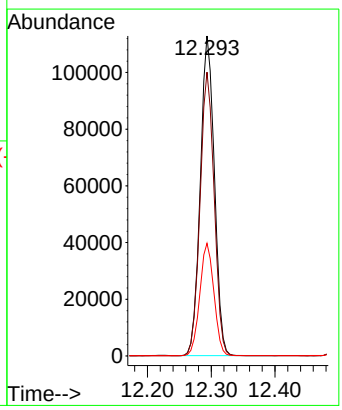


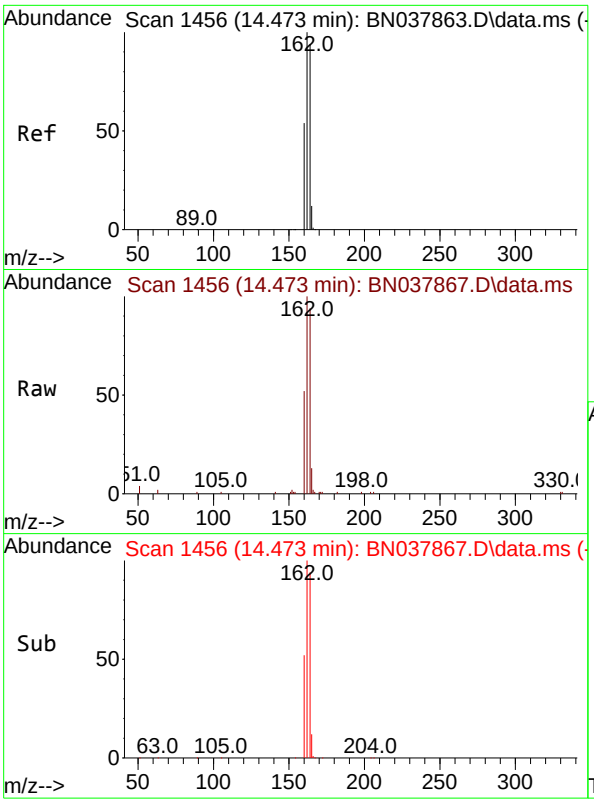


#12
2-Methylnaphthalene
Concen: 5.567 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:142 Resp: 173335

Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.2	106.8
115	35.2	29.7	44.5



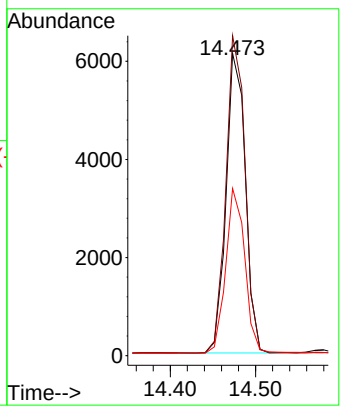


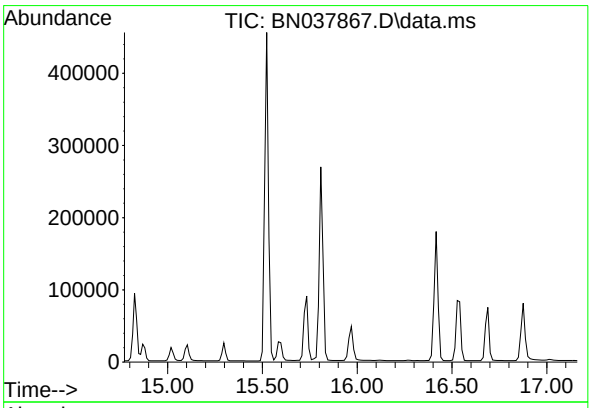
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 9570

Ion	Ratio	Lower	Upper
164	100		
162	105.9	84.8	127.2
160	55.3	46.1	69.1



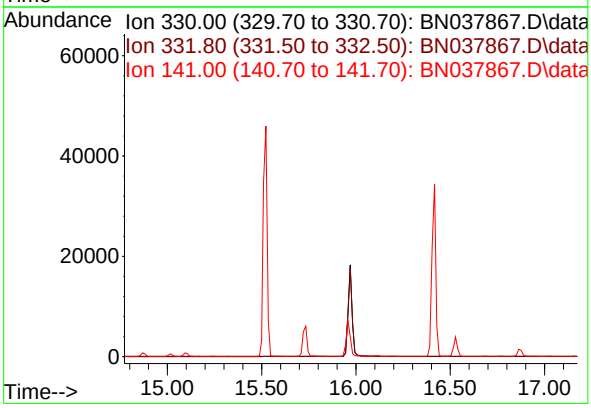


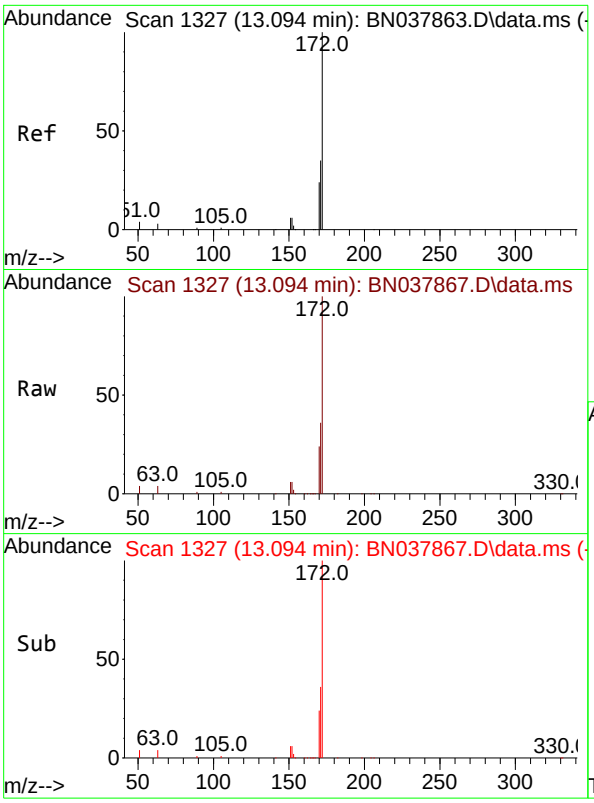
#14
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.97 min

Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	96.5
141	46.5



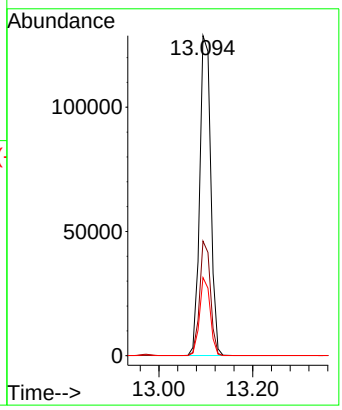


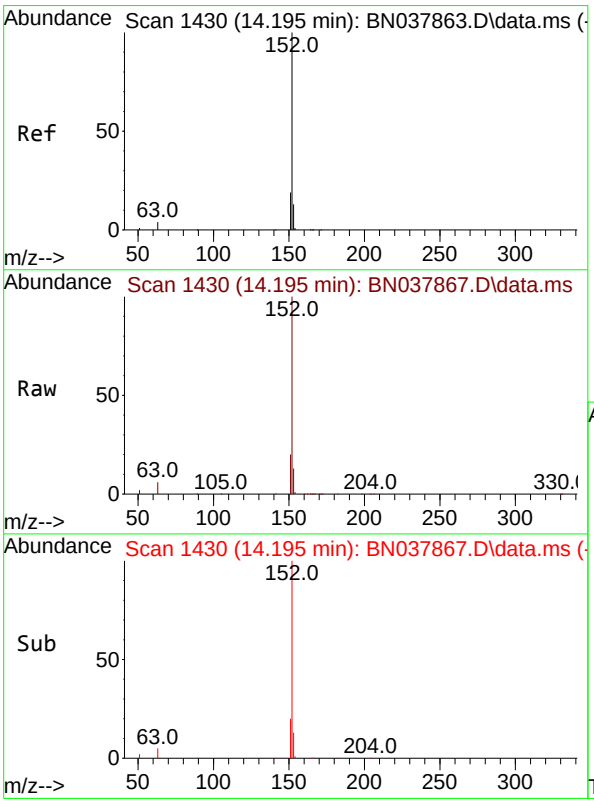
#15
2-Fluorobiphenyl
Concen: 5.379 ng
RT: 13.094 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 210748

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.4	19.7	29.5

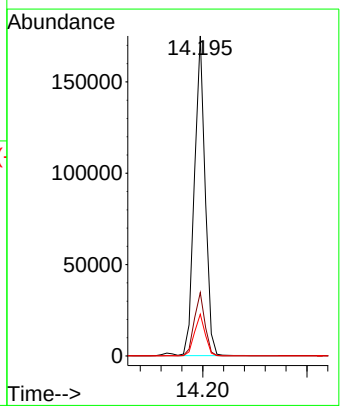


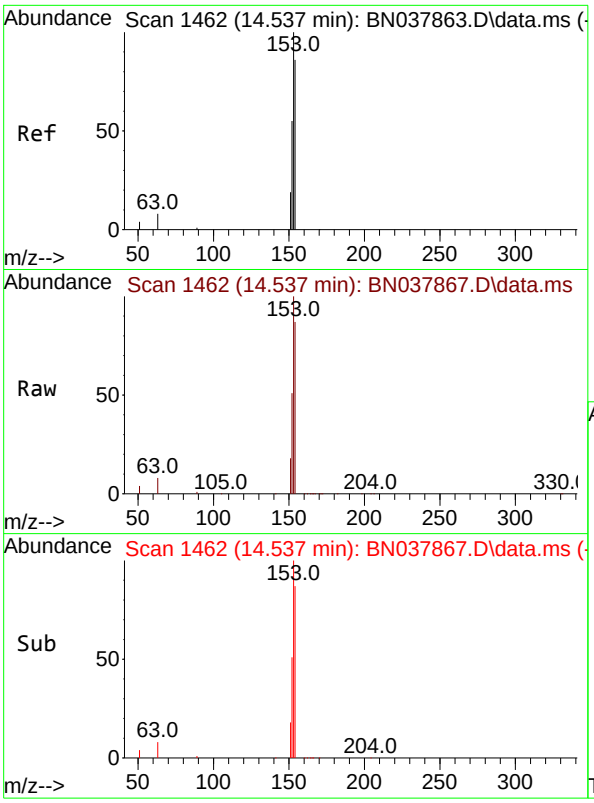


#16
Acenaphthylene
Concen: 5.765 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:152 Resp: 250496

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	13.1	10.5	15.7



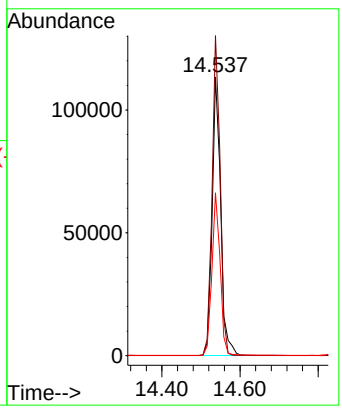


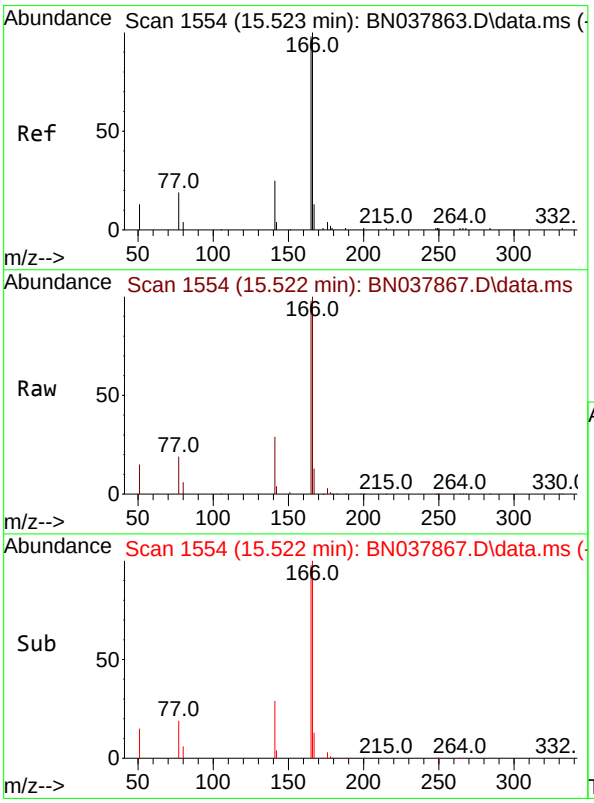
#17
Acenaphthene
Concen: 5.554 ng
RT: 14.537 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 171955

Ion	Ratio	Lower	Upper
154	100		
153	108.8	90.5	135.7
152	56.5	51.8	77.8

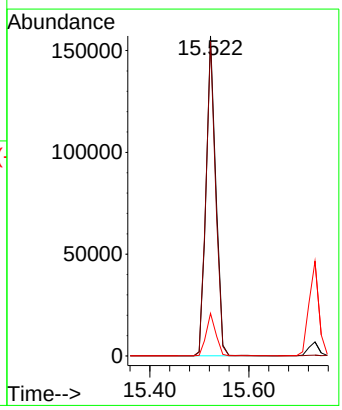


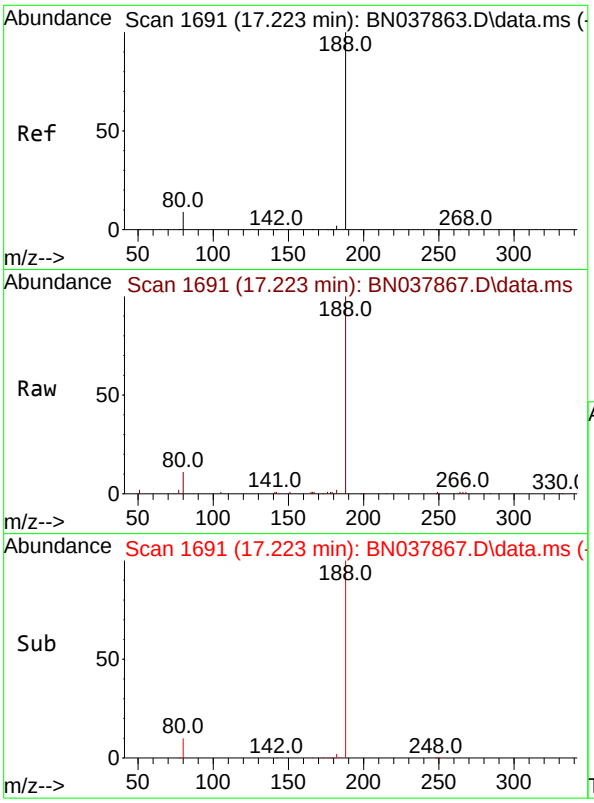


#18
Fluorene
Concen: 5.583 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:166 Resp: 209070

Ion	Ratio	Lower	Upper
166	100		
165	95.7	79.0	118.4
167	12.9	10.6	16.0



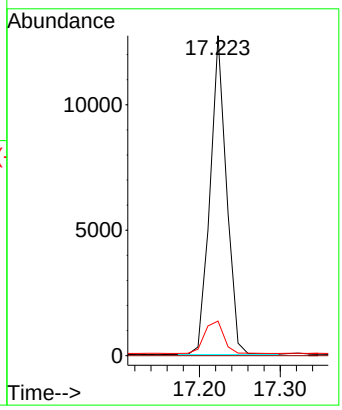


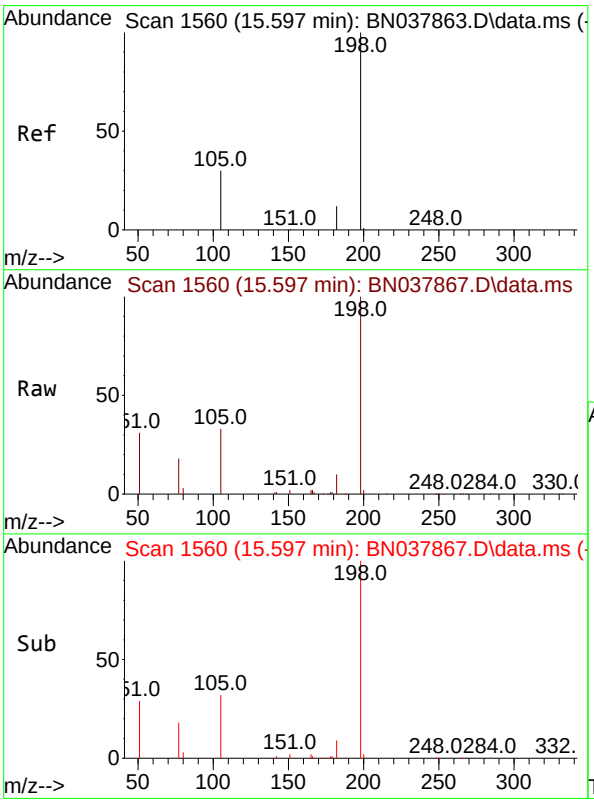
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 17948

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.8	7.6	11.4

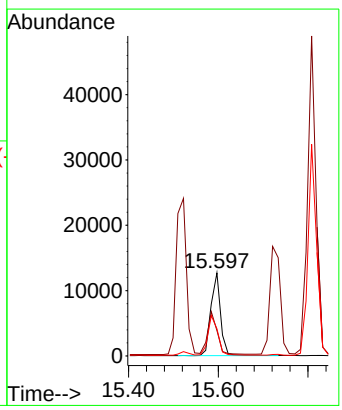


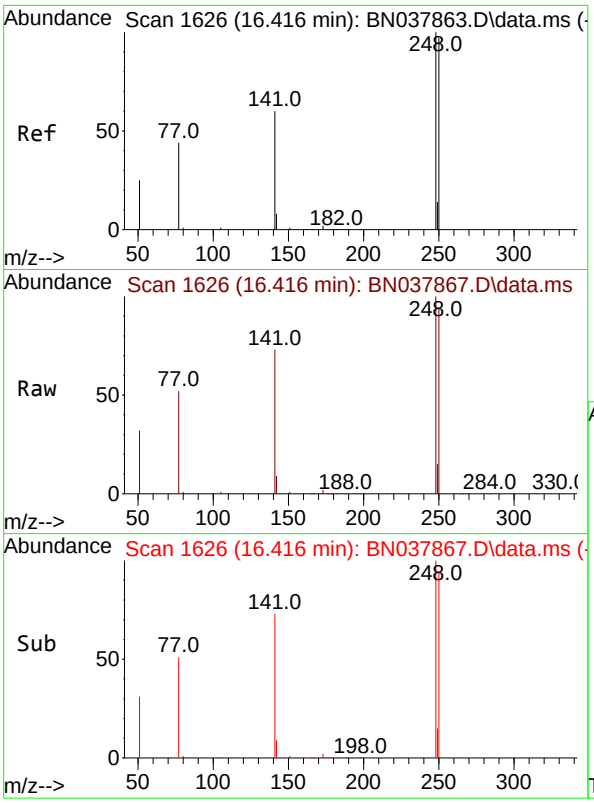


#20
4,6-Dinitro-2-methylphenol
Concen: 4.997 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:198 Resp: 18771

Ion	Ratio	Lower	Upper
198	100		
51	30.7	59.1	88.7#
105	32.7	41.3	61.9#



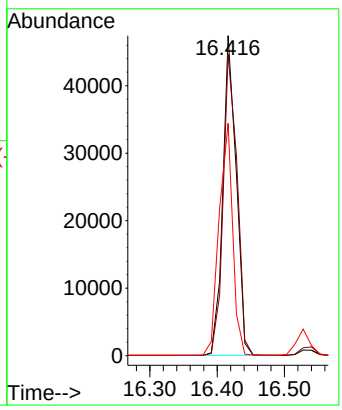


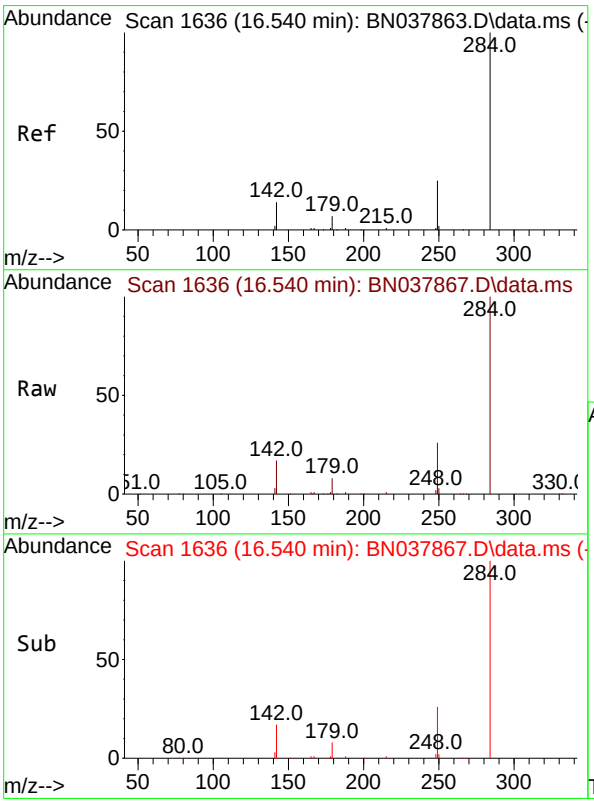
#21
4-Bromophenyl-phenylether
Concen: 5.577 ng
RT: 16.416 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 65230

Ion	Ratio	Lower	Upper
248	100		
250	94.2	77.6	116.4
141	72.6	48.8	73.2

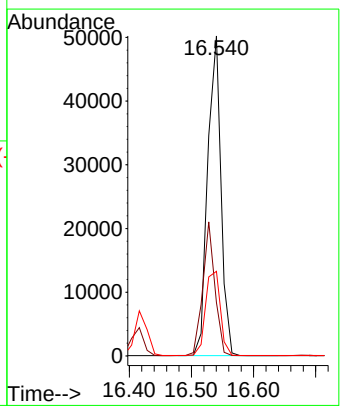


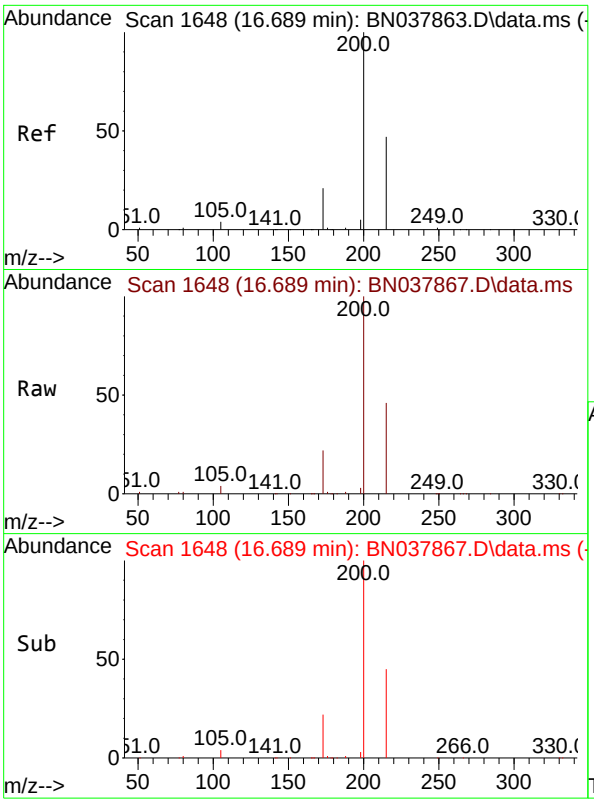


#22
Hexachlorobenzene
Concen: 5.252 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:284 Resp: 74475

Ion	Ratio	Lower	Upper
284	100		
142	38.4	30.9	46.3
249	29.6	23.9	35.9



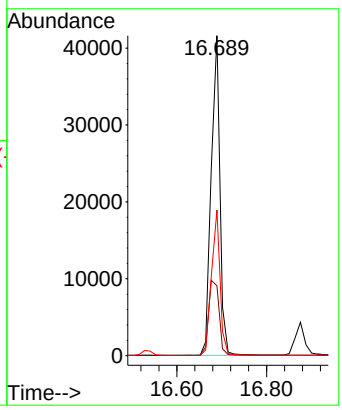


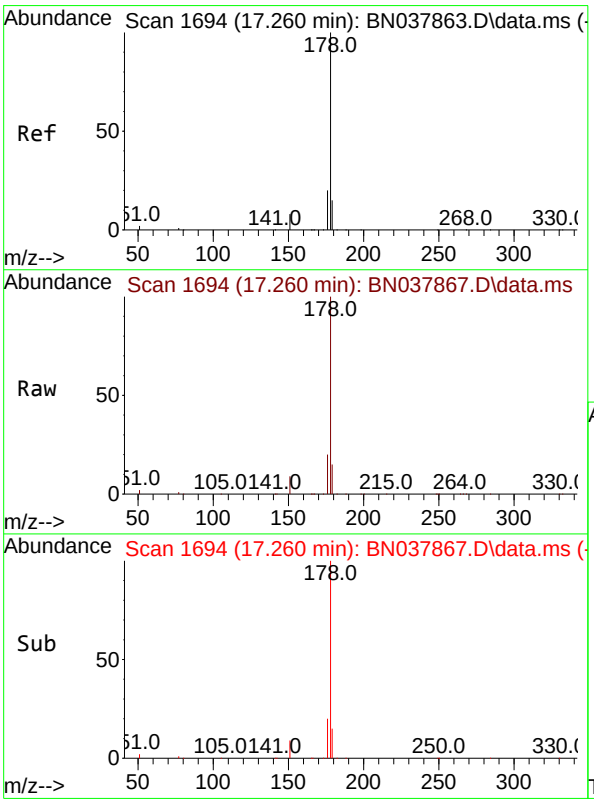
#23
Atrazine
Concen: 6.284 ng
RT: 16.689 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 55972

Ion	Ratio	Lower	Upper
200	100		
173	21.8	18.3	27.5
215	45.5	38.6	58.0

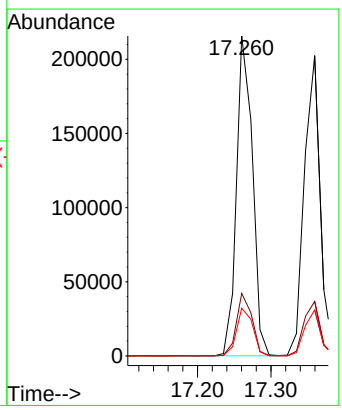


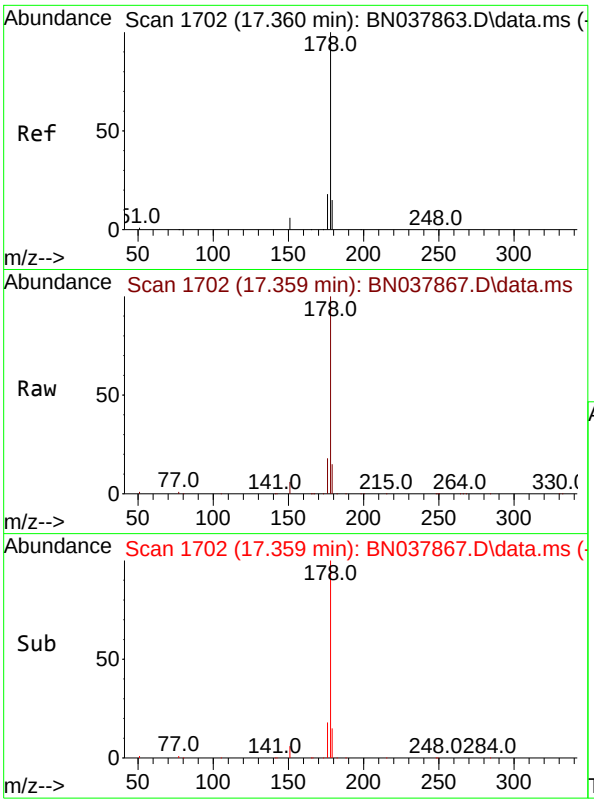


#25
Phenanthrene
Concen: 5.514 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:178 Resp: 325691

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.7	23.5
179	15.1	12.3	18.5



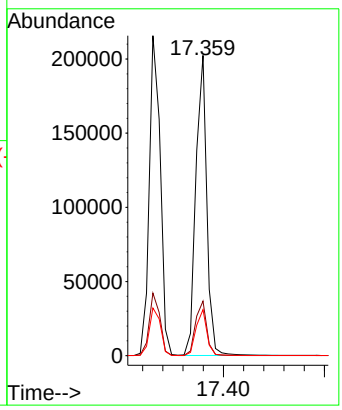


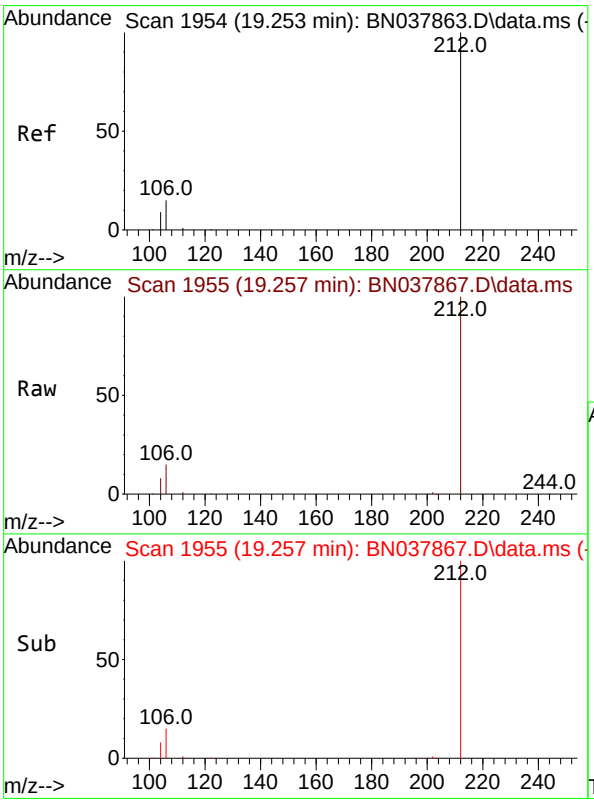
#26
Anthracene
Concen: 5.958 ng
RT: 17.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 305295

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.4
179	15.2	12.3	18.5

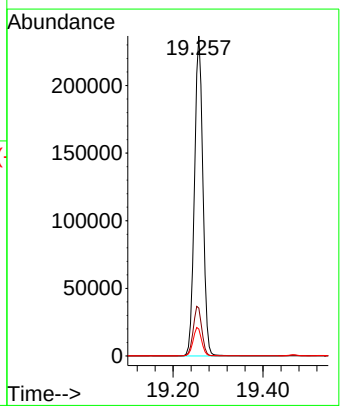


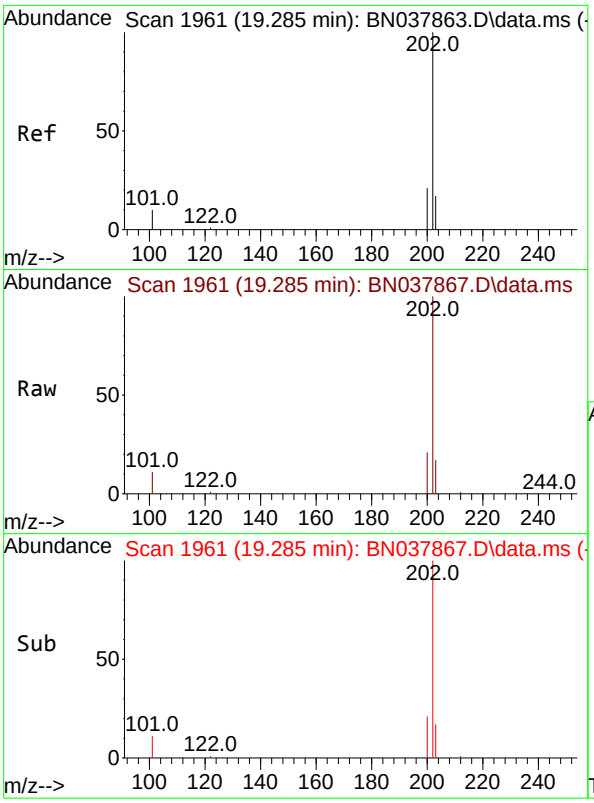


#27
Fluoranthene-d10
Concen: 6.807 ng
RT: 19.257 min Scan# 1955
Delta R.T. 0.005 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:212 Resp: 307332

Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.6	19.0
104	9.0	7.4	11.0



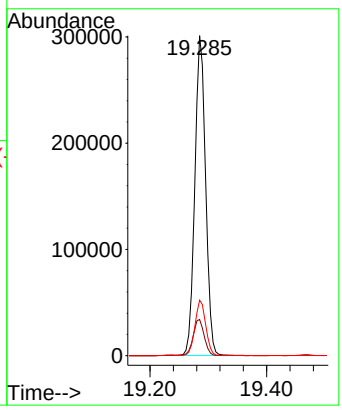


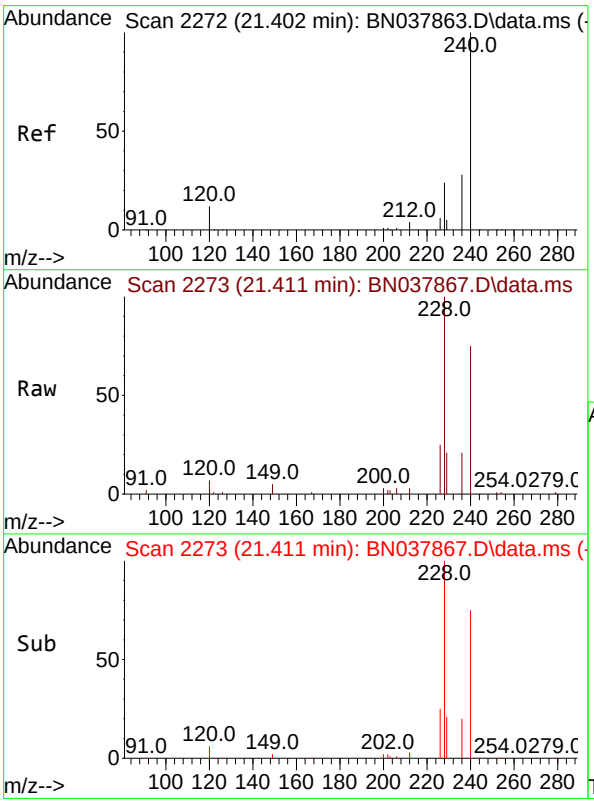
#28
Fluoranthene
Concen: 5.908 ng
RT: 19.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 384292

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	17.3	13.6	20.4

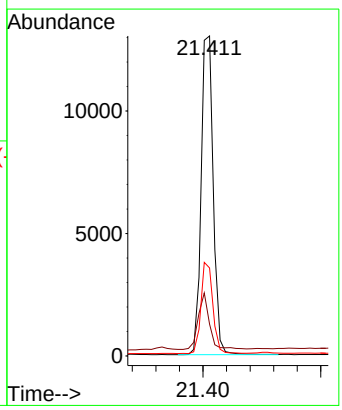


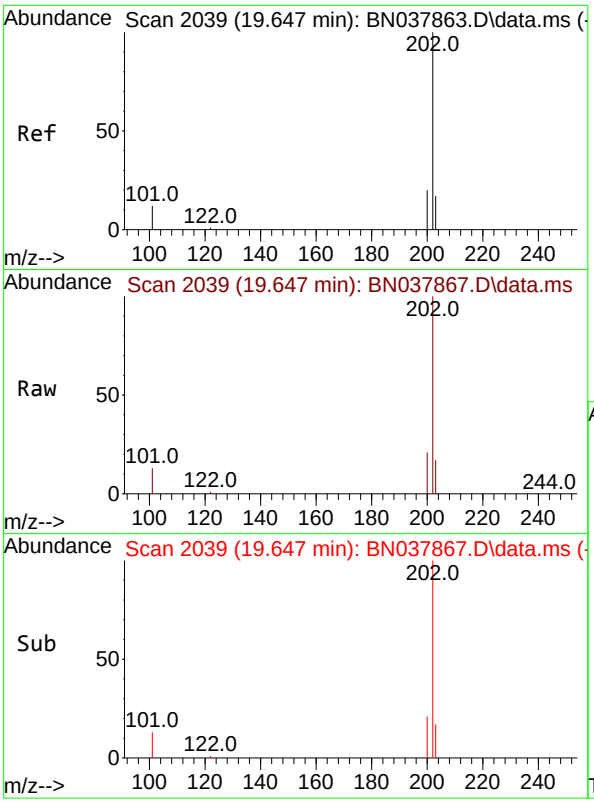


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:240 Resp: 18531

Ion	Ratio	Lower	Upper
240	100		
120	10.0	11.4	17.2#
236	27.5	23.0	34.6



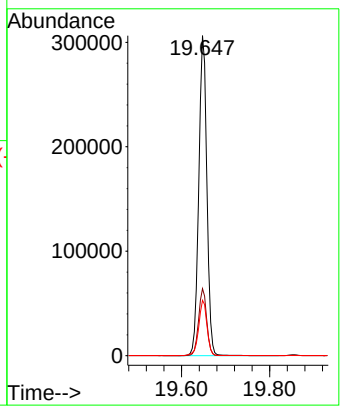


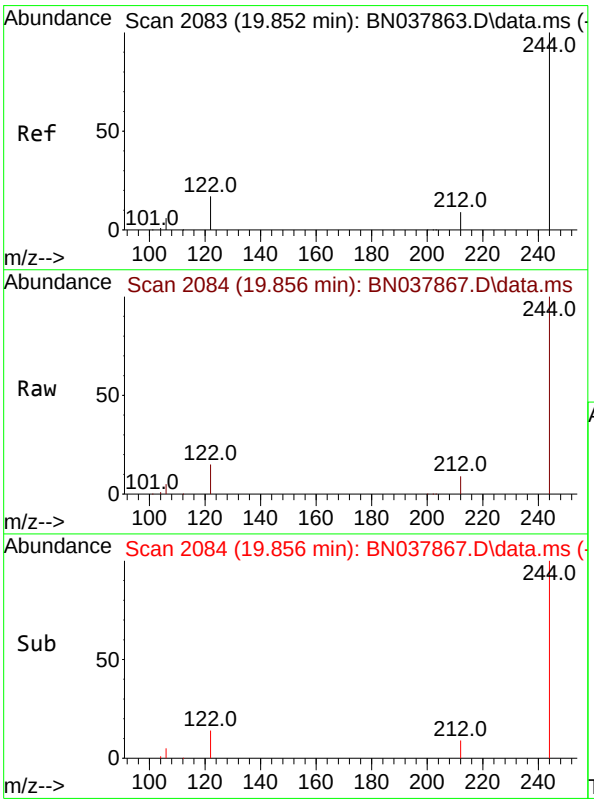
#30
Pyrene
Concen: 5.315 ng
RT: 19.647 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 388849

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.7	14.2	21.4

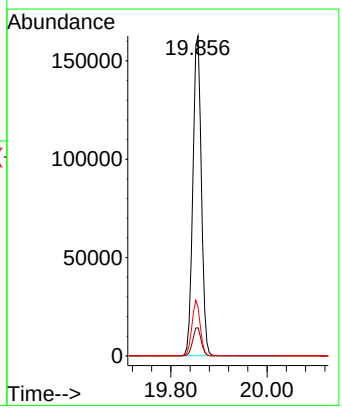


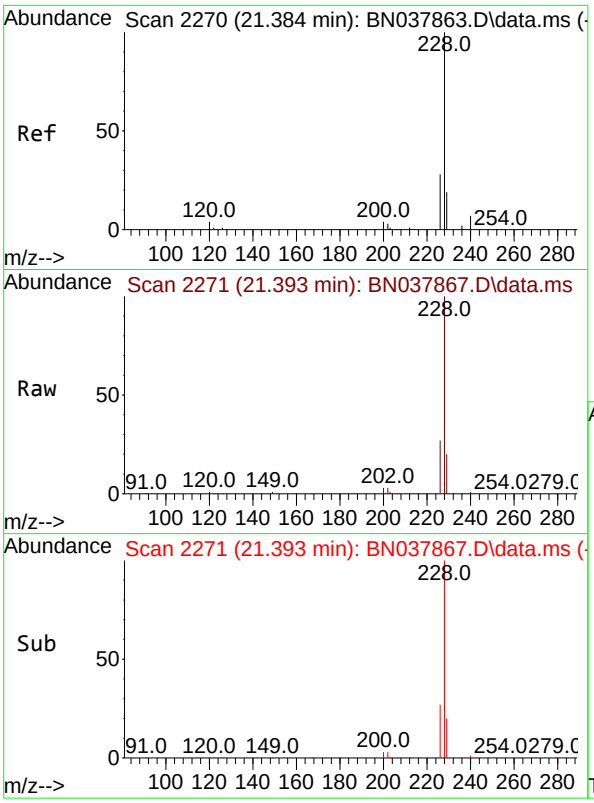


#31
Terphenyl-d14
Concen: 5.606 ng
RT: 19.856 min Scan# 2084
Delta R.T. 0.005 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:244 Resp: 206917

Ion	Ratio	Lower	Upper
244	100		
212	8.8	7.6	11.4
122	15.3	13.9	20.9



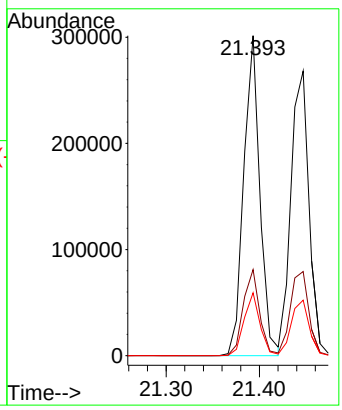


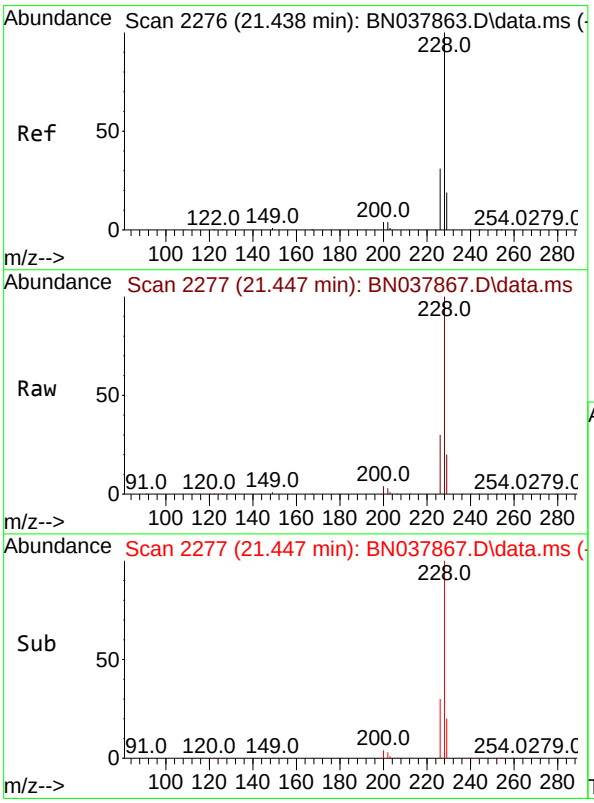
#32
Benzo(a)anthracene
Concen: 5.604 ng
RT: 21.393 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 362927

Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.6	33.8
229	19.7	15.6	23.4

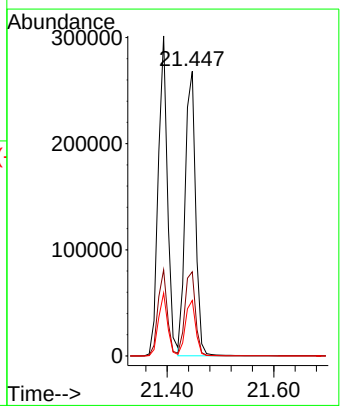


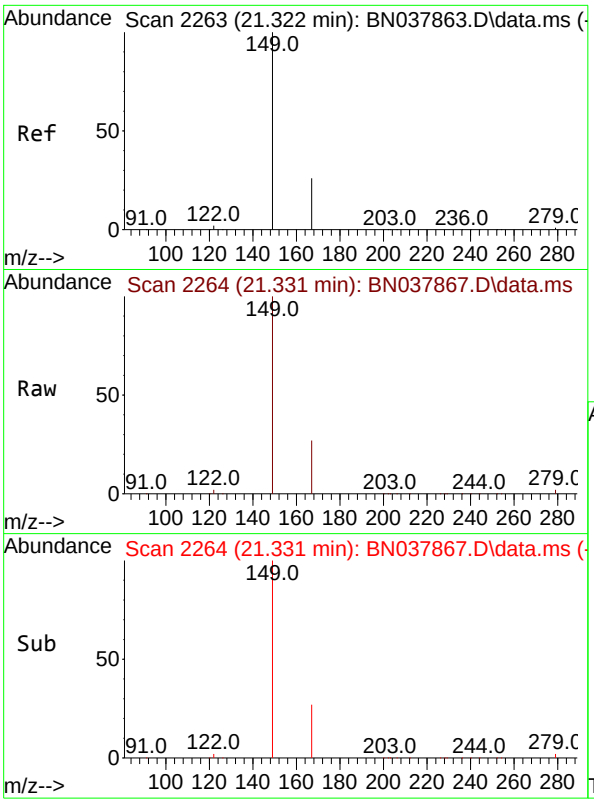


#33
Chrysene
Concen: 5.189 ng
RT: 21.447 min Scan# 2277
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:228 Resp: 363421

Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.6	37.0
229	19.5	15.6	23.4



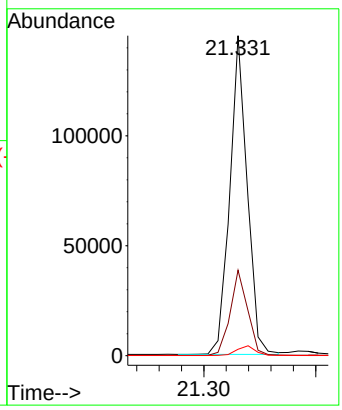


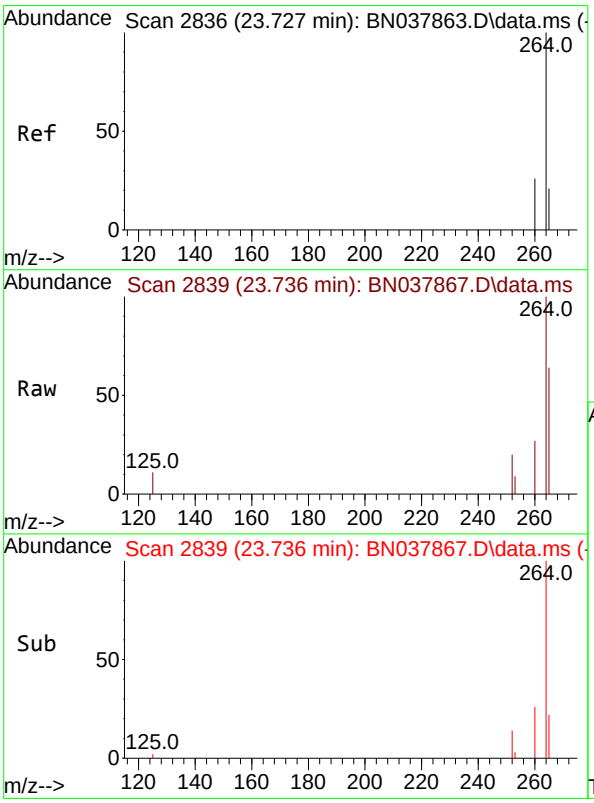
#34
Bis(2-ethylhexyl)phthalate
Concen: 6.109 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:149 Resp: 156492

Ion	Ratio	Lower	Upper
149	100		
167	26.8	20.4	30.6
279	3.2	2.4	3.6

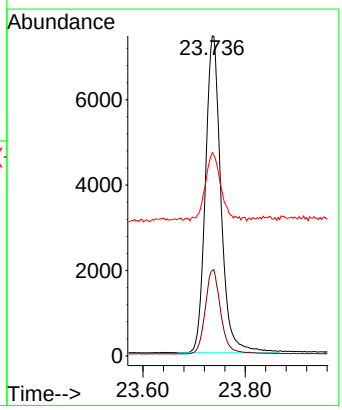


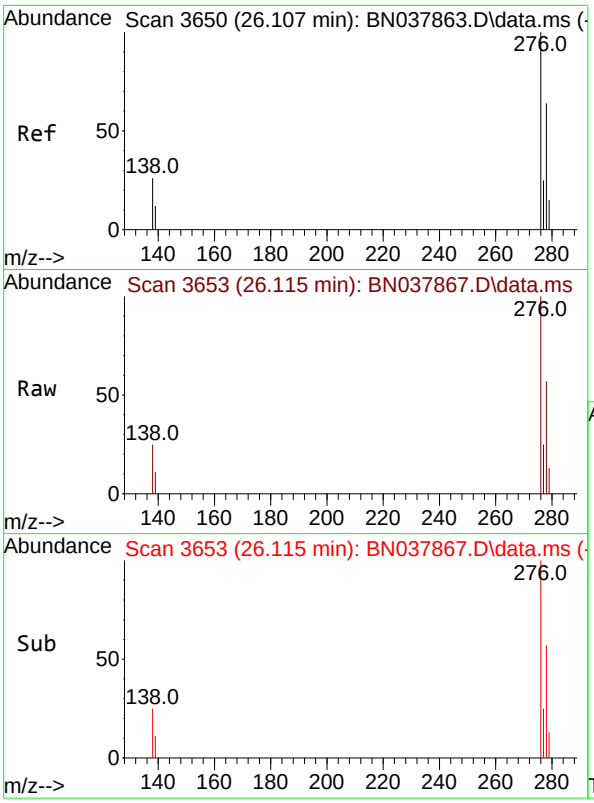


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:264 Resp: 15649

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.5	32.3
265	63.5	53.8	80.6



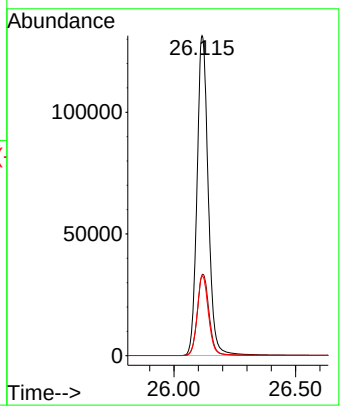


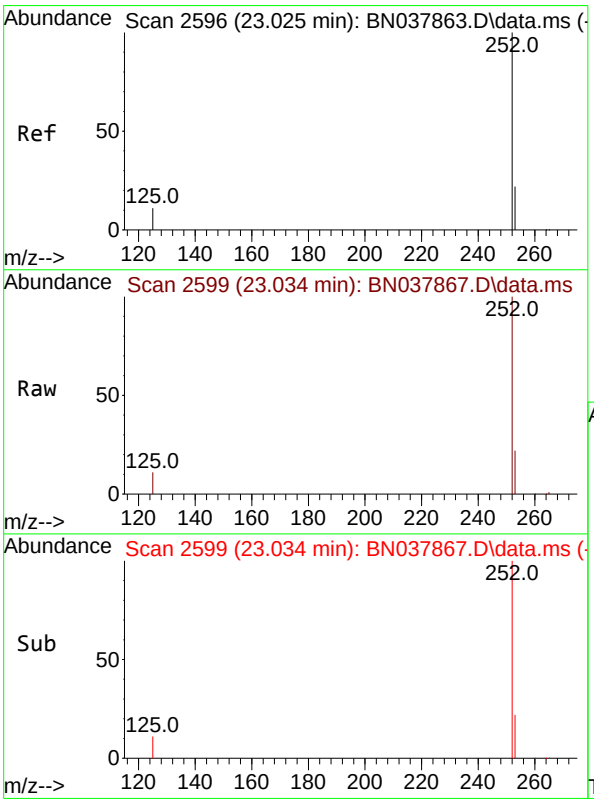
#36
Indeno(1,2,3-cd)pyrene
Concen: 5.906 ng
RT: 26.115 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 422337

Ion	Ratio	Lower	Upper
276	100		
138	26.3	21.4	32.0
277	25.1	20.3	30.5

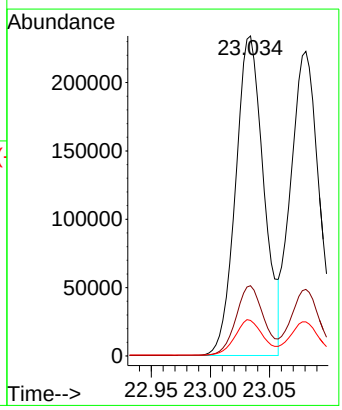


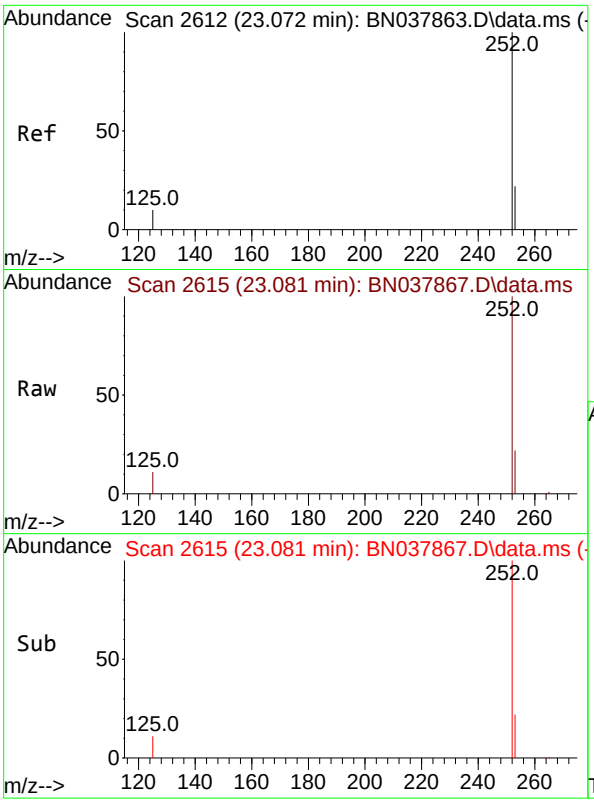


#37
Benzo(b)fluoranthene
Concen: 5.742 ng
RT: 23.034 min Scan# 2599
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:252 Resp: 387512

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.4	29.0
125	11.1	13.0	19.4#



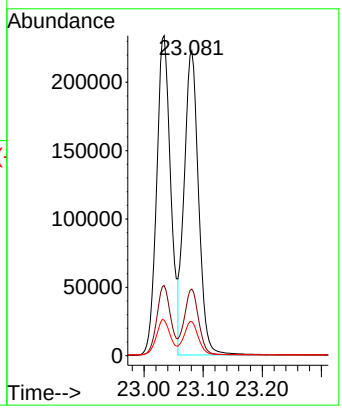


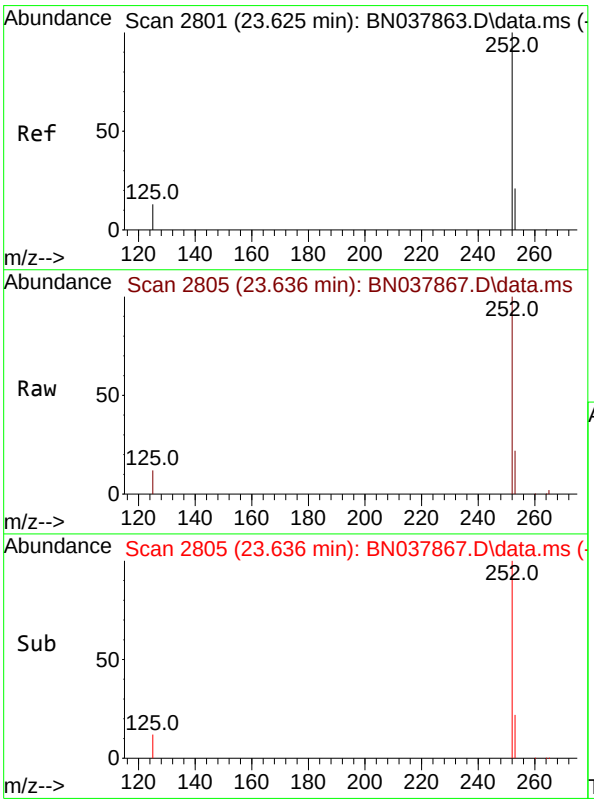
#38
Benzo(k)fluoranthene
Concen: 5.548 ng
RT: 23.081 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 376732

Ion	Ratio	Lower	Upper
252	100		
253	21.8	19.5	29.3
125	11.2	13.0	19.4#

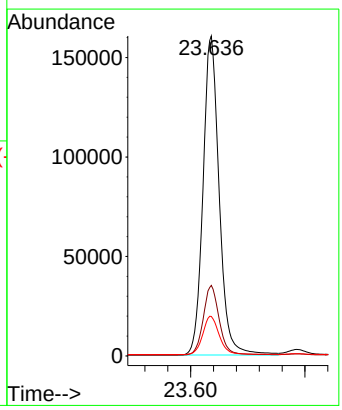


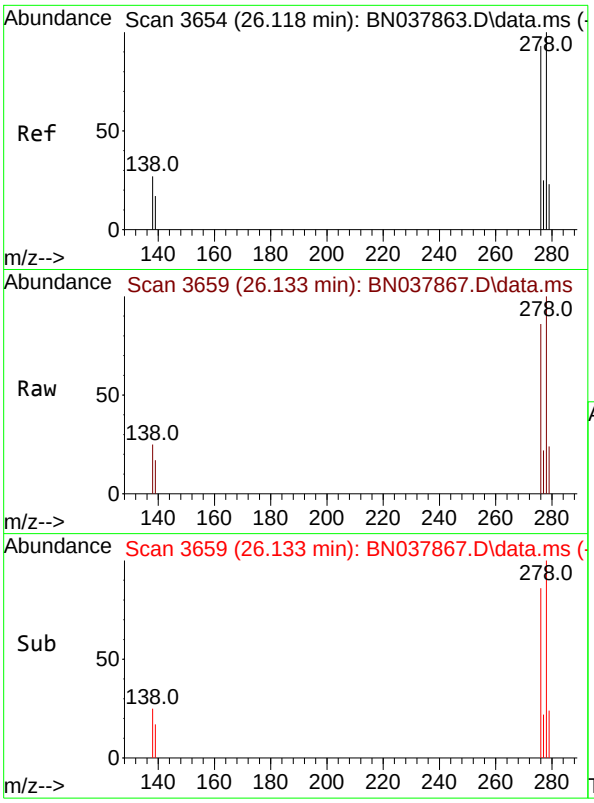


#39
Benzo(a)pyrene
Concen: 5.900 ng
RT: 23.636 min Scan# 2805
Delta R.T. 0.012 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:252 Resp: 314913

Ion	Ratio	Lower	Upper
252	100		
253	22.0	20.6	30.8
125	12.3	16.7	25.1#



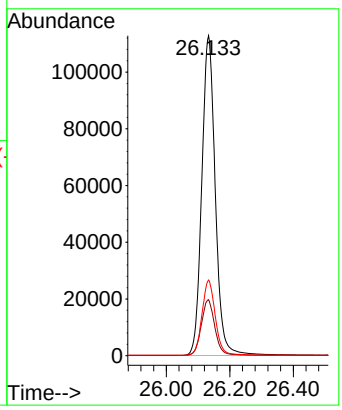


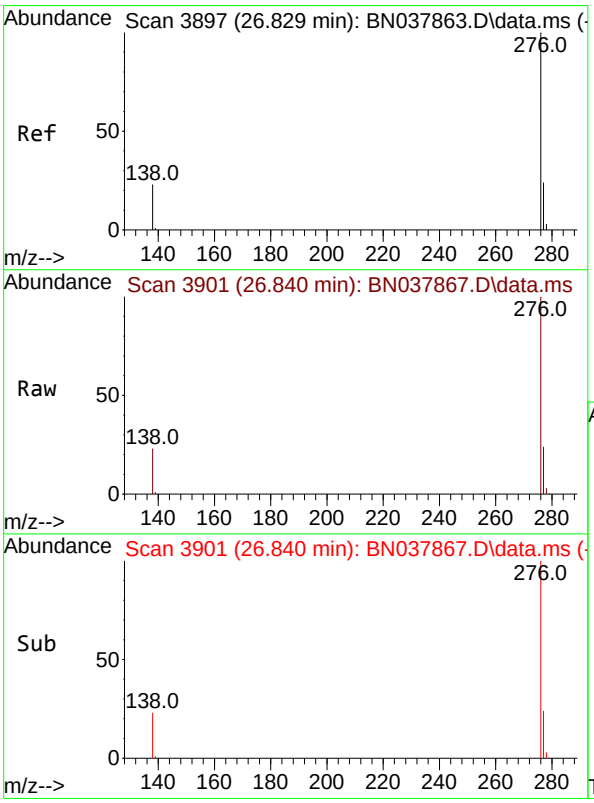
#40
Dibenzo(a,h)anthracene
Concen: 5.971 ng
RT: 26.133 min Scan# 3
Delta R.T. 0.015 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:278 Resp: 333427

Ion	Ratio	Lower	Upper
278	100		
139	17.5	15.4	23.2
279	23.6	20.8	31.2

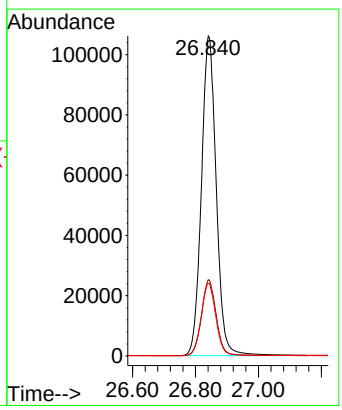




#41
Benzo(g,h,i)perylene
Concen: 5.913 ng
RT: 26.840 min Scan# 3901
Delta R.T. 0.012 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:276 Resp: 346868

Ion	Ratio	Lower	Upper
276	100		
277	23.8	20.2	30.4
138	22.7	19.8	29.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037868.D
Acq On : 23 Sep 2025 16:28
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Quant Time: Sep 24 11:02:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.825	152	5572	0.400	ng		0.00
7) Naphthalene-d8	10.626	136	16158	0.400	ng		0.00
13) Acenaphthene-d10	14.473	164	8429	0.400	ng		0.00
19) Phenanthrene-d10	17.223	188	16279	0.400	ng	#	0.00
29) Chrysene-d12	21.402	240	14204	0.400	ng	#	0.00
35) Perylene-d12	23.736	264	13265	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.392	112	5005	0.394	ng		0.00
5) Phenol-d6	6.980	99	6375	0.382	ng		0.00
8) Nitrobenzene-d5	8.971	82	5453	0.442	ng		0.00
11) 2-Methylnaphthalene-d10	12.222	152	9492	0.423	ng		0.00
14) 2,4,6-Tribromophenol	15.969	330	1107	0.346	ng		0.00
15) 2-Fluorobiphenyl	13.105	172	16723	0.485	ng		0.01
27) Fluoranthene-d10	19.257	212	16910	0.413	ng		0.00
31) Terphenyl-d14	19.856	244	13646	0.482	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	2698	0.477	ng		98
3) n-Nitrosodimethylamine	3.600	42	3070	0.408	ng	#	89
6) bis(2-Chloroethyl)ether	7.240	93	6823	0.440	ng		99
9) Naphthalene	10.680	128	18392	0.413	ng		99
10) Hexachlorobutadiene	10.979	225	3253	0.428	ng	#	100
12) 2-Methylnaphthalene	12.293	142	10904	0.375	ng		99
16) Acenaphthylene	14.195	152	16721	0.437	ng		99
17) Acenaphthene	14.537	154	11059	0.406	ng		99
18) Fluorene	15.522	166	13327	0.404	ng		97
20) 4,6-Dinitro-2-methylph...	15.597	198	737	0.418	ng		99
21) 4-Bromophenyl-phenylether	16.416	248	4157	0.392	ng	#	89
22) Hexachlorobenzene	16.540	284	5455	0.424	ng		100
23) Atrazine	16.689	200	3196	0.396	ng		98
24) Pentachlorophenol	16.875	266	1396	0.316	ng		99
25) Phenanthrene	17.260	178	22020	0.411	ng		100
26) Anthracene	17.360	178	18967	0.408	ng		99
28) Fluoranthene	19.285	202	23044	0.391	ng		100
30) Pyrene	19.647	202	22563	0.402	ng		100
32) Benzo(a)anthracene	21.393	228	20398	0.411	ng		99
33) Chrysene	21.438	228	22204	0.414	ng		99
34) Bis(2-ethylhexyl)phtha...	21.331	149	7939	0.404	ng		98
36) Indeno(1,2,3-cd)pyrene	26.115	276	25340	0.418	ng		99
37) Benzo(b)fluoranthene	23.031	252	22193	0.388	ng		99
38) Benzo(k)fluoranthene	23.078	252	23886	0.415	ng		100
39) Benzo(a)pyrene	23.633	252	19091	0.422	ng		100
40) Dibenzo(a,h)anthracene	26.130	278	19441	0.411	ng		100
41) Benzo(g,h,i)perylene	26.841	276	19570	0.394	ng		99

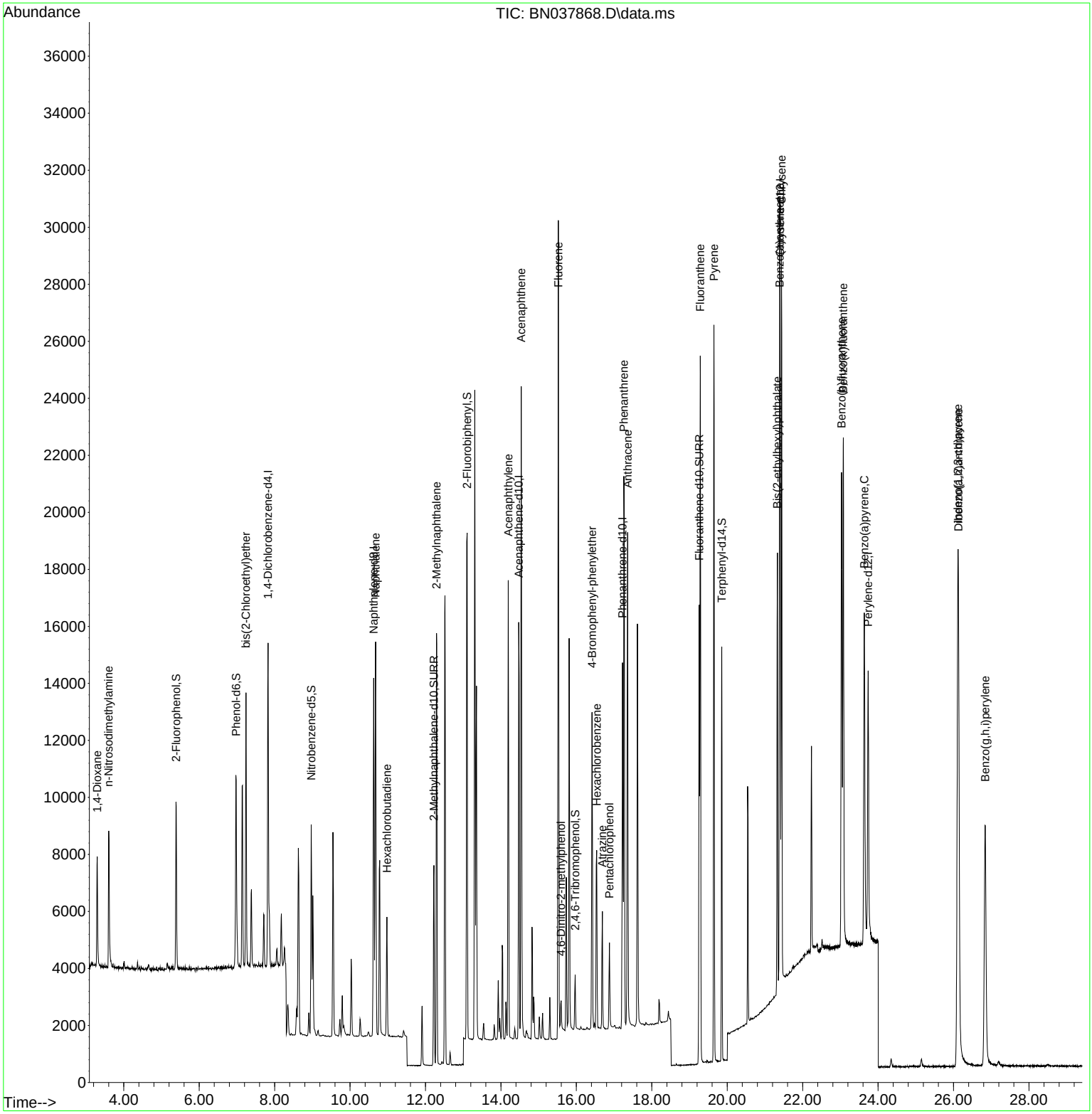
(#) = qualifier out of range (m) = manual integration (+) = signals summed

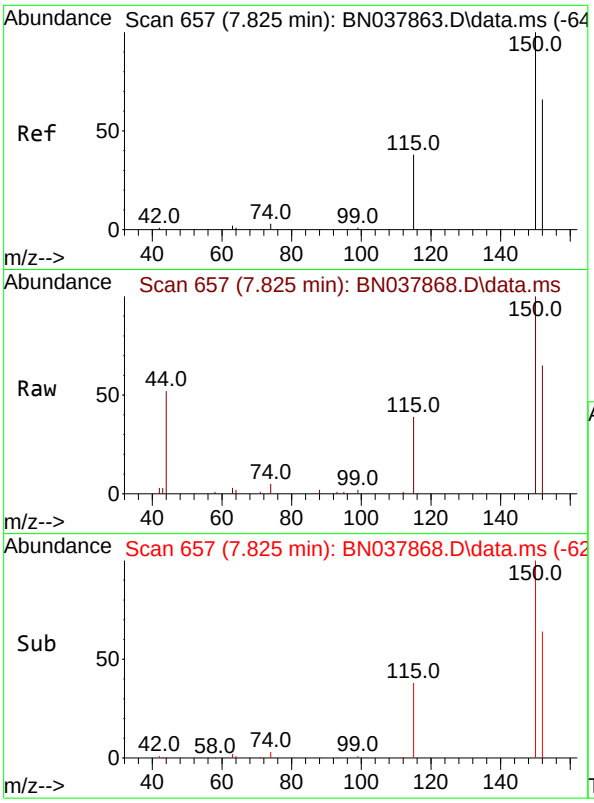
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037868.D
Acq On : 23 Sep 2025 16:28
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Quant Time: Sep 24 11:02:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



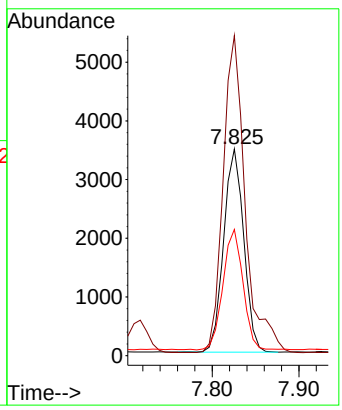


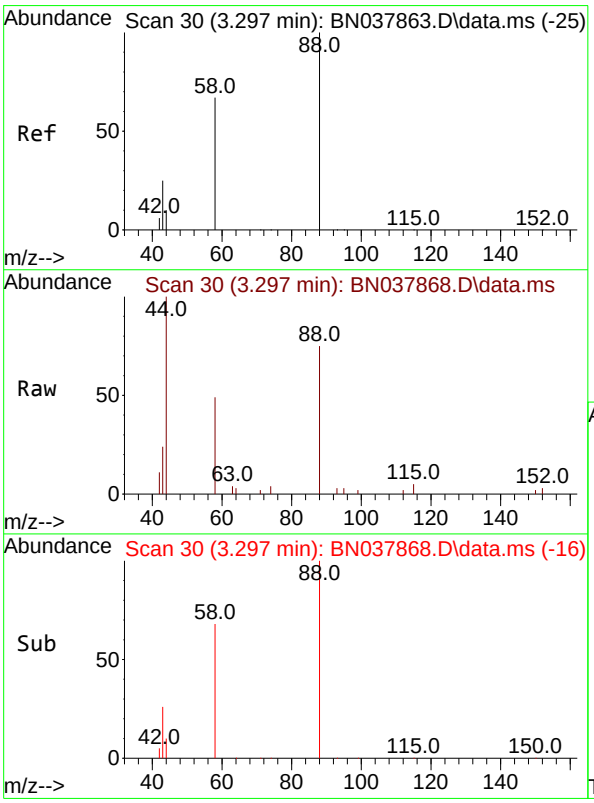
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:152 Resp: 5572

Ion	Ratio	Lower	Upper
152	100		
150	154.8	121.0	181.4
115	61.0	47.4	71.0

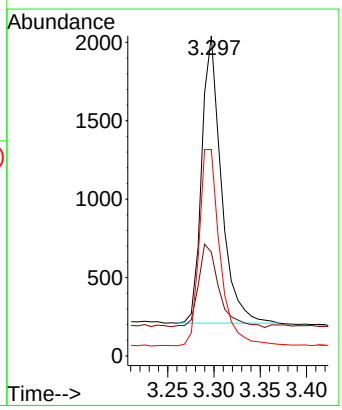


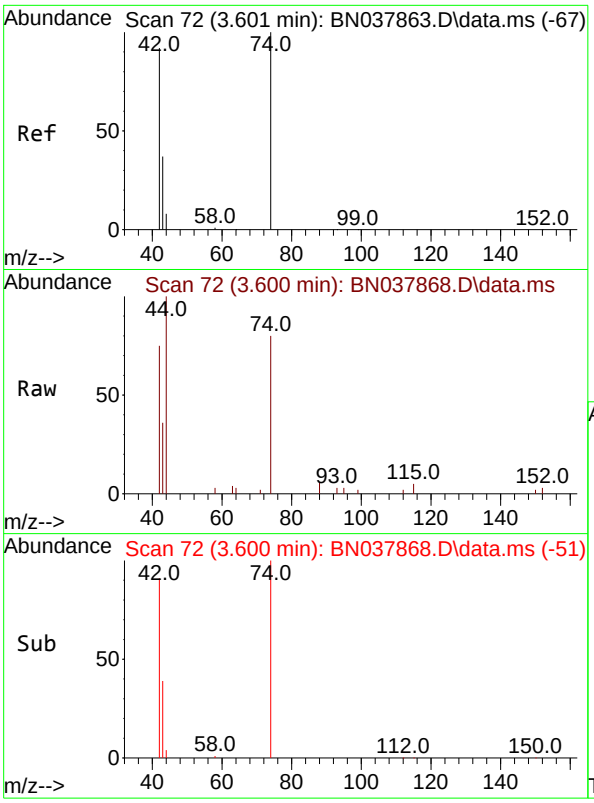


#2
1,4-Dioxane
Concen: 0.477 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion: 88 Resp: 2698

Ion	Ratio	Lower	Upper
88	100		
43	30.6	26.6	39.8
58	72.8	58.9	88.3



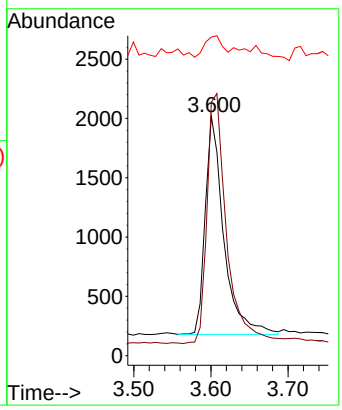


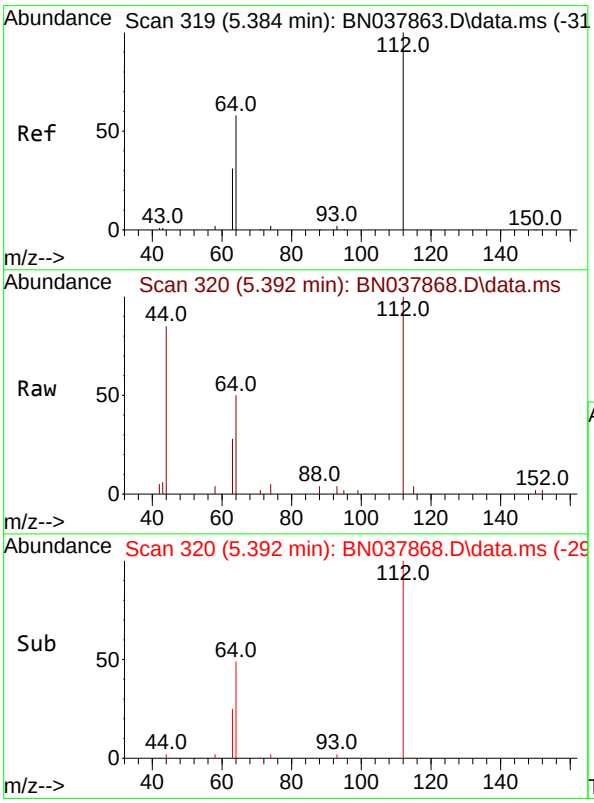
#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.600 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion: 42 Resp: 3070

Ion	Ratio	Lower	Upper
42	100		
74	121.8	93.4	140.0
44	9.2	22.2	33.4#

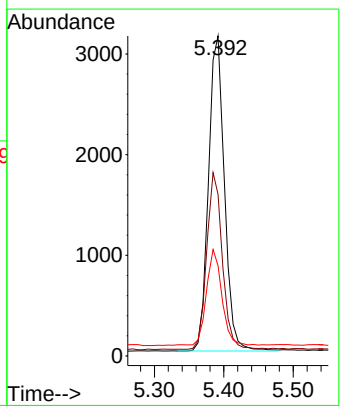


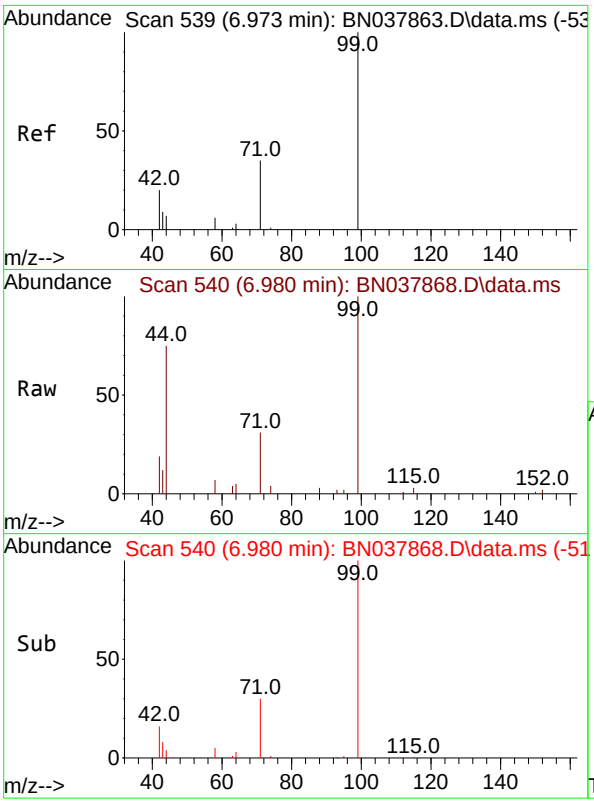


#4
2-Fluorophenol
Concen: 0.394 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:112 Resp: 5005

Ion	Ratio	Lower	Upper
112	100		
64	54.6	44.6	66.8
63	29.8	24.9	37.3



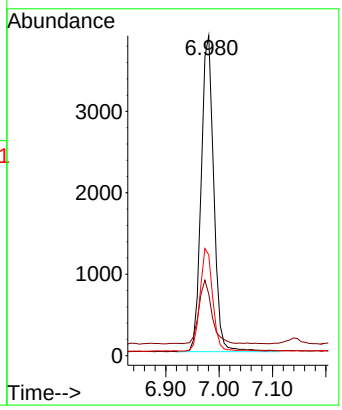


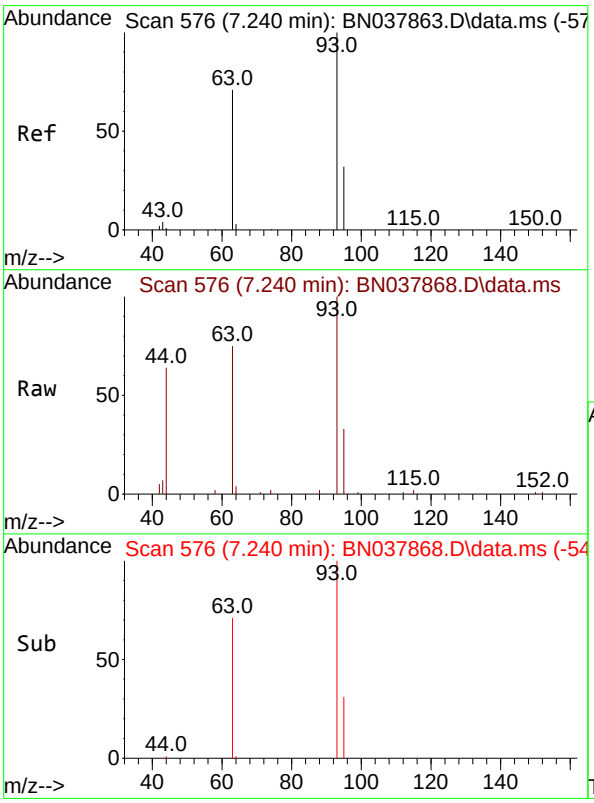
#5
Phenol-d6
Concen: 0.382 ng
RT: 6.980 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion: 99 Resp: 6375

Ion	Ratio	Lower	Upper
99	100		
42	20.3	17.2	25.8
71	32.5	27.3	40.9

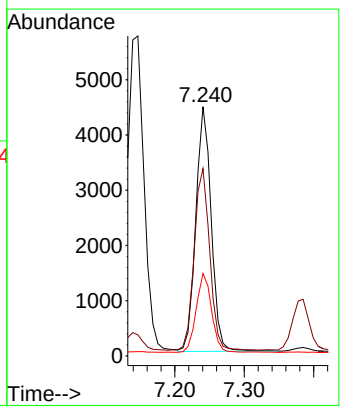


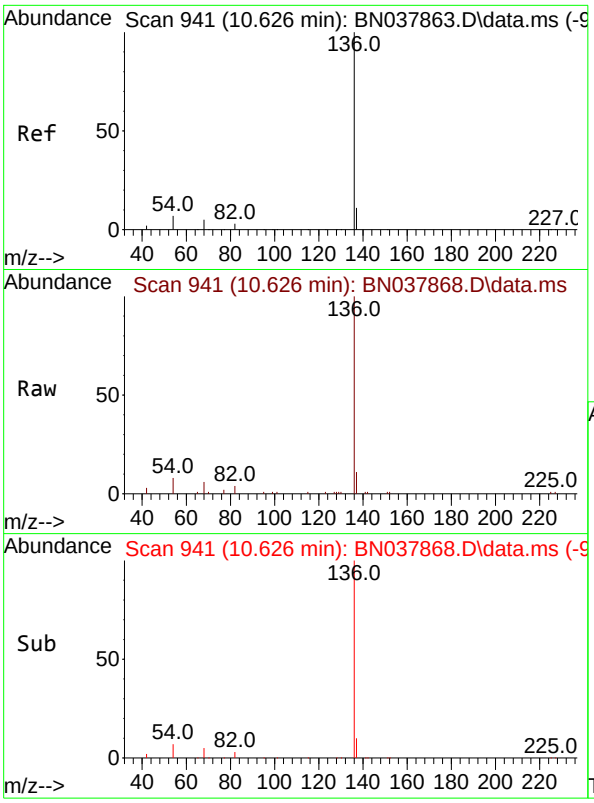


#6
bis(2-Chloroethyl)ether
Concen: 0.440 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion: 93 Resp: 6823

Ion	Ratio	Lower	Upper
93	100		
63	74.7	60.1	90.1
95	32.3	25.4	38.2



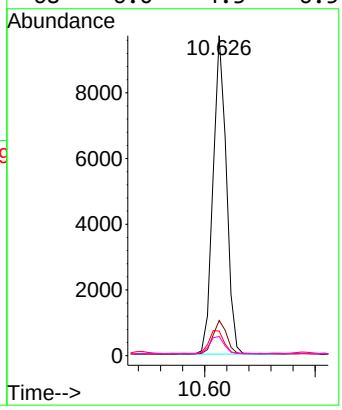


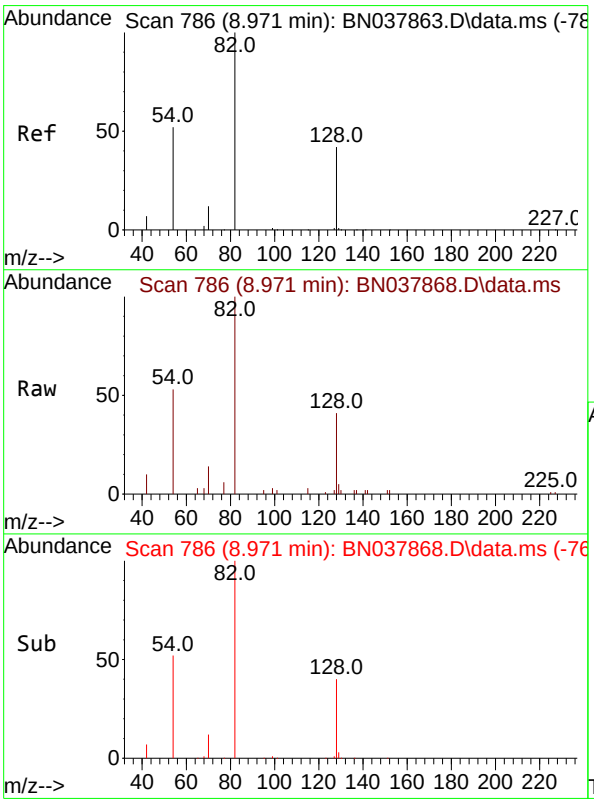
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:136 Resp: 16158

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	7.7	5.8	8.8
68	6.0	4.3	6.5

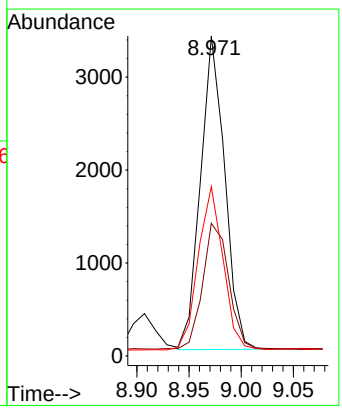


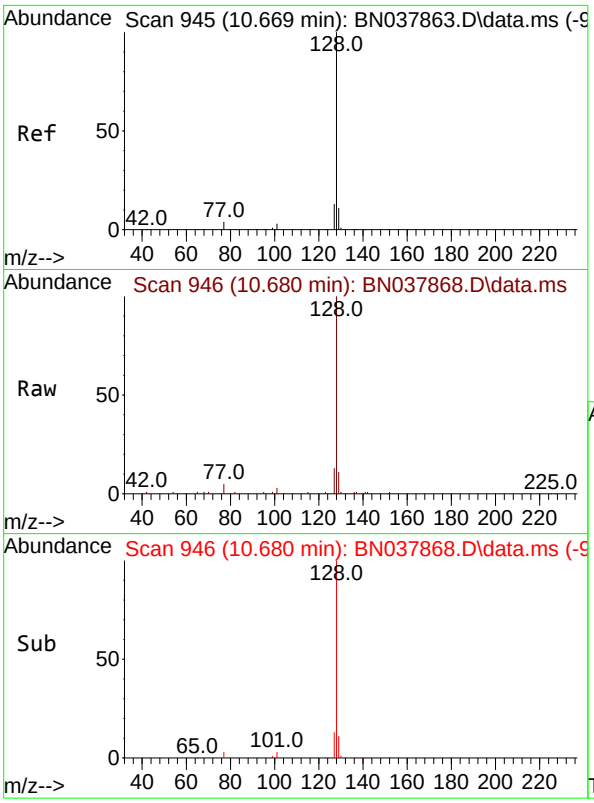


#8
Nitrobenzene-d5
Concen: 0.442 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion: 82 Resp: 5453

Ion	Ratio	Lower	Upper
82	100		
128	41.4	34.8	52.2
54	52.9	42.2	63.2



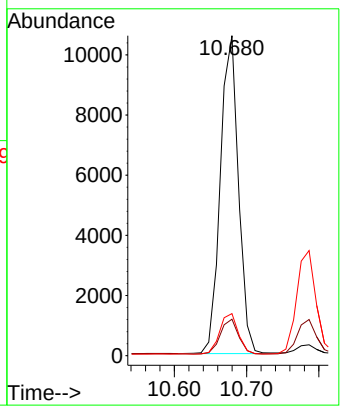


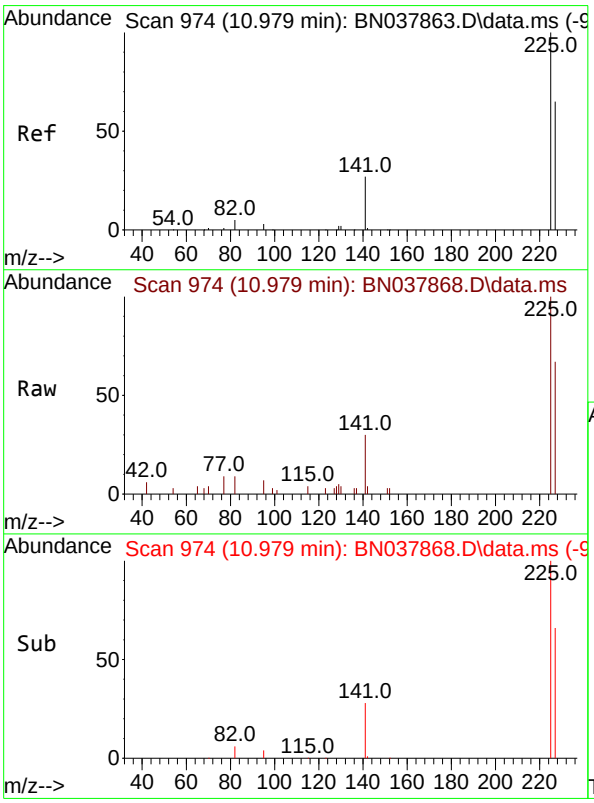
#9
Naphthalene
Concen: 0.413 ng
RT: 10.680 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:128 Resp: 18392

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.2	13.8
127	13.1	11.0	16.6

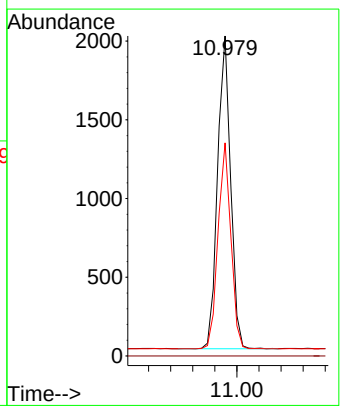


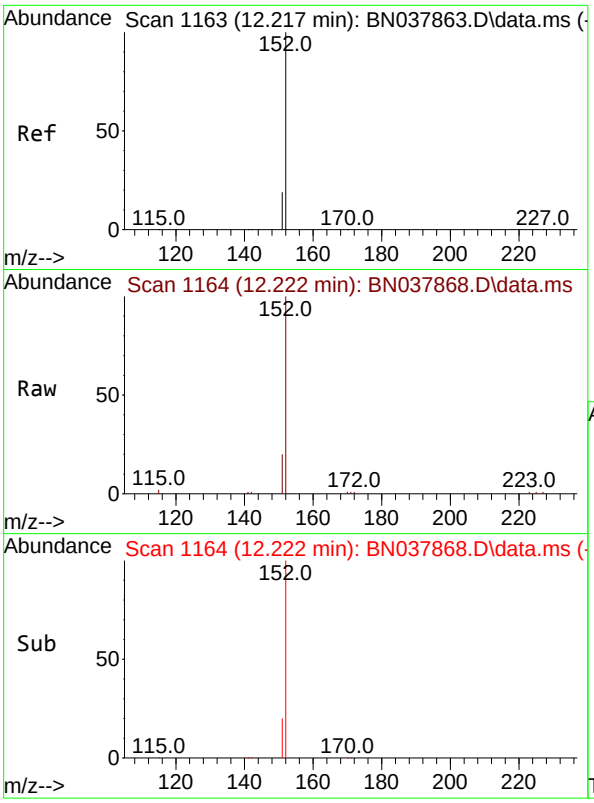


#10
Hexachlorobutadiene
Concen: 0.428 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:225 Resp: 3253

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.5	51.4	77.2



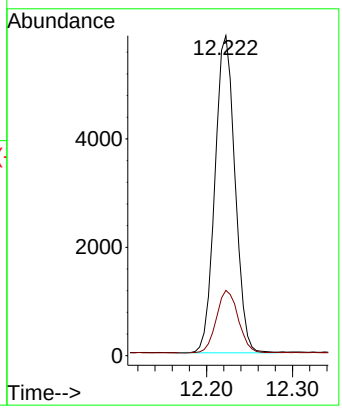


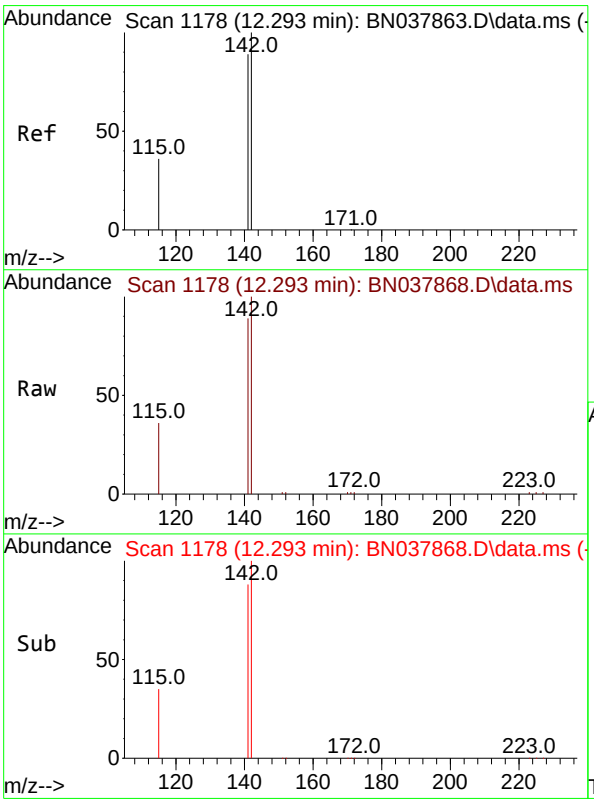
#11
2-Methylnaphthalene-d10
Concen: 0.423 ng
RT: 12.222 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:152 Resp: 9492

Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.4	26.2

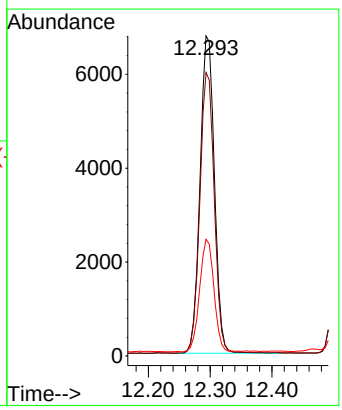


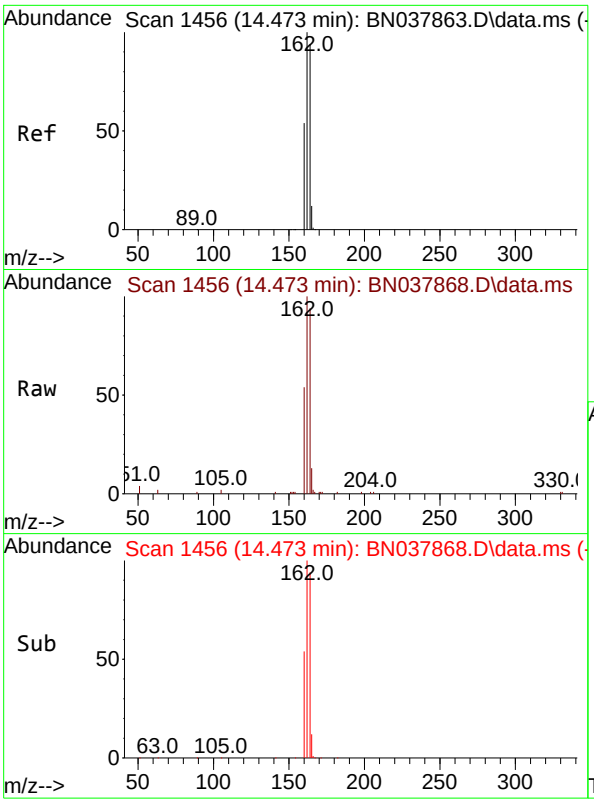


#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:142 Resp: 10904

Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.2	106.8
115	36.5	29.7	44.5



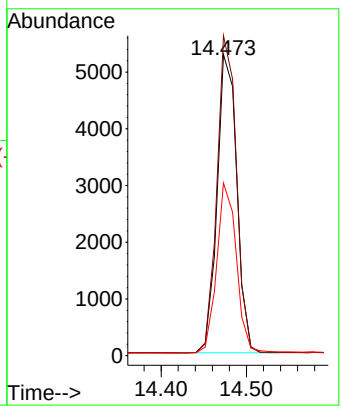


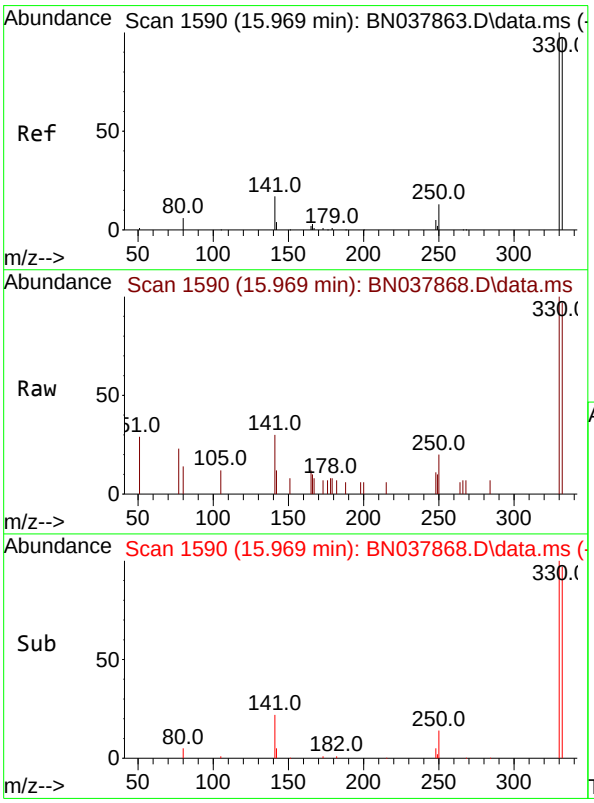
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:164 Resp: 8429

Ion	Ratio	Lower	Upper
164	100		
162	106.3	84.8	127.2
160	57.3	46.1	69.1

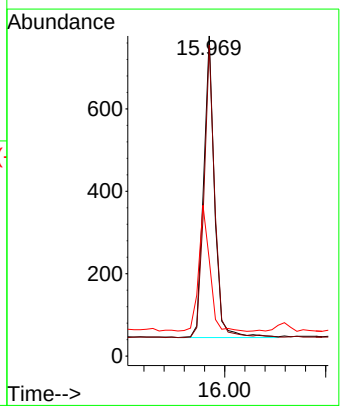


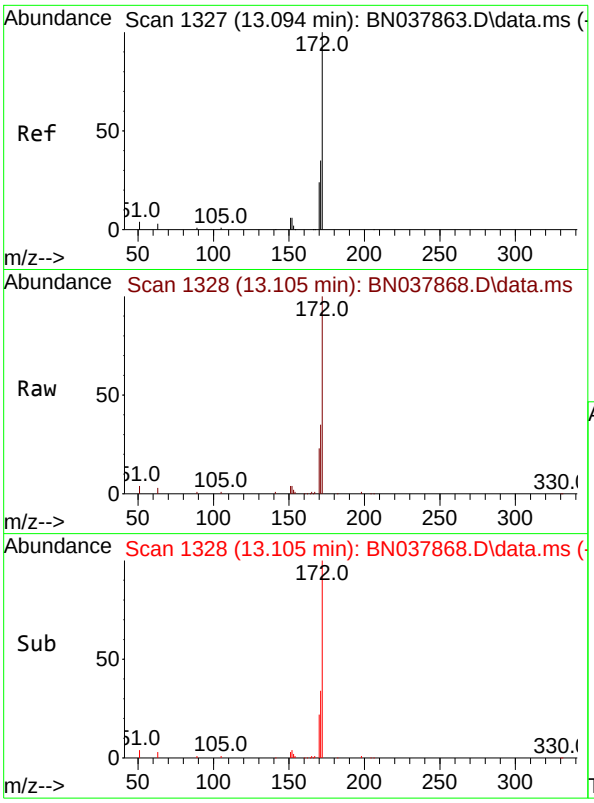


#14
2,4,6-Tribromophenol
Concen: 0.346 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:330 Resp: 1107

Ion	Ratio	Lower	Upper
330	100		
332	94.1	77.2	115.8
141	42.0	37.2	55.8



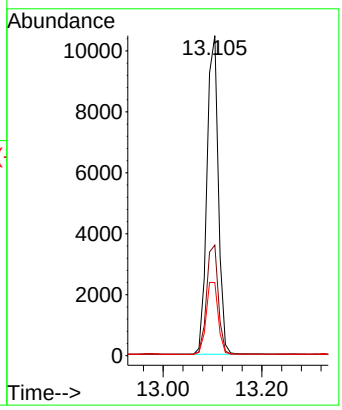


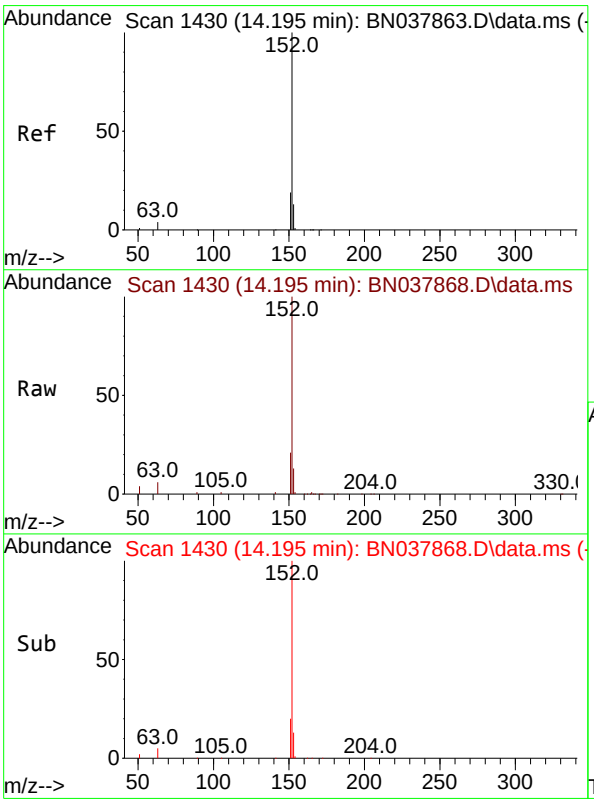
#15
2-Fluorobiphenyl
Concen: 0.485 ng
RT: 13.105 min Scan# 1
Delta R.T. 0.011 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:172 Resp: 16723

Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.6	43.0
170	22.9	19.7	29.5

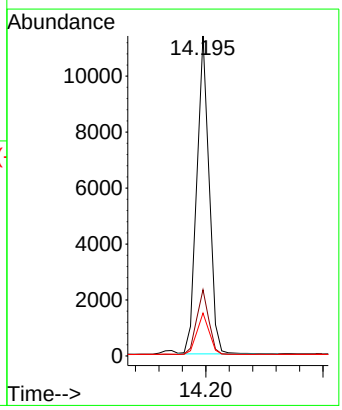


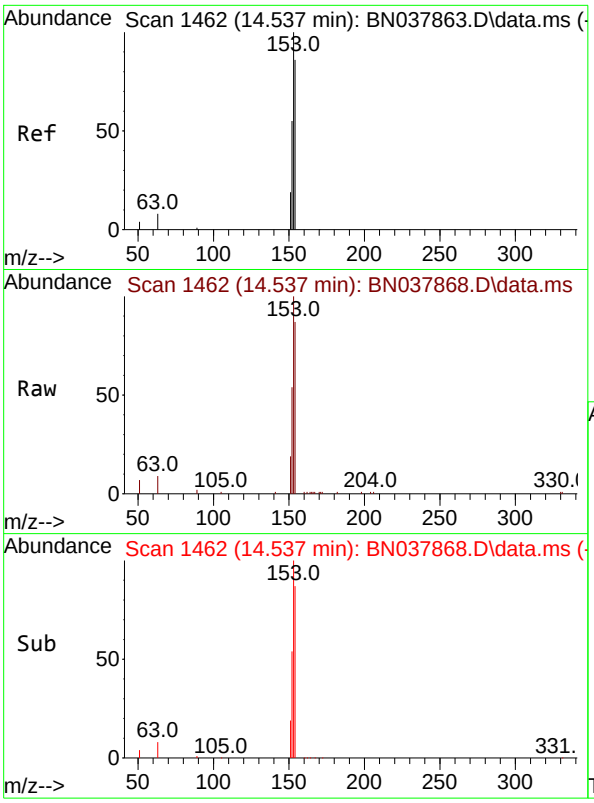


#16
Acenaphthylene
Concen: 0.437 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:152 Resp: 16721

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.8
153	13.0	10.5	15.7



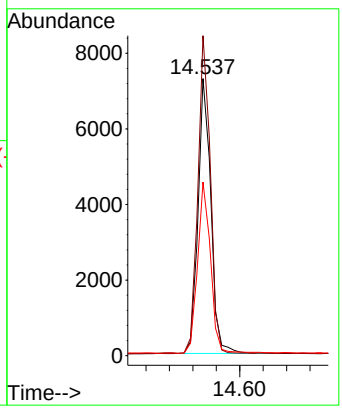


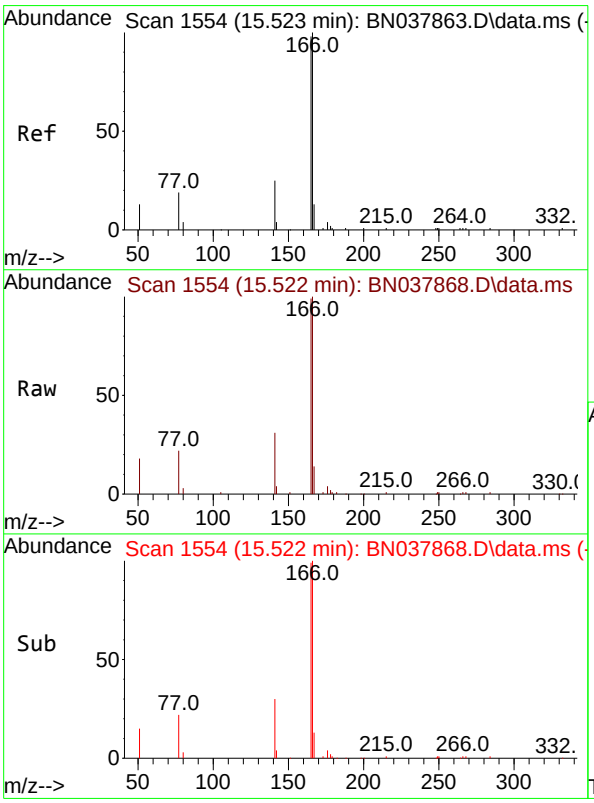
#17
Acenaphthene
Concen: 0.406 ng
RT: 14.537 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:154 Resp: 11059

Ion	Ratio	Lower	Upper
154	100		
153	112.6	90.5	135.7
152	63.5	51.8	77.8

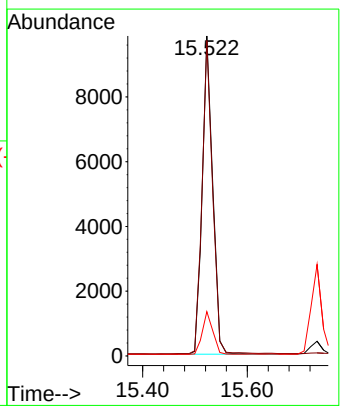


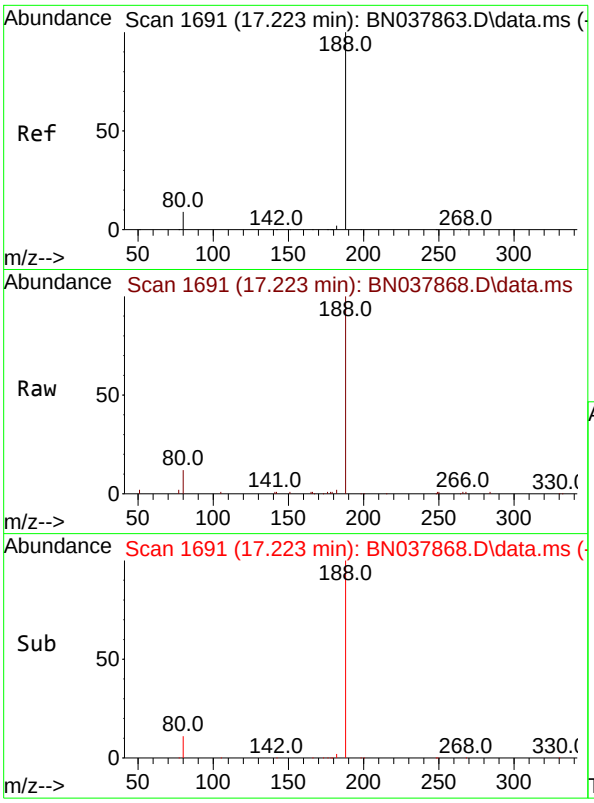


#18
Fluorene
Concen: 0.404 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:166 Resp: 13327

Ion	Ratio	Lower	Upper
166	100		
165	95.9	79.0	118.4
167	13.7	10.6	16.0



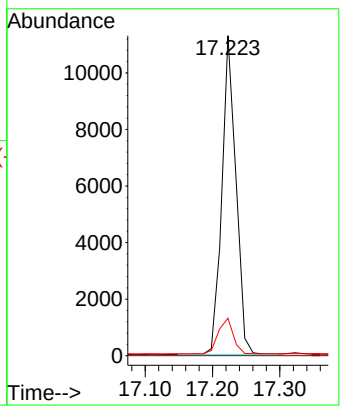


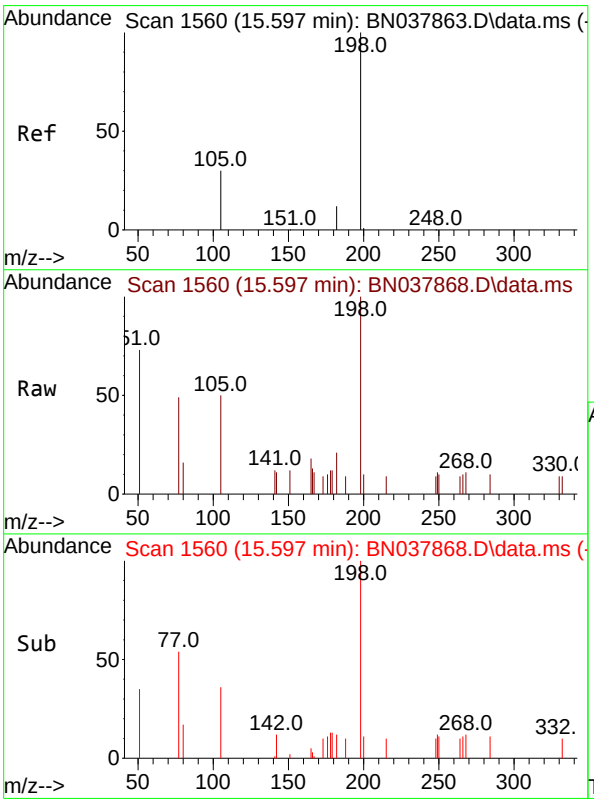
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:188 Resp: 16279

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.7	7.6	11.4#

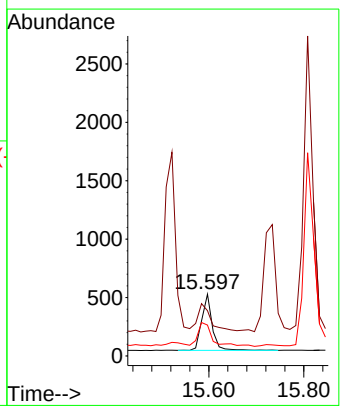


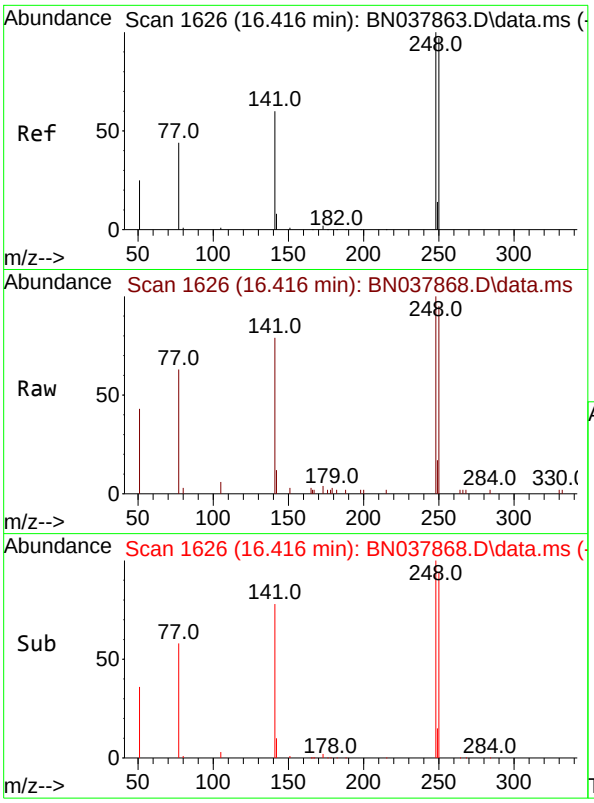


#20
4,6-Dinitro-2-methylphenol
Concen: 0.418 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:198 Resp: 737

Ion	Ratio	Lower	Upper
198	100		
51	73.3	59.1	88.7
105	49.9	41.3	61.9



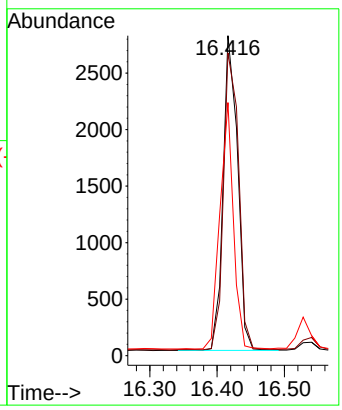


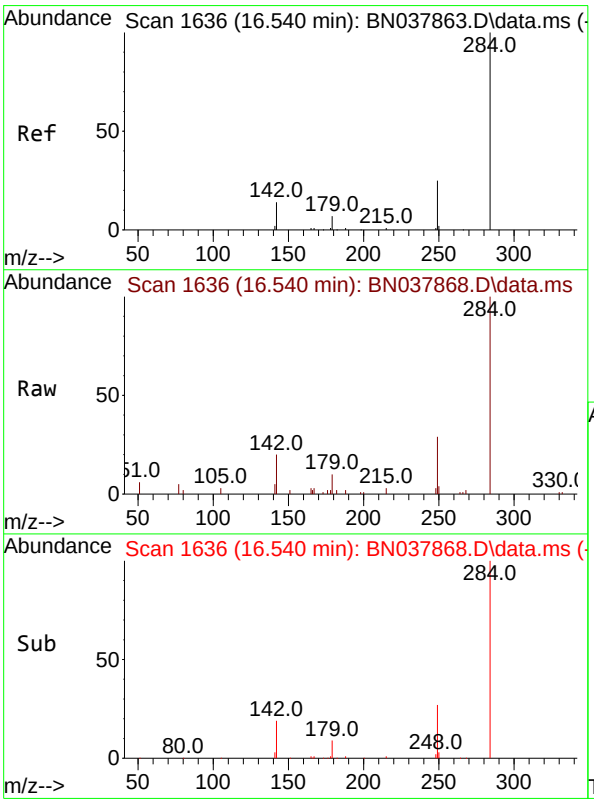
#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 16.416 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:248 Resp: 4157

Ion	Ratio	Lower	Upper
248	100		
250	94.6	77.6	116.4
141	79.1	48.8	73.2#

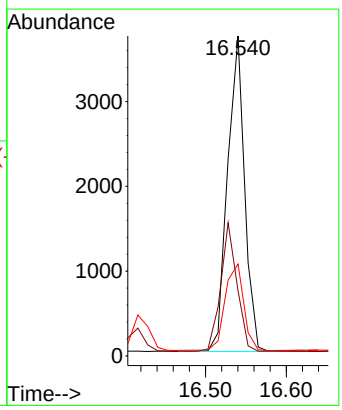


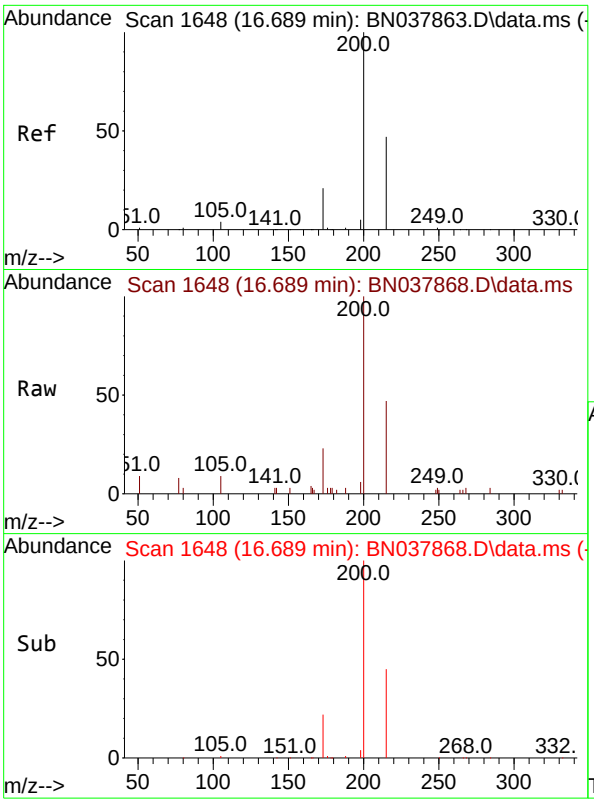


#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:284 Resp: 5455

Ion	Ratio	Lower	Upper
284	100		
142	38.9	30.9	46.3
249	30.0	23.9	35.9



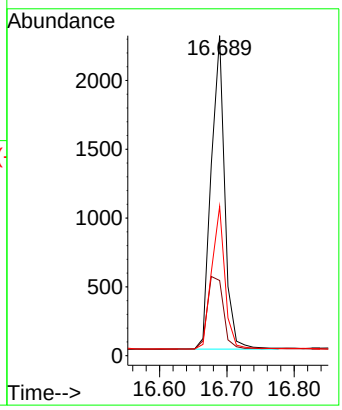


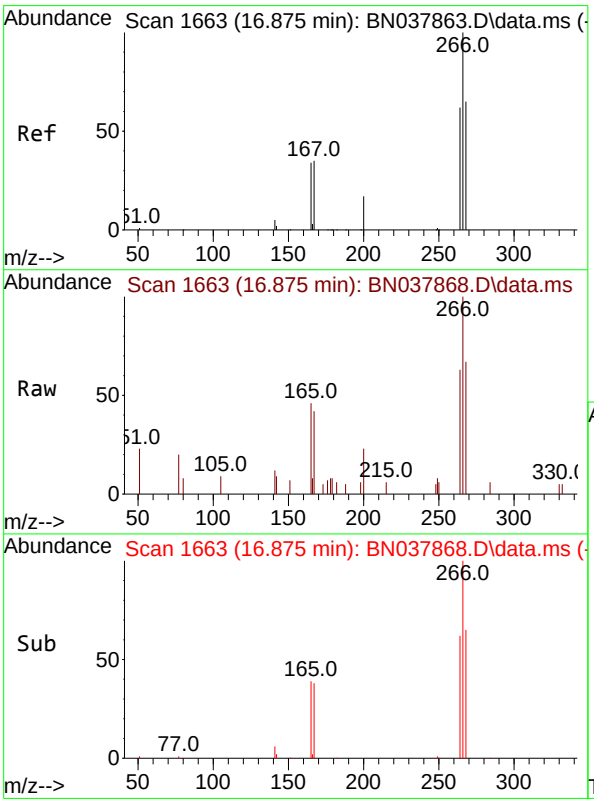
#23
Atrazine
Concen: 0.396 ng
RT: 16.689 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:200 Resp: 3196

Ion	Ratio	Lower	Upper
200	100		
173	23.5	18.3	27.5
215	46.6	38.6	58.0

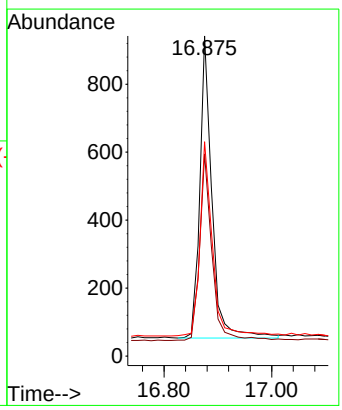


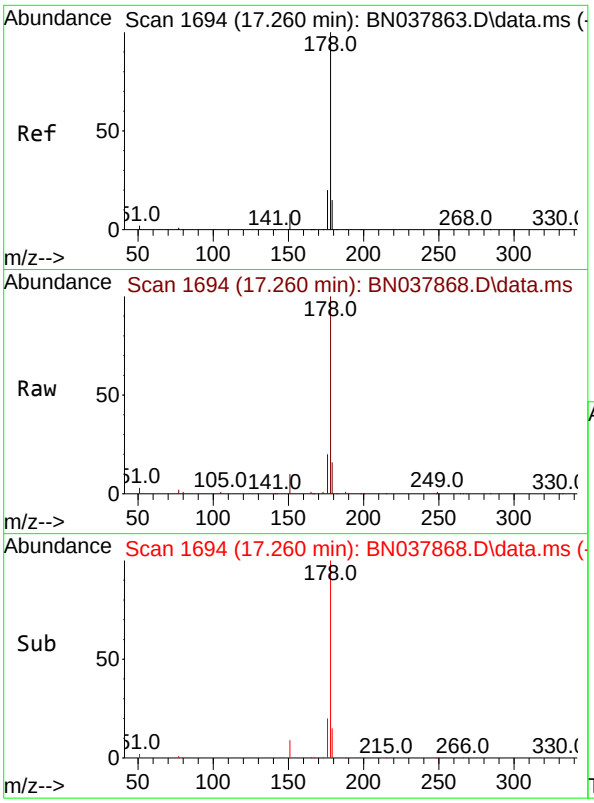


#24
Pentachlorophenol
Concen: 0.316 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:266 Resp: 1396

Ion	Ratio	Lower	Upper
266	100		
264	63.8	50.9	76.3
268	66.0	54.3	81.5



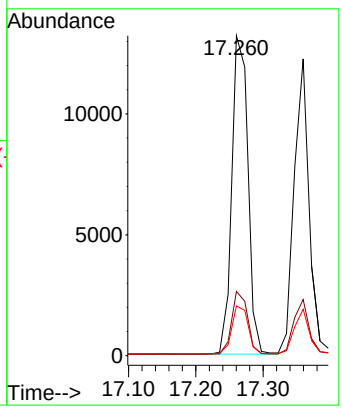


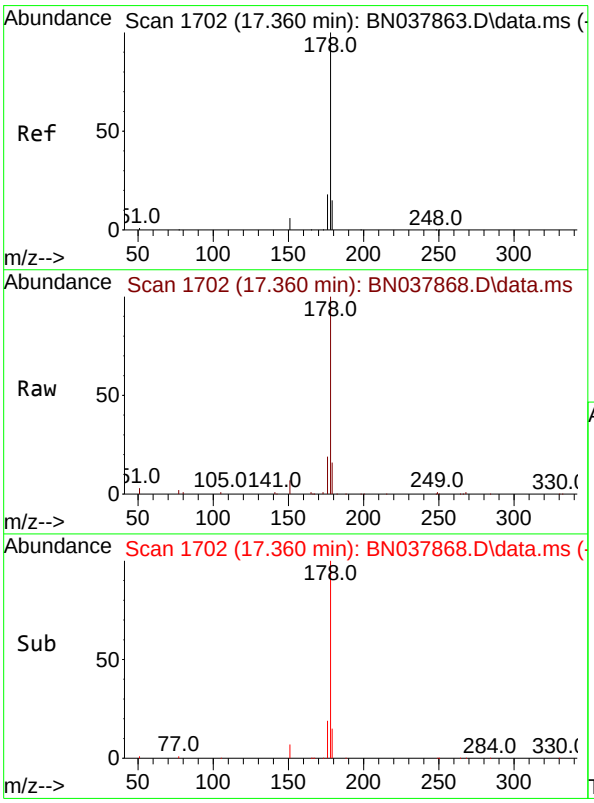
#25
Phenanthrene
Concen: 0.411 ng
RT: 17.260 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:178 Resp: 22020

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.7	23.5
179	15.4	12.3	18.5

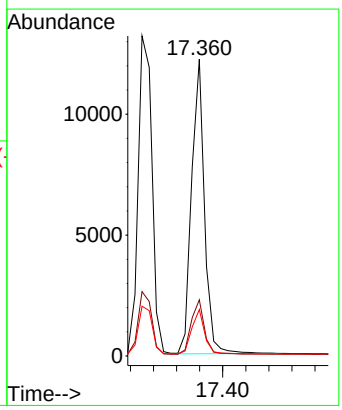


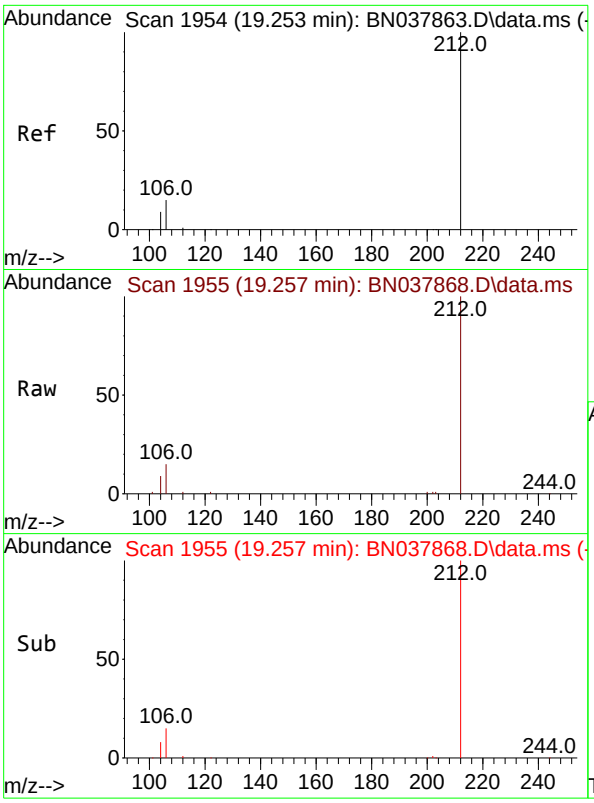


#26
Anthracene
Concen: 0.408 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:178 Resp: 18967

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.4
179	15.0	12.3	18.5



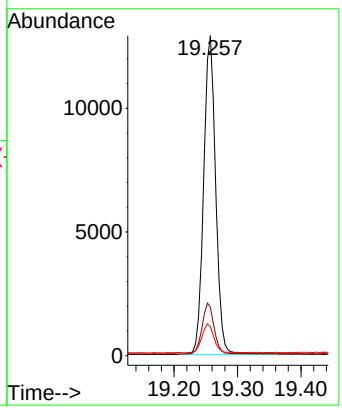


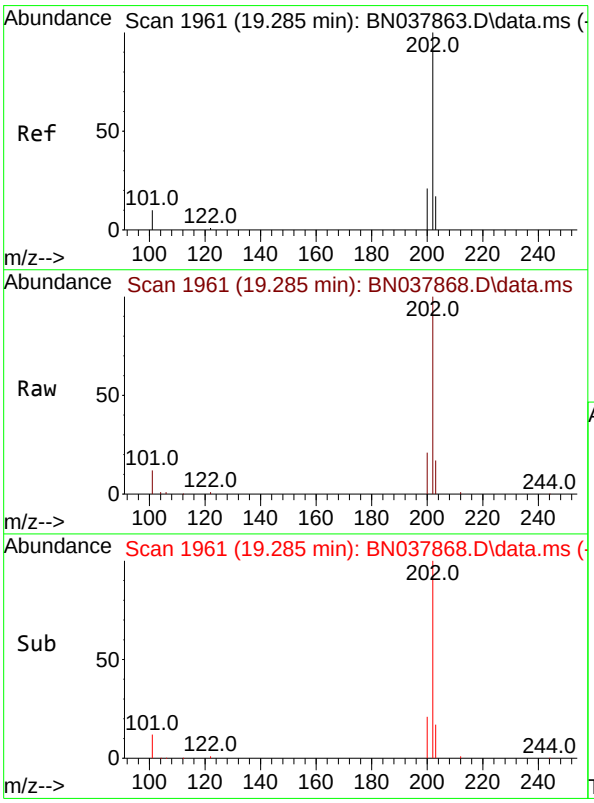
#27
Fluoranthene-d10
Concen: 0.413 ng
RT: 19.257 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:212 Resp: 16910

Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.6	19.0
104	9.1	7.4	11.0

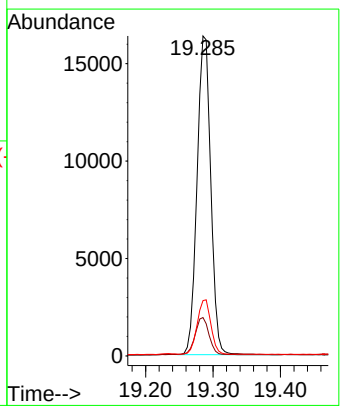


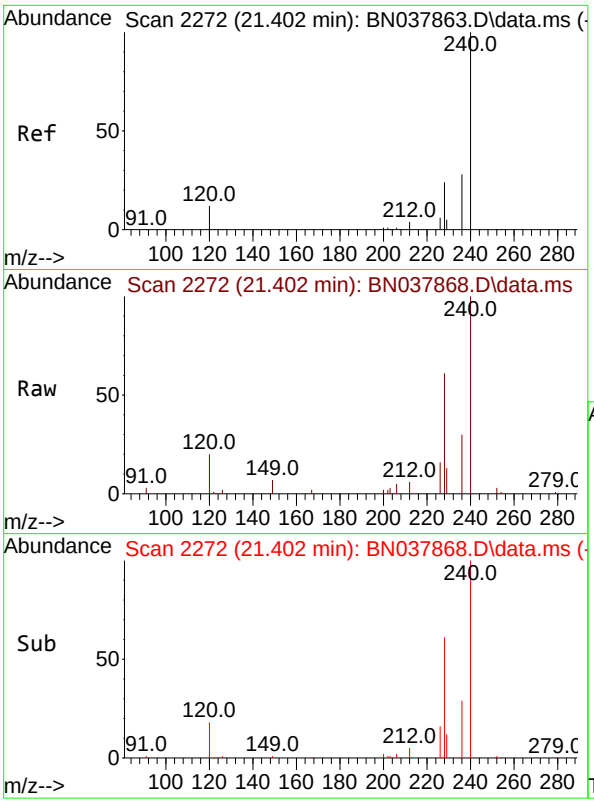


#28
Fluoranthene
Concen: 0.391 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:202 Resp: 23044

Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.3	13.9
203	17.0	13.6	20.4



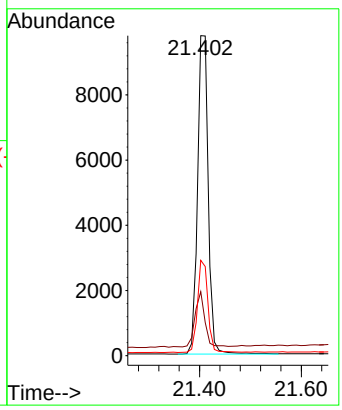


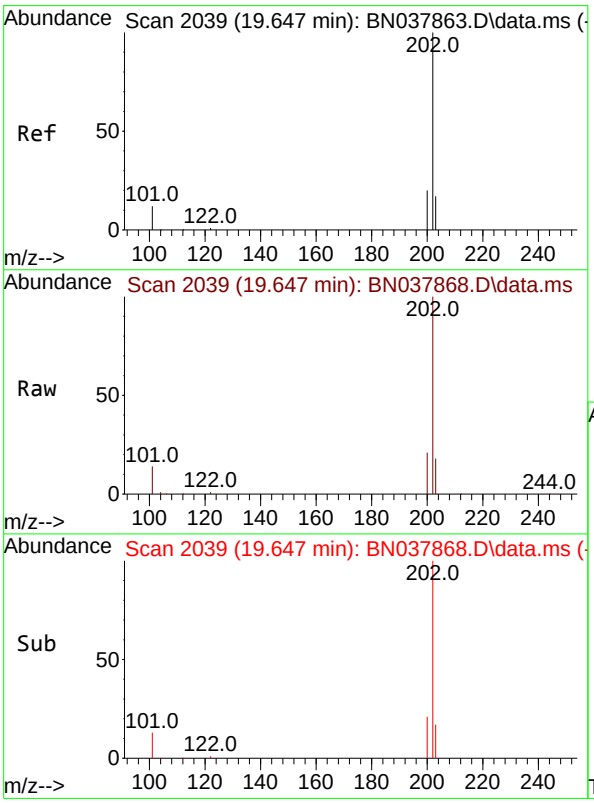
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:240 Resp: 14204

Ion	Ratio	Lower	Upper
240	100		
120	20.0	11.4	17.2#
236	29.8	23.0	34.6

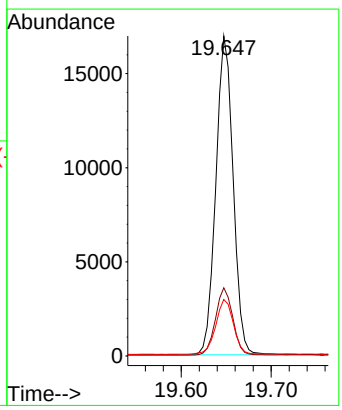


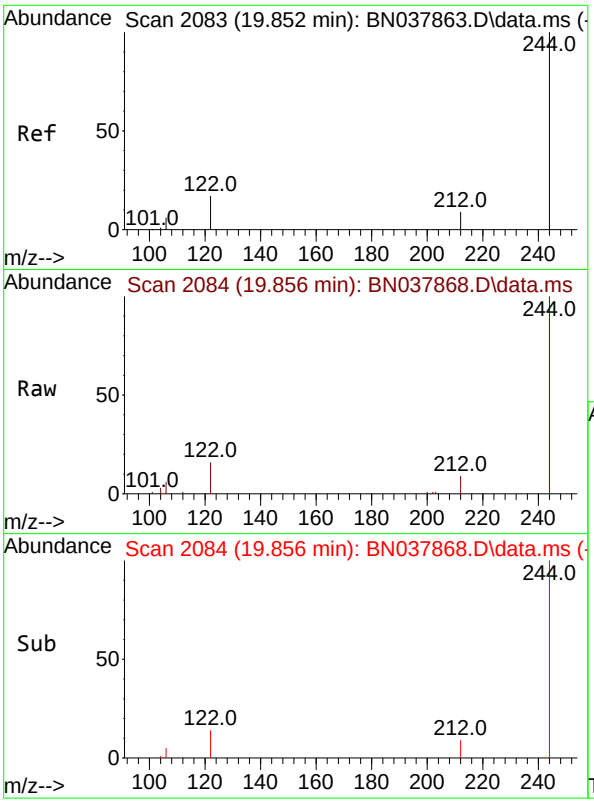


#30
Pyrene
Concen: 0.402 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:202 Resp: 22563

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.7	14.2	21.4



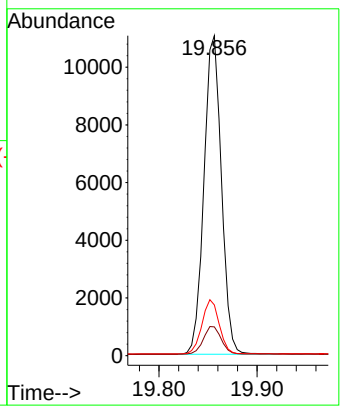


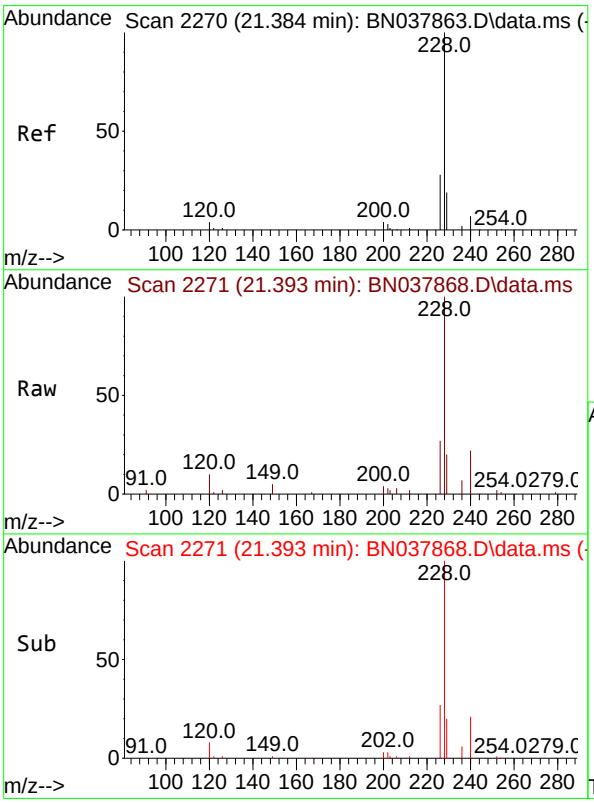
#31
Terphenyl-d14
Concen: 0.482 ng
RT: 19.856 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:244 Resp: 13646

Ion	Ratio	Lower	Upper
244	100		
212	9.0	7.6	11.4
122	15.9	13.9	20.9

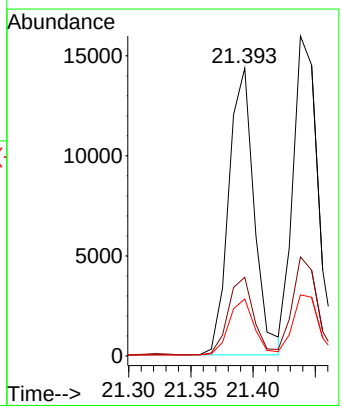


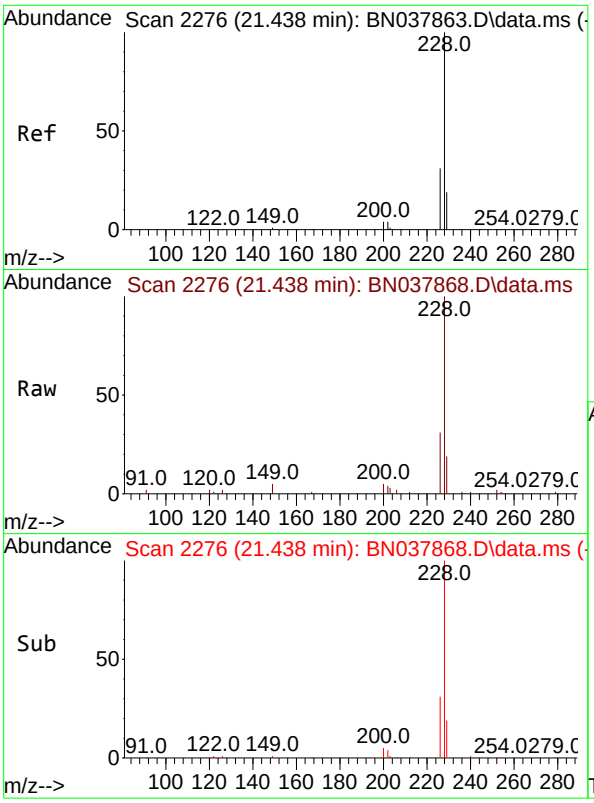


#32
Benzo(a)anthracene
Concen: 0.411 ng
RT: 21.393 min Scan# 2271
Delta R.T. 0.009 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:228 Resp: 20398

Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.6	33.8
229	19.8	15.6	23.4



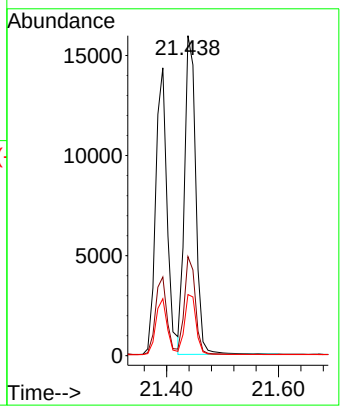


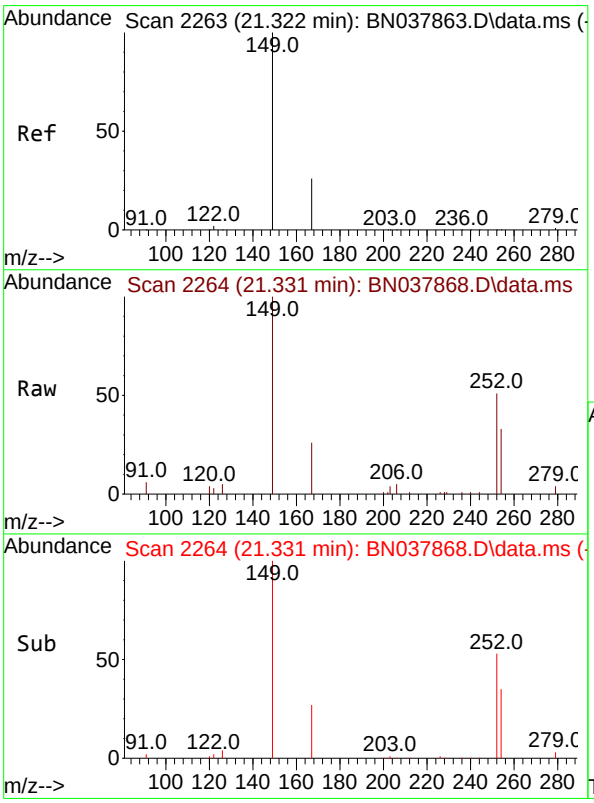
#33
Chrysene
Concen: 0.414 ng
RT: 21.438 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:228 Resp: 22204

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.6	37.0
229	19.1	15.6	23.4

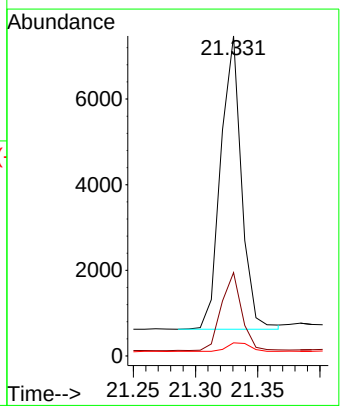


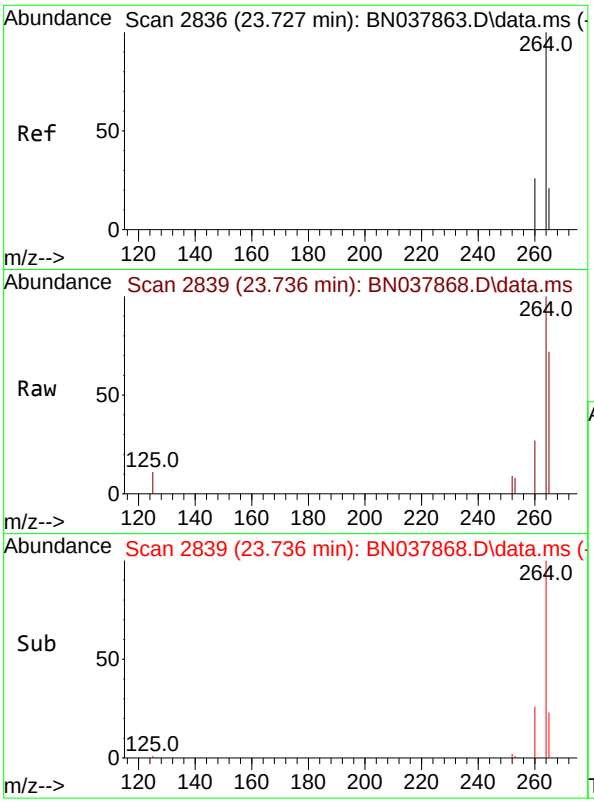


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.404 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.009 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:149 Resp: 7939

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.4	30.6
279	3.2	2.4	3.6



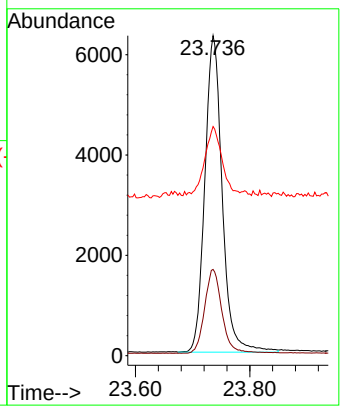


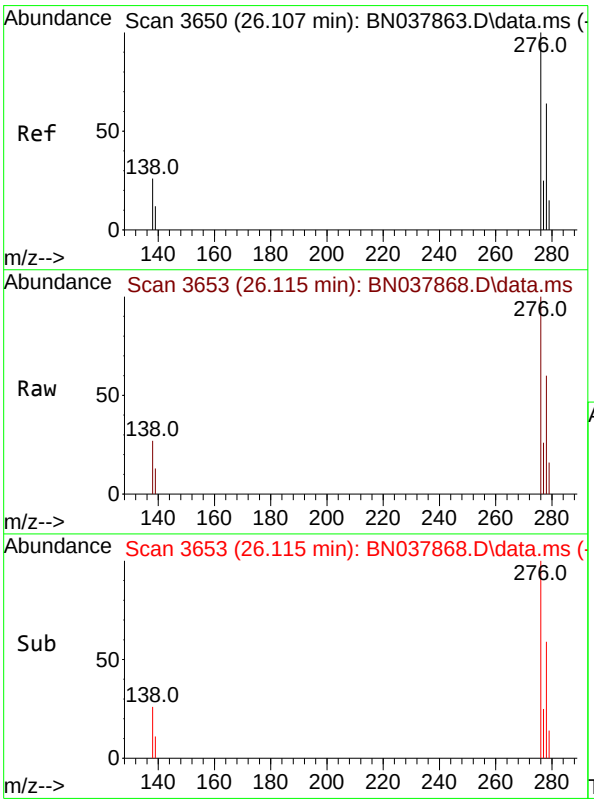
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:264 Resp: 13265

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.5	32.3
265	71.6	53.8	80.6

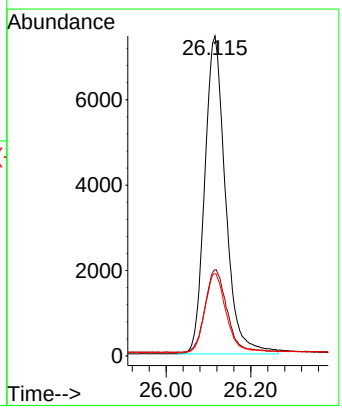


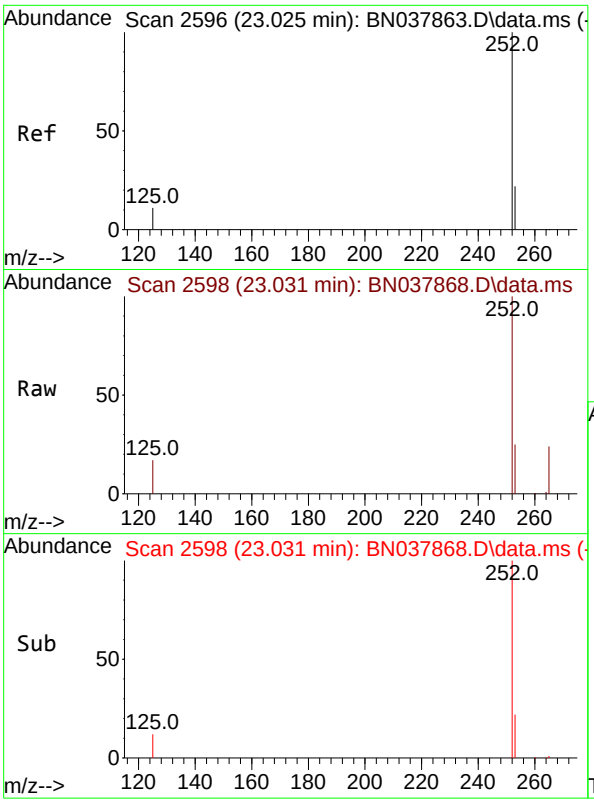


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.418 ng
RT: 26.115 min Scan# 3653
Delta R.T. 0.009 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:276 Resp: 25340

Ion	Ratio	Lower	Upper
276	100		
138	27.5	21.4	32.0
277	25.0	20.3	30.5



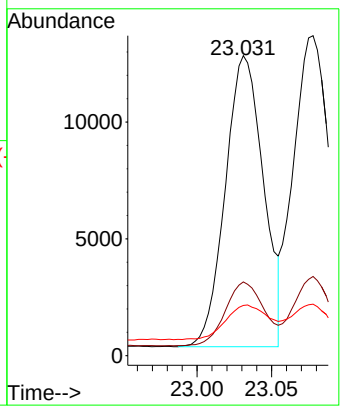


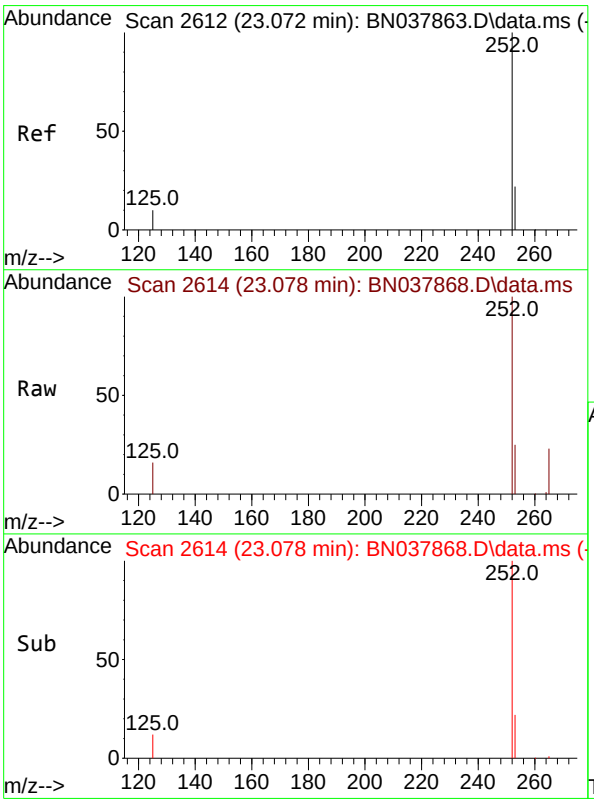
#37
Benzo(b)fluoranthene
Concen: 0.388 ng
RT: 23.031 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:252 Resp: 22193

Ion	Ratio	Lower	Upper
252	100		
253	24.6	19.4	29.0
125	16.8	13.0	19.4

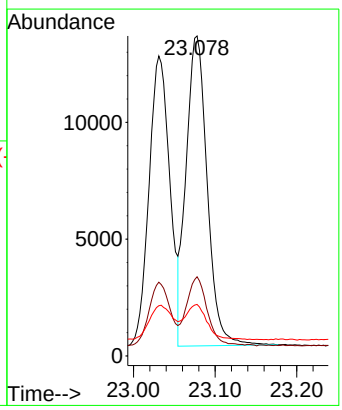


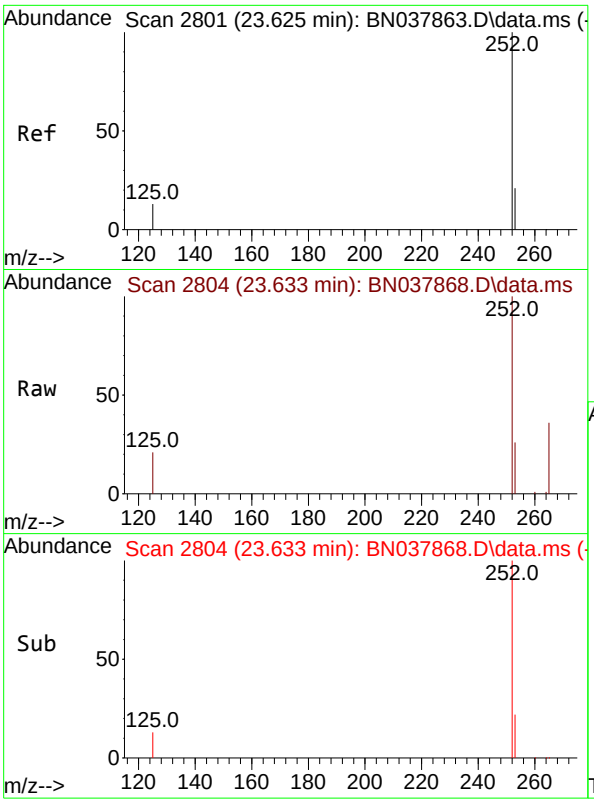


#38
Benzo(k)fluoranthene
Concen: 0.415 ng
RT: 23.078 min Scan# 2614
Delta R.T. 0.006 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:252 Resp: 23886

Ion	Ratio	Lower	Upper
252	100		
253	24.7	19.5	29.3
125	16.1	13.0	19.4



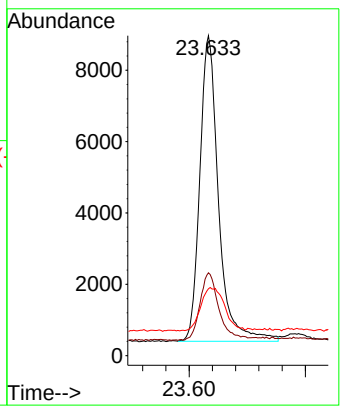


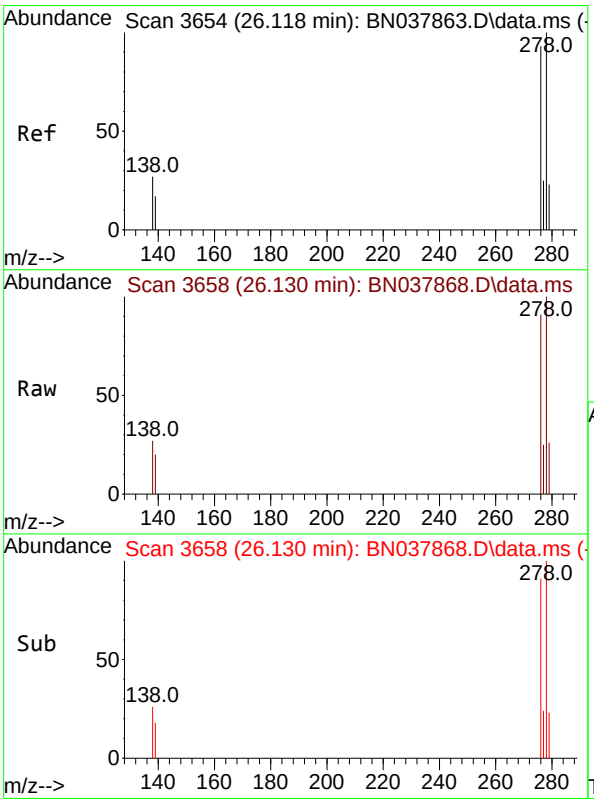
#39
Benzo(a)pyrene
Concen: 0.422 ng
RT: 23.633 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:252 Resp: 19091

Ion	Ratio	Lower	Upper
252	100		
253	25.9	20.6	30.8
125	20.9	16.7	25.1

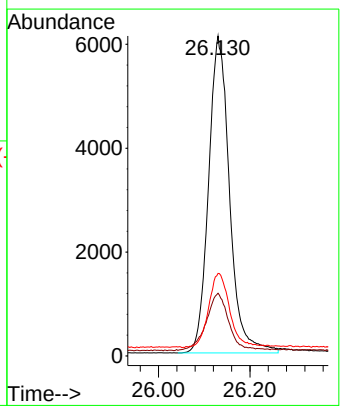


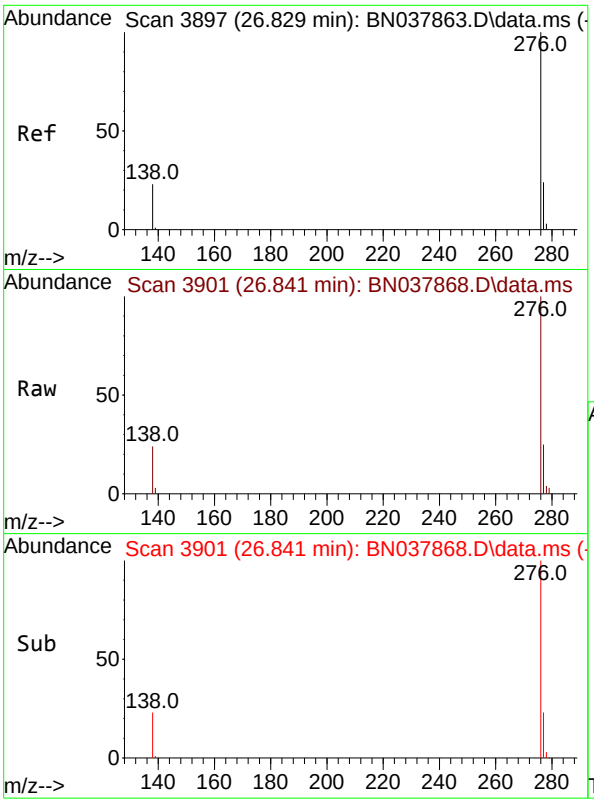


#40
Dibenzo(a,h)anthracene
Concen: 0.411 ng
RT: 26.130 min Scan# 3658
Delta R.T. 0.012 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:278 Resp: 19441

Ion	Ratio	Lower	Upper
278	100		
139	19.6	15.4	23.2
279	25.8	20.8	31.2



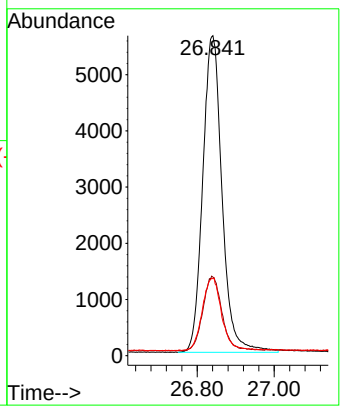


#41
Benzo(g,h,i)perylene
Concen: 0.394 ng
RT: 26.841 min Scan# 3
Delta R.T. 0.012 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Tgt Ion:276 Resp: 19570

Ion	Ratio	Lower	Upper
276	100		
277	24.5	20.2	30.4
138	24.1	19.8	29.8



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037868.D
Acq On : 23 Sep 2025 16:28
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Quant Time: Sep 24 11:02:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
2		1,4-Dioxane	0.406	0.484	-19.2	118	0.00
3		n-Nitrosodimethylamine	0.540	0.551	-2.0	106	0.00
4	S	2-Fluorophenol	0.913	0.898	1.6	105	0.00
5	S	Phenol-d6	1.199	1.144	4.6	102	0.00
6		bis(2-Chloroethyl)ether	1.113	1.225	-10.1	113	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	102	0.00
8	S	Nitrobenzene-d5	0.305	0.337	-10.5	119	0.00
9		Naphthalene	1.102	1.138	-3.3	111	0.01
10		Hexachlorobutadiene	0.188	0.201	-6.9	113	0.00
11	SURR	2-Methylnaphthalene-d10	0.556	0.587	-5.6	121	0.00
12		2-Methylnaphthalene	0.720	0.675	6.2	103	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
14	S	2,4,6-Tribromophenol	0.152	0.131	13.8	99	0.00
15	S	2-Fluorobiphenyl	1.638	1.984	-21.1	130	0.01
16		Acenaphthylene	1.816	1.984	-9.3	122	0.00
17		Acenaphthene	1.294	1.312	-1.4	112	0.00
18		Fluorene	1.565	1.581	-1.0	111	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00
20		4,6-Dinitro-2-methylphenol	0.057	0.045	21.1	106	0.00
21		4-Bromophenyl-phenylether	0.261	0.255	2.3	107	0.00
22		Hexachlorobenzene	0.316	0.335	-6.0	112	0.00
23		Atrazine	0.199	0.196	1.5	117	0.00
24		Pentachlorophenol	0.108	0.086	20.4	95	0.00
25		Phenanthrene	1.316	1.353	-2.8	112	0.00
26		Anthracene	1.142	1.165	-2.0	116	0.00
27	SURR	Fluoranthene-d10	1.006	1.039	-3.3	120	0.00
28		Fluoranthene	1.450	1.416	2.3	110	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	105	0.00
30		Pyrene	1.579	1.588	-0.6	109	0.00
31	S	Terphenyl-d14	0.797	0.961	-20.6	133	0.00
32		Benzo(a)anthracene	1.398	1.436	-2.7	116	0.00
33		Chrysene	1.512	1.563	-3.4	112	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.559	-1.1	120	0.00
35	I	Perylene-d12	1.000	1.000	0.0	105	0.00
36		Indeno(1,2,3-cd)pyrene	1.828	1.910	-4.5	121	0.00
37		Benzo(b)fluoranthene	1.725	1.673	3.0	108	0.00
38		Benzo(k)fluoranthene	1.736	1.801	-3.7	119	0.00
39	C	Benzo(a)pyrene	1.364	1.439	-5.5	123	0.00
40		Dibenzo(a,h)anthracene	1.427	1.466	-2.7	119	0.01
41		Benzo(g,h,i)perylene	1.499	1.475	1.6	111	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037868.D
Acq On : 23 Sep 2025 16:28
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Quant Time: Sep 24 11:02:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	100	0.00
2		1,4-Dioxane	0.400	0.477	-19.2	118	0.00
3		n-Nitrosodimethylamine	0.400	0.408	-2.0	106	0.00
4	S	2-Fluorophenol	0.400	0.394	1.5	105	0.00
5	S	Phenol-d6	0.400	0.382	4.5	102	0.00
6		bis(2-Chloroethyl)ether	0.400	0.440	-10.0	113	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	102	0.00
8	S	Nitrobenzene-d5	0.400	0.442	-10.5	119	0.00
9		Naphthalene	0.400	0.413	-3.2	111	0.01
10		Hexachlorobutadiene	0.400	0.428	-7.0	113	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.423	-5.7	121	0.00
12		2-Methylnaphthalene	0.400	0.375	6.3	103	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	102	0.00
14	S	2,4,6-Tribromophenol	0.400	0.346	13.5	99	0.00
15	S	2-Fluorobiphenyl	0.400	0.485	-21.2	130	0.01
16		Acenaphthylene	0.400	0.437	-9.2	122	0.00
17		Acenaphthene	0.400	0.406	-1.5	112	0.00
18		Fluorene	0.400	0.404	-1.0	111	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	102	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.418	-4.5	106	0.00
21		4-Bromophenyl-phenylether	0.400	0.392	2.0	107	0.00
22		Hexachlorobenzene	0.400	0.424	-6.0	112	0.00
23		Atrazine	0.400	0.396	1.0	117	0.00
24		Pentachlorophenol	0.400	0.316	21.0	95	0.00
25		Phenanthrene	0.400	0.411	-2.7	112	0.00
26		Anthracene	0.400	0.408	-2.0	116	0.00
27	SURR	Fluoranthene-d10	0.400	0.413	-3.2	120	0.00
28		Fluoranthene	0.400	0.391	2.3	110	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	105	0.00
30		Pyrene	0.400	0.402	-0.5	109	0.00
31	S	Terphenyl-d14	0.400	0.482	-20.5	133	0.00
32		Benzo(a)anthracene	0.400	0.411	-2.7	116	0.00
33		Chrysene	0.400	0.414	-3.5	112	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.404	-1.0	120	0.00
35	I	Perylene-d12	0.400	0.400	0.0	105	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.418	-4.5	121	0.00
37		Benzo(b)fluoranthene	0.400	0.388	3.0	108	0.00
38		Benzo(k)fluoranthene	0.400	0.415	-3.7	119	0.00
39	C	Benzo(a)pyrene	0.400	0.422	-5.5	123	0.00
40		Dibenzo(a,h)anthracene	0.400	0.411	-2.7	119	0.01
41		Benzo(g,h,i)perylene	0.400	0.394	1.5	111	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3097

Instrument ID: BNA_N Calibration Date/Time: 09/18/2025 02:46

Lab File ID: BN037759.D Init. Calib. Date(s): 09/11/2025 09/11/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.511		-3.6	20.0
Fluoranthene-d10	1.004	0.949		-5.5	20.0
2-Fluorophenol	0.918	0.939		2.3	20.0
Phenol-d6	1.191	1.179		-1.0	20.0
Nitrobenzene-d5	0.293	0.286		-2.4	20.0
2-Fluorobiphenyl	1.673	1.646		-1.6	20.0
2,4,6-Tribromophenol	0.104	0.120		15.4	20.0
Terphenyl-d14	0.812	0.735		-9.5	20.0
1,4-Dioxane	0.417	0.432		3.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037759.D
Acq On : 18 Sep 2025 02:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 18 05:02:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

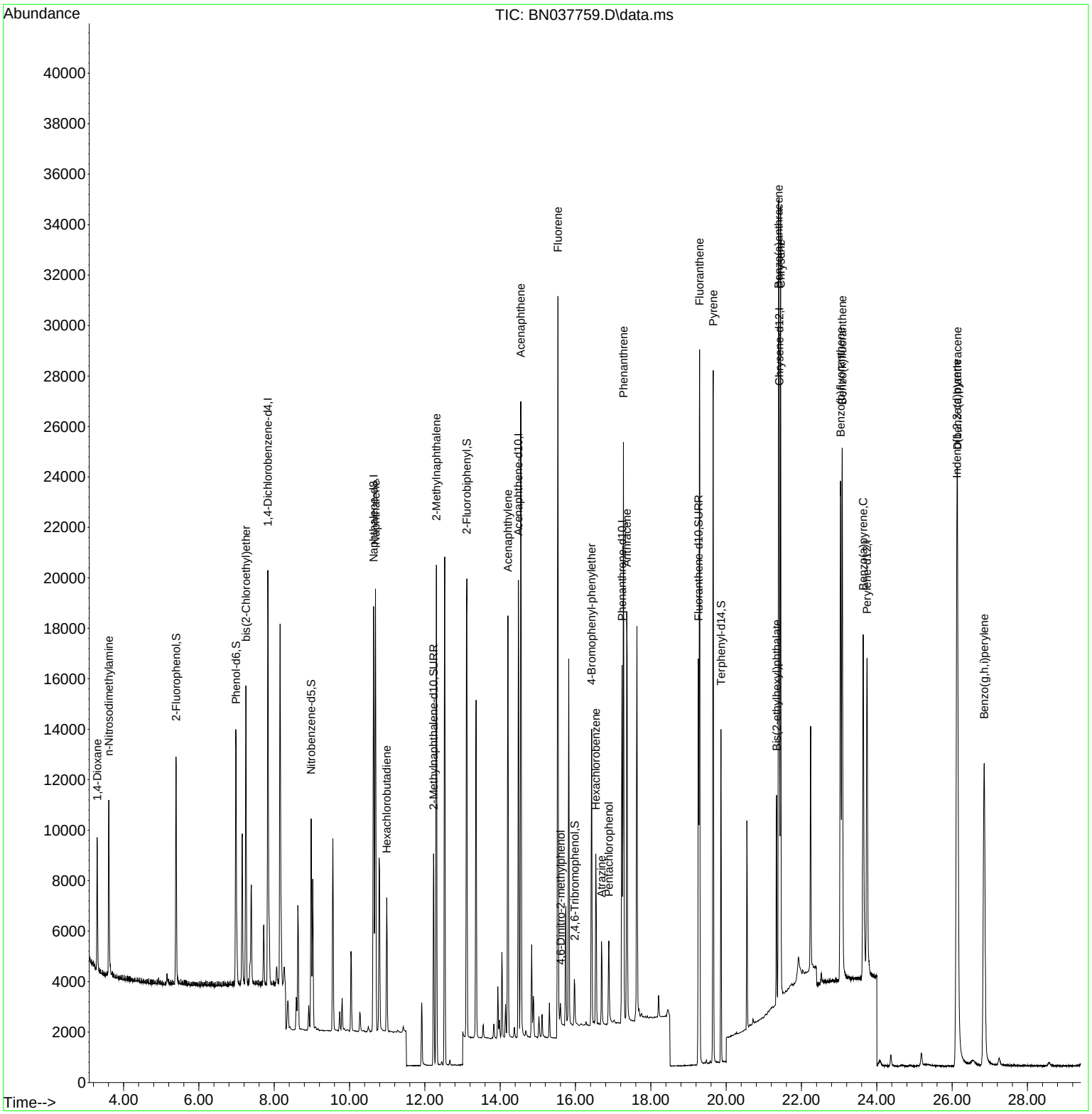
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.833	152	8012	0.400	ng		0.00
7) Naphthalene-d8	10.637	136	21664	0.400	ng		-0.01
13) Acenaphthene-d10	14.484	164	10192	0.400	ng		-0.01
19) Phenanthrene-d10	17.235	188	18613	0.400	ng		# 0.00
29) Chrysene-d12	21.411	240	16797	0.400	ng		0.00
35) Perylene-d12	23.741	264	18043	0.400	ng		-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.399	112	7521	0.409	ng		0.00
5) Phenol-d6	6.988	99	9450	0.396	ng		0.00
8) Nitrobenzene-d5	8.982	82	6195	0.391	ng		-0.01
11) 2-Methylnaphthalene-d10	12.233	152	11065	0.386	ng		-0.01
14) 2,4,6-Tribromophenol	15.982	330	1222	0.460	ng		0.00
15) 2-Fluorobiphenyl	13.115	172	16772	0.393	ng		0.00
27) Fluoranthene-d10	19.267	212	17669	0.378	ng		0.00
31) Terphenyl-d14	19.861	244	12341	0.362	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.304	88	3460	0.415	ng		95
3) n-Nitrosodimethylamine	3.608	42	4100	0.376	ng		91
6) bis(2-Chloroethyl)ether	7.248	93	8459	0.397	ng		99
9) Naphthalene	10.690	128	23012	0.389	ng		99
10) Hexachlorobutadiene	10.989	225	4127	0.385	ng	#	99
12) 2-Methylnaphthalene	12.309	142	14242	0.389	ng		98
16) Acenaphthylene	14.206	152	17762	0.380	ng		99
17) Acenaphthene	14.548	154	12273	0.388	ng		99
18) Fluorene	15.535	166	14482	0.378	ng		99
20) 4,6-Dinitro-2-methylph...	15.609	198	576	0.334	ng		95
21) 4-Bromophenyl-phenylether	16.429	248	4671	0.385	ng	#	84
22) Hexachlorobenzene	16.540	284	5435	0.389	ng		99
23) Atrazine	16.689	200	2899	0.375	ng	#	92
24) Pentachlorophenol	16.888	266	1908	0.471	ng		98
25) Phenanthrene	17.273	178	22675	0.387	ng		100
26) Anthracene	17.360	178	19975	0.385	ng		99
28) Fluoranthene	19.294	202	24904	0.387	ng		99
30) Pyrene	19.657	202	24982	0.380	ng		100
32) Benzo(a)anthracene	21.393	228	22983	0.392	ng		100
33) Chrysene	21.447	228	24936	0.397	ng		99
34) Bis(2-ethylhexyl)phtha...	21.340	149	7755	0.446	ng		99
36) Indeno(1,2,3-cd)pyrene	26.124	276	32683	0.431	ng		99
37) Benzo(b)fluoranthene	23.037	252	27058	0.381	ng		99
38) Benzo(k)fluoranthene	23.084	252	28281	0.390	ng		99
39) Benzo(a)pyrene	23.639	252	21959	0.386	ng		98
40) Dibenzo(a,h)anthracene	26.142	278	26135	0.432	ng		97
41) Benzo(g,h,i)perylene	26.852	276	27338	0.403	ng		97

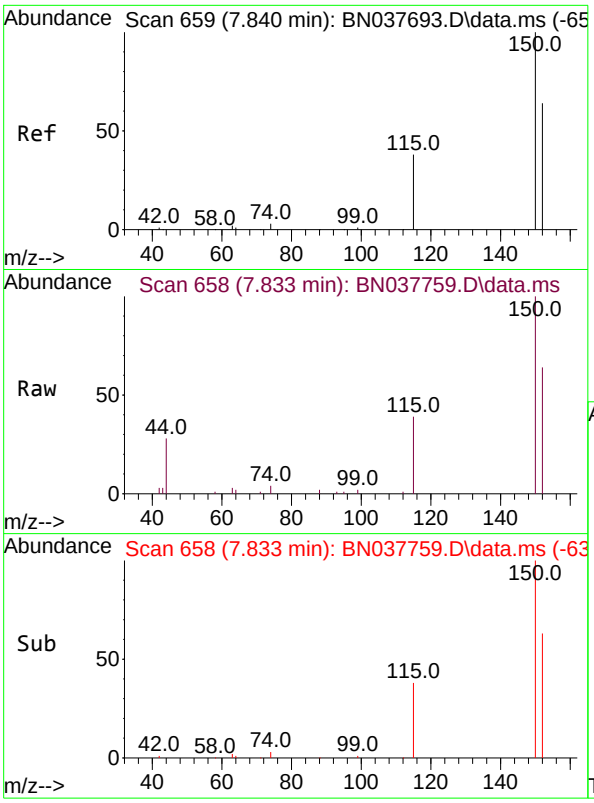
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037759.D
Acq On : 18 Sep 2025 02:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 18 05:02:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



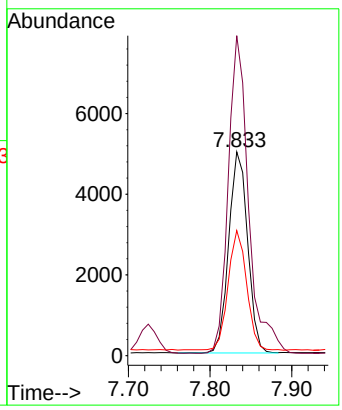


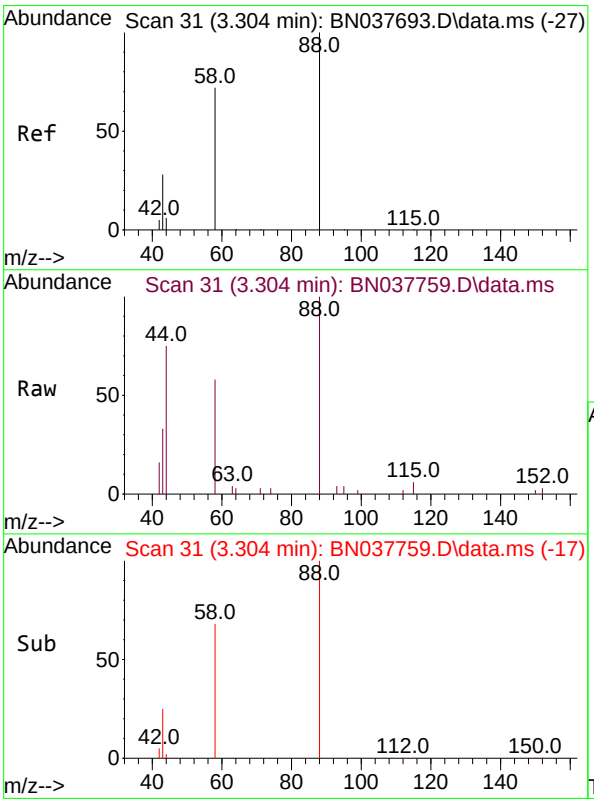
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 8012

Ion	Ratio	Lower	Upper
152	100		
150	157.1	124.5	186.7
115	61.4	49.2	73.8

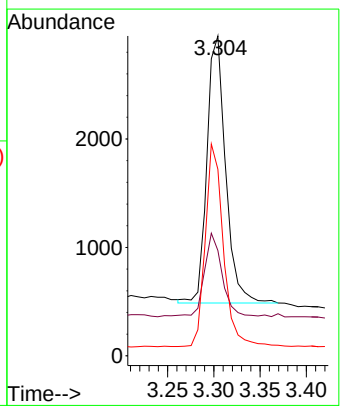


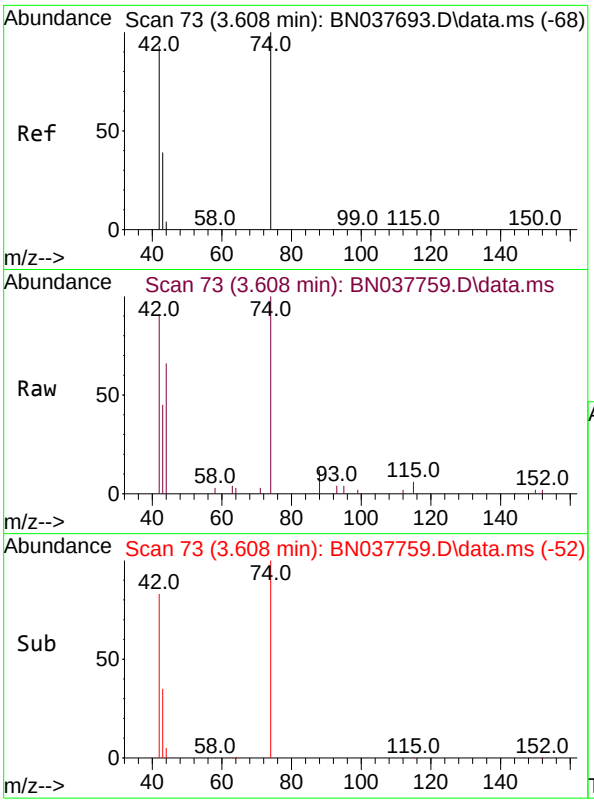


#2
1,4-Dioxane
Concen: 0.415 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion: 88 Resp: 3460

Ion	Ratio	Lower	Upper
88	100		
43	29.8	26.8	40.2
58	73.4	61.9	92.9



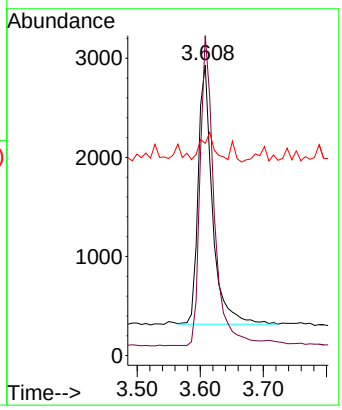


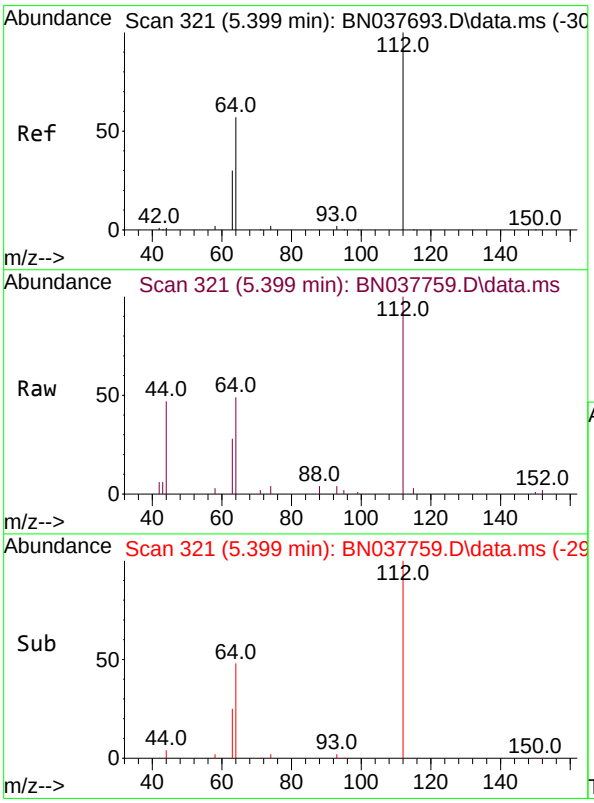
#3
n-Nitrosodimethylamine
Concen: 0.376 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 4100

Ion	Ratio	Lower	Upper
42	100		
74	117.7	86.0	129.0
44	9.8	8.4	12.6

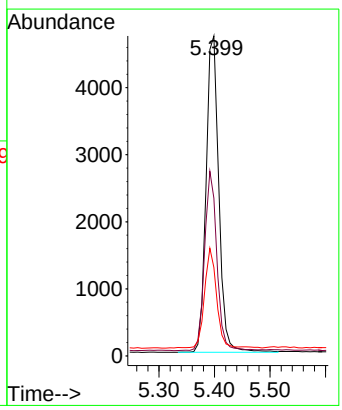


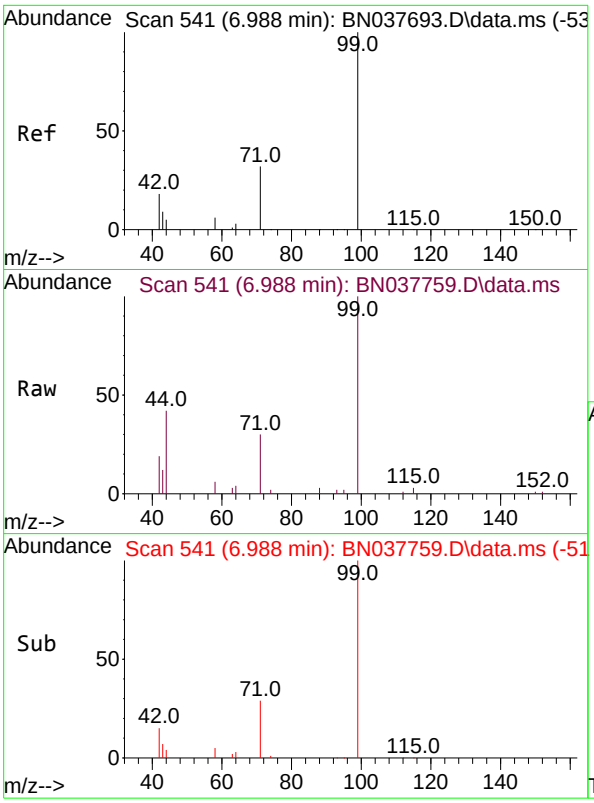


#4
2-Fluorophenol
Concen: 0.409 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:112 Resp: 7521

Ion	Ratio	Lower	Upper
112	100		
64	54.9	44.9	67.3
63	29.9	24.7	37.1



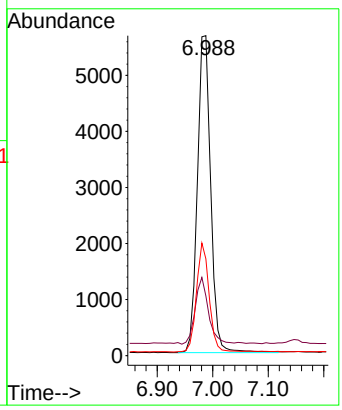


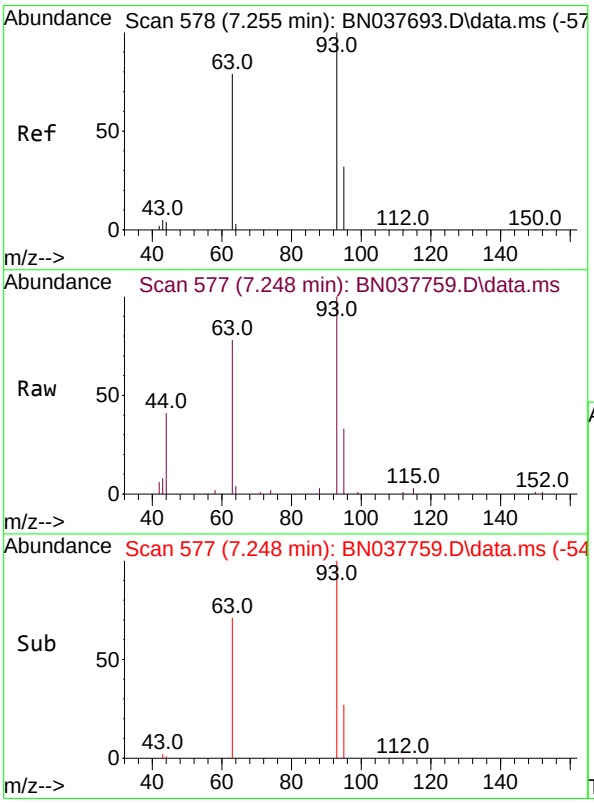
#5
Phenol-d6
Concen: 0.396 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 9450

Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.6	24.8
71	32.7	26.7	40.1

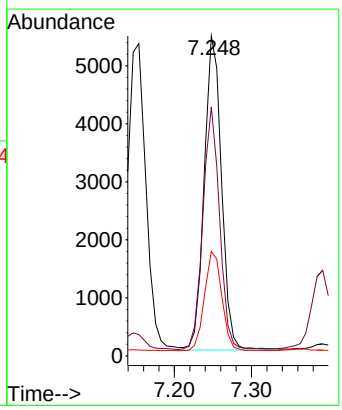


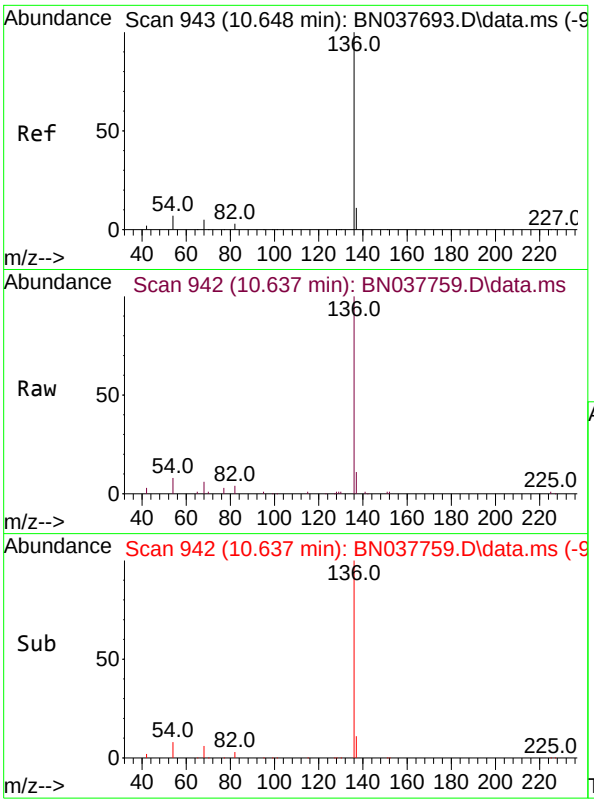


#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion: 93 Resp: 8459

Ion	Ratio	Lower	Upper
93	100		
63	74.5	60.6	90.8
95	31.6	26.0	39.0



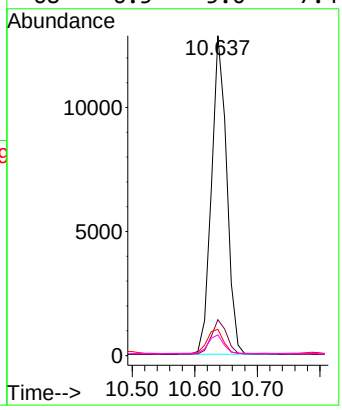


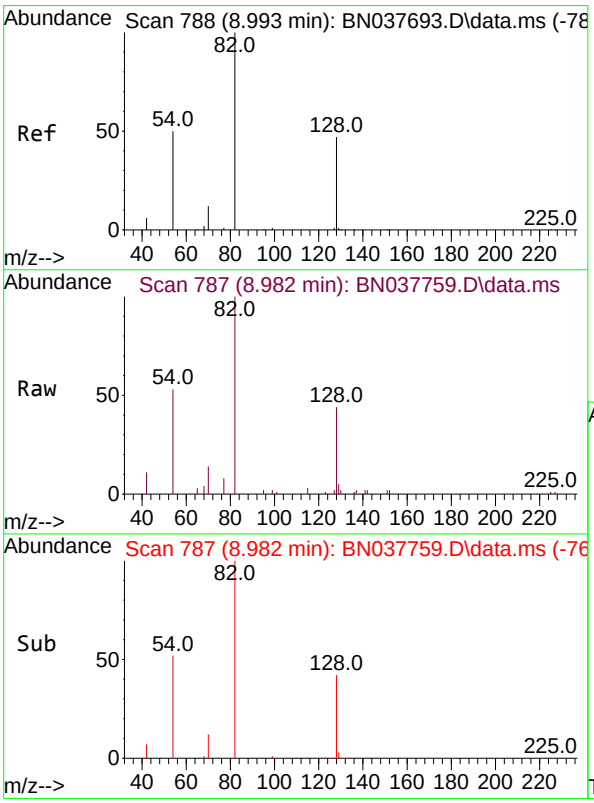
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 21664

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	8.2	6.3	9.5
68	6.5	5.0	7.4

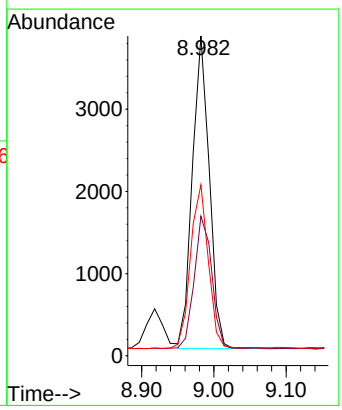


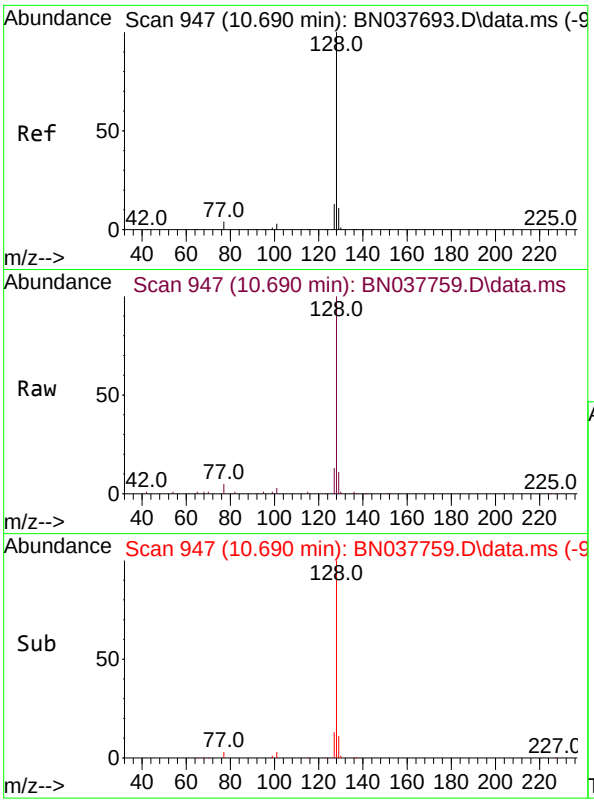


#8
Nitrobenzene-d5
Concen: 0.391 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion: 82 Resp: 6195

Ion	Ratio	Lower	Upper
82	100		
128	43.6	38.3	57.5
54	53.5	41.4	62.2



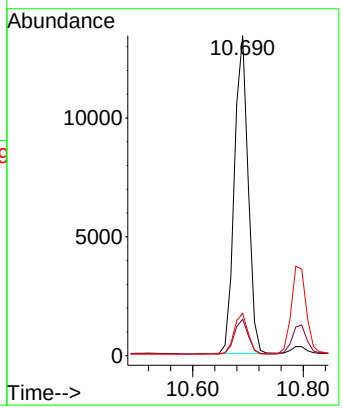


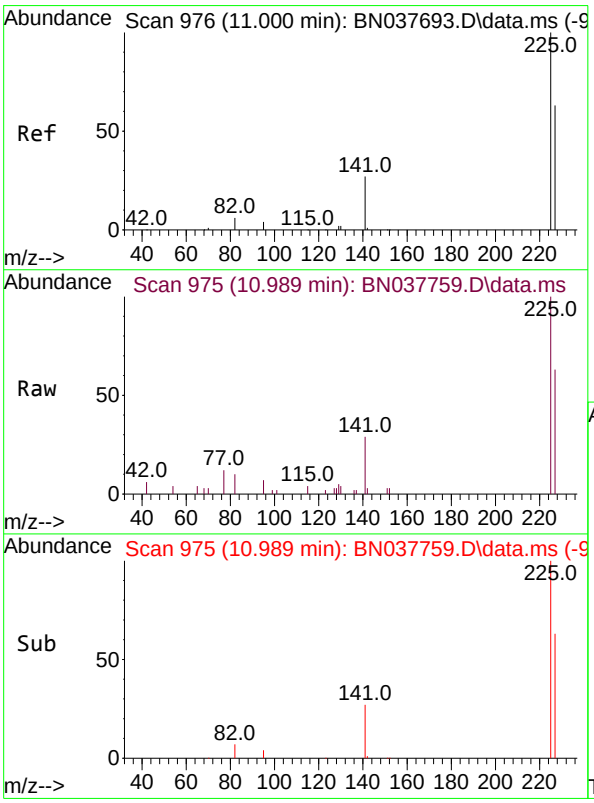
#9
Naphthalene
Concen: 0.389 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 23012

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.2	10.9	16.3

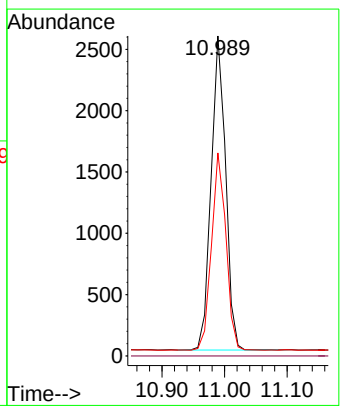


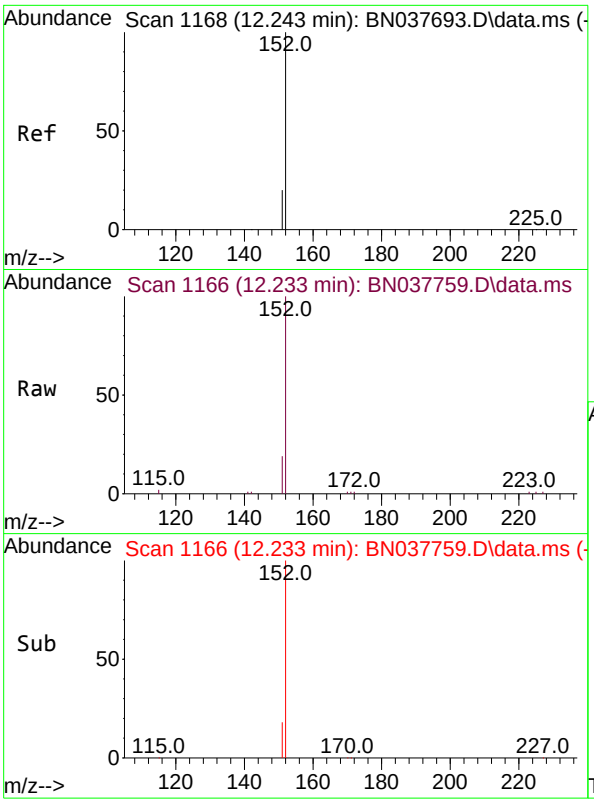


#10
Hexachlorobutadiene
Concen: 0.385 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:225 Resp: 4127

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.6	50.9	76.3



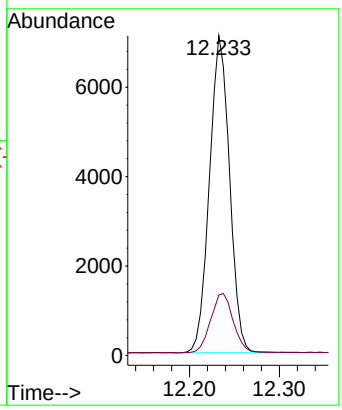


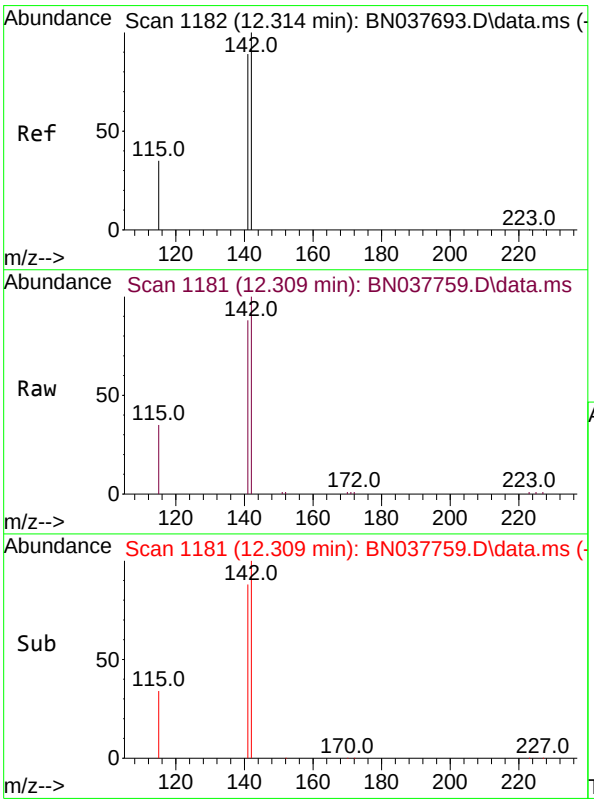
#11
2-Methylnaphthalene-d10
Concen: 0.386 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 11065

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.0	25.6

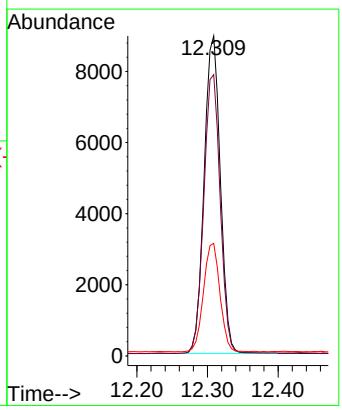


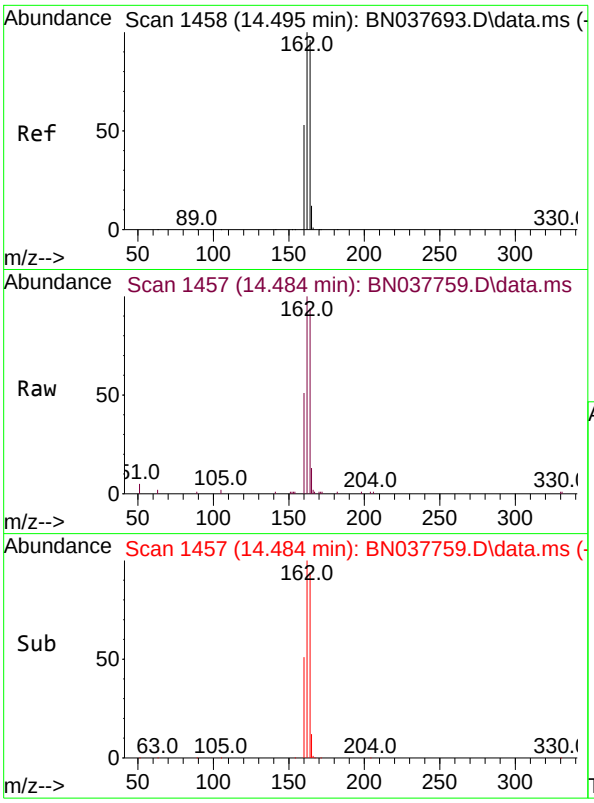


#12
2-Methylnaphthalene
Concen: 0.389 ng
RT: 12.309 min Scan# 1181
Delta R.T. -0.005 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:142 Resp: 14242

Ion	Ratio	Lower	Upper
142	100		
141	87.9	71.6	107.4
115	35.2	28.6	43.0



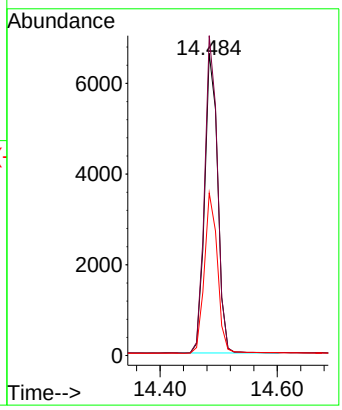


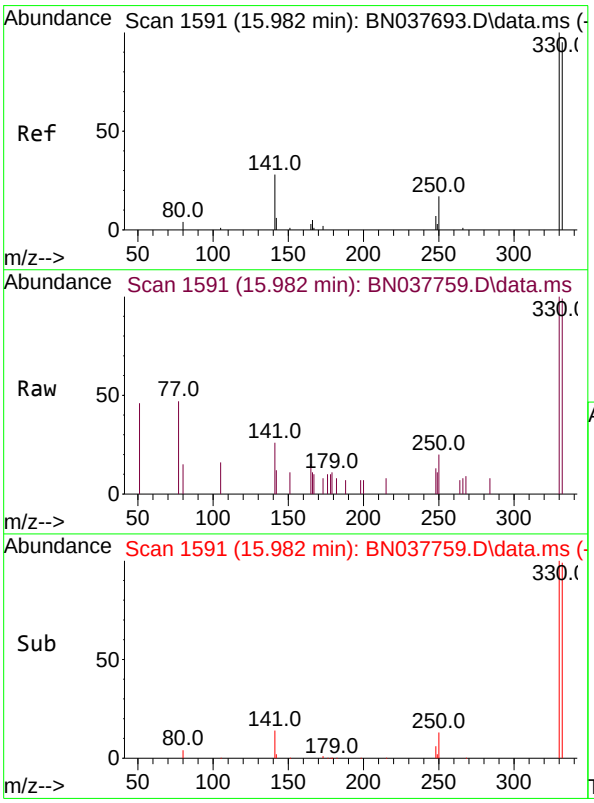
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 10192

Ion	Ratio	Lower	Upper
164	100		
162	105.9	83.1	124.7
160	53.8	44.3	66.5

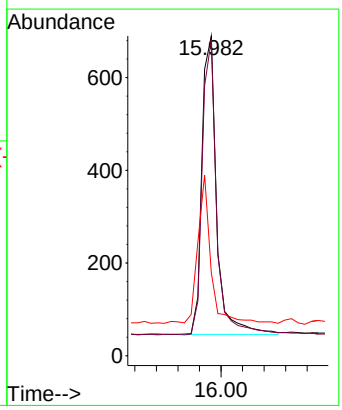


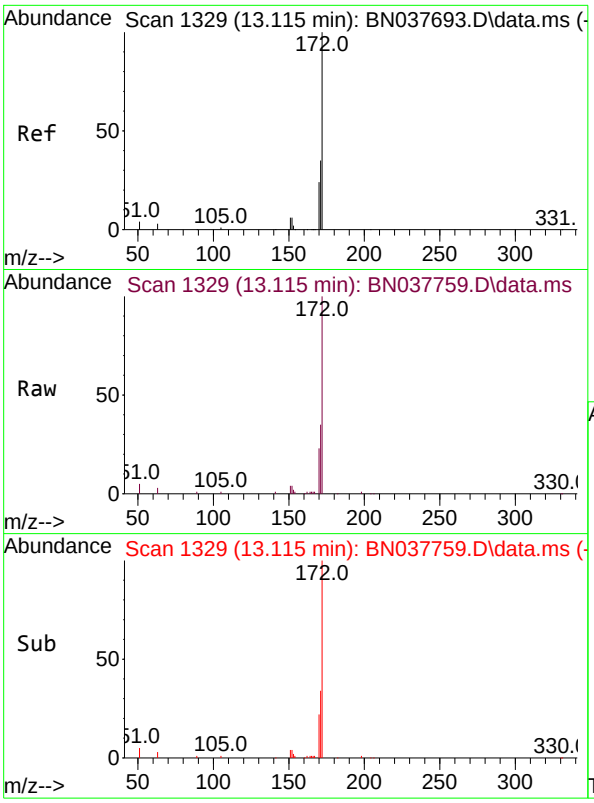


#14
2,4,6-Tribromophenol
Concen: 0.460 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:330 Resp: 1222

Ion	Ratio	Lower	Upper
330	100		
332	96.4	75.3	112.9
141	43.6	35.0	52.4



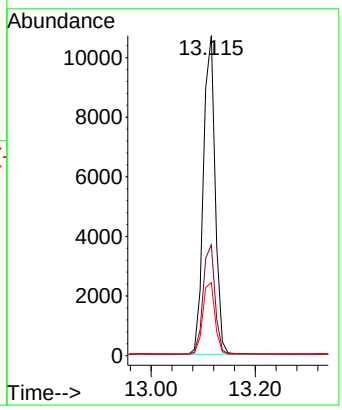


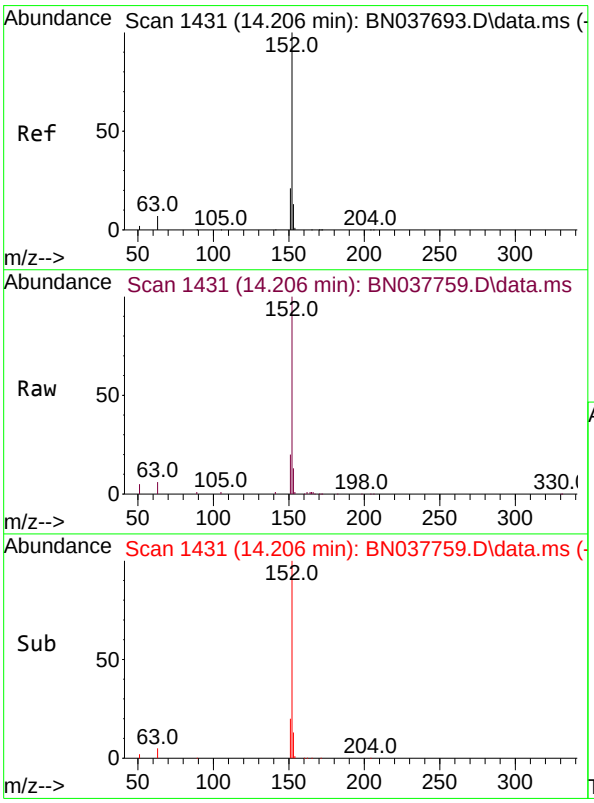
#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 16772

Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.6	43.0
170	22.8	19.8	29.8

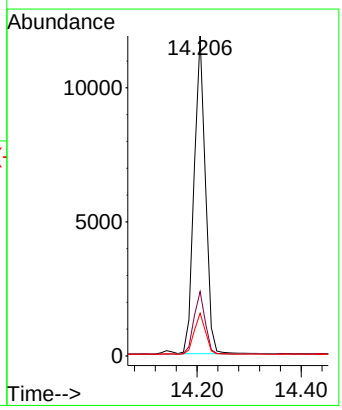


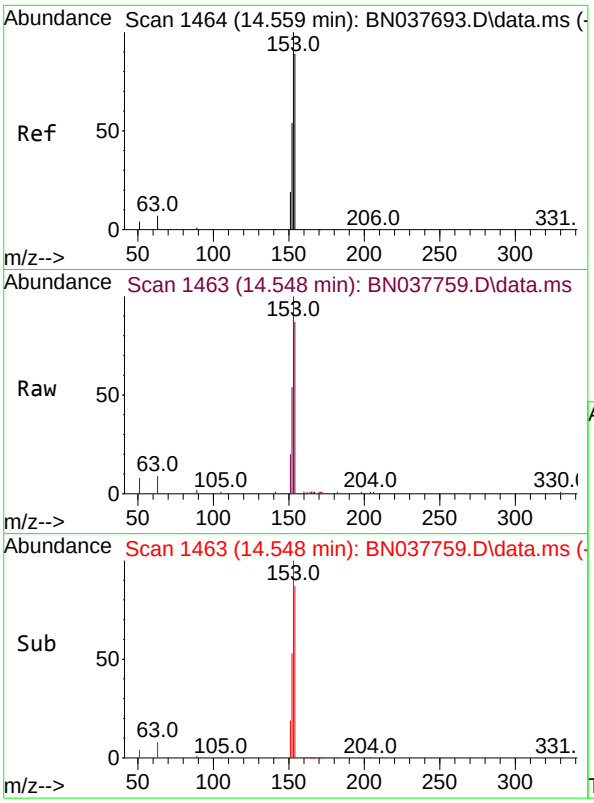


#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:152 Resp: 17762

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	12.9	10.4	15.6



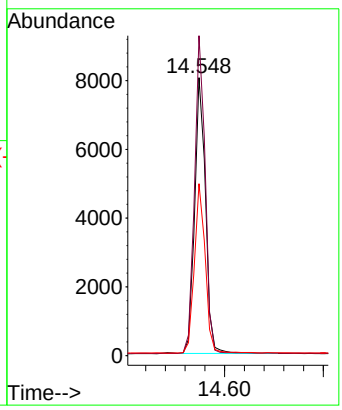


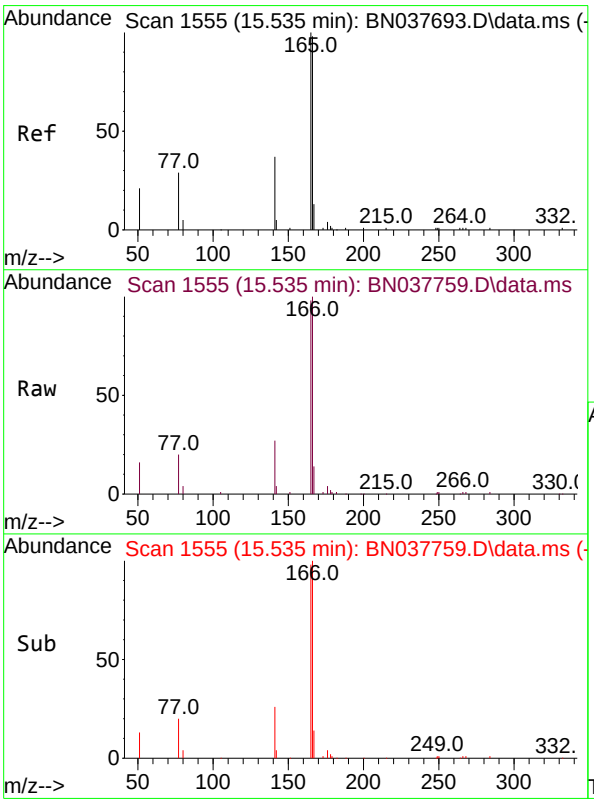
#17
Acenaphthene
Concen: 0.388 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 12273

Ion	Ratio	Lower	Upper
154	100		
153	112.9	89.8	134.8
152	61.6	50.2	75.2

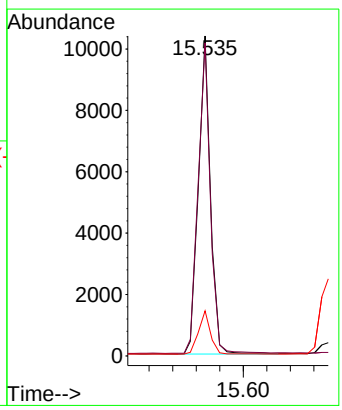


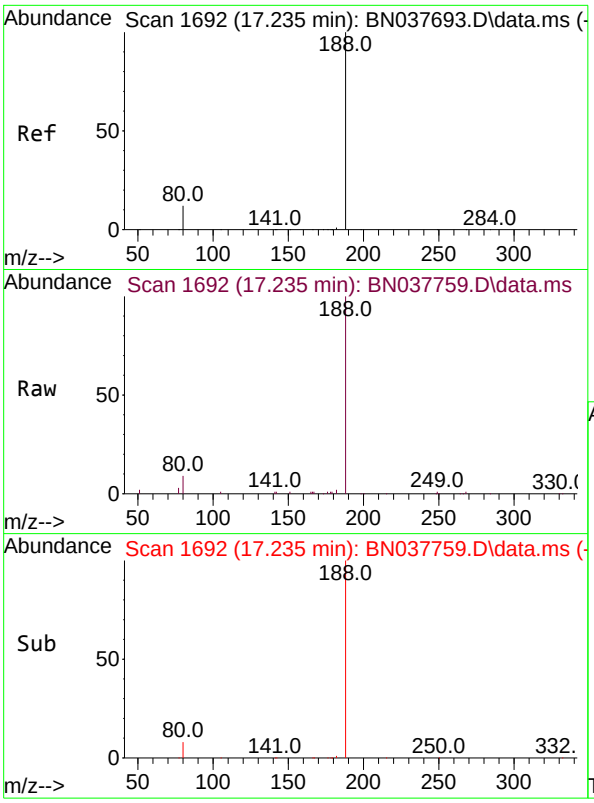


#18
Fluorene
Concen: 0.378 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:166 Resp: 14482

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.6	119.4
167	13.5	10.6	16.0



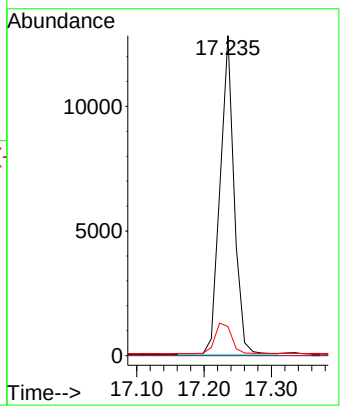


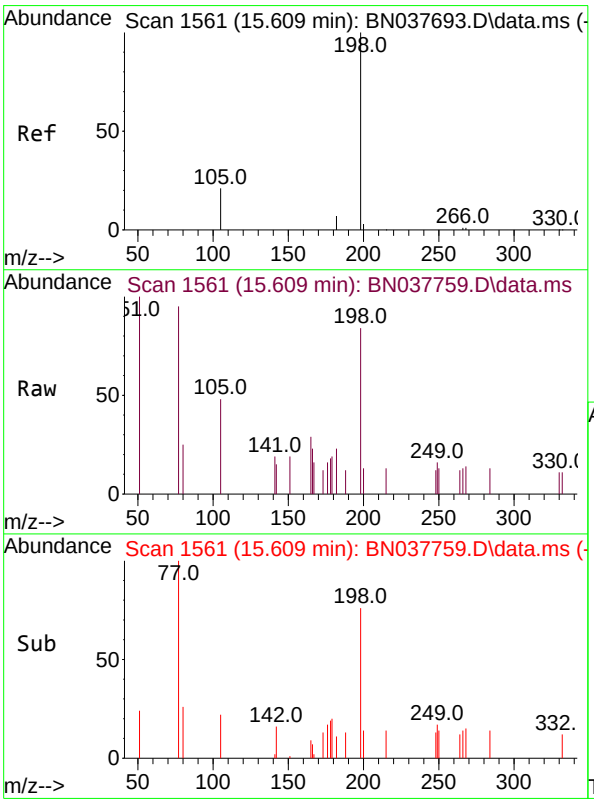
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 18613

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.1	10.6	15.8#

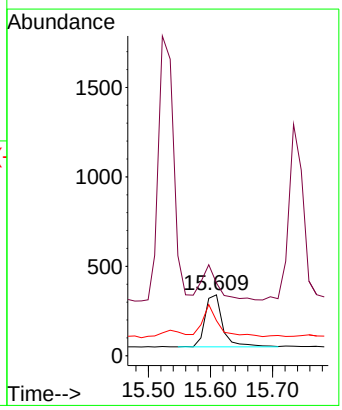


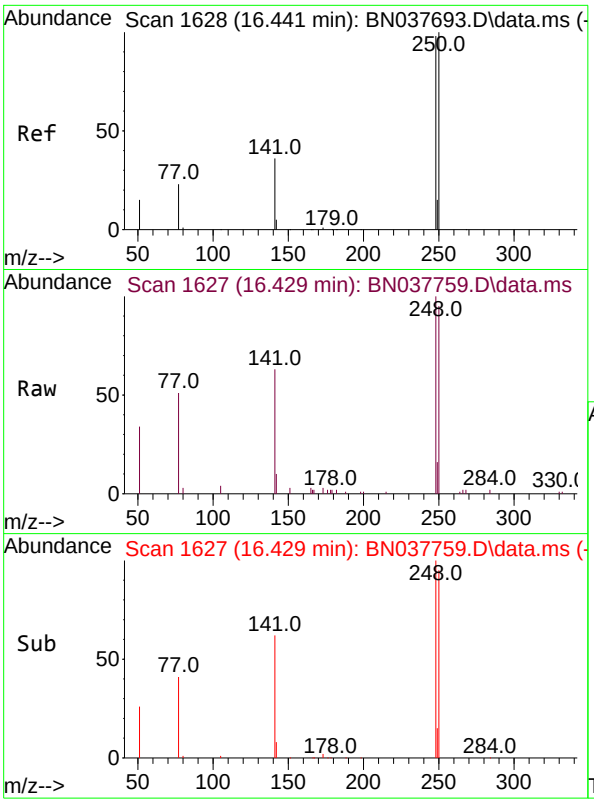


#20
4,6-Dinitro-2-methylphenol
Concen: 0.334 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:198 Resp: 576

Ion	Ratio	Lower	Upper
198	100		
51	119.4	95.1	142.7
105	57.8	53.8	80.6



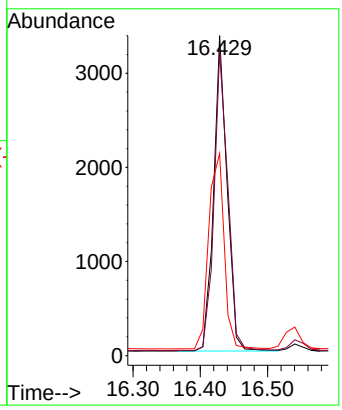


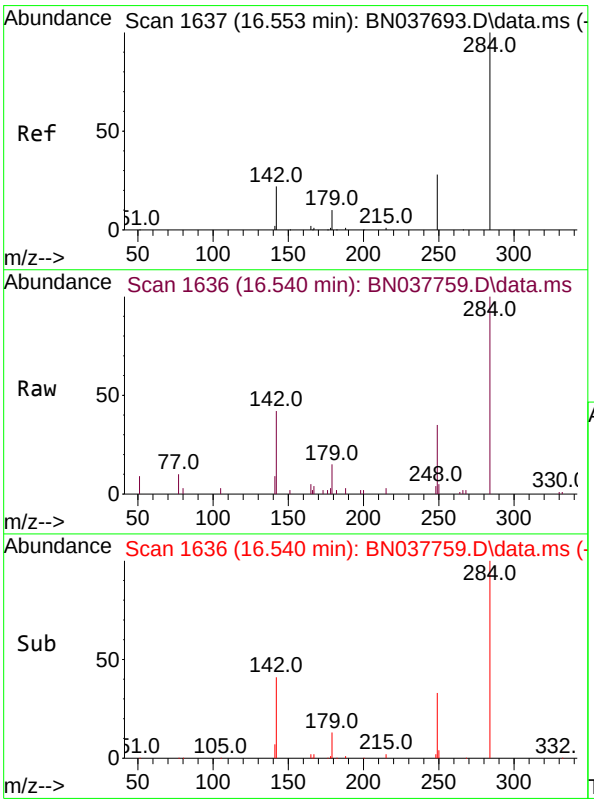
#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 4671

Ion	Ratio	Lower	Upper
248	100		
250	95.1	81.5	122.3
141	63.2	30.8	46.2#

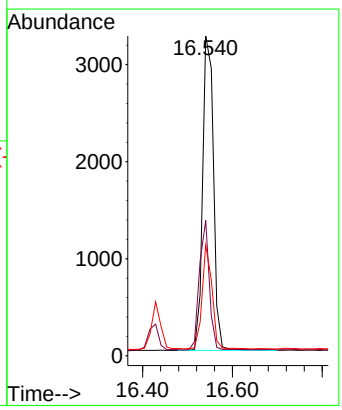


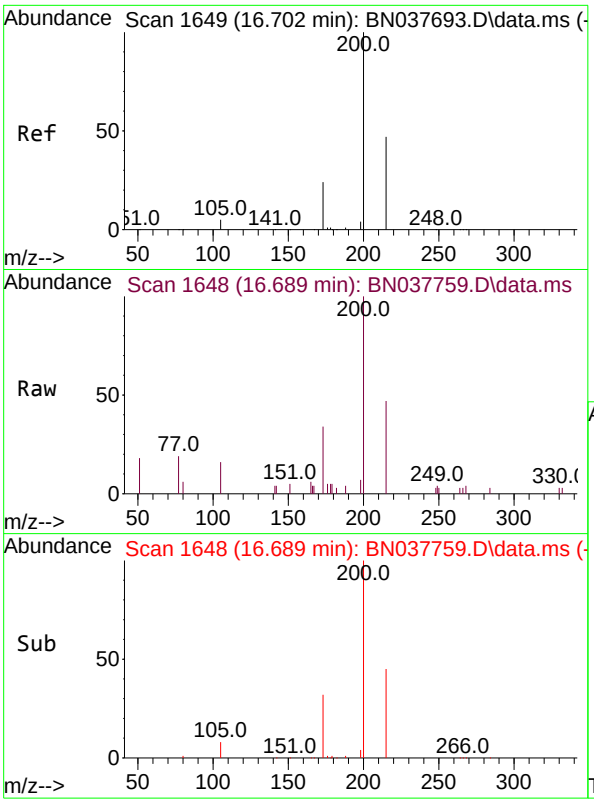


#22
Hexachlorobenzene
Concen: 0.389 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:284 Resp: 5435

Ion	Ratio	Lower	Upper
284	100		
142	37.7	30.9	46.3
249	30.2	24.8	37.2



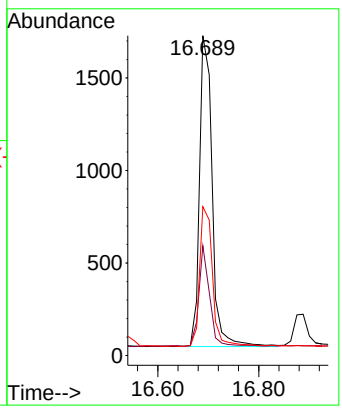


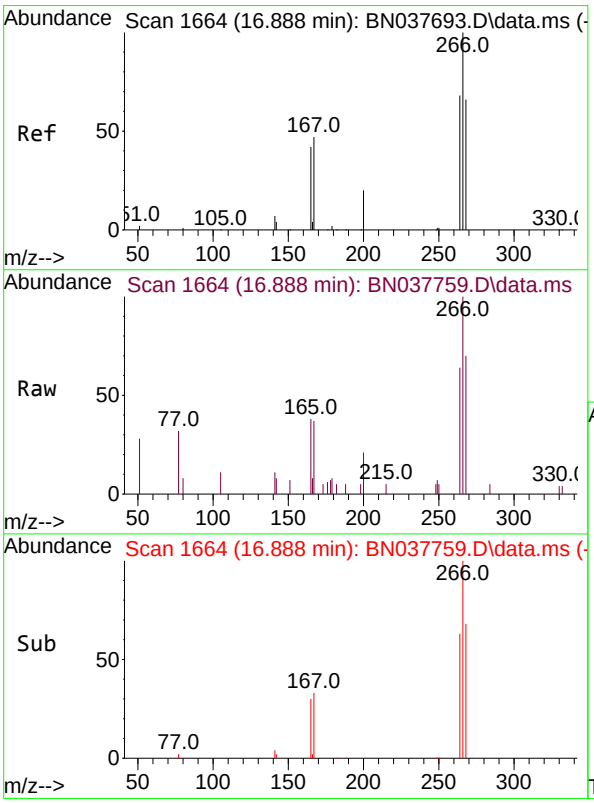
#23
Atrazine
Concen: 0.375 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 2899

Ion	Ratio	Lower	Upper
200	100		
173	34.3	21.4	32.2#
215	46.5	39.2	58.8

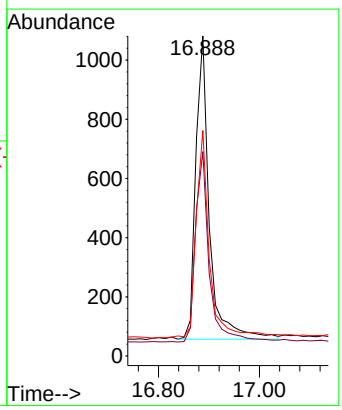


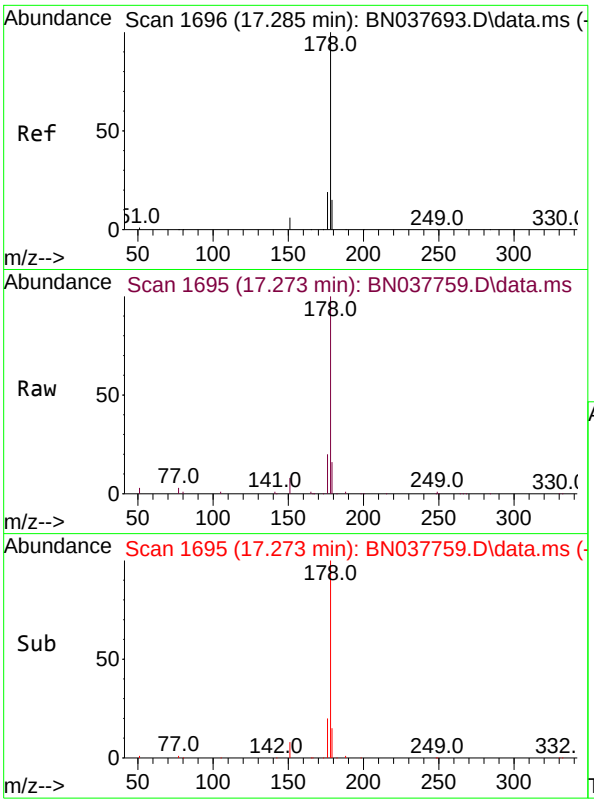


#24
Pentachlorophenol
Concen: 0.471 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:266 Resp: 1908

Ion	Ratio	Lower	Upper
266	100		
264	63.5	51.6	77.4
268	68.8	53.2	79.8



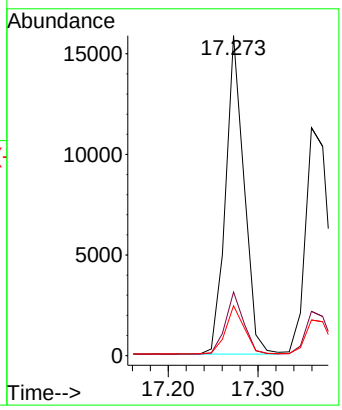


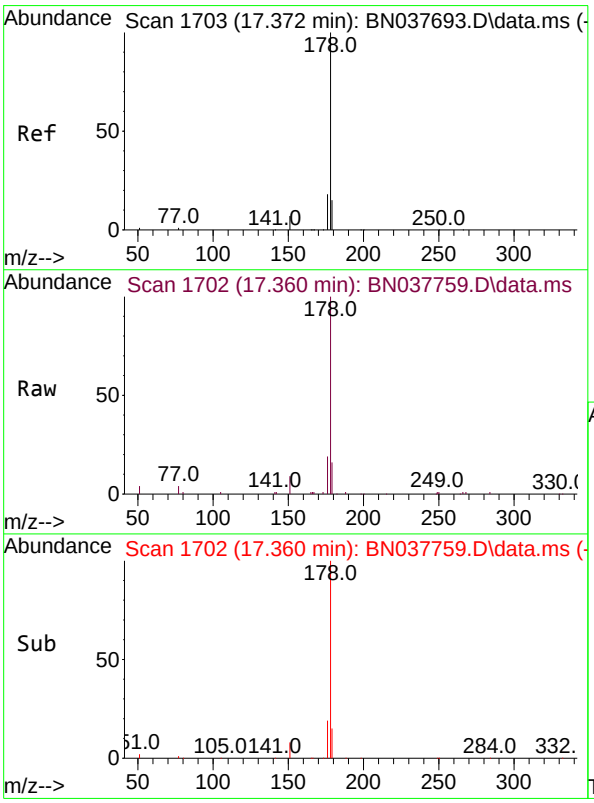
#25
Phenanthrene
Concen: 0.387 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 22675

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.5	12.2	18.2

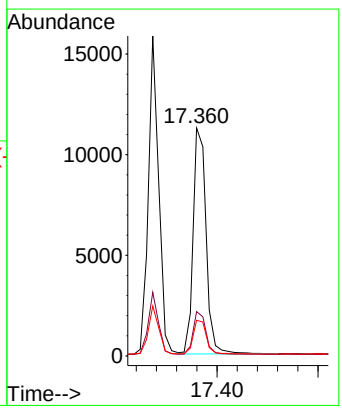


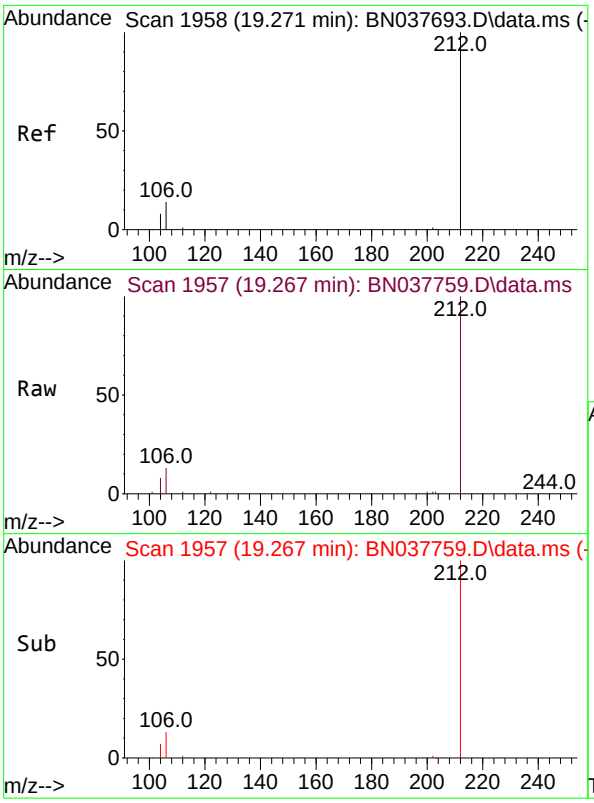


#26
Anthracene
Concen: 0.385 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:178 Resp: 19975

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.5	12.2	18.4



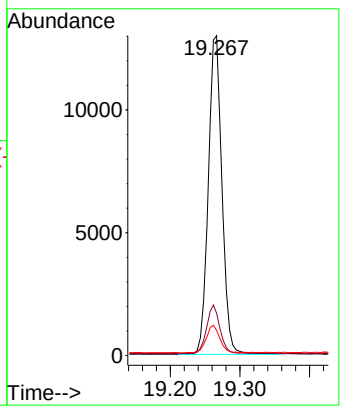


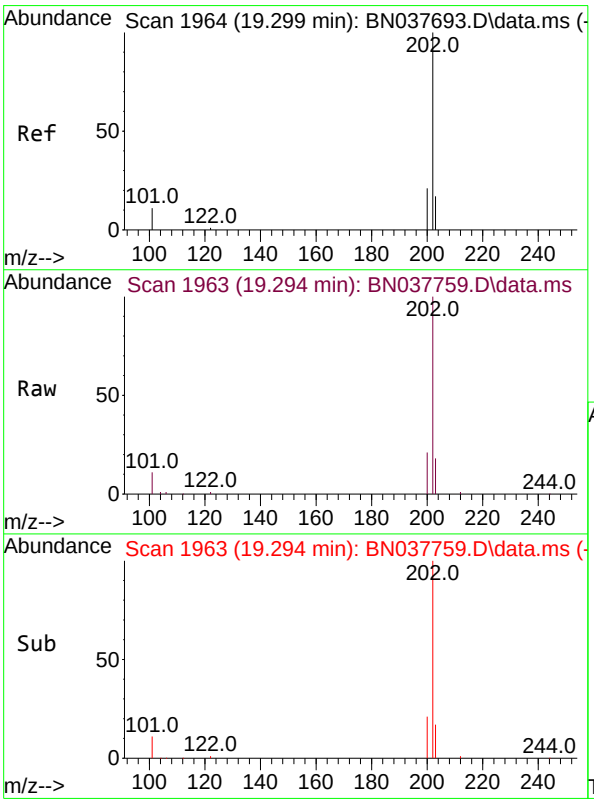
#27
Fluoranthene-d10
Concen: 0.378 ng
RT: 19.267 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 17669

Ion	Ratio	Lower	Upper
212	100		
106	14.8	12.2	18.2
104	8.6	6.9	10.3

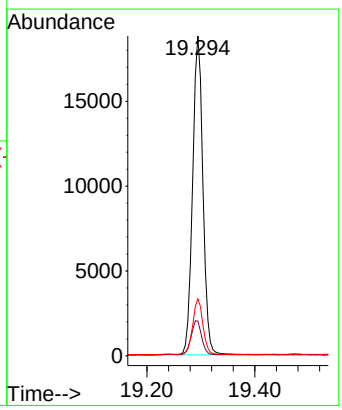


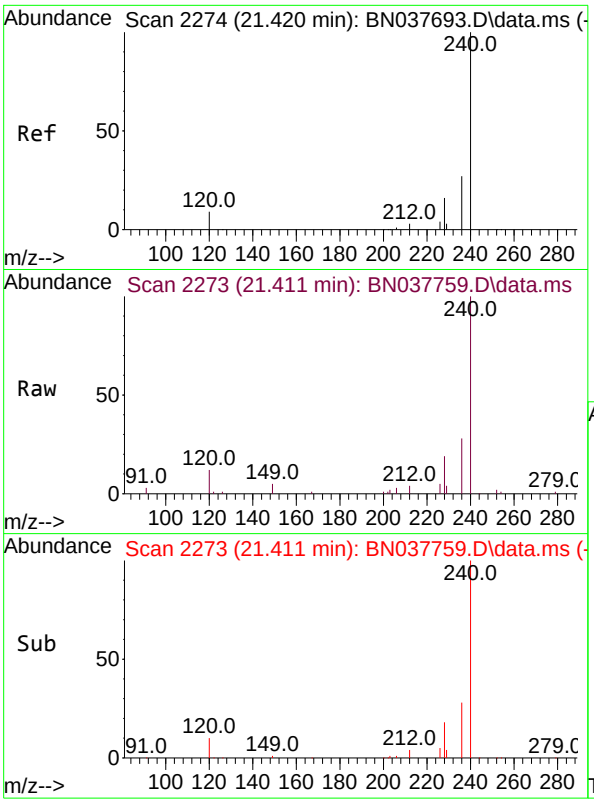


#28
Fluoranthene
Concen: 0.387 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:202 Resp: 24904

Ion	Ratio	Lower	Upper
202	100		
101	11.1	9.3	13.9
203	17.2	13.7	20.5



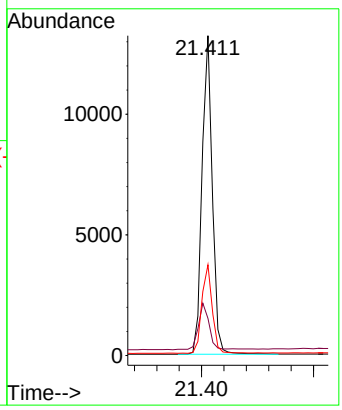


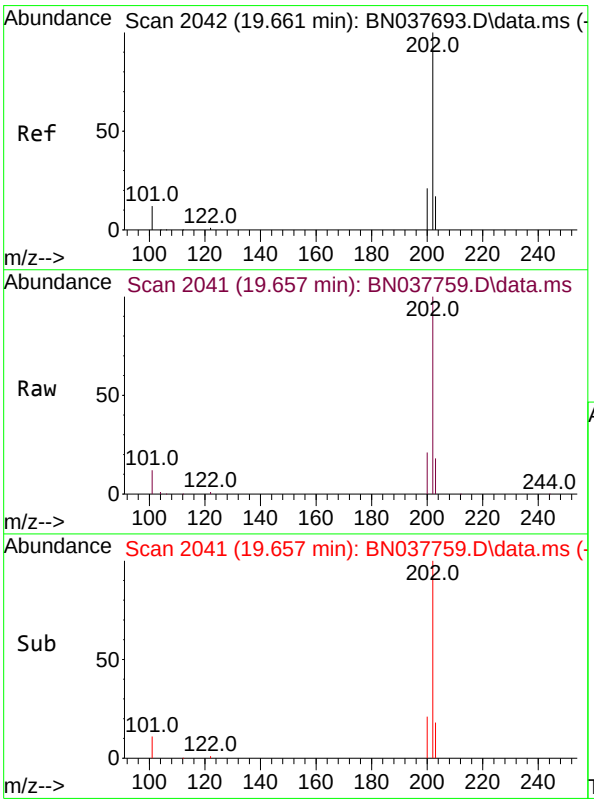
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 16797

Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.2	13.8
236	28.4	22.6	33.8

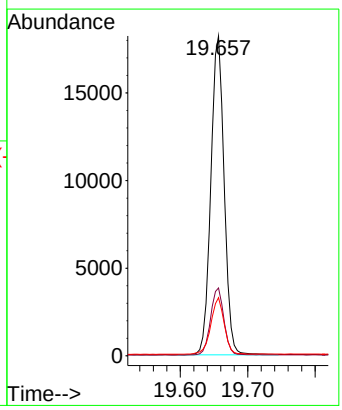


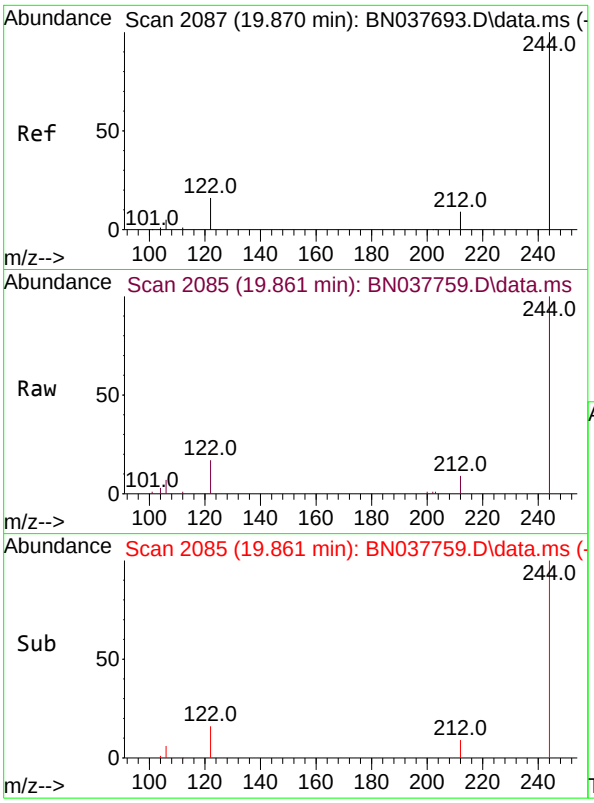


#30
Pyrene
Concen: 0.380 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:202 Resp: 24982

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.8	14.3	21.5



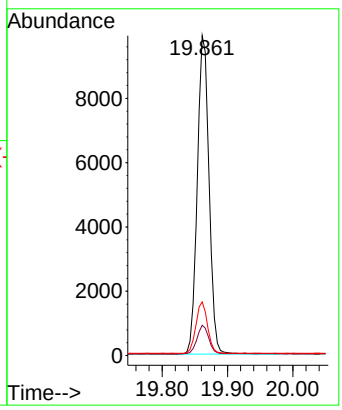


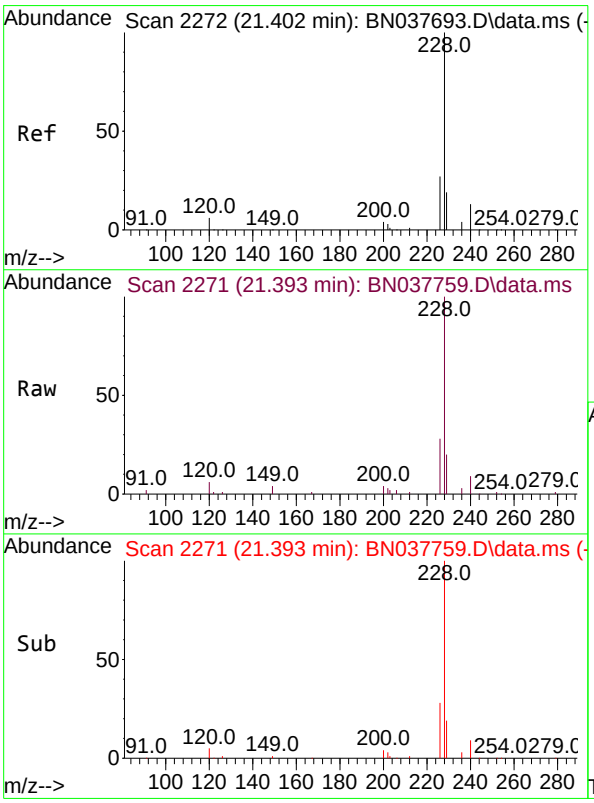
#31
Terphenyl-d14
Concen: 0.362 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 12341

Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.5	11.3
122	16.8	13.2	19.8

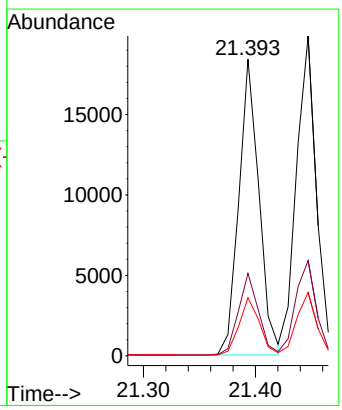


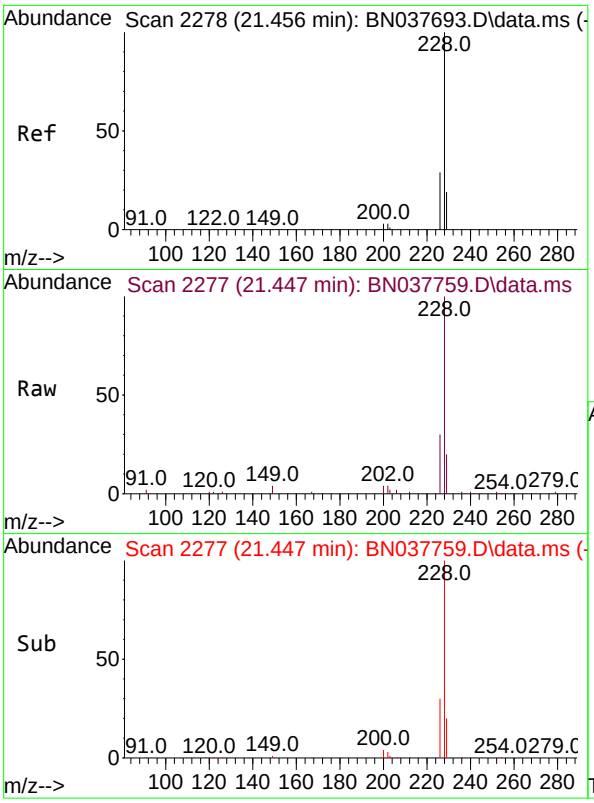


#32
Benzo(a)anthracene
Concen: 0.392 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:228 Resp: 22983

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.2	33.2
229	19.6	15.8	23.6



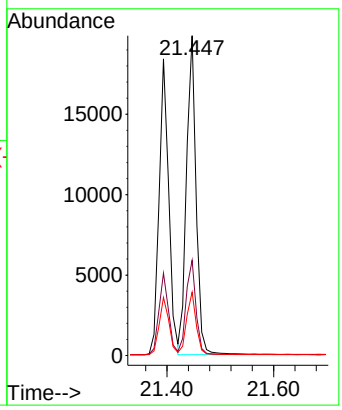


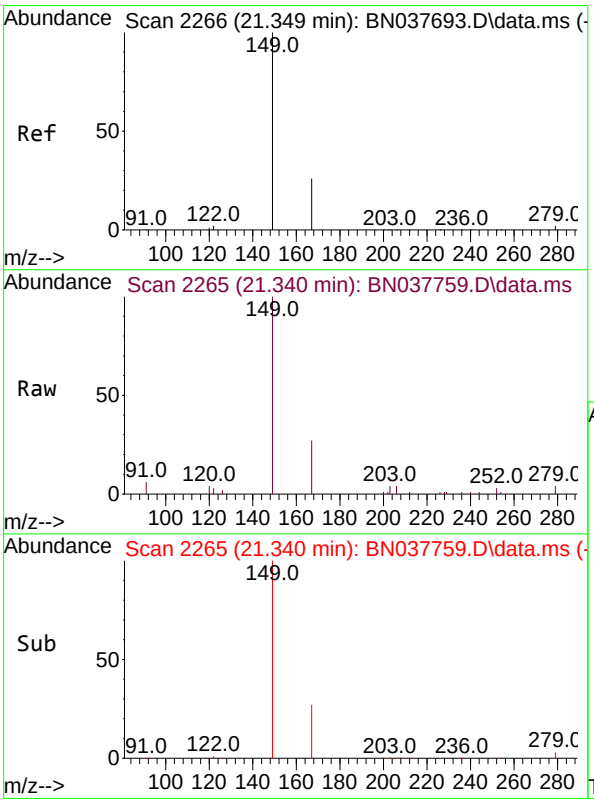
#33
Chrysene
Concen: 0.397 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 24936

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.5	35.3
229	19.8	15.9	23.9

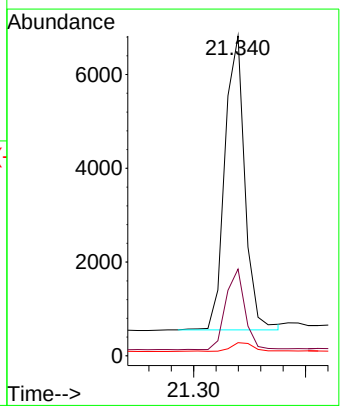


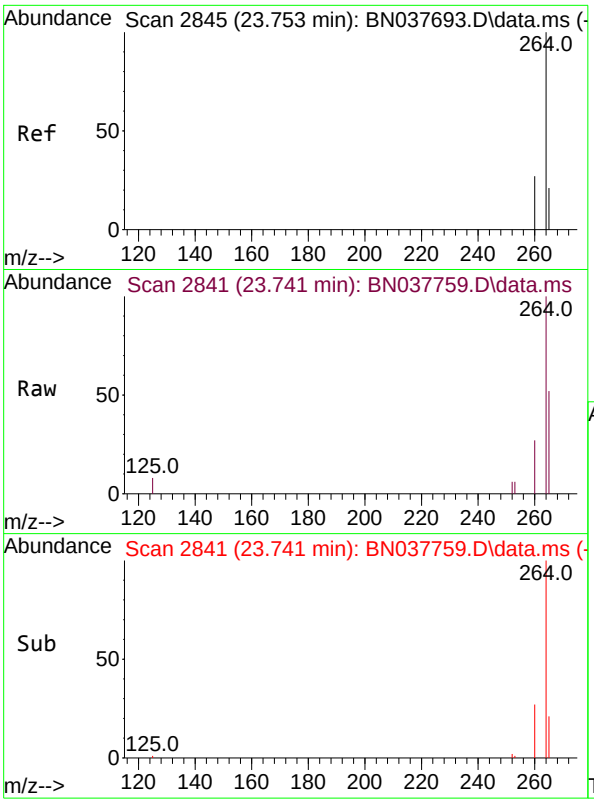


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.446 ng
RT: 21.340 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:149 Resp: 7755

Ion	Ratio	Lower	Upper
149	100		
167	26.5	20.8	31.2
279	3.3	3.3	4.9



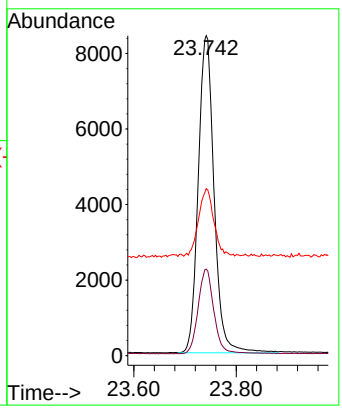


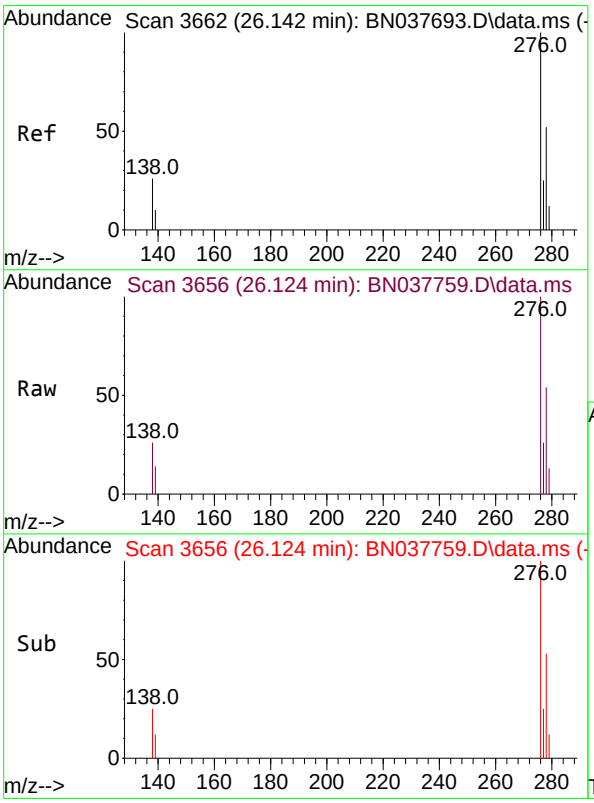
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 18043

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.8	32.8
265	52.2	39.4	59.2

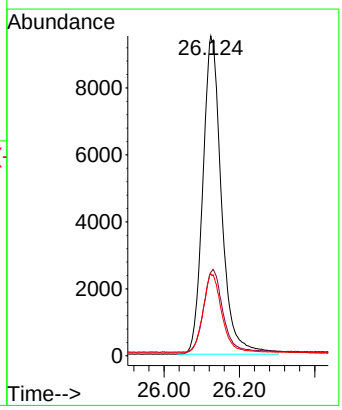


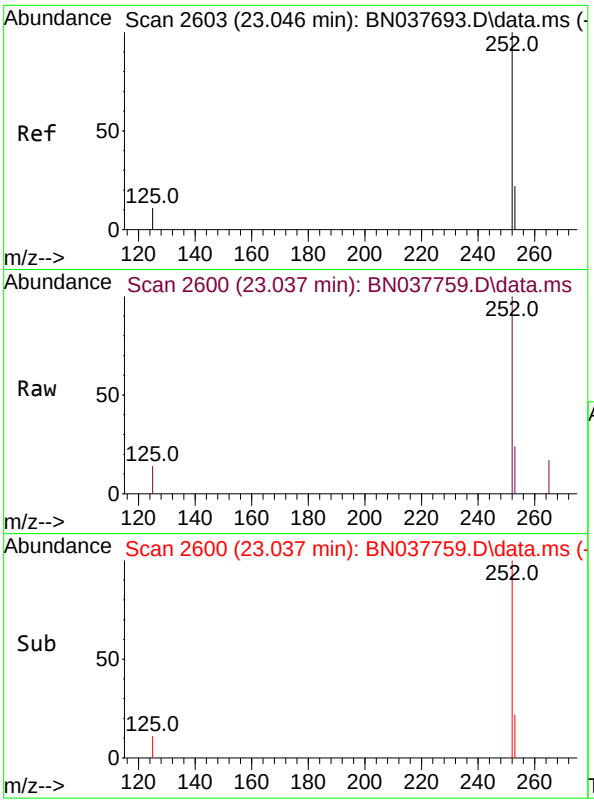


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.431 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:276 Resp: 32683

Ion	Ratio	Lower	Upper
276	100		
138	26.2	21.9	32.9
277	25.0	20.1	30.1



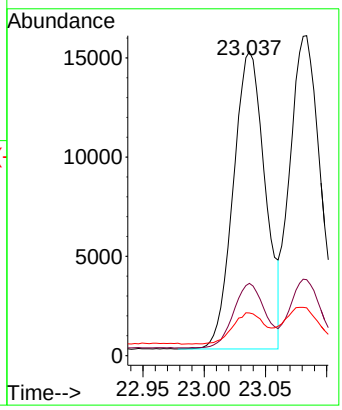


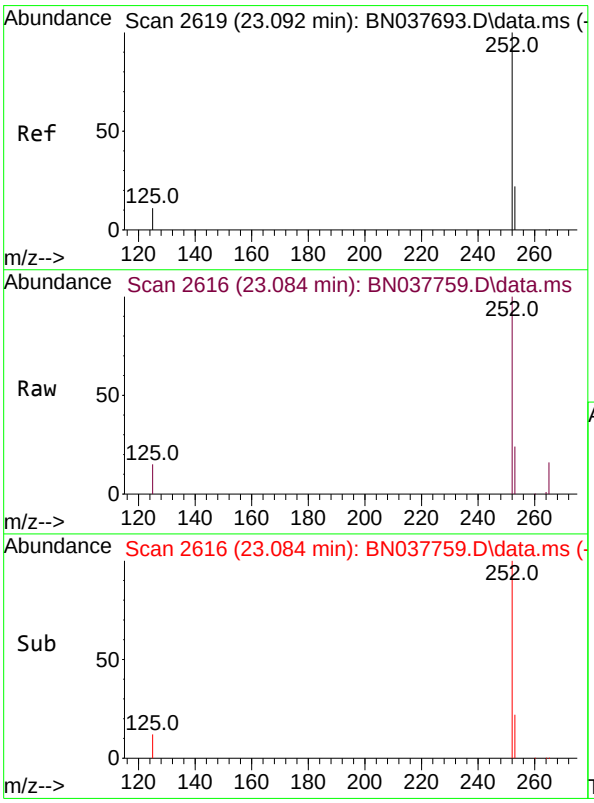
#37
Benzo(b)fluoranthene
Concen: 0.381 ng
RT: 23.037 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 27058

Ion	Ratio	Lower	Upper
252	100		
253	23.8	19.4	29.2
125	14.0	11.2	16.8

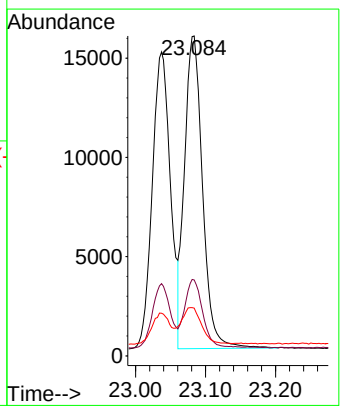


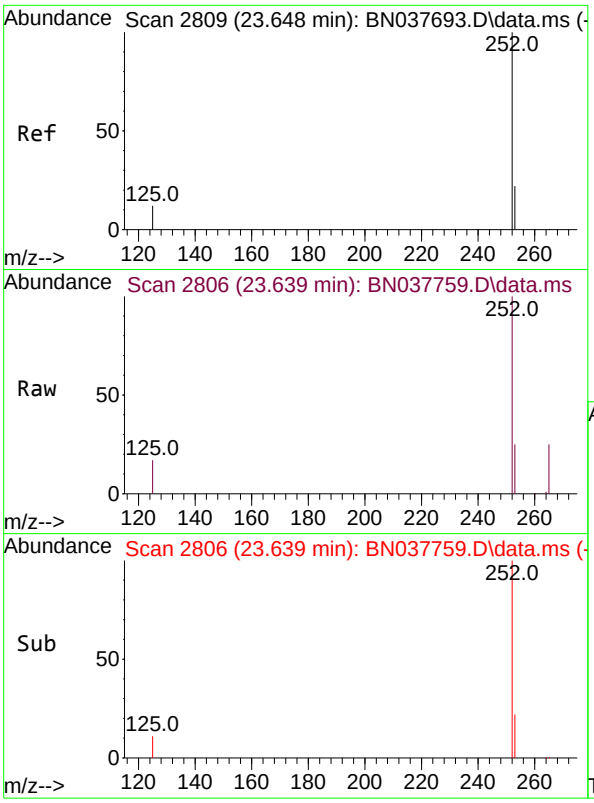


#38
Benzo(k)fluoranthene
Concen: 0.390 ng
RT: 23.084 min Scan# 2616
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:252 Resp: 28281

Ion	Ratio	Lower	Upper
252	100		
253	23.7	19.4	29.0
125	14.9	11.6	17.4



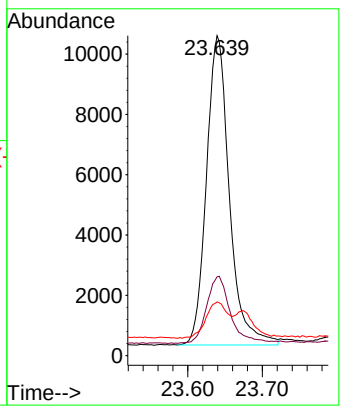


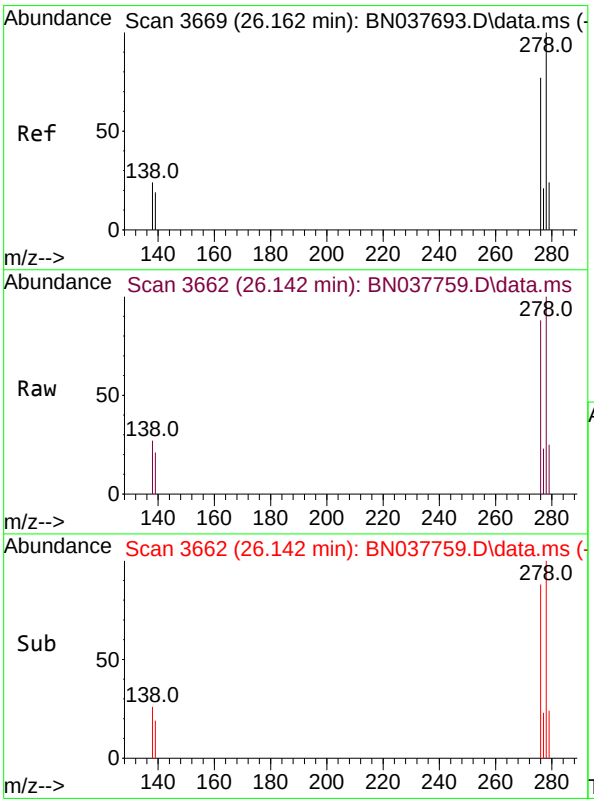
#39
Benzo(a)pyrene
Concen: 0.386 ng
RT: 23.639 min Scan# 28
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 21959

Ion	Ratio	Lower	Upper
252	100		
253	24.6	20.8	31.2
125	16.8	13.9	20.9

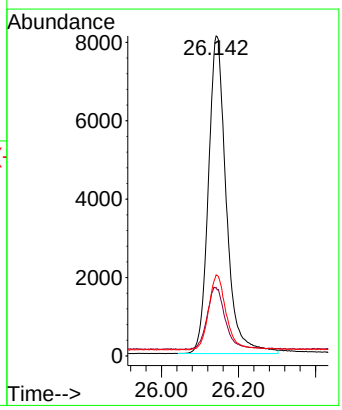


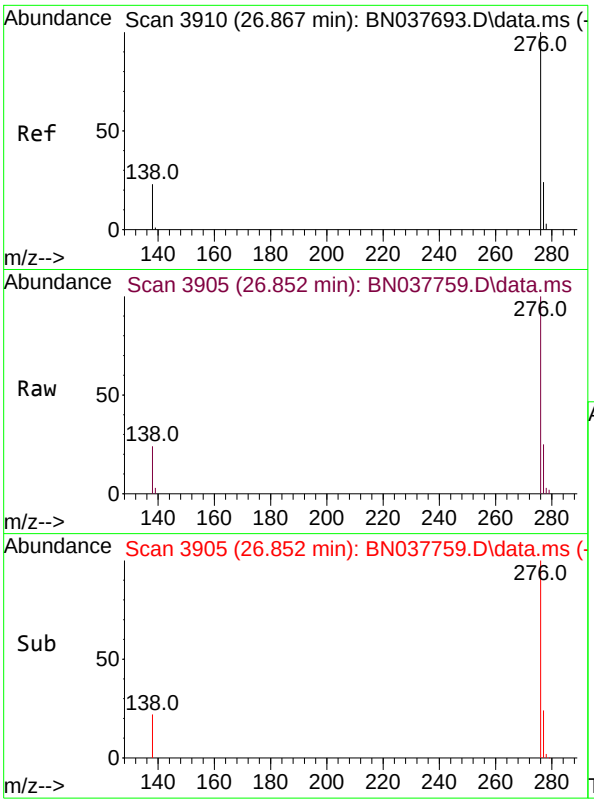


#40
Dibenzo(a,h)anthracene
Concen: 0.432 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.020 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:278 Resp: 26135

Ion	Ratio	Lower	Upper
278	100		
139	21.4	17.8	26.6
279	25.3	22.0	33.0



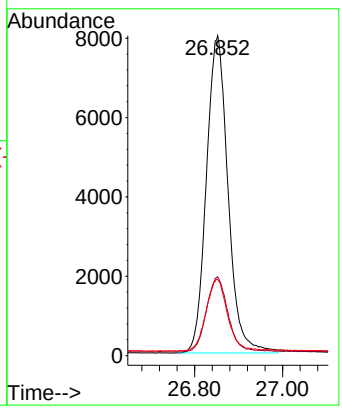


#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 26.852 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 27338

Ion	Ratio	Lower	Upper
276	100		
277	24.6	20.6	31.0
138	23.8	20.2	30.2



Sample Results: **BN037759.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037759.D
Acq On : 18 Sep 2025 02:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 18 05:02:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	160#	0.00
2		1,4-Dioxane	0.417	0.432	-3.6	164#	0.00
3		n-Nitrosodimethylamine	0.544	0.512	5.9	146	0.00
4	S	2-Fluorophenol	0.918	0.939	-2.3	169#	0.00
5	S	Phenol-d6	1.191	1.179	1.0	164#	0.00
6		bis(2-Chloroethyl)ether	1.064	1.056	0.8	158#	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	164#	-0.01
8	S	Nitrobenzene-d5	0.293	0.286	2.4	164#	-0.01
9		Naphthalene	1.093	1.062	2.8	162#	0.00
10		Hexachlorobutadiene	0.198	0.191	3.5	158#	-0.01
11	SURR	2-Methylnaphthalene-d10	0.530	0.511	3.6	168#	-0.01
12		2-Methylnaphthalene	0.676	0.657	2.8	163#	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	164#	-0.01
14	S	2,4,6-Tribromophenol	0.104	0.120	-15.4	196#	0.00
15	S	2-Fluorobiphenyl	1.673	1.646	1.6	164#	0.00
16		Acenaphthylene	1.834	1.743	5.0	161#	0.00
17		Acenaphthene	1.240	1.204	2.9	163#	-0.01
18		Fluorene	1.502	1.421	5.4	162#	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	165#	0.00
20		4,6-Dinitro-2-methylphenol	0.037	0.031	16.2	155#	0.00
21		4-Bromophenyl-phenylether	0.261	0.251	3.8	165#	-0.01
22		Hexachlorobenzene	0.300	0.292	2.7	164#	-0.01
23		Atrazine	0.166	0.156	6.0	170#	-0.01
24		Pentachlorophenol	0.087	0.103	-18.4	227#	0.00
25		Phenanthrene	1.259	1.218	3.3	165#	-0.01
26		Anthracene	1.116	1.073	3.9	166#	-0.01
27	SURR	Fluoranthene-d10	1.004	0.949	5.5	168#	0.00
28		Fluoranthene	1.381	1.338	3.1	169#	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	179#	0.00
30		Pyrene	1.566	1.487	5.0	171#	0.00
31	S	Terphenyl-d14	0.812	0.735	9.5	164#	0.00
32		Benzo(a)anthracene	1.395	1.368	1.9	182#	0.00
33		Chrysene	1.496	1.485	0.7	178#	0.00
34		Bis(2-ethylhexyl)phthalate	0.414	0.462	-11.6	220#	0.00
35	I	Perylene-d12	1.000	1.000	0.0	201#	-0.01
36		Indeno(1,2,3-cd)pyrene	1.681	1.811	-7.7	236#	-0.02
37		Benzo(b)fluoranthene	1.575	1.500	4.8	194#	0.00
38		Benzo(k)fluoranthene	1.606	1.567	2.4	207#	0.00
39	C	Benzo(a)pyrene	1.261	1.217	3.5	204#	0.00
40		Dibenzo(a,h)anthracene	1.342	1.448	-7.9	241#	-0.02
41		Benzo(g,h,i)perylene	1.506	1.515	-0.6	210#	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037759.D
Acq On : 18 Sep 2025 02:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 18 05:02:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	160	0.00
2		1,4-Dioxane	0.400	0.415	-3.7	164	0.00
3		n-Nitrosodimethylamine	0.400	0.376	6.0	146	0.00
4	S	2-Fluorophenol	0.400	0.409	-2.2	169	0.00
5	S	Phenol-d6	0.400	0.396	1.0	164	0.00
6		bis(2-Chloroethyl)ether	0.400	0.397	0.8	158	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	164	-0.01
8	S	Nitrobenzene-d5	0.400	0.391	2.3	164	-0.01
9		Naphthalene	0.400	0.389	2.8	162	0.00
10		Hexachlorobutadiene	0.400	0.385	3.8	158	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.386	3.5	168	-0.01
12		2-Methylnaphthalene	0.400	0.389	2.8	163	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	164	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.460	-15.0	196	0.00
15	S	2-Fluorobiphenyl	0.400	0.393	1.8	164	0.00
16		Acenaphthylene	0.400	0.380	5.0	161	0.00
17		Acenaphthene	0.400	0.388	3.0	163	-0.01
18		Fluorene	0.400	0.378	5.5	162	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	165	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.334	16.5	155	0.00
21		4-Bromophenyl-phenylether	0.400	0.385	3.8	165	-0.01
22		Hexachlorobenzene	0.400	0.389	2.8	164	-0.01
23		Atrazine	0.400	0.375	6.3	170	-0.01
24		Pentachlorophenol	0.400	0.471	-17.7	227	0.00
25		Phenanthrene	0.400	0.387	3.3	165	-0.01
26		Anthracene	0.400	0.385	3.8	166	-0.01
27	SURR	Fluoranthene-d10	0.400	0.378	5.5	168	0.00
28		Fluoranthene	0.400	0.387	3.3	169	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	179	0.00
30		Pyrene	0.400	0.380	5.0	171	0.00
31	S	Terphenyl-d14	0.400	0.362	9.5	164	0.00
32		Benzo(a)anthracene	0.400	0.392	2.0	182	0.00
33		Chrysene	0.400	0.397	0.8	178	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.446	-11.5	220	0.00
35	I	Perylene-d12	0.400	0.400	0.0	201	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.431	-7.7	236	-0.02
37		Benzo(b)fluoranthene	0.400	0.381	4.8	194	0.00
38		Benzo(k)fluoranthene	0.400	0.390	2.5	207	0.00
39	C	Benzo(a)pyrene	0.400	0.386	3.5	204	0.00
40		Dibenzo(a,h)anthracene	0.400	0.432	-8.0	241	-0.02
41		Benzo(g,h,i)perylene	0.400	0.403	-0.8	210	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15		
Lab Code:	ACE	SDG No.:	Q3097		
Instrument ID:	BNA_N	Calibration Date/Time:	09/18/2025	13:16	
Lab File ID:	BN037774.D	Init. Calib. Date(s):	09/11/2025	09/11/2025	
EPA Sample No.:	SSTDCCC0.4EC	Init. Calib. Time(s):	09:56	13:33	

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.506		-4.5	50.0
Fluoranthene-d10	1.004	0.949		-5.5	50.0
2-Fluorophenol	0.918	0.915		-0.3	50.0
Phenol-d6	1.191	1.160		-2.6	50.0
Nitrobenzene-d5	0.293	0.296		1.0	50.0
2-Fluorobiphenyl	1.673	1.646		-1.6	50.0
2,4,6-Tribromophenol	0.104	0.126		21.2	50.0
Terphenyl-d14	0.812	0.758		-6.7	50.0
1,4-Dioxane	0.417	0.425		1.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037774.D
Acq On : 18 Sep 2025 13:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 18 13:43:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

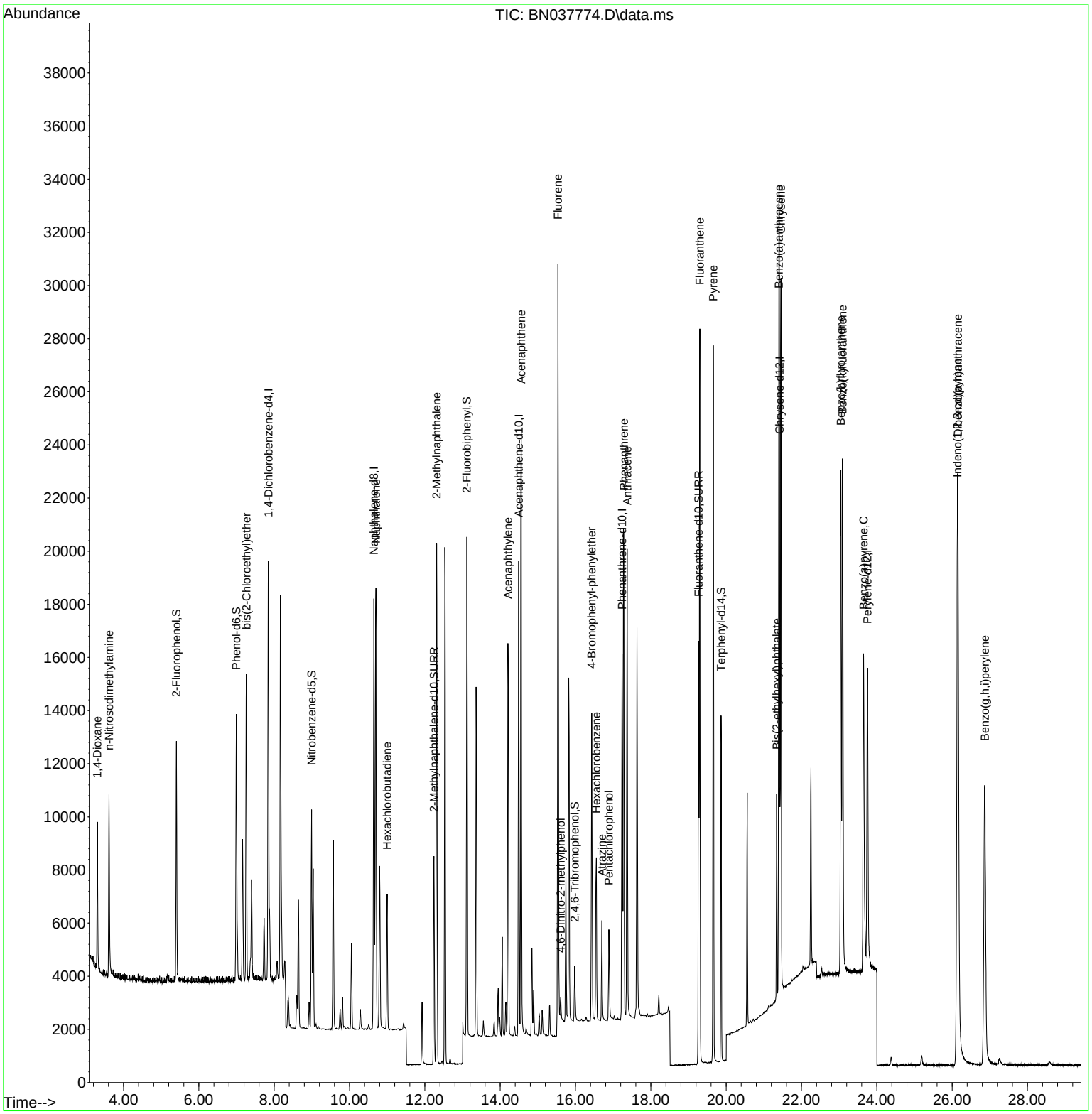
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.847	152	7889	0.400	ng		0.00
7) Naphthalene-d8	10.648	136	20894	0.400	ng		0.00
13) Acenaphthene-d10	14.494	164	9741	0.400	ng		0.00
19) Phenanthrene-d10	17.235	188	18065	0.400	ng		0.00
29) Chrysene-d12	21.420	240	16005	0.400	ng		0.00
35) Perylene-d12	23.753	264	16216	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.406	112	7221	0.399	ng		0.00
5) Phenol-d6	6.995	99	9149	0.390	ng		0.00
8) Nitrobenzene-d5	8.993	82	6183	0.405	ng		0.00
11) 2-Methylnaphthalene-d10	12.243	152	10579	0.382	ng		0.00
14) 2,4,6-Tribromophenol	15.982	330	1232	0.485	ng		0.00
15) 2-Fluorobiphenyl	13.115	172	16033	0.394	ng		0.00
27) Fluoranthene-d10	19.266	212	17138	0.378	ng		0.00
31) Terphenyl-d14	19.866	244	12130	0.373	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.304	88	3351	0.408	ng		96
3) n-Nitrosodimethylamine	3.615	42	4085	0.381	ng		91
6) bis(2-Chloroethyl)ether	7.262	93	8348	0.398	ng		98
9) Naphthalene	10.701	128	22536	0.395	ng		100
10) Hexachlorobutadiene	11.000	225	4013	0.388	ng	#	99
12) 2-Methylnaphthalene	12.314	142	13704	0.388	ng		99
16) Acenaphthylene	14.206	152	16996	0.380	ng		99
17) Acenaphthene	14.559	154	11822	0.391	ng		99
18) Fluorene	15.535	166	14211	0.388	ng		100
20) 4,6-Dinitro-2-methylph...	15.609	198	668	0.399	ng		89
21) 4-Bromophenyl-phenylether	16.429	248	4506	0.383	ng	#	69
22) Hexachlorobenzene	16.553	284	5415	0.400	ng		98
23) Atrazine	16.702	200	2912	0.389	ng		98
24) Pentachlorophenol	16.888	266	1796	0.457	ng		97
25) Phenanthrene	17.285	178	22453	0.395	ng		100
26) Anthracene	17.372	178	19091	0.379	ng		99
28) Fluoranthene	19.299	202	24335	0.390	ng		100
30) Pyrene	19.657	202	24230	0.387	ng		100
32) Benzo(a)anthracene	21.402	228	21339	0.382	ng		99
33) Chrysene	21.456	228	23785	0.397	ng		99
34) Bis(2-ethylhexyl)phtha...	21.339	149	7017	0.424	ng		98
36) Indeno(1,2,3-cd)pyrene	26.139	276	29869	0.438	ng		100
37) Benzo(b)fluoranthene	23.046	252	24782	0.388	ng		98
38) Benzo(k)fluoranthene	23.092	252	26275	0.404	ng		99
39) Benzo(a)pyrene	23.648	252	19411	0.380	ng		98
40) Dibenzo(a,h)anthracene	26.153	278	24050	0.442	ng		97
41) Benzo(g,h,i)perylene	26.867	276	24546	0.402	ng		98

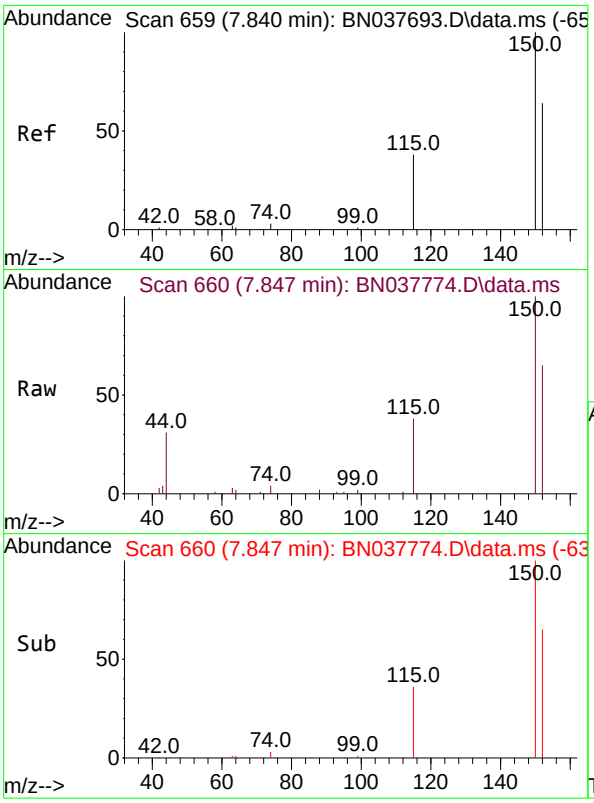
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037774.D
Acq On : 18 Sep 2025 13:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 18 13:43:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



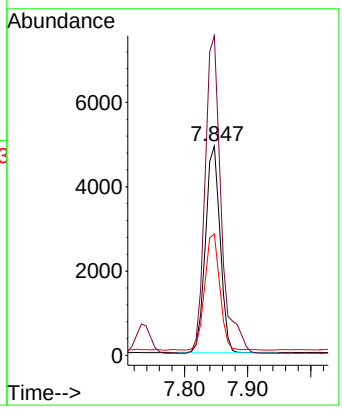


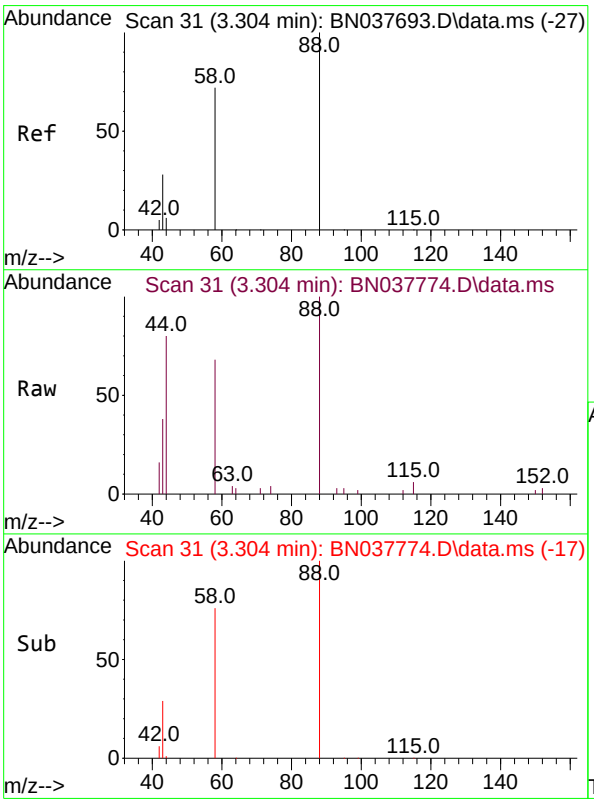
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.847 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 7889

Ion	Ratio	Lower	Upper
152	100		
150	152.7	124.5	186.7
115	58.1	49.2	73.8

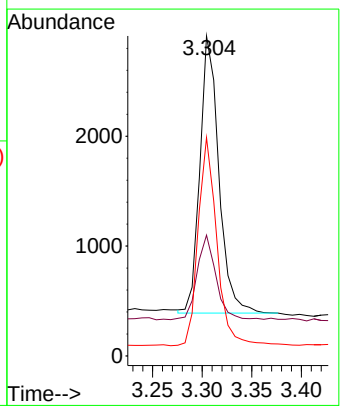


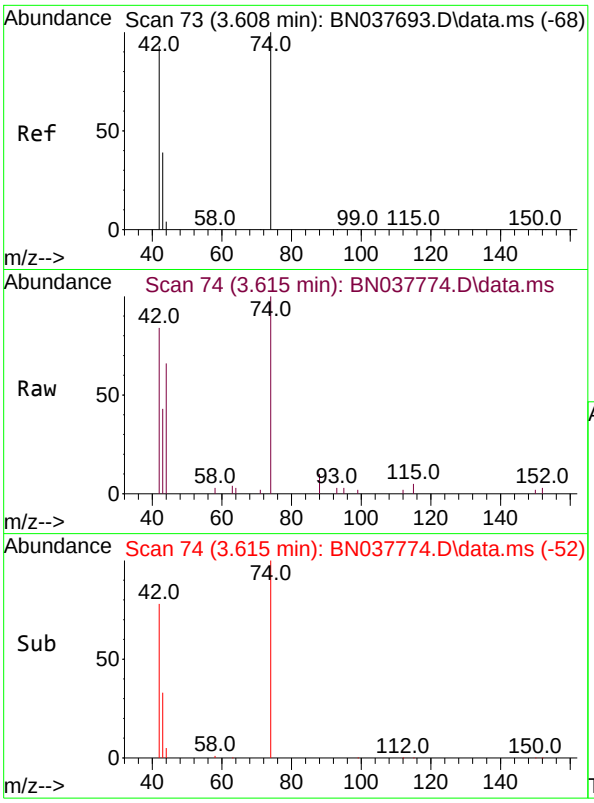


#2
1,4-Dioxane
Concen: 0.408 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion: 88 Resp: 3351

Ion	Ratio	Lower	Upper
88	100		
43	30.6	26.8	40.2
58	74.3	61.9	92.9



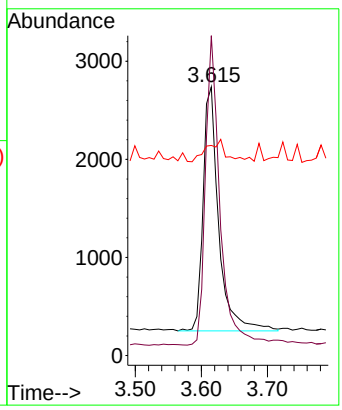


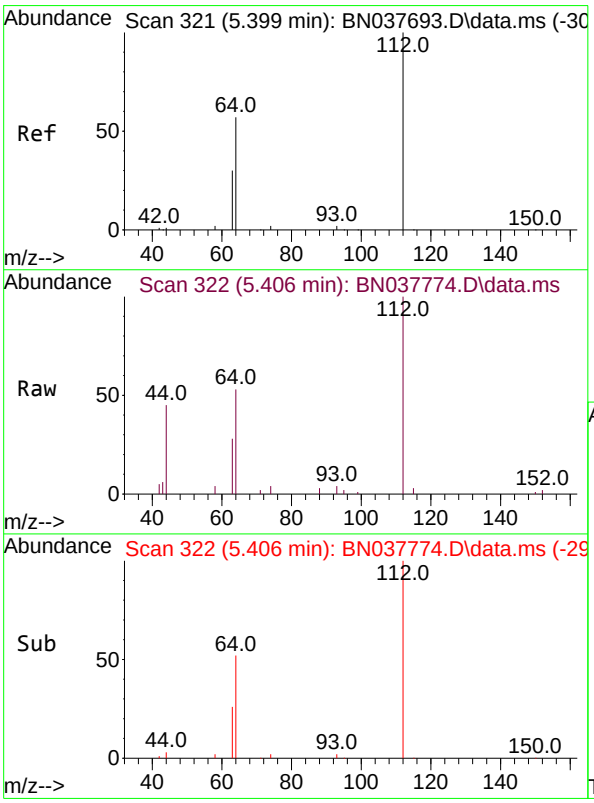
#3
n-Nitrosodimethylamine
Concen: 0.381 ng
RT: 3.615 min Scan# 74
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 4085

Ion	Ratio	Lower	Upper
42	100		
74	118.1	86.0	129.0
44	11.0	8.4	12.6

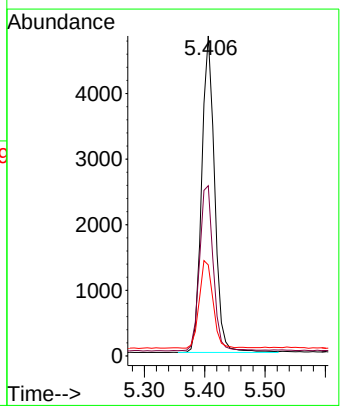


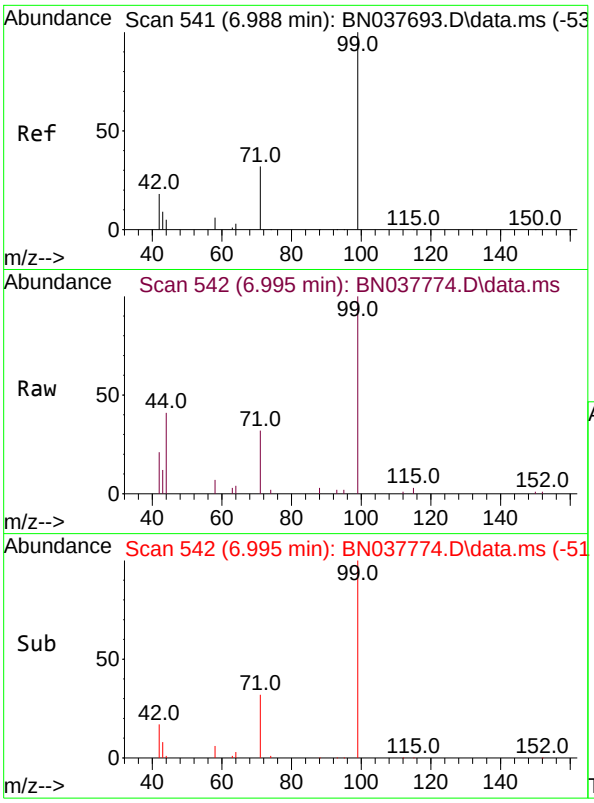


#4
2-Fluorophenol
Concen: 0.399 ng
RT: 5.406 min Scan# 322
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:112 Resp: 7221

Ion	Ratio	Lower	Upper
112	100		
64	55.2	44.9	67.3
63	29.2	24.7	37.1



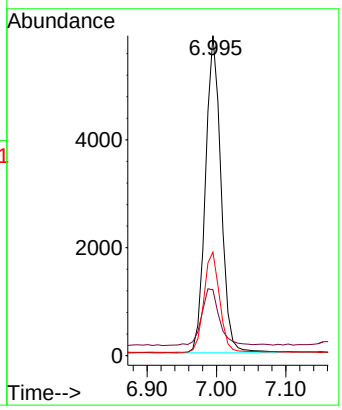


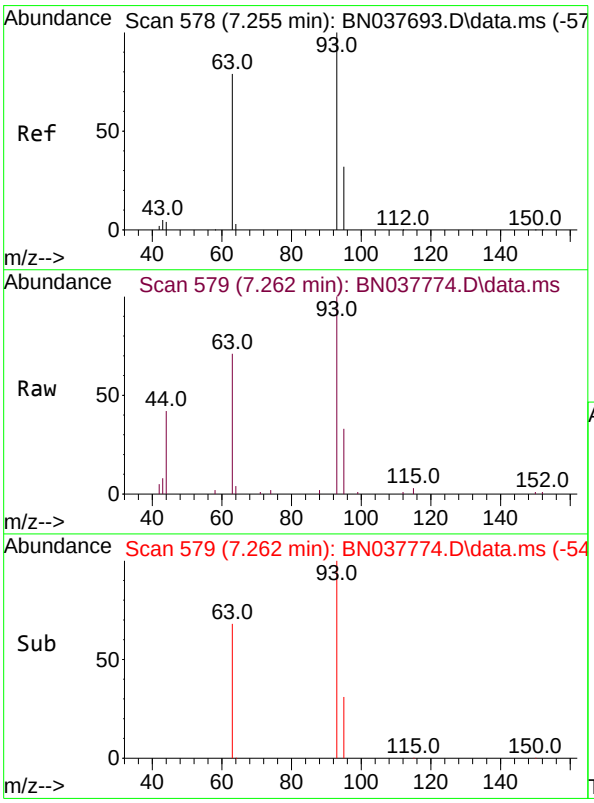
#5
Phenol-d6
Concen: 0.390 ng
RT: 6.995 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 9149

Ion	Ratio	Lower	Upper
99	100		
42	20.7	16.6	24.8
71	32.0	26.7	40.1

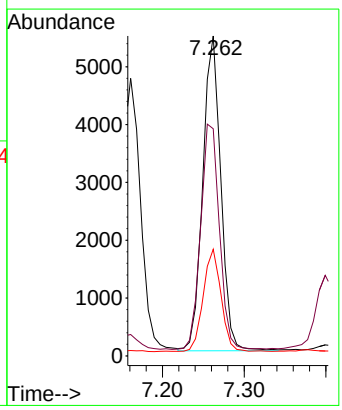


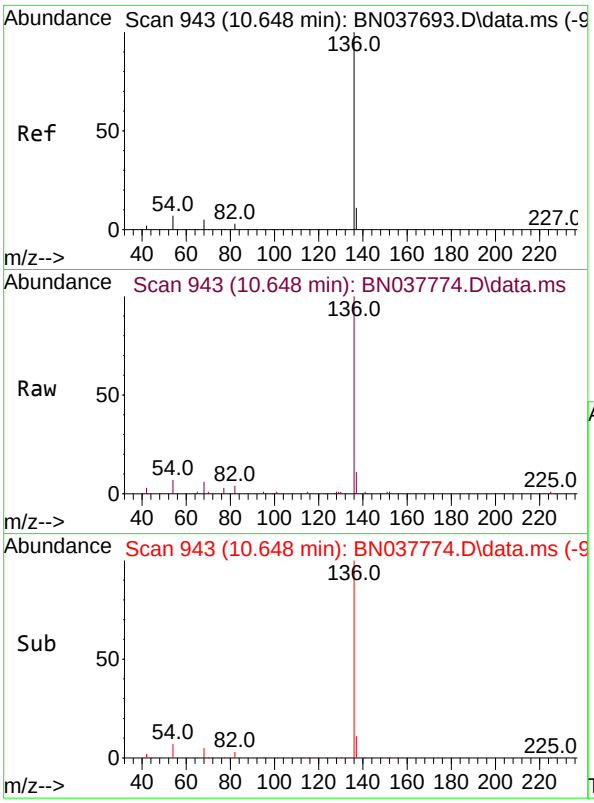


#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.262 min Scan# 579
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion: 93 Resp: 8348

Ion	Ratio	Lower	Upper
93	100		
63	74.1	60.6	90.8
95	32.0	26.0	39.0



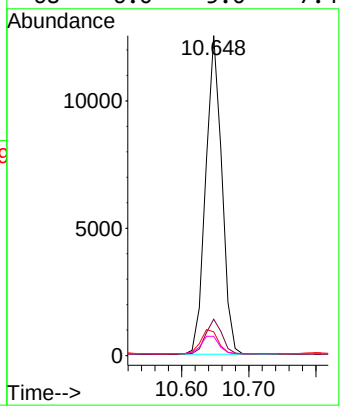


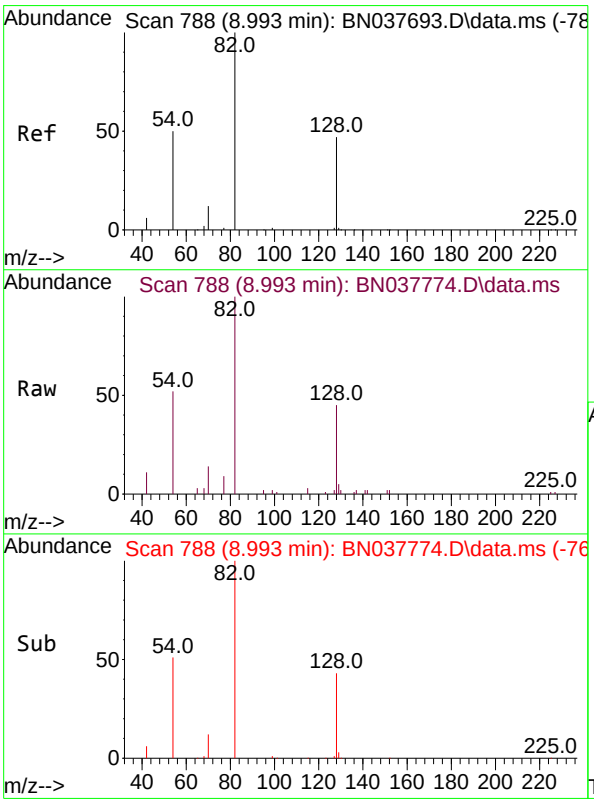
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 20894

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.4	6.3	9.5
68	6.0	5.0	7.4

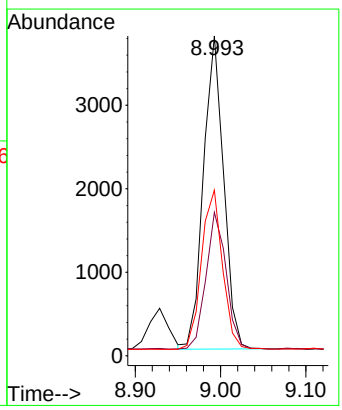


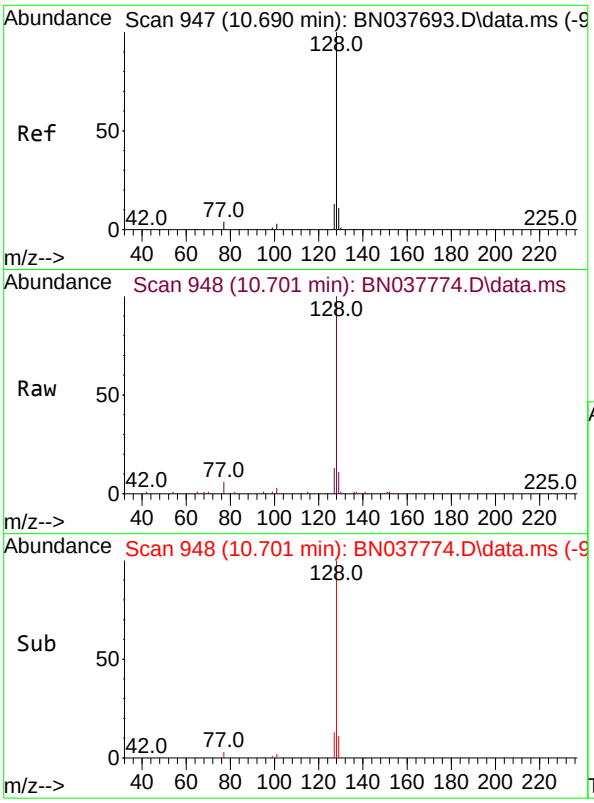


#8
Nitrobenzene-d5
Concen: 0.405 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion: 82 Resp: 6183

Ion	Ratio	Lower	Upper
82	100		
128	44.9	38.3	57.5
54	51.8	41.4	62.2



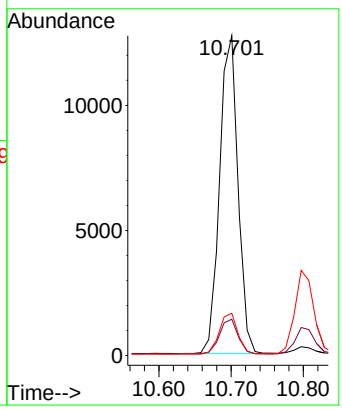


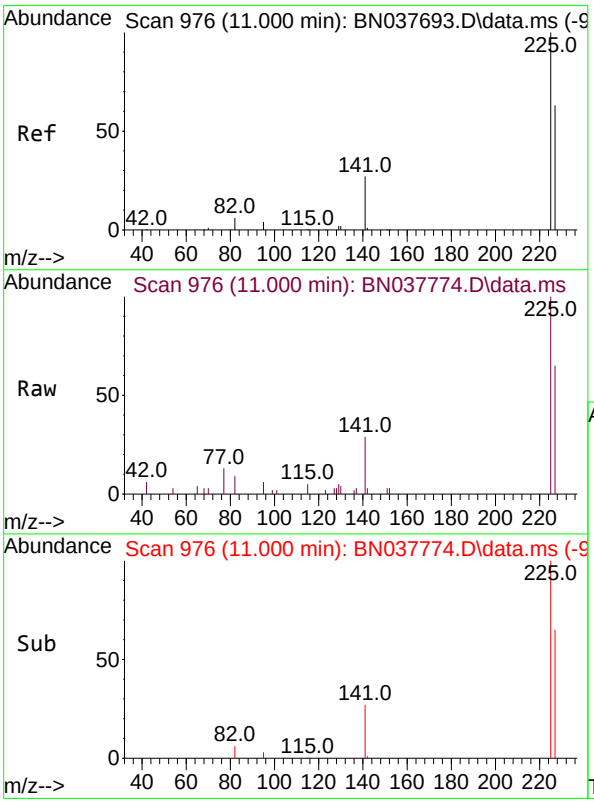
#9
Naphthalene
Concen: 0.395 ng
RT: 10.701 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 22536

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.2	10.9	16.3

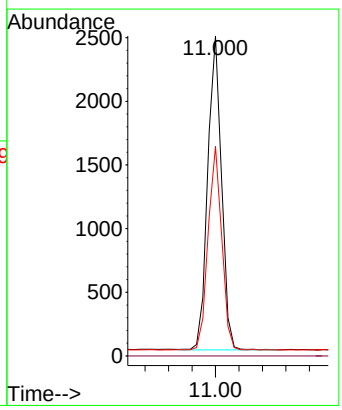


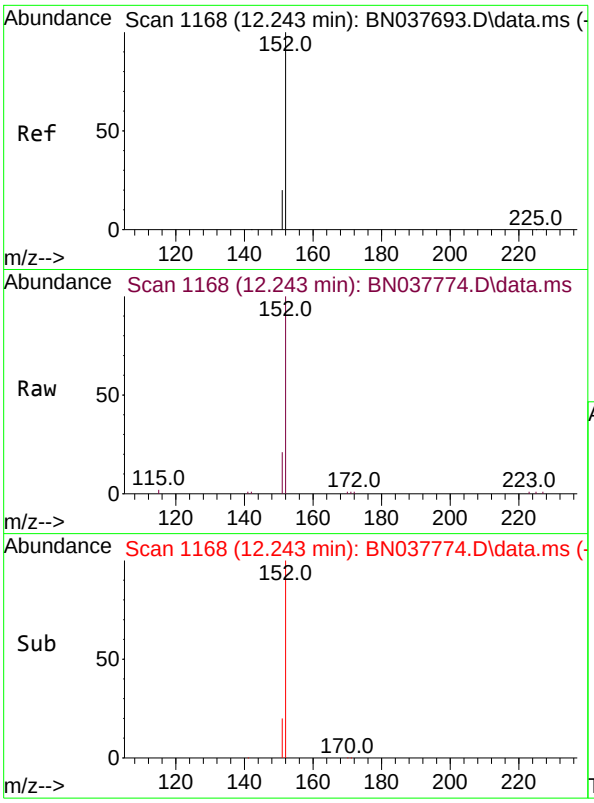


#10
Hexachlorobutadiene
Concen: 0.388 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:225 Resp: 4013

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	50.9	76.3



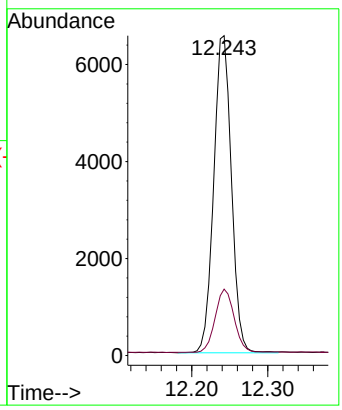


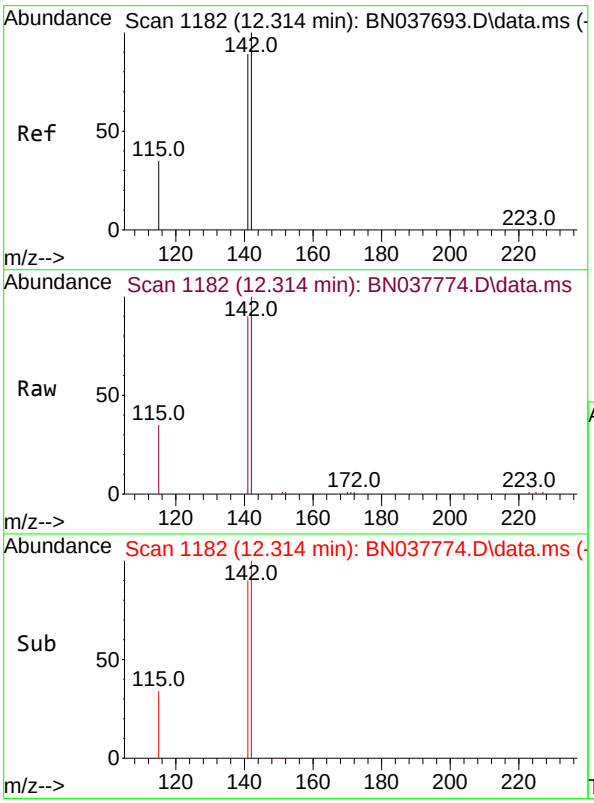
#11
2-Methylnaphthalene-d10
Concen: 0.382 ng
RT: 12.243 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 10579

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.0	25.6

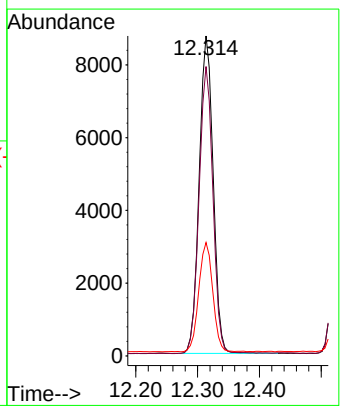


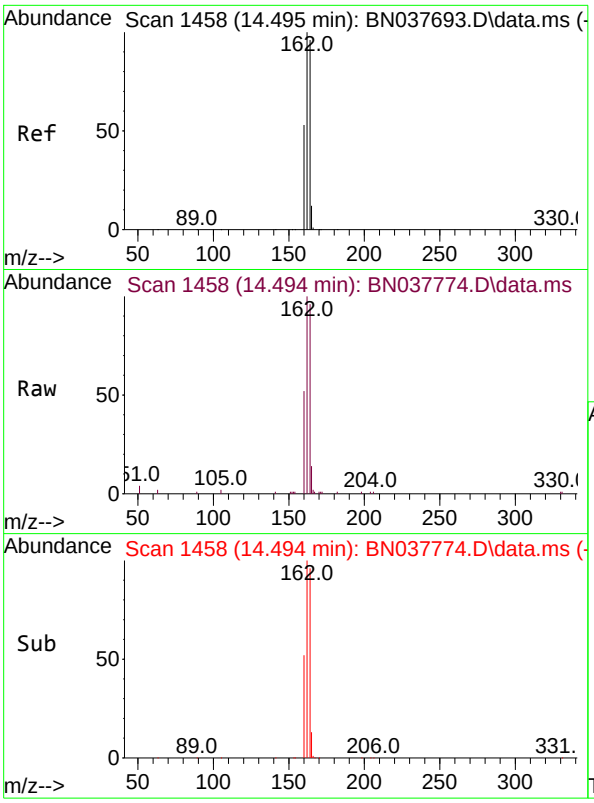


#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:142 Resp: 13704

Ion	Ratio	Lower	Upper
142	100		
141	90.4	71.6	107.4
115	35.4	28.6	43.0



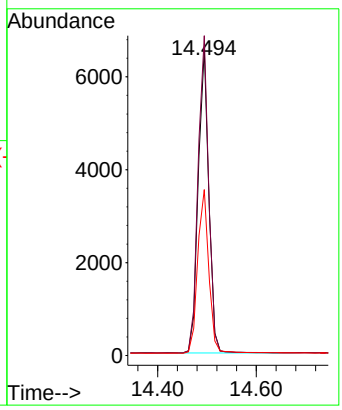


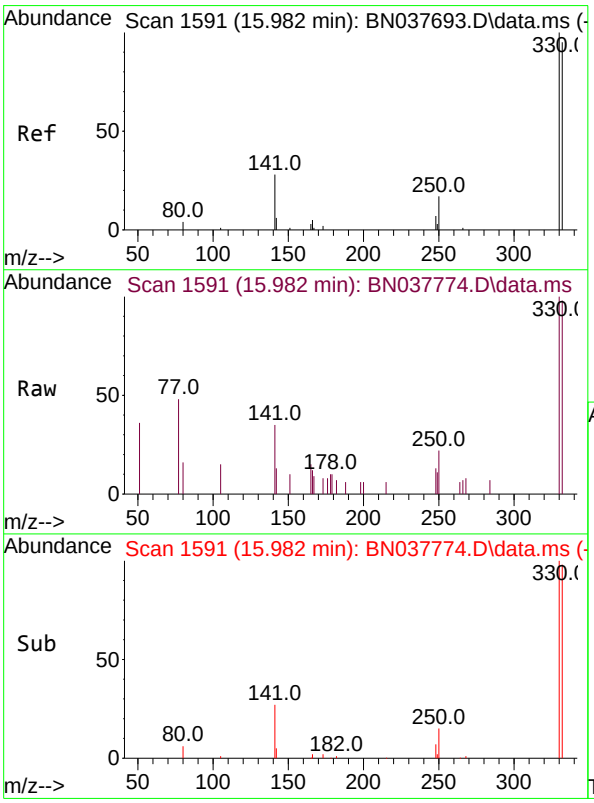
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 9741

Ion	Ratio	Lower	Upper
164	100		
162	104.5	83.1	124.7
160	54.2	44.3	66.5

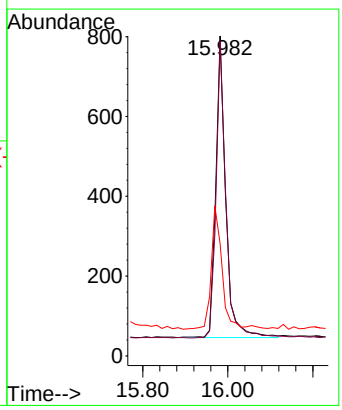


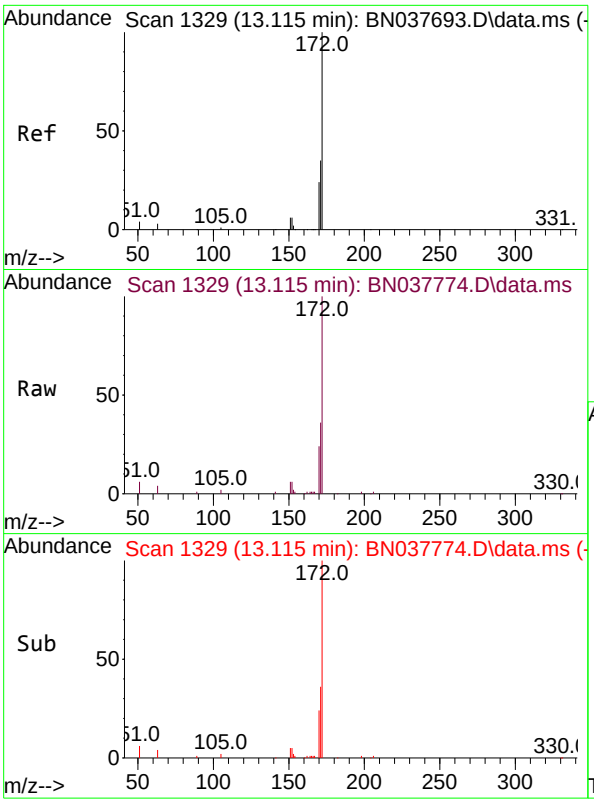


#14
2,4,6-Tribromophenol
Concen: 0.485 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:330 Resp: 1232

Ion	Ratio	Lower	Upper
330	100		
332	97.6	75.3	112.9
141	43.4	35.0	52.4



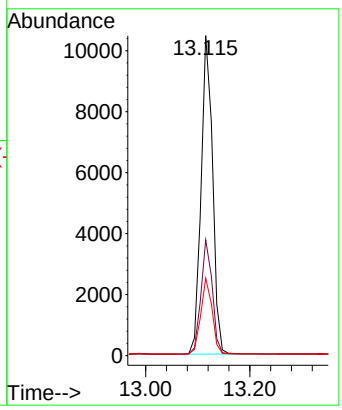


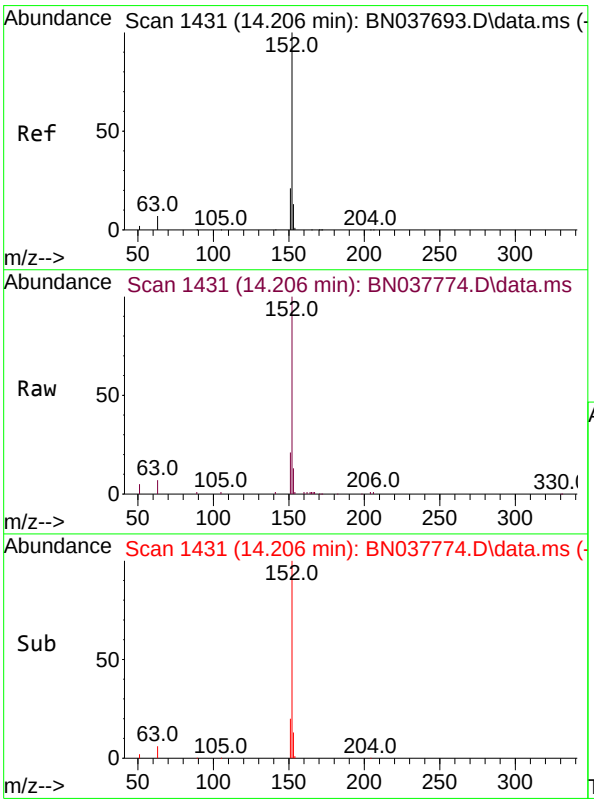
#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 16033

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	24.2	19.8	29.8

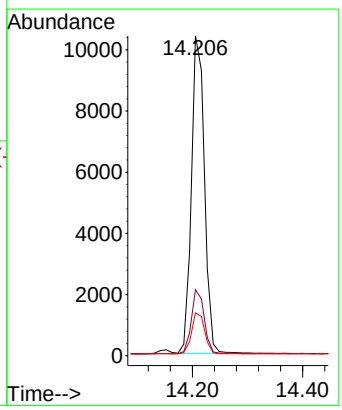


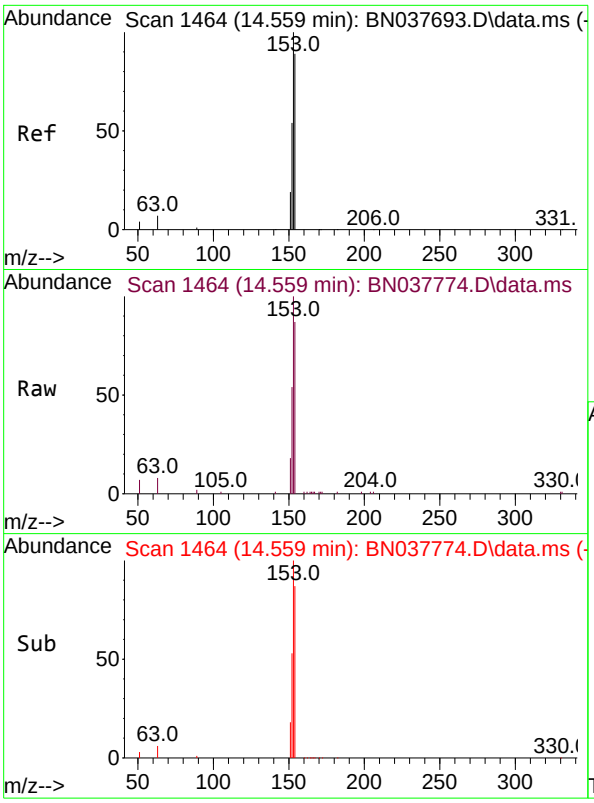


#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:152 Resp: 16996

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	13.2	10.4	15.6



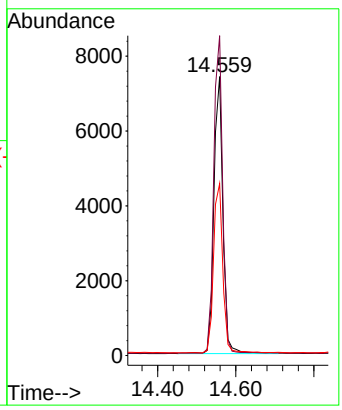


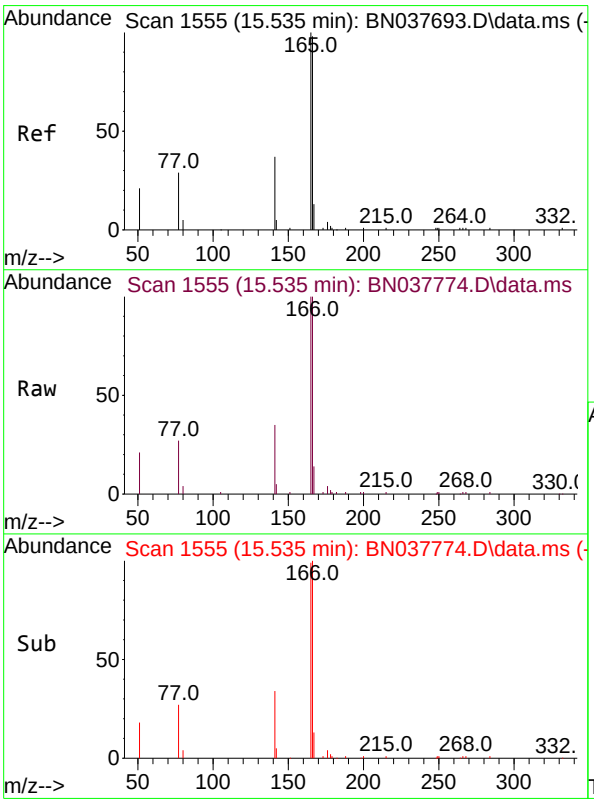
#17
Acenaphthene
Concen: 0.391 ng
RT: 14.559 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 11822

Ion	Ratio	Lower	Upper
154	100		
153	113.9	89.8	134.8
152	63.1	50.2	75.2

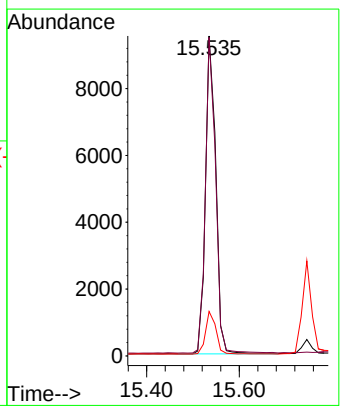


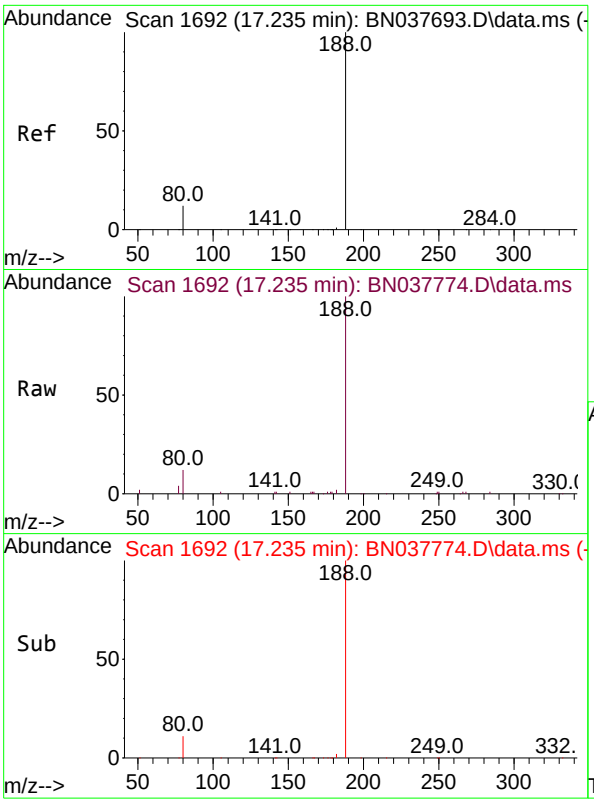


#18
Fluorene
Concen: 0.388 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:166 Resp: 14211

Ion	Ratio	Lower	Upper
166	100		
165	99.7	79.6	119.4
167	13.7	10.6	16.0



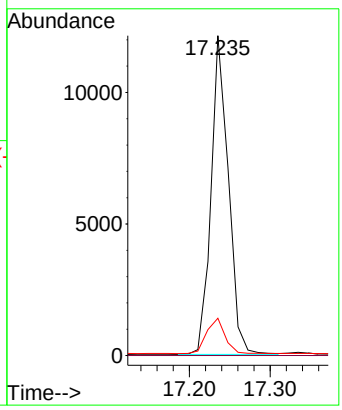


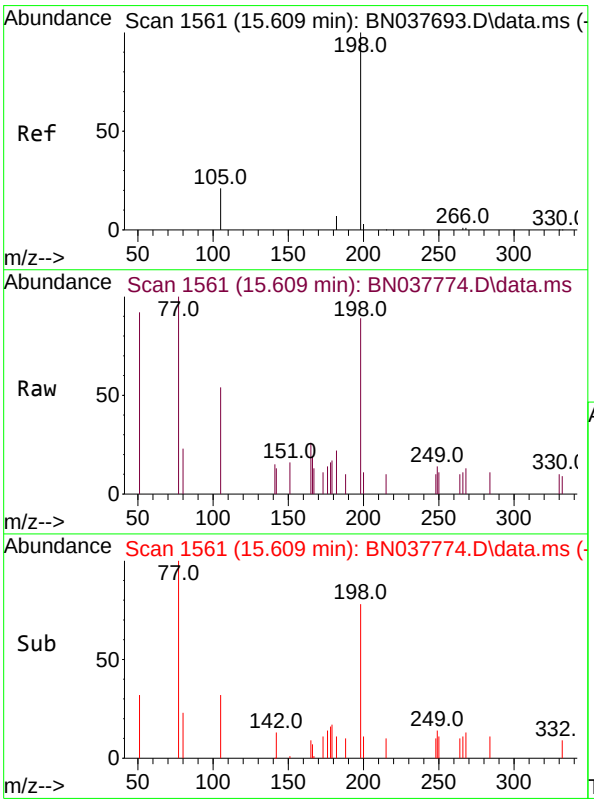
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 18065

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.7	10.6	15.8

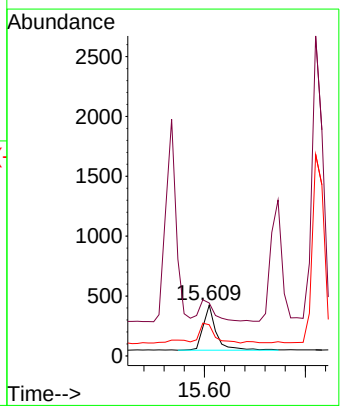


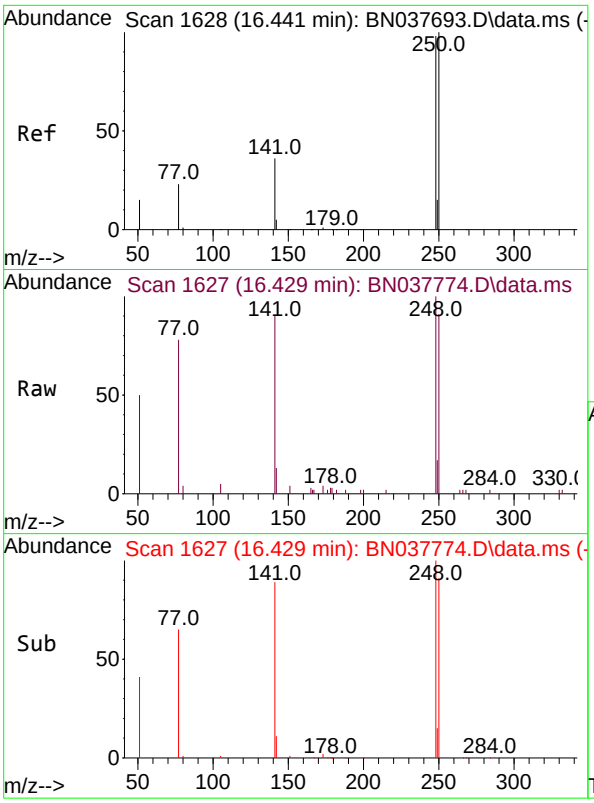


#20
4,6-Dinitro-2-methylphenol
Concen: 0.399 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:198 Resp: 668

Ion	Ratio	Lower	Upper
198	100		
51	104.0	95.1	142.7
105	61.2	53.8	80.6



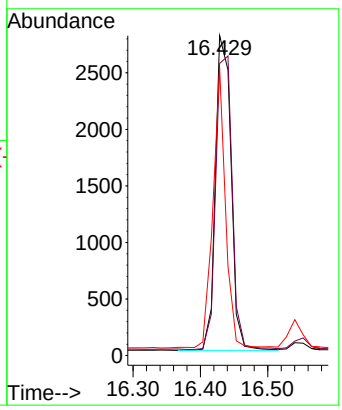


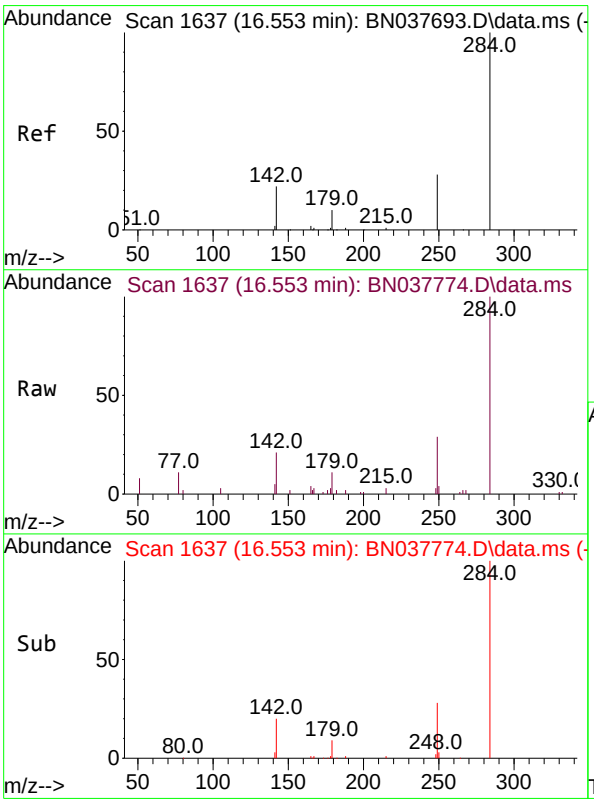
#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 4506

Ion	Ratio	Lower	Upper
248	100		
250	91.3	81.5	122.3
141	90.0	30.8	46.2#

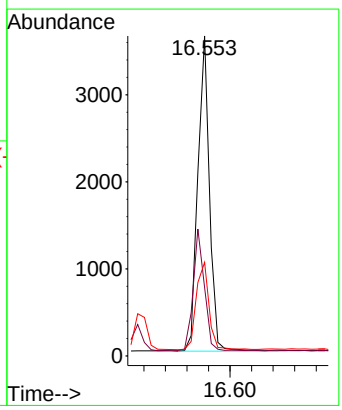


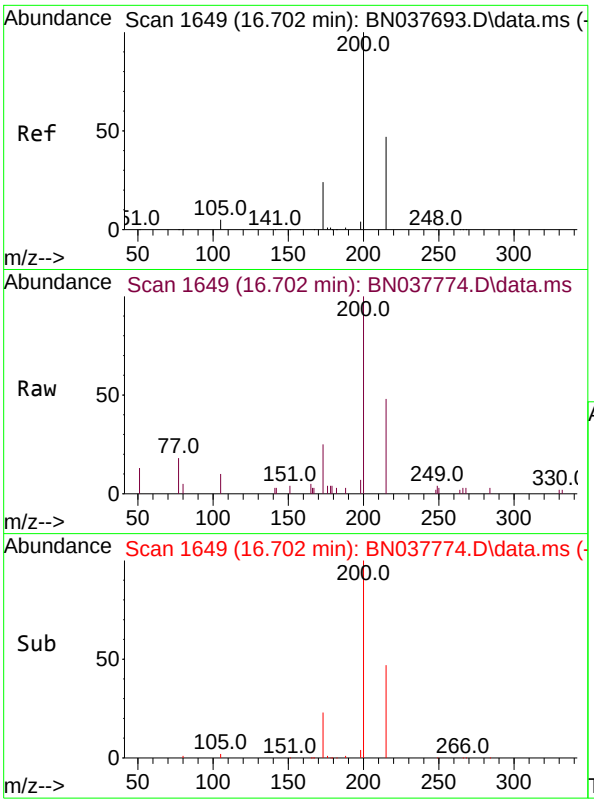


#22
Hexachlorobenzene
Concen: 0.400 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:284 Resp: 5415

Ion	Ratio	Lower	Upper
284	100		
142	37.4	30.9	46.3
249	30.2	24.8	37.2



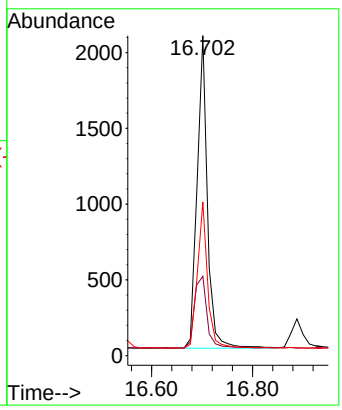


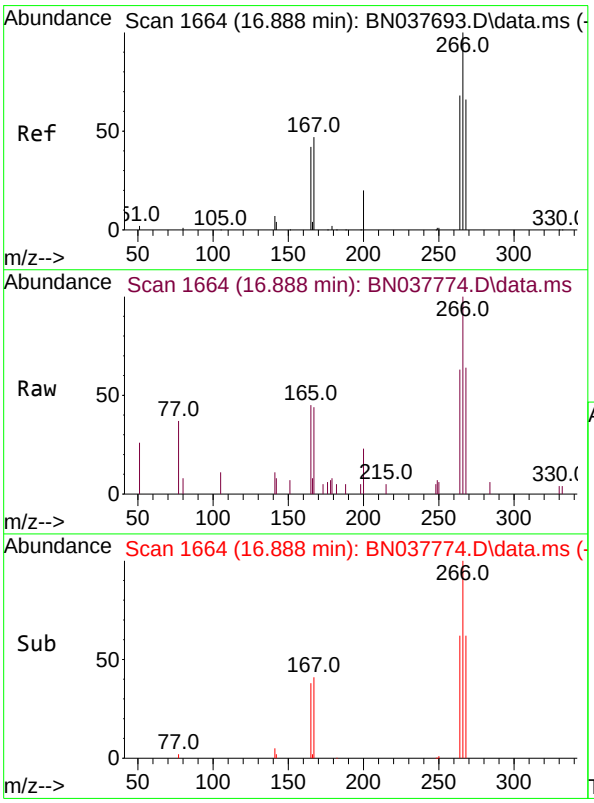
#23
Atrazine
Concen: 0.389 ng
RT: 16.702 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 2912

Ion	Ratio	Lower	Upper
200	100		
173	24.8	21.4	32.2
215	48.0	39.2	58.8

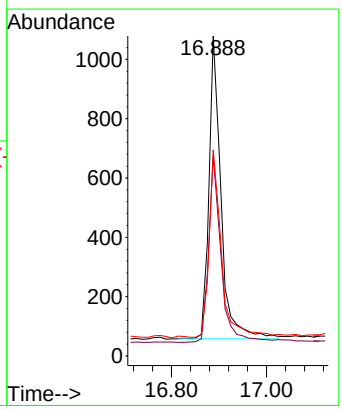


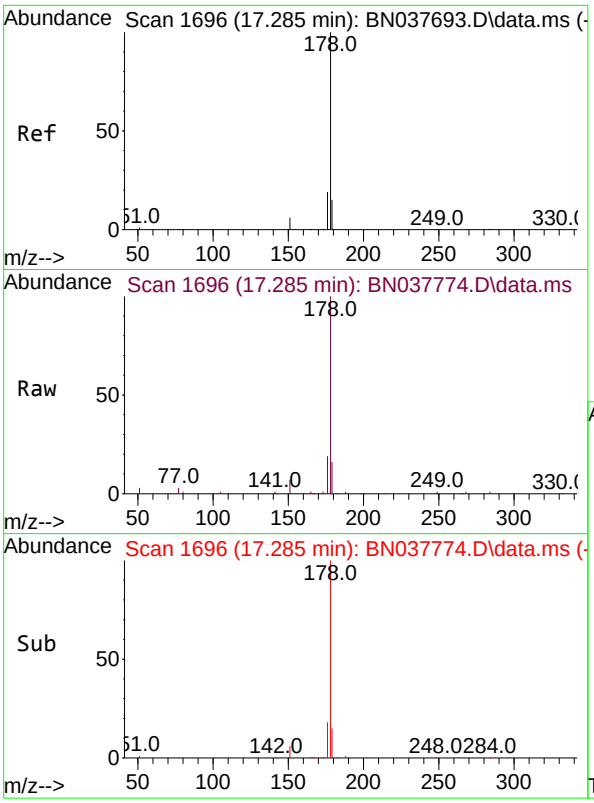


#24
Pentachlorophenol
Concen: 0.457 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:266 Resp: 1796

Ion	Ratio	Lower	Upper
266	100		
264	63.0	51.6	77.4
268	63.9	53.2	79.8



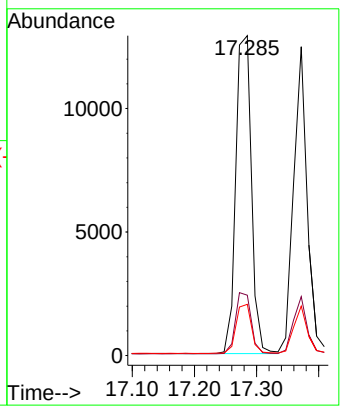


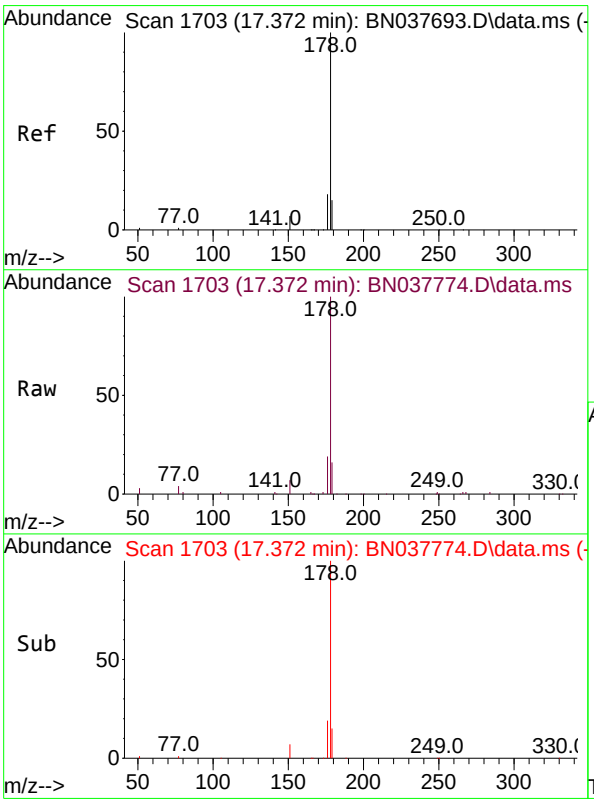
#25
Phenanthrene
Concen: 0.395 ng
RT: 17.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 22453

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.4	12.2	18.2

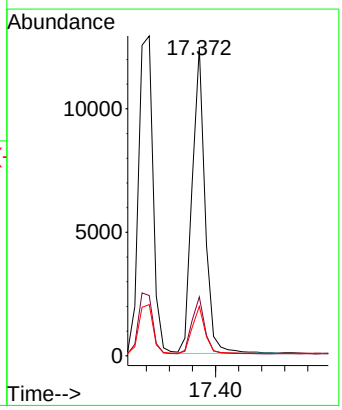


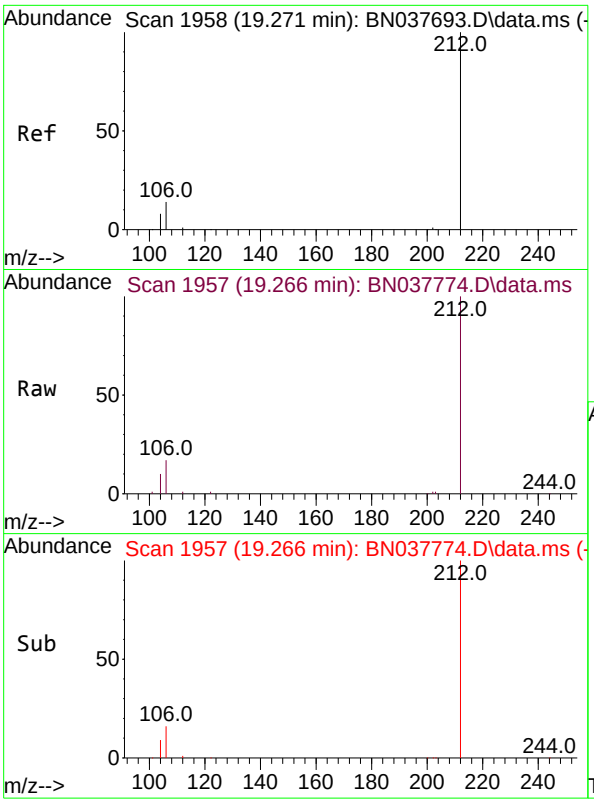


#26
Anthracene
Concen: 0.379 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:178 Resp: 19091

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	22.0
179	15.4	12.2	18.4



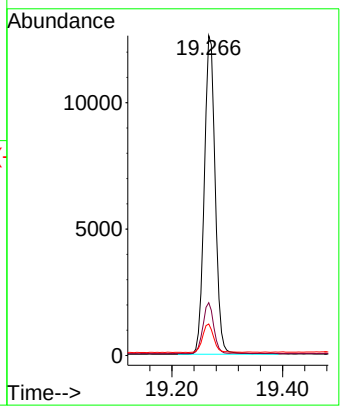


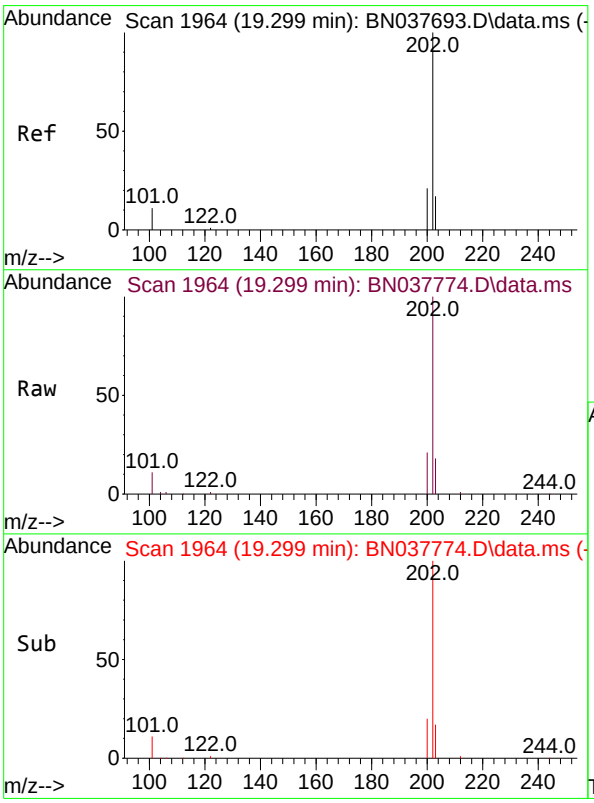
#27
Fluoranthene-d10
Concen: 0.378 ng
RT: 19.266 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 17138

Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	9.2	6.9	10.3

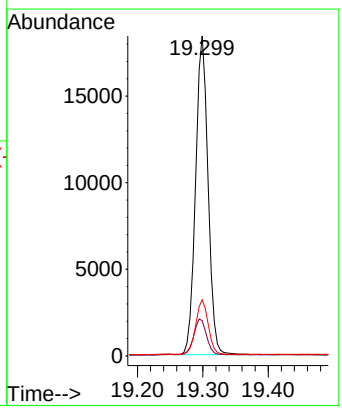


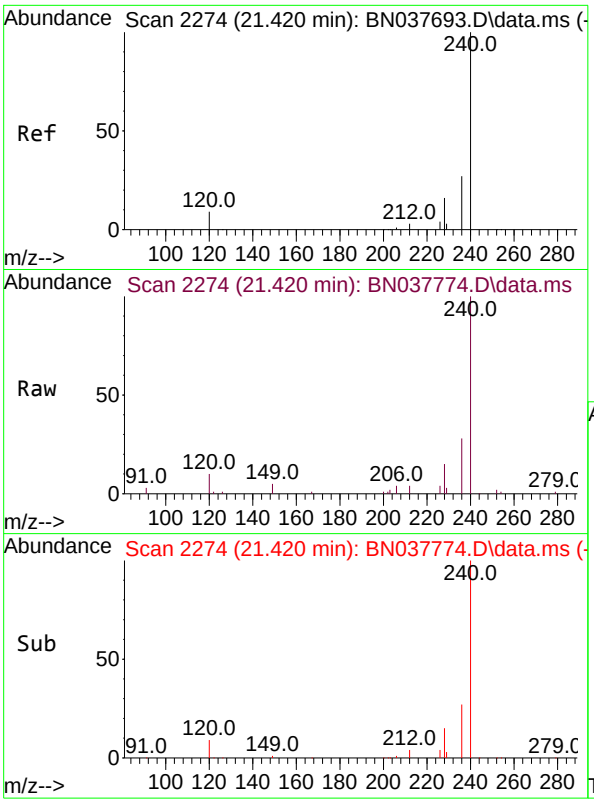


#28
Fluoranthene
Concen: 0.390 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:202 Resp: 24335

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	17.1	13.7	20.5



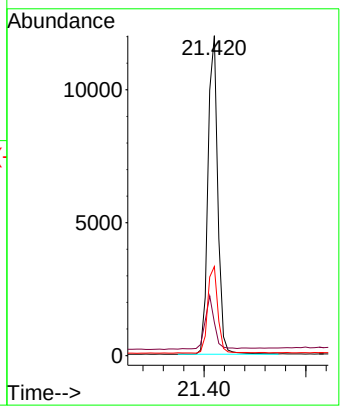


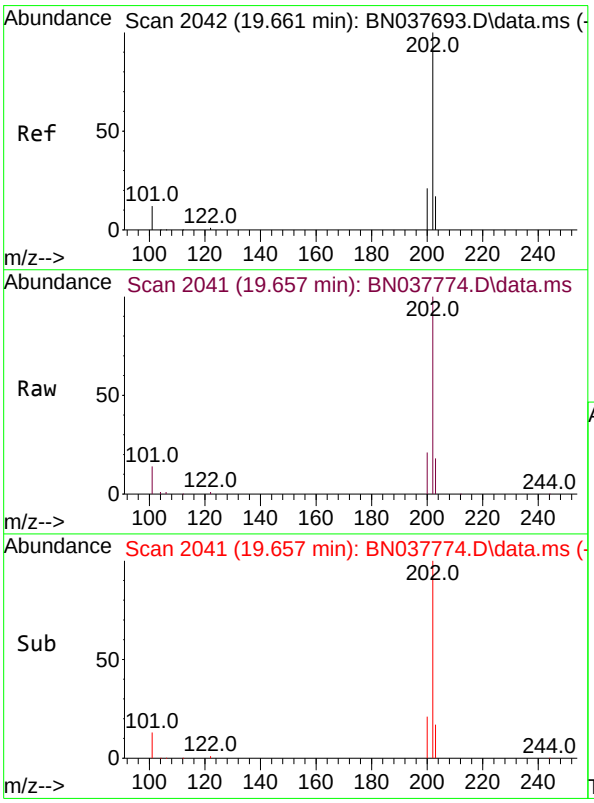
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 16005

Ion	Ratio	Lower	Upper
240	100		
120	10.4	9.2	13.8
236	27.8	22.6	33.8

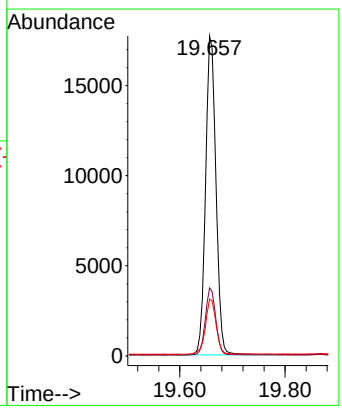


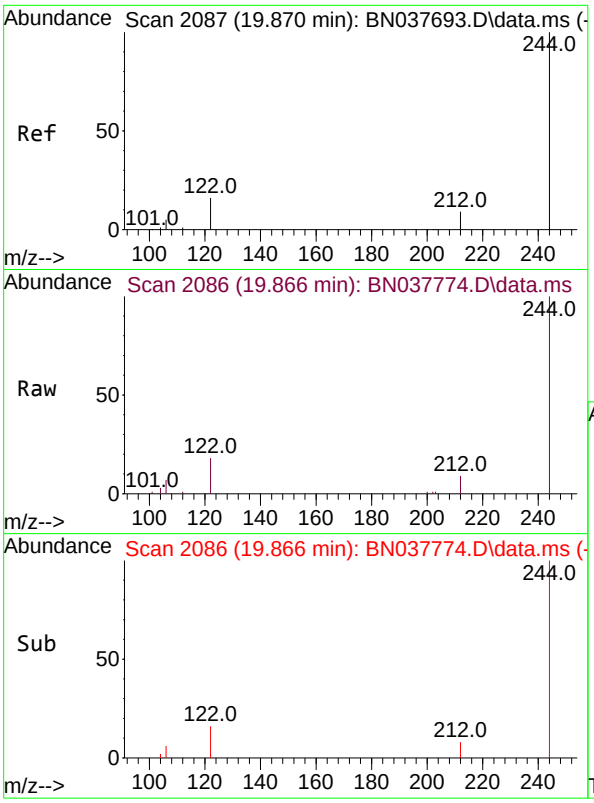


#30
Pyrene
Concen: 0.387 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:202 Resp: 24230

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.7	14.3	21.5



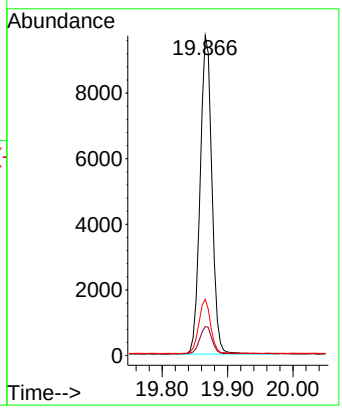


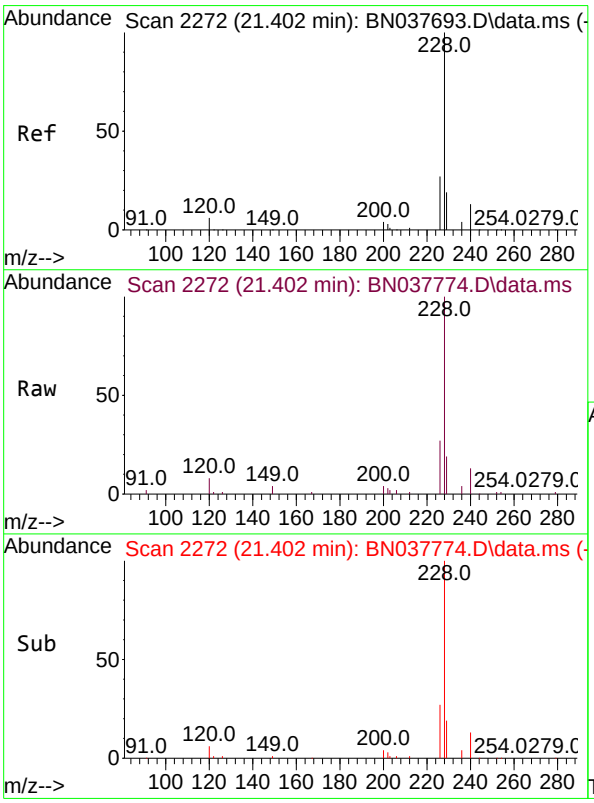
#31
Terphenyl-d14
Concen: 0.373 ng
RT: 19.866 min Scan# 20
Delta R.T. -0.005 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 12130

Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.5	11.3
122	17.6	13.2	19.8

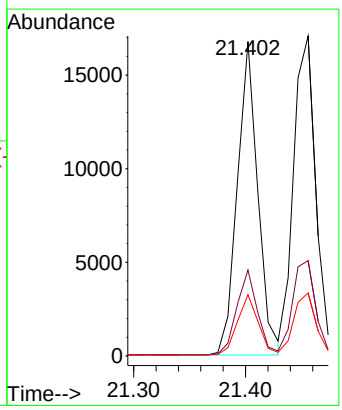


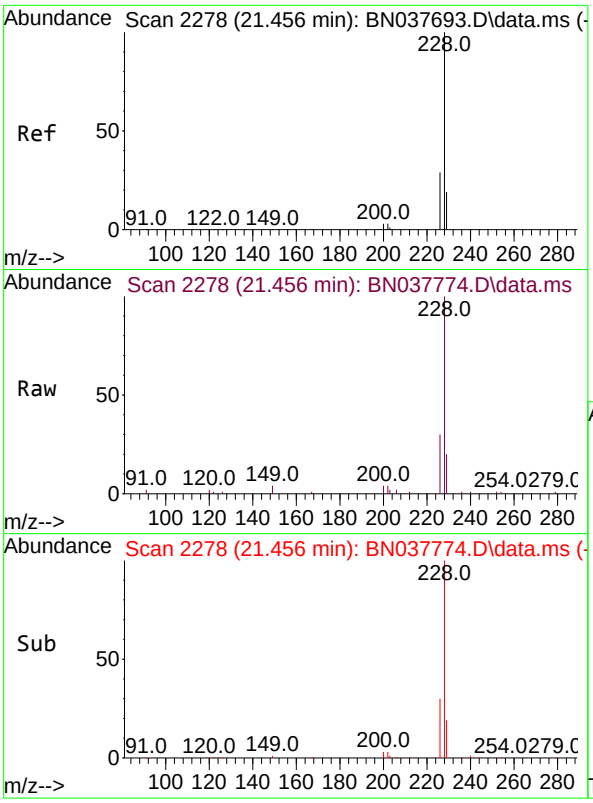


#32
Benzo(a)anthracene
Concen: 0.382 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:228 Resp: 21339

Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.2	33.2
229	19.5	15.8	23.6



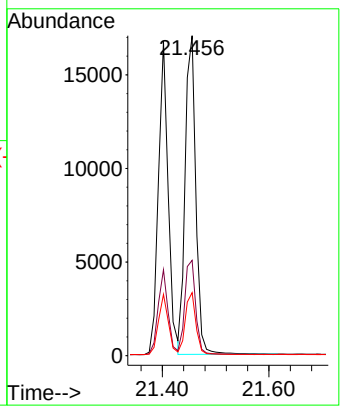


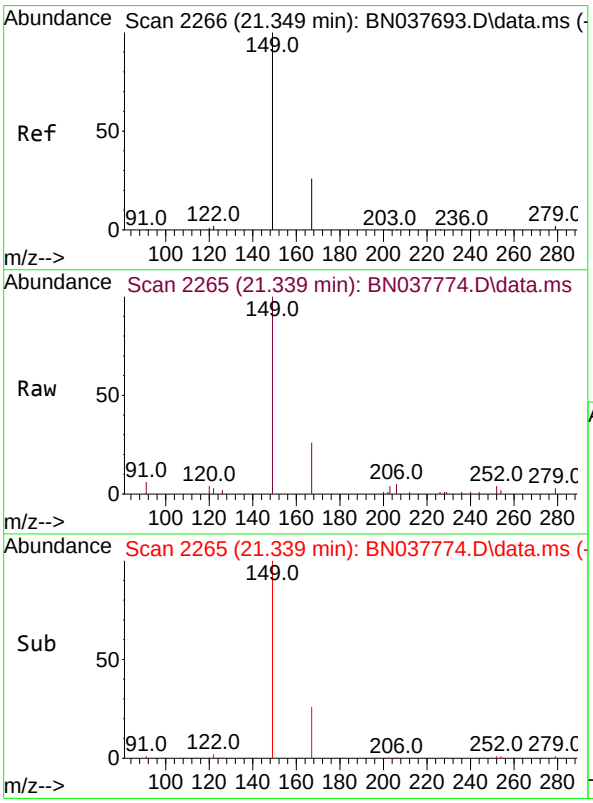
#33
Chrysene
Concen: 0.397 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 23785

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.5	35.3
229	19.7	15.9	23.9

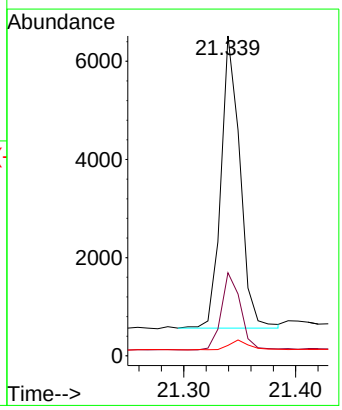


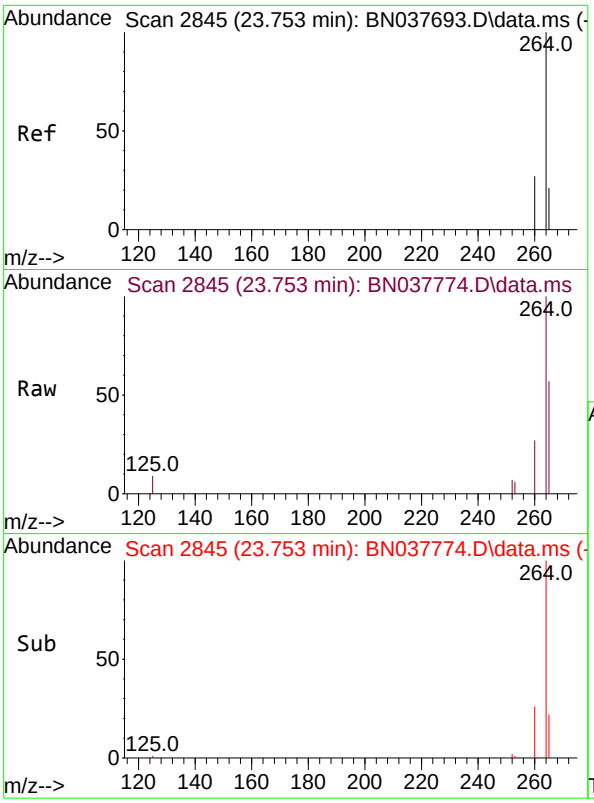


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.424 ng
RT: 21.339 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:149 Resp: 7017

Ion	Ratio	Lower	Upper
149	100		
167	27.1	20.8	31.2
279	3.7	3.3	4.9



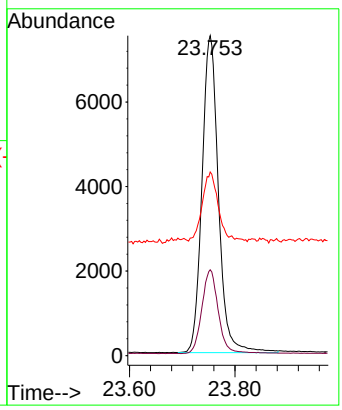


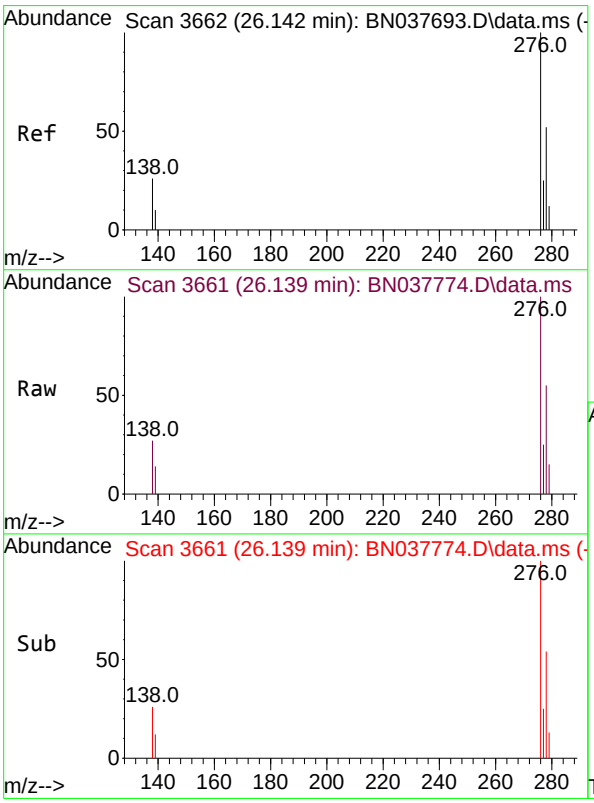
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 16216

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.8	32.8
265	57.4	39.4	59.2

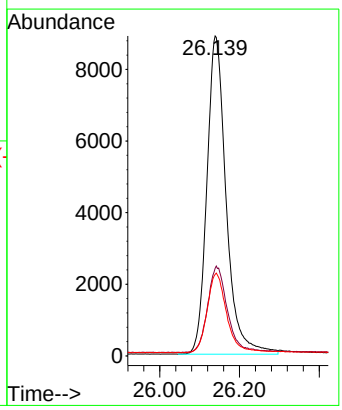


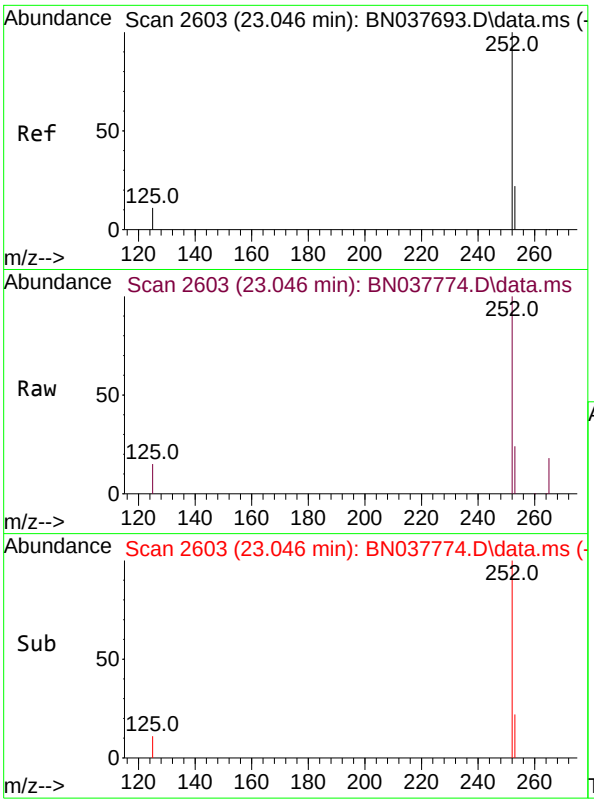


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.438 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.003 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:276 Resp: 29869

Ion	Ratio	Lower	Upper
276	100		
138	27.3	21.9	32.9
277	25.0	20.1	30.1



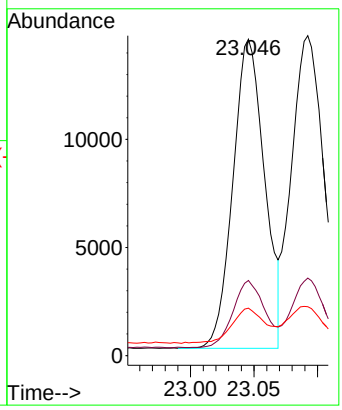


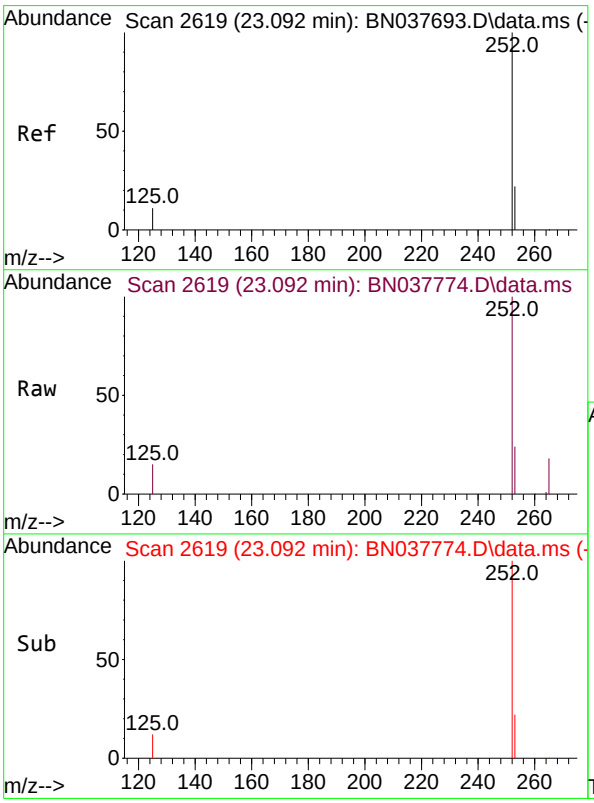
#37
Benzo(b)fluoranthene
Concen: 0.388 ng
RT: 23.046 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 24782

Ion	Ratio	Lower	Upper
252	100		
253	23.7	19.4	29.2
125	15.0	11.2	16.8

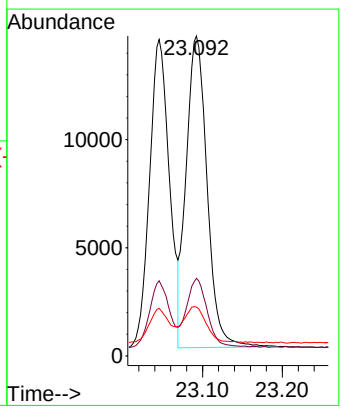


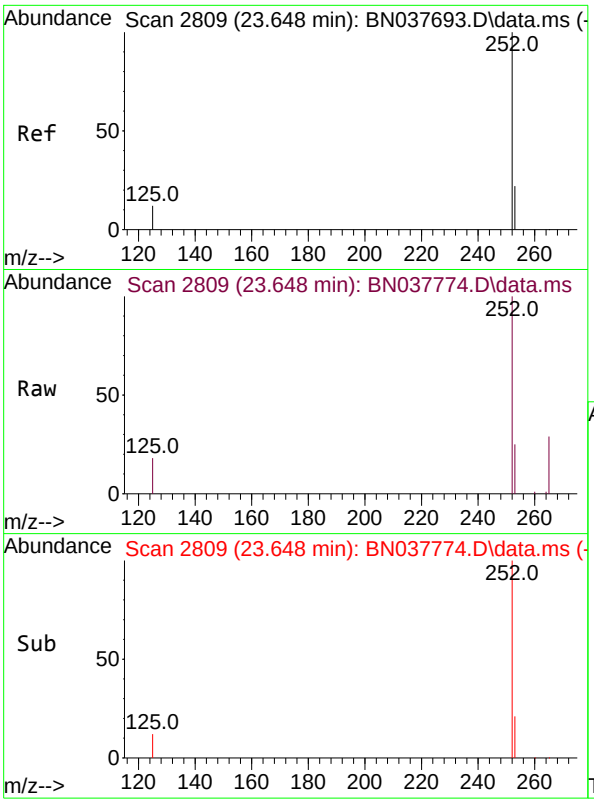


#38
Benzo(k)fluoranthene
Concen: 0.404 ng
RT: 23.092 min Scan# 2619
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:252 Resp: 26275

Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.4	29.0
125	15.3	11.6	17.4



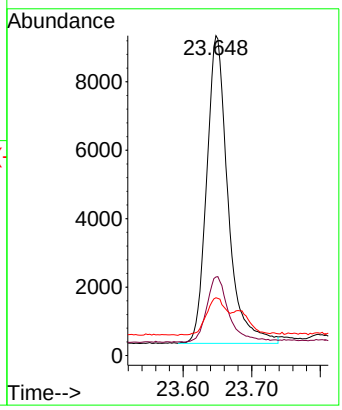


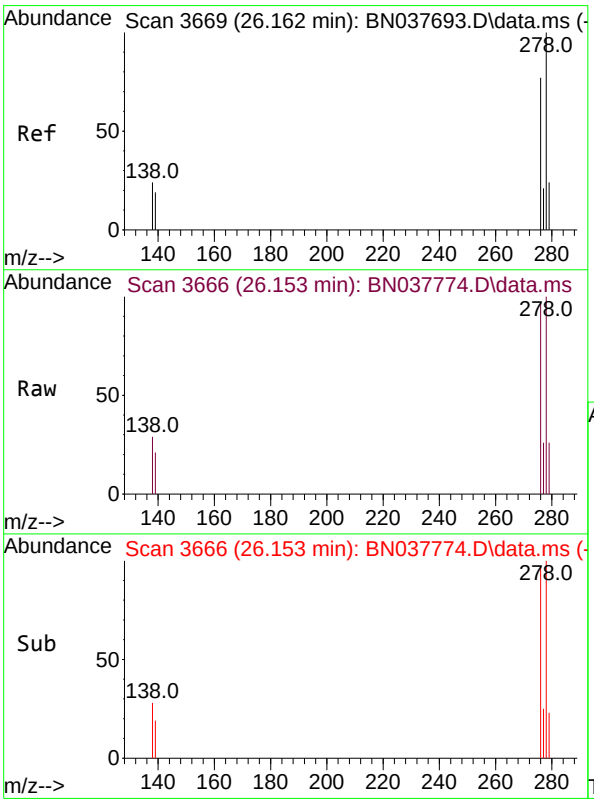
#39
Benzo(a)pyrene
Concen: 0.380 ng
RT: 23.648 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 19411

Ion	Ratio	Lower	Upper
252	100		
253	24.6	20.8	31.2
125	18.1	13.9	20.9

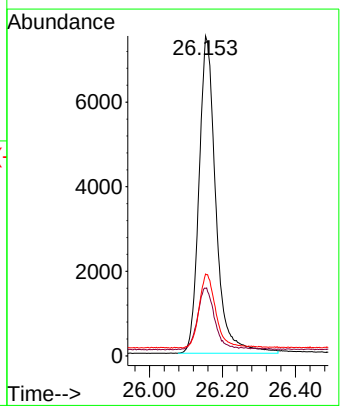


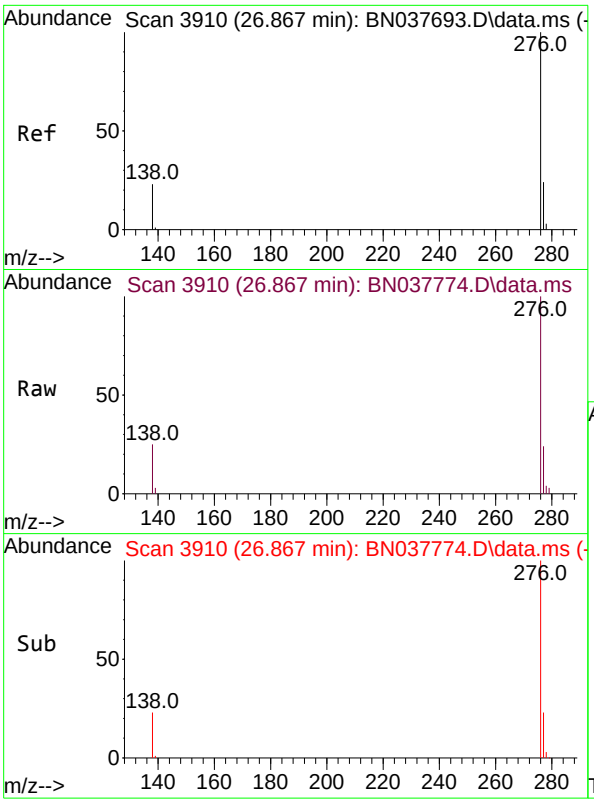


#40
Dibenzo(a,h)anthracene
Concen: 0.442 ng
RT: 26.153 min Scan# 3666
Delta R.T. -0.009 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:278 Resp: 24050

Ion	Ratio	Lower	Upper
278	100		
139	21.1	17.8	26.6
279	25.6	22.0	33.0



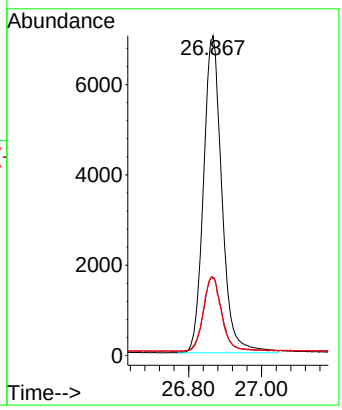


#41
Benzo(g,h,i)perylene
Concen: 0.402 ng
RT: 26.867 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 24546

Ion	Ratio	Lower	Upper
276	100		
277	24.0	20.6	31.0
138	24.5	20.2	30.2



Sample Results: **BN037774.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037774.D
Acq On : 18 Sep 2025 13:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 18 13:43:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	158#	0.00
2		1,4-Dioxane	0.417	0.425	-1.9	159#	0.00
3		n-Nitrosodimethylamine	0.544	0.518	4.8	145	0.00
4	S	2-Fluorophenol	0.918	0.915	0.3	162#	0.00
5	S	Phenol-d6	1.191	1.160	2.6	159#	0.00
6		bis(2-Chloroethyl)ether	1.064	1.058	0.6	156#	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	158#	0.00
8	S	Nitrobenzene-d5	0.293	0.296	-1.0	164#	0.00
9		Naphthalene	1.093	1.079	1.3	158#	0.01
10		Hexachlorobutadiene	0.198	0.192	3.0	153#	0.00
11	SURR	2-Methylnaphthalene-d10	0.530	0.506	4.5	160#	0.00
12		2-Methylnaphthalene	0.676	0.656	3.0	157#	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	157#	0.00
14	S	2,4,6-Tribromophenol	0.104	0.126	-21.2	197#	0.00
15	S	2-Fluorobiphenyl	1.673	1.646	1.6	157#	0.00
16		Acenaphthylene	1.834	1.745	4.9	154#	0.00
17		Acenaphthene	1.240	1.214	2.1	157#	0.00
18		Fluorene	1.502	1.459	2.9	159#	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	160#	0.00
20		4,6-Dinitro-2-methylphenol	0.037	0.037	0.0	180#	0.00
21		4-Bromophenyl-phenylether	0.261	0.249	4.6	159#	-0.01
22		Hexachlorobenzene	0.300	0.300	0.0	163#	0.00
23		Atrazine	0.166	0.161	3.0	171#	0.00
24		Pentachlorophenol	0.087	0.099	-13.8	214#	0.00
25		Phenanthrene	1.259	1.243	1.3	163#	0.00
26		Anthracene	1.116	1.057	5.3	158#	0.00
27	SURR	Fluoranthene-d10	1.004	0.949	5.5	163#	0.00
28		Fluoranthene	1.381	1.347	2.5	165#	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	171#	0.00
30		Pyrene	1.566	1.514	3.3	166#	0.00
31	S	Terphenyl-d14	0.812	0.758	6.7	162#	0.00
32		Benzo(a)anthracene	1.395	1.333	4.4	169#	0.00
33		Chrysene	1.496	1.486	0.7	170#	0.00
34		Bis(2-ethylhexyl)phthalate	0.414	0.438	-5.8	199#	0.00
35	I	Perylene-d12	1.000	1.000	0.0	181#	0.00
36		Indeno(1,2,3-cd)pyrene	1.681	1.842	-9.6	216#	0.00
37		Benzo(b)fluoranthene	1.575	1.528	3.0	178#	0.00
38		Benzo(k)fluoranthene	1.606	1.620	-0.9	192#	0.00
39	C	Benzo(a)pyrene	1.261	1.197	5.1	180#	0.00
40		Dibenzo(a,h)anthracene	1.342	1.483	-10.5	222#	0.00
41		Benzo(g,h,i)perylene	1.506	1.514	-0.5	189#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN037774.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037774.D
Acq On : 18 Sep 2025 13:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 18 13:43:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	158	0.00
2		1,4-Dioxane	0.400	0.408	-2.0	159	0.00
3		n-Nitrosodimethylamine	0.400	0.381	4.8	145	0.00
4	S	2-Fluorophenol	0.400	0.399	0.3	162	0.00
5	S	Phenol-d6	0.400	0.390	2.5	159	0.00
6		bis(2-Chloroethyl)ether	0.400	0.398	0.5	156	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	158	0.00
8	S	Nitrobenzene-d5	0.400	0.405	-1.3	164	0.00
9		Naphthalene	0.400	0.395	1.3	158	0.01
10		Hexachlorobutadiene	0.400	0.388	3.0	153	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.382	4.5	160	0.00
12		2-Methylnaphthalene	0.400	0.388	3.0	157	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	157	0.00
14	S	2,4,6-Tribromophenol	0.400	0.485	-21.2	197	0.00
15	S	2-Fluorobiphenyl	0.400	0.394	1.5	157	0.00
16		Acenaphthylene	0.400	0.380	5.0	154	0.00
17		Acenaphthene	0.400	0.391	2.3	157	0.00
18		Fluorene	0.400	0.388	3.0	159	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	160	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.399	0.3	180	0.00
21		4-Bromophenyl-phenylether	0.400	0.383	4.3	159	-0.01
22		Hexachlorobenzene	0.400	0.400	0.0	163	0.00
23		Atrazine	0.400	0.389	2.8	171	0.00
24		Pentachlorophenol	0.400	0.457	-14.2	214	0.00
25		Phenanthrene	0.400	0.395	1.3	163	0.00
26		Anthracene	0.400	0.379	5.3	158	0.00
27	SURR	Fluoranthene-d10	0.400	0.378	5.5	163	0.00
28		Fluoranthene	0.400	0.390	2.5	165	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	171	0.00
30		Pyrene	0.400	0.387	3.3	166	0.00
31	S	Terphenyl-d14	0.400	0.373	6.8	162	0.00
32		Benzo(a)anthracene	0.400	0.382	4.5	169	0.00
33		Chrysene	0.400	0.397	0.8	170	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.424	-6.0	199	0.00
35	I	Perylene-d12	0.400	0.400	0.0	181	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.438	-9.5	216	0.00
37		Benzo(b)fluoranthene	0.400	0.388	3.0	178	0.00
38		Benzo(k)fluoranthene	0.400	0.404	-1.0	192	0.00
39	C	Benzo(a)pyrene	0.400	0.380	5.0	180	0.00
40		Dibenzo(a,h)anthracene	0.400	0.442	-10.5	222	0.00
41		Benzo(g,h,i)perylene	0.400	0.402	-0.5	189	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3097

Instrument ID: BNA_N Calibration Date/Time: 09/18/2025 14:32

Lab File ID: BN037776.D Init. Calib. Date(s): 09/11/2025 09/11/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.497		-6.2	20.0
Fluoranthene-d10	1.004	0.839		-16.4	20.0
2-Fluorophenol	0.918	0.890		-3.0	20.0
Phenol-d6	1.191	1.130		-5.1	20.0
Nitrobenzene-d5	0.293	0.298		1.7	20.0
2-Fluorobiphenyl	1.673	1.679		0.4	20.0
2,4,6-Tribromophenol	0.104	0.114		9.6	20.0
Terphenyl-d14	0.812	0.801		-1.4	20.0
1,4-Dioxane	0.417	0.428		2.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037776.D
Acq On : 18 Sep 2025 14:32
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

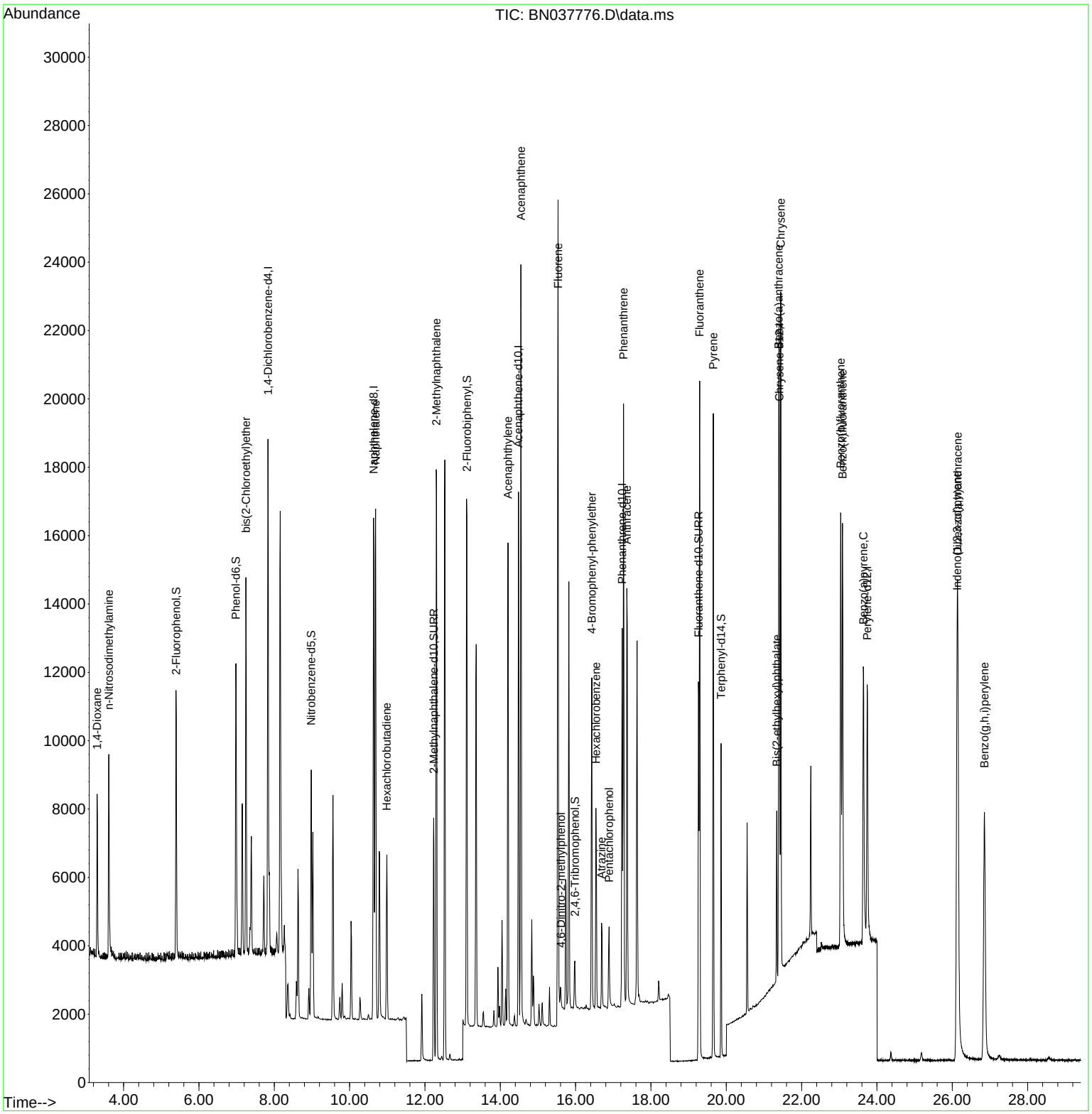
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.833	152	7127	0.400	ng		0.00
7) Naphthalene-d8	10.637	136	18984	0.400	ng		-0.01
13) Acenaphthene-d10	14.484	164	8698	0.400	ng		-0.01
19) Phenanthrene-d10	17.235	188	14526	0.400	ng	#	0.00
29) Chrysene-d12	21.411	240	10438	0.400	ng	#	0.00
35) Perylene-d12	23.744	264	10600	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.399	112	6346	0.388	ng		0.00
5) Phenol-d6	6.980	99	8055	0.380	ng		0.00
8) Nitrobenzene-d5	8.982	82	5651	0.407	ng		-0.01
11) 2-Methylnaphthalene-d10	12.232	152	9430	0.375	ng		-0.01
14) 2,4,6-Tribromophenol	15.982	330	988	0.436	ng		0.00
15) 2-Fluorobiphenyl	13.115	172	14602	0.401	ng		0.00
27) Fluoranthene-d10	19.262	212	12188	0.334	ng		0.00
31) Terphenyl-d14	19.861	244	8356	0.394	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	3048	0.411	ng		94
3) n-Nitrosodimethylamine	3.608	42	3658	0.377	ng	#	90
6) bis(2-Chloroethyl)ether	7.248	93	7546	0.398	ng		100
9) Naphthalene	10.690	128	20305	0.391	ng		99
10) Hexachlorobutadiene	10.989	225	3759	0.400	ng	#	100
12) 2-Methylnaphthalene	12.303	142	12427	0.387	ng		99
16) Acenaphthylene	14.206	152	15171	0.380	ng		100
17) Acenaphthene	14.548	154	10490	0.389	ng		97
18) Fluorene	15.535	166	12152	0.372	ng		100
20) 4,6-Dinitro-2-methylph...	15.609	198	454	0.337	ng		96
21) 4-Bromophenyl-phenylether	16.429	248	3832	0.405	ng	#	86
22) Hexachlorobenzene	16.540	284	4737	0.435	ng		99
23) Atrazine	16.689	200	2300	0.382	ng	#	90
24) Pentachlorophenol	16.888	266	1384	0.438	ng		95
25) Phenanthrene	17.273	178	17751	0.388	ng		99
26) Anthracene	17.359	178	15208	0.375	ng		99
28) Fluoranthene	19.294	202	17450	0.348	ng		100
30) Pyrene	19.657	202	17087	0.418	ng		100
32) Benzo(a)anthracene	21.393	228	13864	0.381	ng		99
33) Chrysene	21.447	228	15945	0.408	ng		99
34) Bis(2-ethylhexyl)phtha...	21.339	149	4553	0.422	ng		100
36) Indeno(1,2,3-cd)pyrene	26.127	276	19472	0.437	ng		100
37) Benzo(b)fluoranthene	23.037	252	16161	0.387	ng	#	97
38) Benzo(k)fluoranthene	23.086	252	17089	0.402	ng		97
39) Benzo(a)pyrene	23.642	252	13152	0.394	ng	#	95
40) Dibenzo(a,h)anthracene	26.145	278	15512	0.436	ng		99
41) Benzo(g,h,i)perylene	26.855	276	16486	0.413	ng		99

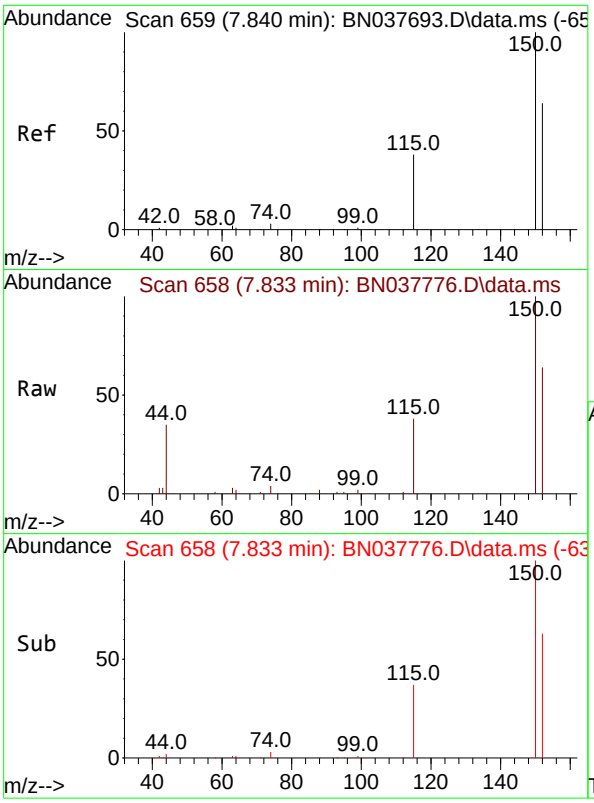
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037776.D
Acq On : 18 Sep 2025 14:32
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



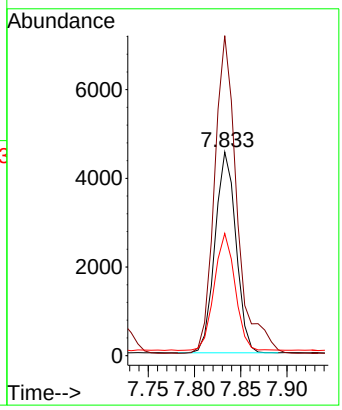


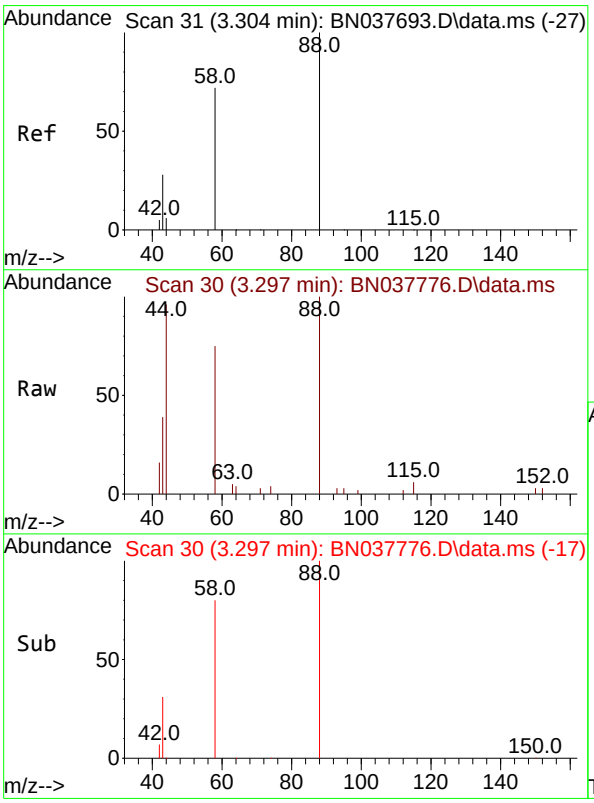
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 7127

Ion	Ratio	Lower	Upper
152	100		
150	157.1	124.5	186.7
115	60.0	49.2	73.8

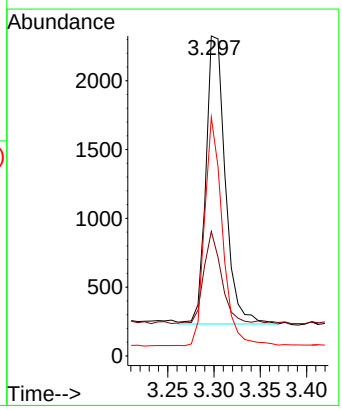


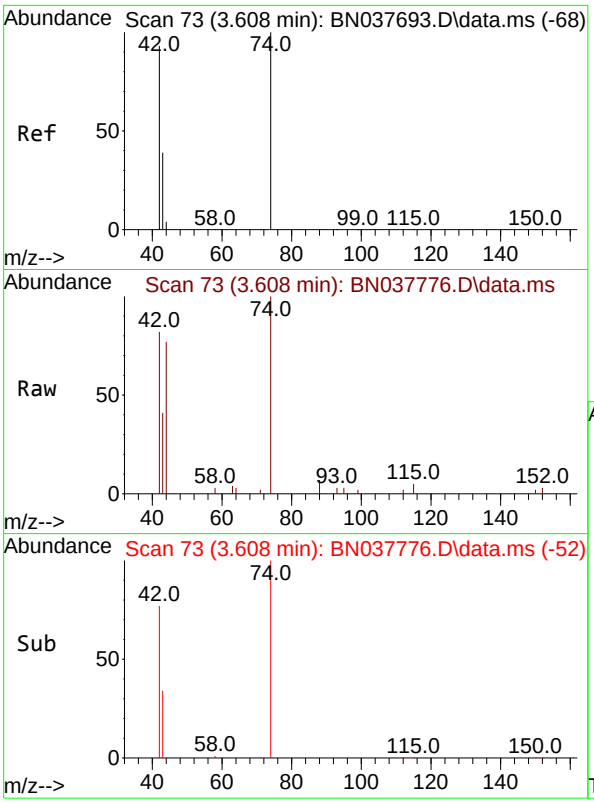


#2
1,4-Dioxane
Concen: 0.411 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion: 88 Resp: 3048

Ion	Ratio	Lower	Upper
88	100		
43	29.1	26.8	40.2
58	73.0	61.9	92.9



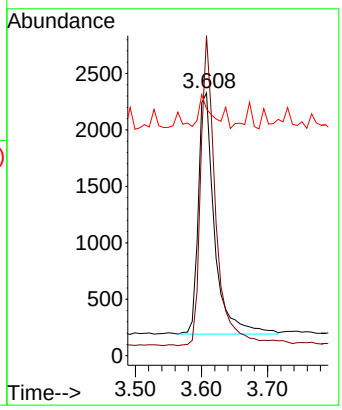


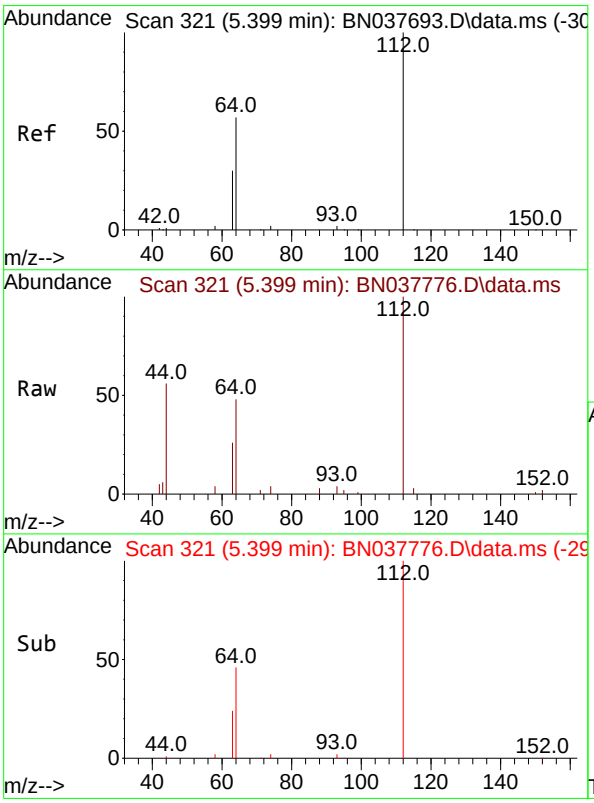
#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 3658

Ion	Ratio	Lower	Upper
42	100		
74	118.6	86.0	129.0
44	8.4	8.4	12.6#

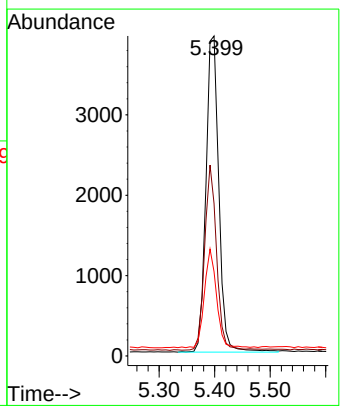


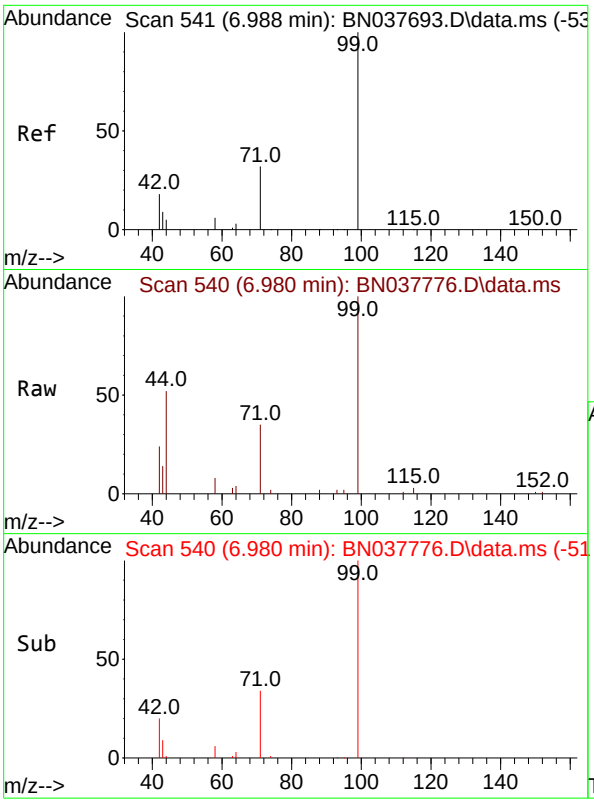


#4
2-Fluorophenol
Concen: 0.388 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:112 Resp: 6346

Ion	Ratio	Lower	Upper
112	100		
64	54.2	44.9	67.3
63	29.2	24.7	37.1



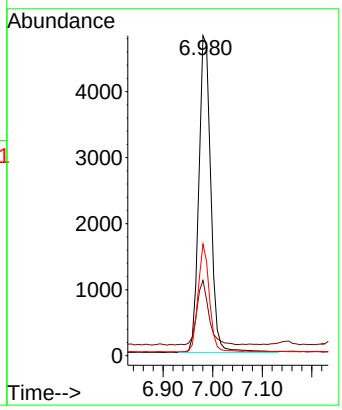


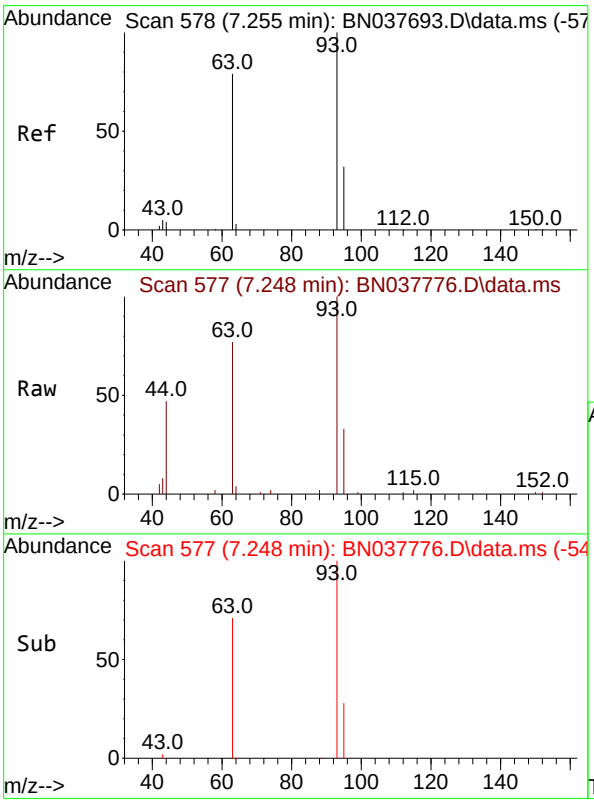
#5
Phenol-d6
Concen: 0.380 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 8055

Ion	Ratio	Lower	Upper
99	100		
42	20.9	16.6	24.8
71	32.2	26.7	40.1

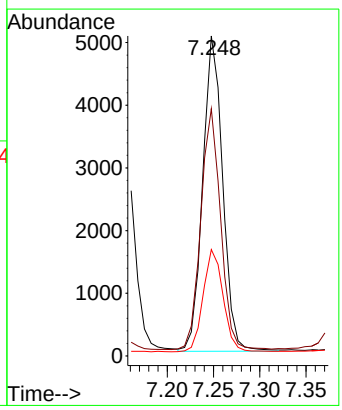


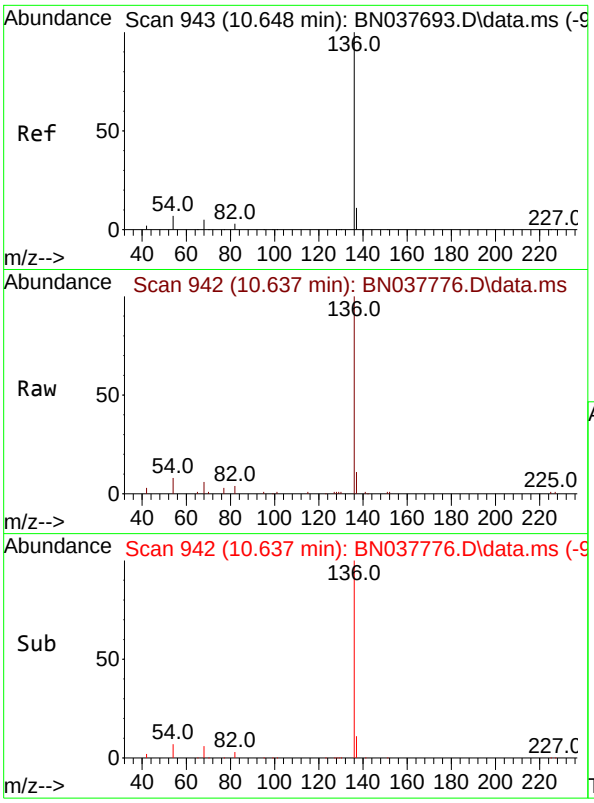


#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion: 93 Resp: 7546

Ion	Ratio	Lower	Upper
93	100		
63	75.4	60.6	90.8
95	32.5	26.0	39.0



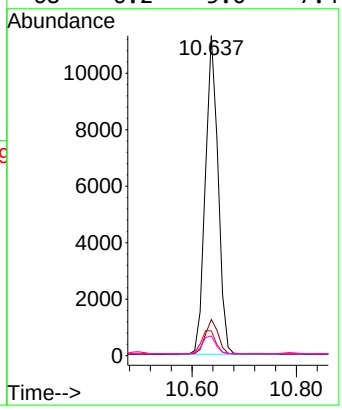


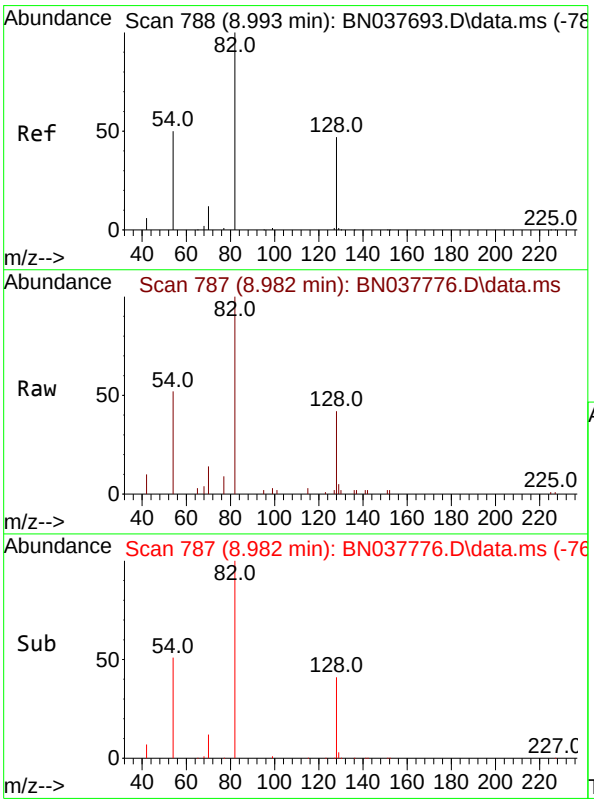
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 18984

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	7.7	6.3	9.5
68	6.2	5.0	7.4

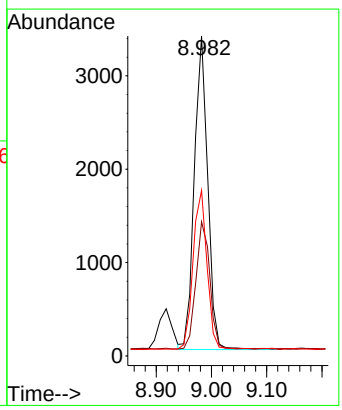


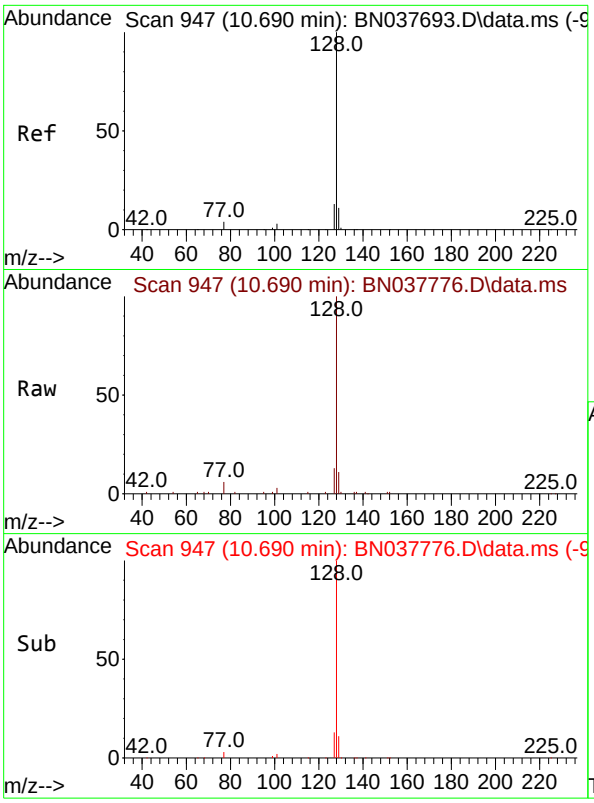


#8
Nitrobenzene-d5
Concen: 0.407 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion: 82 Resp: 5651

Ion	Ratio	Lower	Upper
82	100		
128	42.0	38.3	57.5
54	51.8	41.4	62.2



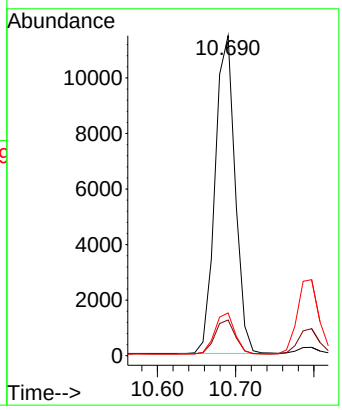


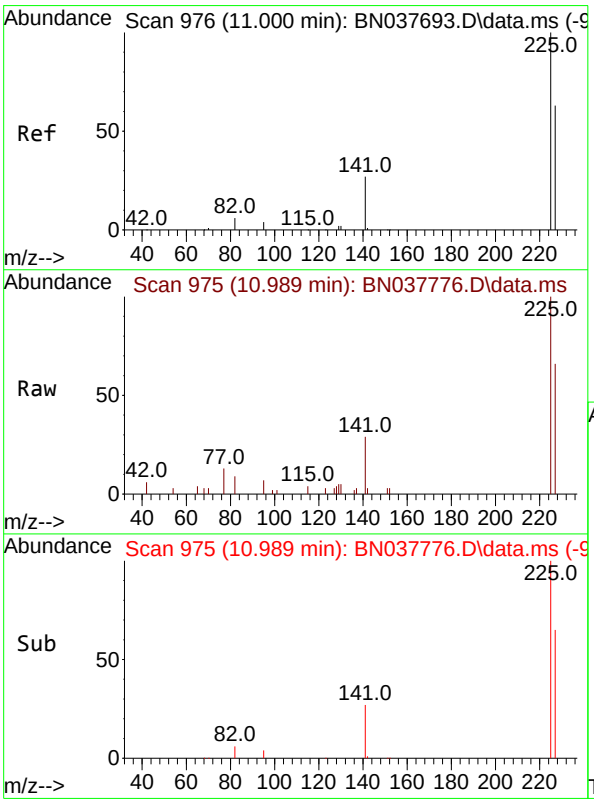
#9
Naphthalene
Concen: 0.391 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 20305

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.1	13.7
127	13.3	10.9	16.3

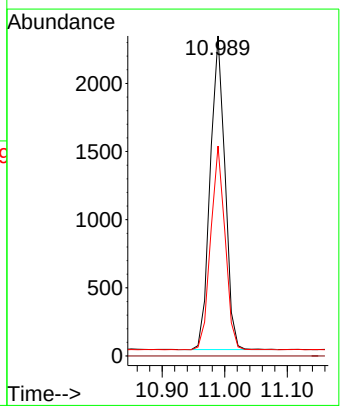


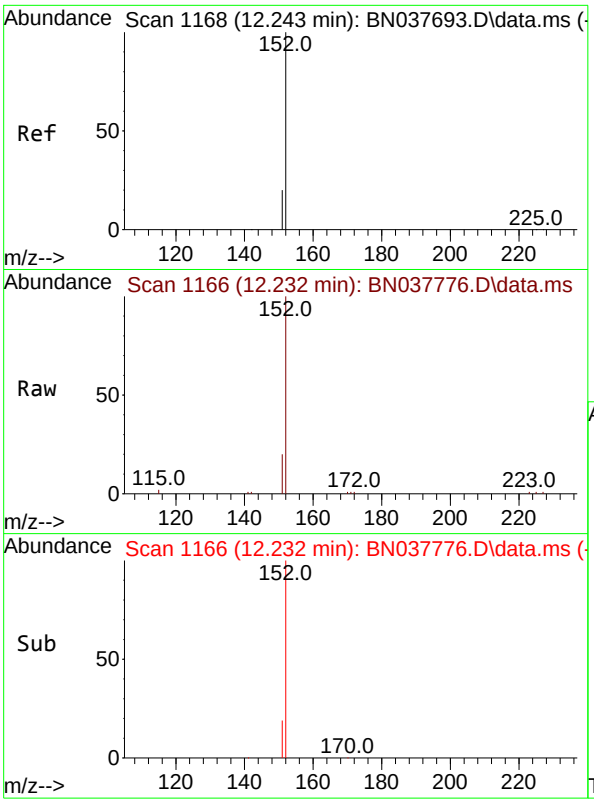


#10
Hexachlorobutadiene
Concen: 0.400 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:225 Resp: 3759

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	50.9	76.3



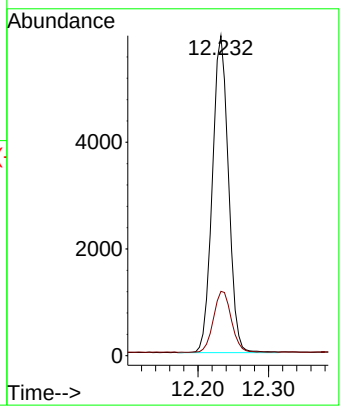


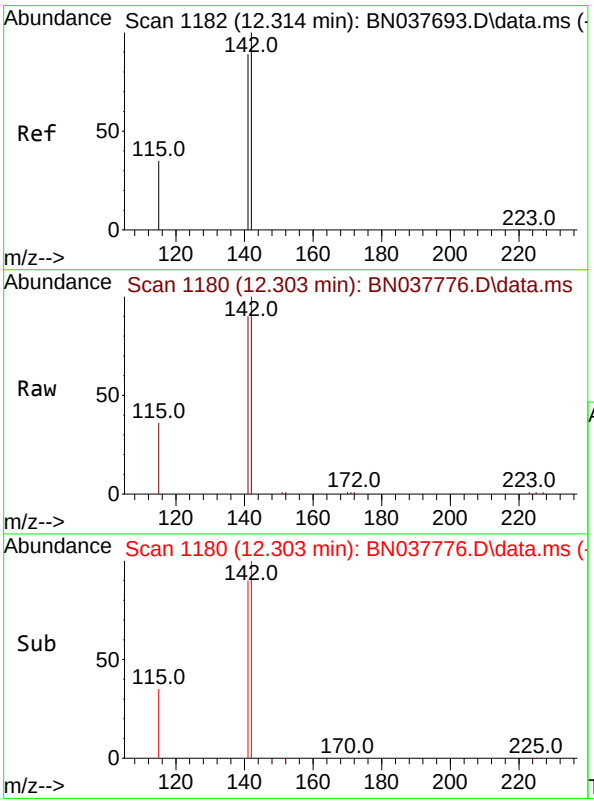
#11
2-Methylnaphthalene-d10
Concen: 0.375 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 9430

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

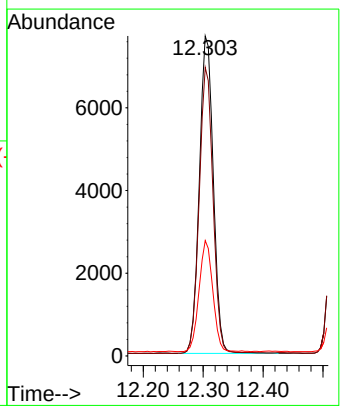


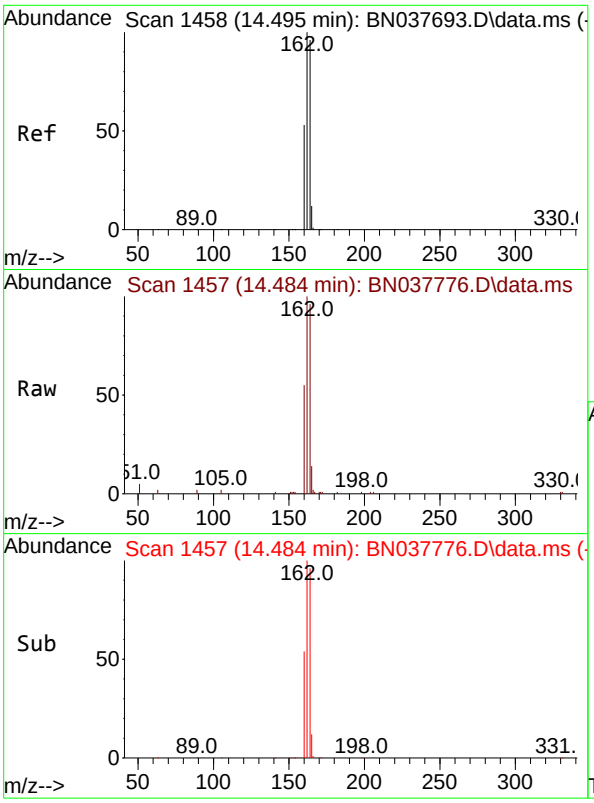


#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:142 Resp: 12427

Ion	Ratio	Lower	Upper
142	100		
141	90.2	71.6	107.4
115	36.1	28.6	43.0



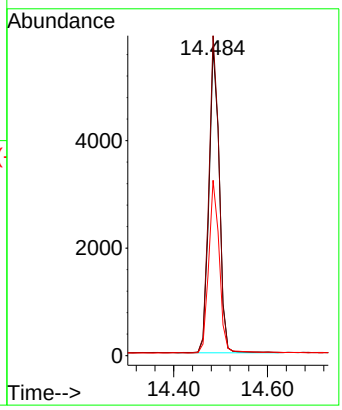


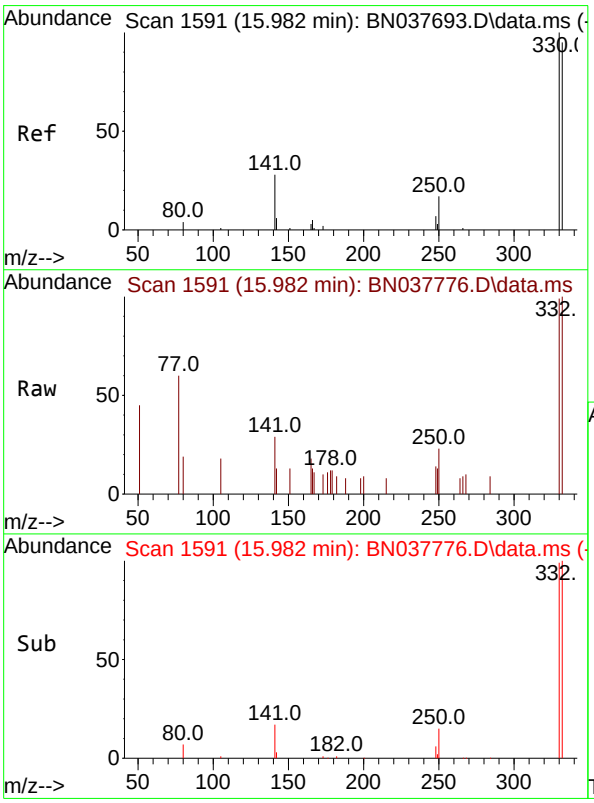
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 8698

Ion	Ratio	Lower	Upper
164	100		
162	103.8	83.1	124.7
160	56.9	44.3	66.5

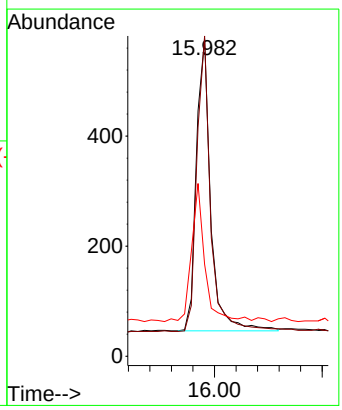


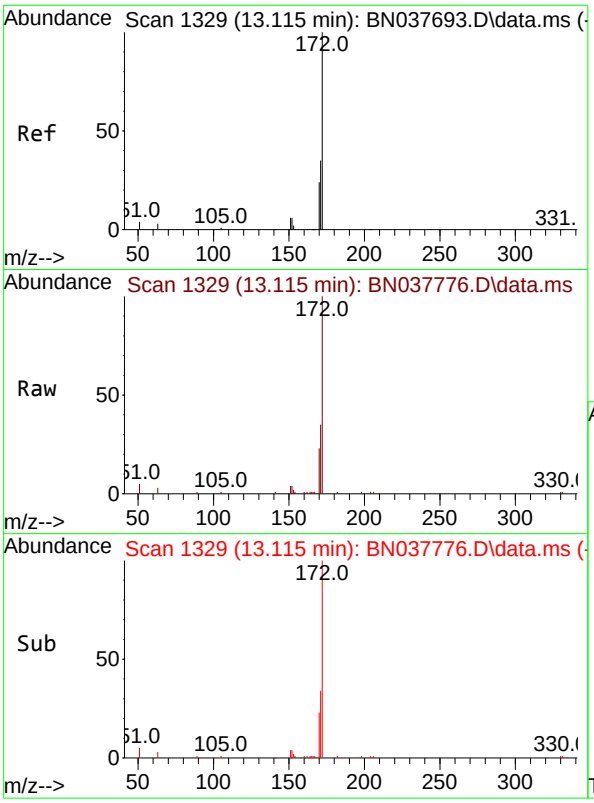


#14
2,4,6-Tribromophenol
Concen: 0.436 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:330 Resp: 988

Ion	Ratio	Lower	Upper
330	100		
332	96.3	75.3	112.9
141	42.6	35.0	52.4



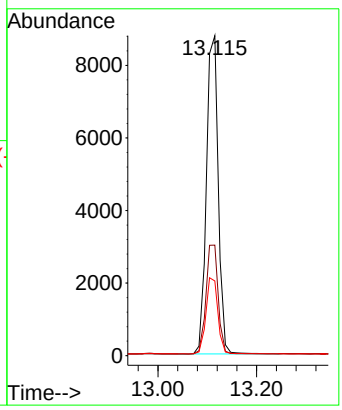


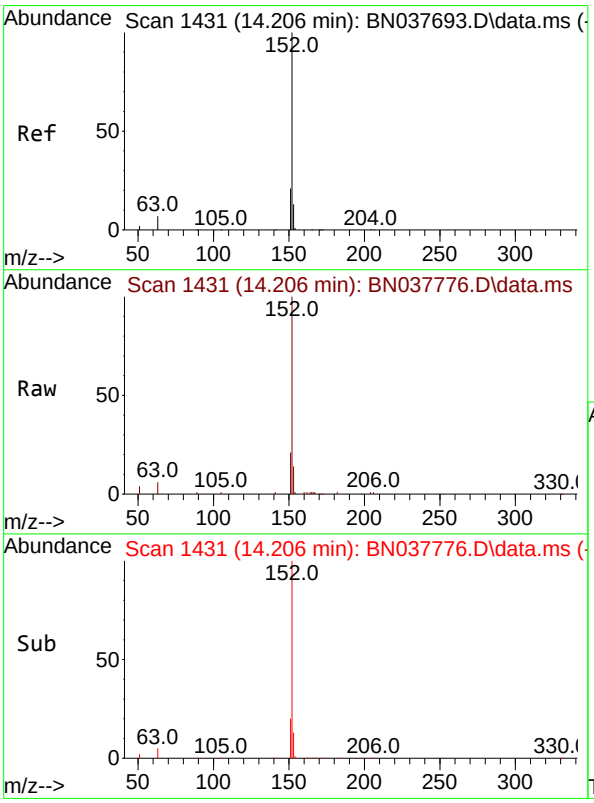
#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 14602

Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.6	43.0
170	23.3	19.8	29.8

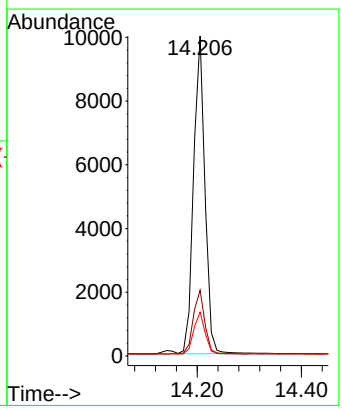


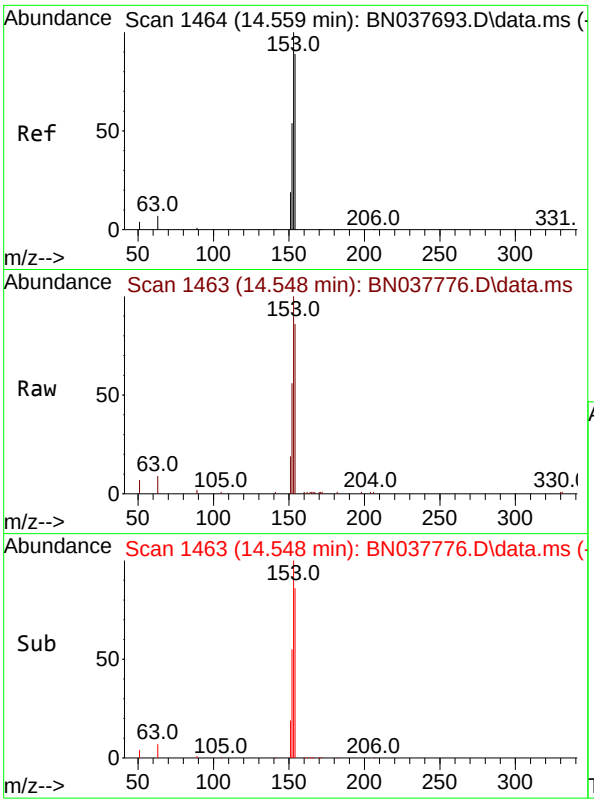


#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:152 Resp: 15171

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.1	10.4	15.6



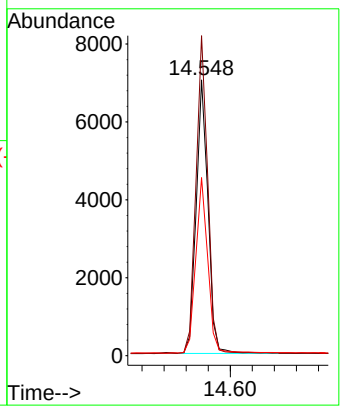


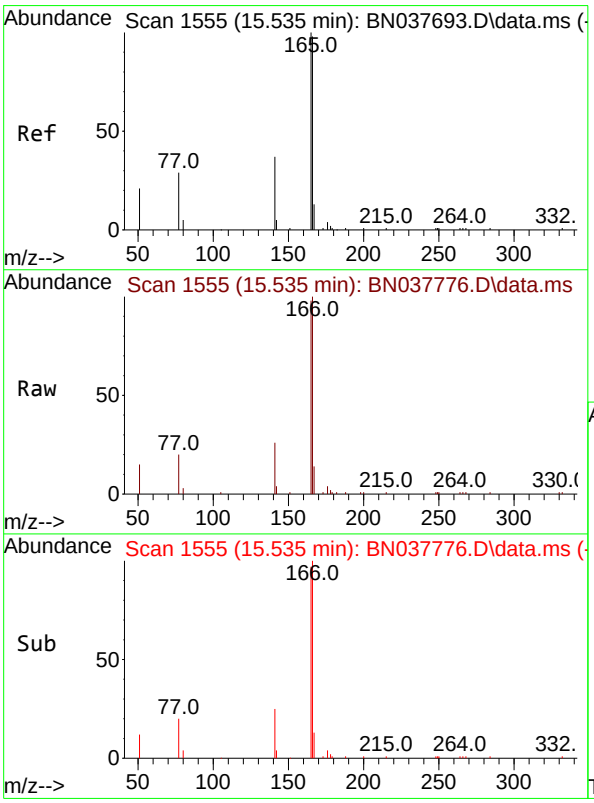
#17
Acenaphthene
Concen: 0.389 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 10490

Ion	Ratio	Lower	Upper
154	100		
153	115.3	89.8	134.8
152	65.9	50.2	75.2

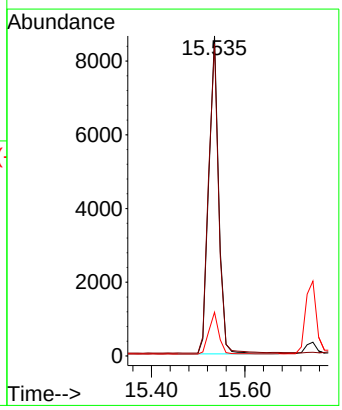


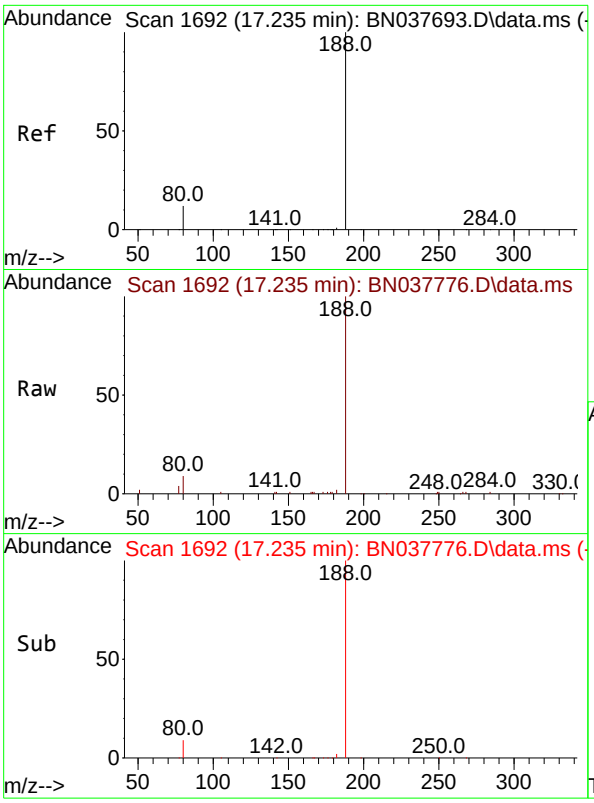


#18
Fluorene
Concen: 0.372 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:166 Resp: 12152

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.6	119.4
167	13.5	10.6	16.0



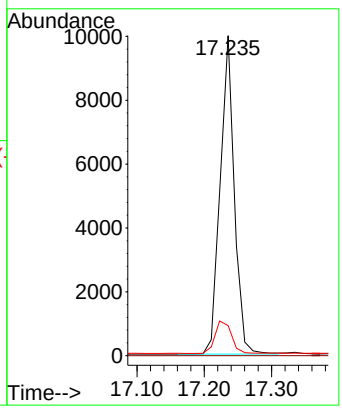


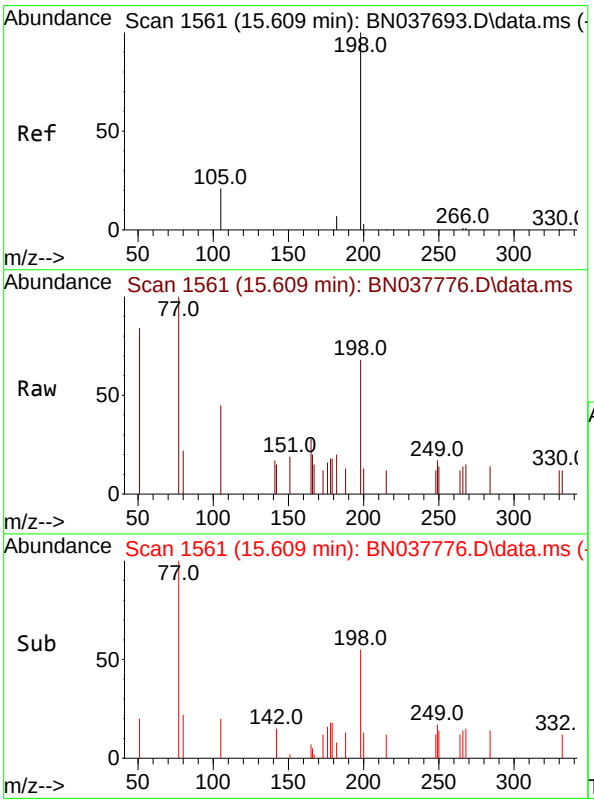
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 14526

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.4	10.6	15.8#

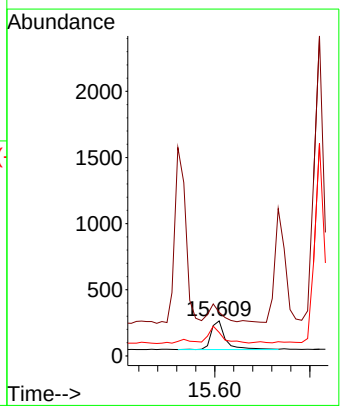


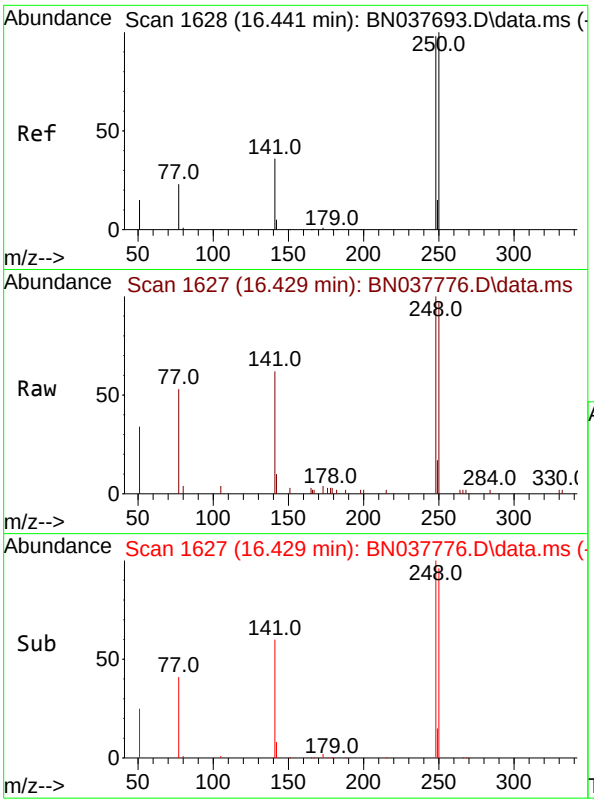


#20
4,6-Dinitro-2-methylphenol
Concen: 0.337 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:198 Resp: 454

Ion	Ratio	Lower	Upper
198	100		
51	125.0	95.1	142.7
105	67.0	53.8	80.6



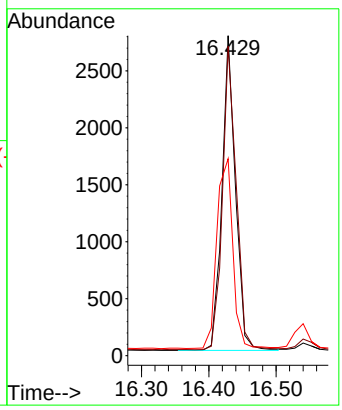


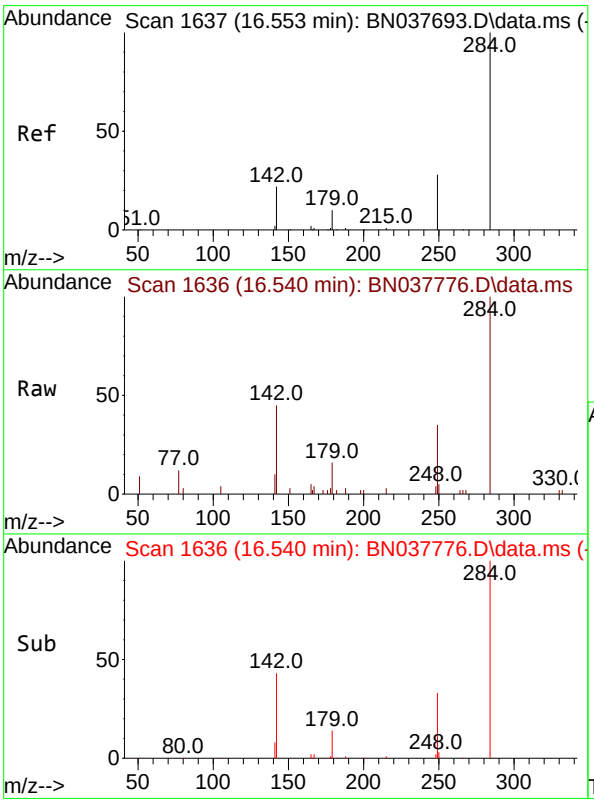
#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 3832

Ion	Ratio	Lower	Upper
248	100		
250	96.7	81.5	122.3
141	61.6	30.8	46.2#

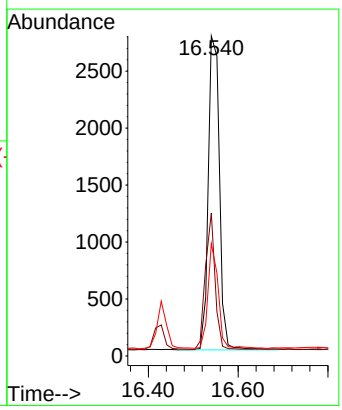


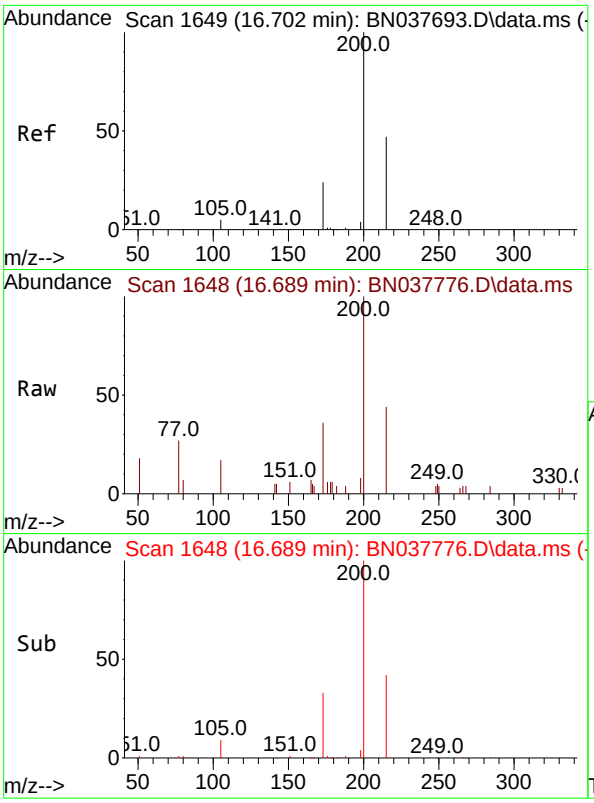


#22
Hexachlorobenzene
Concen: 0.435 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:284 Resp: 4737

Ion	Ratio	Lower	Upper
284	100		
142	37.4	30.9	46.3
249	31.0	24.8	37.2



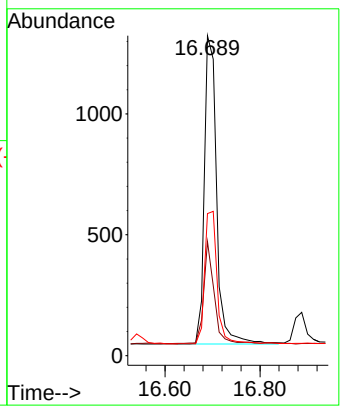


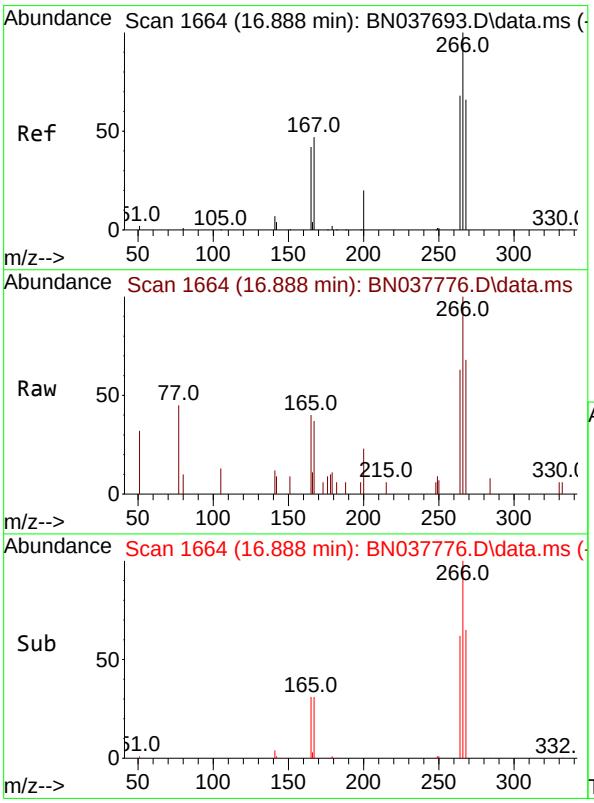
#23
Atrazine
Concen: 0.382 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 2300

Ion	Ratio	Lower	Upper
200	100		
173	35.6	21.4	32.2#
215	44.4	39.2	58.8

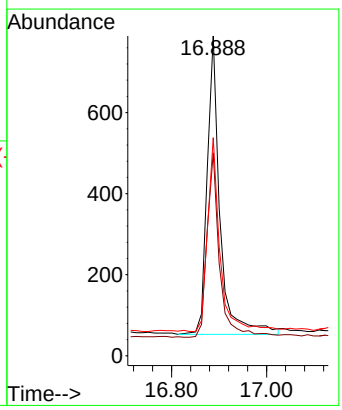


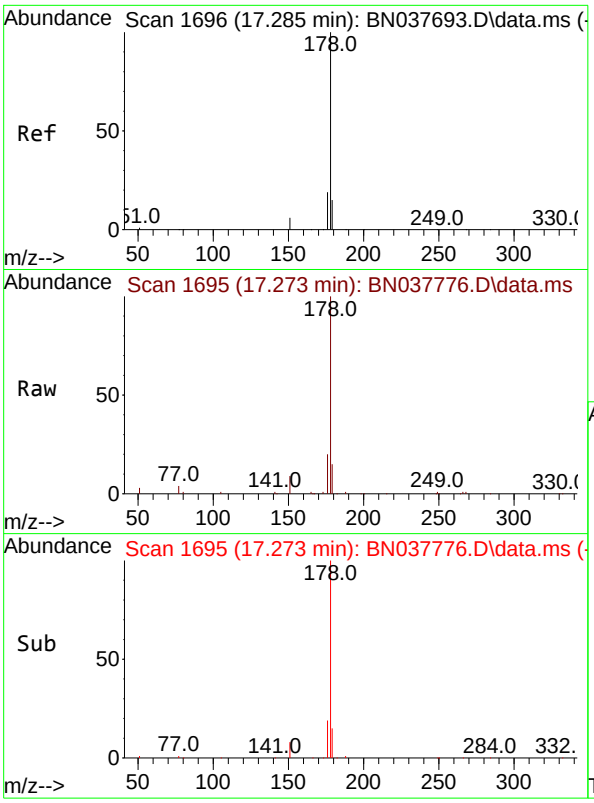


#24
Pentachlorophenol
Concen: 0.438 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:266 Resp: 1384

Ion	Ratio	Lower	Upper
266	100		
264	60.4	51.6	77.4
268	63.2	53.2	79.8



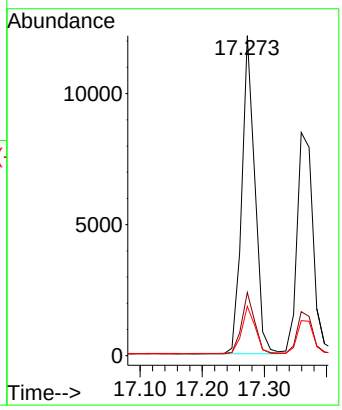


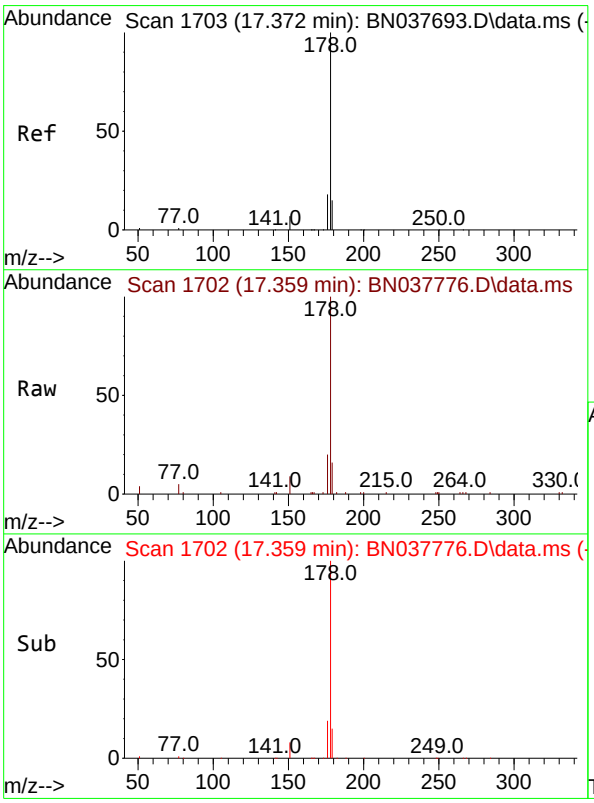
#25
Phenanthrene
Concen: 0.388 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 17751

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.5	12.2	18.2

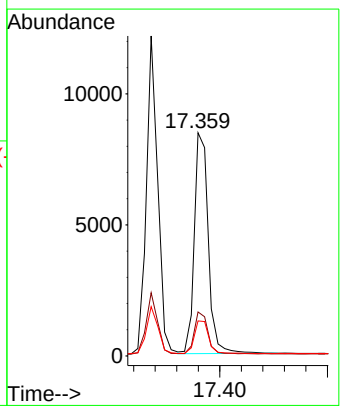


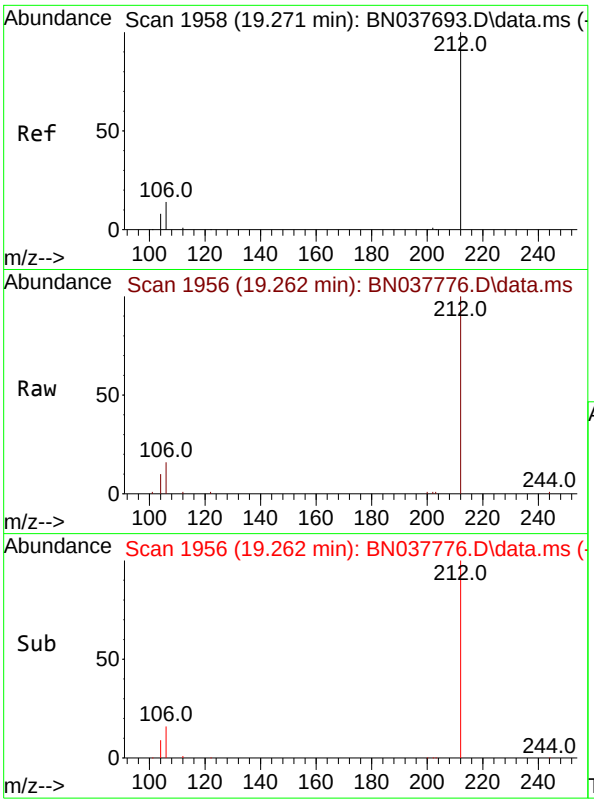


#26
Anthracene
Concen: 0.375 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:178 Resp: 15208

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	22.0
179	15.4	12.2	18.4



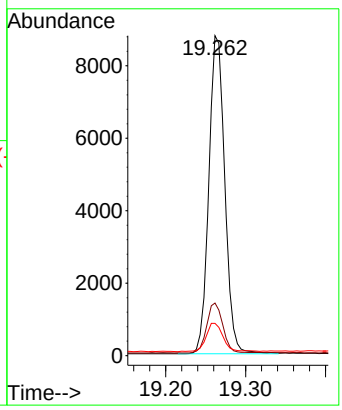


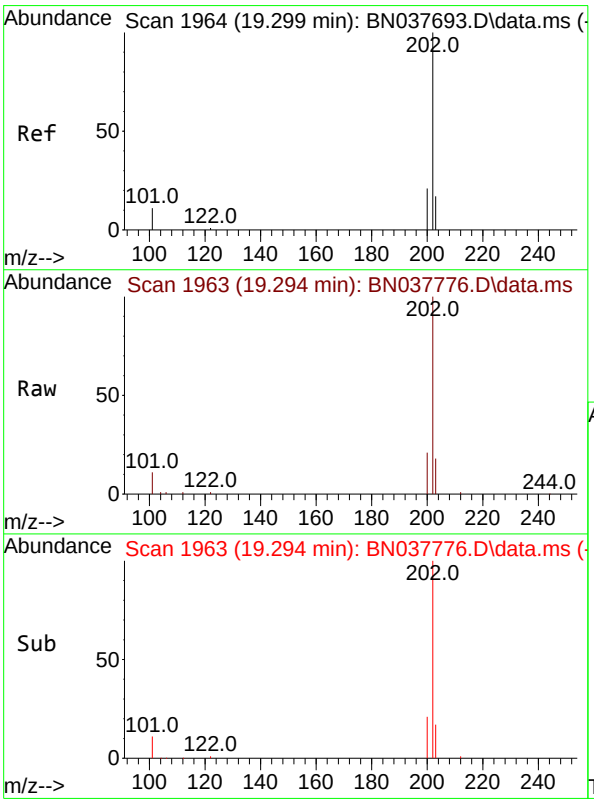
#27
Fluoranthene-d10
Concen: 0.334 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 12188

Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.2	18.2
104	9.7	6.9	10.3

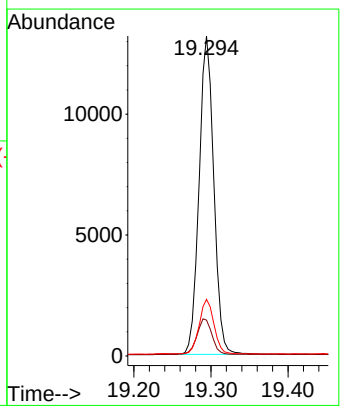


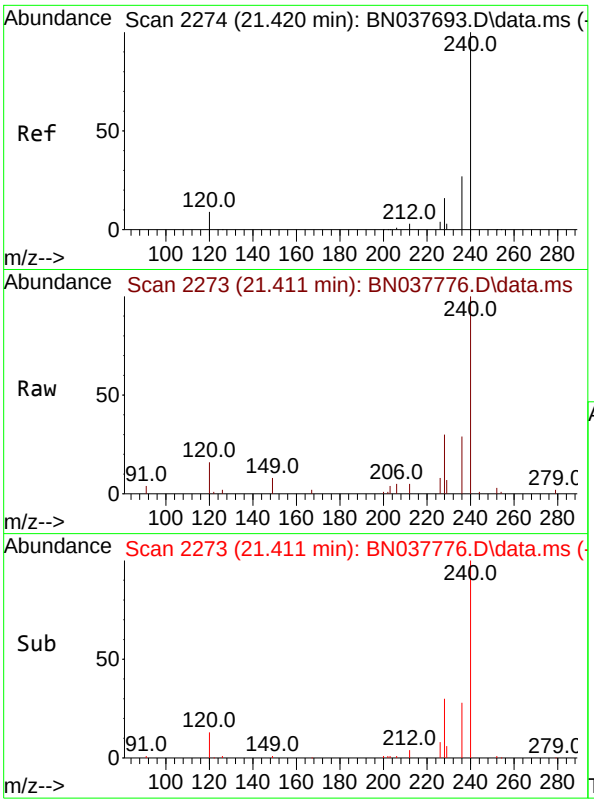


#28
Fluoranthene
Concen: 0.348 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:202 Resp: 17450

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	17.1	13.7	20.5



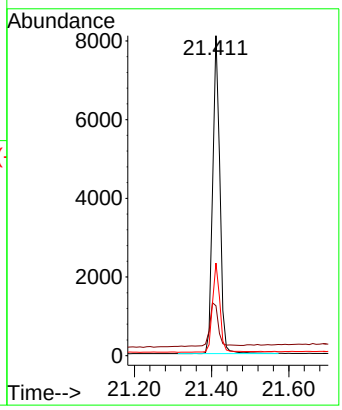


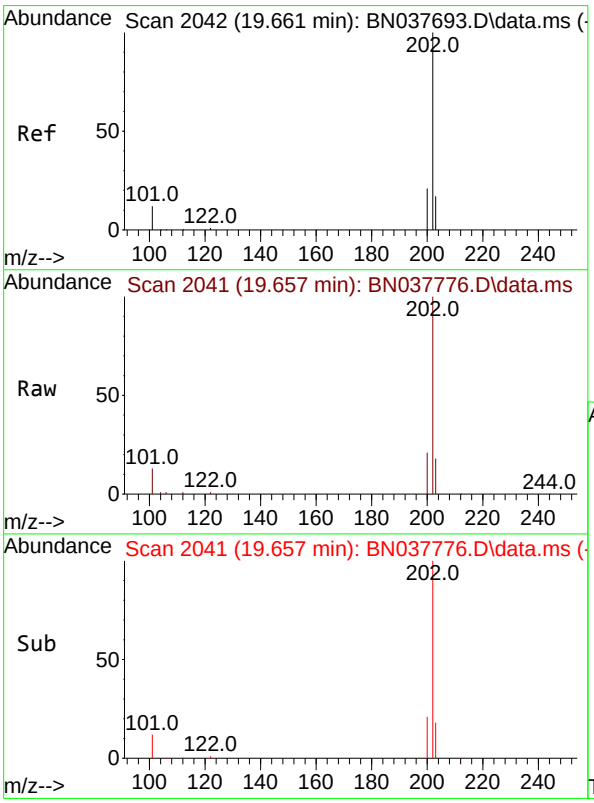
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 10438

Ion	Ratio	Lower	Upper
240	100		
120	15.6	9.2	13.8#
236	28.9	22.6	33.8

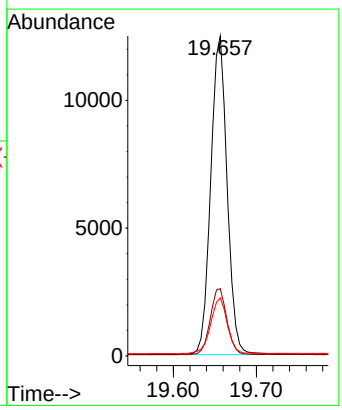


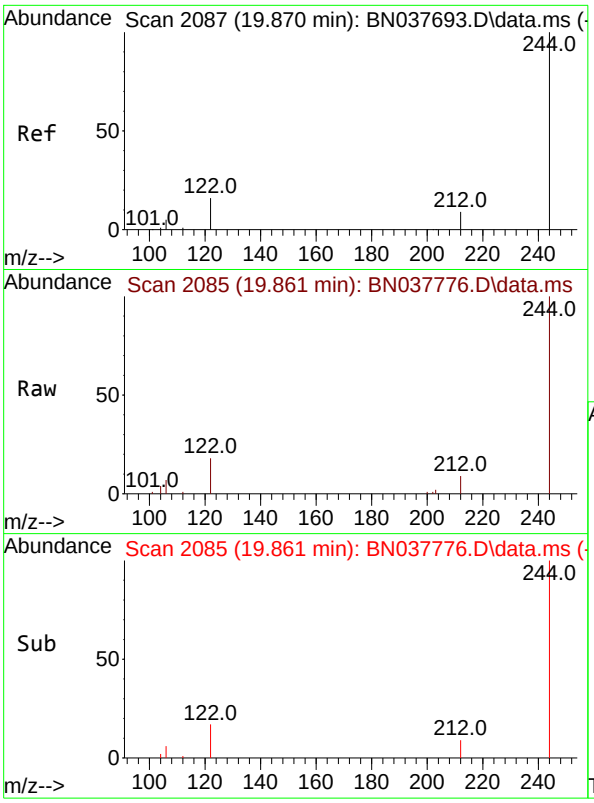


#30
Pyrene
Concen: 0.418 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:202 Resp: 17087

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.9	14.3	21.5



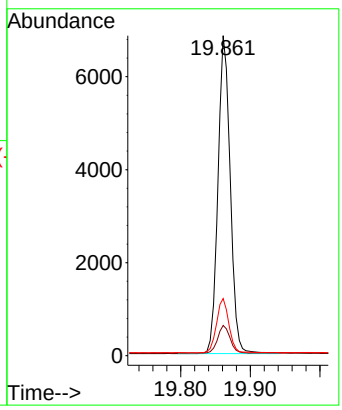


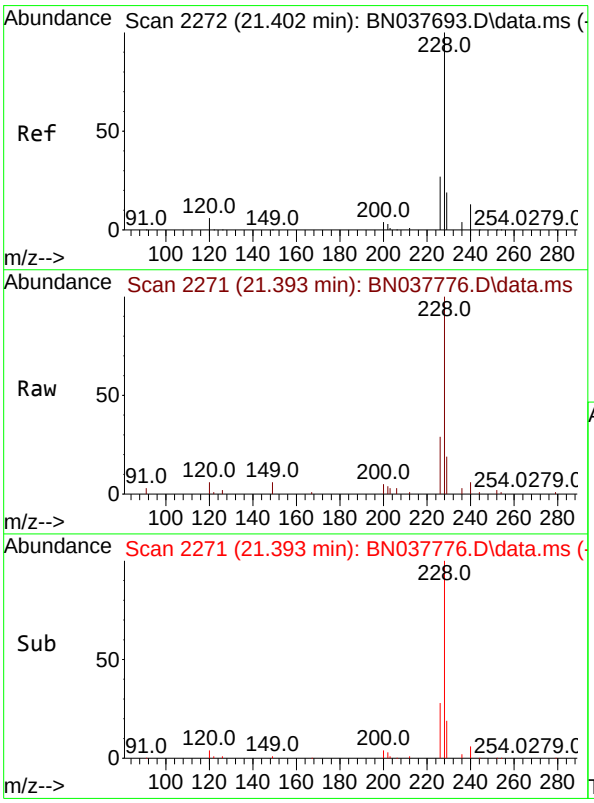
#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 8356

Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.5	11.3
122	17.8	13.2	19.8

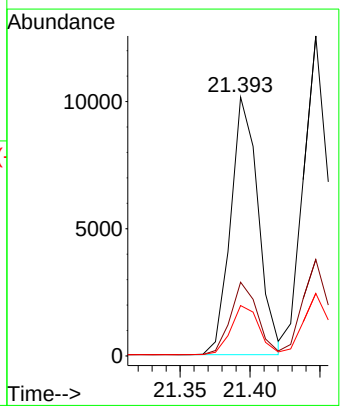


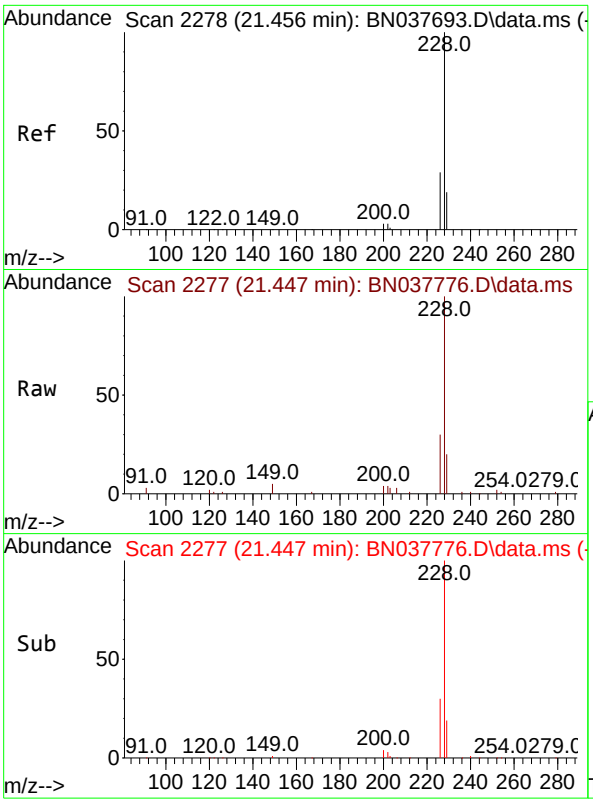


#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:228 Resp: 13864

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.2	33.2
229	19.4	15.8	23.6



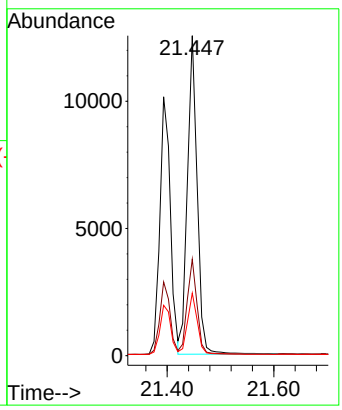


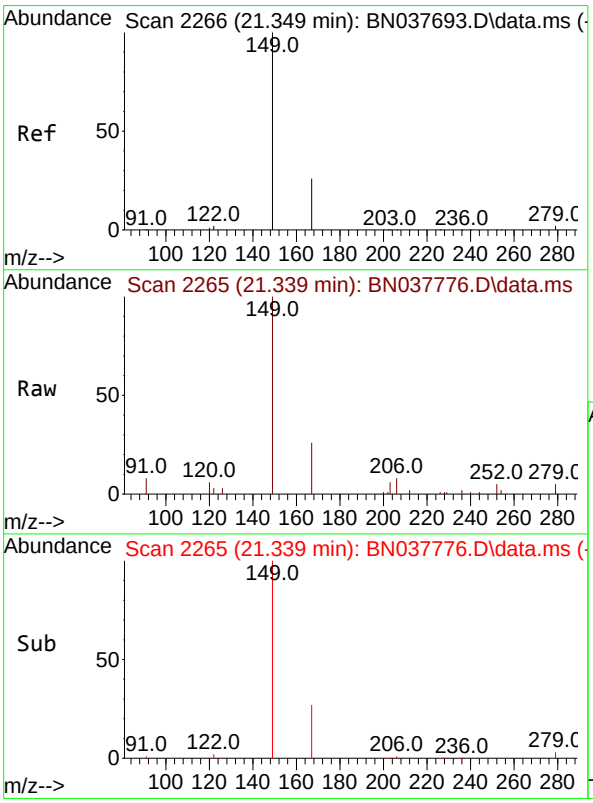
#33
Chrysene
Concen: 0.408 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 15945

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.5	35.3
229	19.6	15.9	23.9

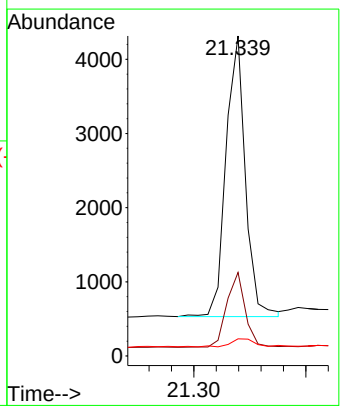


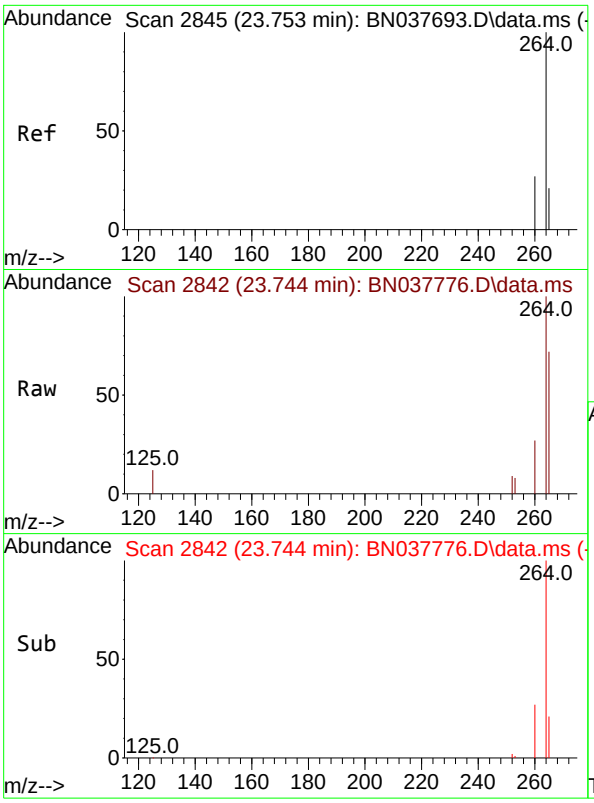


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.422 ng
RT: 21.339 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:149 Resp: 4553

Ion	Ratio	Lower	Upper
149	100		
167	26.0	20.8	31.2
279	3.6	3.3	4.9



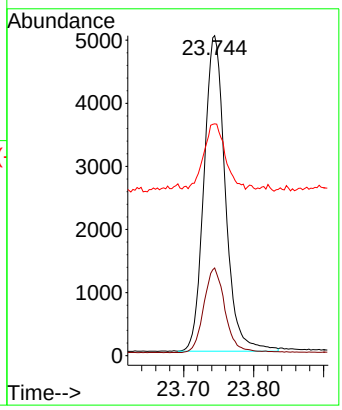


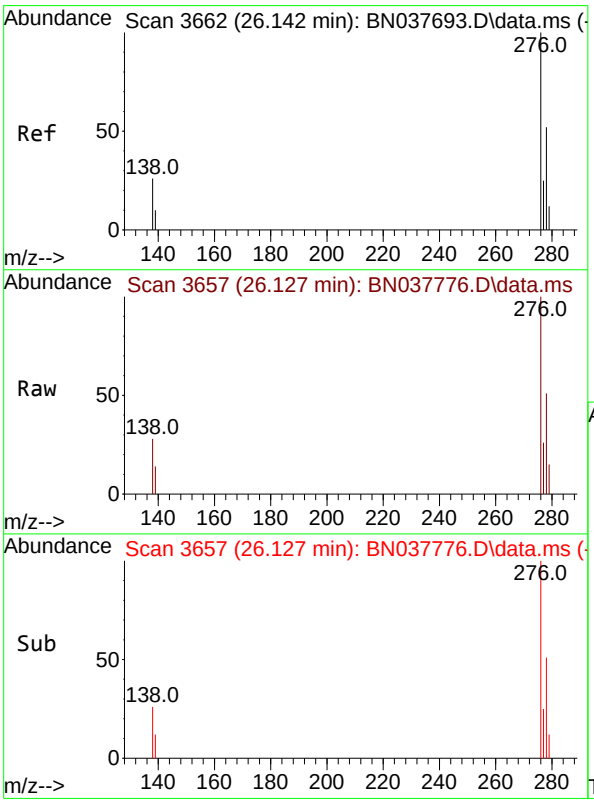
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 10600

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.8	32.8
265	72.4	39.4	59.2#

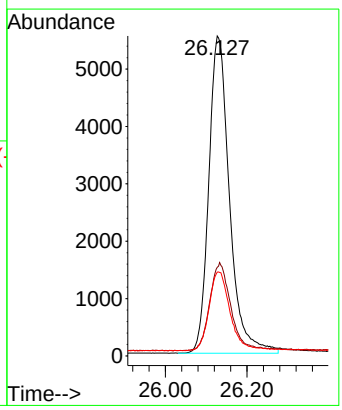


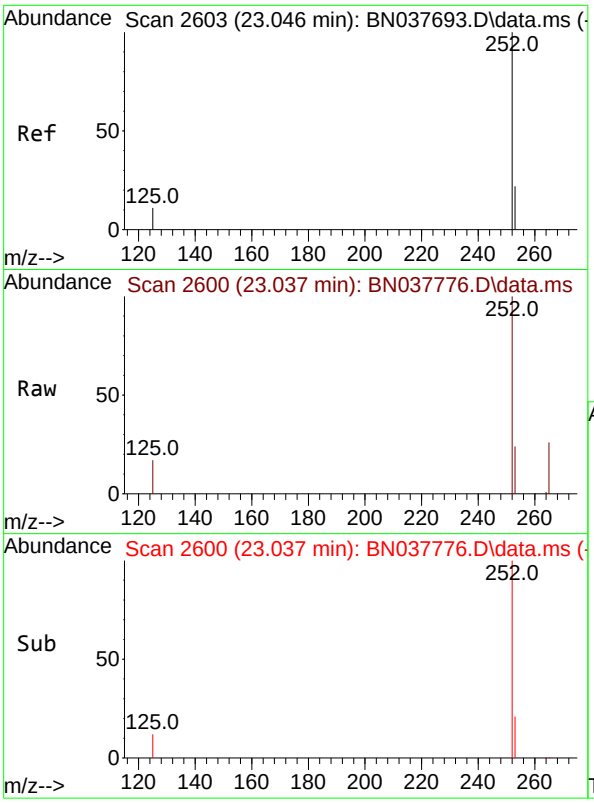


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.437 ng
RT: 26.127 min Scan# 3657
Delta R.T. -0.015 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:276 Resp: 19472

Ion	Ratio	Lower	Upper
276	100		
138	27.6	21.9	32.9
277	25.3	20.1	30.1



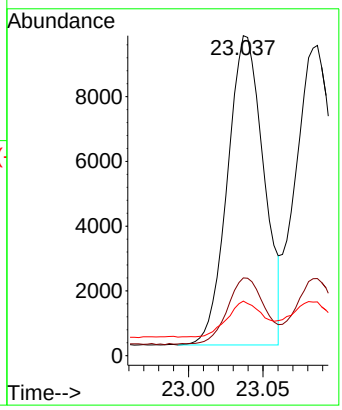


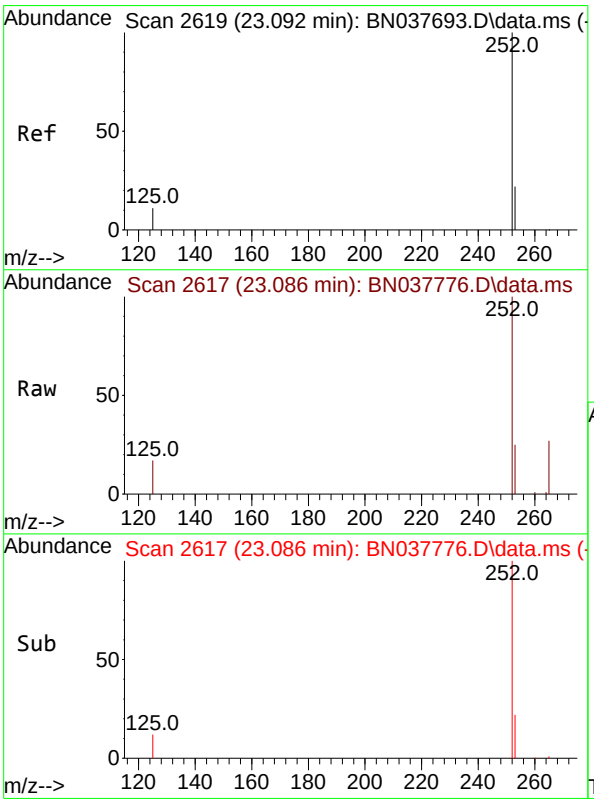
#37
Benzo(b)fluoranthene
Concen: 0.387 ng
RT: 23.037 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 16161

Ion	Ratio	Lower	Upper
252	100		
253	24.3	19.4	29.2
125	17.1	11.2	16.8#

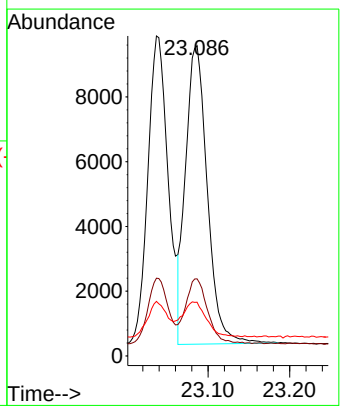


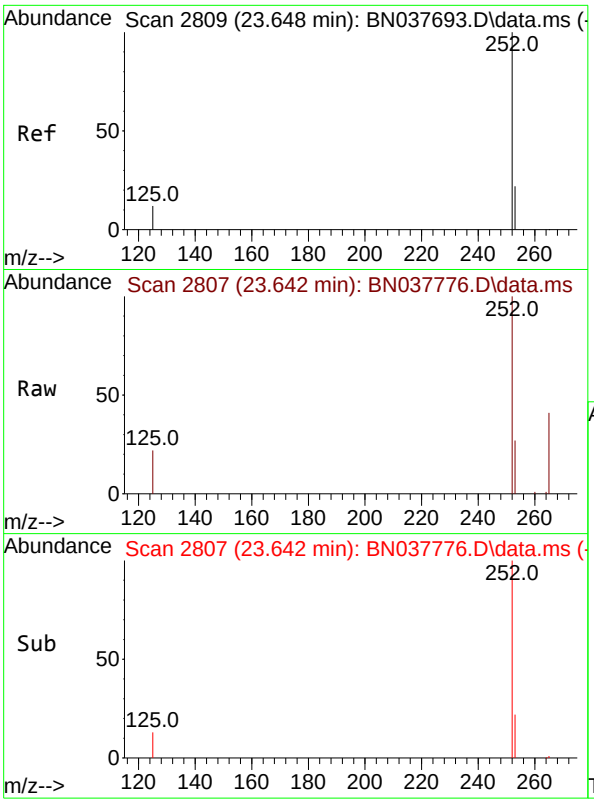


#38
Benzo(k)fluoranthene
Concen: 0.402 ng
RT: 23.086 min Scan# 2617
Delta R.T. -0.006 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:252 Resp: 17089

Ion	Ratio	Lower	Upper
252	100		
253	24.9	19.4	29.0
125	17.3	11.6	17.4



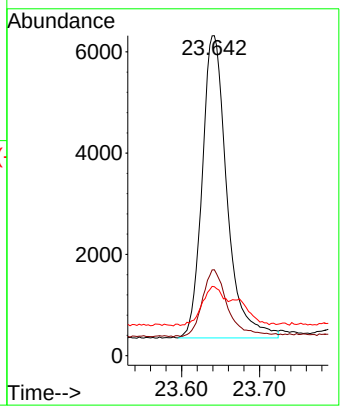


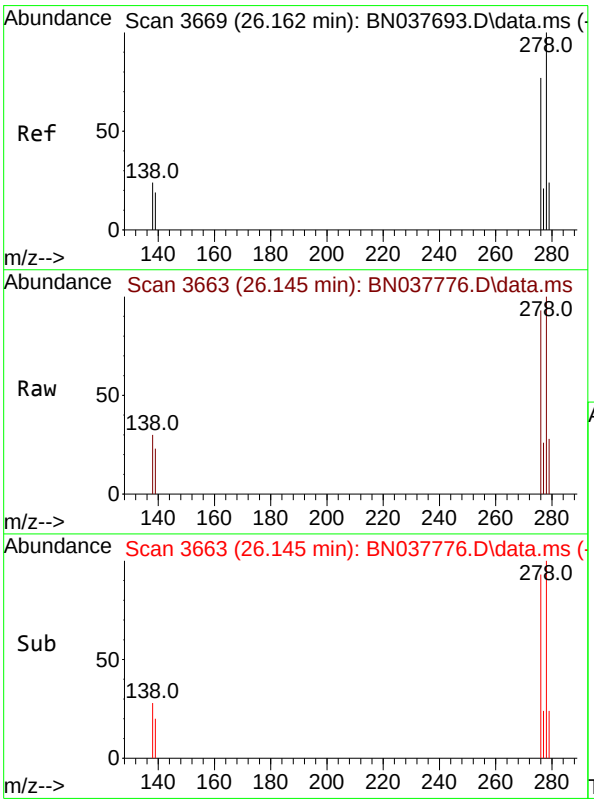
#39
Benzo(a)pyrene
Concen: 0.394 ng
RT: 23.642 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 13152

Ion	Ratio	Lower	Upper
252	100		
253	26.9	20.8	31.2
125	21.6	13.9	20.9#

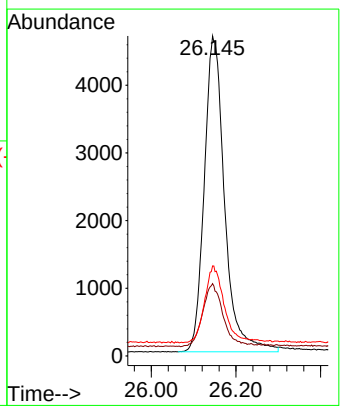


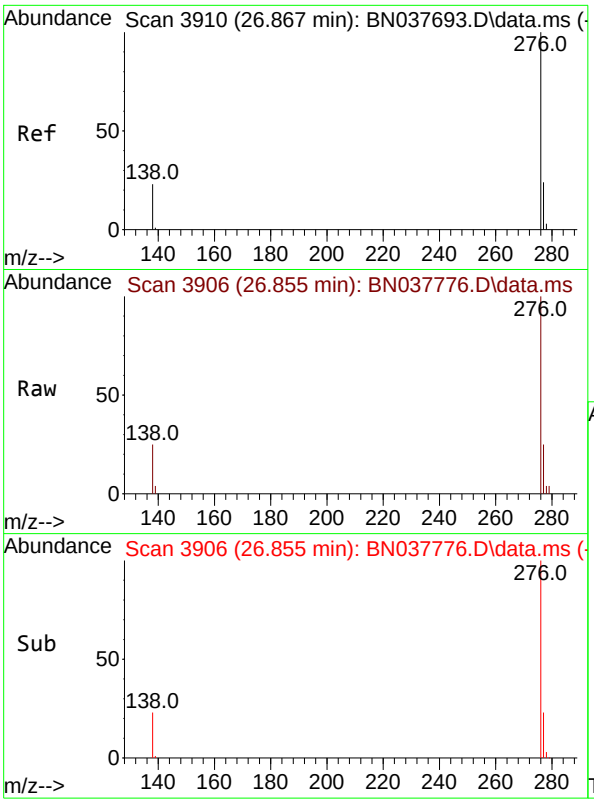


#40
Dibenzo(a,h)anthracene
Concen: 0.436 ng
RT: 26.145 min Scan# 3663
Delta R.T. -0.018 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:278 Resp: 15512

Ion	Ratio	Lower	Upper
278	100		
139	22.6	17.8	26.6
279	28.2	22.0	33.0



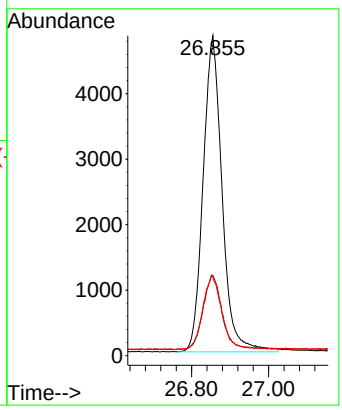


#41
Benzo(g,h,i)perylene
Concen: 0.413 ng
RT: 26.855 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 16486

Ion	Ratio	Lower	Upper
276	100		
277	25.1	20.6	31.0
138	24.5	20.2	30.2



Sample Results: **BN037776.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037776.D
Acq On : 18 Sep 2025 14:32
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	143	0.00
2		1,4-Dioxane	0.417	0.428	-2.6	145	0.00
3		n-Nitrosodimethylamine	0.544	0.513	5.7	130	0.00
4	S	2-Fluorophenol	0.918	0.890	3.1	143	0.00
5	S	Phenol-d6	1.191	1.130	5.1	140	0.00
6		bis(2-Chloroethyl)ether	1.064	1.059	0.5	141	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	143	-0.01
8	S	Nitrobenzene-d5	0.293	0.298	-1.7	150	-0.01
9		Naphthalene	1.093	1.070	2.1	143	0.00
10		Hexachlorobutadiene	0.198	0.198	0.0	144	-0.01
11	SURR	2-Methylnaphthalene-d10	0.530	0.497	6.2	143	-0.01
12		2-Methylnaphthalene	0.676	0.655	3.1	142	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	140	-0.01
14	S	2,4,6-Tribromophenol	0.104	0.114	-9.6	158#	0.00
15	S	2-Fluorobiphenyl	1.673	1.679	-0.4	143	0.00
16		Acenaphthylene	1.834	1.744	4.9	137	0.00
17		Acenaphthene	1.240	1.206	2.7	139	-0.01
18		Fluorene	1.502	1.397	7.0	136	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	129	0.00
20		4,6-Dinitro-2-methylphenol	0.037	0.031	16.2	122	0.00
21		4-Bromophenyl-phenylether	0.261	0.264	-1.1	136	-0.01
22		Hexachlorobenzene	0.300	0.326	-8.7	143	-0.01
23		Atrazine	0.166	0.158	4.8	135	-0.01
24		Pentachlorophenol	0.087	0.095	-9.2	165#	0.00
25		Phenanthrene	1.259	1.222	2.9	129	-0.01
26		Anthracene	1.116	1.047	6.2	126	-0.01
27	SURR	Fluoranthene-d10	1.004	0.839	16.4	116	0.00
28		Fluoranthene	1.381	1.201	13.0	118	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	111	0.00
30		Pyrene	1.566	1.637	-4.5	117	0.00
31	S	Terphenyl-d14	0.812	0.801	1.4	111	0.00
32		Benzo(a)anthracene	1.395	1.328	4.8	110	0.00
33		Chrysene	1.496	1.528	-2.1	114	0.00
34		Bis(2-ethylhexyl)phthalate	0.414	0.436	-5.3	129	0.00
35	I	Perylene-d12	1.000	1.000	0.0	118	0.00
36		Indeno(1,2,3-cd)pyrene	1.681	1.837	-9.3	141	-0.01
37		Benzo(b)fluoranthene	1.575	1.525	3.2	116	0.00
38		Benzo(k)fluoranthene	1.606	1.612	-0.4	125	0.00
39	C	Benzo(a)pyrene	1.261	1.241	1.6	122	0.00
40		Dibenzo(a,h)anthracene	1.342	1.463	-9.0	143	-0.02
41		Benzo(g,h,i)perylene	1.506	1.555	-3.3	127	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN037776.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037776.D
Acq On : 18 Sep 2025 14:32
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	143	0.00
2		1,4-Dioxane	0.400	0.411	-2.7	145	0.00
3		n-Nitrosodimethylamine	0.400	0.377	5.8	130	0.00
4	S	2-Fluorophenol	0.400	0.388	3.0	143	0.00
5	S	Phenol-d6	0.400	0.380	5.0	140	0.00
6		bis(2-Chloroethyl)ether	0.400	0.398	0.5	141	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	143	-0.01
8	S	Nitrobenzene-d5	0.400	0.407	-1.7	150	-0.01
9		Naphthalene	0.400	0.391	2.3	143	0.00
10		Hexachlorobutadiene	0.400	0.400	0.0	144	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.375	6.3	143	-0.01
12		2-Methylnaphthalene	0.400	0.387	3.3	142	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	140	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.436	-9.0	158	0.00
15	S	2-Fluorobiphenyl	0.400	0.401	-0.3	143	0.00
16		Acenaphthylene	0.400	0.380	5.0	137	0.00
17		Acenaphthene	0.400	0.389	2.8	139	-0.01
18		Fluorene	0.400	0.372	7.0	136	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	129	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.337	15.8	122	0.00
21		4-Bromophenyl-phenylether	0.400	0.405	-1.3	136	-0.01
22		Hexachlorobenzene	0.400	0.435	-8.7	143	-0.01
23		Atrazine	0.400	0.382	4.5	135	-0.01
24		Pentachlorophenol	0.400	0.438	-9.5	165	0.00
25		Phenanthrene	0.400	0.388	3.0	129	-0.01
26		Anthracene	0.400	0.375	6.3	126	-0.01
27	SURR	Fluoranthene-d10	0.400	0.334	16.5	116	0.00
28		Fluoranthene	0.400	0.348	13.0	118	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	111	0.00
30		Pyrene	0.400	0.418	-4.5	117	0.00
31	S	Terphenyl-d14	0.400	0.394	1.5	111	0.00
32		Benzo(a)anthracene	0.400	0.381	4.8	110	0.00
33		Chrysene	0.400	0.408	-2.0	114	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.422	-5.5	129	0.00
35	I	Perylene-d12	0.400	0.400	0.0	118	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.437	-9.2	141	-0.01
37		Benzo(b)fluoranthene	0.400	0.387	3.3	116	0.00
38		Benzo(k)fluoranthene	0.400	0.402	-0.5	125	0.00
39	C	Benzo(a)pyrene	0.400	0.394	1.5	122	0.00
40		Dibenzo(a,h)anthracene	0.400	0.436	-9.0	143	-0.02
41		Benzo(g,h,i)perylene	0.400	0.413	-3.2	127	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	BNA_N	Calibration Date/Time:	09/19/2025 00:52
Lab File ID:	BN037793.D	Init. Calib. Date(s):	09/11/2025 09/11/2025
EPA Sample No.:	SSTDCCC0.4EC	Init. Calib. Time(s):	09:56 13:33

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.496		-6.4	50.0
Fluoranthene-d10	1.004	0.954		-5.0	50.0
2-Fluorophenol	0.918	0.923		0.5	50.0
Phenol-d6	1.191	1.148		-3.6	50.0
Nitrobenzene-d5	0.293	0.295		0.7	50.0
2-Fluorobiphenyl	1.673	1.632		-2.5	50.0
2,4,6-Tribromophenol	0.104	0.127		22.1	50.0
Terphenyl-d14	0.812	0.785		-3.3	50.0
1,4-Dioxane	0.417	0.436		4.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037793.D
Acq On : 19 Sep 2025 00:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 19 04:13:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

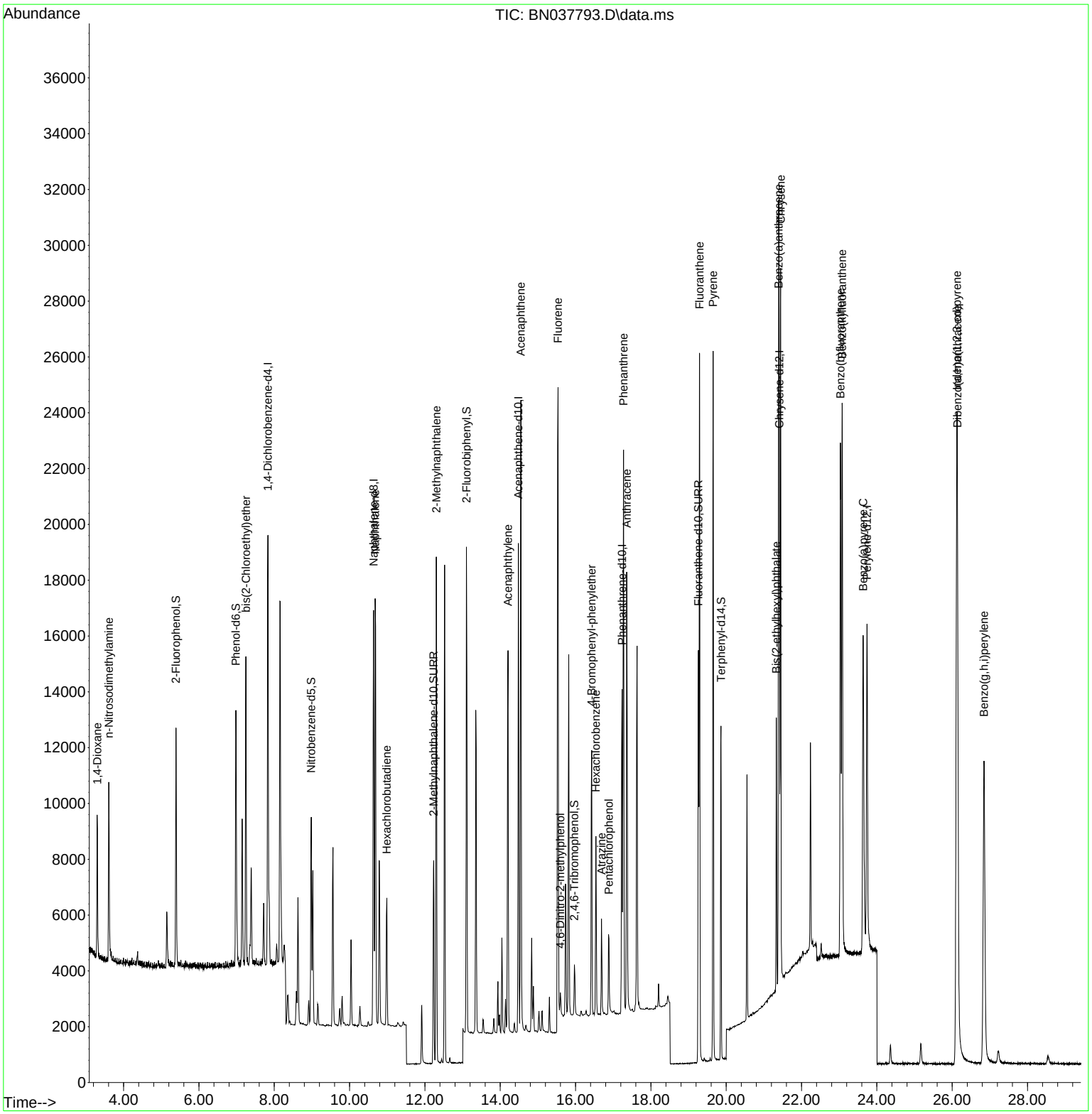
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.833	152	7441	0.400	ng		0.00
7) Naphthalene-d8	10.637	136	19492	0.400	ng		-0.01
13) Acenaphthene-d10	14.484	164	9091	0.400	ng		-0.01
19) Phenanthrene-d10	17.235	188	16806	0.400	ng		# 0.00
29) Chrysene-d12	21.411	240	15128	0.400	ng		0.00
35) Perylene-d12	23.739	264	15864	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.392	112	6868	0.402	ng		0.00
5) Phenol-d6	6.981	99	8539	0.386	ng		0.00
8) Nitrobenzene-d5	8.982	82	5756	0.404	ng		-0.01
11) 2-Methylnaphthalene-d10	12.233	152	9662	0.374	ng		-0.01
14) 2,4,6-Tribromophenol	15.969	330	1156	0.488	ng		-0.01
15) 2-Fluorobiphenyl	13.105	172	14833	0.390	ng		-0.01
27) Fluoranthene-d10	19.262	212	16028	0.380	ng		0.00
31) Terphenyl-d14	19.861	244	11883	0.387	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.304	88	3241	0.418	ng		98
3) n-Nitrosodimethylamine	3.608	42	3766	0.372	ng		88
6) bis(2-Chloroethyl)ether	7.248	93	7648	0.386	ng		100
9) Naphthalene	10.680	128	20919	0.393	ng		100
10) Hexachlorobutadiene	10.989	225	3750	0.389	ng	#	100
12) 2-Methylnaphthalene	12.304	142	12695	0.385	ng		99
16) Acenaphthylene	14.206	152	15704	0.377	ng		99
17) Acenaphthene	14.548	154	10816	0.384	ng		98
18) Fluorene	15.535	166	13166	0.386	ng		98
20) 4,6-Dinitro-2-methylph...	15.597	198	563	0.362	ng	#	81
21) 4-Bromophenyl-phenylether	16.429	248	4194	0.383	ng	#	94
22) Hexachlorobenzene	16.540	284	5004	0.397	ng		98
23) Atrazine	16.689	200	2701	0.387	ng		95
24) Pentachlorophenol	16.888	266	1719	0.470	ng		99
25) Phenanthrene	17.273	178	20559	0.389	ng		100
26) Anthracene	17.360	178	17722	0.378	ng		100
28) Fluoranthene	19.294	202	22839	0.394	ng		100
30) Pyrene	19.652	202	22743	0.384	ng		100
32) Benzo(a)anthracene	21.393	228	20290	0.385	ng		100
33) Chrysene	21.447	228	22567	0.399	ng		100
34) Bis(2-ethylhexyl)phtha...	21.331	149	8520	0.545	ng		99
36) Indeno(1,2,3-cd)pyrene	26.124	276	31159	0.467	ng		99
37) Benzo(b)fluoranthene	23.034	252	24537	0.393	ng		99
38) Benzo(k)fluoranthene	23.078	252	26227	0.412	ng		99
39) Benzo(a)pyrene	23.636	252	19199	0.384	ng		98
40) Dibenzo(a,h)anthracene	26.139	278	24445	0.459	ng		98
41) Benzo(g,h,i)perylene	26.846	276	24646	0.413	ng		97

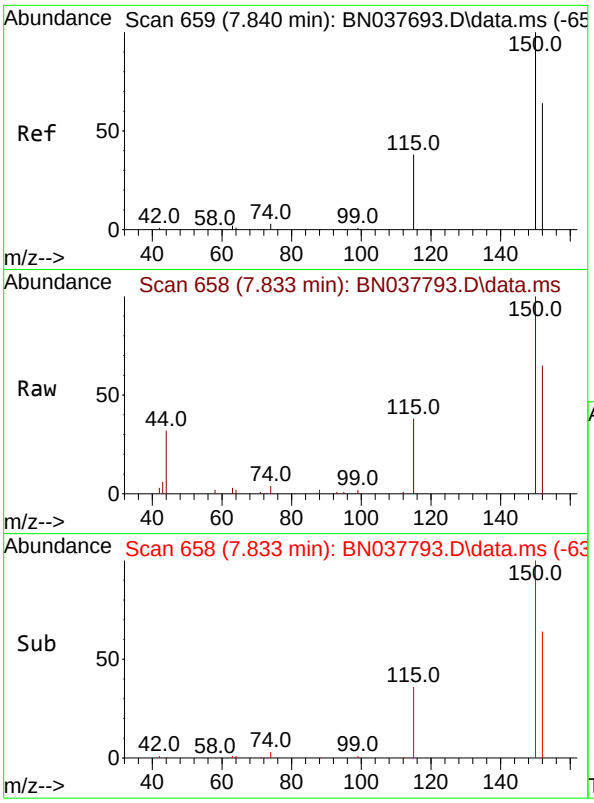
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037793.D
Acq On : 19 Sep 2025 00:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 19 04:13:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



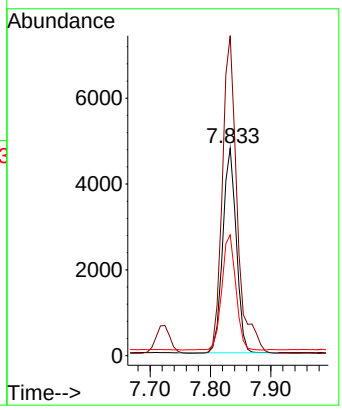


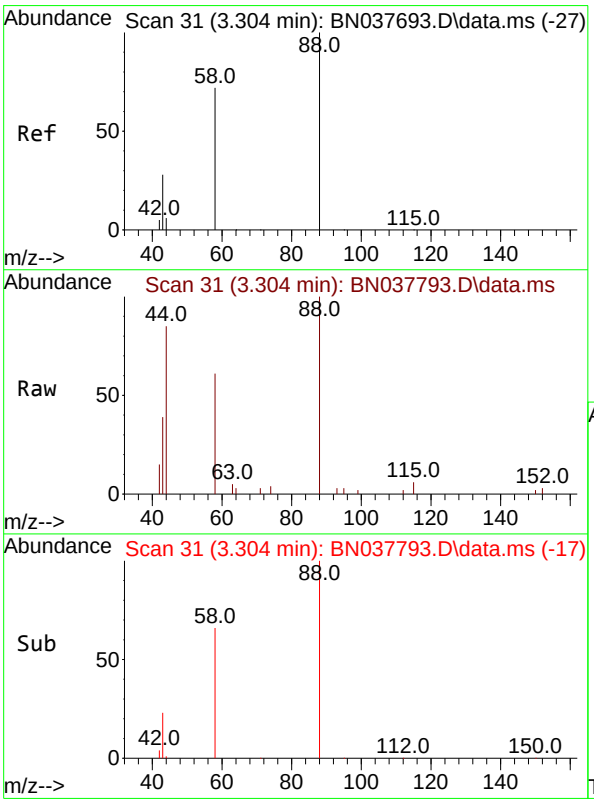
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 7441

Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.5	186.7
115	58.3	49.2	73.8

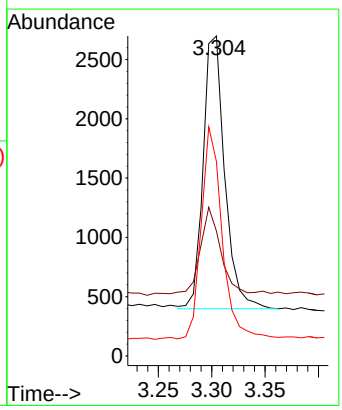


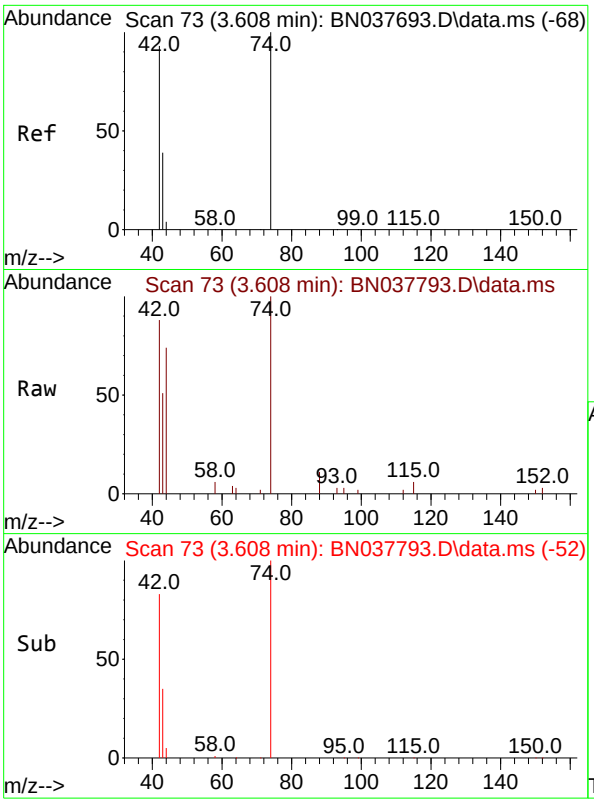


#2
1,4-Dioxane
Concen: 0.418 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion: 88 Resp: 3241

Ion	Ratio	Lower	Upper
88	100		
43	31.9	26.8	40.2
58	76.1	61.9	92.9



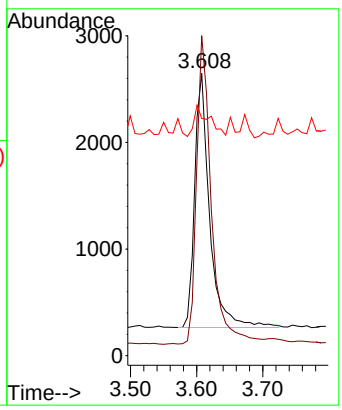


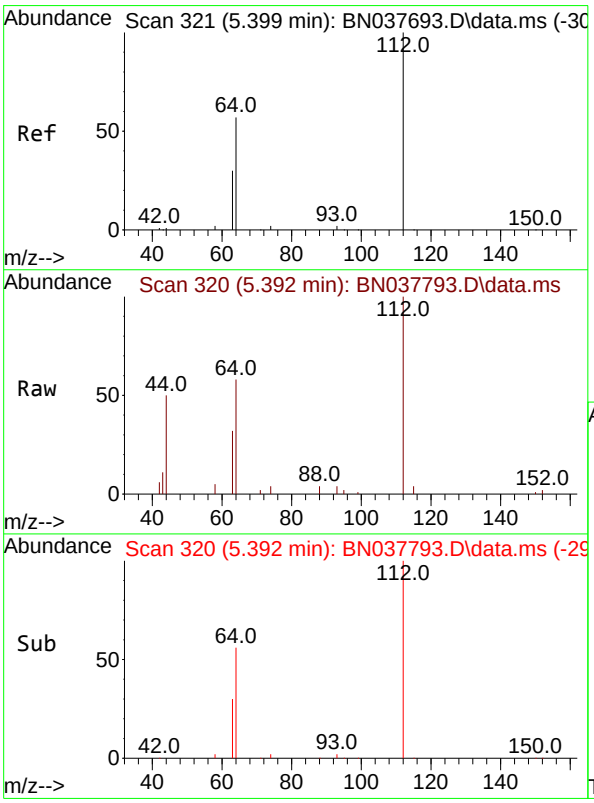
#3
n-Nitrosodimethylamine
Concen: 0.372 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 3766

Ion	Ratio	Lower	Upper
42	100		
74	120.8	86.0	129.0
44	12.6	8.4	12.6

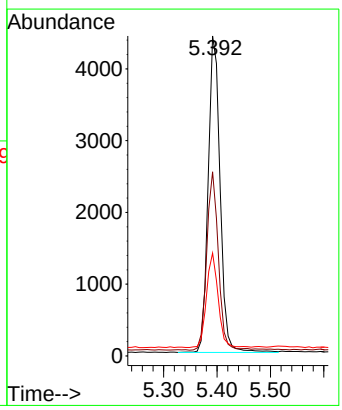


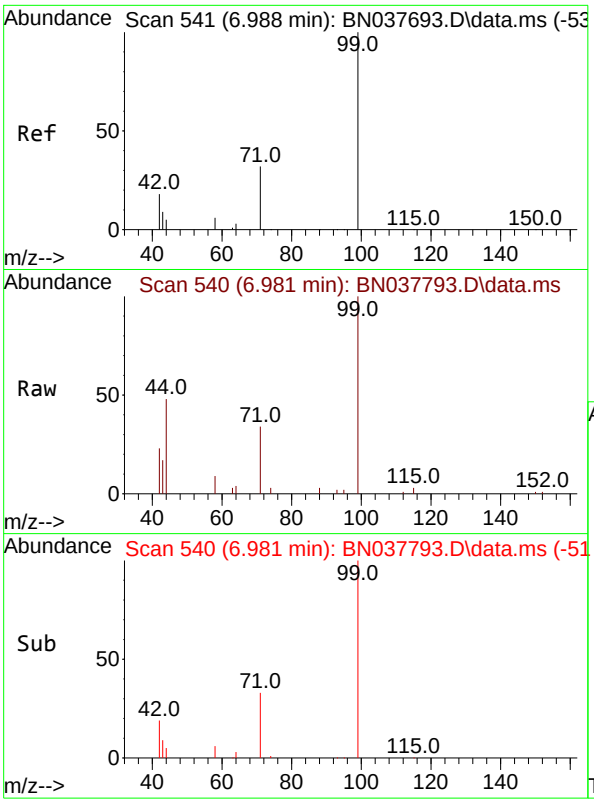


#4
2-Fluorophenol
Concen: 0.402 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:112 Resp: 6868

Ion	Ratio	Lower	Upper
112	100		
64	55.9	44.9	67.3
63	29.2	24.7	37.1



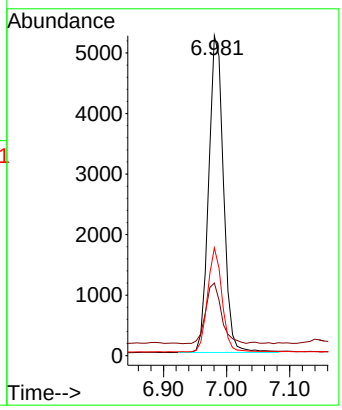


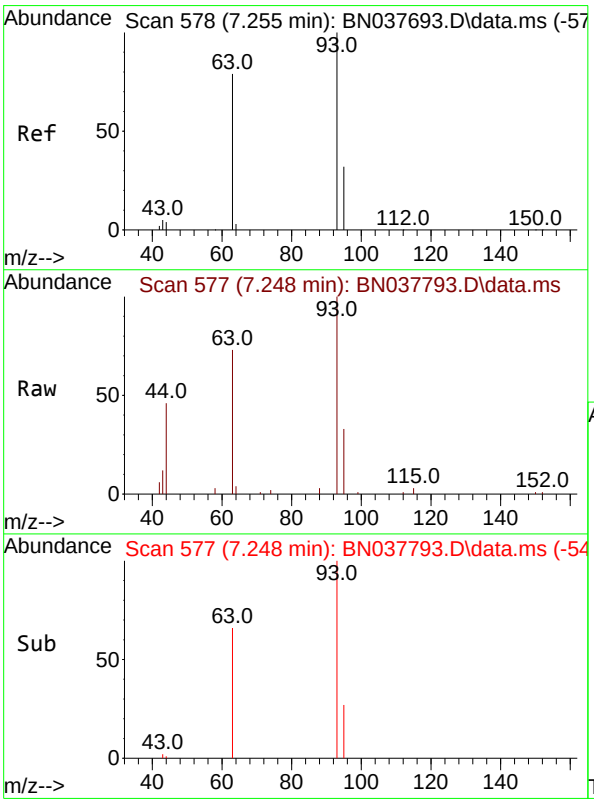
#5
Phenol-d6
Concen: 0.386 ng
RT: 6.981 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 8539

Ion	Ratio	Lower	Upper
99	100		
42	20.3	16.6	24.8
71	32.6	26.7	40.1

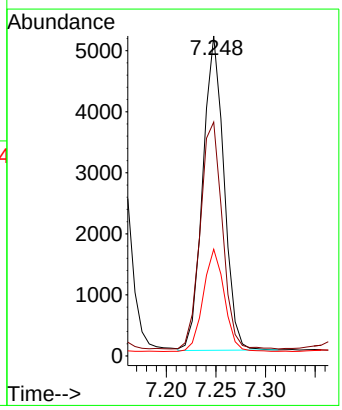


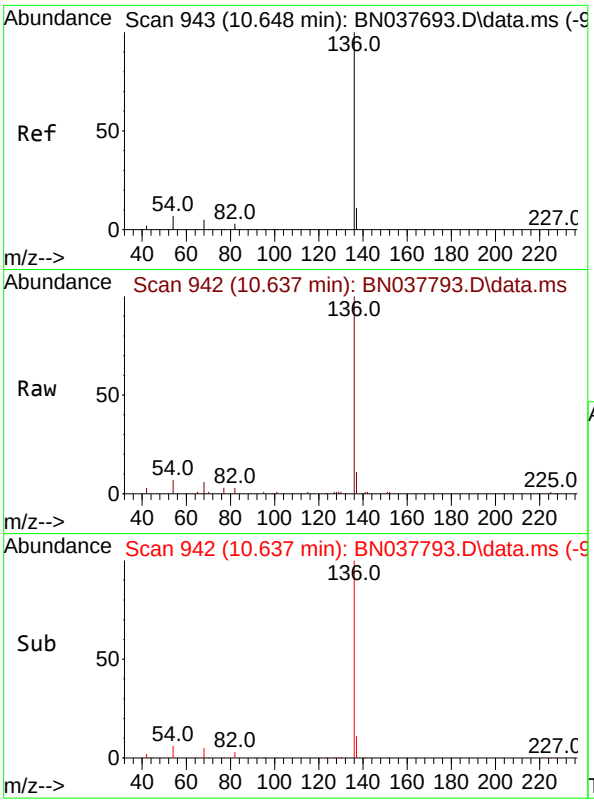


#6
bis(2-Chloroethyl)ether
Concen: 0.386 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion: 93 Resp: 7648

Ion	Ratio	Lower	Upper
93	100		
63	75.3	60.6	90.8
95	32.6	26.0	39.0



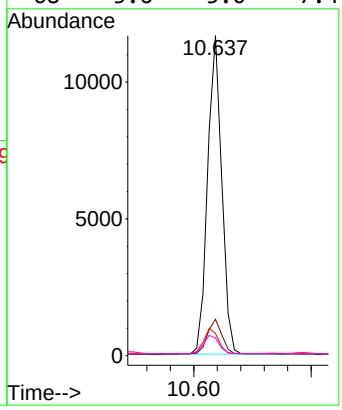


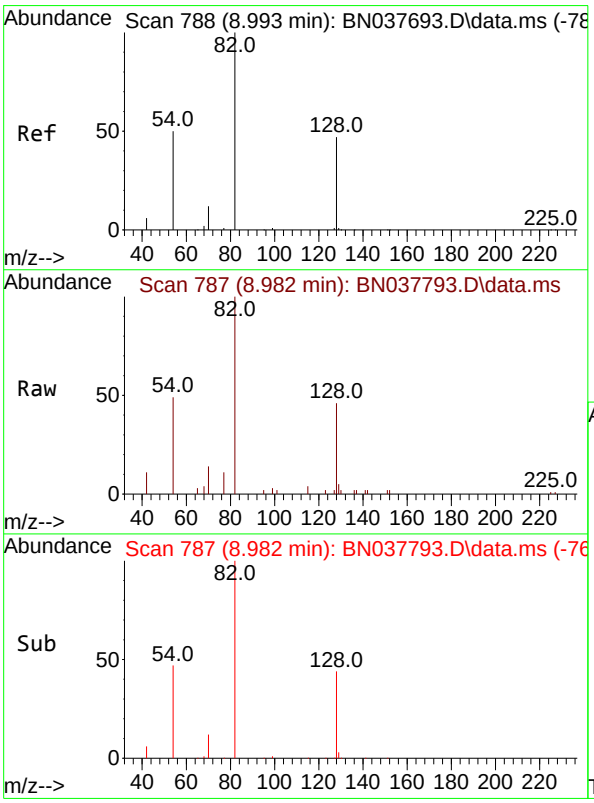
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 19492

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	6.9	6.3	9.5
68	5.6	5.0	7.4

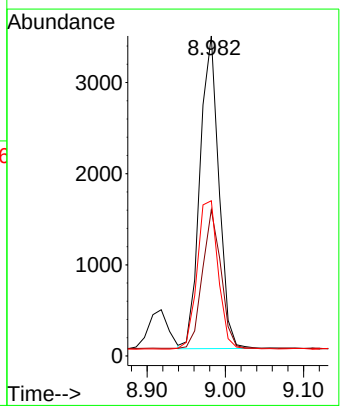


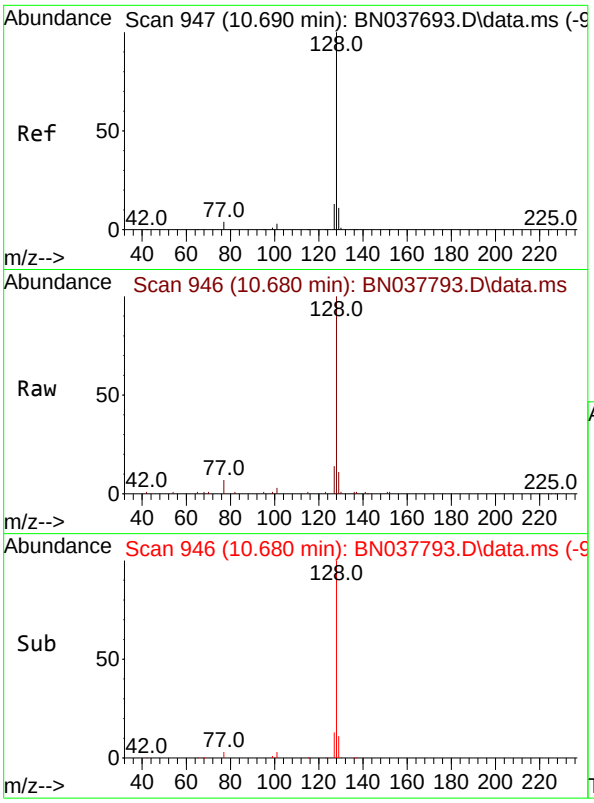


#8
Nitrobenzene-d5
Concen: 0.404 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion: 82 Resp: 5756

Ion	Ratio	Lower	Upper
82	100		
128	45.7	38.3	57.5
54	48.5	41.4	62.2



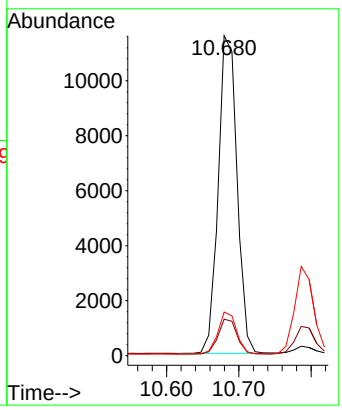


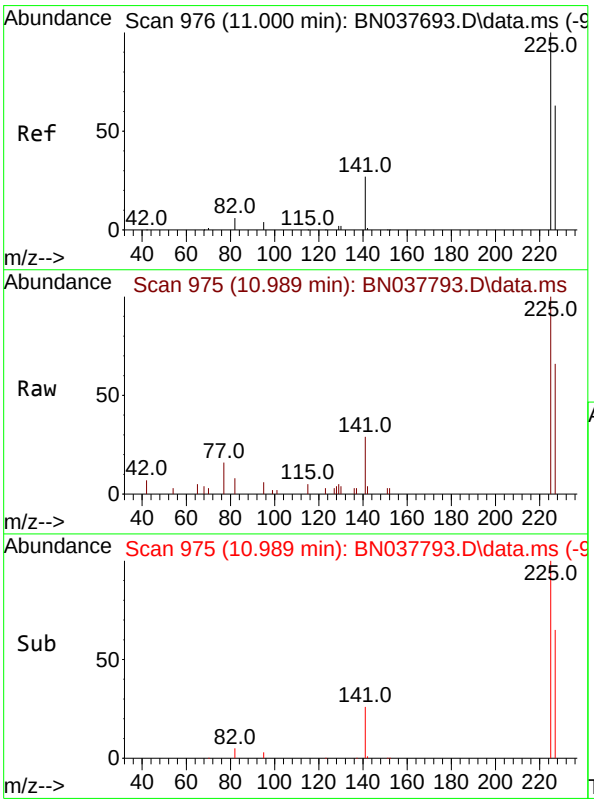
#9
Naphthalene
Concen: 0.393 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 20919

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.7	10.9	16.3

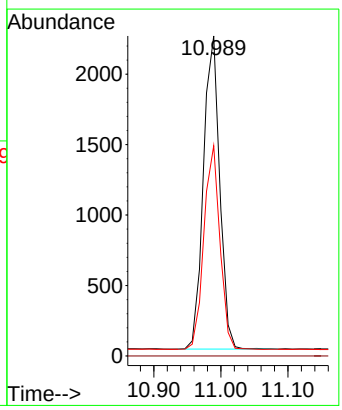


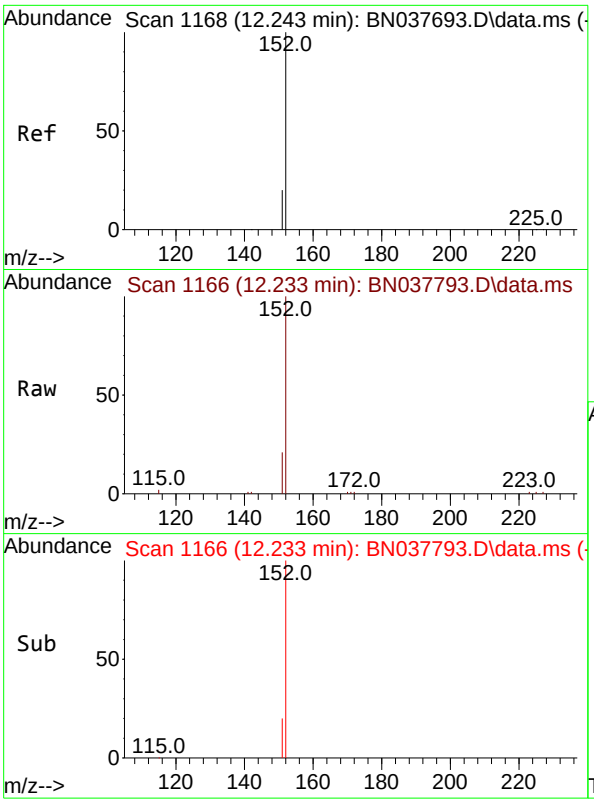


#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:225 Resp: 3750

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	50.9	76.3



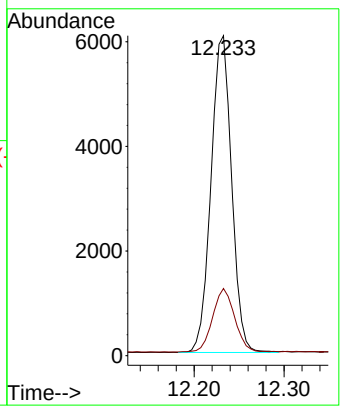


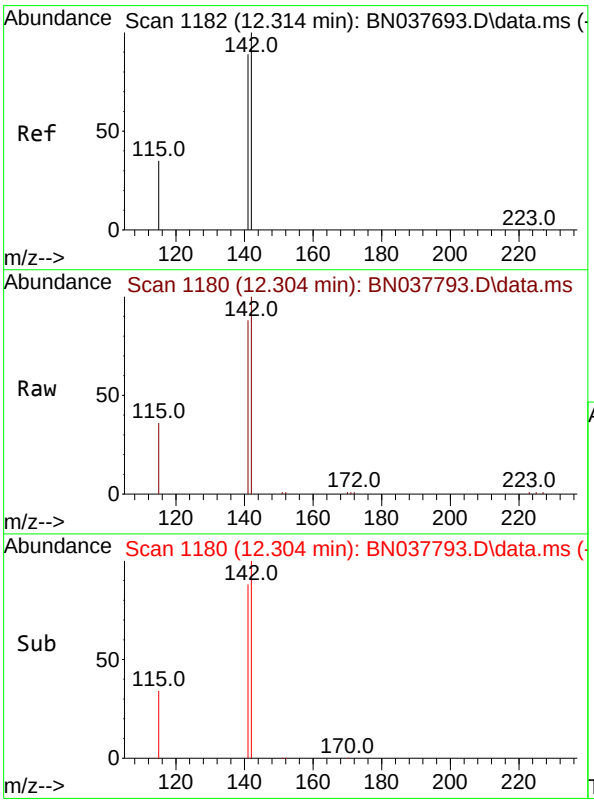
#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 9662

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.0	25.6

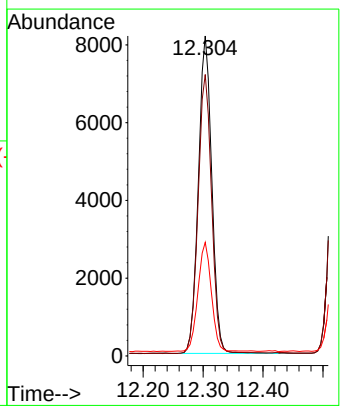


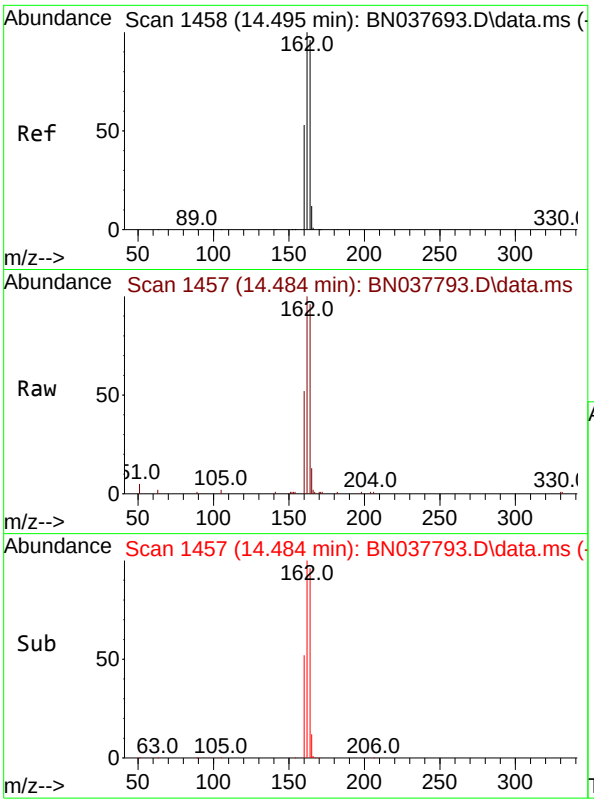


#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:142 Resp: 12695

Ion	Ratio	Lower	Upper
142	100		
141	87.9	71.6	107.4
115	35.5	28.6	43.0



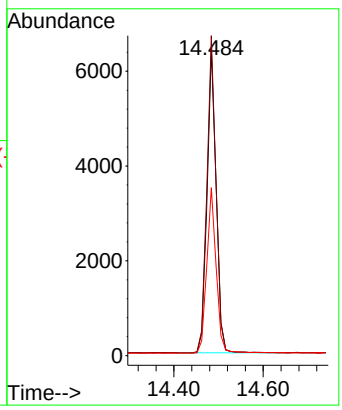


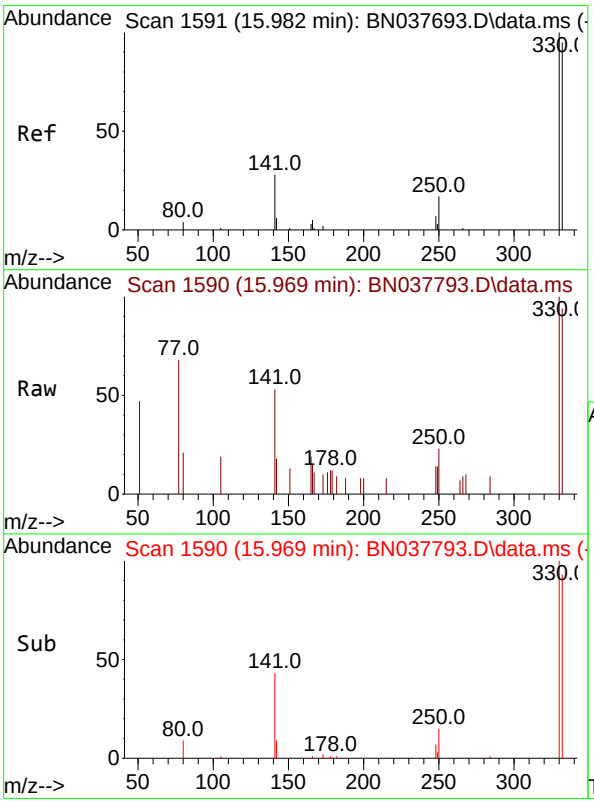
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 9091

Ion	Ratio	Lower	Upper
164	100		
162	104.3	83.1	124.7
160	54.7	44.3	66.5

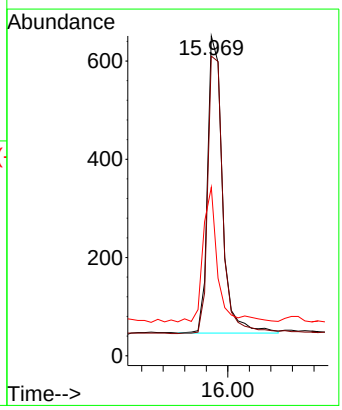


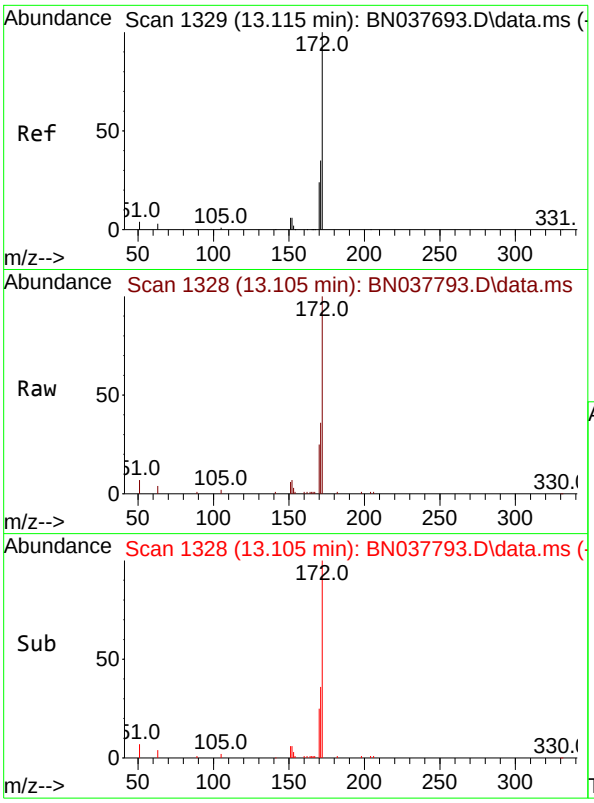


#14
2,4,6-Tribromophenol
Concen: 0.488 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:330 Resp: 1156

Ion	Ratio	Lower	Upper
330	100		
332	96.0	75.3	112.9
141	44.0	35.0	52.4



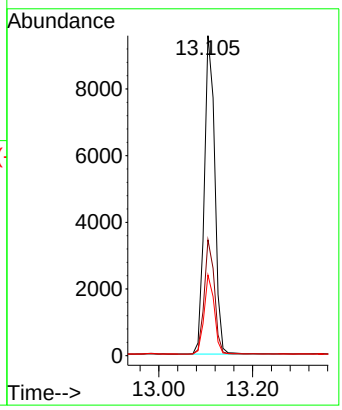


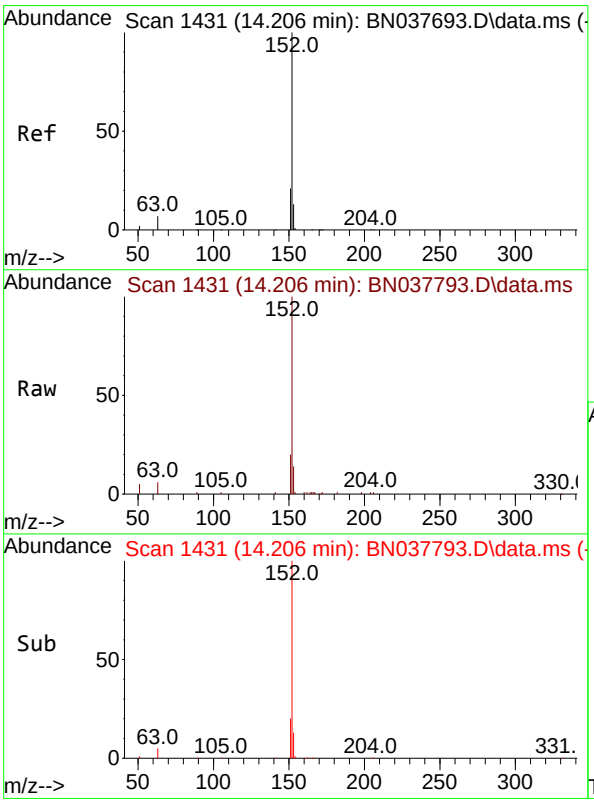
#15
2-Fluorobiphenyl
Concen: 0.390 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 14833

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	25.2	19.8	29.8

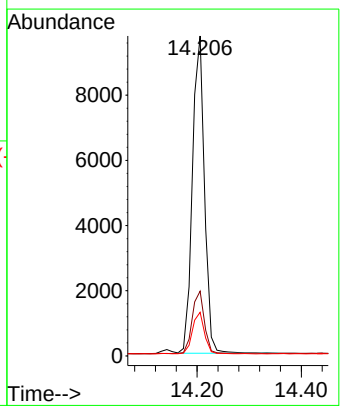


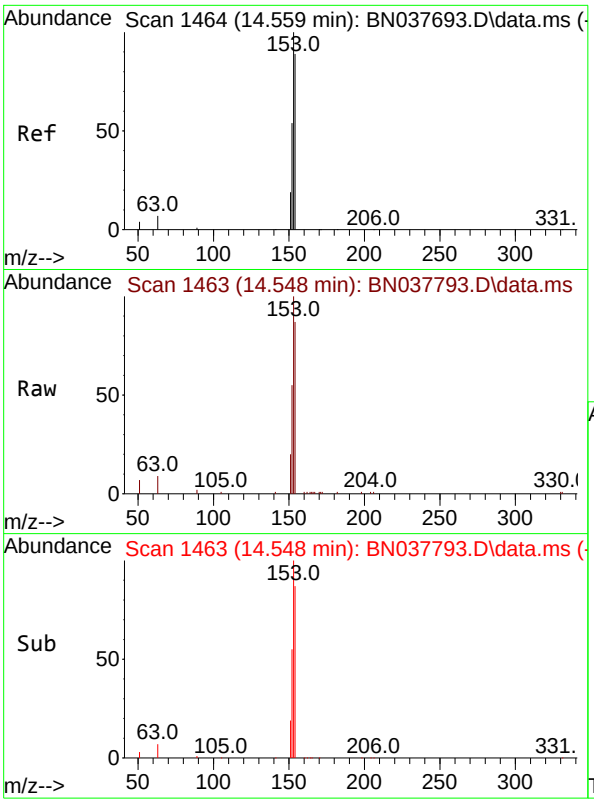


#16
Acenaphthylene
Concen: 0.377 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:152 Resp: 15704

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	13.2	10.4	15.6



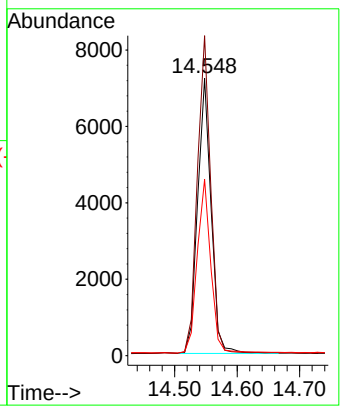


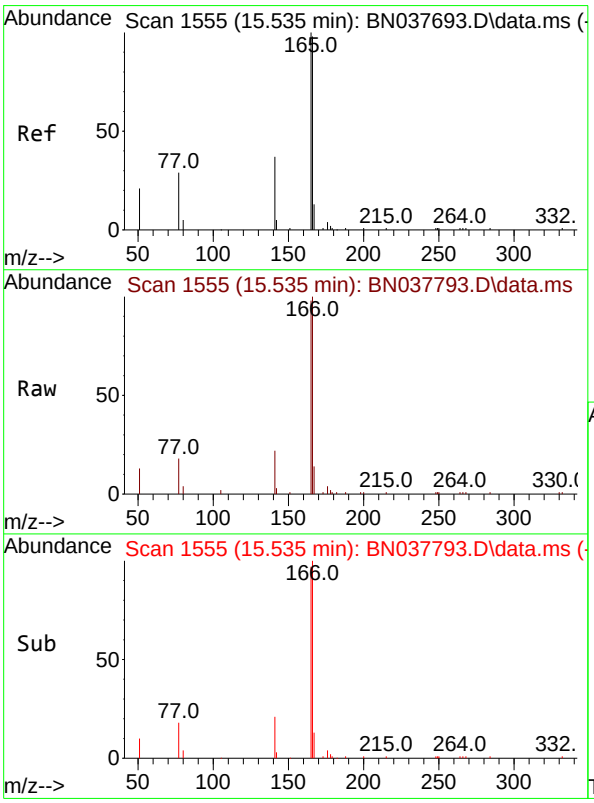
#17
Acenaphthene
Concen: 0.384 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 10816

Ion	Ratio	Lower	Upper
154	100		
153	114.7	89.8	134.8
152	63.7	50.2	75.2

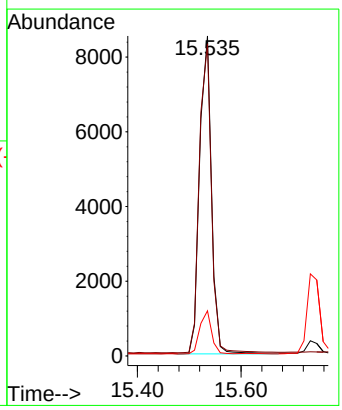


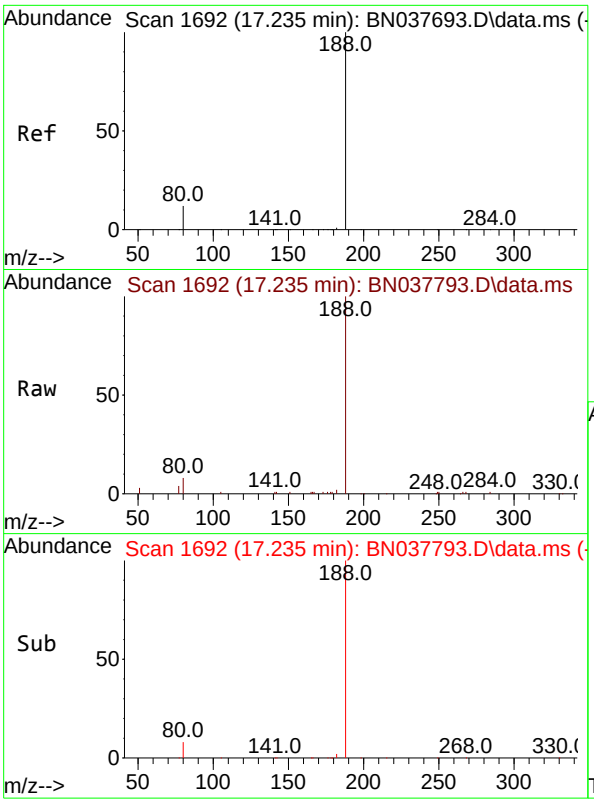


#18
Fluorene
Concen: 0.386 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:166 Resp: 13166

Ion	Ratio	Lower	Upper
166	100		
165	97.1	79.6	119.4
167	13.2	10.6	16.0



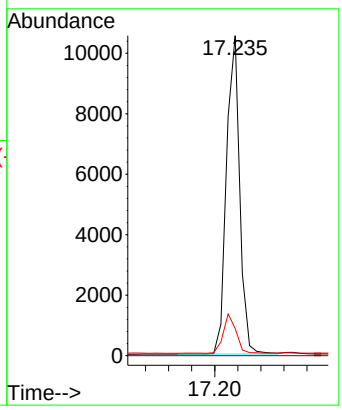


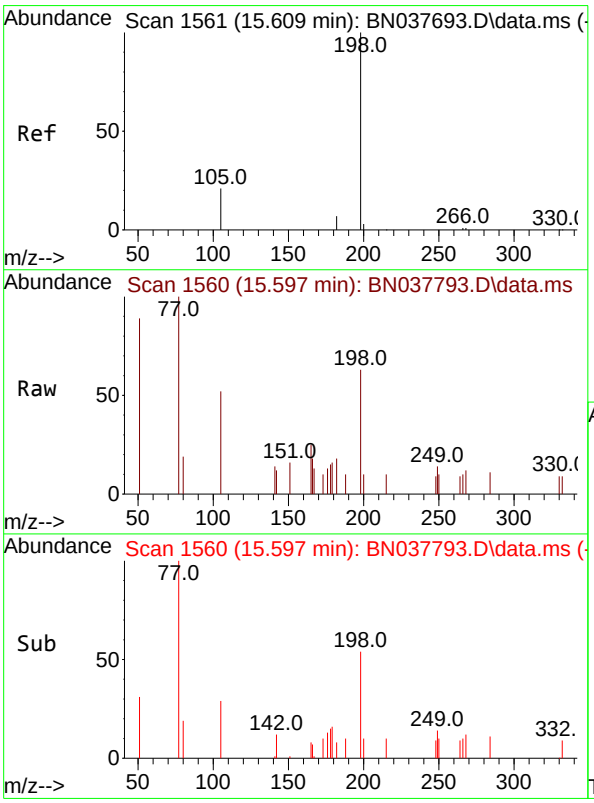
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 16806

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.5	10.6	15.8#

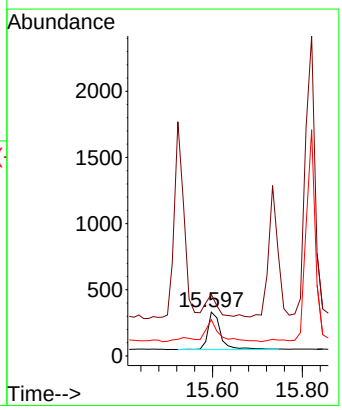


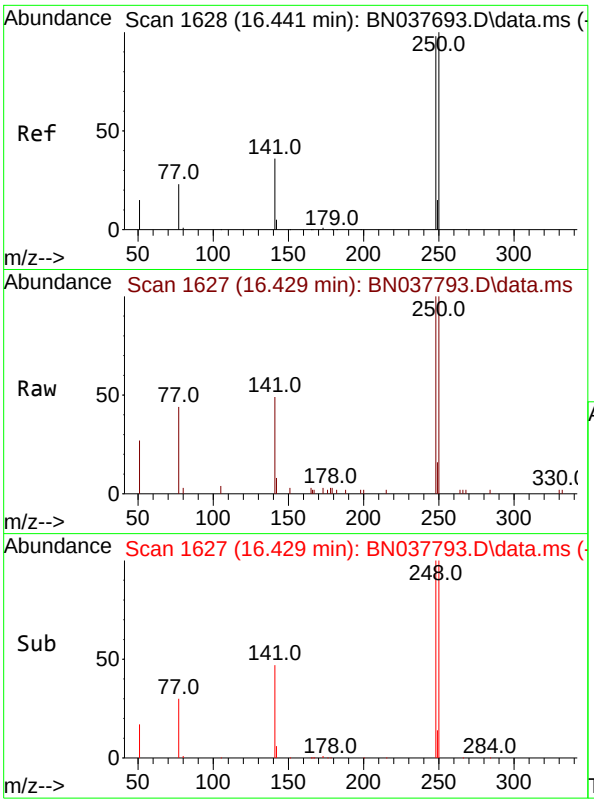


#20
4,6-Dinitro-2-methylphenol
Concen: 0.362 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:198 Resp: 563

Ion	Ratio	Lower	Upper
198	100		
51	140.5	95.1	142.7
105	82.8	53.8	80.6#



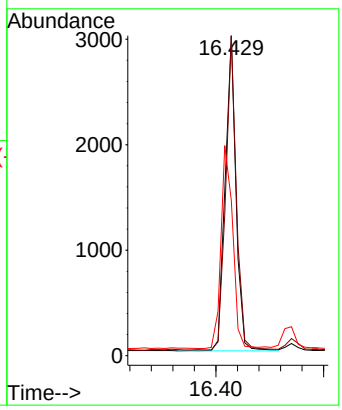


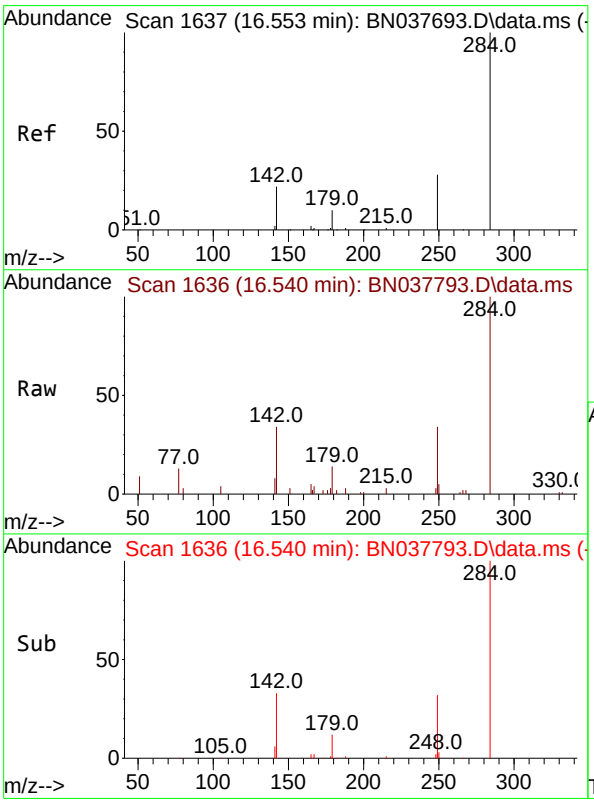
#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 4194

Ion	Ratio	Lower	Upper
248	100		
250	99.9	81.5	122.3
141	48.5	30.8	46.2#

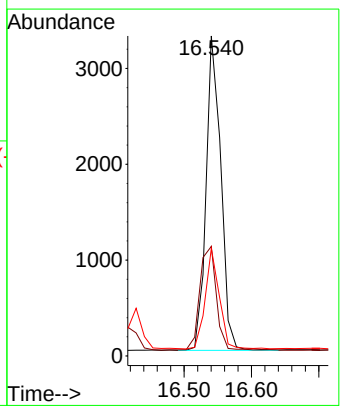


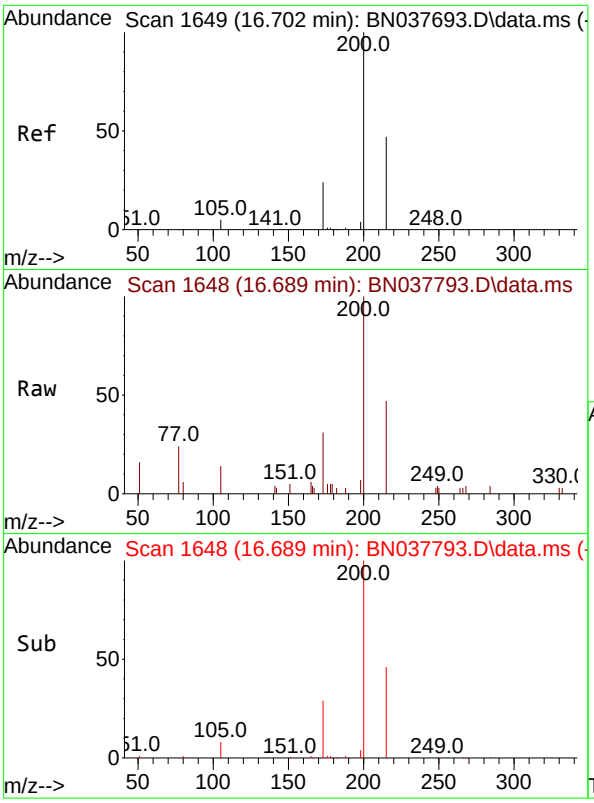


#22
Hexachlorobenzene
Concen: 0.397 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:284 Resp: 5004

Ion	Ratio	Lower	Upper
284	100		
142	37.2	30.9	46.3
249	30.4	24.8	37.2



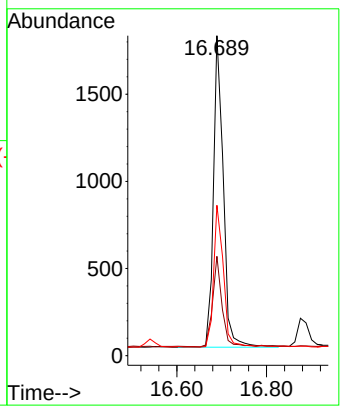


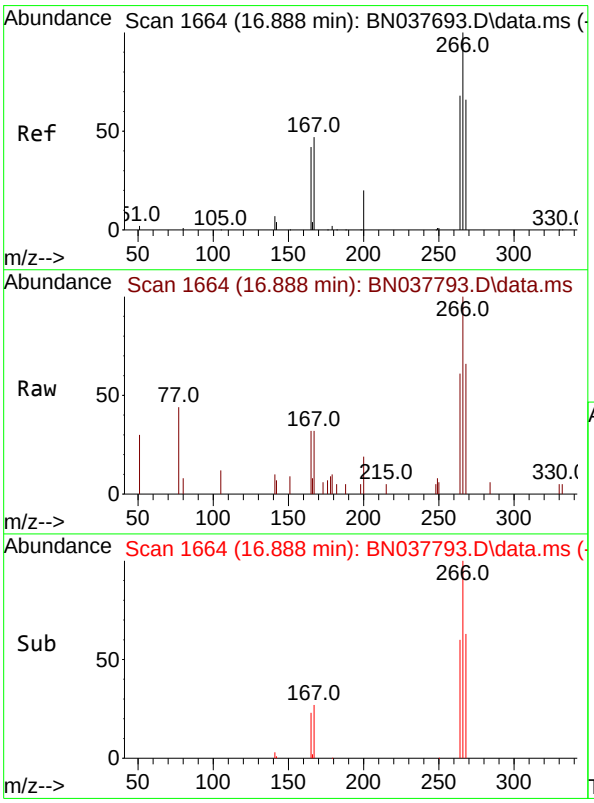
#23
Atrazine
Concen: 0.387 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 2701

Ion	Ratio	Lower	Upper
200	100		
173	31.0	21.4	32.2
215	47.0	39.2	58.8

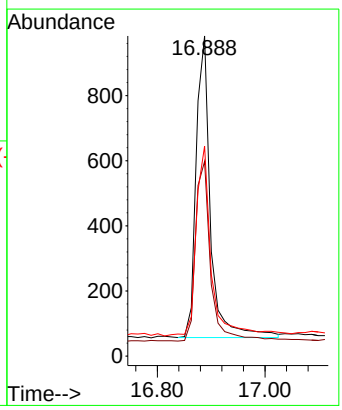


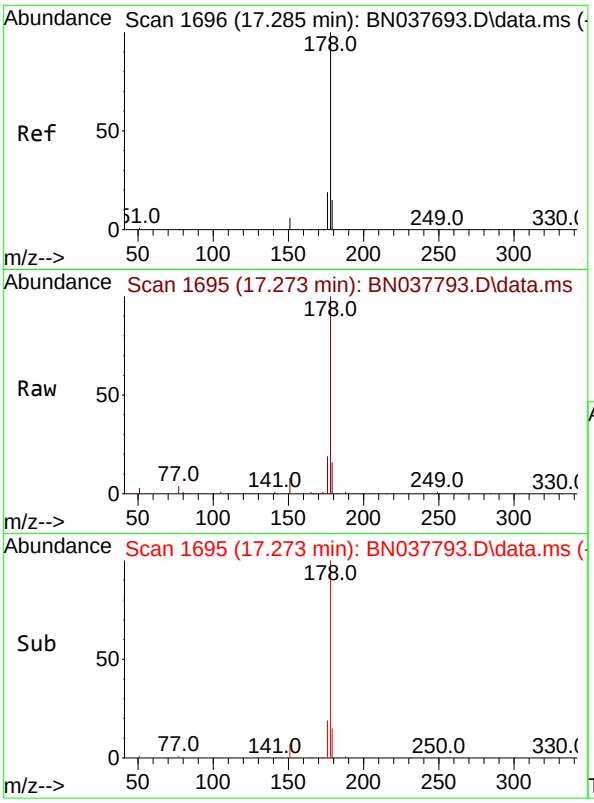


#24
Pentachlorophenol
Concen: 0.470 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:266 Resp: 1719

Ion	Ratio	Lower	Upper
266	100		
264	62.7	51.6	77.4
268	67.0	53.2	79.8



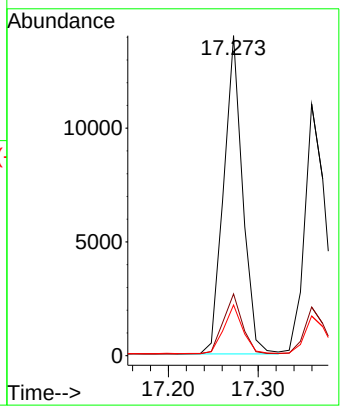


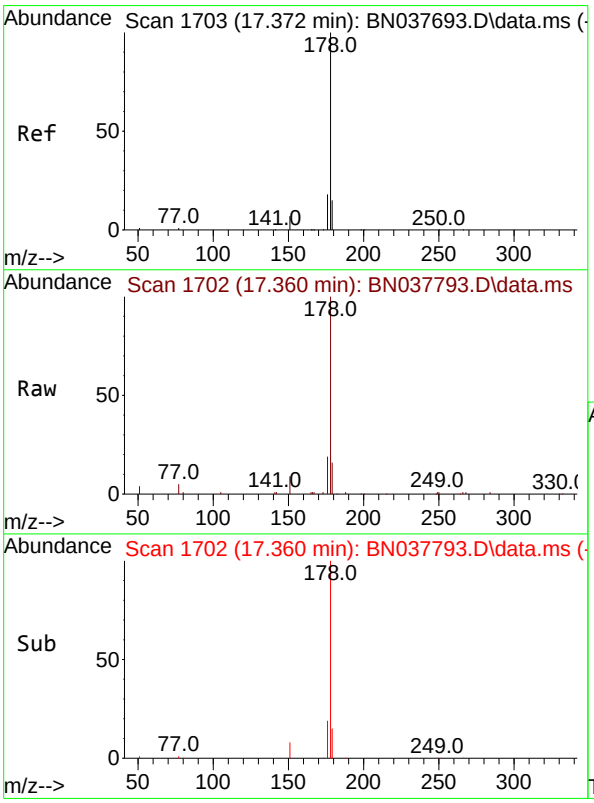
#25
Phenanthrene
Concen: 0.389 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 20559

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.4	12.2	18.2

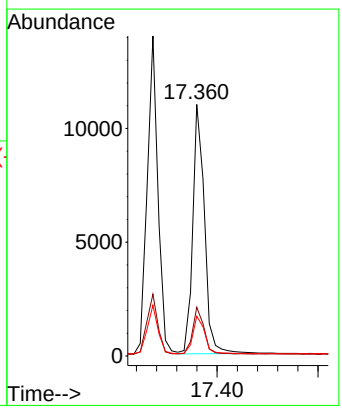


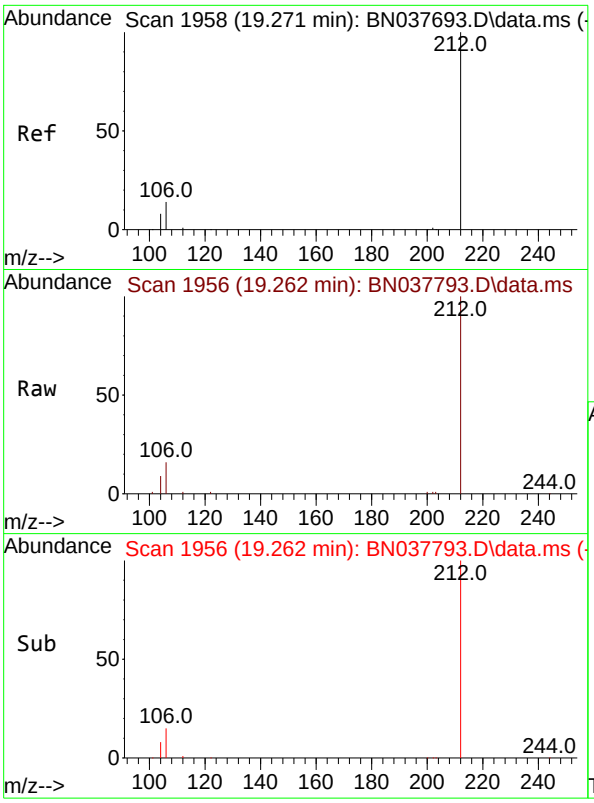


#26
Anthracene
Concen: 0.378 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:178 Resp: 17722

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.6	22.0
179	15.2	12.2	18.4



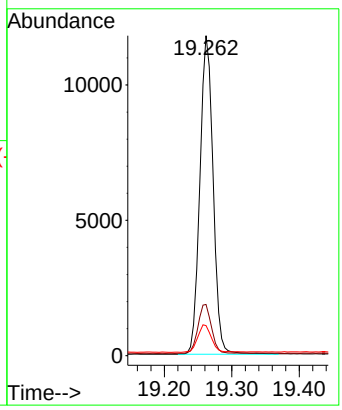


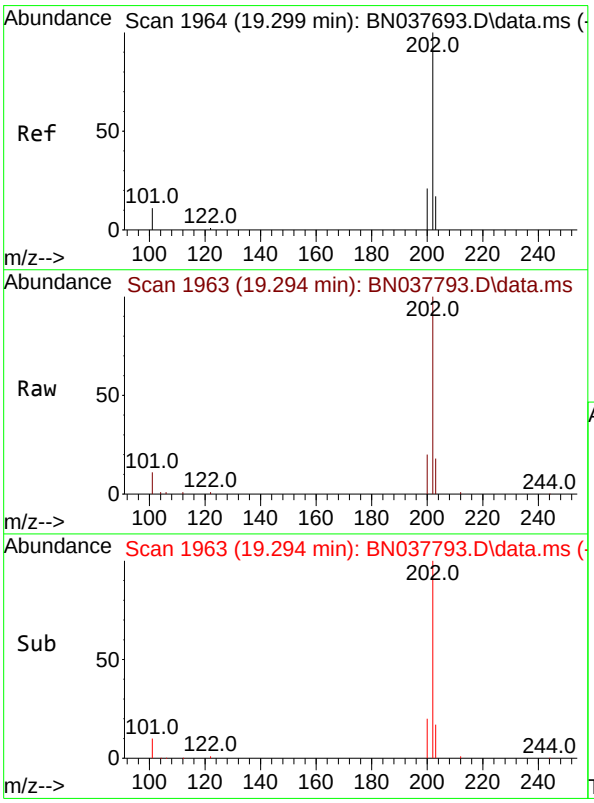
#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 16028

Ion	Ratio	Lower	Upper
212	100		
106	15.6	12.2	18.2
104	9.0	6.9	10.3

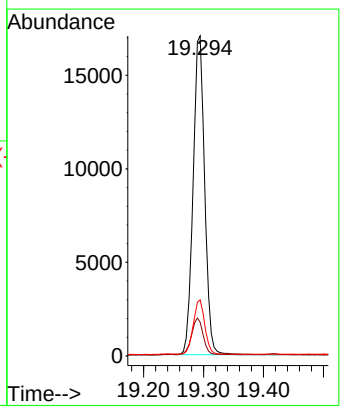


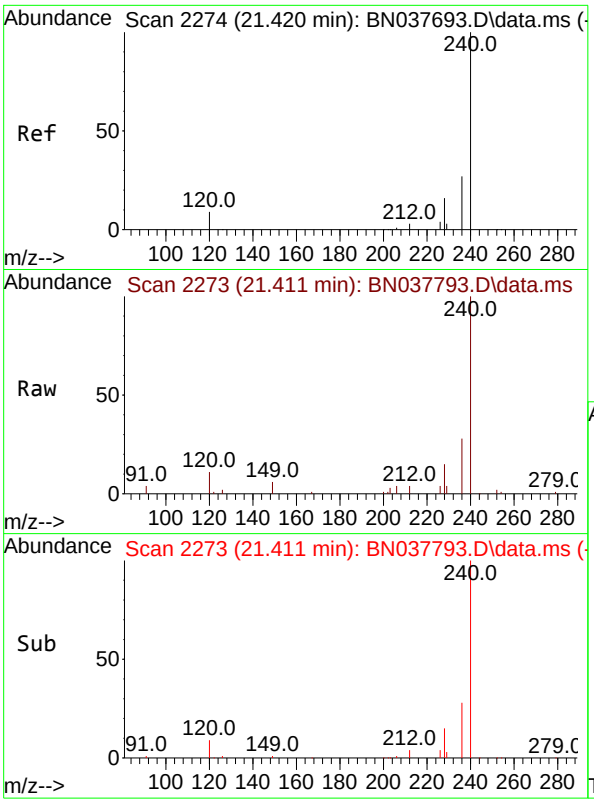


#28
Fluoranthene
Concen: 0.394 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:202 Resp: 22839

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	16.9	13.7	20.5



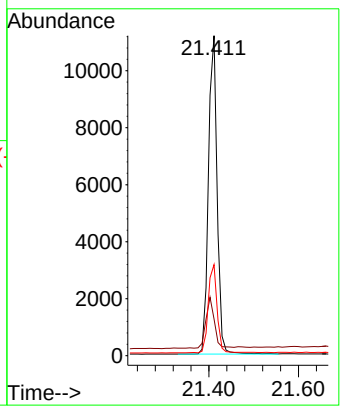


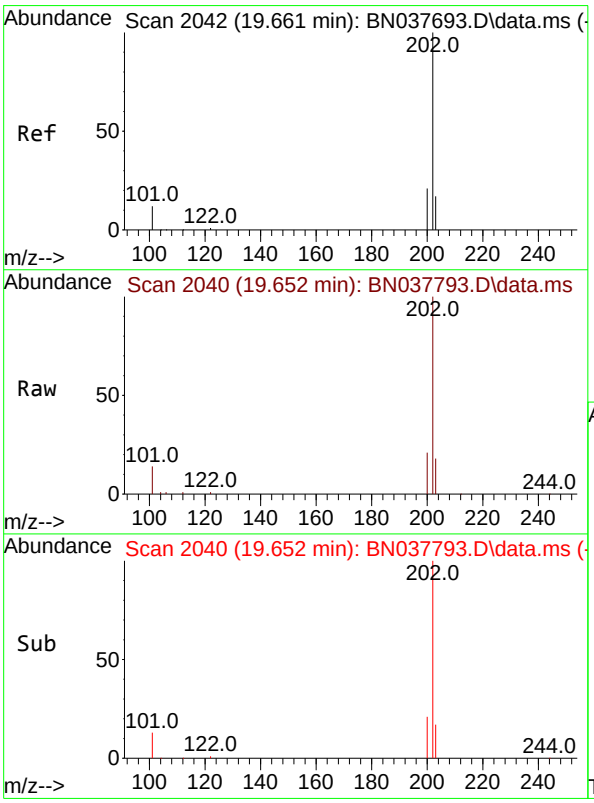
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 15128

Ion	Ratio	Lower	Upper
240	100		
120	11.5	9.2	13.8
236	28.5	22.6	33.8

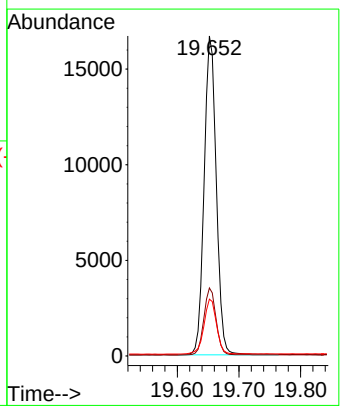


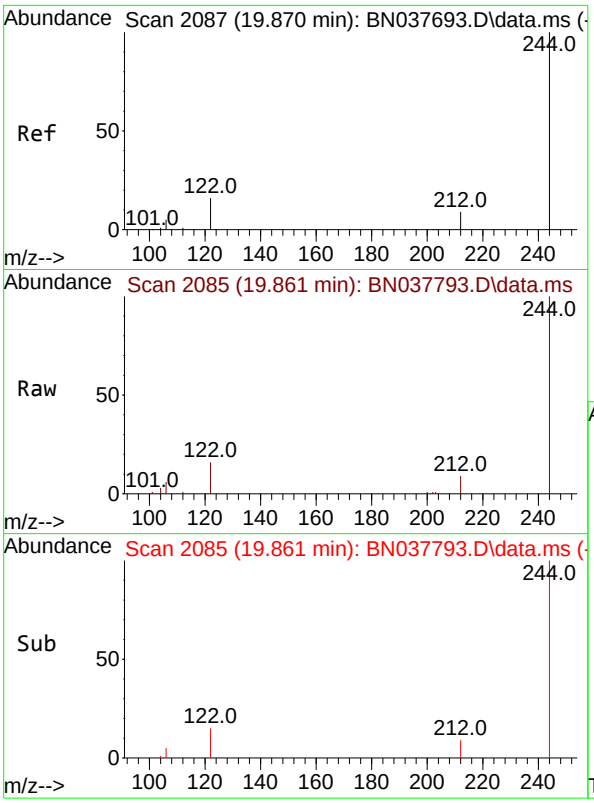


#30
Pyrene
Concen: 0.384 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:202 Resp: 22743

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	18.0	14.3	21.5



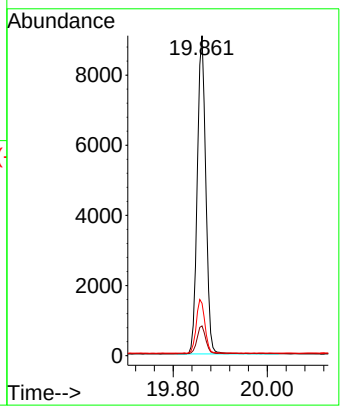


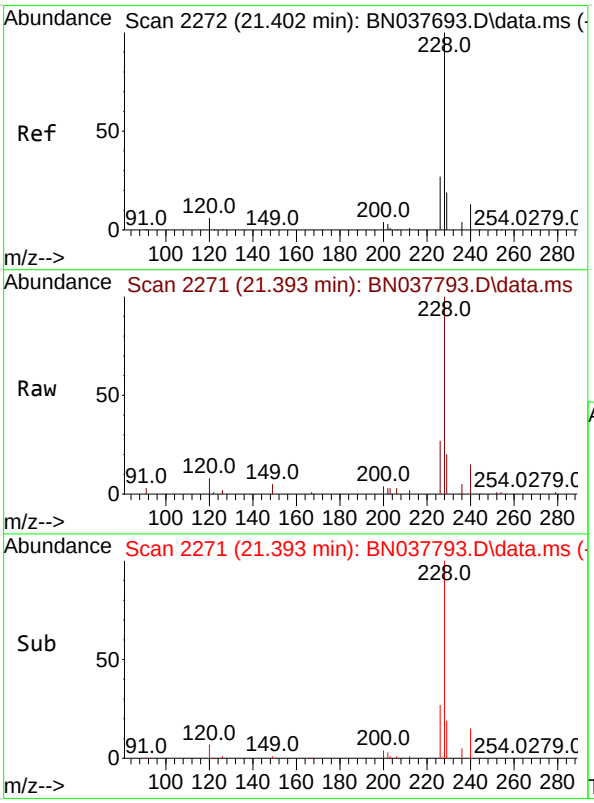
#31
Terphenyl-d14
Concen: 0.387 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 11883

Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.5	11.3
122	16.4	13.2	19.8

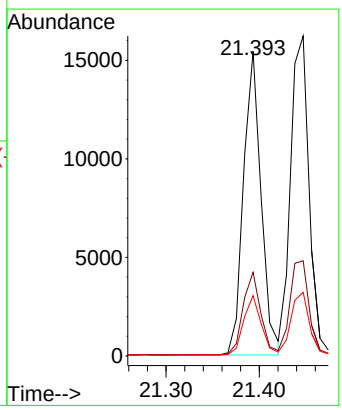


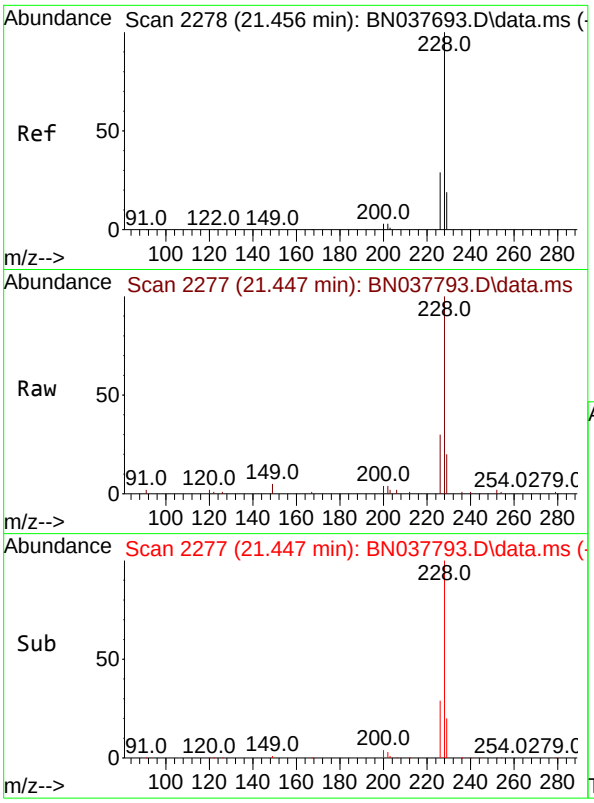


#32
Benzo(a)anthracene
Concen: 0.385 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:228 Resp: 20290

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.2	33.2
229	19.8	15.8	23.6



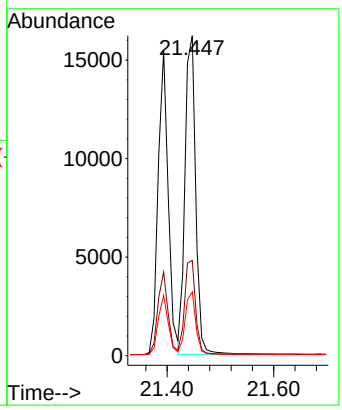


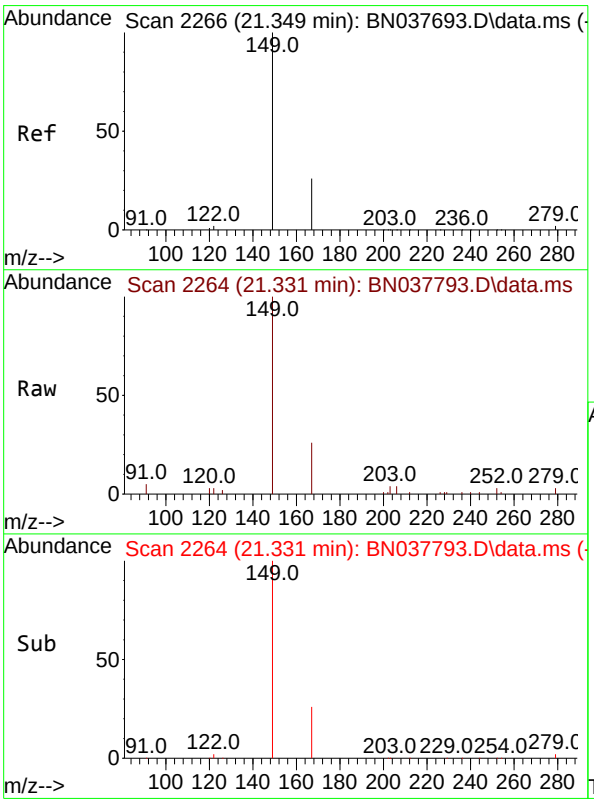
#33
Chrysene
Concen: 0.399 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 22567

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.5	35.3
229	19.9	15.9	23.9

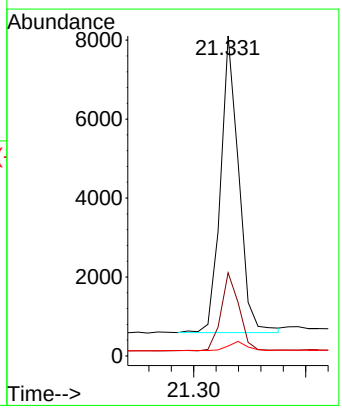


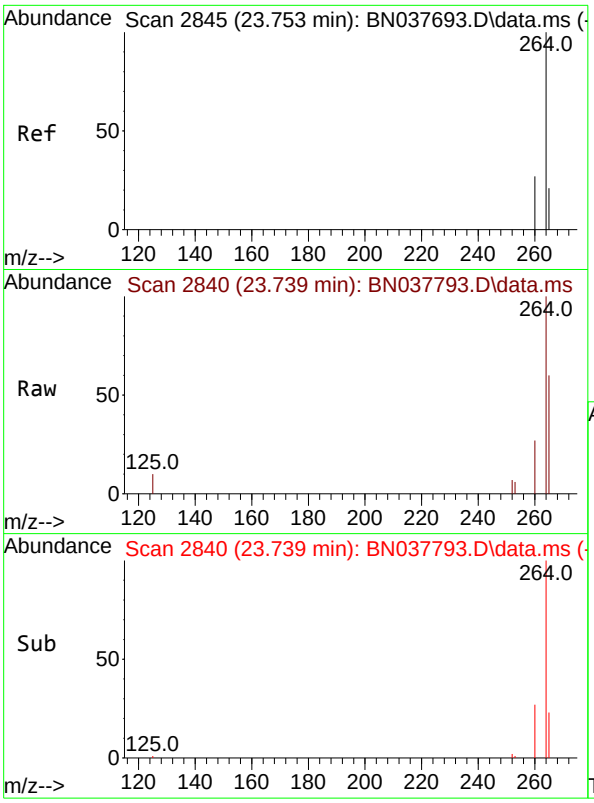


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.545 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:149 Resp: 8520

Ion	Ratio	Lower	Upper
149	100		
167	25.7	20.8	31.2
279	3.3	3.3	4.9



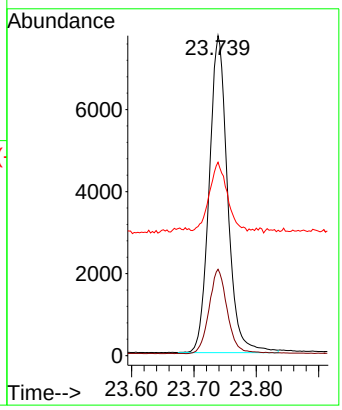


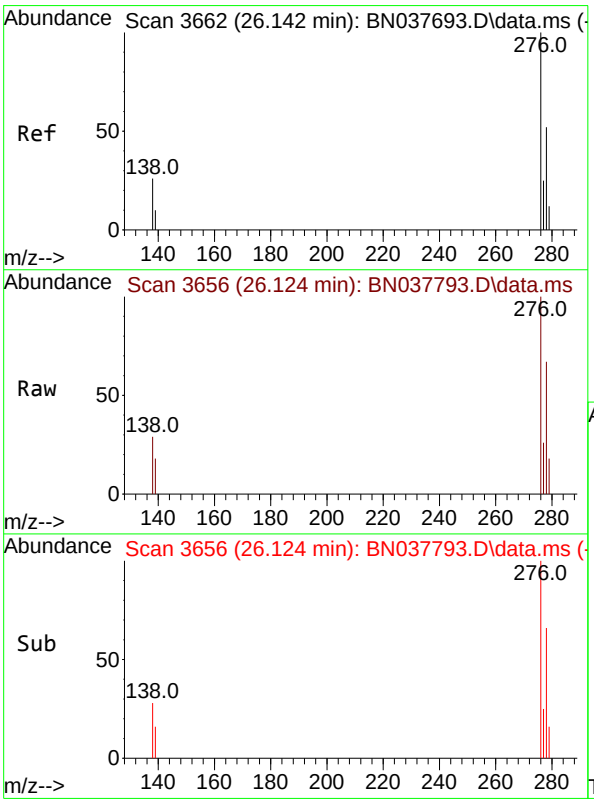
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 15864

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.8	32.8
265	60.5	39.4	59.2#

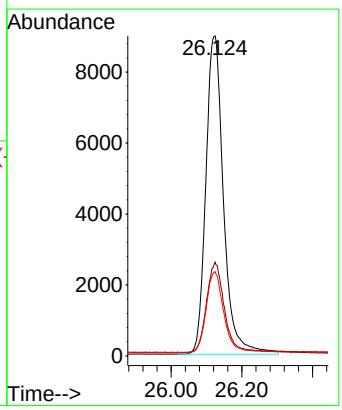


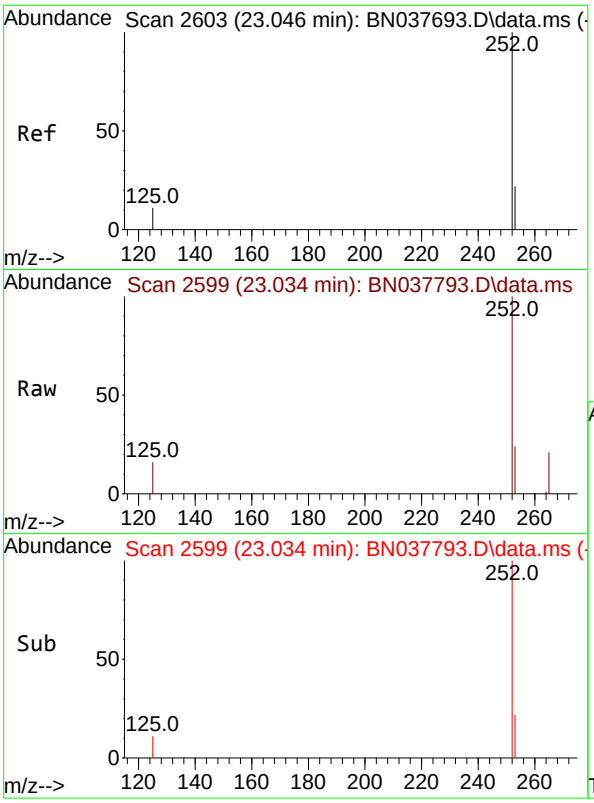


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.467 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:276 Resp: 31159

Ion	Ratio	Lower	Upper
276	100		
138	28.2	21.9	32.9
277	25.3	20.1	30.1



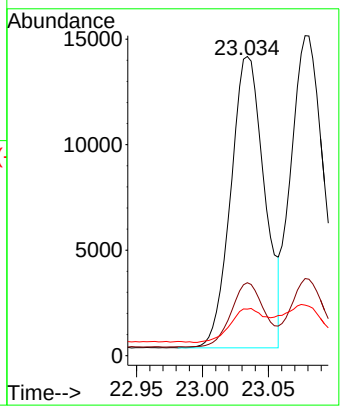


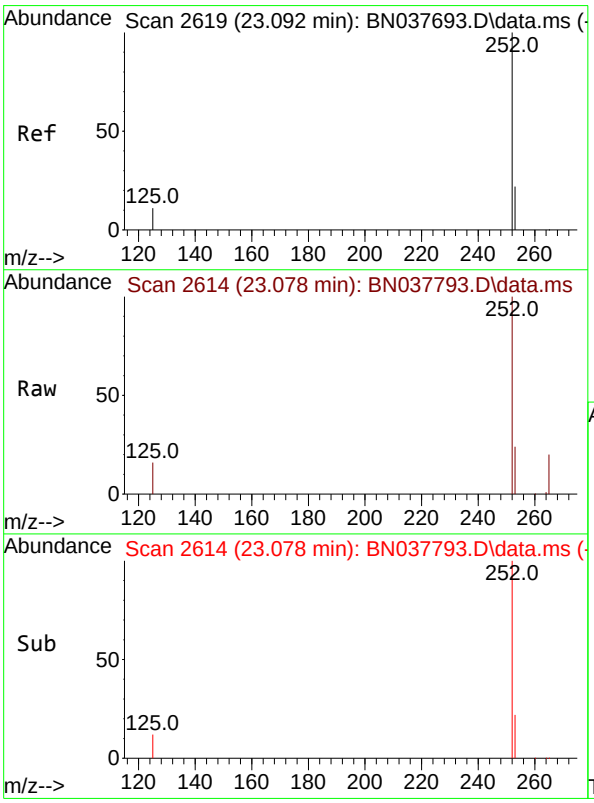
#37
Benzo(b)fluoranthene
Concen: 0.393 ng
RT: 23.034 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 24537

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.4	29.2
125	15.6	11.2	16.8

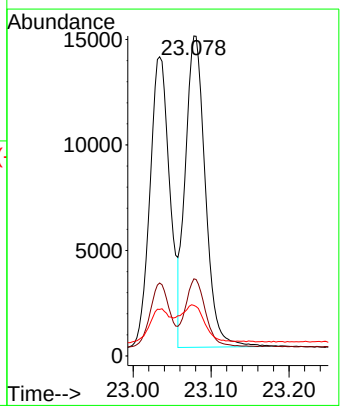


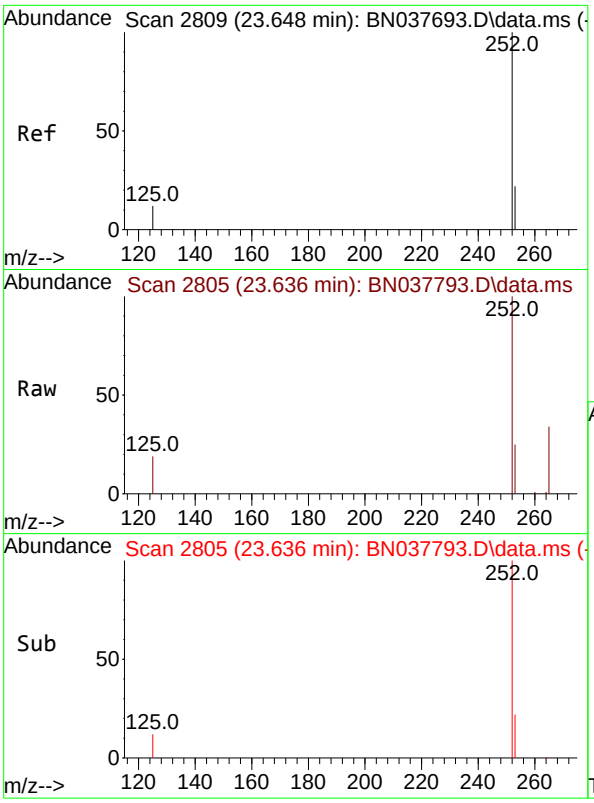


#38
Benzo(k)fluoranthene
Concen: 0.412 ng
RT: 23.078 min Scan# 2614
Delta R.T. -0.015 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:252 Resp: 26227

Ion	Ratio	Lower	Upper
252	100		
253	24.1	19.4	29.0
125	15.8	11.6	17.4



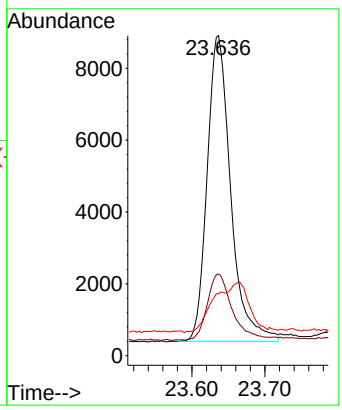


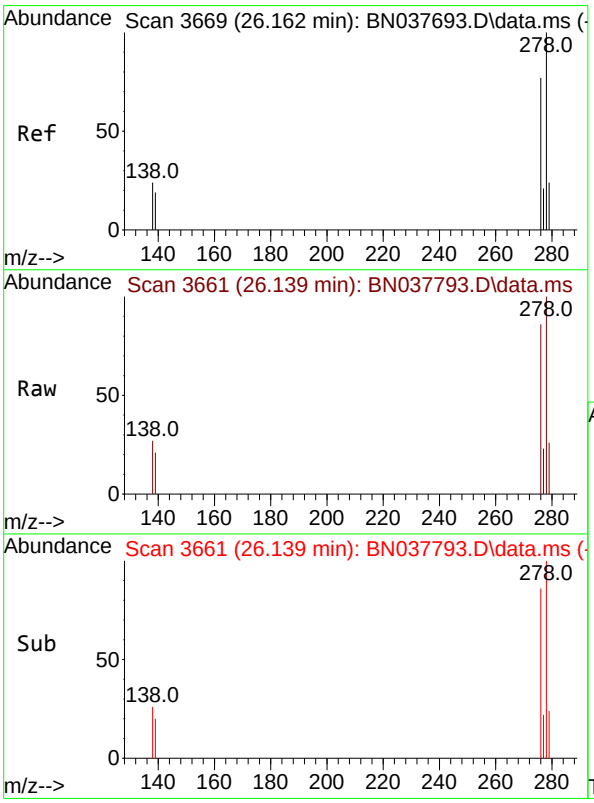
#39
Benzo(a)pyrene
Concen: 0.384 ng
RT: 23.636 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 19199

Ion	Ratio	Lower	Upper
252	100		
253	25.5	20.8	31.2
125	19.4	13.9	20.9

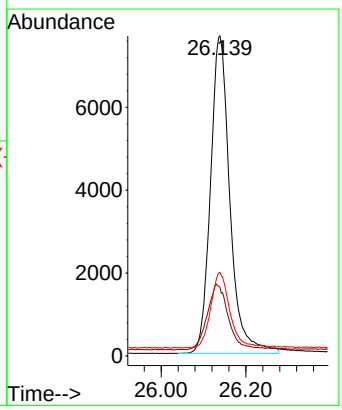


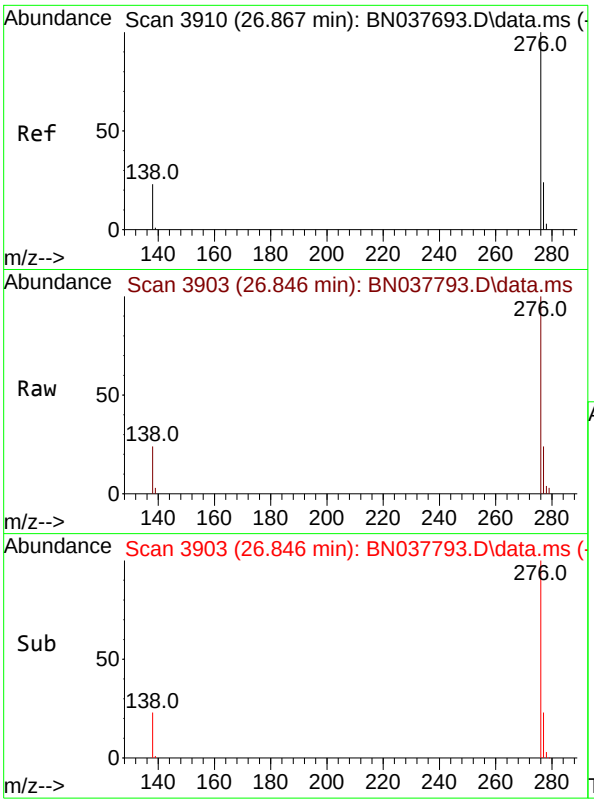


#40
Dibenzo(a,h)anthracene
Concen: 0.459 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.023 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:278 Resp: 24445

Ion	Ratio	Lower	Upper
278	100		
139	21.4	17.8	26.6
279	26.1	22.0	33.0



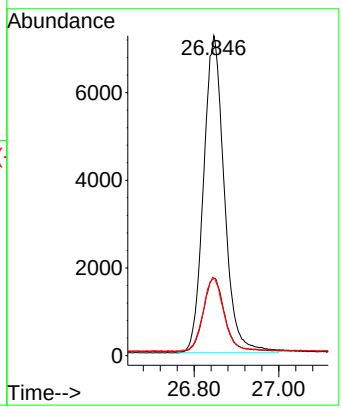


#41
Benzo(g,h,i)perylene
Concen: 0.413 ng
RT: 26.846 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 24646

Ion	Ratio	Lower	Upper
276	100		
277	24.1	20.6	31.0
138	24.2	20.2	30.2



Sample Results: **BN037793.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037793.D
Acq On : 19 Sep 2025 00:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 04:13:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	149	0.00
2		1,4-Dioxane	0.417	0.436	-4.6	154#	0.00
3		n-Nitrosodimethylamine	0.544	0.506	7.0	134	0.00
4	S	2-Fluorophenol	0.918	0.923	-0.5	154#	0.00
5	S	Phenol-d6	1.191	1.148	3.6	148	0.00
6		bis(2-Chloroethyl)ether	1.064	1.028	3.4	143	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	147	-0.01
8	S	Nitrobenzene-d5	0.293	0.295	-0.7	153#	-0.01
9		Naphthalene	1.093	1.073	1.8	147	-0.01
10		Hexachlorobutadiene	0.198	0.192	3.0	143	-0.01
11	SURR	2-Methylnaphthalene-d10	0.530	0.496	6.4	146	-0.01
12		2-Methylnaphthalene	0.676	0.651	3.7	145	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	147	-0.01
14	S	2,4,6-Tribromophenol	0.104	0.127	-22.1	185#	-0.01
15	S	2-Fluorobiphenyl	1.673	1.632	2.5	145	-0.01
16		Acenaphthylene	1.834	1.727	5.8	142	0.00
17		Acenaphthene	1.240	1.190	4.0	143	-0.01
18		Fluorene	1.502	1.448	3.6	147	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	149	0.00
20		4,6-Dinitro-2-methylphenol	0.037	0.033	10.8	151#	-0.01
21		4-Bromophenyl-phenylether	0.261	0.250	4.2	148	-0.01
22		Hexachlorobenzene	0.300	0.298	0.7	151#	-0.01
23		Atrazine	0.166	0.161	3.0	158#	-0.01
24		Pentachlorophenol	0.087	0.102	-17.2	205#	0.00
25		Phenanthrene	1.259	1.223	2.9	149	-0.01
26		Anthracene	1.116	1.055	5.5	147	-0.01
27	SURR	Fluoranthene-d10	1.004	0.954	5.0	152#	0.00
28		Fluoranthene	1.381	1.359	1.6	155#	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	161#	0.00
30		Pyrene	1.566	1.503	4.0	156#	0.00
31	S	Terphenyl-d14	0.812	0.785	3.3	158#	0.00
32		Benzo(a)anthracene	1.395	1.341	3.9	161#	0.00
33		Chrysene	1.496	1.492	0.3	161#	0.00
34		Bis(2-ethylhexyl)phthalate	0.414	0.563	-36.0#	242#	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	177#	-0.01
36		Indeno(1,2,3-cd)pyrene	1.681	1.964	-16.8	225#	-0.02
37		Benzo(b)fluoranthene	1.575	1.547	1.8	176#	-0.01
38		Benzo(k)fluoranthene	1.606	1.653	-2.9	192#	-0.01
39	C	Benzo(a)pyrene	1.261	1.210	4.0	178#	-0.01
40		Dibenzo(a,h)anthracene	1.342	1.541	-14.8	225#	-0.02
41		Benzo(g,h,i)perylene	1.506	1.554	-3.2	189#	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN037793.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037793.D
Acq On : 19 Sep 2025 00:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 04:13:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	149	0.00
2		1,4-Dioxane	0.400	0.418	-4.5	154	0.00
3		n-Nitrosodimethylamine	0.400	0.372	7.0	134	0.00
4	S	2-Fluorophenol	0.400	0.402	-0.5	154	0.00
5	S	Phenol-d6	0.400	0.386	3.5	148	0.00
6		bis(2-Chloroethyl)ether	0.400	0.386	3.5	143	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	147	-0.01
8	S	Nitrobenzene-d5	0.400	0.404	-1.0	153	-0.01
9		Naphthalene	0.400	0.393	1.8	147	-0.01
10		Hexachlorobutadiene	0.400	0.389	2.8	143	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.374	6.5	146	-0.01
12		2-Methylnaphthalene	0.400	0.385	3.8	145	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	147	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.488	-22.0	185	-0.01
15	S	2-Fluorobiphenyl	0.400	0.390	2.5	145	-0.01
16		Acenaphthylene	0.400	0.377	5.8	142	0.00
17		Acenaphthene	0.400	0.384	4.0	143	-0.01
18		Fluorene	0.400	0.386	3.5	147	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	149	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.362	9.5	151	-0.01
21		4-Bromophenyl-phenylether	0.400	0.383	4.3	148	-0.01
22		Hexachlorobenzene	0.400	0.397	0.8	151	-0.01
23		Atrazine	0.400	0.387	3.3	158	-0.01
24		Pentachlorophenol	0.400	0.470	-17.5	205	0.00
25		Phenanthrene	0.400	0.389	2.8	149	-0.01
26		Anthracene	0.400	0.378	5.5	147	-0.01
27	SURR	Fluoranthene-d10	0.400	0.380	5.0	152	0.00
28		Fluoranthene	0.400	0.394	1.5	155	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	161	0.00
30		Pyrene	0.400	0.384	4.0	156	0.00
31	S	Terphenyl-d14	0.400	0.387	3.3	158	0.00
32		Benzo(a)anthracene	0.400	0.385	3.8	161	0.00
33		Chrysene	0.400	0.399	0.3	161	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.545	-36.3#	242	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	177	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.467	-16.8	225	-0.02
37		Benzo(b)fluoranthene	0.400	0.393	1.8	176	-0.01
38		Benzo(k)fluoranthene	0.400	0.412	-3.0	192	-0.01
39	C	Benzo(a)pyrene	0.400	0.384	4.0	178	-0.01
40		Dibenzo(a,h)anthracene	0.400	0.459	-14.8	225	-0.02
41		Benzo(g,h,i)perylene	0.400	0.413	-3.2	189	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	BNA_N	Calibration Date/Time:	09/19/2025 02:47
Lab File ID:	BN037795.D	Init. Calib. Date(s):	09/11/2025 09/11/2025
EPA Sample No.:	SSTDCCC0.4	Init. Calib. Time(s):	09:56 13:33

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.490		-7.5	20.0
Fluoranthene-d10	1.004	0.858		-14.5	20.0
2-Fluorophenol	0.918	0.830		-9.6	20.0
Phenol-d6	1.191	1.152		-3.3	20.0
Nitrobenzene-d5	0.293	0.308		5.1	20.0
2-Fluorobiphenyl	1.673	1.696		1.4	20.0
2,4,6-Tribromophenol	0.104	0.120		15.4	20.0
Terphenyl-d14	0.812	0.771		-5.0	20.0
1,4-Dioxane	0.417	0.391		-6.2	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037795.D
Acq On : 19 Sep 2025 02:47
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

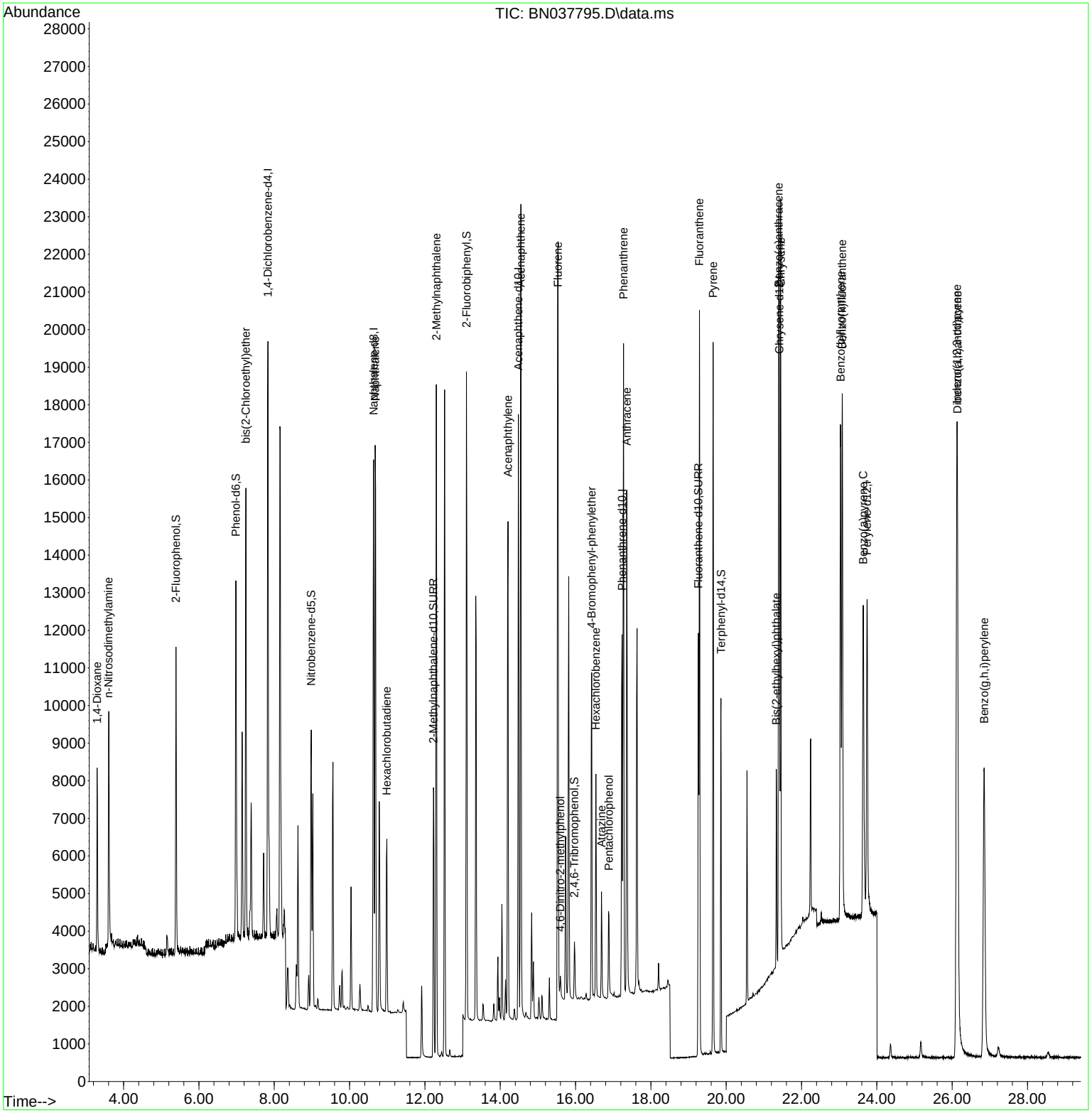
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.833	152	7724	0.400	ng		0.00
7) Naphthalene-d8	10.637	136	19361	0.400	ng		-0.01
13) Acenaphthene-d10	14.484	164	8621	0.400	ng		-0.01
19) Phenanthrene-d10	17.235	188	14380	0.400	ng		# 0.00
29) Chrysene-d12	21.411	240	11169	0.400	ng		0.00
35) Perylene-d12	23.742	264	11840	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.392	112	6414	0.362	ng		0.00
5) Phenol-d6	6.981	99	8898	0.387	ng		0.00
8) Nitrobenzene-d5	8.982	82	5961	0.421	ng		-0.01
11) 2-Methylnaphthalene-d10	12.228	152	9493	0.370	ng		-0.02
14) 2,4,6-Tribromophenol	15.969	330	1034	0.460	ng		-0.01
15) 2-Fluorobiphenyl	13.105	172	14625	0.406	ng		-0.01
27) Fluoranthene-d10	19.262	212	12337	0.342	ng		0.00
31) Terphenyl-d14	19.861	244	8607	0.380	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	3022	0.376	ng		95
3) n-Nitrosodimethylamine	3.601	42	3835	0.365	ng	#	90
6) bis(2-Chloroethyl)ether	7.248	93	8278	0.403	ng		99
9) Naphthalene	10.680	128	20623	0.390	ng		100
10) Hexachlorobutadiene	10.989	225	3796	0.396	ng	#	99
12) 2-Methylnaphthalene	12.304	142	12533	0.383	ng		99
16) Acenaphthylene	14.206	152	14987	0.379	ng		100
17) Acenaphthene	14.548	154	10387	0.389	ng		97
18) Fluorene	15.535	166	11958	0.369	ng		99
20) 4,6-Dinitro-2-methylph...	15.597	198	430	0.323	ng	#	74
21) 4-Bromophenyl-phenylether	16.429	248	3726	0.397	ng	#	96
22) Hexachlorobenzene	16.540	284	4695	0.435	ng		98
23) Atrazine	16.689	200	2195	0.368	ng	#	95
24) Pentachlorophenol	16.888	266	1416	0.452	ng		96
25) Phenanthrene	17.273	178	17514	0.387	ng		99
26) Anthracene	17.360	178	14982	0.374	ng		100
28) Fluoranthene	19.290	202	17532	0.353	ng		100
30) Pyrene	19.652	202	17441	0.399	ng		100
32) Benzo(a)anthracene	21.393	228	14838	0.381	ng		100
33) Chrysene	21.447	228	16770	0.401	ng		99
34) Bis(2-ethylhexyl)phtha...	21.331	149	4946	0.428	ng		99
36) Indeno(1,2,3-cd)pyrene	26.124	276	22723	0.457	ng		99
37) Benzo(b)fluoranthene	23.037	252	17698	0.380	ng		98
38) Benzo(k)fluoranthene	23.081	252	18956	0.399	ng		97
39) Benzo(a)pyrene	23.636	252	14490	0.388	ng		97
40) Dibenzo(a,h)anthracene	26.139	278	17796	0.448	ng		98
41) Benzo(g,h,i)perylene	26.849	276	18357	0.412	ng		97

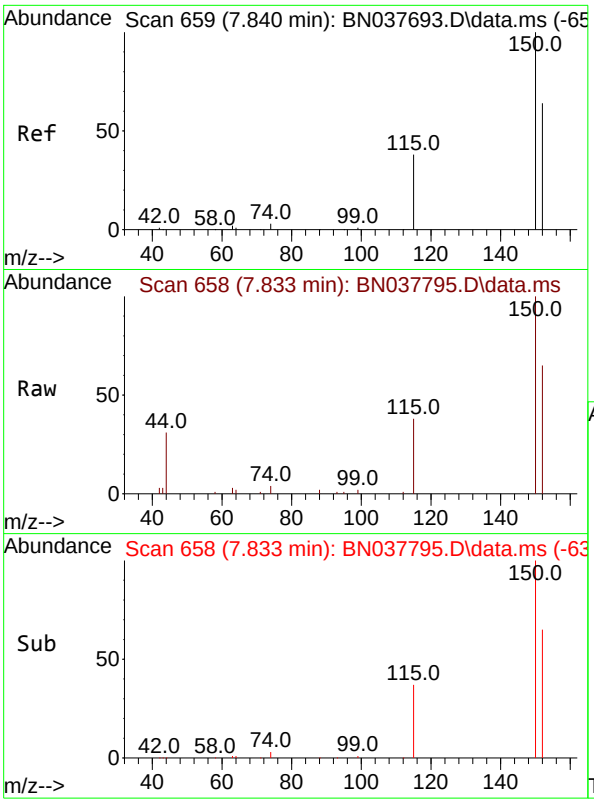
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037795.D
Acq On : 19 Sep 2025 02:47
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



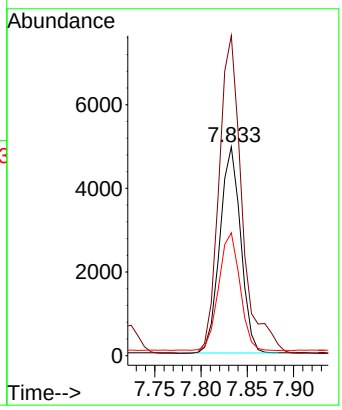


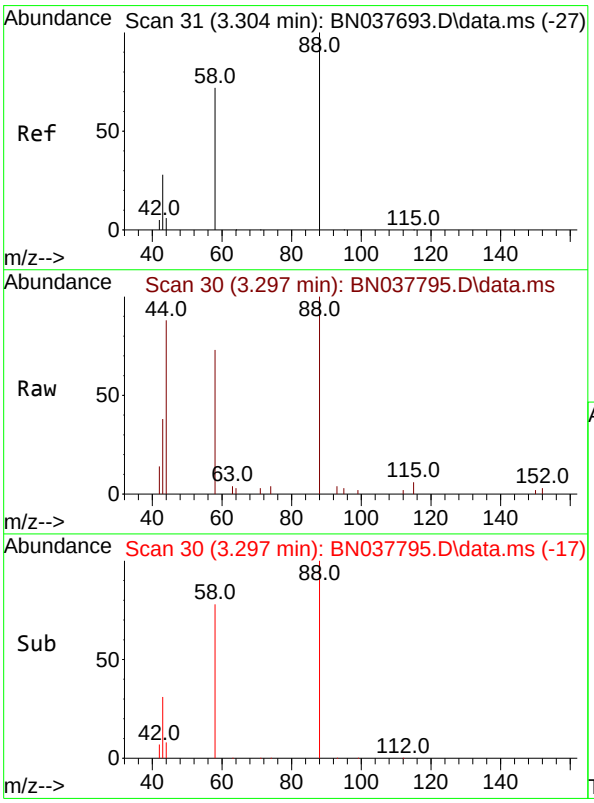
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 7724

Ion	Ratio	Lower	Upper
152	100		
150	153.2	124.5	186.7
115	58.8	49.2	73.8

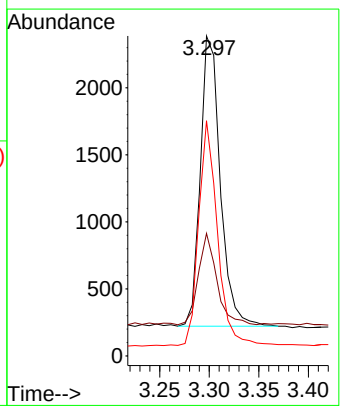


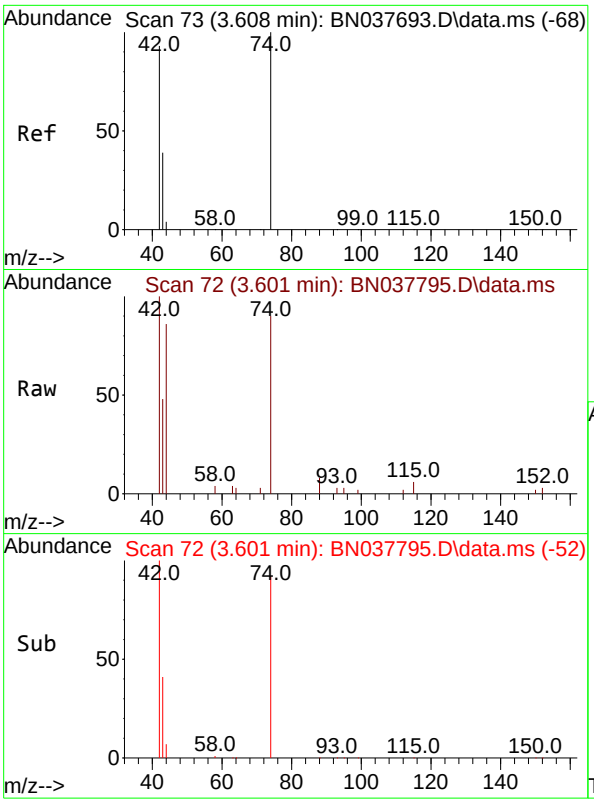


#2
1,4-Dioxane
Concen: 0.376 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion: 88 Resp: 3022

Ion	Ratio	Lower	Upper
88	100		
43	29.0	26.8	40.2
58	73.9	61.9	92.9



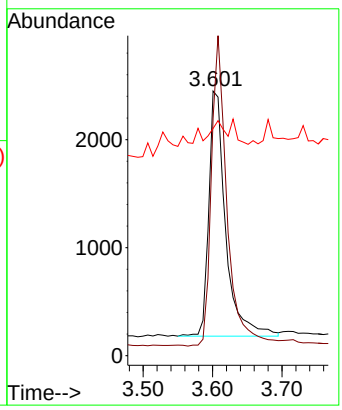


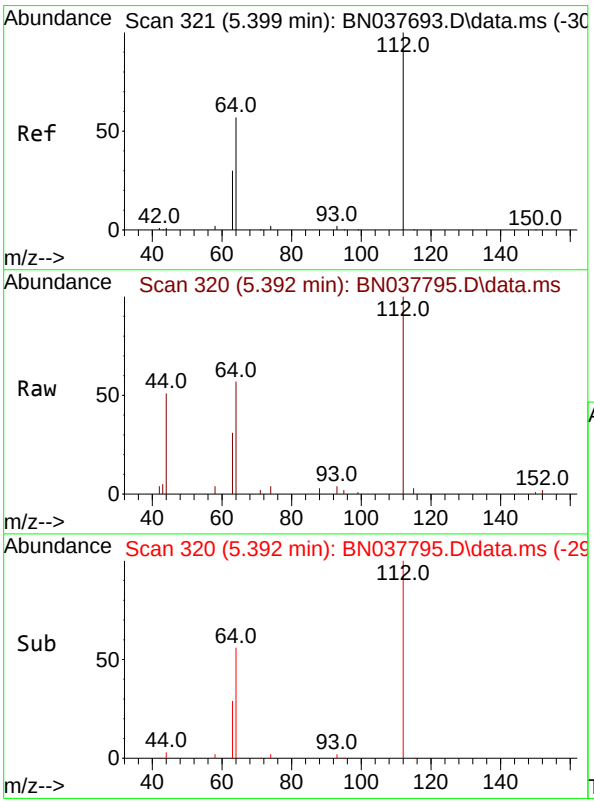
#3
n-Nitrosodimethylamine
Concen: 0.365 ng
RT: 3.601 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 3835

Ion	Ratio	Lower	Upper
42	100		
74	117.9	86.0	129.0
44	5.8	8.4	12.6#

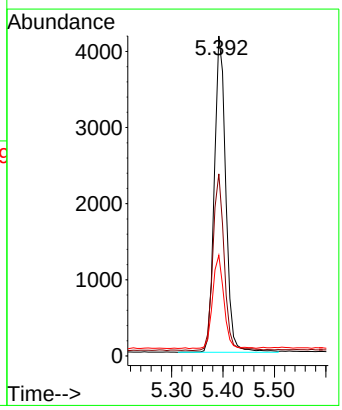


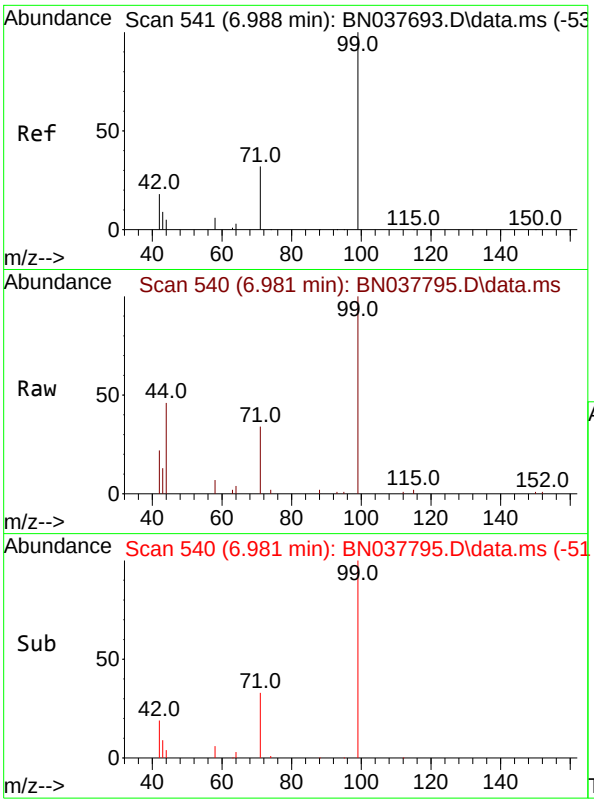


#4
2-Fluorophenol
Concen: 0.362 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:112 Resp: 6414

Ion	Ratio	Lower	Upper
112	100		
64	55.5	44.9	67.3
63	28.9	24.7	37.1



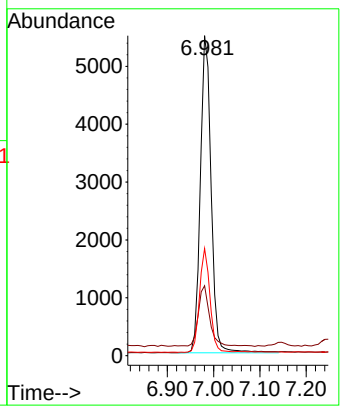


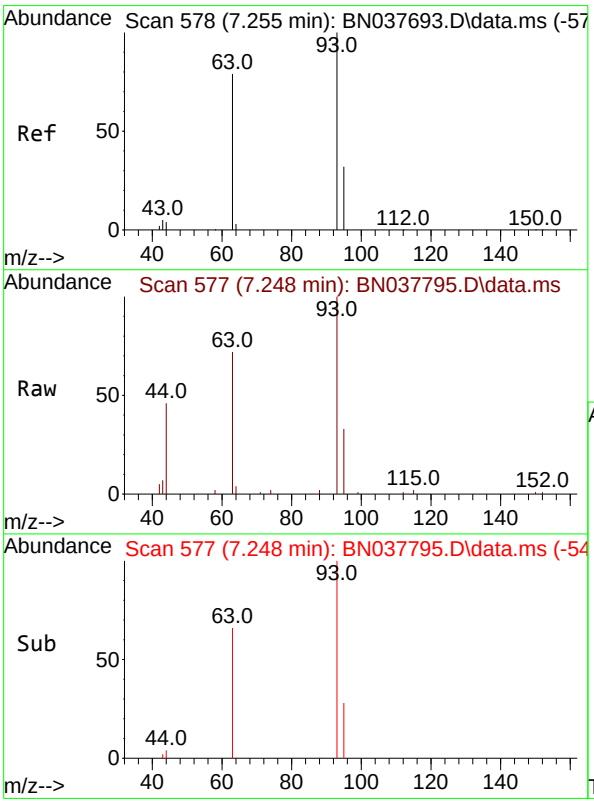
#5
Phenol-d6
Concen: 0.387 ng
RT: 6.981 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 8898

Ion	Ratio	Lower	Upper
99	100		
42	20.3	16.6	24.8
71	31.9	26.7	40.1

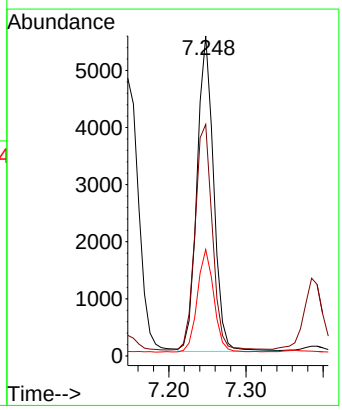


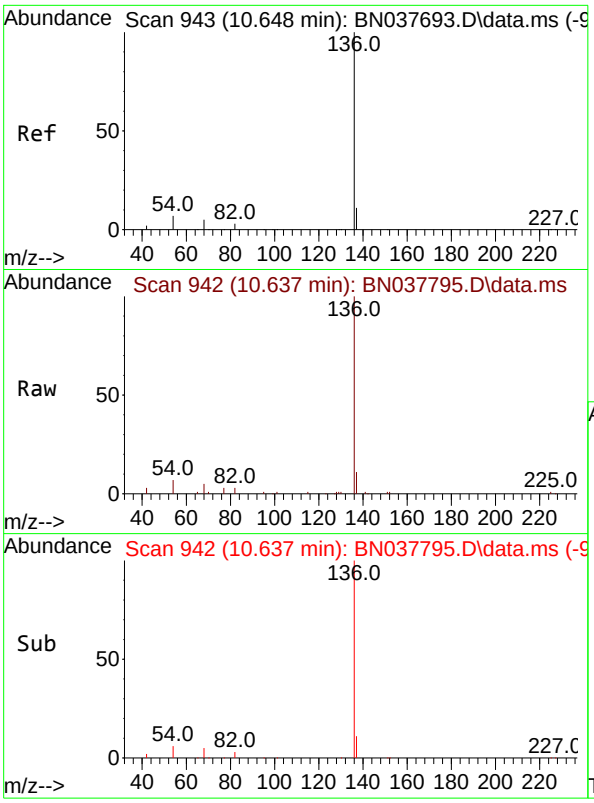


#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion: 93 Resp: 8278

Ion	Ratio	Lower	Upper
93	100		
63	74.3	60.6	90.8
95	32.5	26.0	39.0



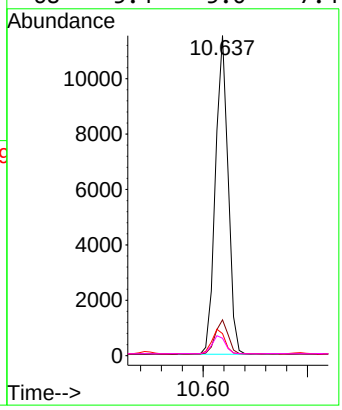


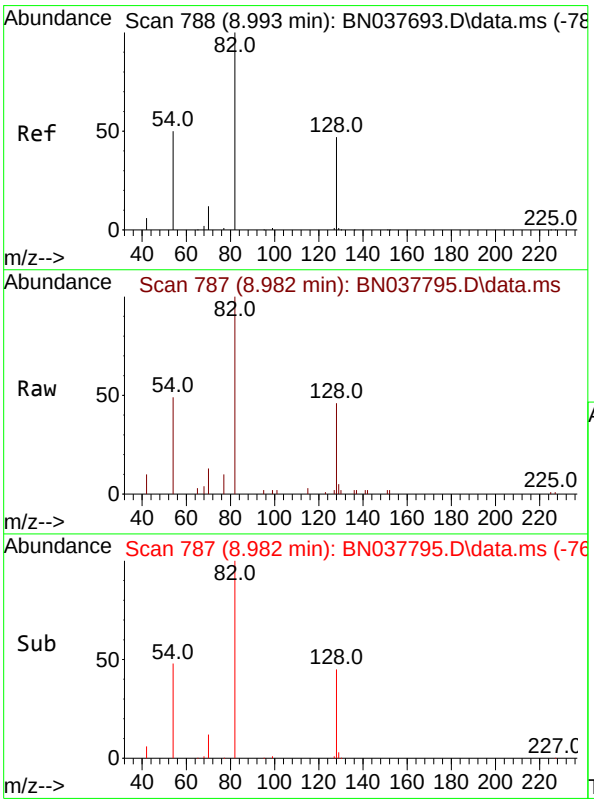
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 19361

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.9	6.3	9.5
68	5.4	5.0	7.4

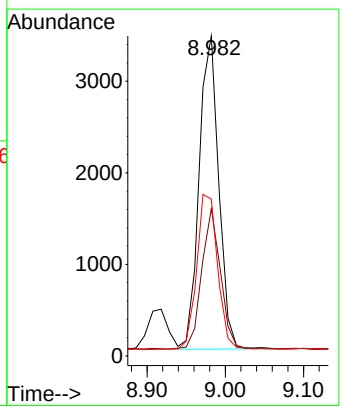


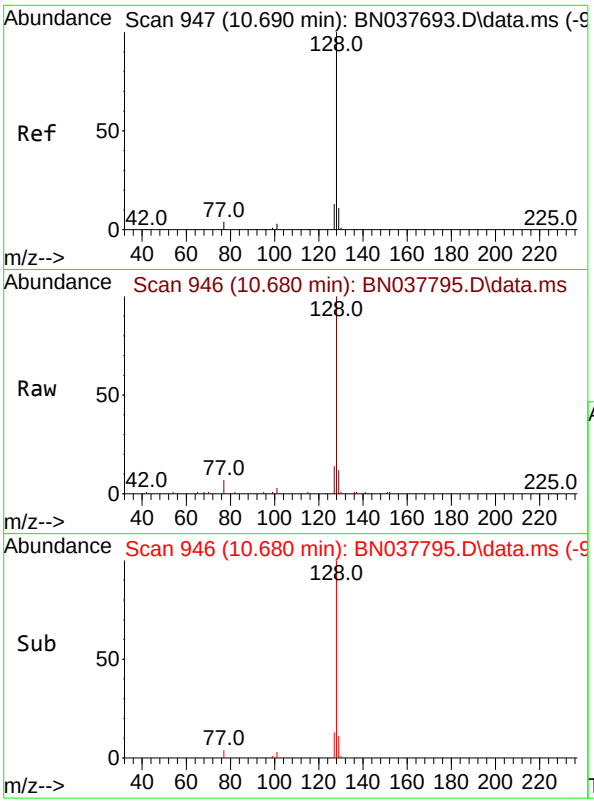


#8
Nitrobenzene-d5
Concen: 0.421 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion: 82 Resp: 5961

Ion	Ratio	Lower	Upper
82	100		
128	46.0	38.3	57.5
54	49.1	41.4	62.2



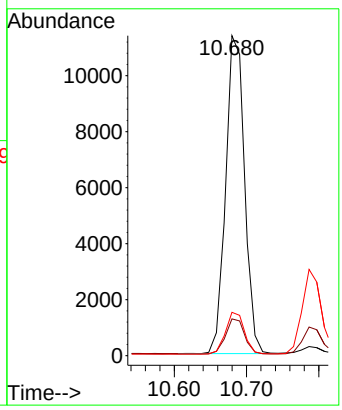


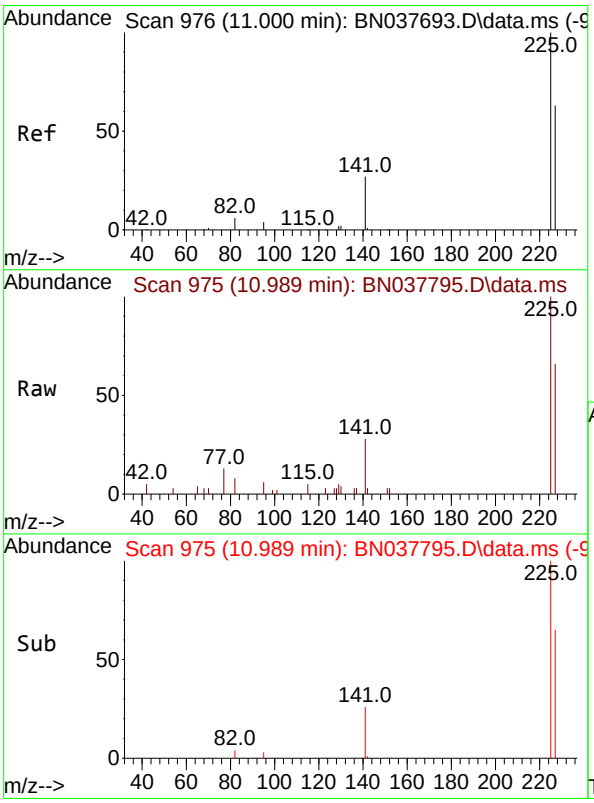
#9
Naphthalene
Concen: 0.390 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 20623

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.1	13.7
127	13.6	10.9	16.3

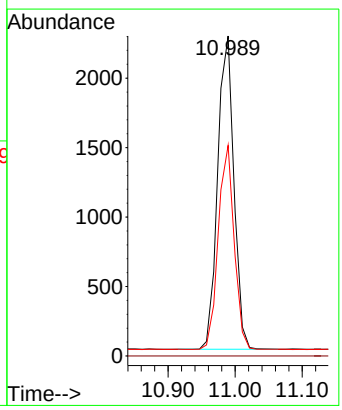


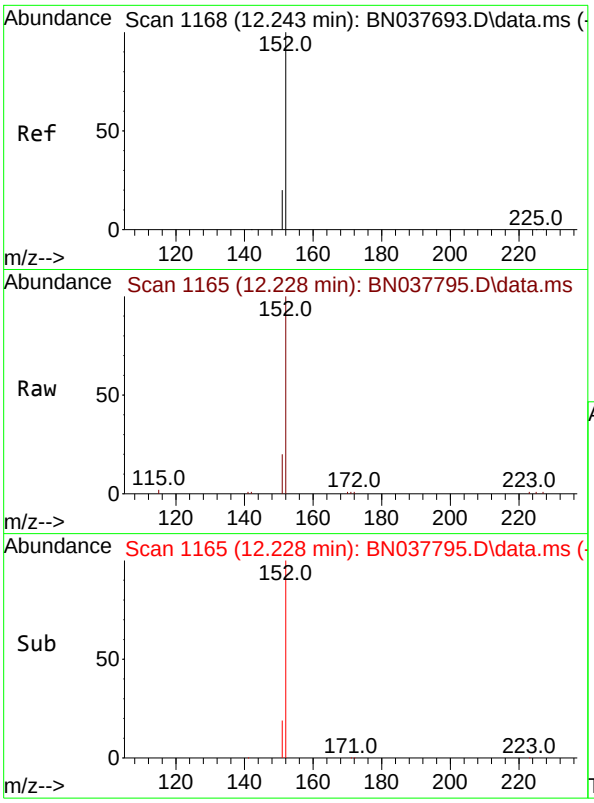


#10
Hexachlorobutadiene
Concen: 0.396 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:225 Resp: 3796

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	50.9	76.3



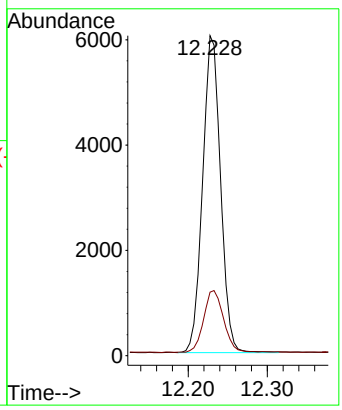


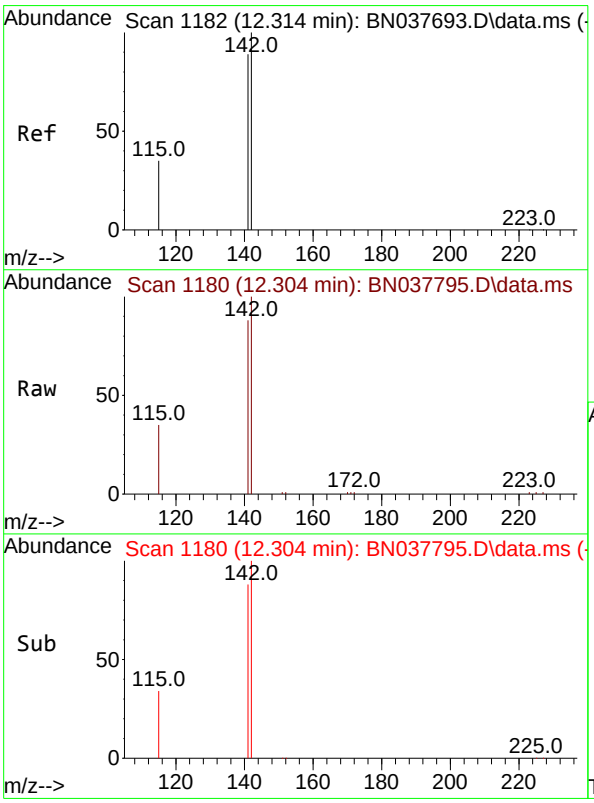
#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 12.228 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 9493

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.0	25.6

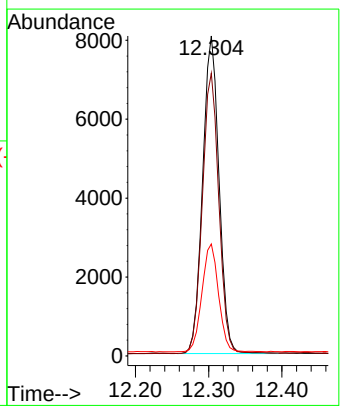


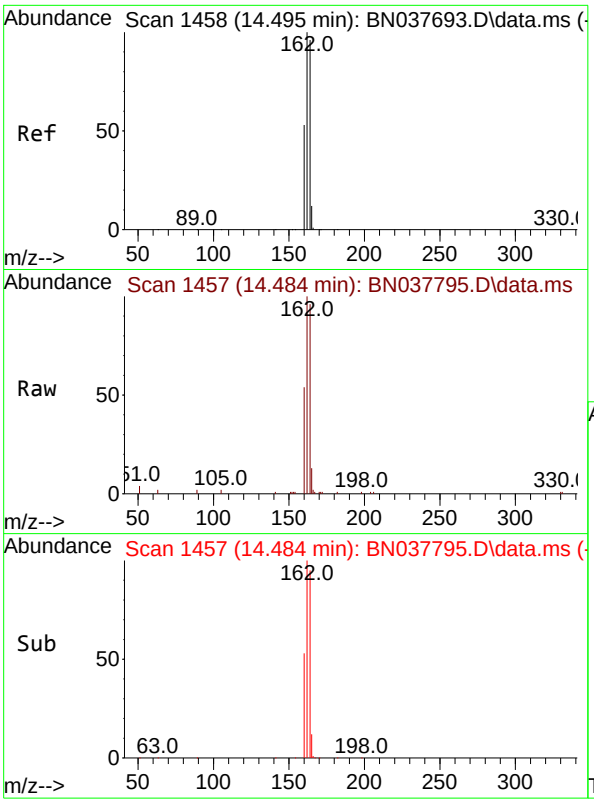


#12
2-Methylnaphthalene
Concen: 0.383 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:142 Resp: 12533

Ion	Ratio	Lower	Upper
142	100		
141	88.4	71.6	107.4
115	35.0	28.6	43.0



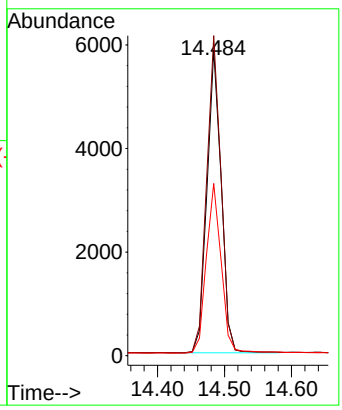


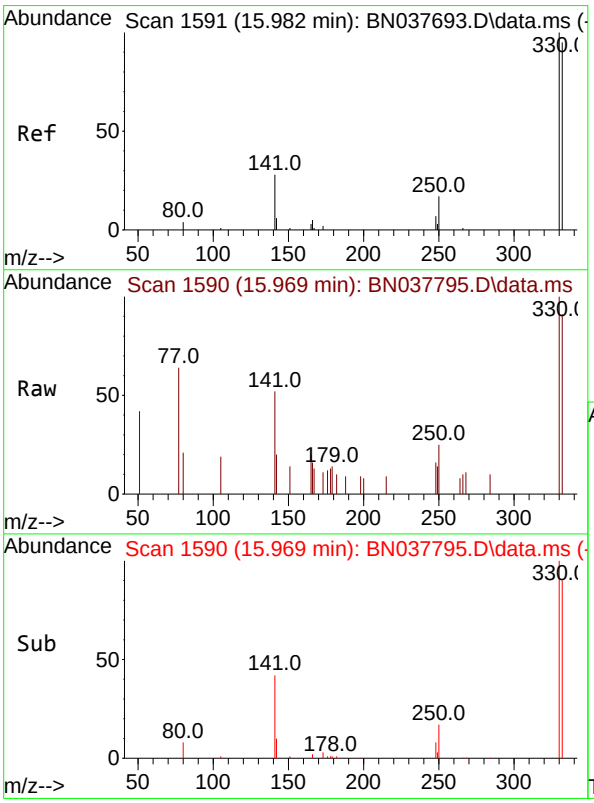
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 8621

Ion	Ratio	Lower	Upper
164	100		
162	104.7	83.1	124.7
160	56.3	44.3	66.5

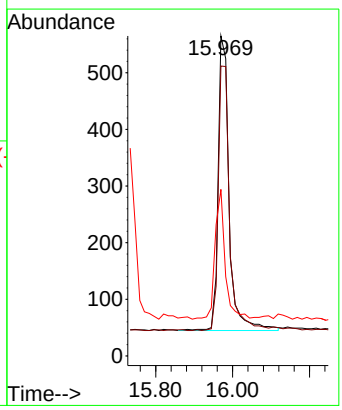


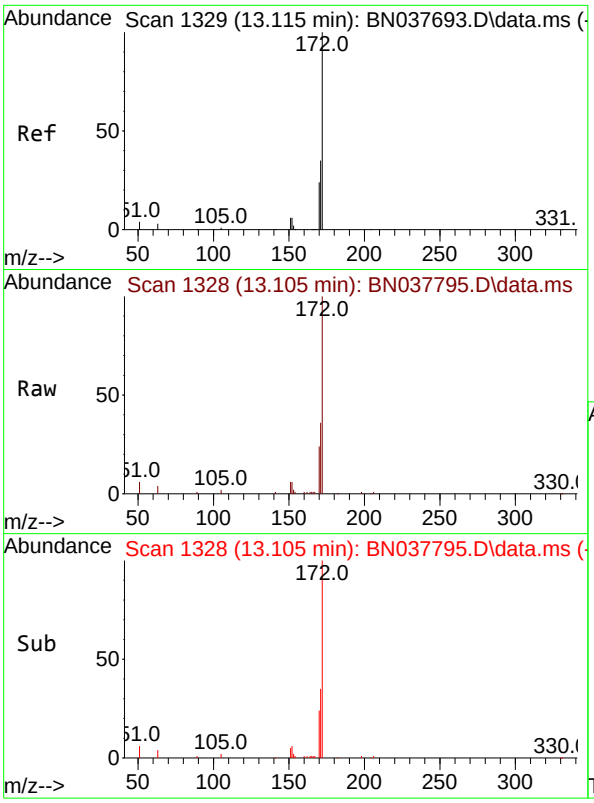


#14
2,4,6-Tribromophenol
Concen: 0.460 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:330 Resp: 1034

Ion	Ratio	Lower	Upper
330	100		
332	92.1	75.3	112.9
141	40.2	35.0	52.4



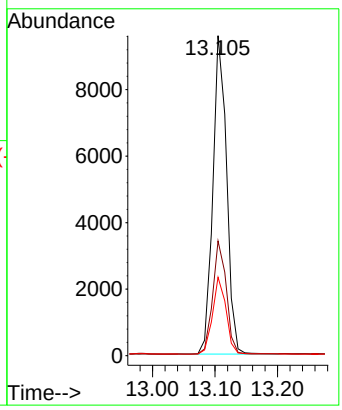


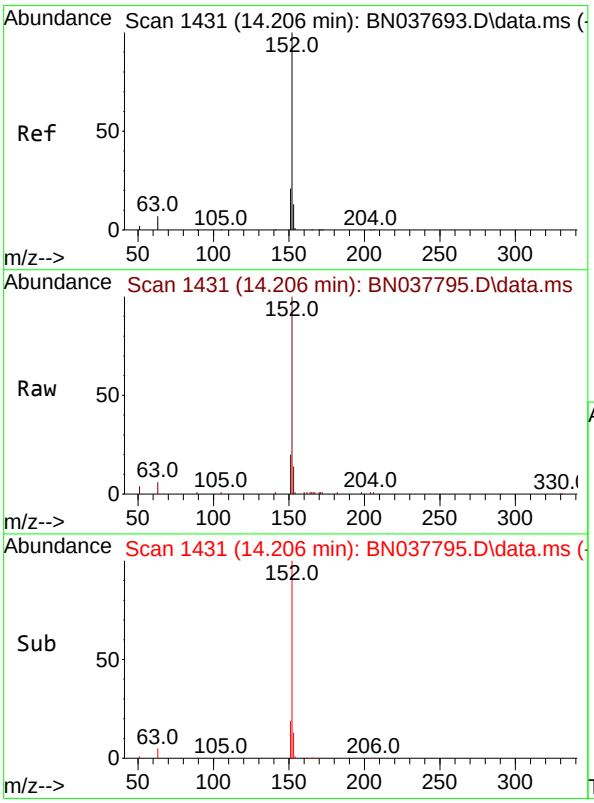
#15
2-Fluorobiphenyl
Concen: 0.406 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 14625

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	24.5	19.8	29.8

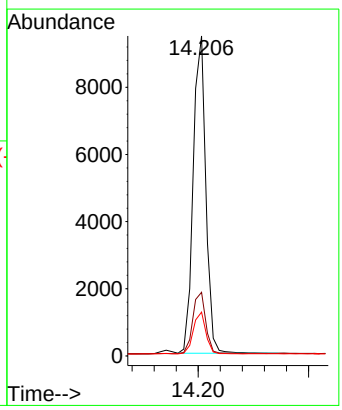


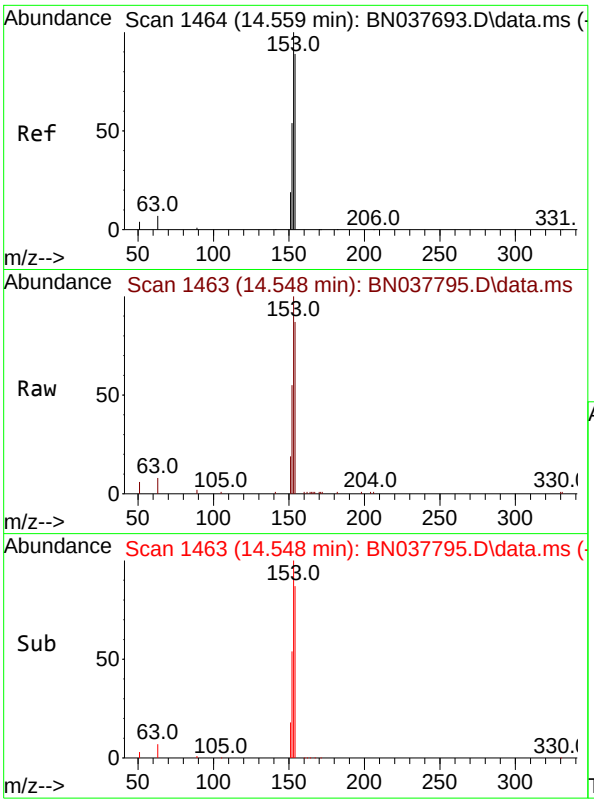


#16
Acenaphthylene
Concen: 0.379 ng
RT: 14.206 min Scan# 1431
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:152 Resp: 14987

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.0	10.4	15.6



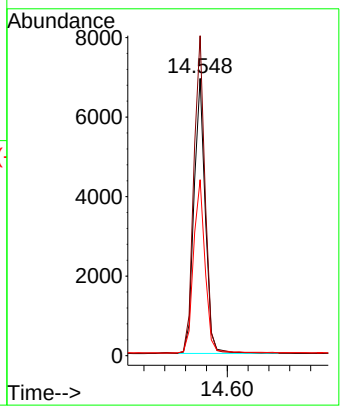


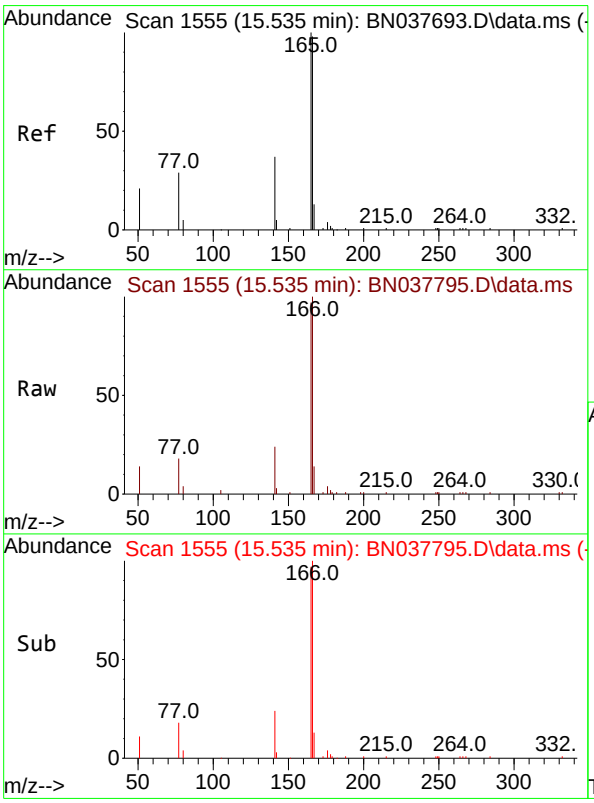
#17
Acenaphthene
Concen: 0.389 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 10387

Ion	Ratio	Lower	Upper
154	100		
153	115.4	89.8	134.8
152	65.2	50.2	75.2

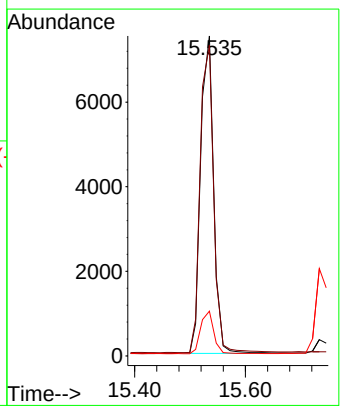


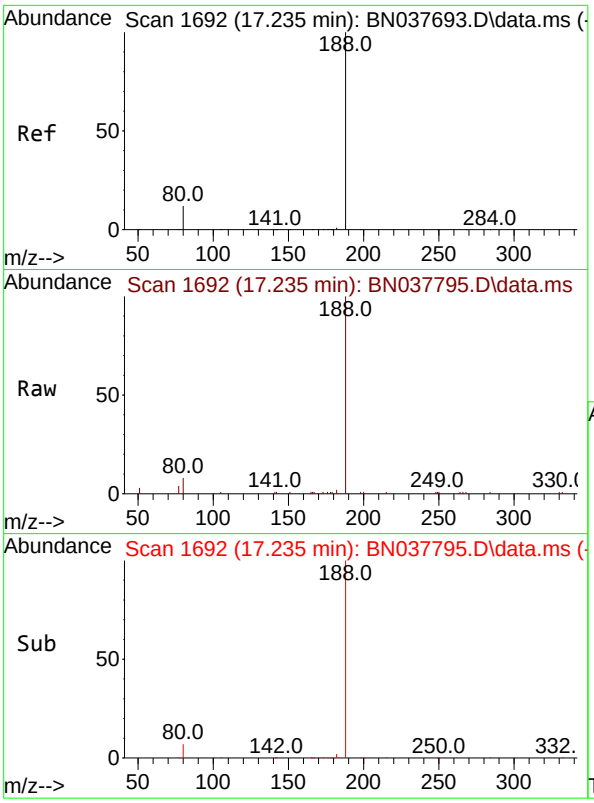


#18
Fluorene
Concen: 0.369 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:166 Resp: 11958

Ion	Ratio	Lower	Upper
166	100		
165	100.3	79.6	119.4
167	13.3	10.6	16.0



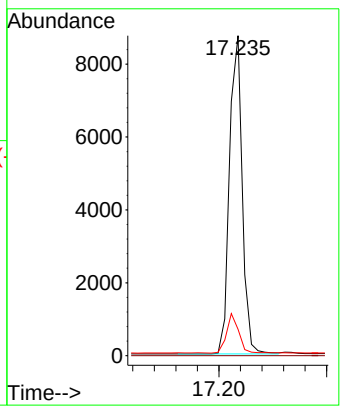


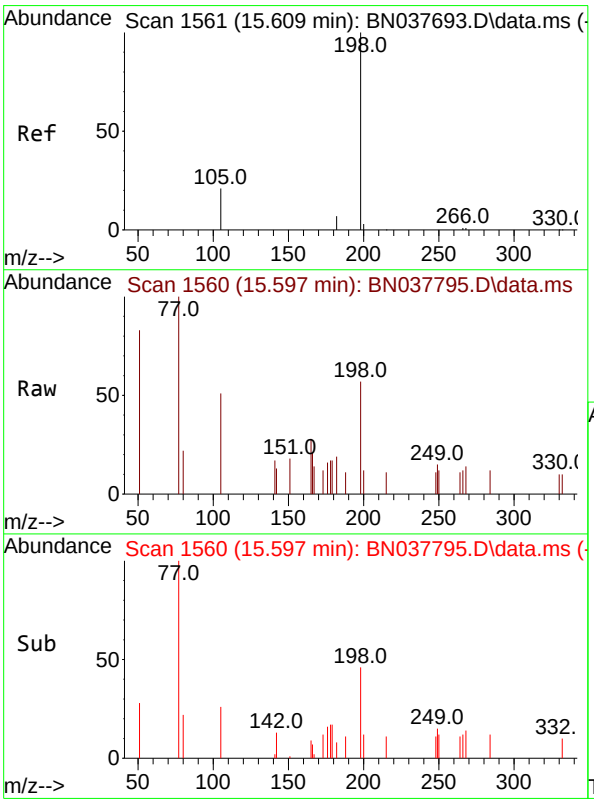
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 14380

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.3	10.6	15.8#

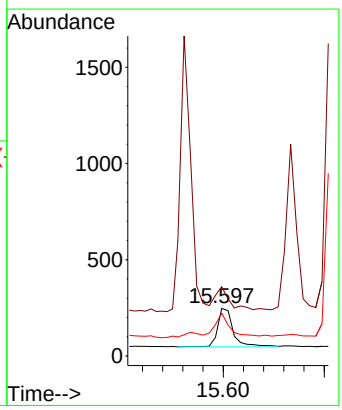


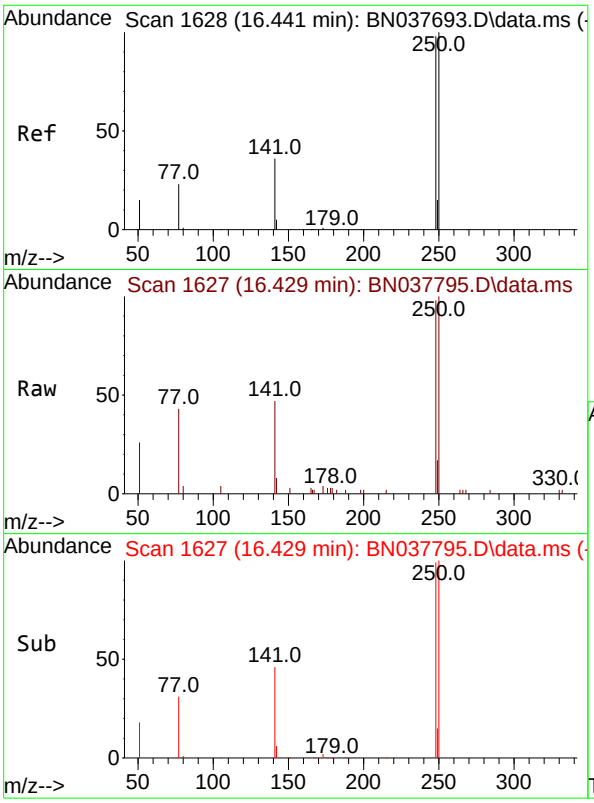


#20
4,6-Dinitro-2-methylphenol
Concen: 0.323 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:198 Resp: 430

Ion	Ratio	Lower	Upper
198	100		
51	145.7	95.1	142.7#
105	89.9	53.8	80.6#



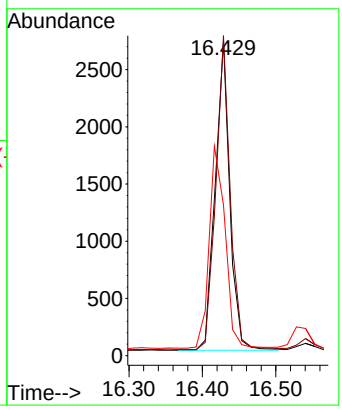


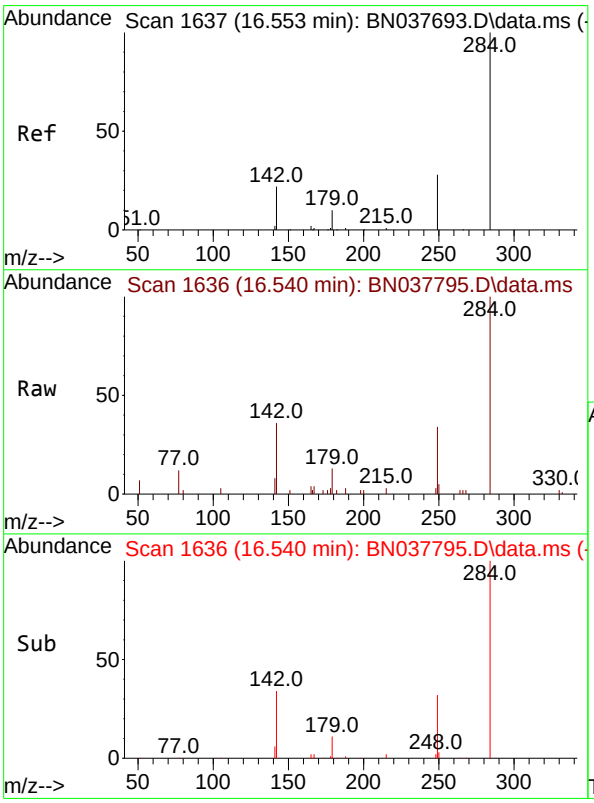
#21
4-Bromophenyl-phenylether
Concen: 0.397 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 3726

Ion	Ratio	Lower	Upper
248	100		
250	101.6	81.5	122.3
141	47.8	30.8	46.2#

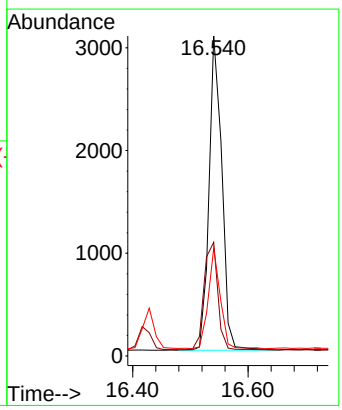


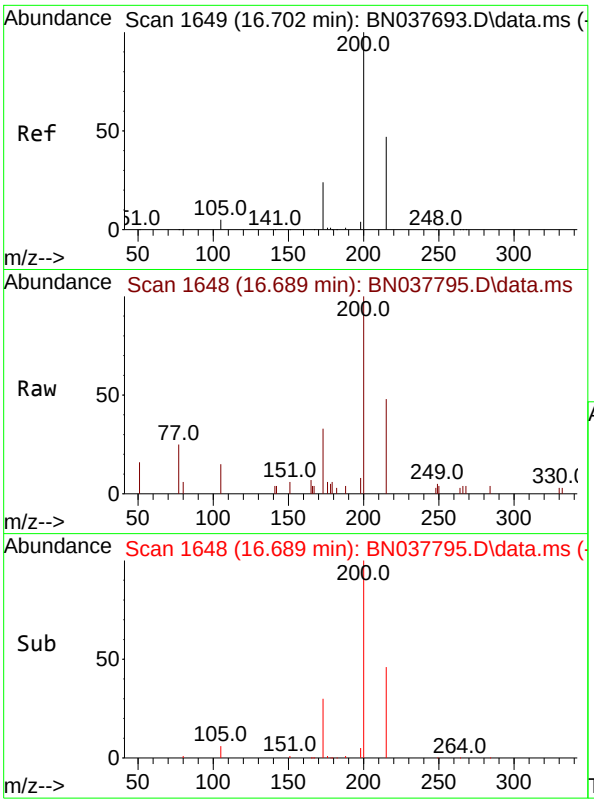


#22
Hexachlorobenzene
Concen: 0.435 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:284 Resp: 4695

Ion	Ratio	Lower	Upper
284	100		
142	37.2	30.9	46.3
249	30.1	24.8	37.2



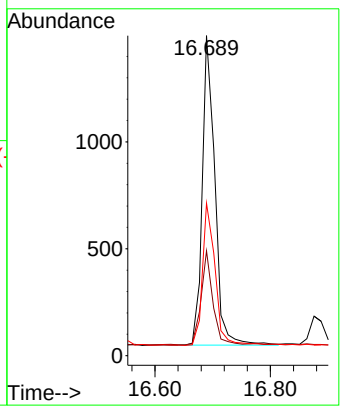


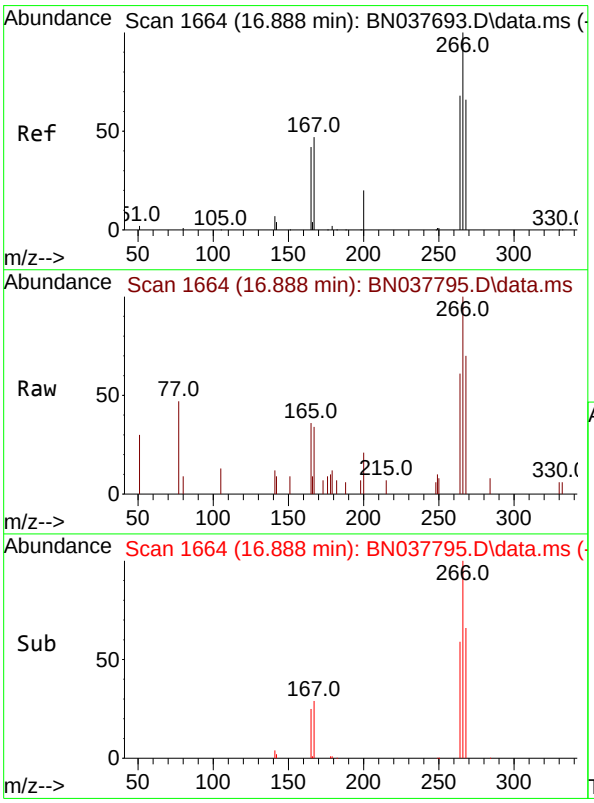
#23
Atrazine
Concen: 0.368 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 2195

Ion	Ratio	Lower	Upper
200	100		
173	32.7	21.4	32.2#
215	47.6	39.2	58.8

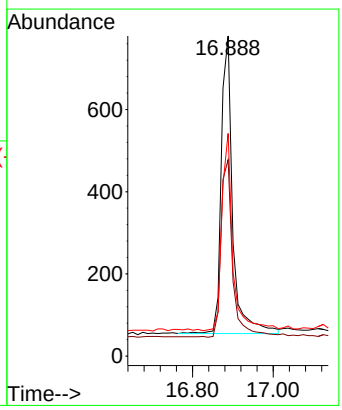


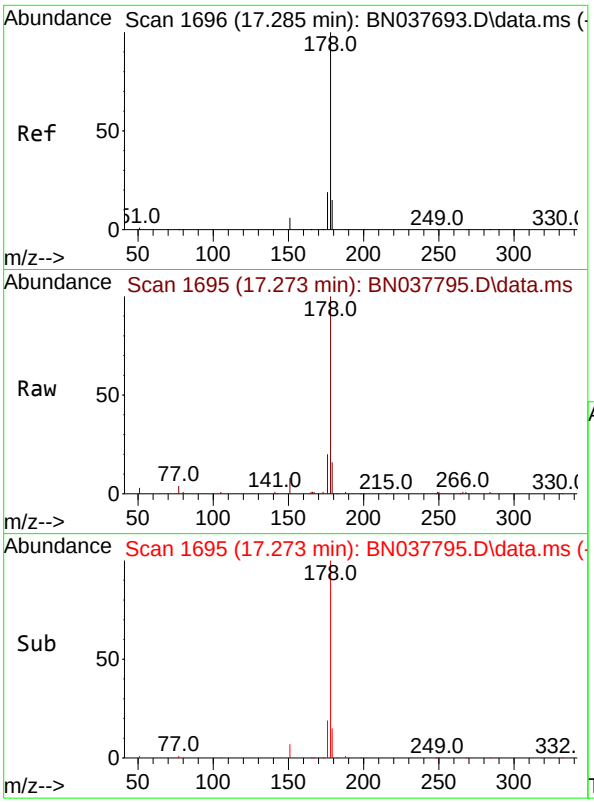


#24
Pentachlorophenol
Concen: 0.452 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:266 Resp: 1416

Ion	Ratio	Lower	Upper
266	100		
264	61.1	51.6	77.4
268	64.3	53.2	79.8



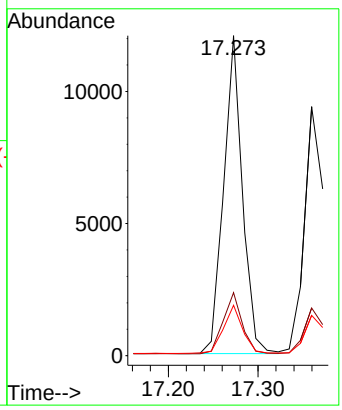


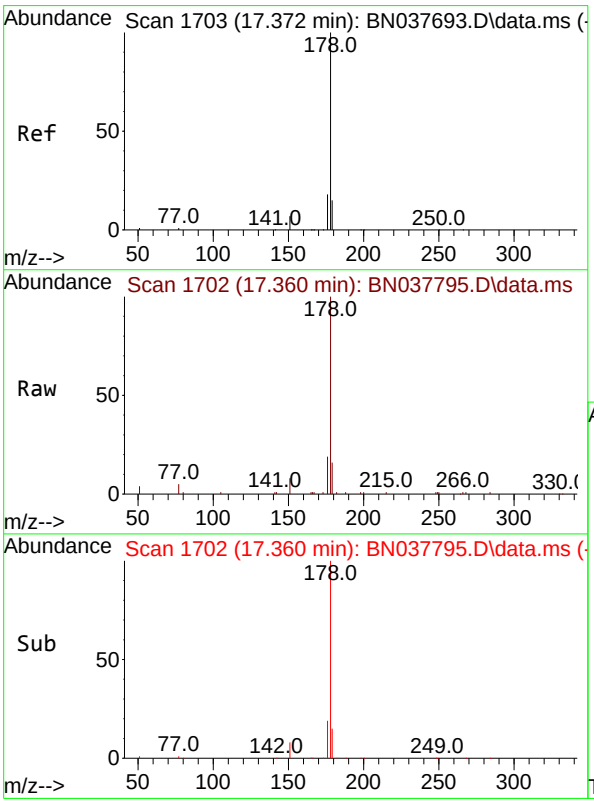
#25
Phenanthrene
Concen: 0.387 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 17514

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.6	12.2	18.2

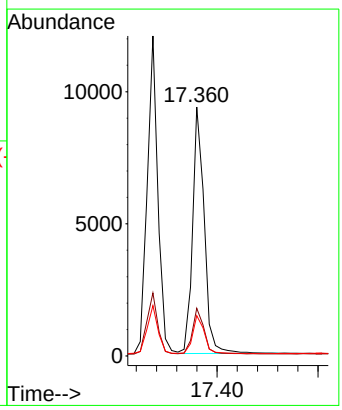


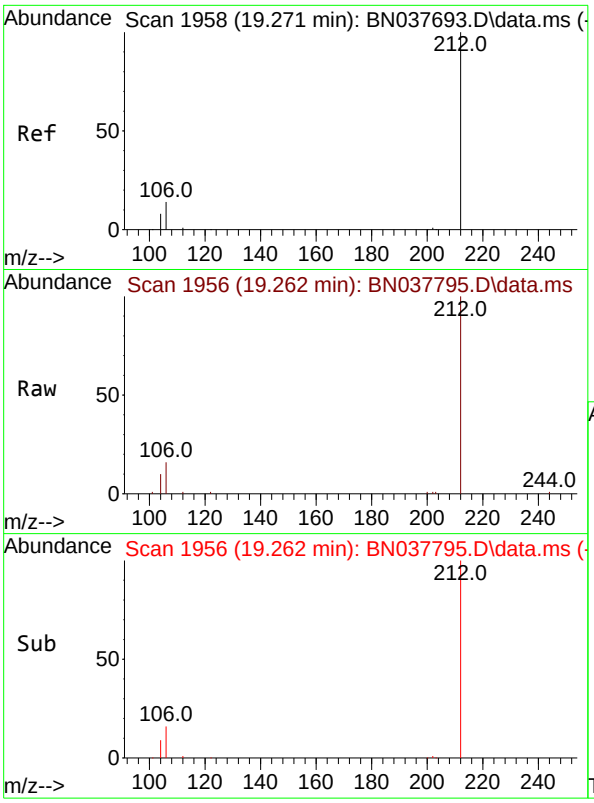


#26
Anthracene
Concen: 0.374 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:178 Resp: 14982

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	22.0
179	15.3	12.2	18.4



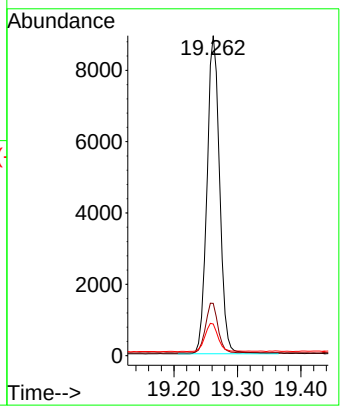


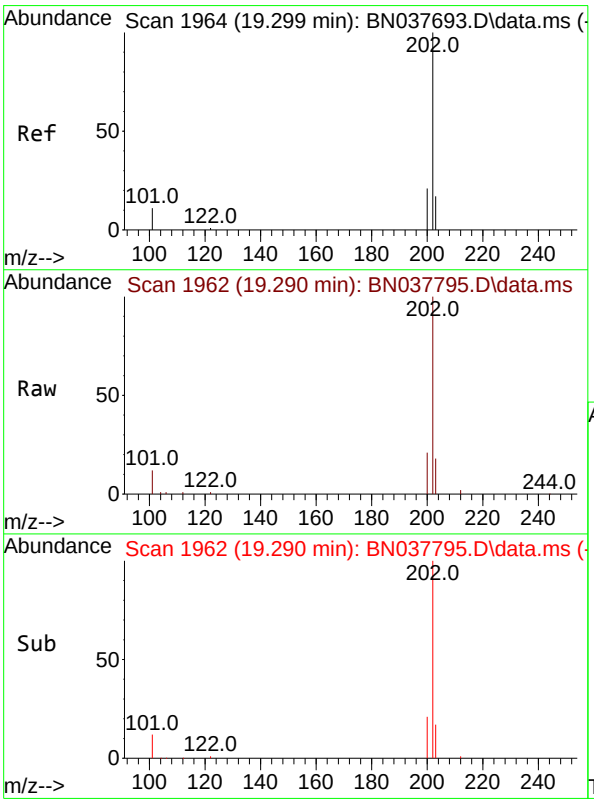
#27
Fluoranthene-d10
Concen: 0.342 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 12337

Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.2	18.2
104	9.0	6.9	10.3

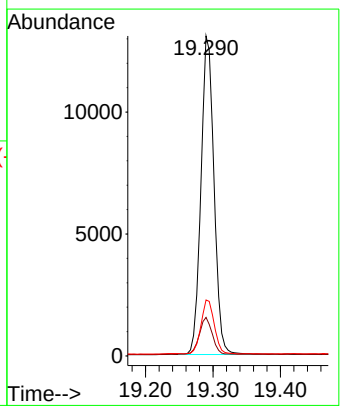


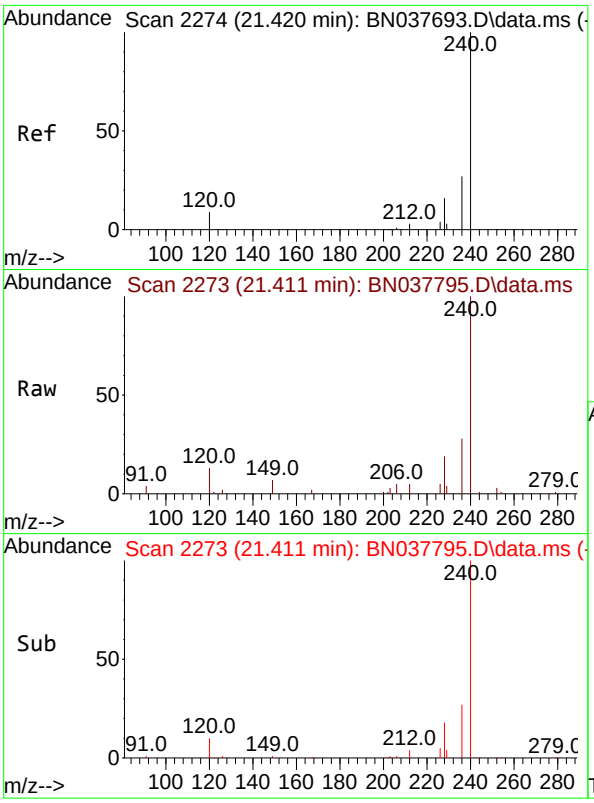


#28
Fluoranthene
Concen: 0.353 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:202 Resp: 17532

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	17.1	13.7	20.5



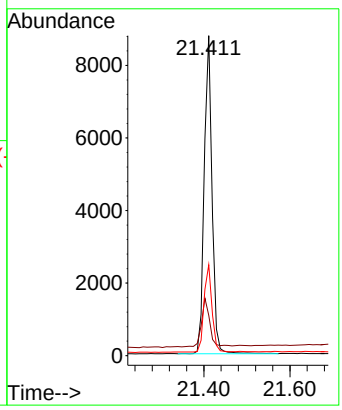


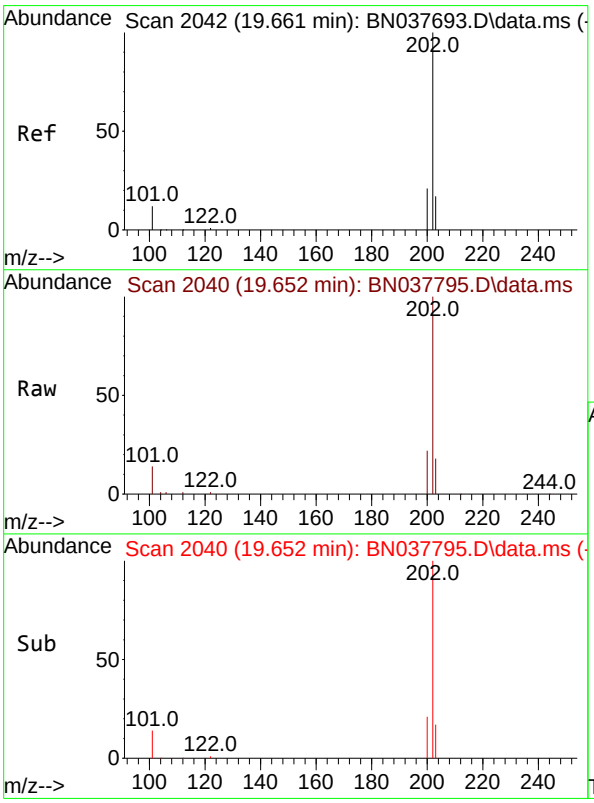
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 11169

Ion	Ratio	Lower	Upper
240	100		
120	12.6	9.2	13.8
236	28.4	22.6	33.8

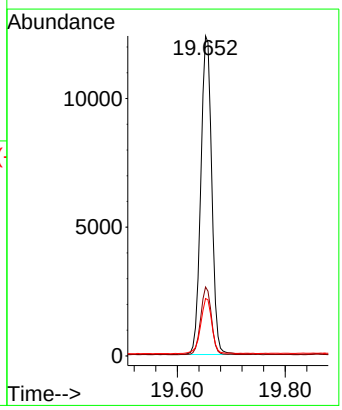


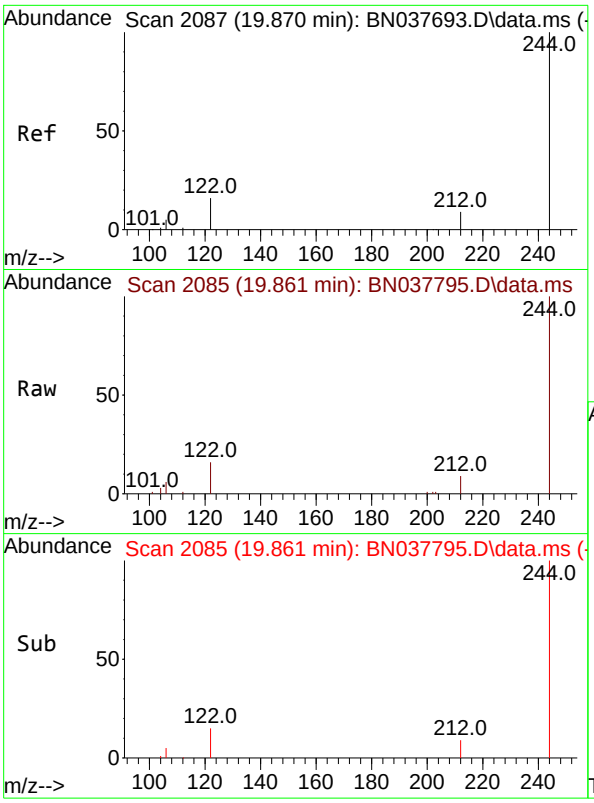


#30
Pyrene
Concen: 0.399 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:202 Resp: 17441

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.6	14.3	21.5



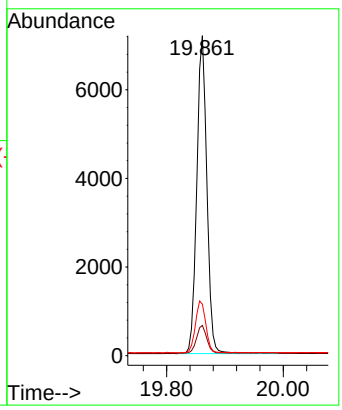


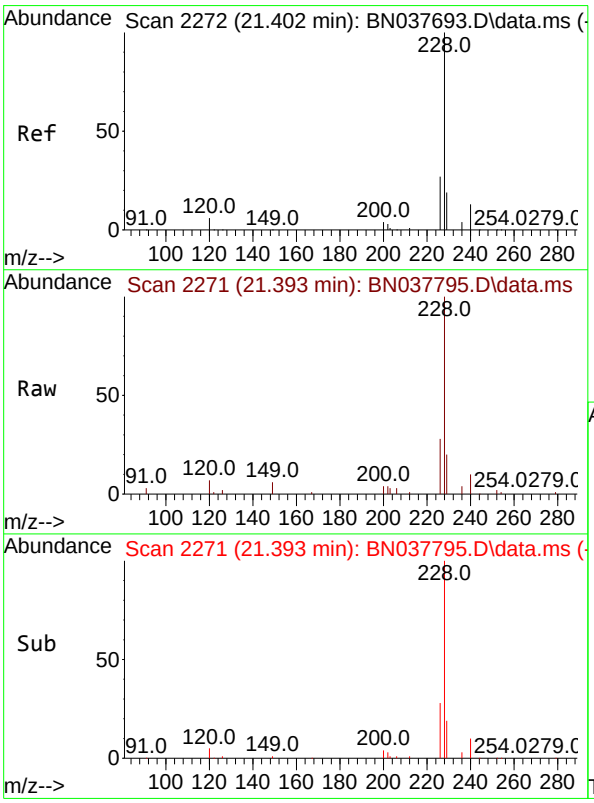
#31
Terphenyl-d14
Concen: 0.380 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 8607

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	16.1	13.2	19.8

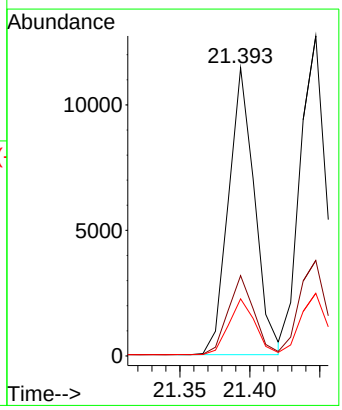


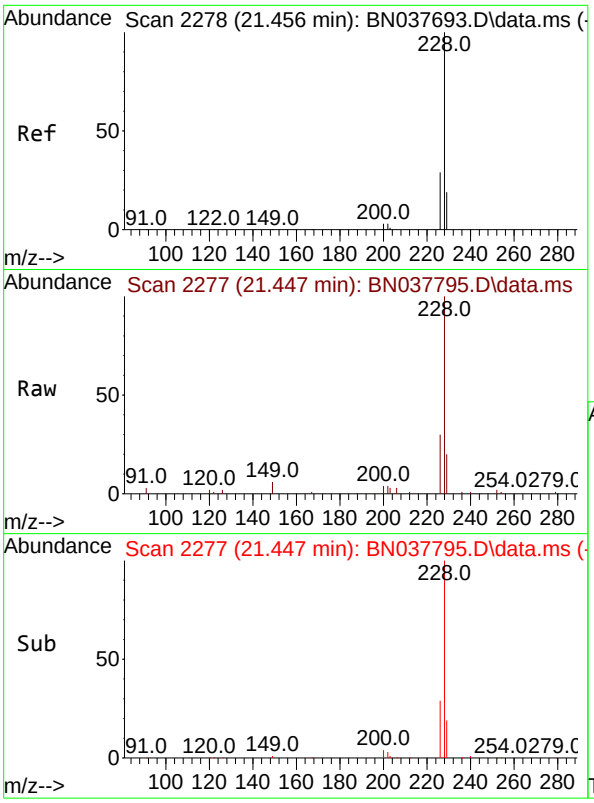


#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:228 Resp: 14838

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.2
229	19.8	15.8	23.6



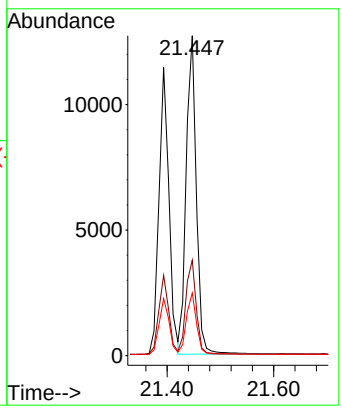


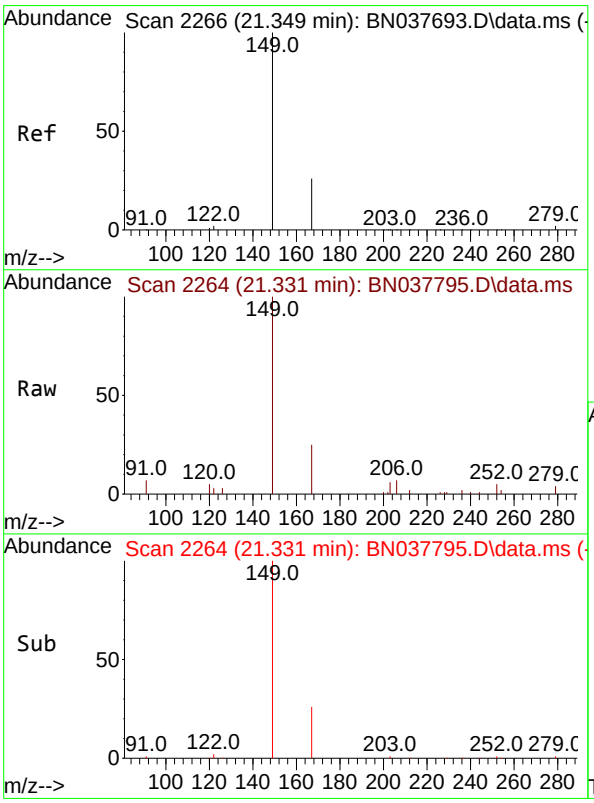
#33
Chrysene
Concen: 0.401 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 16770

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.5	35.3
229	19.6	15.9	23.9

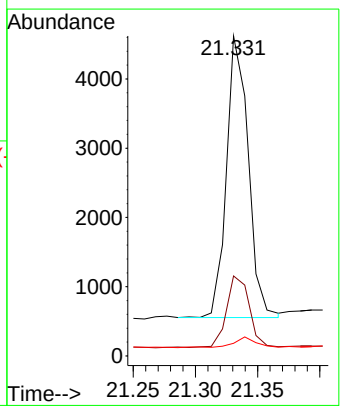


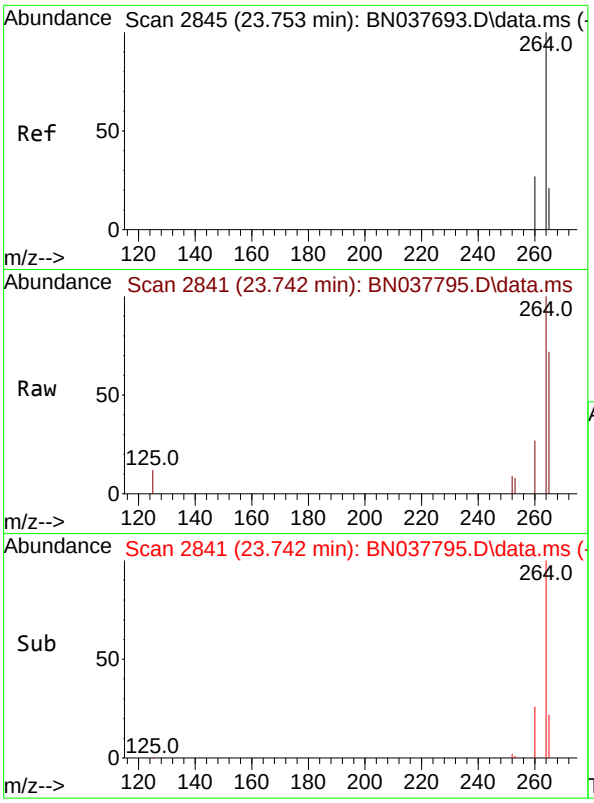


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.428 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:149 Resp: 4946

Ion	Ratio	Lower	Upper
149	100		
167	26.7	20.8	31.2
279	4.1	3.3	4.9



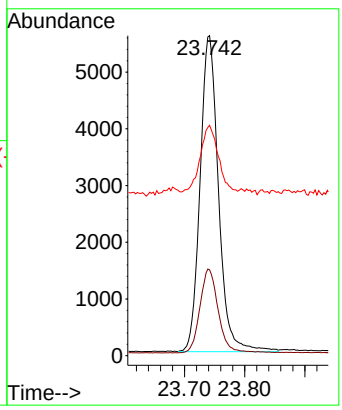


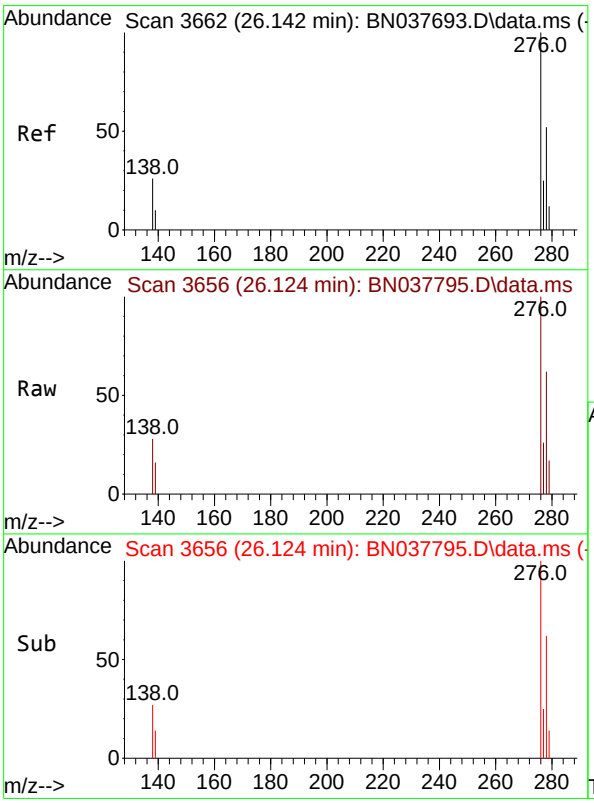
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.742 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 11840

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.8	32.8
265	72.0	39.4	59.2#

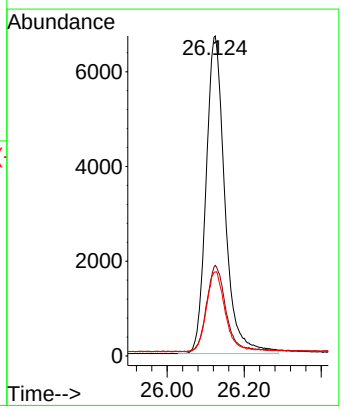


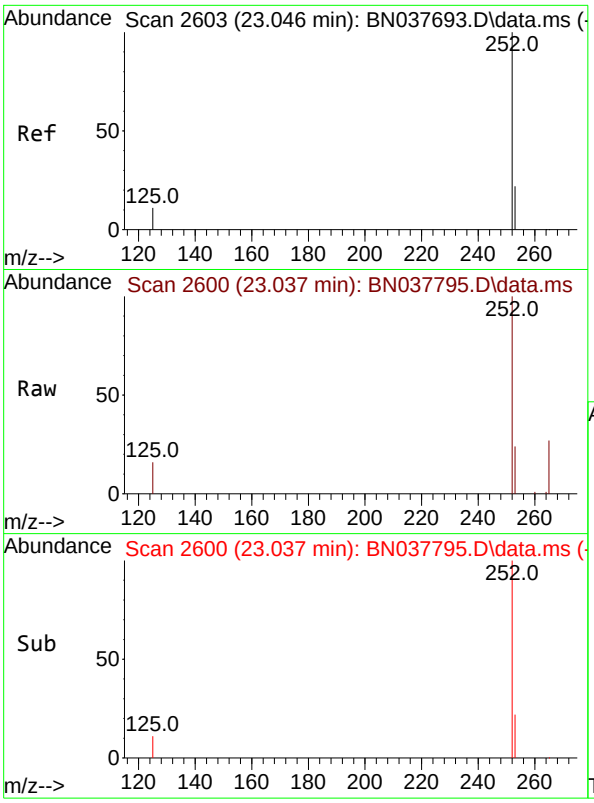


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.457 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:276 Resp: 22723

Ion	Ratio	Lower	Upper
276	100		
138	27.5	21.9	32.9
277	24.7	20.1	30.1



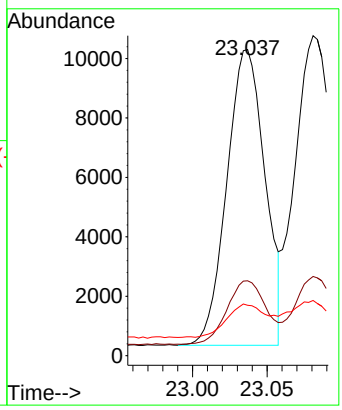


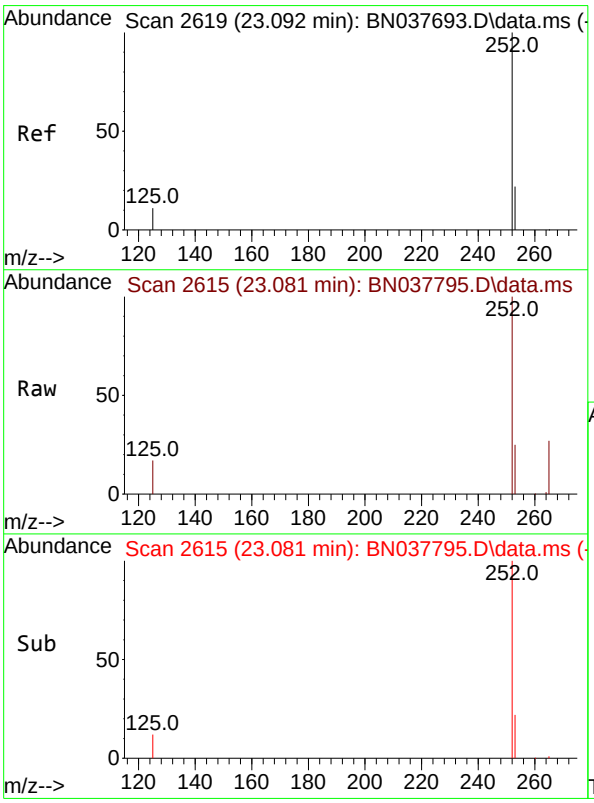
#37
Benzo(b)fluoranthene
Concen: 0.380 ng
RT: 23.037 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 17698

Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.4	29.2
125	16.5	11.2	16.8

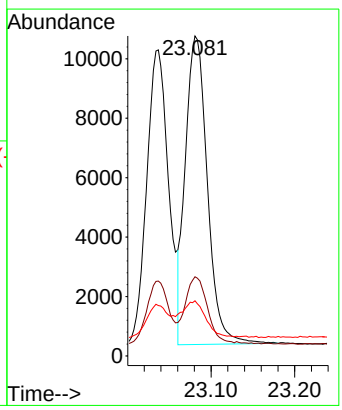


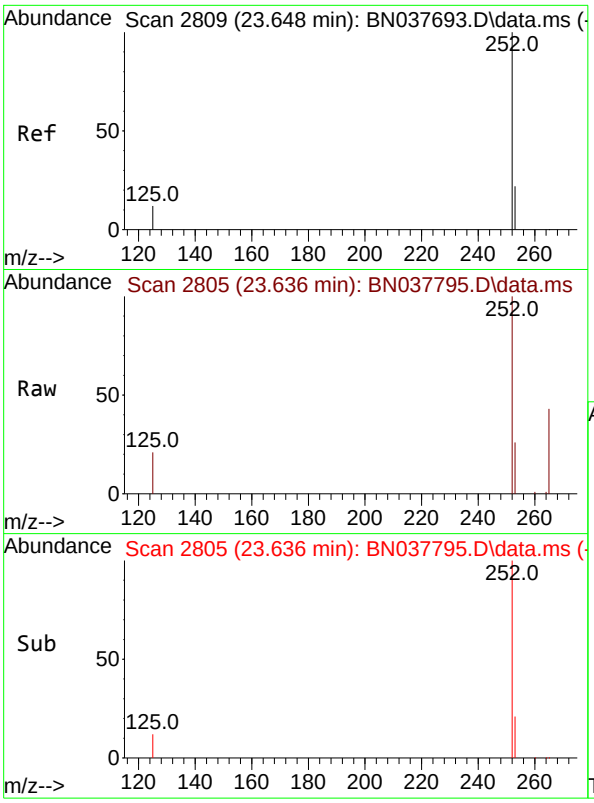


#38
Benzo(k)fluoranthene
Concen: 0.399 ng
RT: 23.081 min Scan# 2615
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:252 Resp: 18956

Ion	Ratio	Lower	Upper
252	100		
253	24.7	19.4	29.0
125	17.3	11.6	17.4



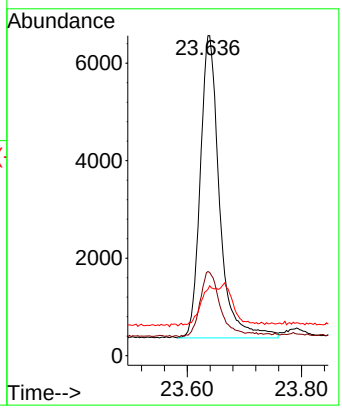


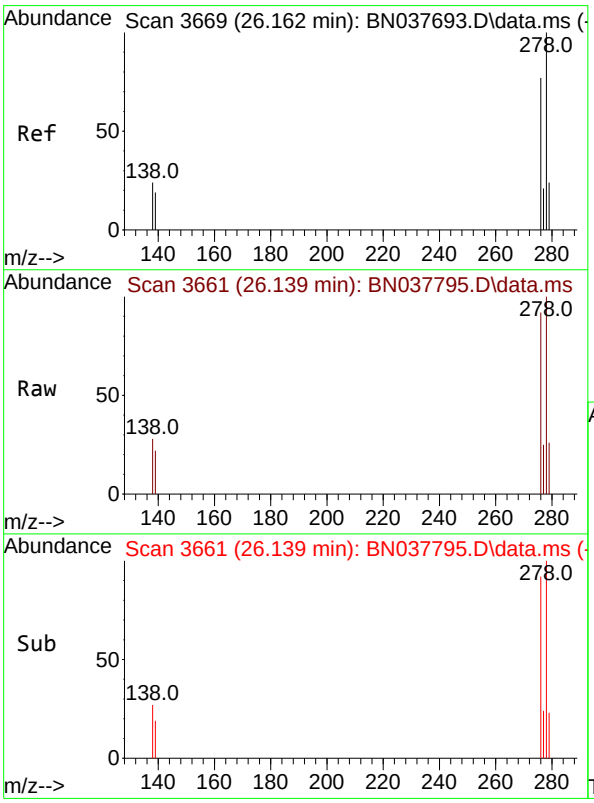
#39
Benzo(a)pyrene
Concen: 0.388 ng
RT: 23.636 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 14490

Ion	Ratio	Lower	Upper
252	100		
253	26.3	20.8	31.2
125	20.7	13.9	20.9

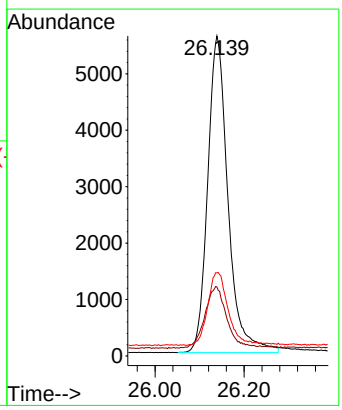


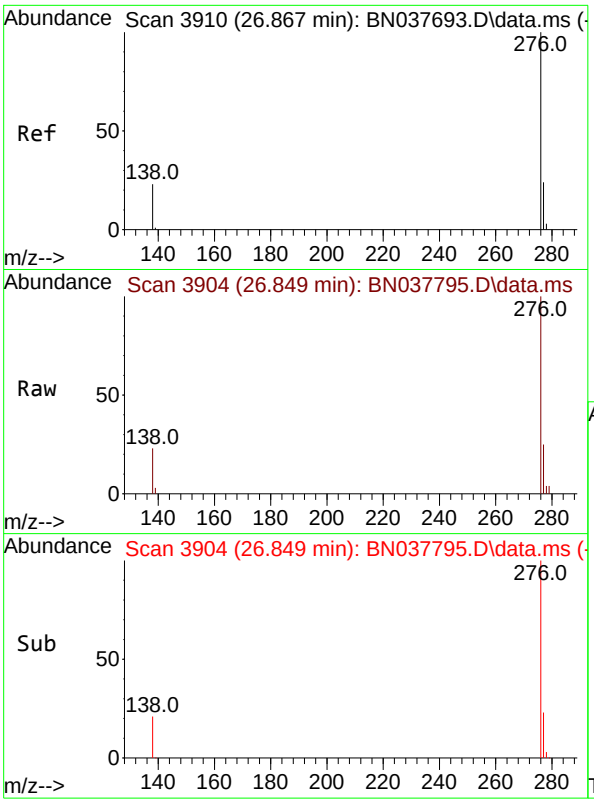


#40
Dibenzo(a,h)anthracene
Concen: 0.448 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.023 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:278 Resp: 17796

Ion	Ratio	Lower	Upper
278	100		
139	21.5	17.8	26.6
279	26.0	22.0	33.0



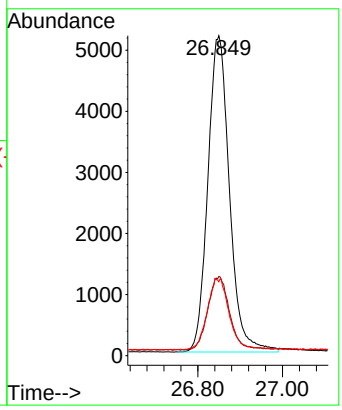


#41
Benzo(g,h,i)perylene
Concen: 0.412 ng
RT: 26.849 min Scan# 3
Delta R.T. -0.018 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 18357

Ion	Ratio	Lower	Upper
276	100		
277	24.8	20.6	31.0
138	23.1	20.2	30.2



Sample Results: **BN037795.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037795.D
Acq On : 19 Sep 2025 02:47
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	155#	0.00
2		1,4-Dioxane	0.417	0.391	6.2	143	0.00
3		n-Nitrosodimethylamine	0.544	0.497	8.6	136	0.00
4	S	2-Fluorophenol	0.918	0.830	9.6	144	0.00
5	S	Phenol-d6	1.191	1.152	3.3	154#	0.00
6		bis(2-Chloroethyl)ether	1.064	1.072	-0.8	155#	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	146	-0.01
8	S	Nitrobenzene-d5	0.293	0.308	-5.1	158#	-0.01
9		Naphthalene	1.093	1.065	2.6	145	-0.01
10		Hexachlorobutadiene	0.198	0.196	1.0	145	-0.01
11	SURR	2-Methylnaphthalene-d10	0.530	0.490	7.5	144	-0.02
12		2-Methylnaphthalene	0.676	0.647	4.3	144	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	139	-0.01
14	S	2,4,6-Tribromophenol	0.104	0.120	-15.4	165#	-0.01
15	S	2-Fluorobiphenyl	1.673	1.696	-1.4	143	-0.01
16		Acenaphthylene	1.834	1.738	5.2	135	0.00
17		Acenaphthene	1.240	1.205	2.8	138	-0.01
18		Fluorene	1.502	1.387	7.7	134	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	128	0.00
20		4,6-Dinitro-2-methylphenol	0.037	0.030	18.9	116	-0.01
21		4-Bromophenyl-phenylether	0.261	0.259	0.8	132	-0.01
22		Hexachlorobenzene	0.300	0.326	-8.7	142	-0.01
23		Atrazine	0.166	0.153	7.8	129	-0.01
24		Pentachlorophenol	0.087	0.098	-12.6	169#	0.00
25		Phenanthrene	1.259	1.218	3.3	127	-0.01
26		Anthracene	1.116	1.042	6.6	124	-0.01
27	SURR	Fluoranthene-d10	1.004	0.858	14.5	117	0.00
28		Fluoranthene	1.381	1.219	11.7	119	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	119	0.00
30		Pyrene	1.566	1.562	0.3	120	0.00
31	S	Terphenyl-d14	0.812	0.771	5.0	115	0.00
32		Benzo(a)anthracene	1.395	1.328	4.8	118	0.00
33		Chrysene	1.496	1.501	-0.3	120	0.00
34		Bis(2-ethylhexyl)phthalate	0.414	0.443	-7.0	141	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	132	-0.01
36		Indeno(1,2,3-cd)pyrene	1.681	1.919	-14.2	164#	-0.02
37		Benzo(b)fluoranthene	1.575	1.495	5.1	127	0.00
38		Benzo(k)fluoranthene	1.606	1.601	0.3	139	-0.01
39	C	Benzo(a)pyrene	1.261	1.224	2.9	135	-0.01
40		Dibenzo(a,h)anthracene	1.342	1.503	-12.0	164#	-0.02
41		Benzo(g,h,i)perylene	1.506	1.550	-2.9	141	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Evaluate Continuing Calibration Report

Sample Results: **BN037795.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037795.D
Acq On : 19 Sep 2025 02:47
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	155	0.00
2		1,4-Dioxane	0.400	0.376	6.0	143	0.00
3		n-Nitrosodimethylamine	0.400	0.365	8.8	136	0.00
4	S	2-Fluorophenol	0.400	0.362	9.5	144	0.00
5	S	Phenol-d6	0.400	0.387	3.3	154	0.00
6		bis(2-Chloroethyl)ether	0.400	0.403	-0.8	155	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	146	-0.01
8	S	Nitrobenzene-d5	0.400	0.421	-5.2	158	-0.01
9		Naphthalene	0.400	0.390	2.5	145	-0.01
10		Hexachlorobutadiene	0.400	0.396	1.0	145	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.370	7.5	144	-0.02
12		2-Methylnaphthalene	0.400	0.383	4.3	144	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	139	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.460	-15.0	165	-0.01
15	S	2-Fluorobiphenyl	0.400	0.406	-1.5	143	-0.01
16		Acenaphthylene	0.400	0.379	5.3	135	0.00
17		Acenaphthene	0.400	0.389	2.8	138	-0.01
18		Fluorene	0.400	0.369	7.8	134	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	128	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.323	19.3	116	-0.01
21		4-Bromophenyl-phenylether	0.400	0.397	0.8	132	-0.01
22		Hexachlorobenzene	0.400	0.435	-8.7	142	-0.01
23		Atrazine	0.400	0.368	8.0	129	-0.01
24		Pentachlorophenol	0.400	0.452	-13.0	169	0.00
25		Phenanthrene	0.400	0.387	3.3	127	-0.01
26		Anthracene	0.400	0.374	6.5	124	-0.01
27	SURR	Fluoranthene-d10	0.400	0.342	14.5	117	0.00
28		Fluoranthene	0.400	0.353	11.8	119	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	119	0.00
30		Pyrene	0.400	0.399	0.3	120	0.00
31	S	Terphenyl-d14	0.400	0.380	5.0	115	0.00
32		Benzo(a)anthracene	0.400	0.381	4.8	118	0.00
33		Chrysene	0.400	0.401	-0.3	120	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.428	-7.0	141	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	132	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.457	-14.2	164	-0.02
37		Benzo(b)fluoranthene	0.400	0.380	5.0	127	0.00
38		Benzo(k)fluoranthene	0.400	0.399	0.3	139	-0.01
39	C	Benzo(a)pyrene	0.400	0.388	3.0	135	-0.01
40		Dibenzo(a,h)anthracene	0.400	0.448	-12.0	164	-0.02
41		Benzo(g,h,i)perylene	0.400	0.412	-3.0	141	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	BNA_N	Calibration Date/Time:	09/19/2025 13:03
Lab File ID:	BN037811.D	Init. Calib. Date(s):	09/11/2025 09/11/2025
EPA Sample No.:	SSTDCCC0.4EC	Init. Calib. Time(s):	09:56 13:33

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.497		-6.2	50.0
Fluoranthene-d10	1.004	0.957		-4.7	50.0
2-Fluorophenol	0.918	1.044		13.7	50.0
Phenol-d6	1.191	1.176		-1.3	50.0
Nitrobenzene-d5	0.293	0.292		-0.3	50.0
2-Fluorobiphenyl	1.673	1.615		-3.5	50.0
2,4,6-Tribromophenol	0.104	0.131		26.0	50.0
Terphenyl-d14	0.812	0.765		-5.8	50.0
1,4-Dioxane	0.417	0.424		1.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037811.D
Acq On : 19 Sep 2025 13:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 19 13:27:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

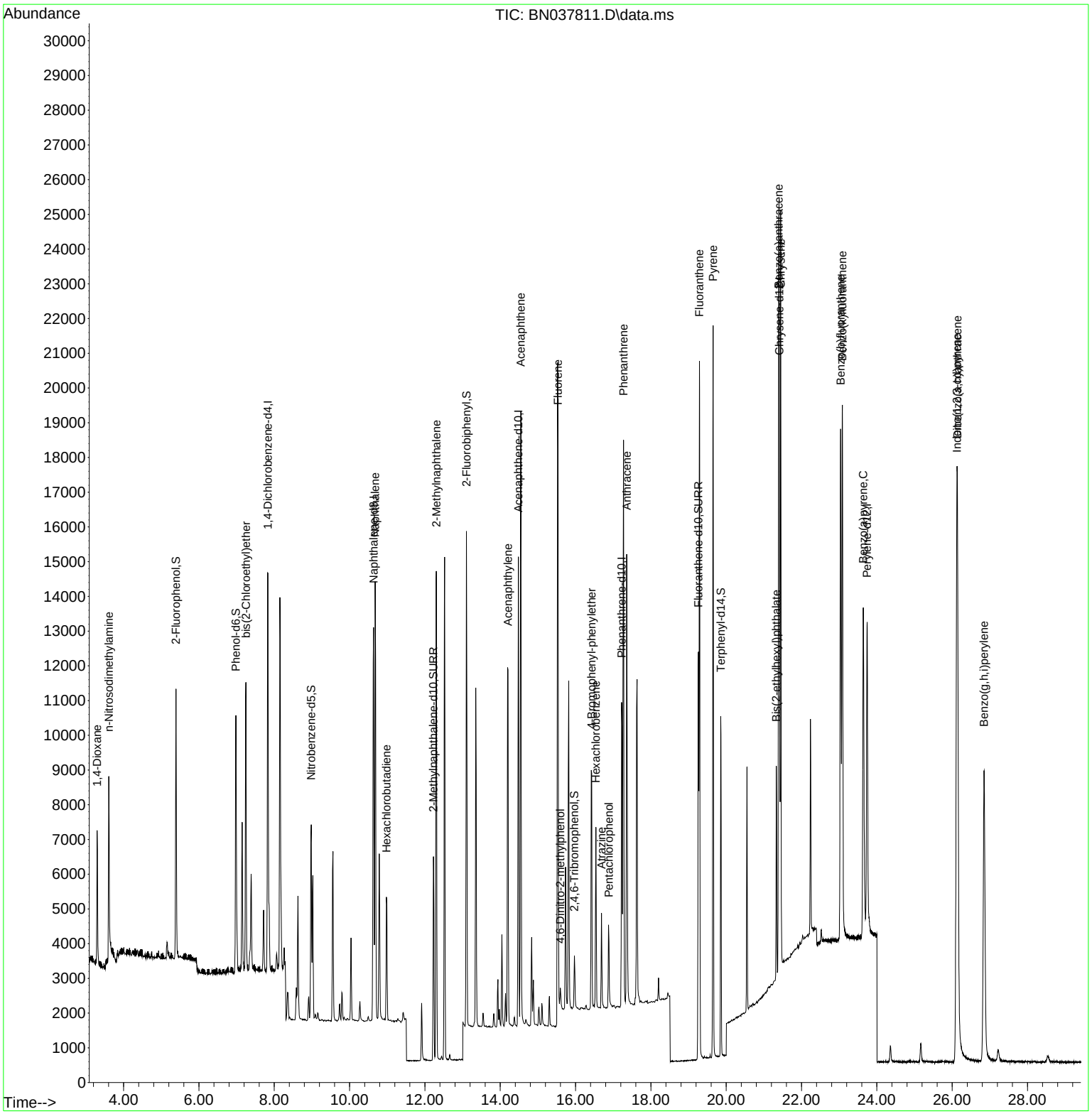
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.833	152	5811	0.400	ng		0.00
7) Naphthalene-d8	10.637	136	15706	0.400	ng		#-0.01
13) Acenaphthene-d10	14.484	164	7363	0.400	ng		-0.01
19) Phenanthrene-d10	17.223	188	13521	0.400	ng		-0.01
29) Chrysene-d12	21.411	240	12361	0.400	ng		0.00
35) Perylene-d12	23.741	264	12915	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.392	112	6068	0.455	ng		0.00
5) Phenol-d6	6.980	99	6833	0.395	ng		0.00
8) Nitrobenzene-d5	8.982	82	4585	0.399	ng		-0.01
11) 2-Methylnaphthalene-d10	12.227	152	7805	0.375	ng		-0.02
14) 2,4,6-Tribromophenol	15.969	330	963	0.501	ng		-0.01
15) 2-Fluorobiphenyl	13.105	172	11890	0.386	ng		-0.01
27) Fluoranthene-d10	19.262	212	12937	0.381	ng		0.00
31) Terphenyl-d14	19.856	244	9455	0.377	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	2462	0.407	ng		95
3) n-Nitrosodimethylamine	3.608	42	3283	0.415	ng		93
6) bis(2-Chloroethyl)ether	7.248	93	6036	0.391	ng		99
9) Naphthalene	10.680	128	16766	0.391	ng		100
10) Hexachlorobutadiene	10.979	225	3007	0.387	ng	#	100
12) 2-Methylnaphthalene	12.303	142	10188	0.384	ng		99
16) Acenaphthylene	14.206	152	12502	0.370	ng		99
17) Acenaphthene	14.548	154	8660	0.379	ng		98
18) Fluorene	15.535	166	10559	0.382	ng		99
20) 4,6-Dinitro-2-methylph...	15.597	198	416	0.332	ng	#	84
21) 4-Bromophenyl-phenylether	16.429	248	3252	0.369	ng		97
22) Hexachlorobenzene	16.540	284	4063	0.401	ng		99
23) Atrazine	16.689	200	2102	0.375	ng		95
24) Pentachlorophenol	16.888	266	1388	0.471	ng		93
25) Phenanthrene	17.273	178	16630	0.391	ng		100
26) Anthracene	17.359	178	14242	0.378	ng		100
28) Fluoranthene	19.290	202	18266	0.391	ng		100
30) Pyrene	19.652	202	18234	0.377	ng		100
32) Benzo(a)anthracene	21.393	228	16344	0.379	ng		100
33) Chrysene	21.447	228	18321	0.396	ng		99
34) Bis(2-ethylhexyl)phtha...	21.331	149	5701	0.446	ng		99
36) Indeno(1,2,3-cd)pyrene	26.124	276	24237	0.447	ng		100
37) Benzo(b)fluoranthene	23.037	252	19797	0.389	ng		98
38) Benzo(k)fluoranthene	23.084	252	20862	0.402	ng		99
39) Benzo(a)pyrene	23.639	252	15816	0.388	ng		97
40) Dibenzo(a,h)anthracene	26.139	278	18950	0.437	ng		97
41) Benzo(g,h,i)perylene	26.846	276	18988	0.391	ng		97

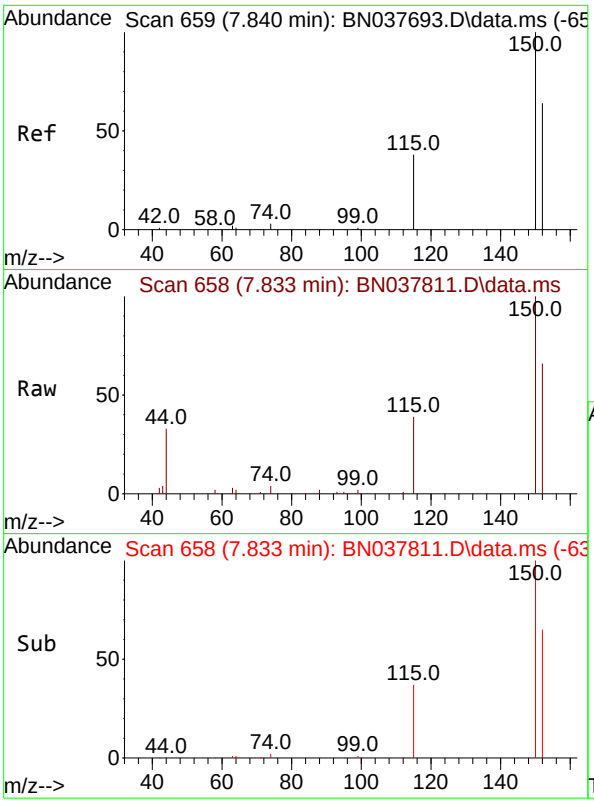
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037811.D
Acq On : 19 Sep 2025 13:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 19 13:27:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



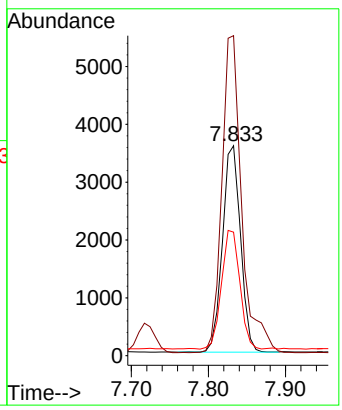


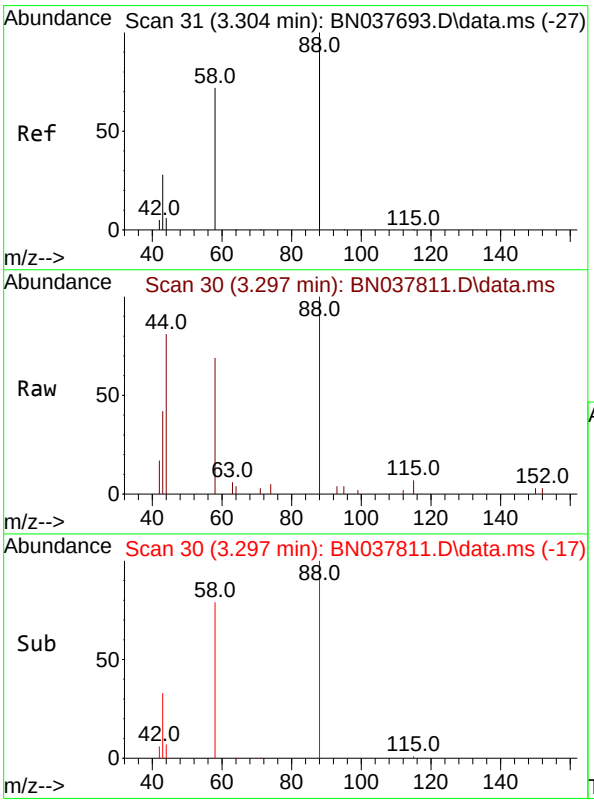
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 5811

Ion	Ratio	Lower	Upper
152	100		
150	152.5	124.5	186.7
115	58.8	49.2	73.8

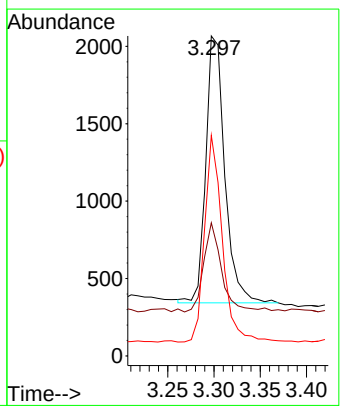


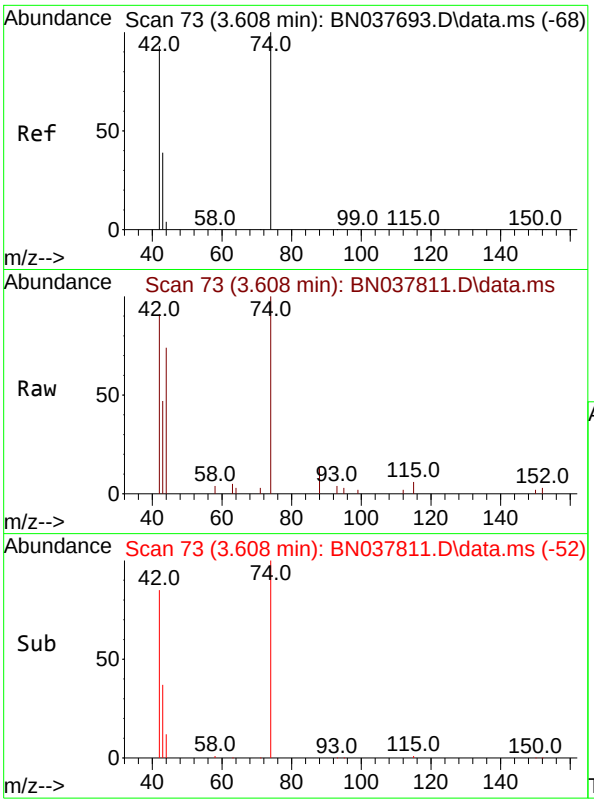


#2
1,4-Dioxane
Concen: 0.407 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion: 88 Resp: 2462

Ion	Ratio	Lower	Upper
88	100		
43	32.0	26.8	40.2
58	72.4	61.9	92.9



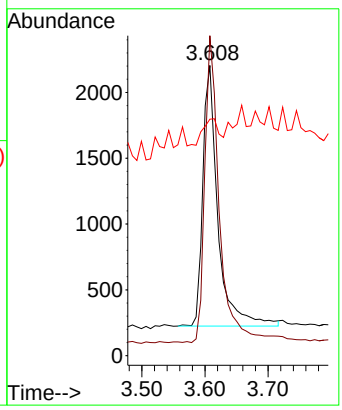


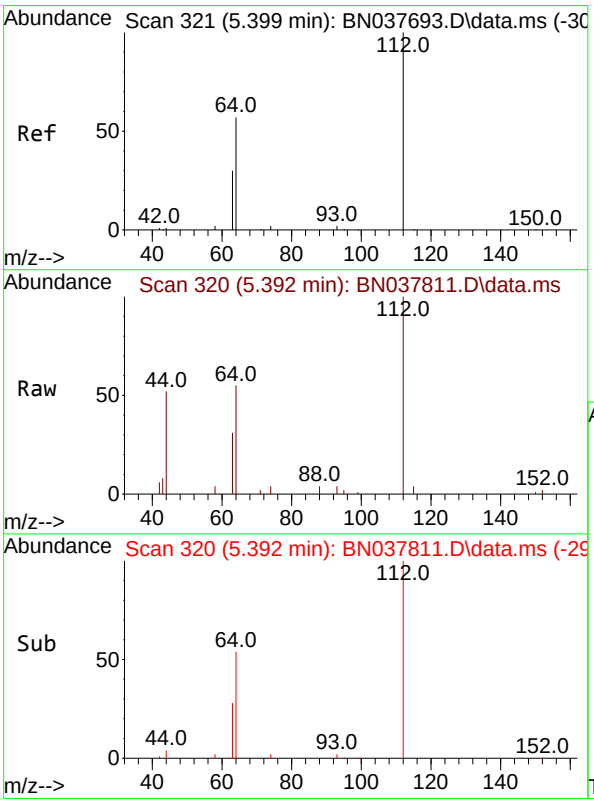
#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 3283

Ion	Ratio	Lower	Upper
42	100		
74	115.6	86.0	129.0
44	10.4	8.4	12.6

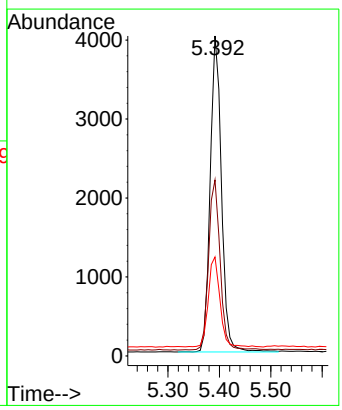


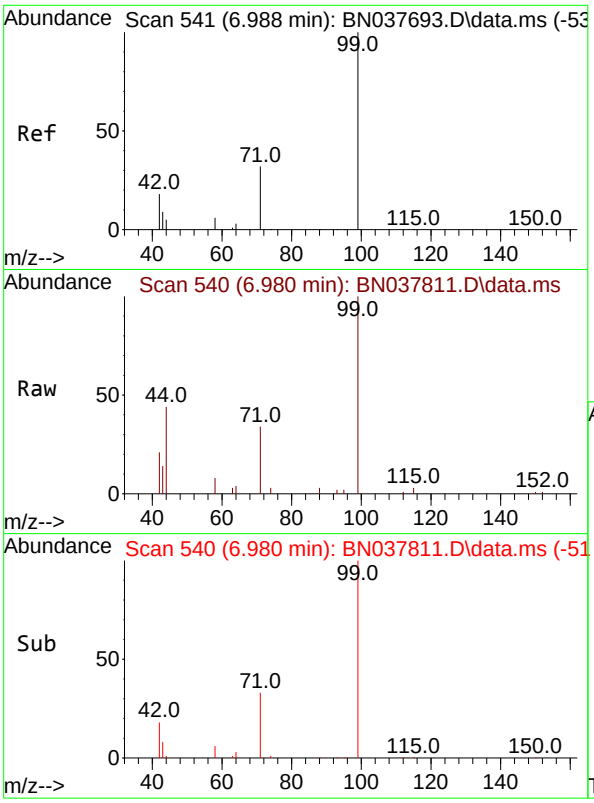


#4
2-Fluorophenol
Concen: 0.455 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:112 Resp: 6068

Ion	Ratio	Lower	Upper
112	100		
64	54.8	44.9	67.3
63	29.3	24.7	37.1



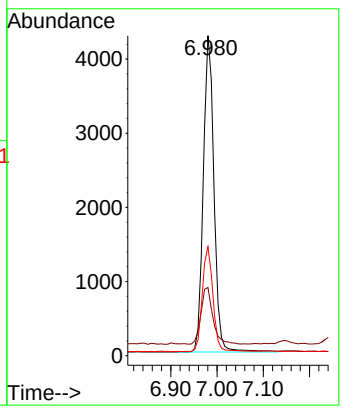


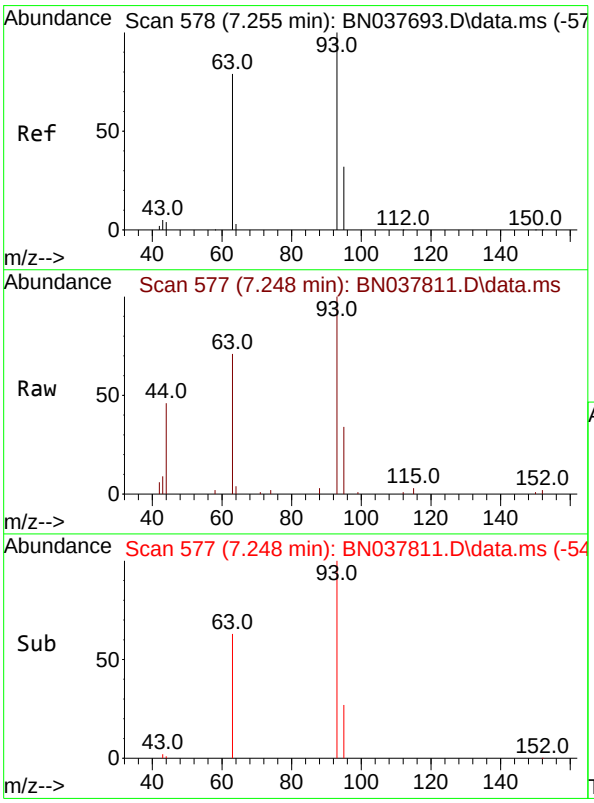
#5
Phenol-d6
Concen: 0.395 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 6833

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.6	24.8
71	33.2	26.7	40.1

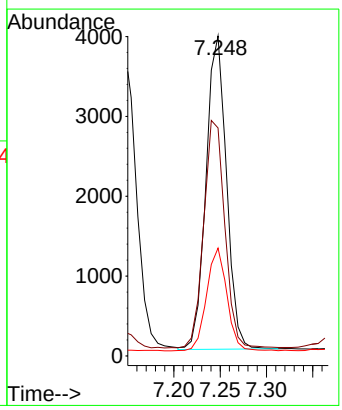


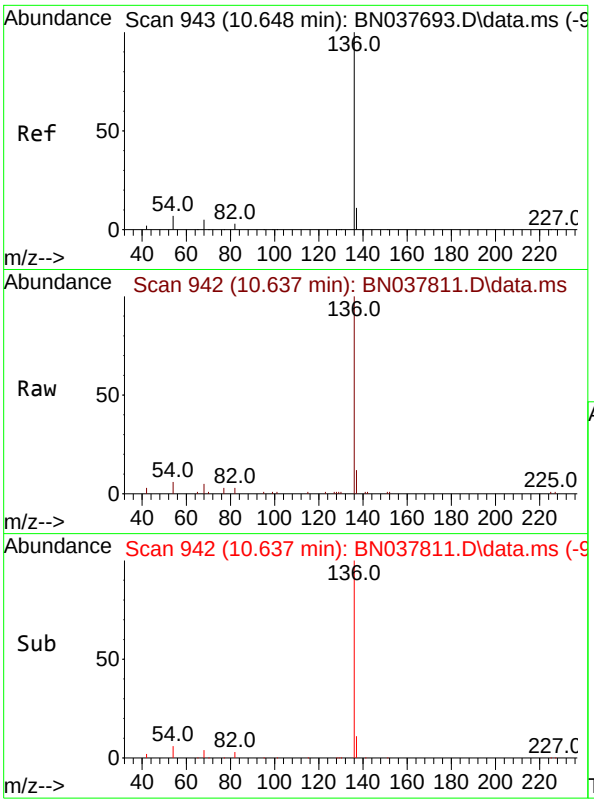


#6
bis(2-Chloroethyl)ether
Concen: 0.391 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion: 93 Resp: 6036

Ion	Ratio	Lower	Upper
93	100		
63	75.0	60.6	90.8
95	32.6	26.0	39.0



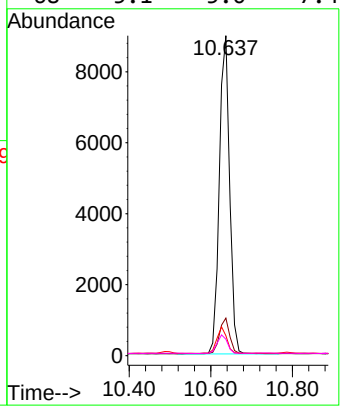


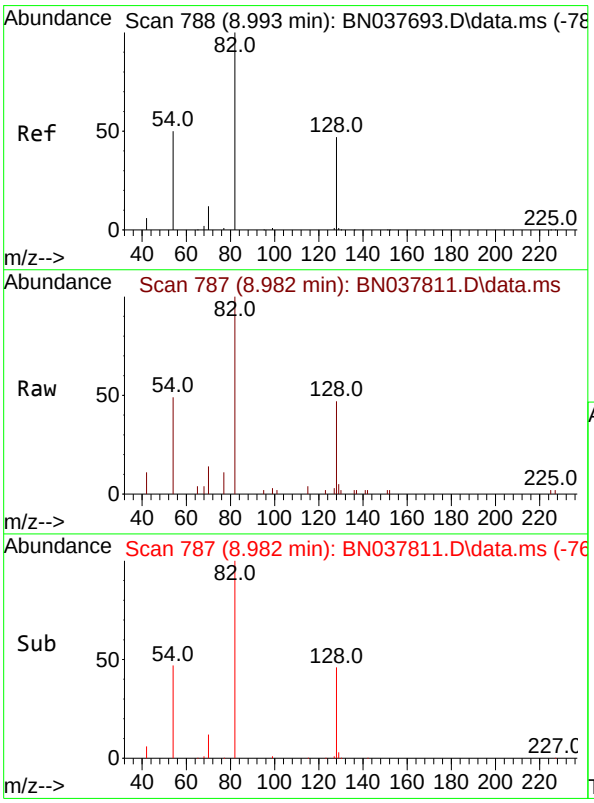
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 15706

Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.1	13.7
54	6.3	6.3	9.5#
68	5.1	5.0	7.4

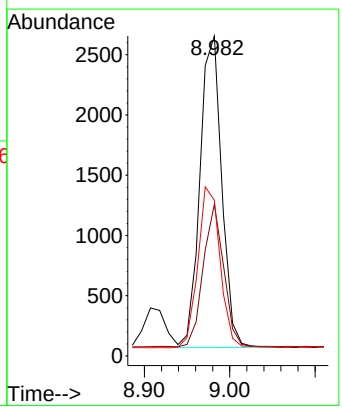


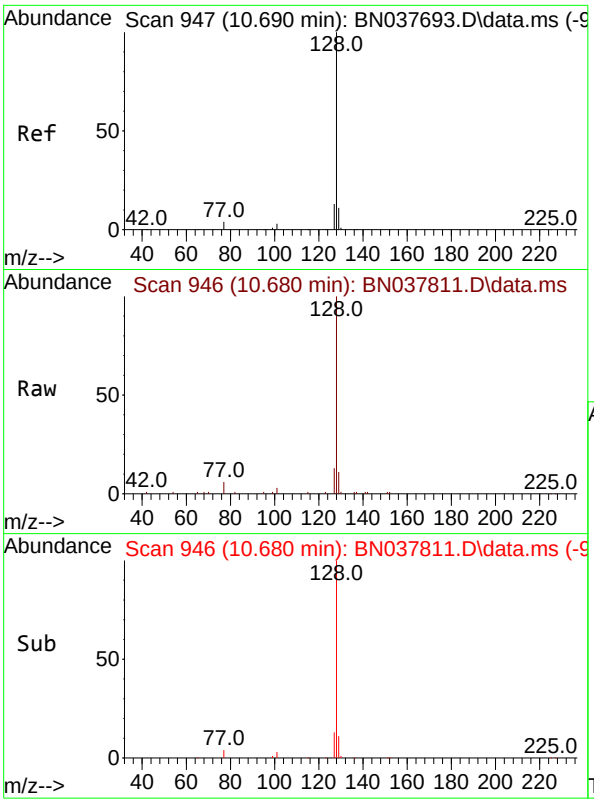


#8
Nitrobenzene-d5
Concen: 0.399 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion: 82 Resp: 4585

Ion	Ratio	Lower	Upper
82	100		
128	47.4	38.3	57.5
54	48.6	41.4	62.2



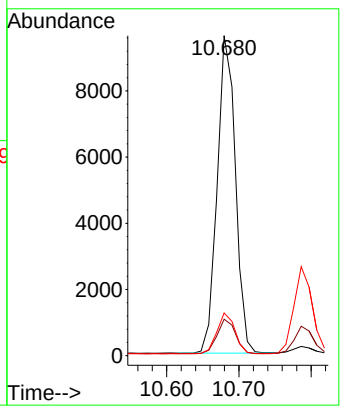


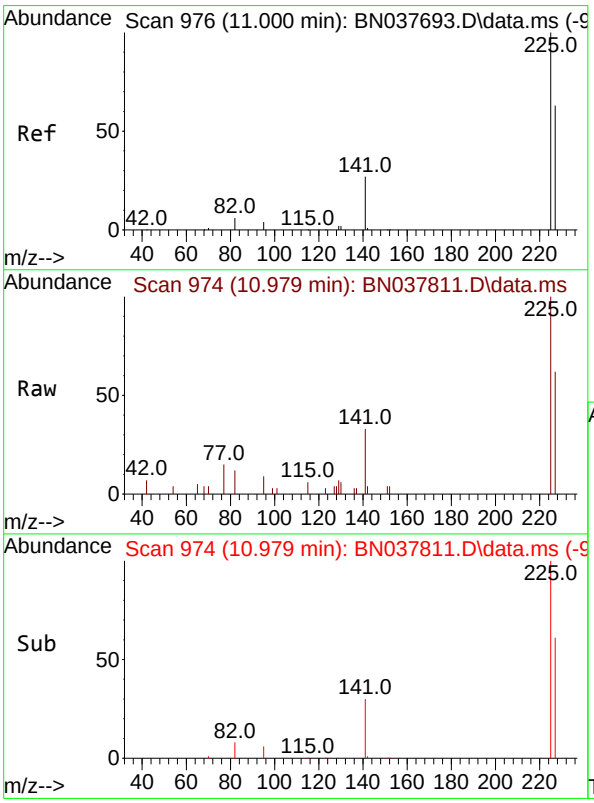
#9
Naphthalene
Concen: 0.391 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 16766

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.4	10.9	16.3

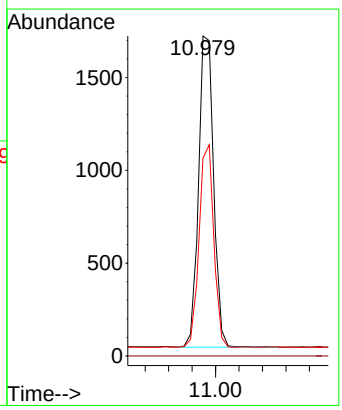


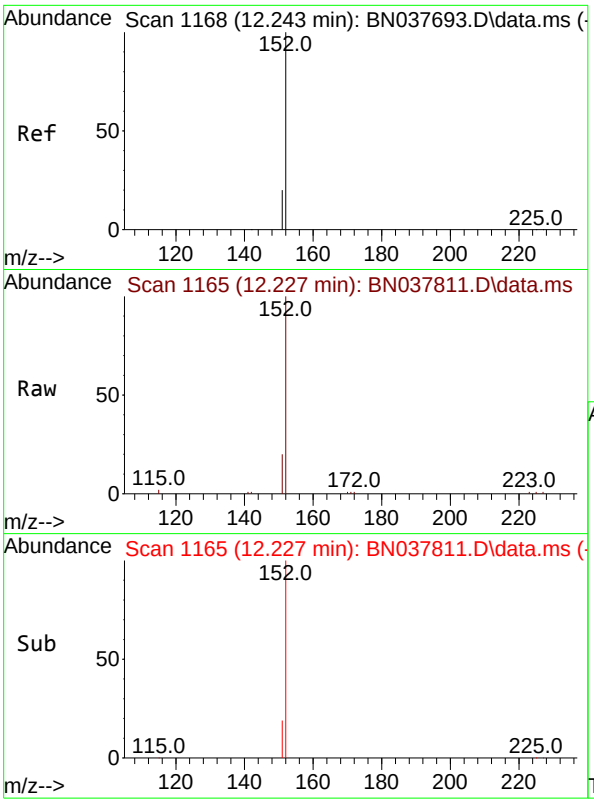


#10
Hexachlorobutadiene
Concen: 0.387 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:225 Resp: 3007

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	50.9	76.3



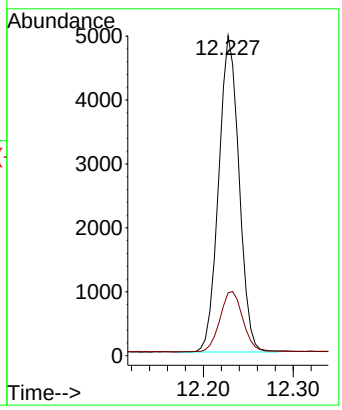


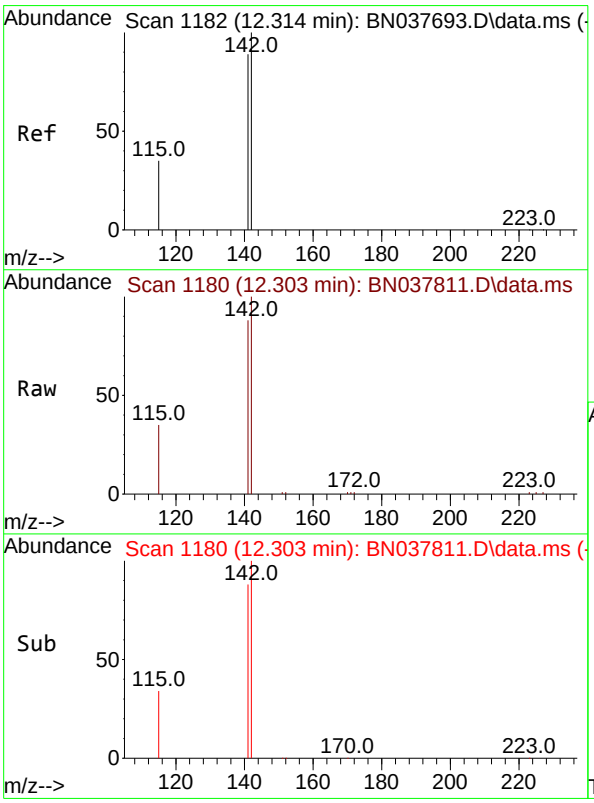
#11
2-Methylnaphthalene-d10
Concen: 0.375 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 7805

Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.0	25.6

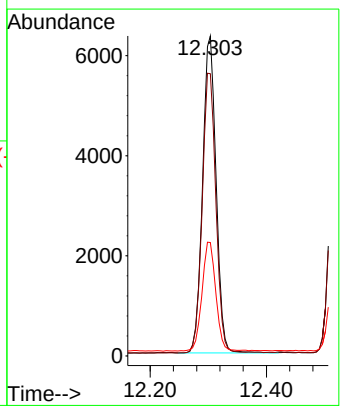


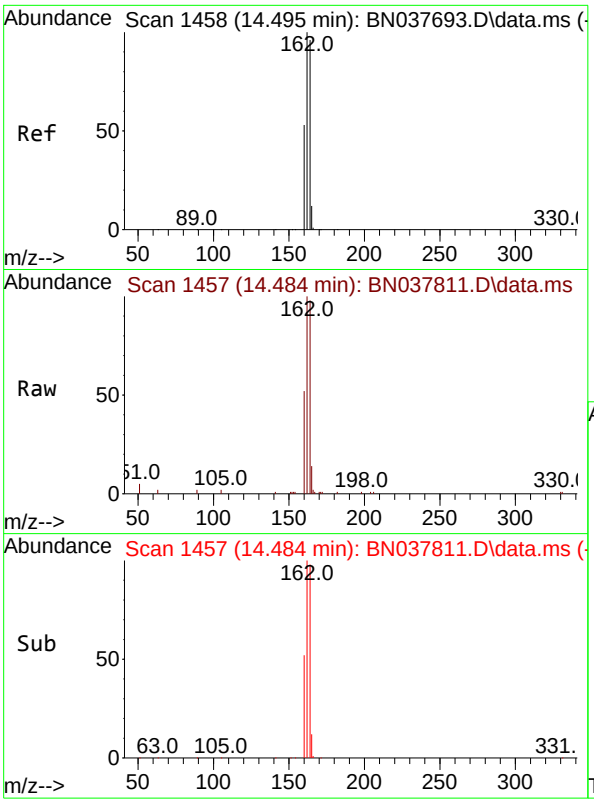


#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:142 Resp: 10188

Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.6	107.4
115	35.5	28.6	43.0



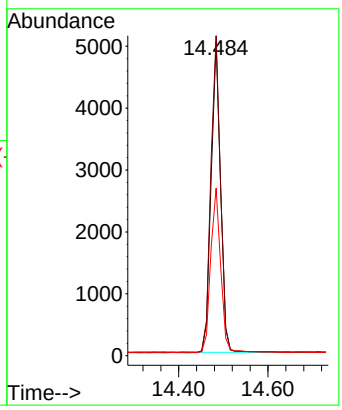


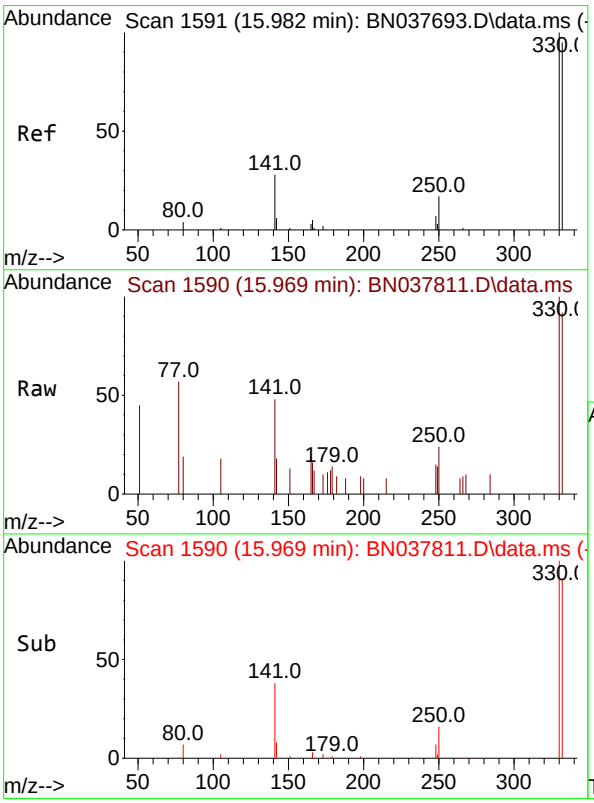
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 7363

Ion	Ratio	Lower	Upper
164	100		
162	101.9	83.1	124.7
160	53.4	44.3	66.5

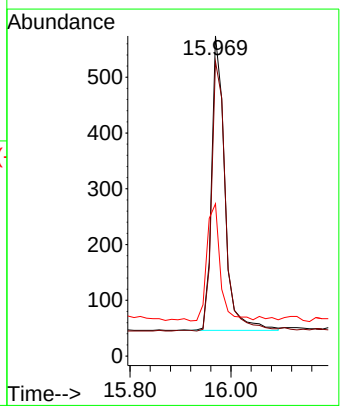


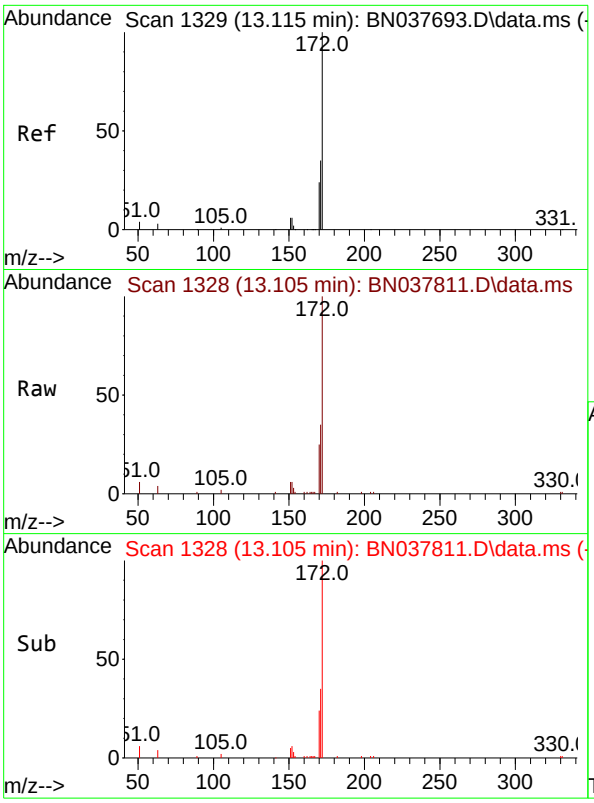


#14
2,4,6-Tribromophenol
Concen: 0.501 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:330 Resp: 963

Ion	Ratio	Lower	Upper
330	100		
332	96.7	75.3	112.9
141	40.4	35.0	52.4



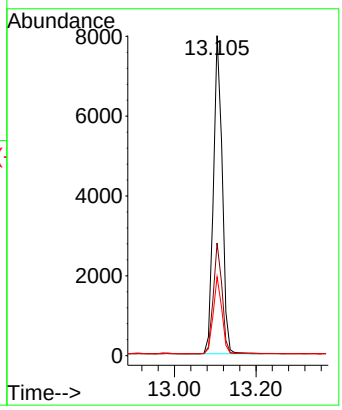


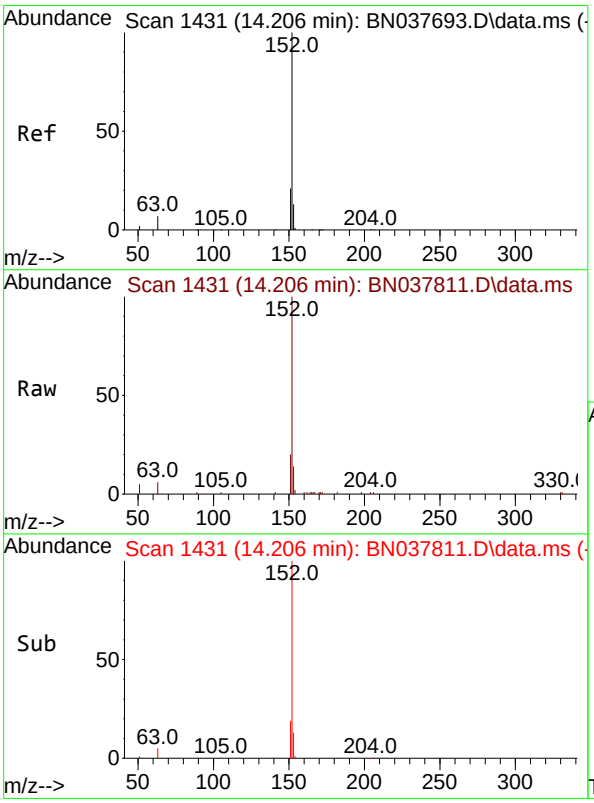
#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 11890

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	43.0
170	24.6	19.8	29.8

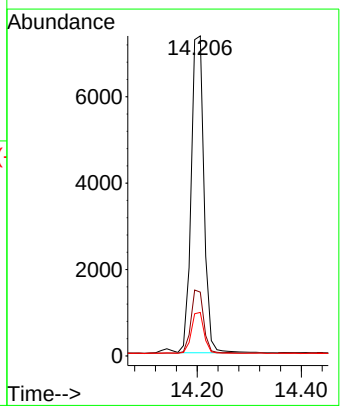


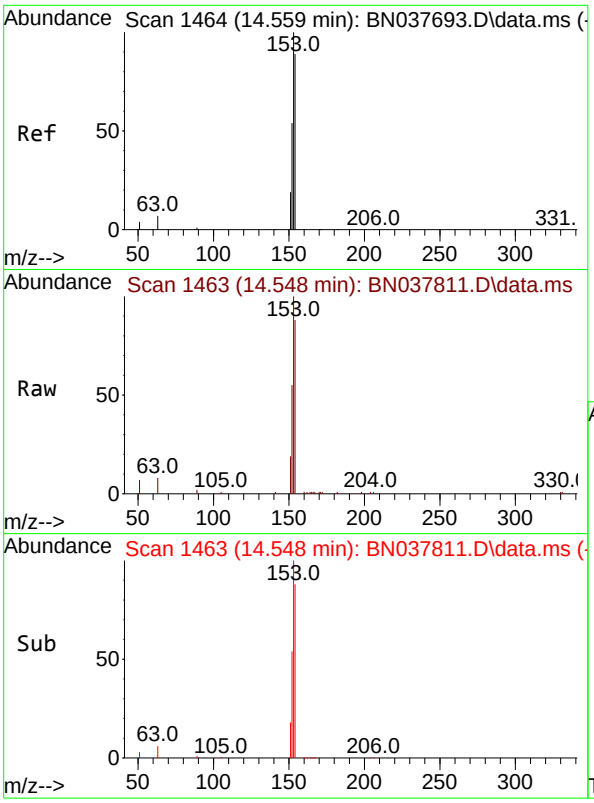


#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:152 Resp: 12502

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.3	10.4	15.6



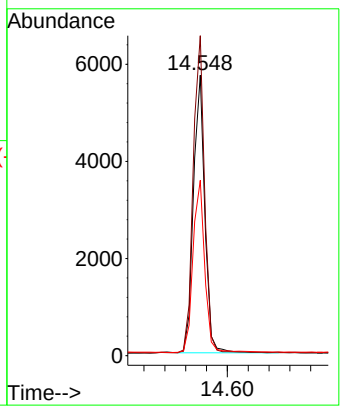


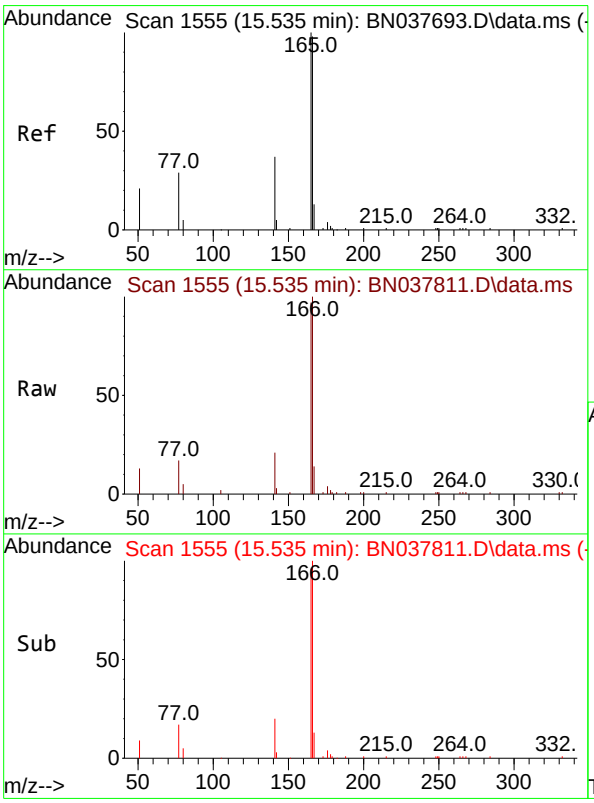
#17
Acenaphthene
Concen: 0.379 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 8660

Ion	Ratio	Lower	Upper
154	100		
153	114.7	89.8	134.8
152	64.6	50.2	75.2

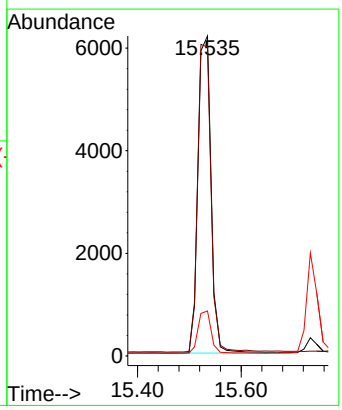


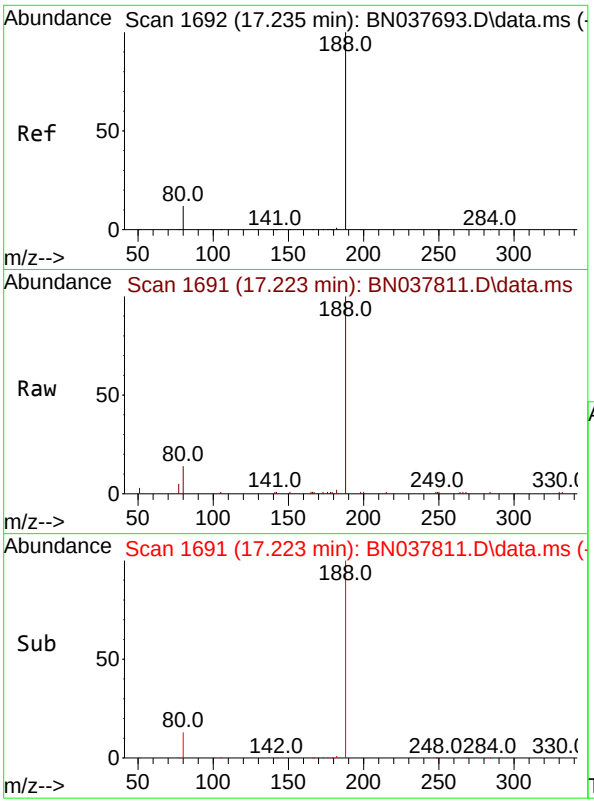


#18
Fluorene
Concen: 0.382 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:166 Resp: 10559

Ion	Ratio	Lower	Upper
166	100		
165	97.9	79.6	119.4
167	13.4	10.6	16.0



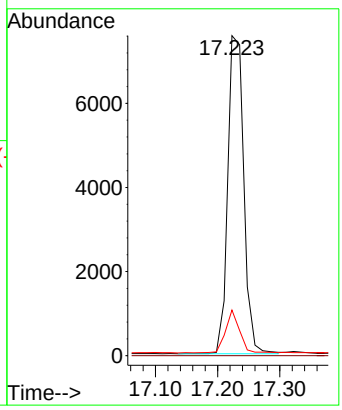


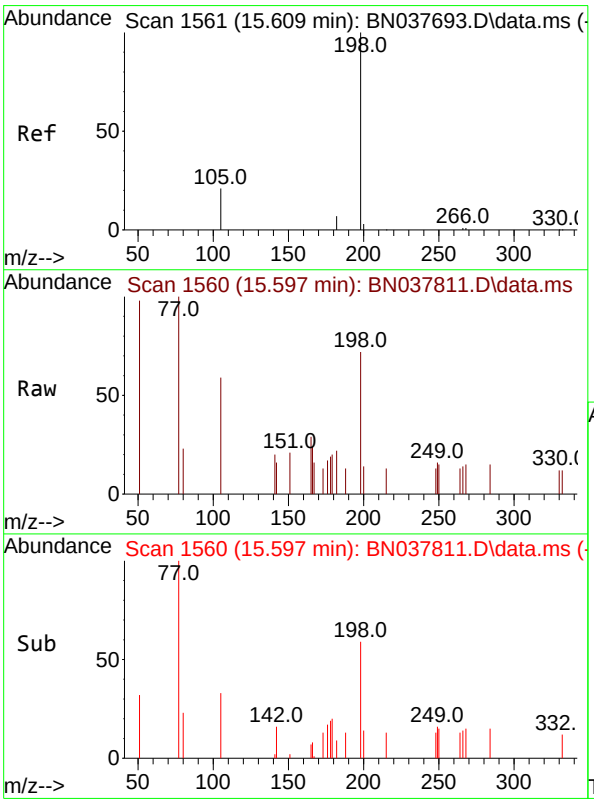
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 13521

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.3	10.6	15.8

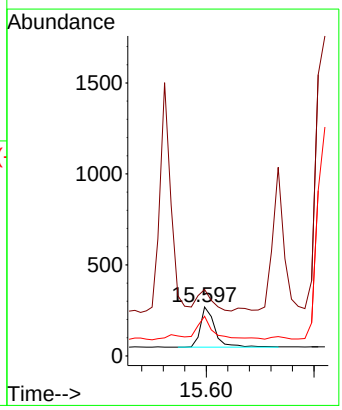


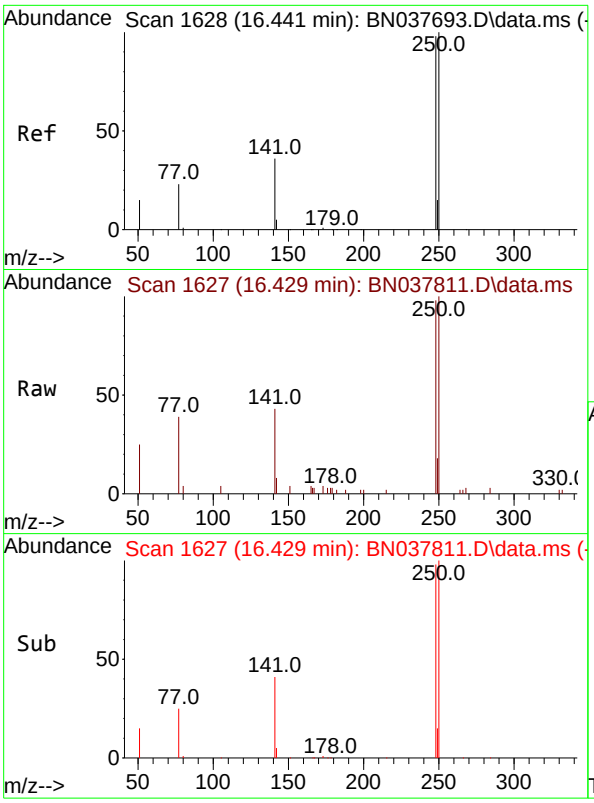


#20
4,6-Dinitro-2-methylphenol
Concen: 0.332 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:198 Resp: 416

Ion	Ratio	Lower	Upper
198	100		
51	135.7	95.1	142.7
105	81.0	53.8	80.6#



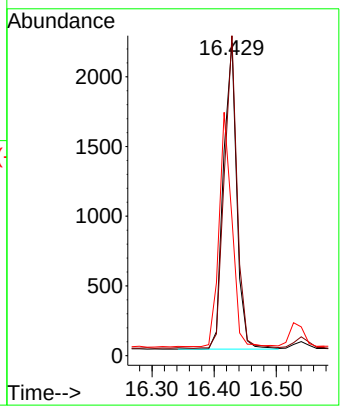


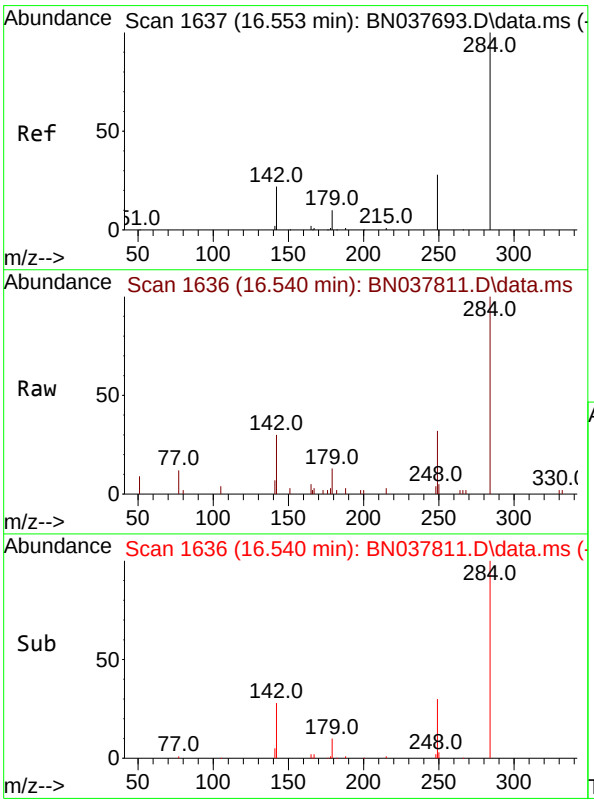
#21
4-Bromophenyl-phenylether
Concen: 0.369 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 3252

Ion	Ratio	Lower	Upper
248	100		
250	102.2	81.5	122.3
141	43.8	30.8	46.2

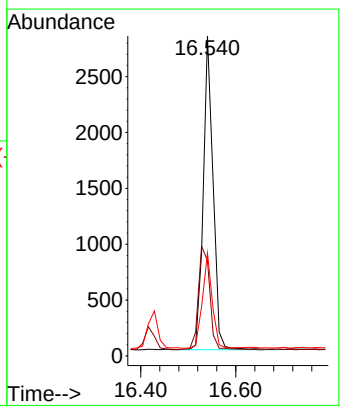


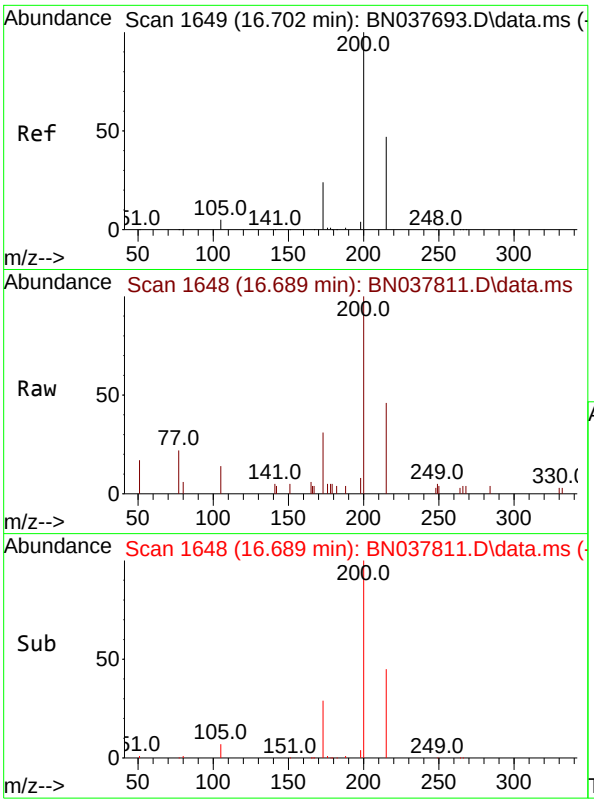


#22
Hexachlorobenzene
Concen: 0.401 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:284 Resp: 4063

Ion	Ratio	Lower	Upper
284	100		
142	38.3	30.9	46.3
249	30.0	24.8	37.2



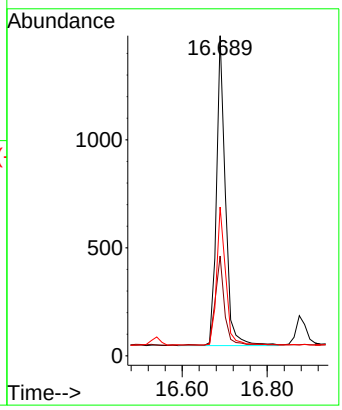


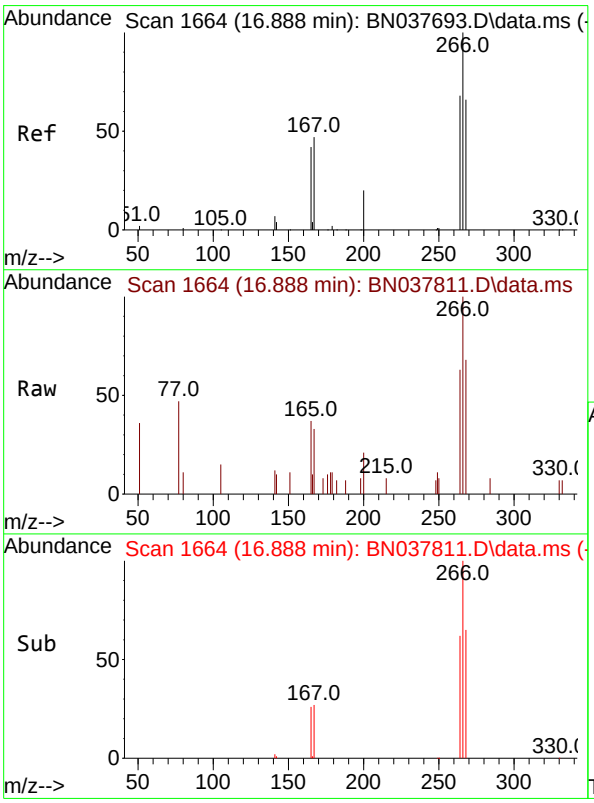
#23
Atrazine
Concen: 0.375 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 2102

Ion	Ratio	Lower	Upper
200	100		
173	31.2	21.4	32.2
215	46.5	39.2	58.8

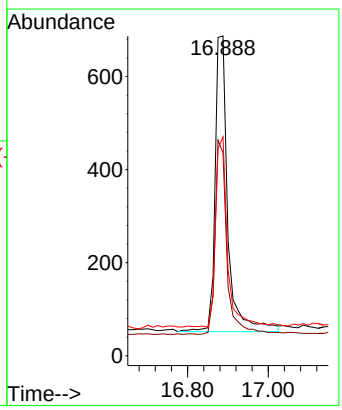


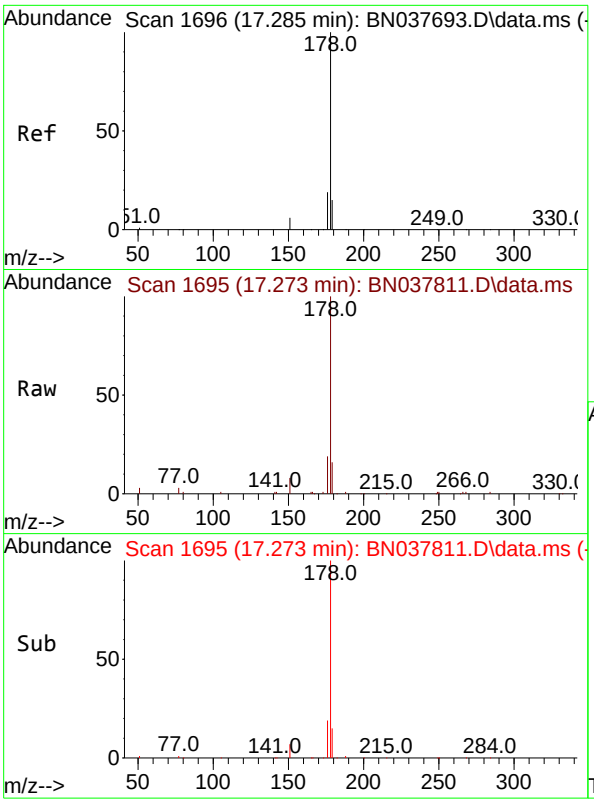


#24
Pentachlorophenol
Concen: 0.471 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:266 Resp: 1388

Ion	Ratio	Lower	Upper
266	100		
264	60.5	51.6	77.4
268	59.4	53.2	79.8



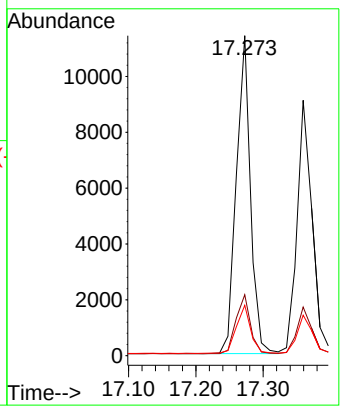


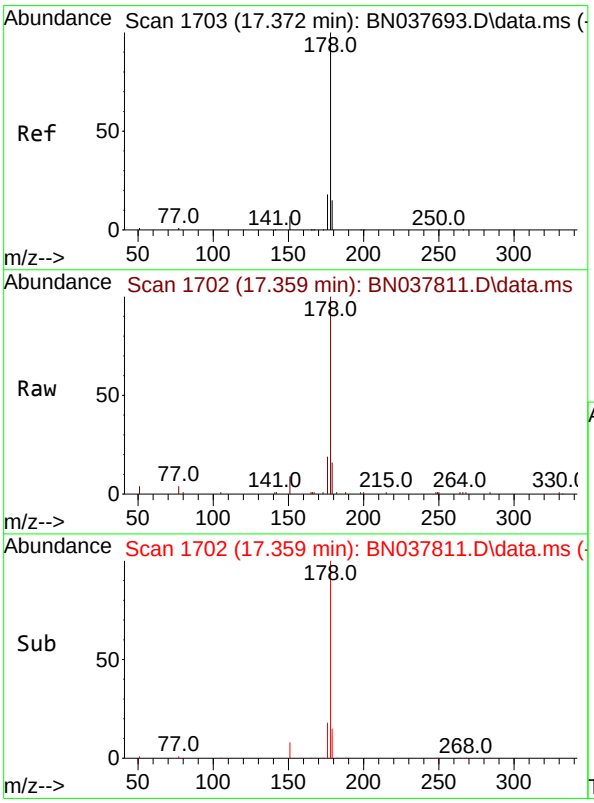
#25
Phenanthrene
Concen: 0.391 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 16630

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.3	22.9
179	15.4	12.2	18.2

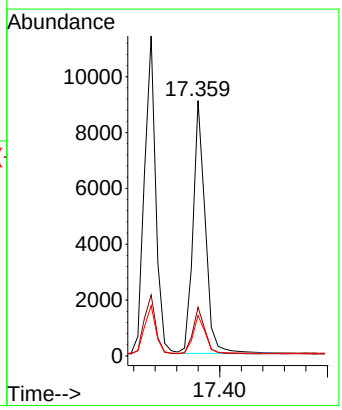


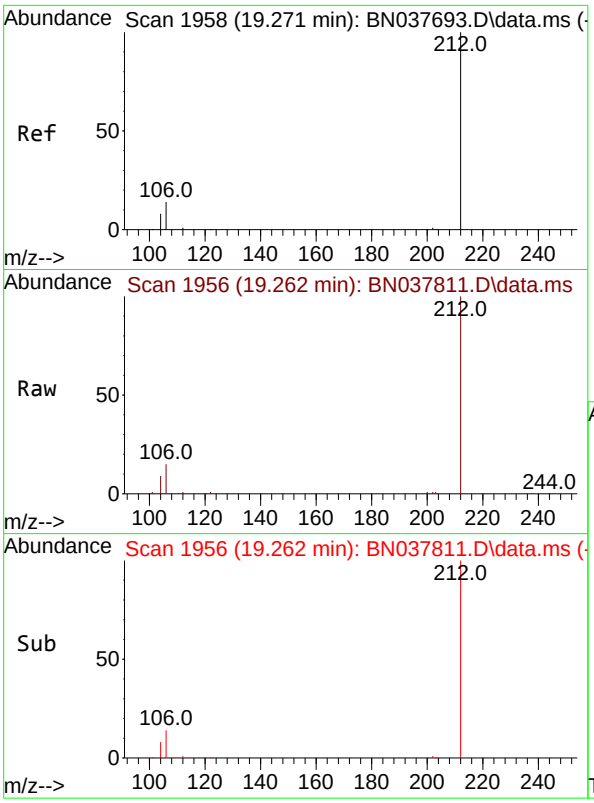


#26
Anthracene
Concen: 0.378 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:178 Resp: 14242

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.6	22.0
179	15.4	12.2	18.4



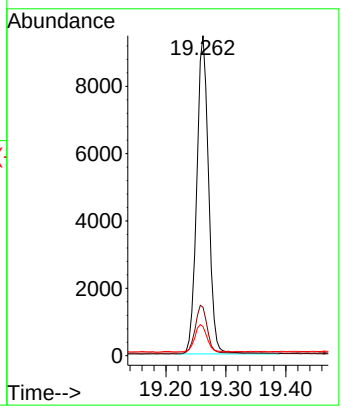


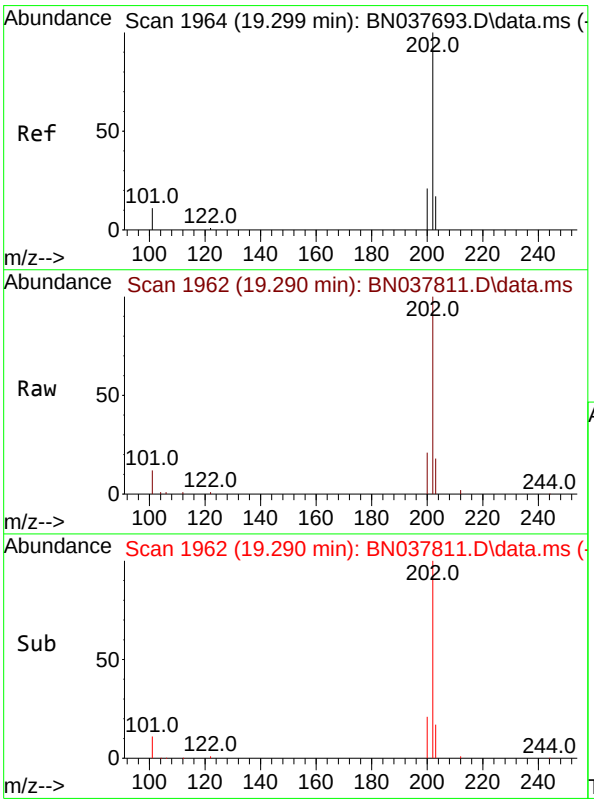
#27
Fluoranthene-d10
Concen: 0.381 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 12937

Ion	Ratio	Lower	Upper
212	100		
106	15.2	12.2	18.2
104	8.8	6.9	10.3

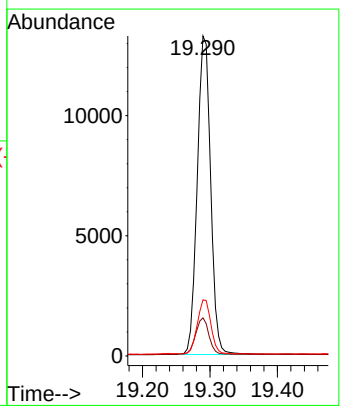


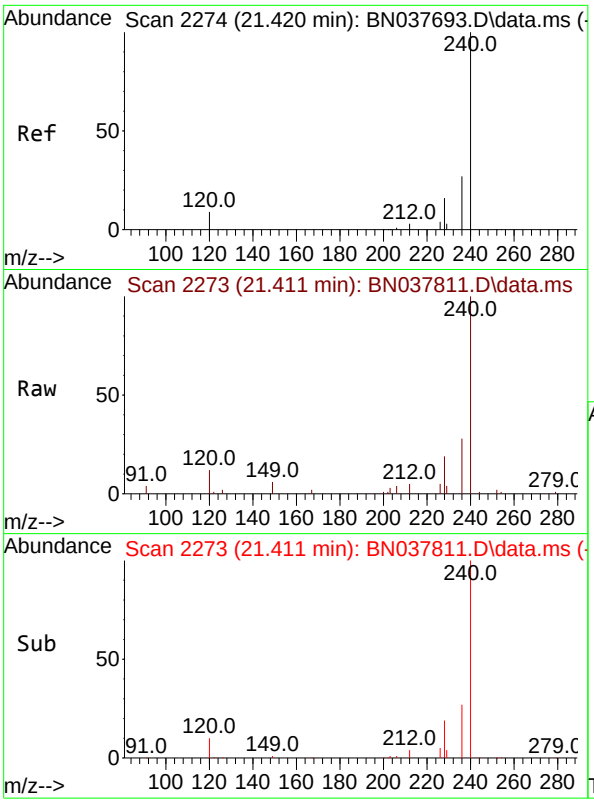


#28
Fluoranthene
Concen: 0.391 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:202 Resp: 18266

Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.3	13.9
203	17.2	13.7	20.5



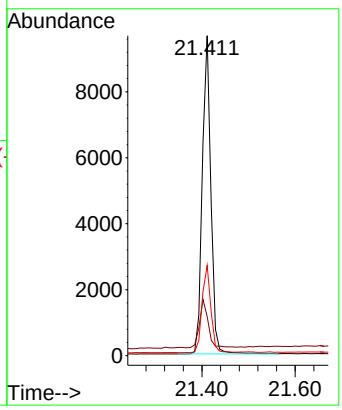


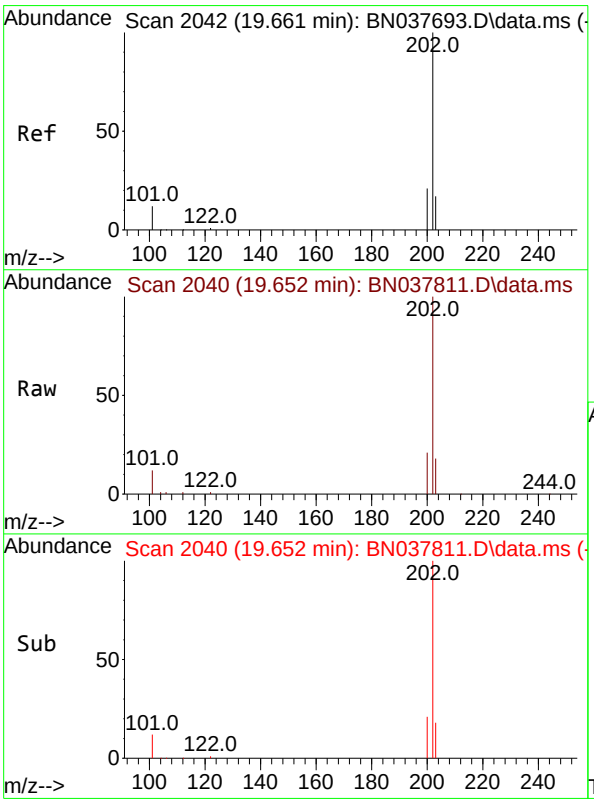
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 12361

Ion	Ratio	Lower	Upper
240	100		
120	12.3	9.2	13.8
236	28.2	22.6	33.8

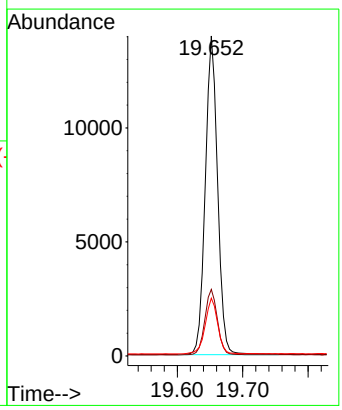


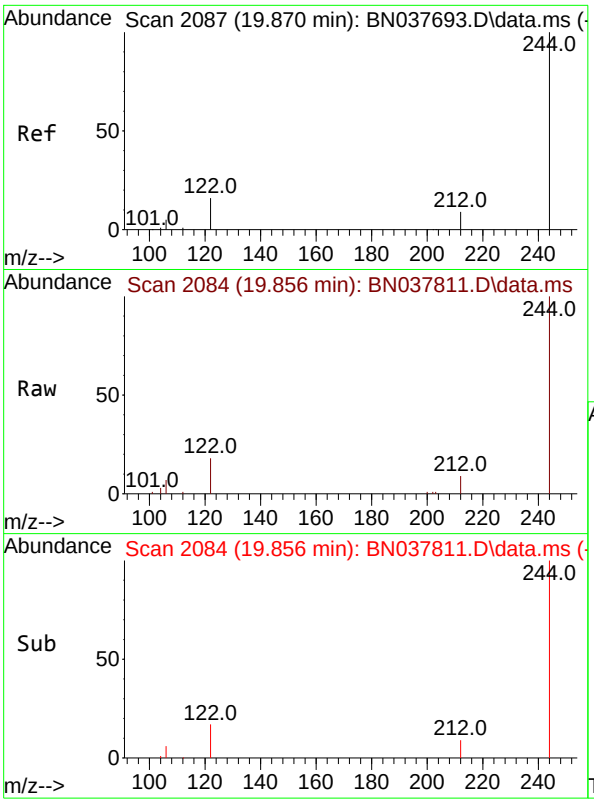


#30
Pyrene
Concen: 0.377 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:202 Resp: 18234

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.8	25.2
203	17.8	14.3	21.5



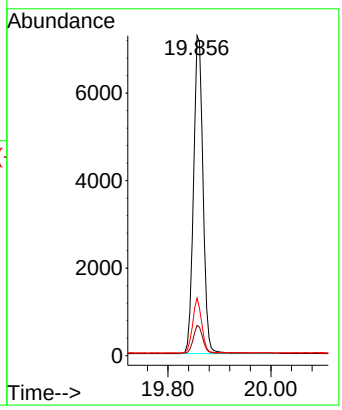


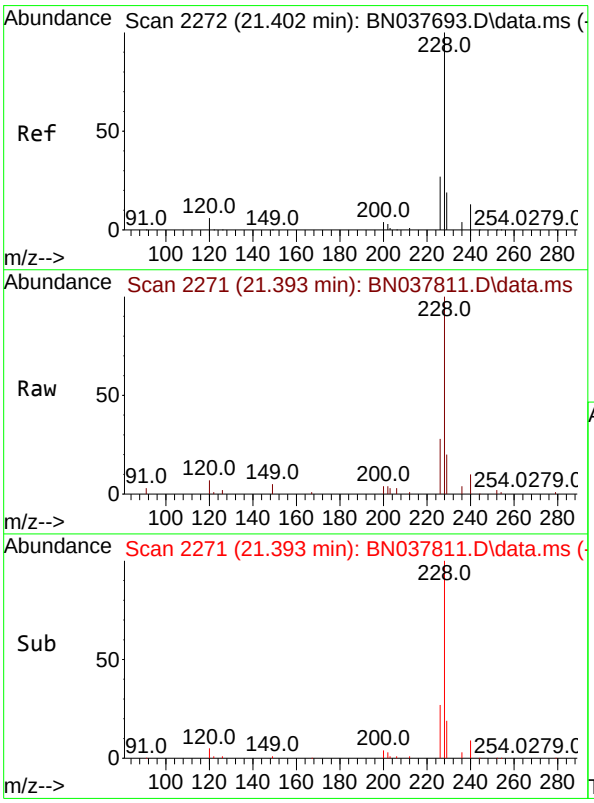
#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.856 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 9455

Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.5	11.3
122	18.0	13.2	19.8

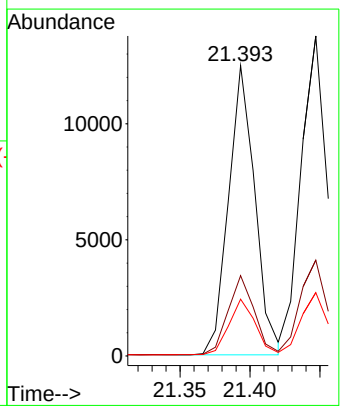


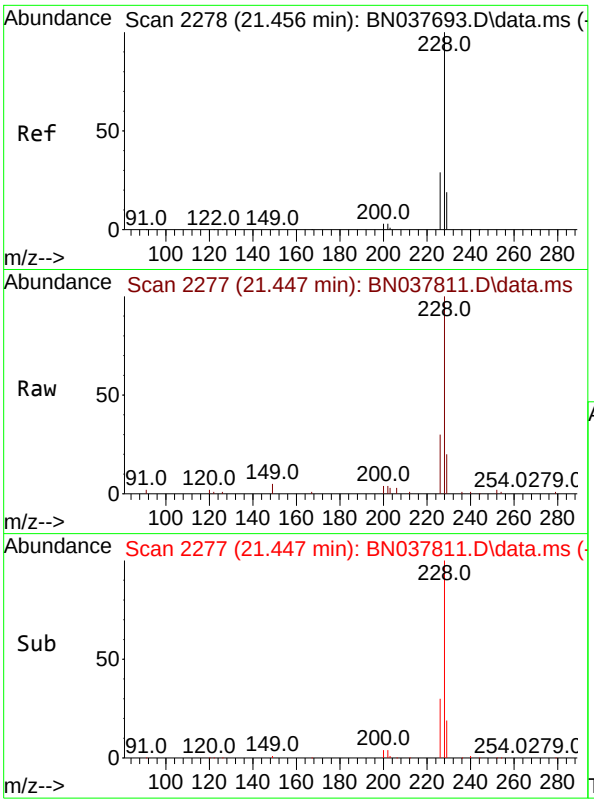


#32
Benzo(a)anthracene
Concen: 0.379 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:228 Resp: 16344

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.2
229	19.6	15.8	23.6



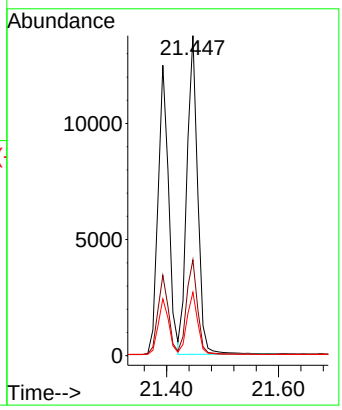


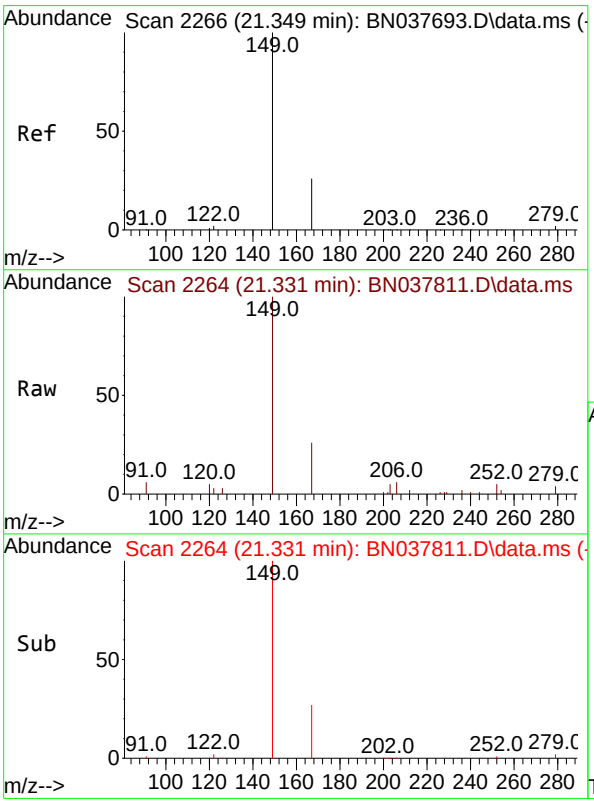
#33
Chrysene
Concen: 0.396 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 18321

Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.5	35.3
229	19.8	15.9	23.9

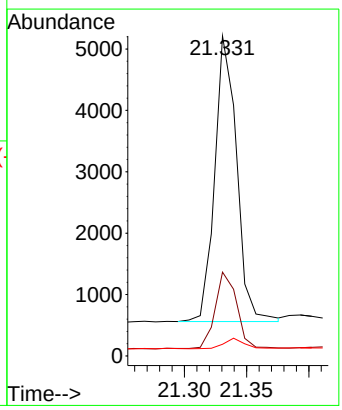


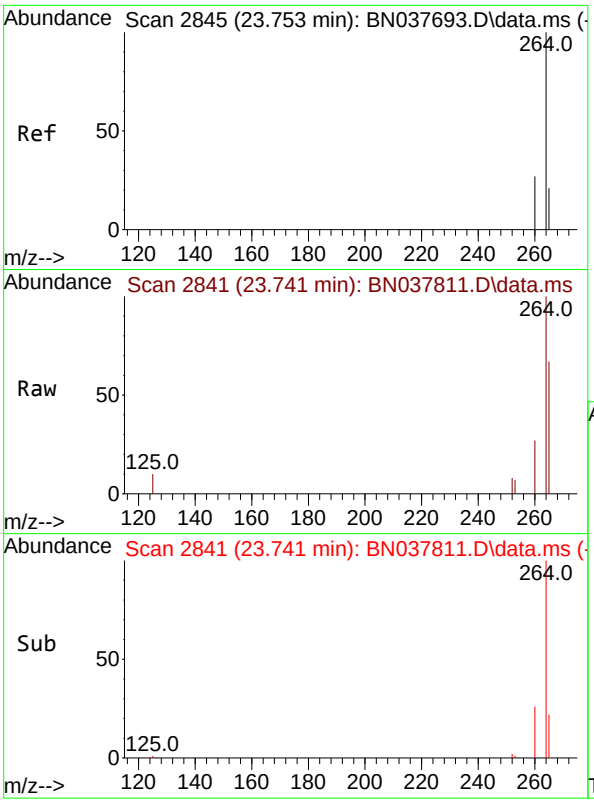


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.446 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:149 Resp: 5701

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.8	31.2
279	3.6	3.3	4.9



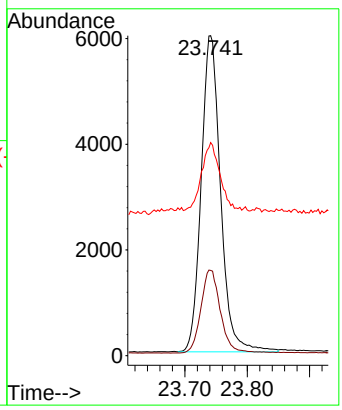


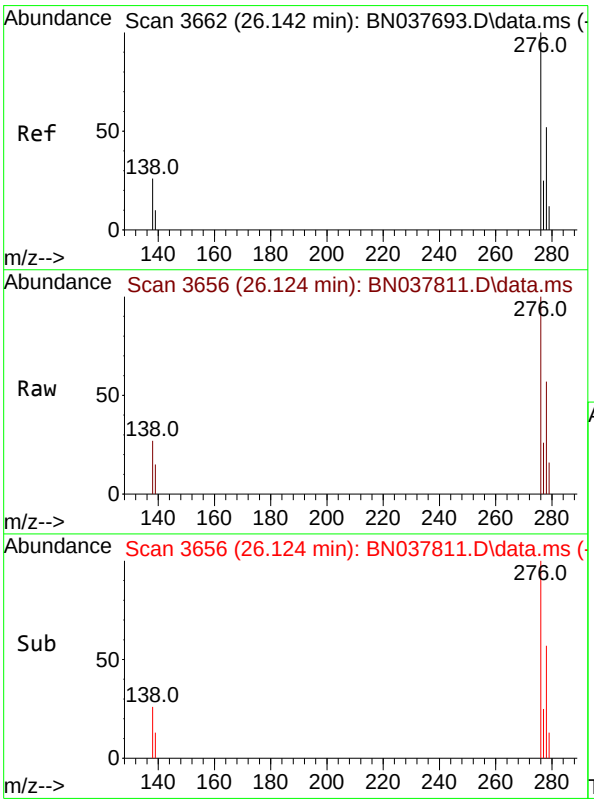
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 12915

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.8	32.8
265	66.6	39.4	59.2#

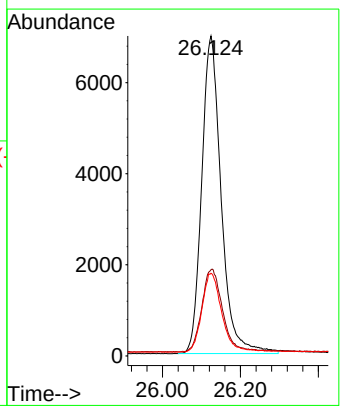


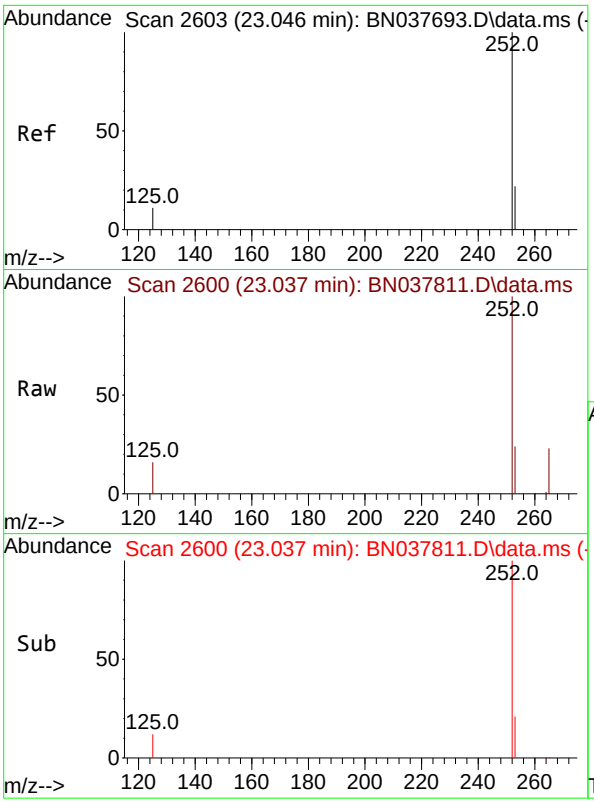


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.447 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:276 Resp: 24237

Ion	Ratio	Lower	Upper
276	100		
138	27.3	21.9	32.9
277	25.1	20.1	30.1



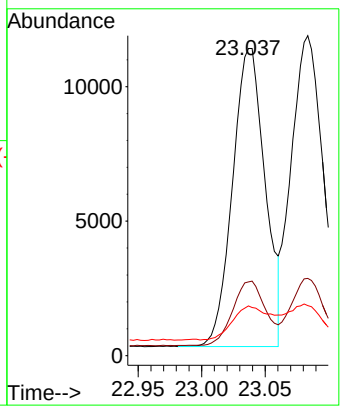


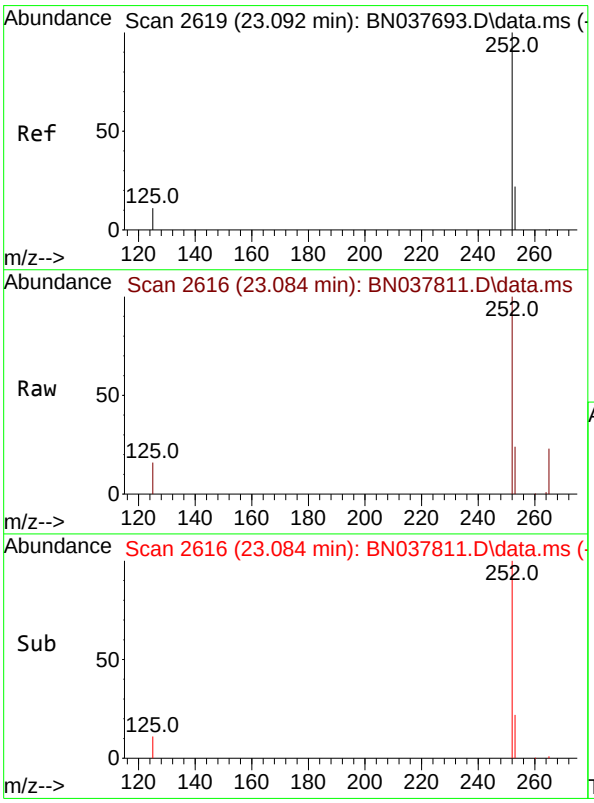
#37
Benzo(b)fluoranthene
Concen: 0.389 ng
RT: 23.037 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 19797

Ion	Ratio	Lower	Upper
252	100		
253	24.0	19.4	29.2
125	16.2	11.2	16.8

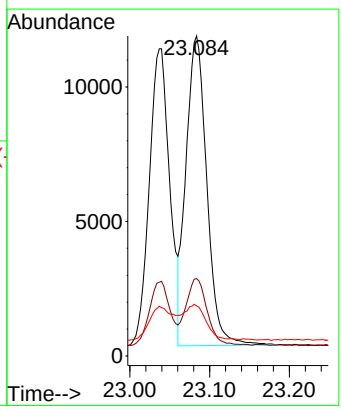


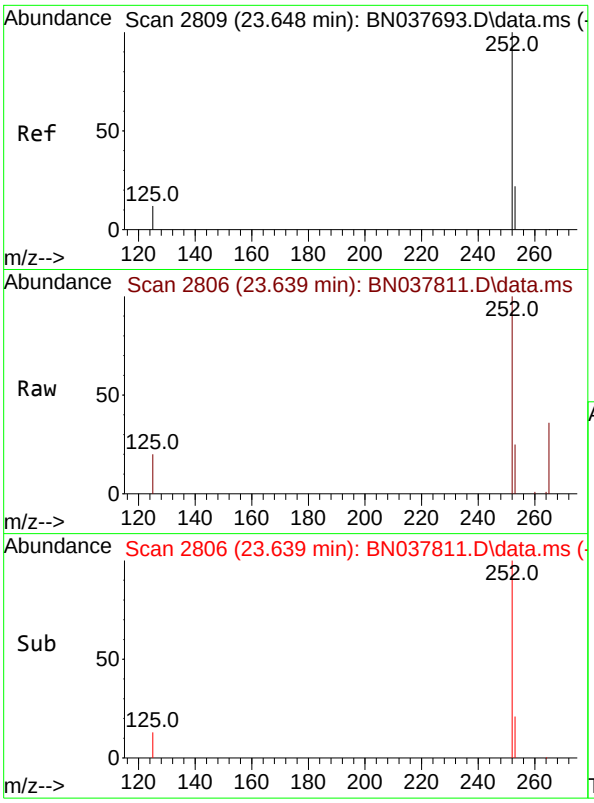


#38
Benzo(k)fluoranthene
Concen: 0.402 ng
RT: 23.084 min Scan# 2616
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:252 Resp: 20862

Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.4	29.0
125	15.7	11.6	17.4



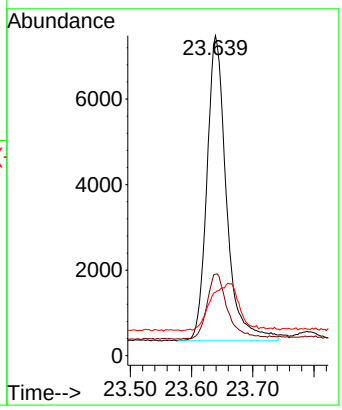


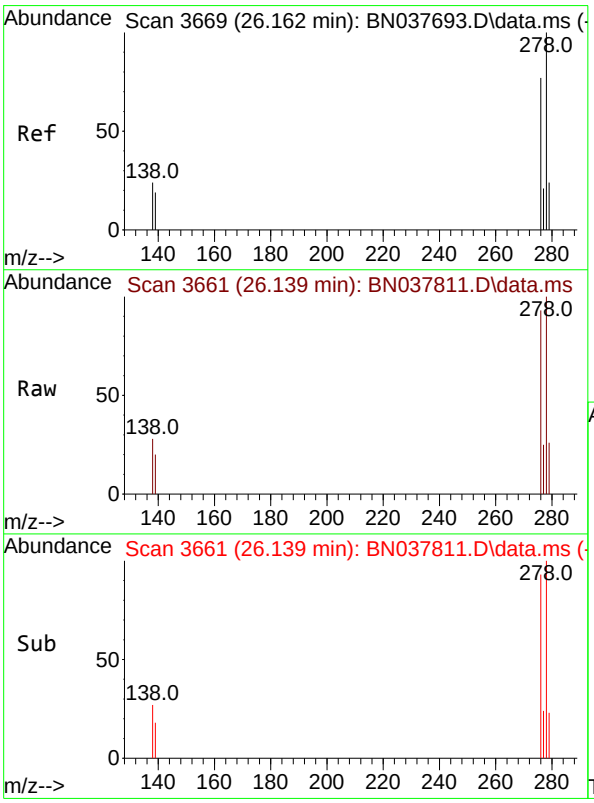
#39
Benzo(a)pyrene
Concen: 0.388 ng
RT: 23.639 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 15816

Ion	Ratio	Lower	Upper
252	100		
253	25.4	20.8	31.2
125	19.8	13.9	20.9

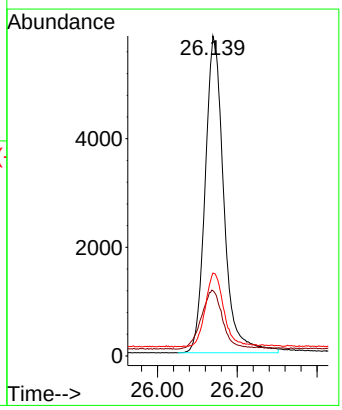


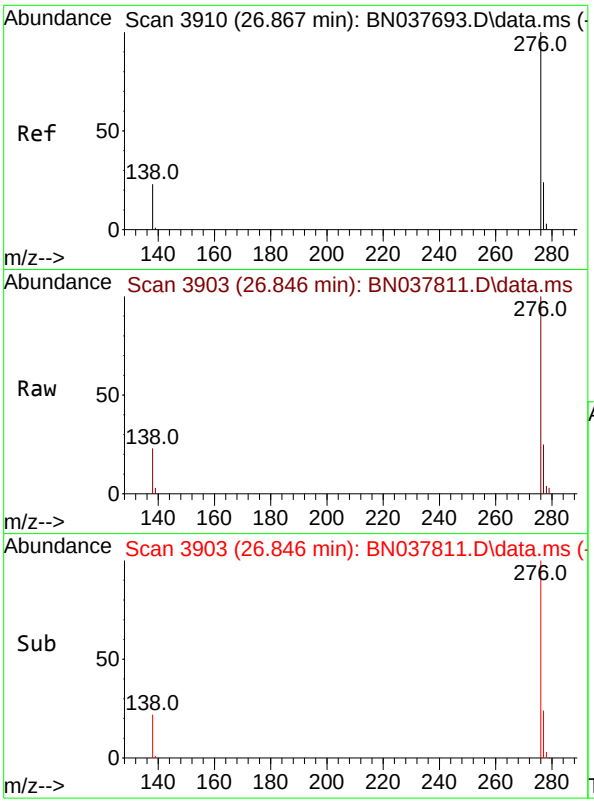


#40
Dibenzo(a,h)anthracene
Concen: 0.437 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.024 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:278 Resp: 18950

Ion	Ratio	Lower	Upper
278	100		
139	20.4	17.8	26.6
279	25.9	22.0	33.0



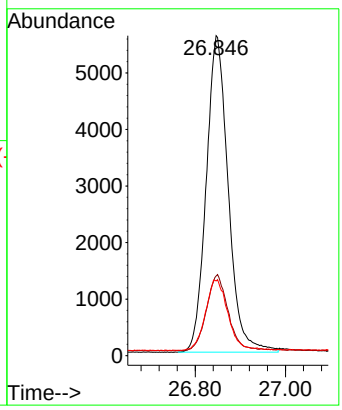


#41
Benzo(g,h,i)perylene
Concen: 0.391 ng
RT: 26.846 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 18988

Ion	Ratio	Lower	Upper
276	100		
277	24.9	20.6	31.0
138	23.3	20.2	30.2



Evaluate Continuing Calibration Report

Sample Results: **BN037811.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037811.D
Acq On : 19 Sep 2025 13:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 13:27:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	116	0.00
2		1,4-Dioxane	0.417	0.424	-1.7	117	0.00
3		n-Nitrosodimethylamine	0.544	0.565	-3.9	117	0.00
4	S	2-Fluorophenol	0.918	1.044	-13.7	136	0.00
5	S	Phenol-d6	1.191	1.176	1.3	118	0.00
6		bis(2-Chloroethyl)ether	1.064	1.039	2.3	113	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	119	-0.01
8	S	Nitrobenzene-d5	0.293	0.292	0.3	122	-0.01
9		Naphthalene	1.093	1.067	2.4	118	-0.01
10		Hexachlorobutadiene	0.198	0.191	3.5	115	-0.02
11	SURR	2-Methylnaphthalene-d10	0.530	0.497	6.2	118	-0.02
12		2-Methylnaphthalene	0.676	0.649	4.0	117	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	119	-0.01
14	S	2,4,6-Tribromophenol	0.104	0.131	-26.0#	154#	-0.01
15	S	2-Fluorobiphenyl	1.673	1.615	3.5	116	-0.01
16		Acenaphthylene	1.834	1.698	7.4	113	0.00
17		Acenaphthene	1.240	1.176	5.2	115	-0.01
18		Fluorene	1.502	1.434	4.5	118	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	120	-0.01
20		4,6-Dinitro-2-methylphenol	0.037	0.031	16.2	112	-0.01
21		4-Bromophenyl-phenylether	0.261	0.241	7.7	115	-0.01
22		Hexachlorobenzene	0.300	0.300	0.0	123	-0.01
23		Atrazine	0.166	0.155	6.6	123	-0.01
24		Pentachlorophenol	0.087	0.103	-18.4	165#	0.00
25		Phenanthrene	1.259	1.230	2.3	121	-0.01
26		Anthracene	1.116	1.053	5.6	118	-0.01
27	SURR	Fluoranthene-d10	1.004	0.957	4.7	123	0.00
28		Fluoranthene	1.381	1.351	2.2	124	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	132	0.00
30		Pyrene	1.566	1.475	5.8	125	0.00
31	S	Terphenyl-d14	0.812	0.765	5.8	126	-0.01
32		Benzo(a)anthracene	1.395	1.322	5.2	129	0.00
33		Chrysene	1.496	1.482	0.9	131	0.00
34		Bis(2-ethylhexyl)phthalate	0.414	0.461	-11.4	162#	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	144	-0.01
36		Indeno(1,2,3-cd)pyrene	1.681	1.877	-11.7	175#	-0.02
37		Benzo(b)fluoranthene	1.575	1.533	2.7	142	0.00
38		Benzo(k)fluoranthene	1.606	1.615	-0.6	153#	0.00
39	C	Benzo(a)pyrene	1.261	1.225	2.9	147	0.00
40		Dibenzo(a,h)anthracene	1.342	1.467	-9.3	175#	-0.02
41		Benzo(g,h,i)perylene	1.506	1.470	2.4	146	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN037811.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037811.D
Acq On : 19 Sep 2025 13:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 13:27:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	116	0.00
2		1,4-Dioxane	0.400	0.407	-1.7	117	0.00
3		n-Nitrosodimethylamine	0.400	0.415	-3.7	117	0.00
4	S	2-Fluorophenol	0.400	0.455	-13.7	136	0.00
5	S	Phenol-d6	0.400	0.395	1.3	118	0.00
6		bis(2-Chloroethyl)ether	0.400	0.391	2.3	113	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	119	-0.01
8	S	Nitrobenzene-d5	0.400	0.399	0.3	122	-0.01
9		Naphthalene	0.400	0.391	2.3	118	-0.01
10		Hexachlorobutadiene	0.400	0.387	3.3	115	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.375	6.3	118	-0.02
12		2-Methylnaphthalene	0.400	0.384	4.0	117	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	119	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.501	-25.2#	154	-0.01
15	S	2-Fluorobiphenyl	0.400	0.386	3.5	116	-0.01
16		Acenaphthylene	0.400	0.370	7.5	113	0.00
17		Acenaphthene	0.400	0.379	5.3	115	-0.01
18		Fluorene	0.400	0.382	4.5	118	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	120	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.332	17.0	112	-0.01
21		4-Bromophenyl-phenylether	0.400	0.369	7.8	115	-0.01
22		Hexachlorobenzene	0.400	0.401	-0.3	123	-0.01
23		Atrazine	0.400	0.375	6.3	123	-0.01
24		Pentachlorophenol	0.400	0.471	-17.7	165	0.00
25		Phenanthrene	0.400	0.391	2.3	121	-0.01
26		Anthracene	0.400	0.378	5.5	118	-0.01
27	SURR	Fluoranthene-d10	0.400	0.381	4.8	123	0.00
28		Fluoranthene	0.400	0.391	2.3	124	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	132	0.00
30		Pyrene	0.400	0.377	5.8	125	0.00
31	S	Terphenyl-d14	0.400	0.377	5.8	126	-0.01
32		Benzo(a)anthracene	0.400	0.379	5.3	129	0.00
33		Chrysene	0.400	0.396	1.0	131	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.446	-11.5	162	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	144	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.447	-11.7	175	-0.02
37		Benzo(b)fluoranthene	0.400	0.389	2.8	142	0.00
38		Benzo(k)fluoranthene	0.400	0.402	-0.5	153	0.00
39	C	Benzo(a)pyrene	0.400	0.388	3.0	147	0.00
40		Dibenzo(a,h)anthracene	0.400	0.437	-9.2	175	-0.02
41		Benzo(g,h,i)perylene	0.400	0.391	2.3	146	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	BNA_N	Calibration Date/Time:	09/19/2025 14:19
Lab File ID:	BN037813.D	Init. Calib. Date(s):	09/11/2025 09/11/2025
EPA Sample No.:	SSTDCCC0.4	Init. Calib. Time(s):	09:56 13:33

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.473		-10.8	20.0
Fluoranthene-d10	1.004	0.897		-10.7	20.0
2-Fluorophenol	0.918	0.947		3.2	20.0
Phenol-d6	1.191	1.079		-9.4	20.0
Nitrobenzene-d5	0.293	0.284		-3.1	20.0
2-Fluorobiphenyl	1.673	1.589		-5.0	20.0
2,4,6-Tribromophenol	0.104	0.121		16.3	20.0
Terphenyl-d14	0.812	0.730		-10.1	20.0
1,4-Dioxane	0.417	0.410		-1.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037813.D
Acq On : 19 Sep 2025 14:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

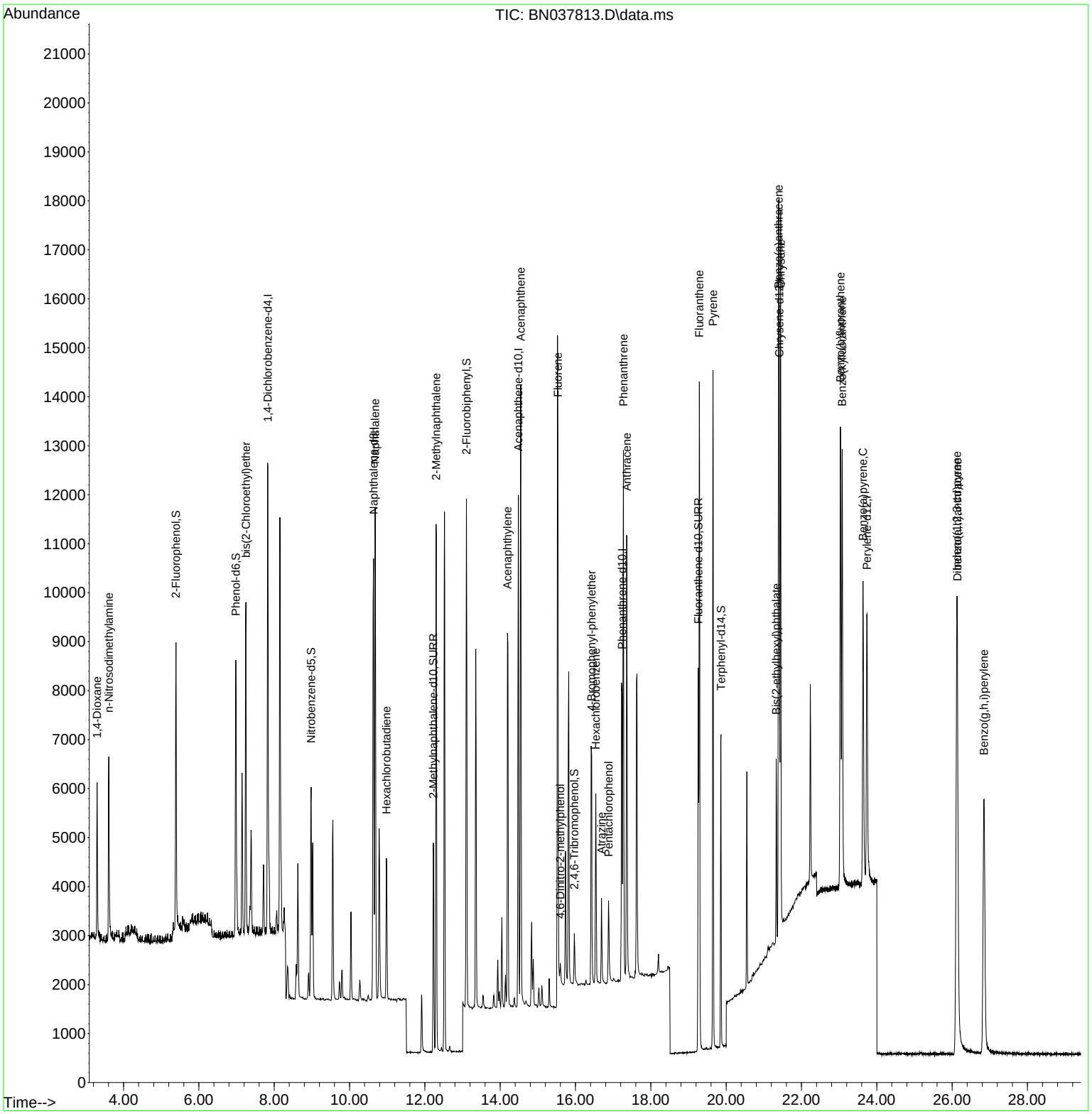
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.833	152	4812	0.400	ng		0.00
7) Naphthalene-d8	10.637	136	12410	0.400	ng		-0.01
13) Acenaphthene-d10	14.484	164	5585	0.400	ng		-0.01
19) Phenanthrene-d10	17.235	188	9638	0.400	ng		# 0.00
29) Chrysene-d12	21.411	240	8466	0.400	ng		0.00
35) Perylene-d12	23.739	264	8084	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.392	112	4556	0.412	ng		0.00
5) Phenol-d6	6.981	99	5192	0.362	ng		0.00
8) Nitrobenzene-d5	8.982	82	3525	0.388	ng		-0.01
11) 2-Methylnaphthalene-d10	12.228	152	5866	0.357	ng		-0.02
14) 2,4,6-Tribromophenol	15.969	330	674	0.463	ng		-0.01
15) 2-Fluorobiphenyl	13.105	172	8872	0.380	ng		-0.01
27) Fluoranthene-d10	19.262	212	8646	0.357	ng		0.00
31) Terphenyl-d14	19.861	244	6183	0.360	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	1973	0.394	ng		96
3) n-Nitrosodimethylamine	3.608	42	2320	0.354	ng		92
6) bis(2-Chloroethyl)ether	7.248	93	4798	0.375	ng		99
9) Naphthalene	10.680	128	13094	0.386	ng		99
10) Hexachlorobutadiene	10.979	225	2398	0.391	ng	#	100
12) 2-Methylnaphthalene	12.299	142	7752	0.369	ng		98
16) Acenaphthylene	14.195	152	9175	0.358	ng		100
17) Acenaphthene	14.548	154	6415	0.370	ng		97
18) Fluorene	15.535	166	7451	0.355	ng		100
20) 4,6-Dinitro-2-methylph...	15.597	198	309	0.346	ng	#	73
21) 4-Bromophenyl-phenylether	16.429	248	2295	0.365	ng	#	95
22) Hexachlorobenzene	16.540	284	3006	0.416	ng		98
23) Atrazine	16.689	200	1460	0.365	ng		96
24) Pentachlorophenol	16.876	266	969	0.462	ng		96
25) Phenanthrene	17.273	178	11575	0.381	ng		100
26) Anthracene	17.360	178	9951	0.370	ng		99
28) Fluoranthene	19.290	202	12394	0.372	ng		100
30) Pyrene	19.652	202	12322	0.372	ng		100
32) Benzo(a)anthracene	21.393	228	10829	0.367	ng		99
33) Chrysene	21.447	228	12256	0.387	ng		99
34) Bis(2-ethylhexyl)phtha...	21.331	149	3318	0.379	ng		99
36) Indeno(1,2,3-cd)pyrene	26.124	276	13502	0.398	ng		98
37) Benzo(b)fluoranthene	23.034	252	12627	0.397	ng	#	95
38) Benzo(k)fluoranthene	23.081	252	12470	0.384	ng	#	95
39) Benzo(a)pyrene	23.633	252	9793	0.384	ng	#	93
40) Dibenzo(a,h)anthracene	26.139	278	10208	0.376	ng		98
41) Benzo(g,h,i)perylene	26.846	276	12010	0.395	ng		99

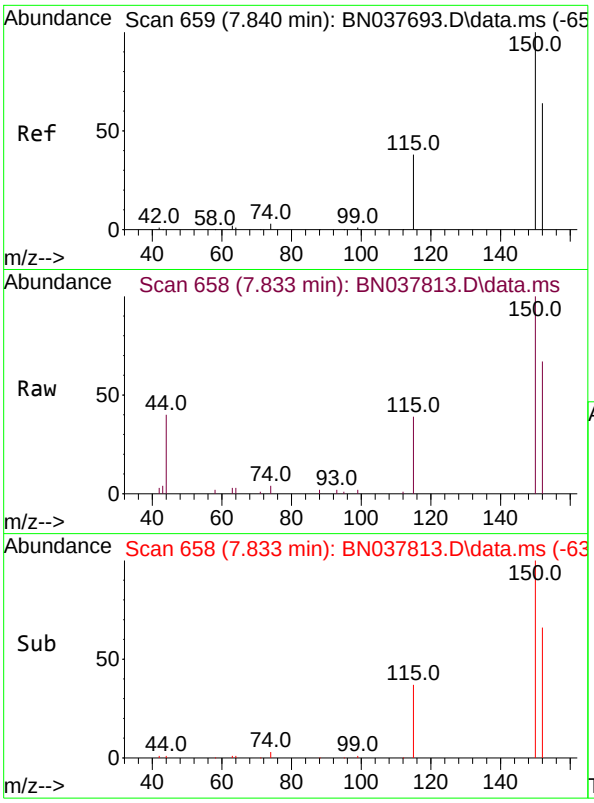
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037813.D
Acq On : 19 Sep 2025 14:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



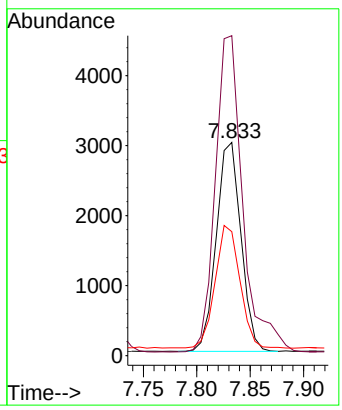


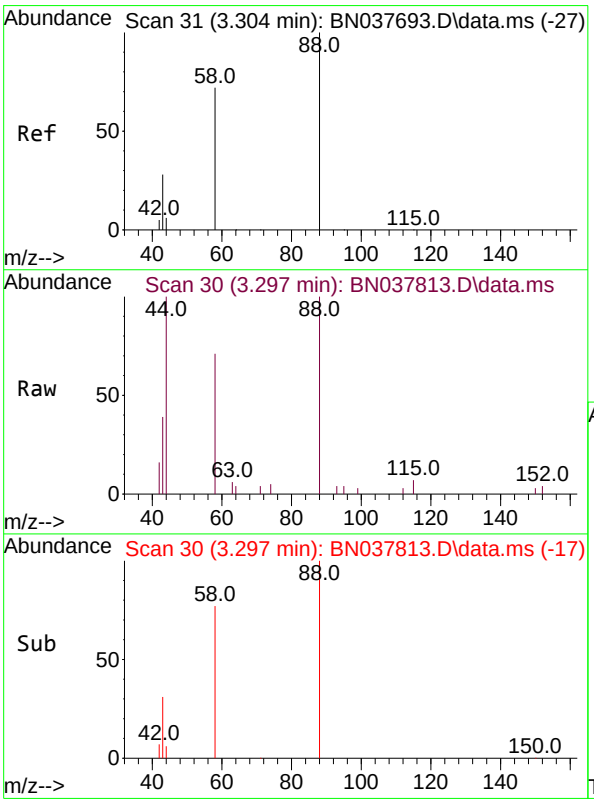
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 4812

Ion	Ratio	Lower	Upper
152	100		
150	150.0	124.5	186.7
115	58.1	49.2	73.8

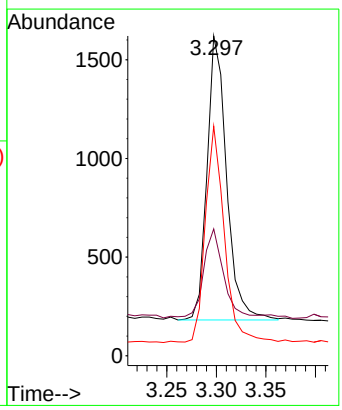


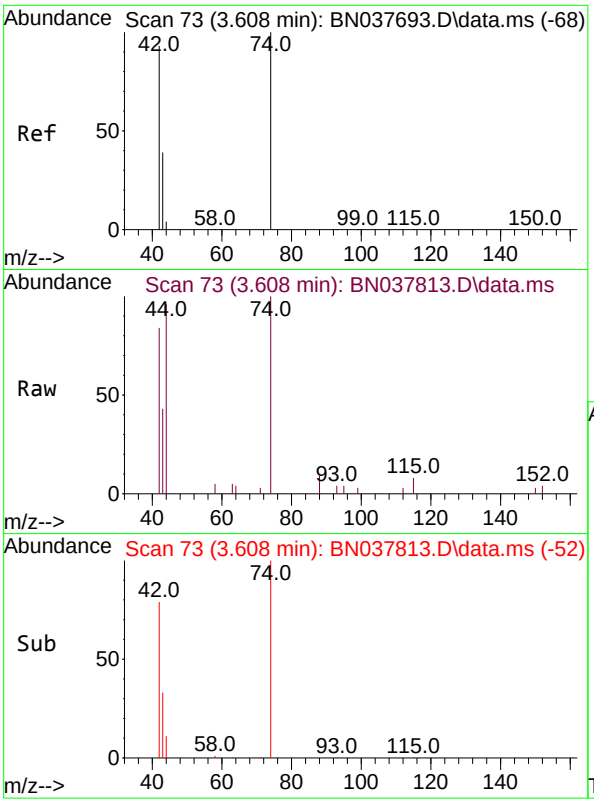


#2
1,4-Dioxane
Concen: 0.394 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion: 88 Resp: 1973

Ion	Ratio	Lower	Upper
88	100		
43	30.5	26.8	40.2
58	74.5	61.9	92.9



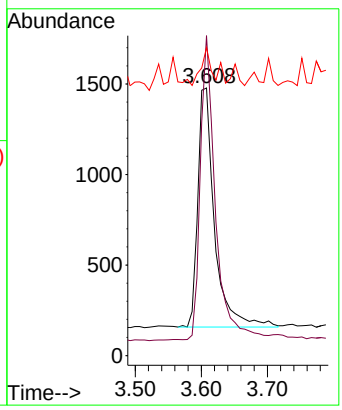


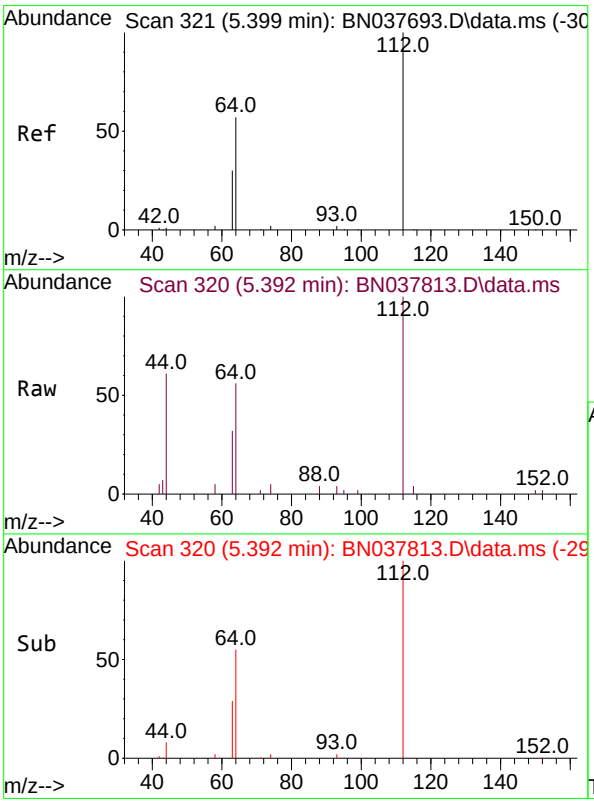
#3
n-Nitrosodimethylamine
Concen: 0.354 ng
RT: 3.608 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2320

Ion	Ratio	Lower	Upper
42	100		
74	116.8	86.0	129.0
44	10.1	8.4	12.6

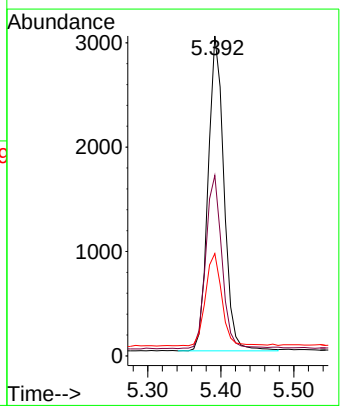


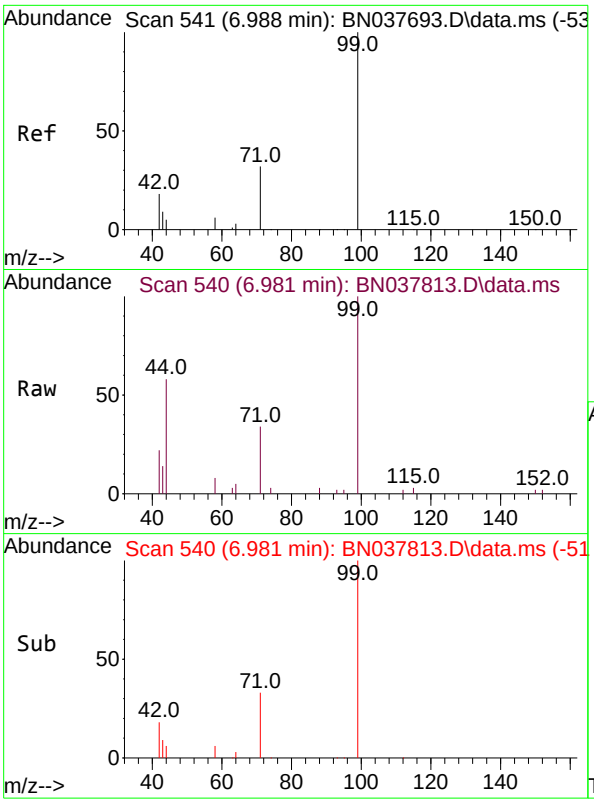


#4
2-Fluorophenol
Concen: 0.412 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:112 Resp: 4556

Ion	Ratio	Lower	Upper
112	100		
64	55.9	44.9	67.3
63	30.0	24.7	37.1



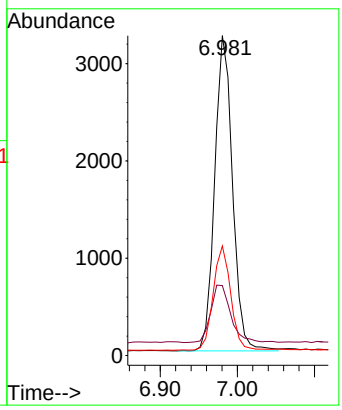


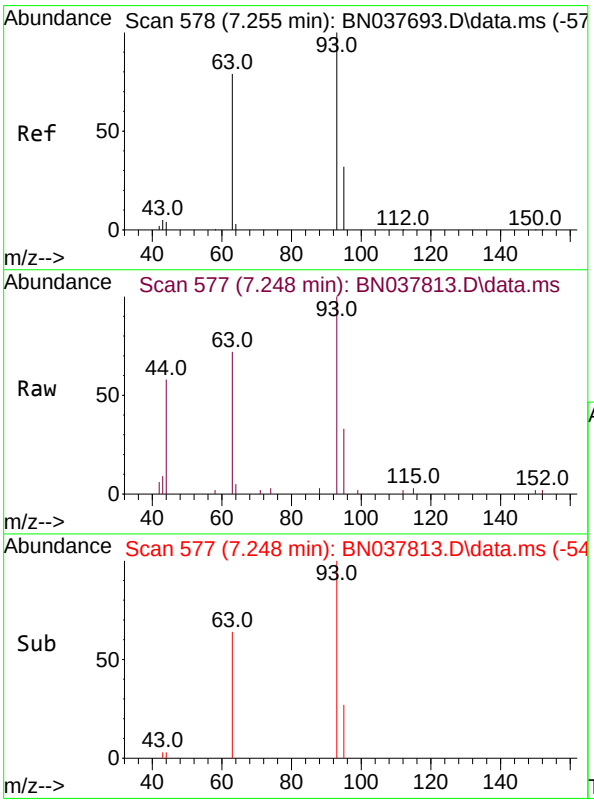
#5
Phenol-d6
Concen: 0.362 ng
RT: 6.981 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 5192

Ion	Ratio	Lower	Upper
99	100		
42	20.6	16.6	24.8
71	33.1	26.7	40.1

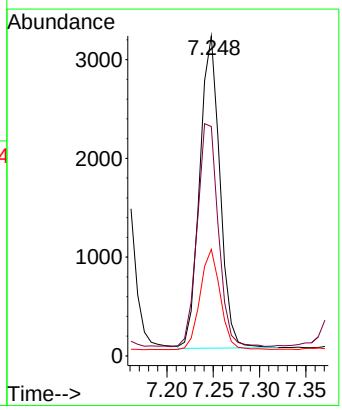


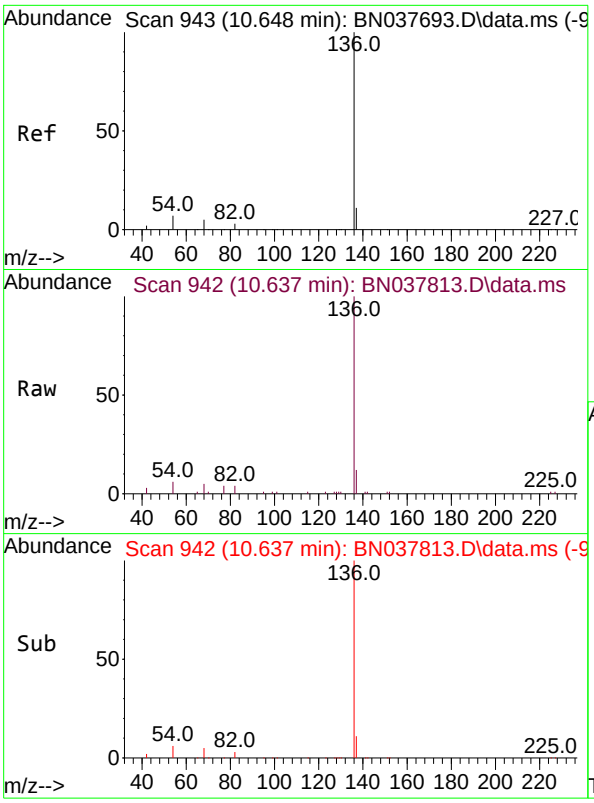


#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion: 93 Resp: 4798

Ion	Ratio	Lower	Upper
93	100		
63	74.7	60.6	90.8
95	32.1	26.0	39.0



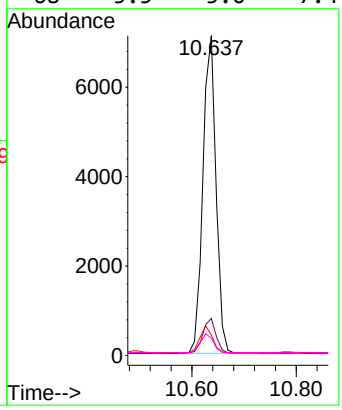


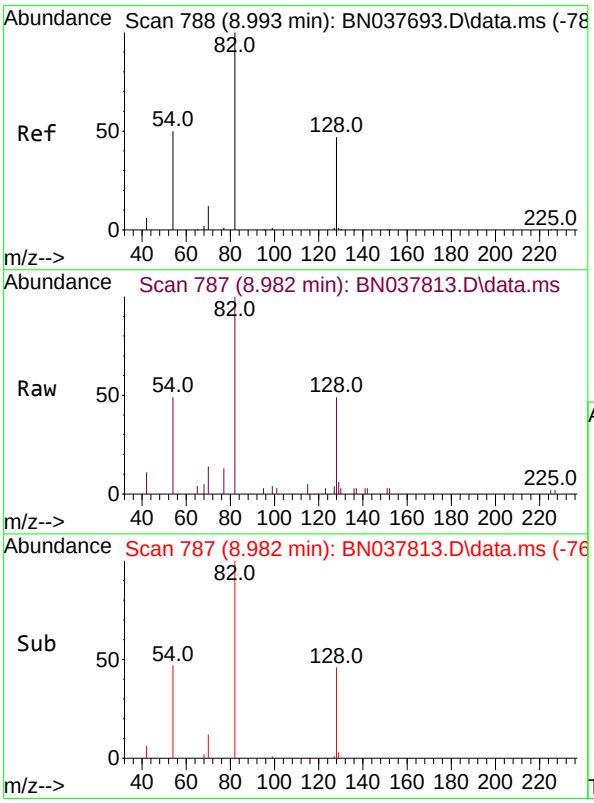
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 12410

Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	6.4	6.3	9.5
68	5.5	5.0	7.4

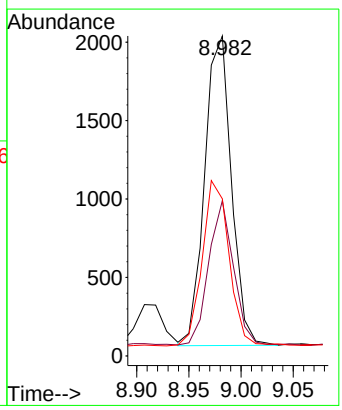


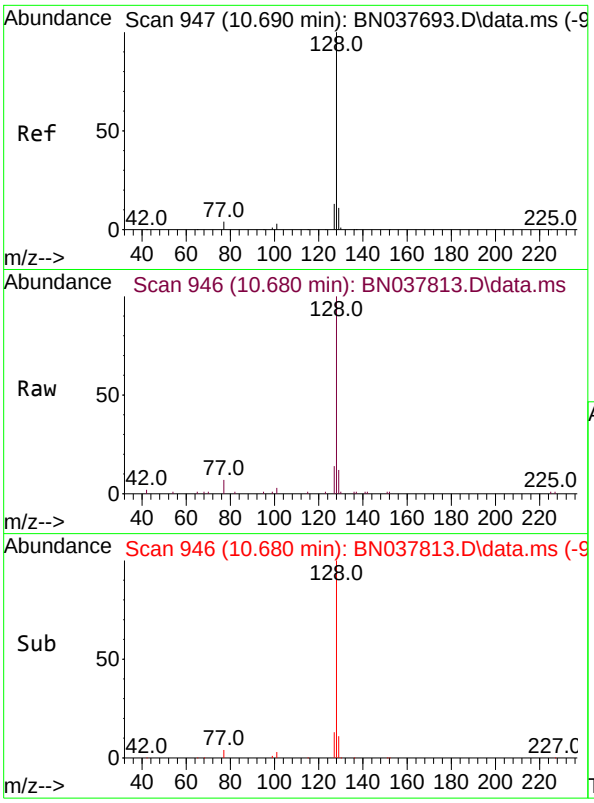


#8
Nitrobenzene-d5
Concen: 0.388 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion: 82 Resp: 3525

Ion	Ratio	Lower	Upper
82	100		
128	48.5	38.3	57.5
54	49.1	41.4	62.2



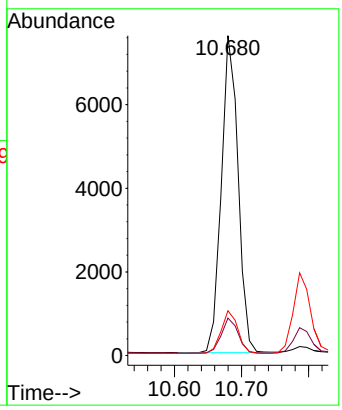


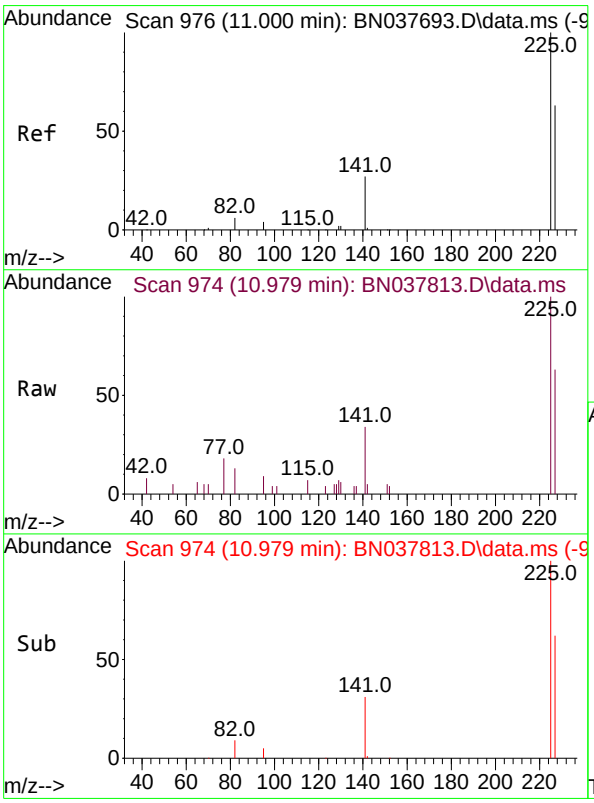
#9
Naphthalene
Concen: 0.386 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 13094

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.1	13.7
127	14.0	10.9	16.3

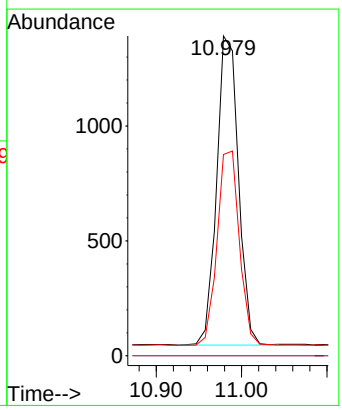


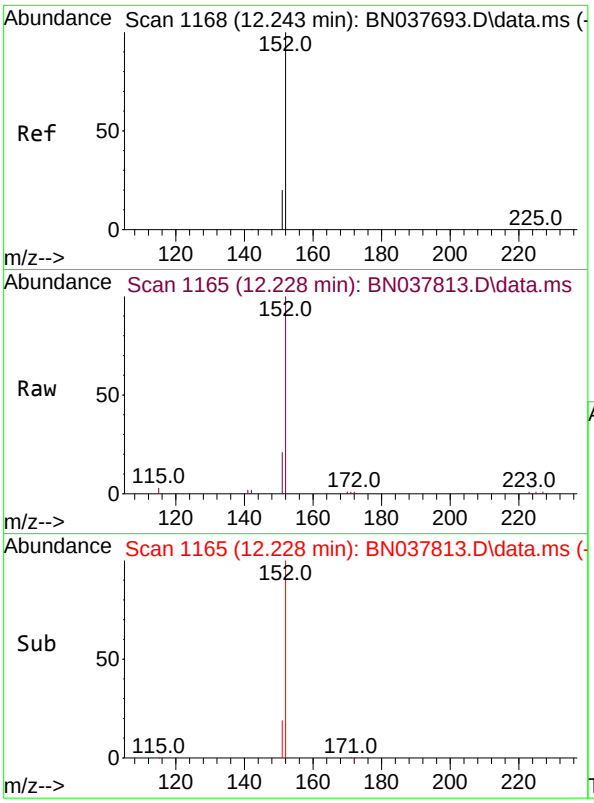


#10
Hexachlorobutadiene
Concen: 0.391 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:225 Resp: 2398

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	50.9	76.3



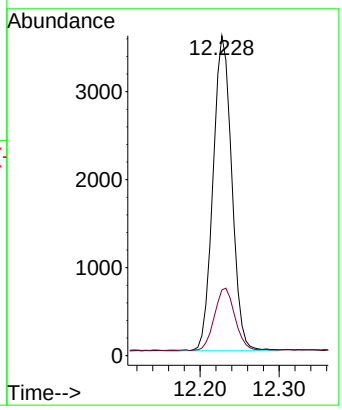


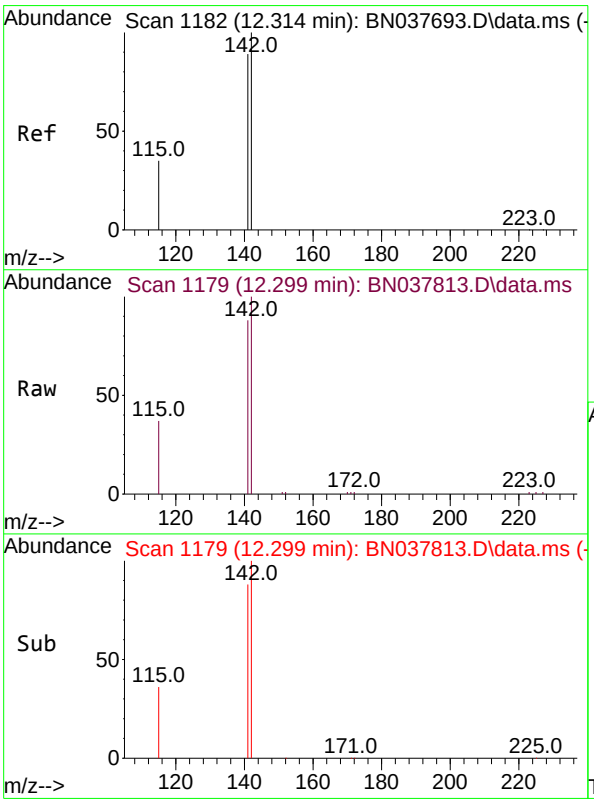
#11
2-Methylnaphthalene-d10
Concen: 0.357 ng
RT: 12.228 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 5866

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.0	25.6

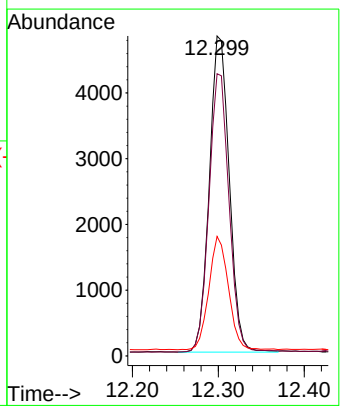


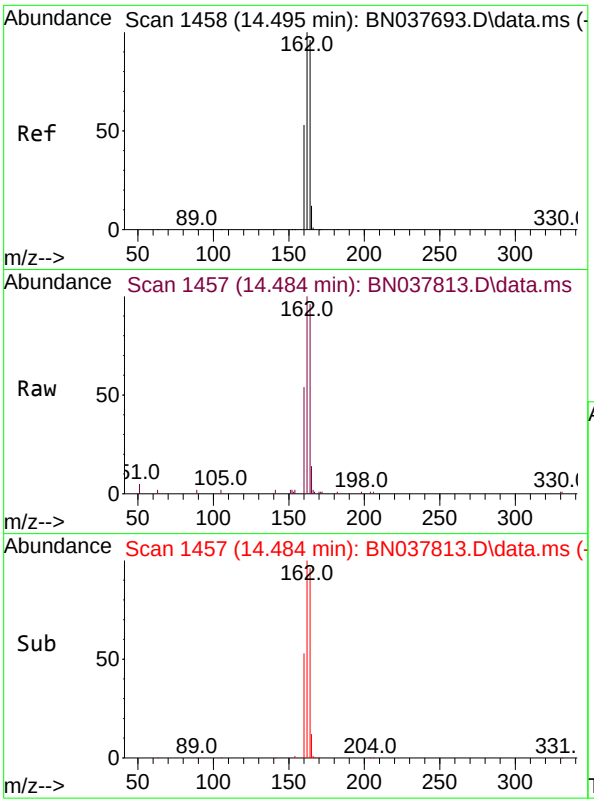


#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 12.299 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:142 Resp: 7752

Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.6	107.4
115	37.3	28.6	43.0



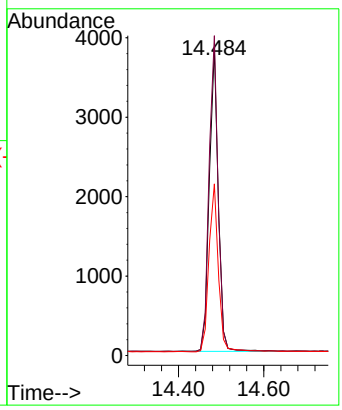


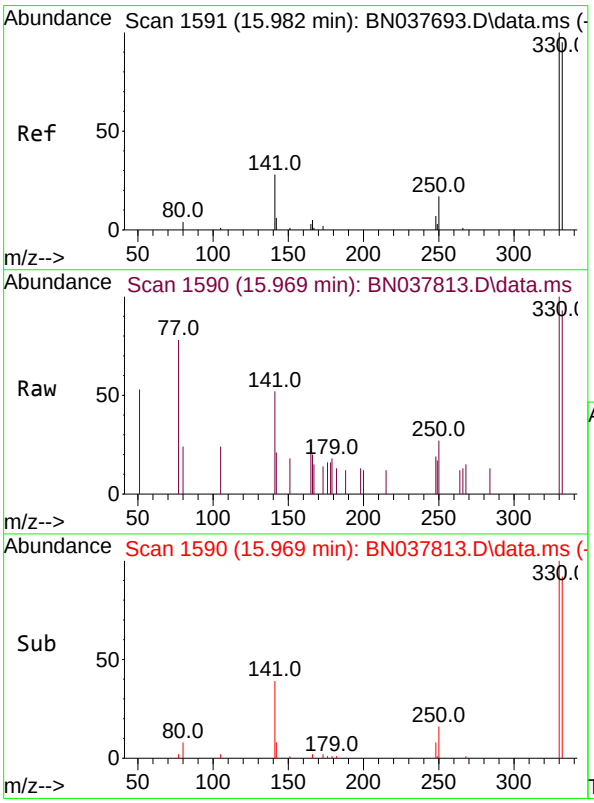
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 5585

Ion	Ratio	Lower	Upper
164	100		
162	104.0	83.1	124.7
160	55.8	44.3	66.5

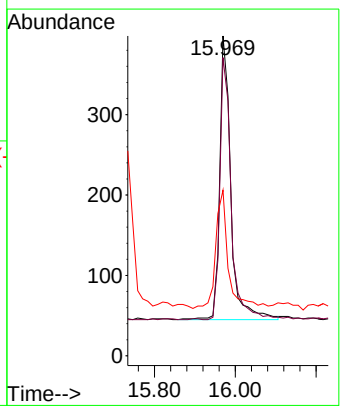


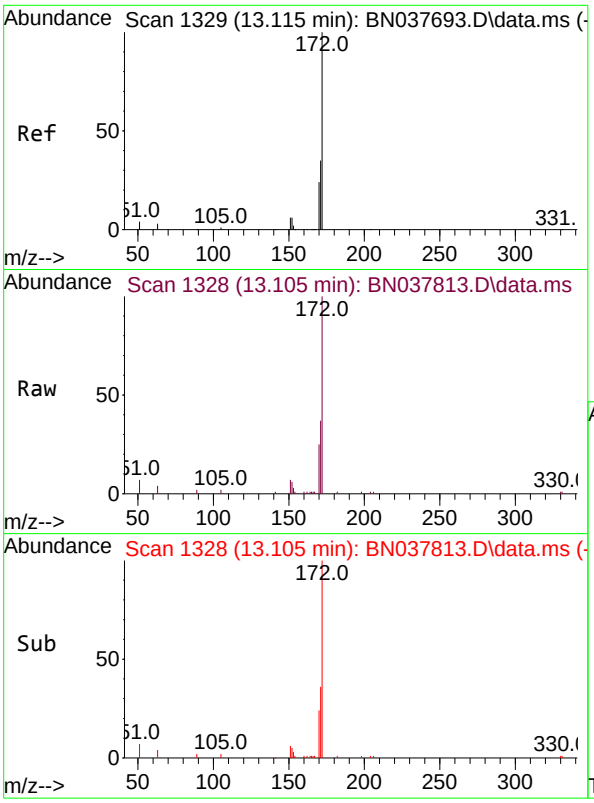


#14
2,4,6-Tribromophenol
Concen: 0.463 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:330 Resp: 674

Ion	Ratio	Lower	Upper
330	100		
332	94.2	75.3	112.9
141	47.2	35.0	52.4



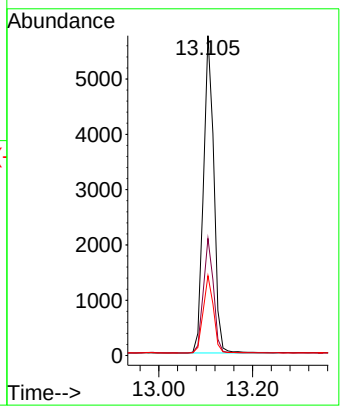


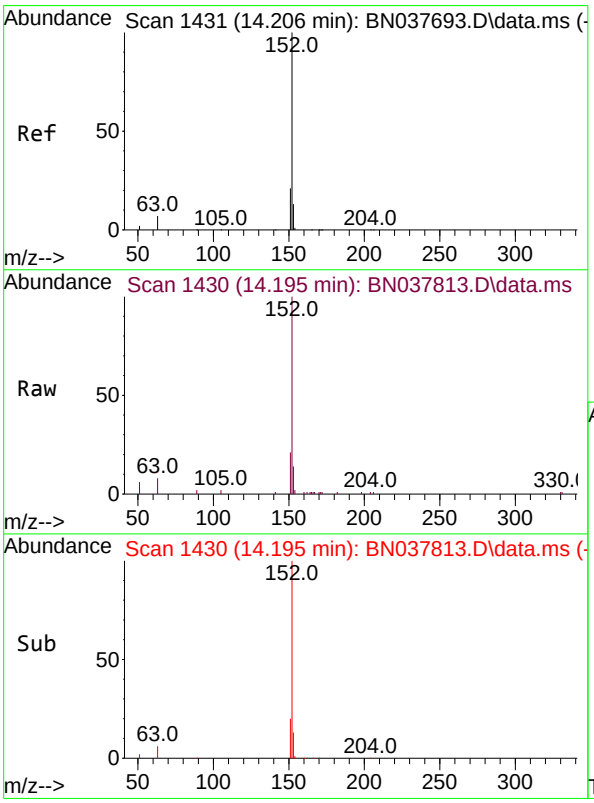
#15
2-Fluorobiphenyl
Concen: 0.380 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 8872

Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.6	43.0
170	25.0	19.8	29.8

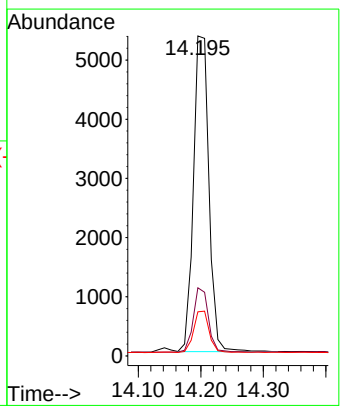


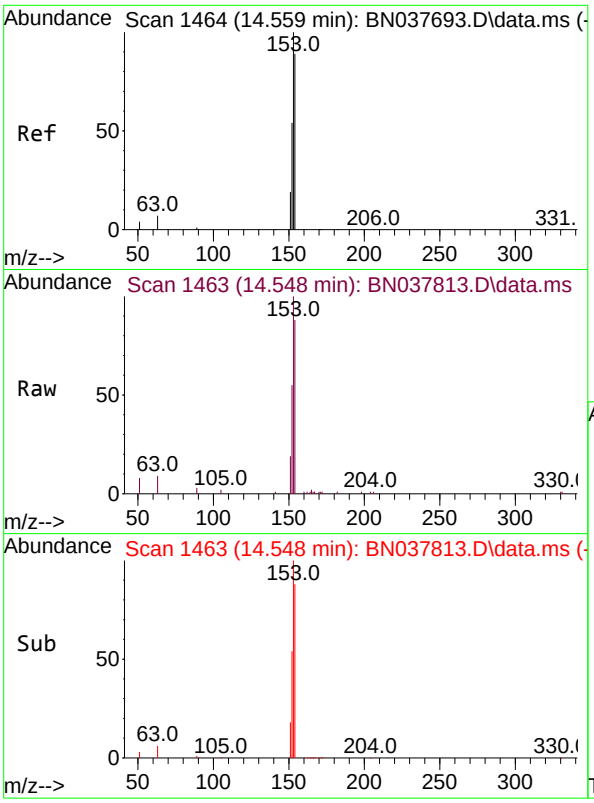


#16
Acenaphthylene
Concen: 0.358 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:152 Resp: 9175

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.4	10.4	15.6



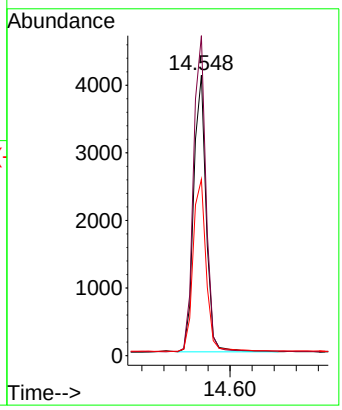


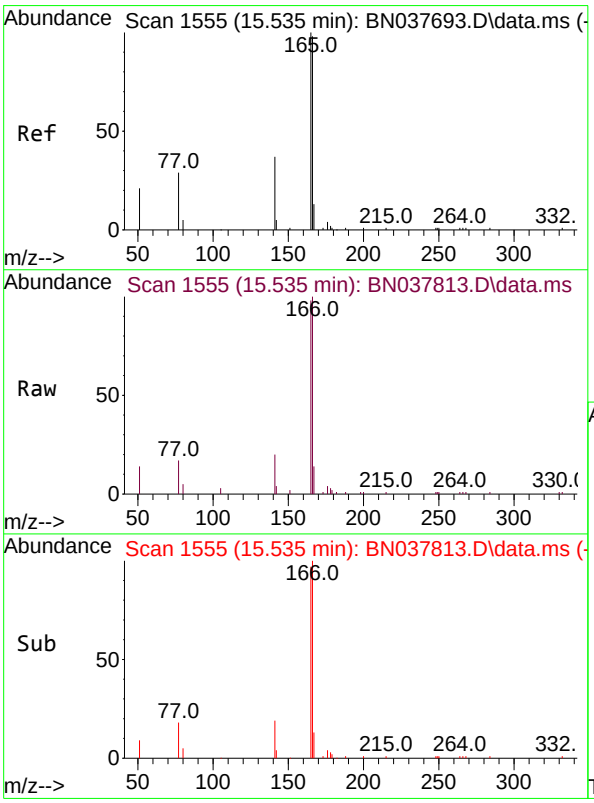
#17
Acenaphthene
Concen: 0.370 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 6415

Ion	Ratio	Lower	Upper
154	100		
153	115.7	89.8	134.8
152	65.5	50.2	75.2

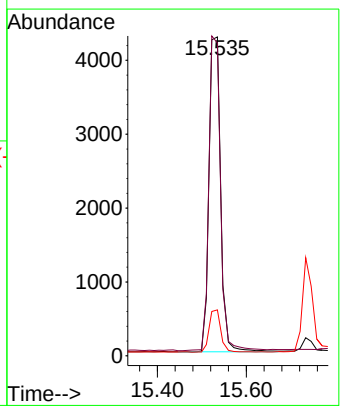


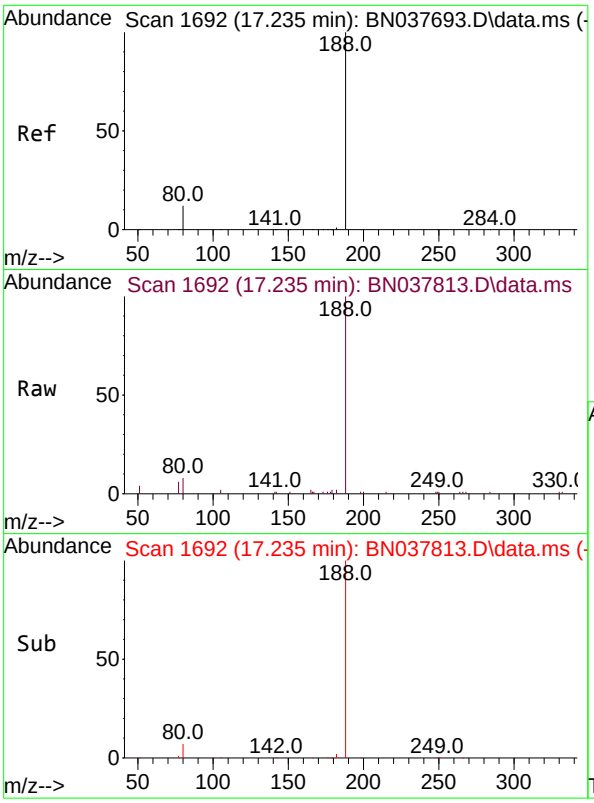


#18
Fluorene
Concen: 0.355 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:166 Resp: 7451

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.6	119.4
167	13.8	10.6	16.0



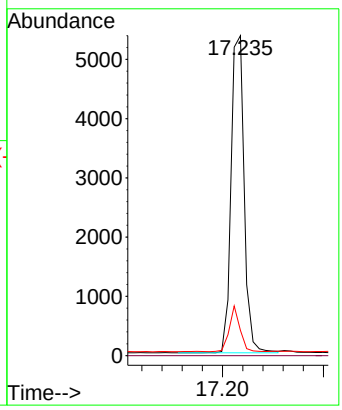


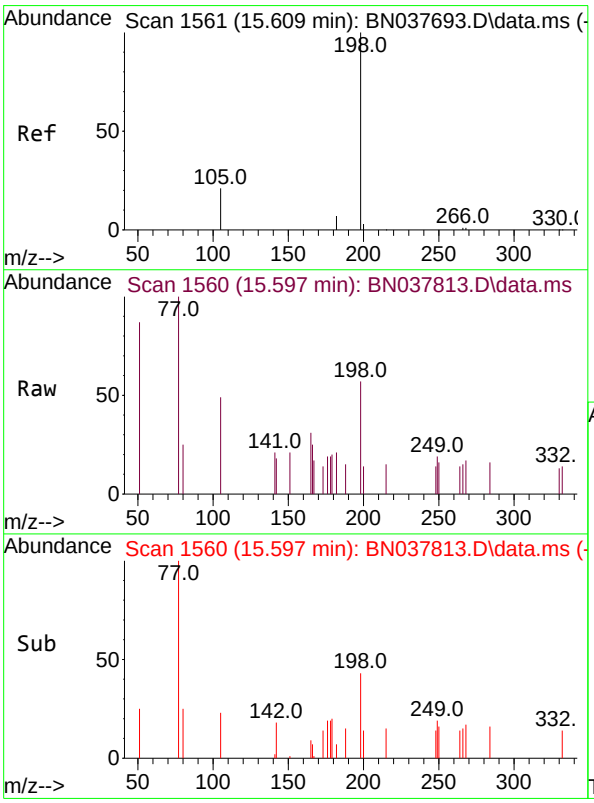
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 9638

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.9	10.6	15.8#

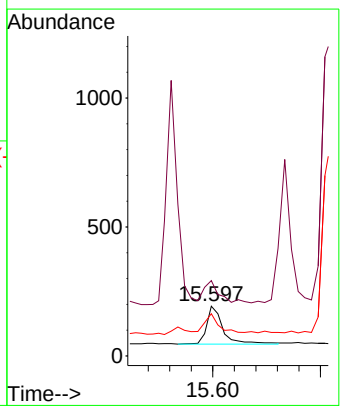


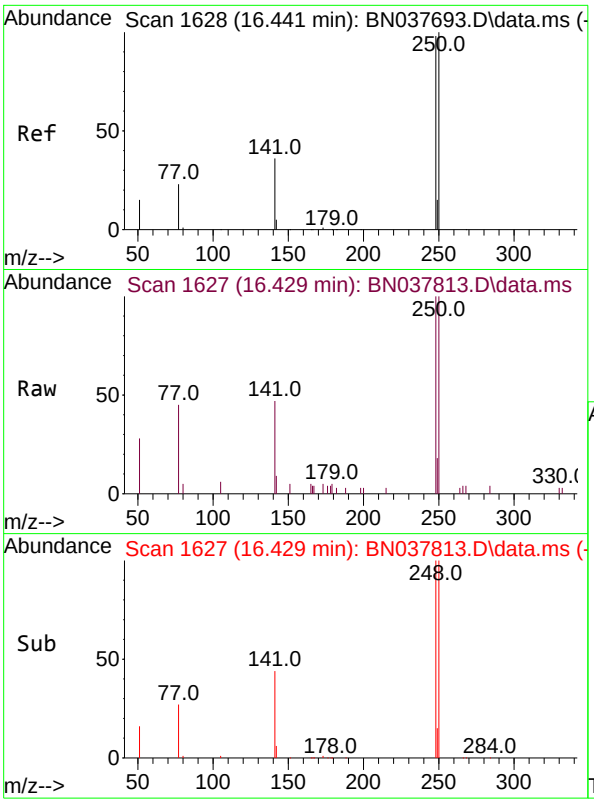


#20
4,6-Dinitro-2-methylphenol
Concen: 0.346 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:198 Resp: 309

Ion	Ratio	Lower	Upper
198	100		
51	151.3	95.1	142.7#
105	85.0	53.8	80.6#



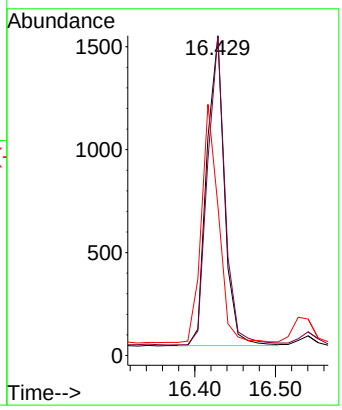


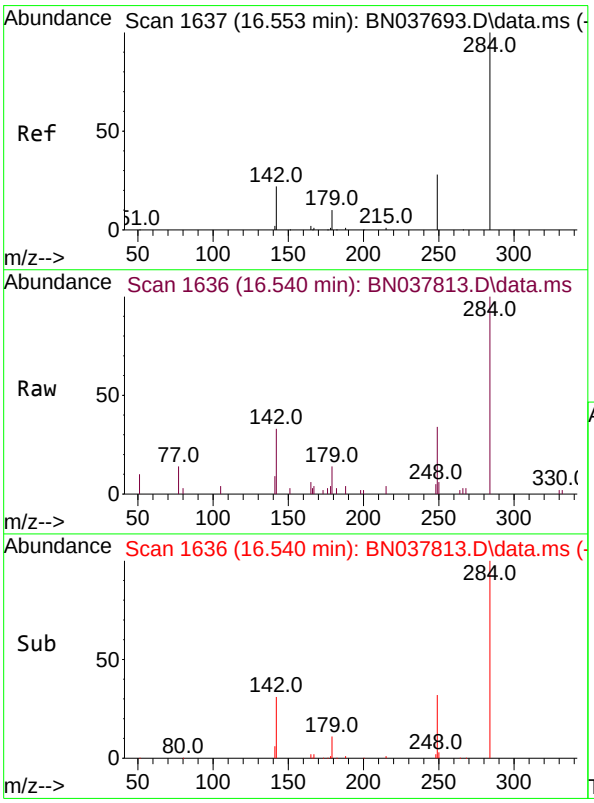
#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2295

Ion	Ratio	Lower	Upper
248	100		
250	100.1	81.5	122.3
141	46.9	30.8	46.2#

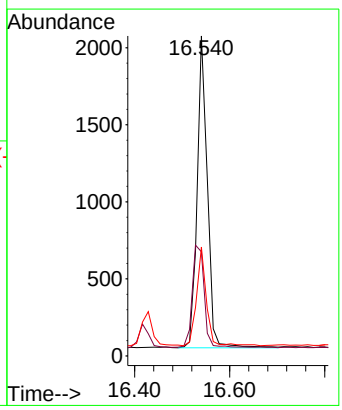


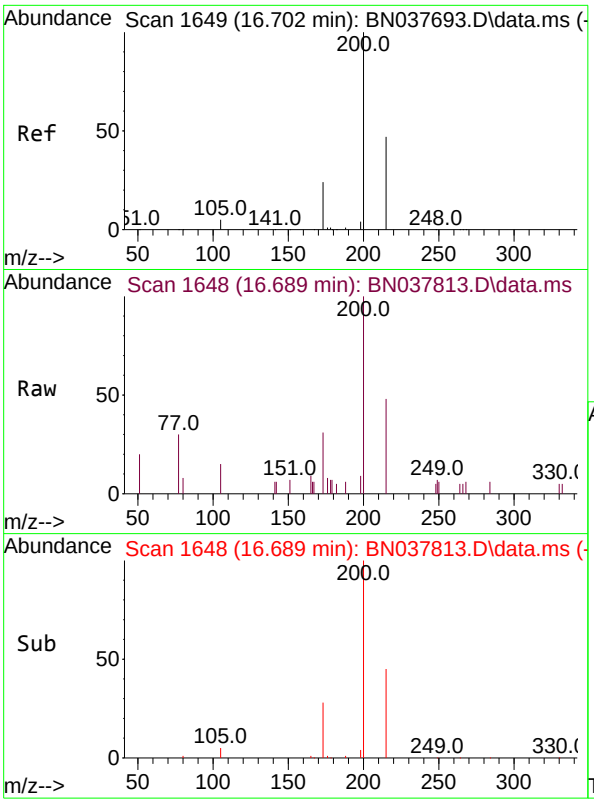


#22
Hexachlorobenzene
Concen: 0.416 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:284 Resp: 3006

Ion	Ratio	Lower	Upper
284	100		
142	38.9	30.9	46.3
249	28.8	24.8	37.2



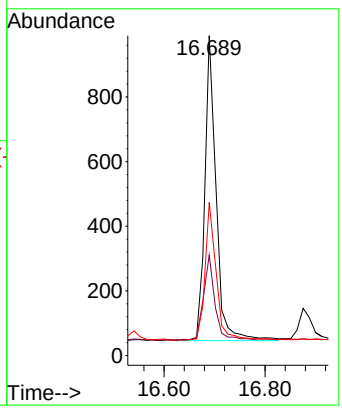


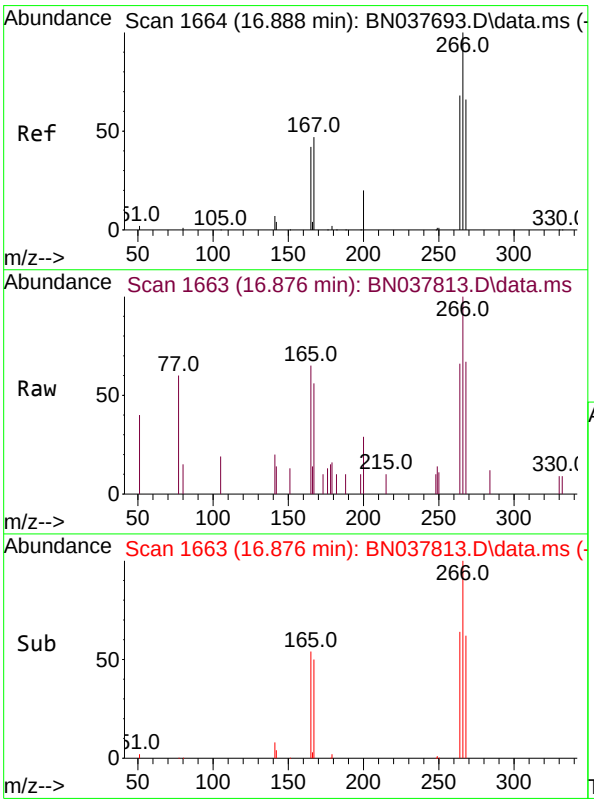
#23
Atrazine
Concen: 0.365 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1460

Ion	Ratio	Lower	Upper
200	100		
173	31.4	21.4	32.2
215	47.9	39.2	58.8

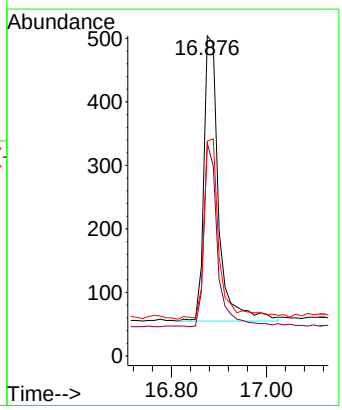


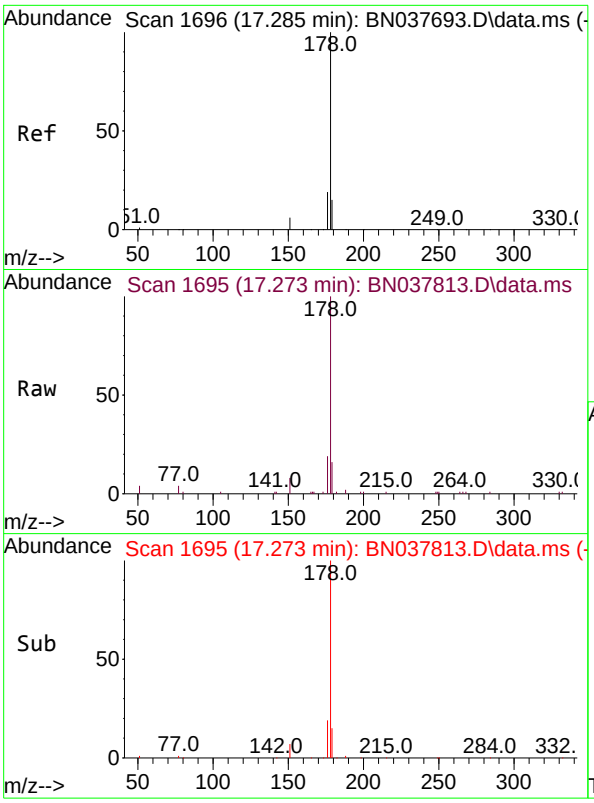


#24
Pentachlorophenol
Concen: 0.462 ng
RT: 16.876 min Scan# 1663
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:266 Resp: 969

Ion	Ratio	Lower	Upper
266	100		
264	59.3	51.6	77.4
268	65.4	53.2	79.8



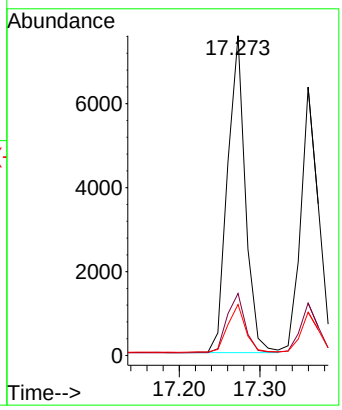


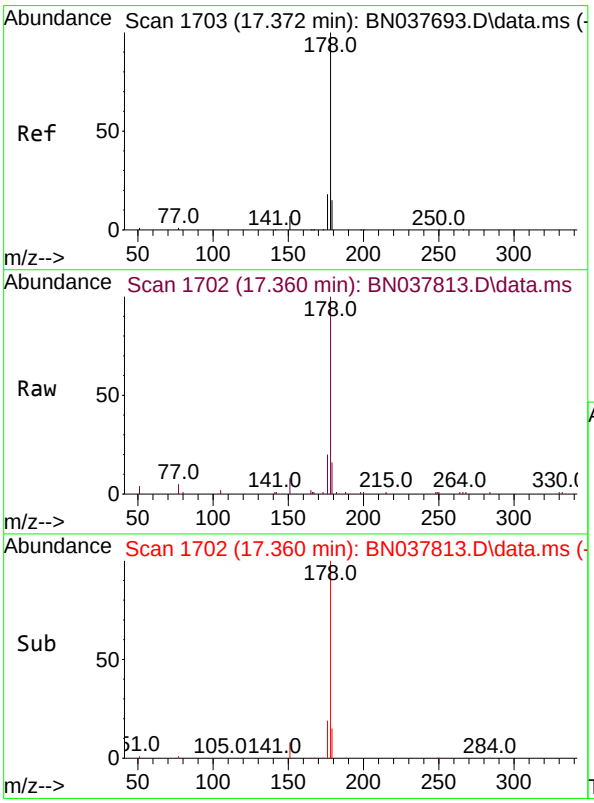
#25
Phenanthrene
Concen: 0.381 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 11575

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.3	12.2	18.2

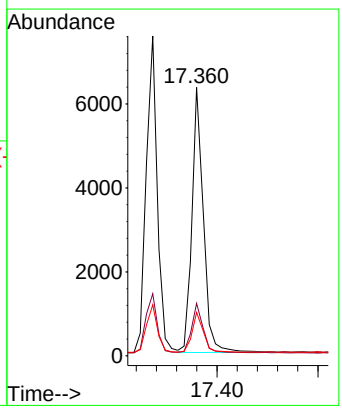


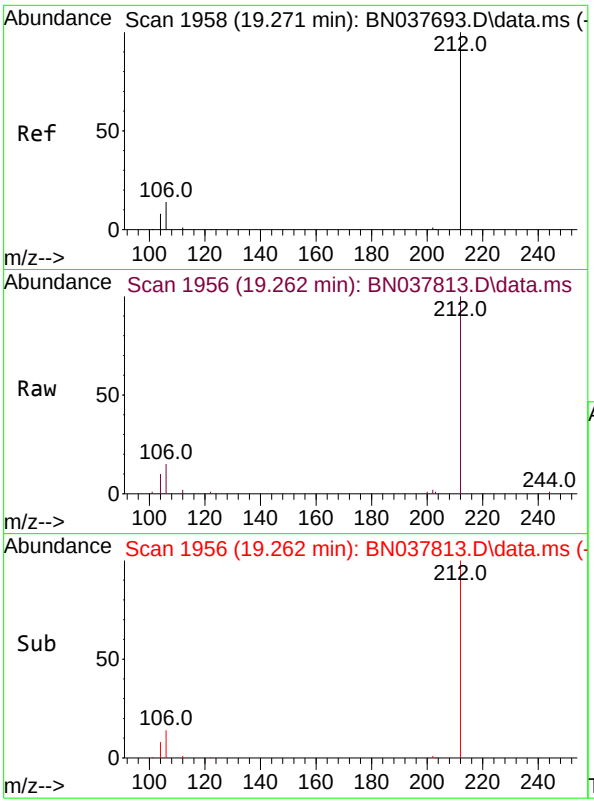


#26
Anthracene
Concen: 0.370 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:178 Resp: 9951

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	14.9	12.2	18.4



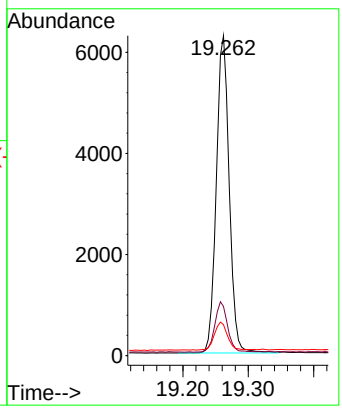


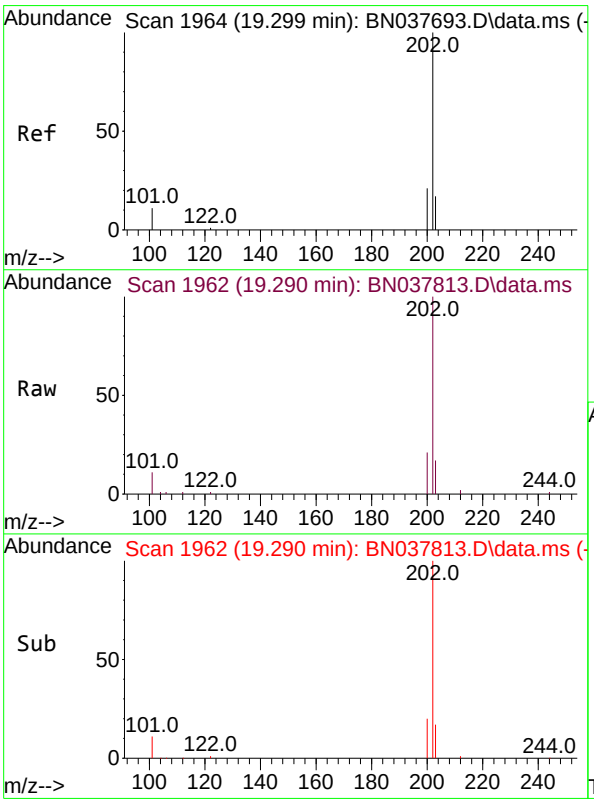
#27
Fluoranthene-d10
Concen: 0.357 ng
RT: 19.262 min Scan# 19
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 8646

Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.2	18.2
104	8.9	6.9	10.3

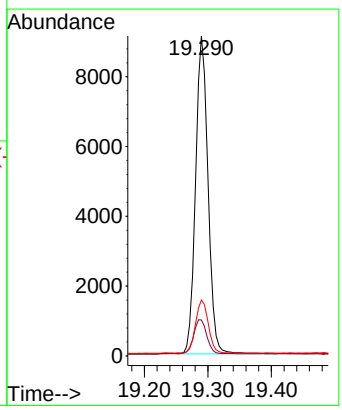


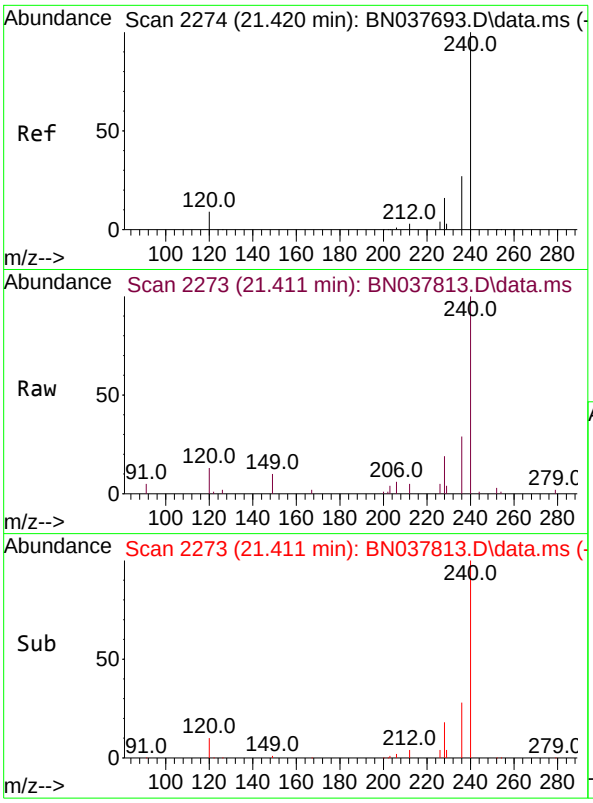


#28
Fluoranthene
Concen: 0.372 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:202 Resp: 12394

Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.3	13.9
203	17.0	13.7	20.5



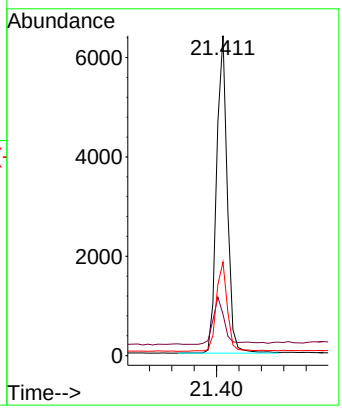


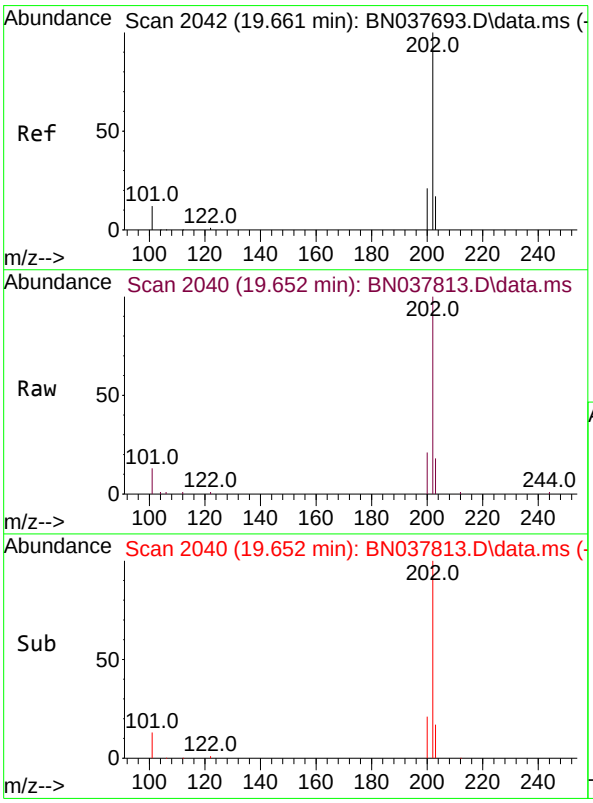
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 8466

Ion	Ratio	Lower	Upper
240	100		
120	12.9	9.2	13.8
236	29.3	22.6	33.8

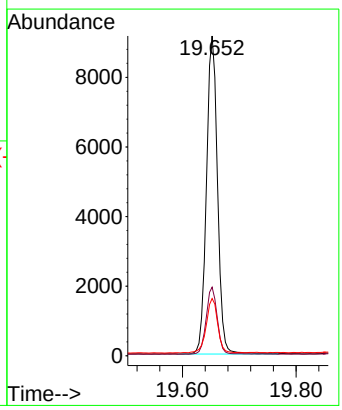


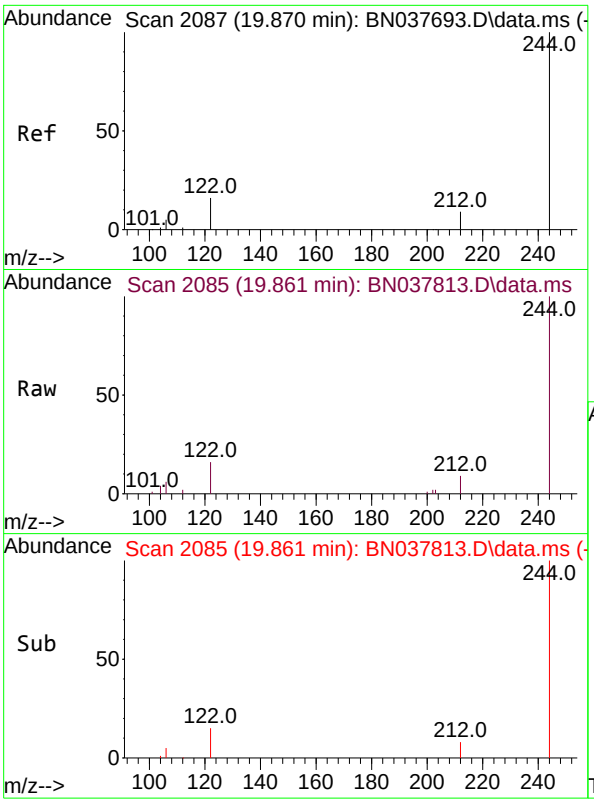


#30
Pyrene
Concen: 0.372 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:202 Resp: 12322

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.6	14.3	21.5



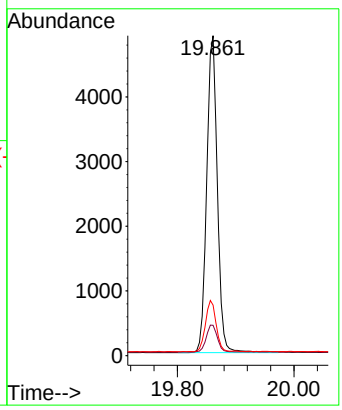


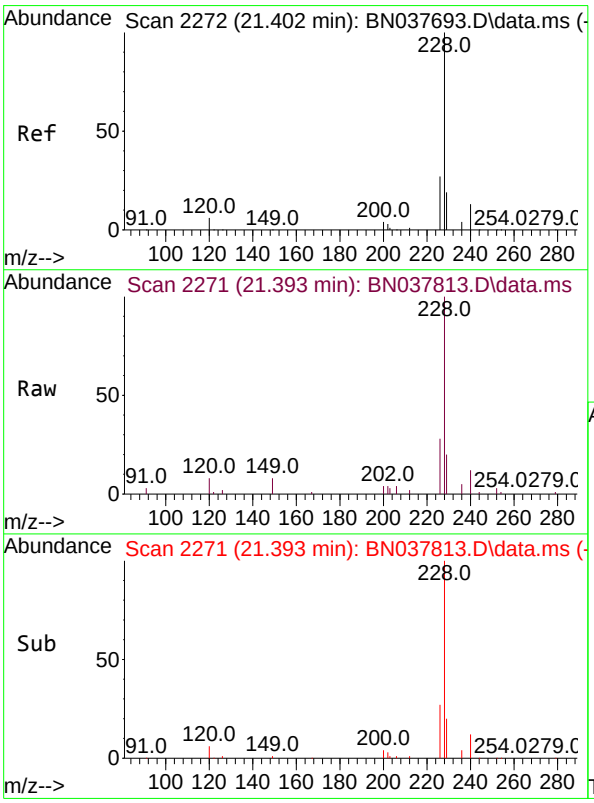
#31
Terphenyl-d14
Concen: 0.360 ng
RT: 19.861 min Scan# 20
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 6183

Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.5	11.3
122	15.8	13.2	19.8

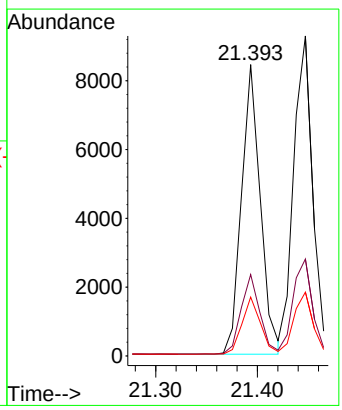


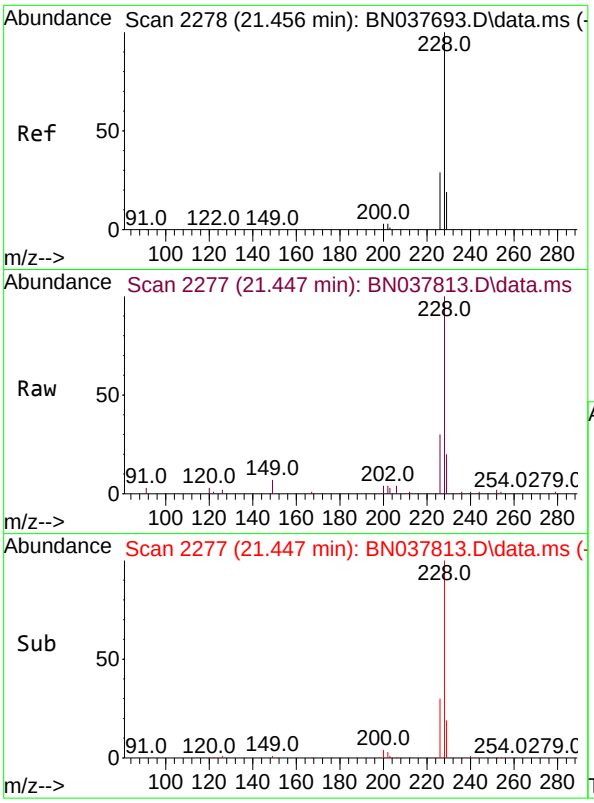


#32
Benzo(a)anthracene
Concen: 0.367 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:228 Resp: 10829

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.2
229	20.2	15.8	23.6



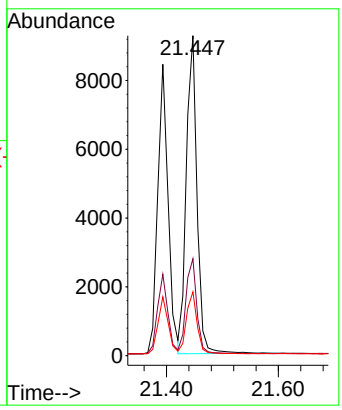


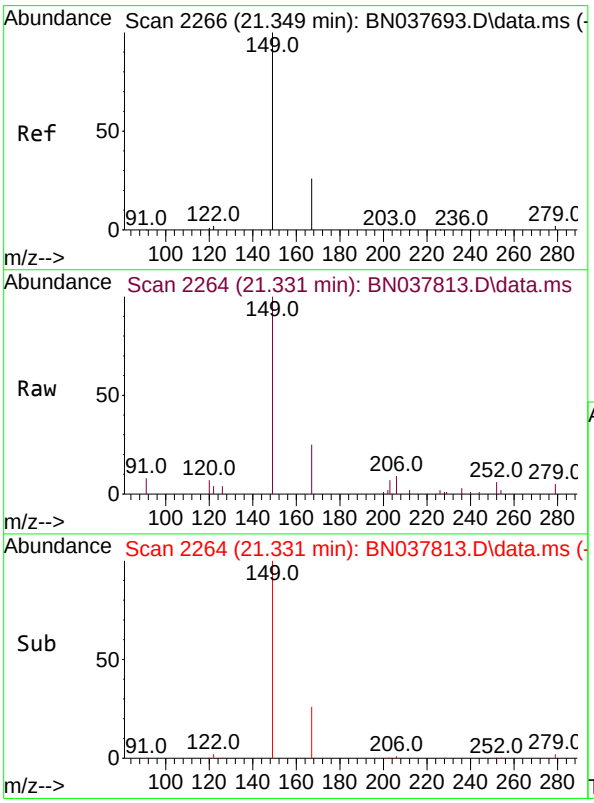
#33
Chrysene
Concen: 0.387 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 12256

Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.5	35.3
229	19.9	15.9	23.9

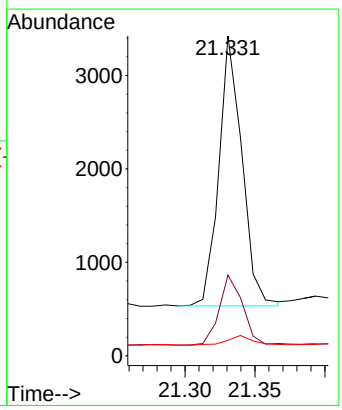


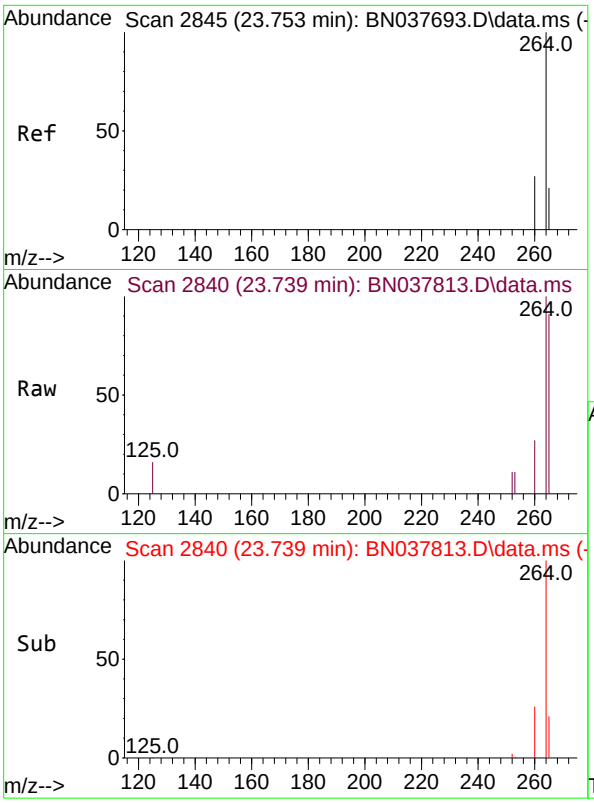


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.379 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:149 Resp: 3318

Ion	Ratio	Lower	Upper
149	100		
167	26.8	20.8	31.2
279	4.2	3.3	4.9



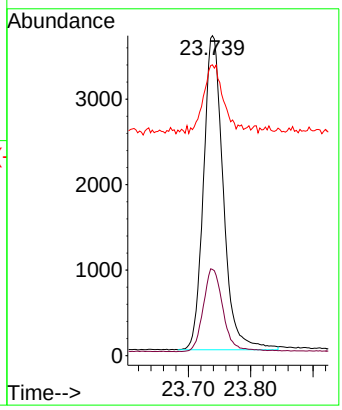


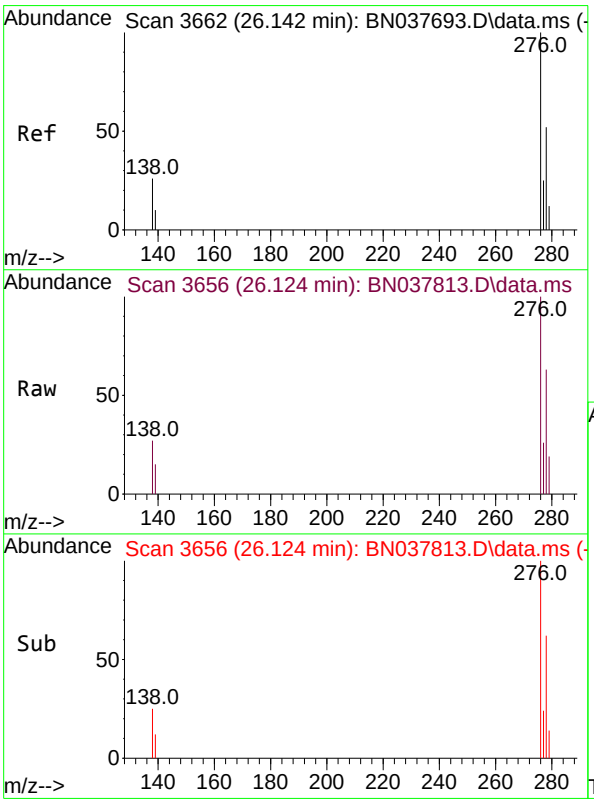
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 28
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 8084

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.8	32.8
265	90.9	39.4	59.2#

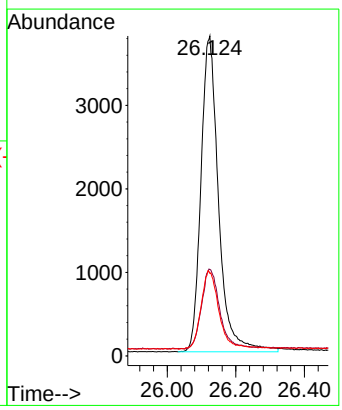


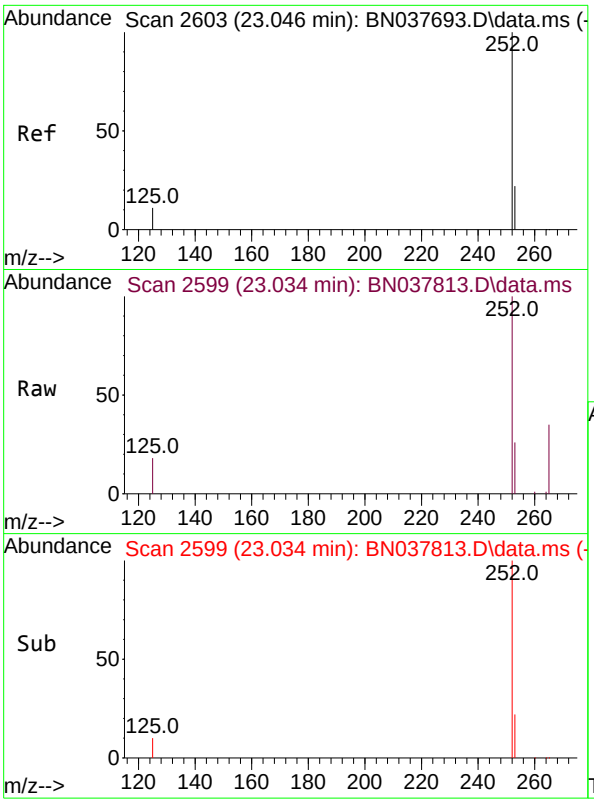


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.398 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:276 Resp: 13502

Ion	Ratio	Lower	Upper
276	100		
138	26.0	21.9	32.9
277	24.9	20.1	30.1



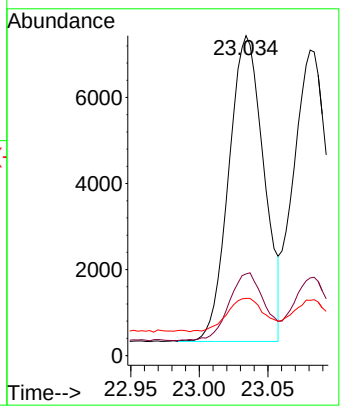


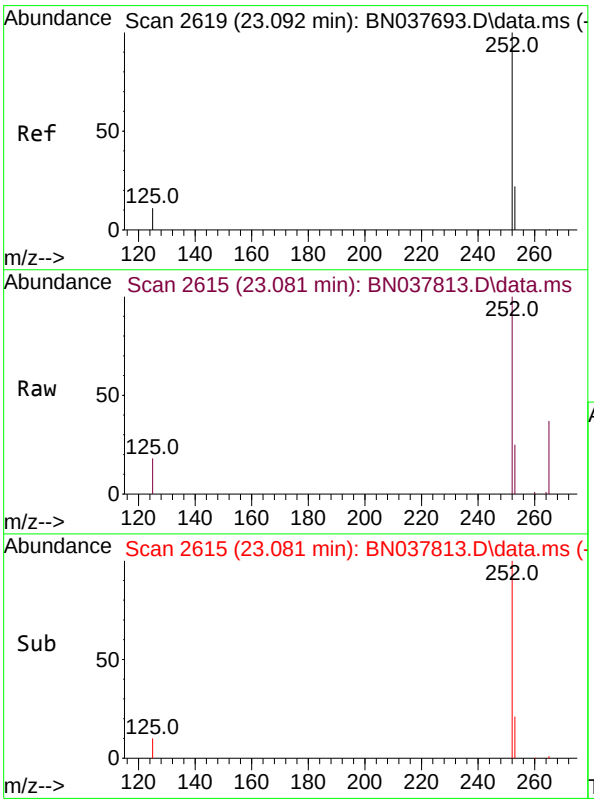
#37
Benzo(b)fluoranthene
Concen: 0.397 ng
RT: 23.034 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 12627

Ion	Ratio	Lower	Upper
252	100		
253	25.5	19.4	29.2
125	17.9	11.2	16.8#

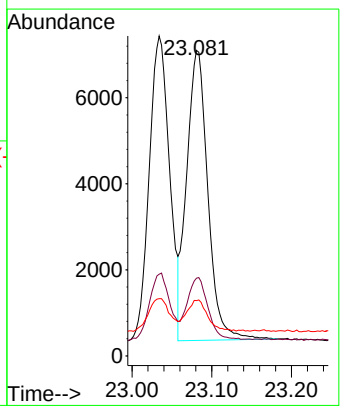


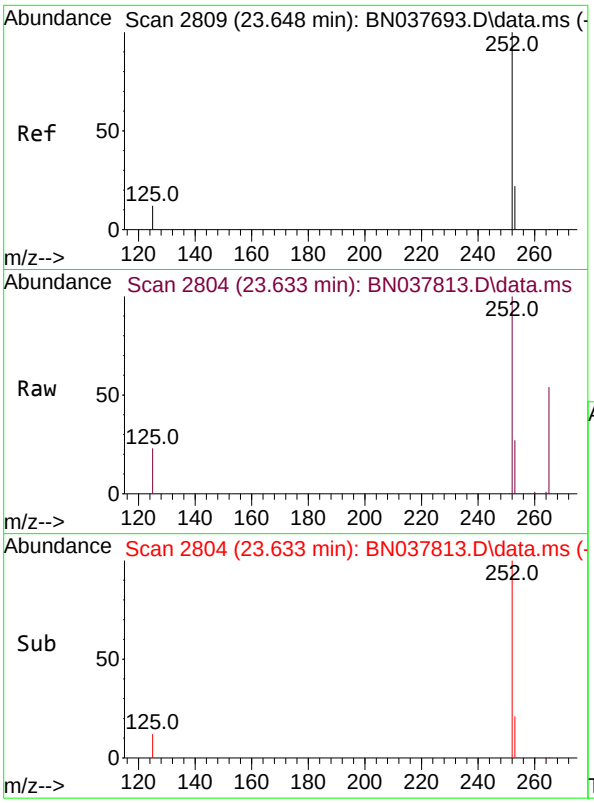


#38
Benzo(k)fluoranthene
Concen: 0.384 ng
RT: 23.081 min Scan# 2615
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:252 Resp: 12470

Ion	Ratio	Lower	Upper
252	100		
253	25.4	19.4	29.0
125	18.1	11.6	17.4#



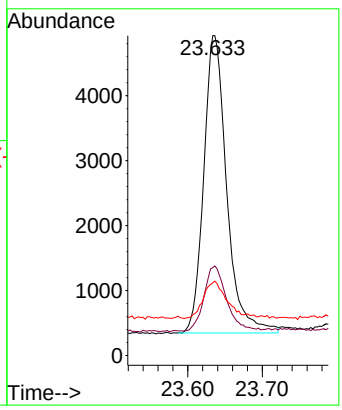


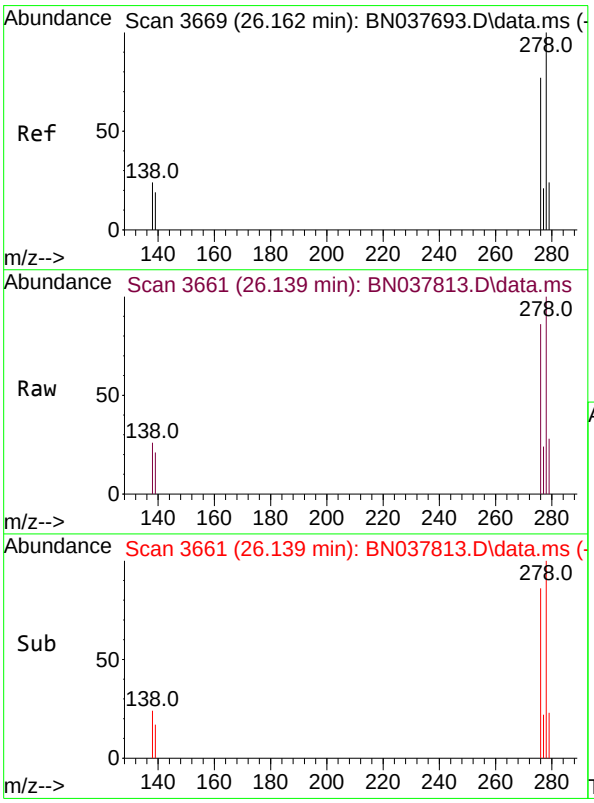
#39
Benzo(a)pyrene
Concen: 0.384 ng
RT: 23.633 min Scan# 28
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 9793

Ion	Ratio	Lower	Upper
252	100		
253	27.5	20.8	31.2
125	22.7	13.9	20.9#

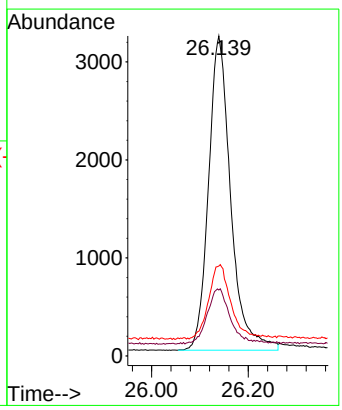


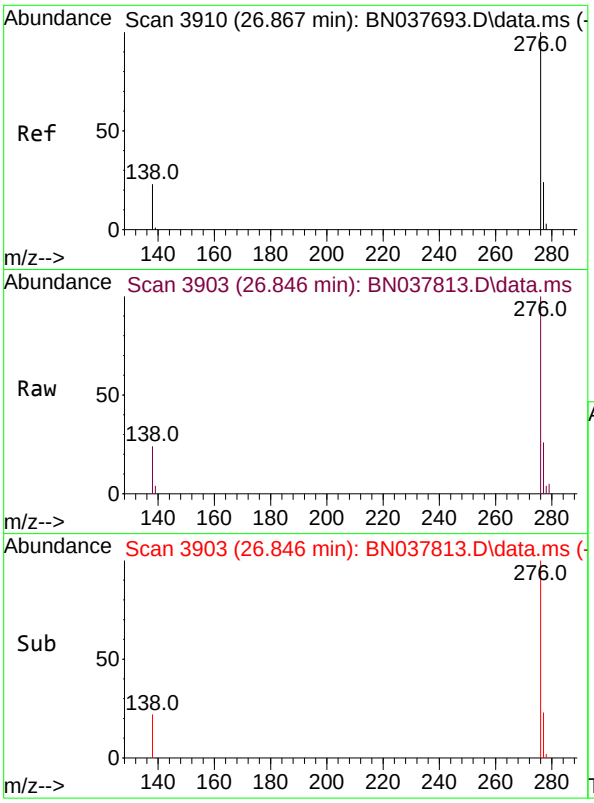


#40
Dibenzo(a,h)anthracene
Concen: 0.376 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.023 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:278 Resp: 10208

Ion	Ratio	Lower	Upper
278	100		
139	20.6	17.8	26.6
279	28.1	22.0	33.0



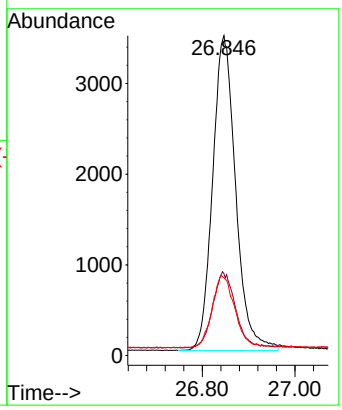


#41
Benzo(g,h,i)perylene
Concen: 0.395 ng
RT: 26.846 min Scan# 3
Delta R.T. -0.020 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 12010

Ion	Ratio	Lower	Upper
276	100		
277	25.6	20.6	31.0
138	24.3	20.2	30.2



Sample Results: **BN037813.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037813.D
Acq On : 19 Sep 2025 14:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
2		1,4-Dioxane	0.417	0.410	1.7	94	0.00
3		n-Nitrosodimethylamine	0.544	0.482	11.4	82	0.00
4	S	2-Fluorophenol	0.918	0.947	-3.2	102	0.00
5	S	Phenol-d6	1.191	1.079	9.4	90	0.00
6		bis(2-Chloroethyl)ether	1.064	0.997	6.3	90	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	94	-0.01
8	S	Nitrobenzene-d5	0.293	0.284	3.1	94	-0.01
9		Naphthalene	1.093	1.055	3.5	92	-0.01
10		Hexachlorobutadiene	0.198	0.193	2.5	92	-0.02
11	SURR	2-Methylnaphthalene-d10	0.530	0.473	10.8	89	-0.02
12		2-Methylnaphthalene	0.676	0.625	7.5	89	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	90	-0.01
14	S	2,4,6-Tribromophenol	0.104	0.121	-16.3	108	-0.01
15	S	2-Fluorobiphenyl	1.673	1.589	5.0	87	-0.01
16		Acenaphthylene	1.834	1.643	10.4	83	-0.01
17		Acenaphthene	1.240	1.149	7.3	85	-0.01
18		Fluorene	1.502	1.334	11.2	83	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	86	0.00
20		4,6-Dinitro-2-methylphenol	0.037	0.032	13.5	83	-0.01
21		4-Bromophenyl-phenylether	0.261	0.238	8.8	81	-0.01
22		Hexachlorobenzene	0.300	0.312	-4.0	91	-0.01
23		Atrazine	0.166	0.151	9.0	86	-0.01
24		Pentachlorophenol	0.087	0.101	-16.1	115	-0.01
25		Phenanthrene	1.259	1.201	4.6	84	-0.01
26		Anthracene	1.116	1.032	7.5	83	-0.01
27	SURR	Fluoranthene-d10	1.004	0.897	10.7	82	0.00
28		Fluoranthene	1.381	1.286	6.9	84	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	90	0.00
30		Pyrene	1.566	1.455	7.1	84	0.00
31	S	Terphenyl-d14	0.812	0.730	10.1	82	0.00
32		Benzo(a)anthracene	1.395	1.279	8.3	86	0.00
33		Chrysene	1.496	1.448	3.2	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.414	0.392	5.3	94	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	90	-0.01
36		Indeno(1,2,3-cd)pyrene	1.681	1.670	0.7	98	-0.02
37		Benzo(b)fluoranthene	1.575	1.562	0.8	91	-0.01
38		Benzo(k)fluoranthene	1.606	1.543	3.9	91	-0.01
39	C	Benzo(a)pyrene	1.261	1.211	4.0	91	-0.01
40		Dibenzo(a,h)anthracene	1.342	1.263	5.9	94	-0.02
41		Benzo(g,h,i)perylene	1.506	1.486	1.3	92	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN037813.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037813.D
Acq On : 19 Sep 2025 14:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	96	0.00
2		1,4-Dioxane	0.400	0.394	1.5	94	0.00
3		n-Nitrosodimethylamine	0.400	0.354	11.5	82	0.00
4	S	2-Fluorophenol	0.400	0.412	-3.0	102	0.00
5	S	Phenol-d6	0.400	0.362	9.5	90	0.00
6		bis(2-Chloroethyl)ether	0.400	0.375	6.3	90	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	94	-0.01
8	S	Nitrobenzene-d5	0.400	0.388	3.0	94	-0.01
9		Naphthalene	0.400	0.386	3.5	92	-0.01
10		Hexachlorobutadiene	0.400	0.391	2.3	92	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.357	10.8	89	-0.02
12		2-Methylnaphthalene	0.400	0.369	7.8	89	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	90	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.463	-15.8	108	-0.01
15	S	2-Fluorobiphenyl	0.400	0.380	5.0	87	-0.01
16		Acenaphthylene	0.400	0.358	10.5	83	-0.01
17		Acenaphthene	0.400	0.370	7.5	85	-0.01
18		Fluorene	0.400	0.355	11.3	83	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	86	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.346	13.5	83	-0.01
21		4-Bromophenyl-phenylether	0.400	0.365	8.8	81	-0.01
22		Hexachlorobenzene	0.400	0.416	-4.0	91	-0.01
23		Atrazine	0.400	0.365	8.8	86	-0.01
24		Pentachlorophenol	0.400	0.462	-15.5	115	-0.01
25		Phenanthrene	0.400	0.381	4.8	84	-0.01
26		Anthracene	0.400	0.370	7.5	83	-0.01
27	SURR	Fluoranthene-d10	0.400	0.357	10.8	82	0.00
28		Fluoranthene	0.400	0.372	7.0	84	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	90	0.00
30		Pyrene	0.400	0.372	7.0	84	0.00
31	S	Terphenyl-d14	0.400	0.360	10.0	82	0.00
32		Benzo(a)anthracene	0.400	0.367	8.3	86	0.00
33		Chrysene	0.400	0.387	3.3	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.379	5.3	94	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	90	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.398	0.5	98	-0.02
37		Benzo(b)fluoranthene	0.400	0.397	0.8	91	-0.01
38		Benzo(k)fluoranthene	0.400	0.384	4.0	91	-0.01
39	C	Benzo(a)pyrene	0.400	0.384	4.0	91	-0.01
40		Dibenzo(a,h)anthracene	0.400	0.376	6.0	94	-0.02
41		Benzo(g,h,i)perylene	0.400	0.395	1.3	92	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	BNA_N	Calibration Date/Time:	09/20/2025 00:39
Lab File ID:	BN037830.D	Init. Calib. Date(s):	09/11/2025 09/11/2025
EPA Sample No.:	SSTDCCC0.4EC	Init. Calib. Time(s):	09:56 13:33

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.471		-11.1	50.0
Fluoranthene-d10	1.004	0.971		-3.3	50.0
2-Fluorophenol	0.918	0.830		-9.6	50.0
Phenol-d6	1.191	1.088		-8.6	50.0
Nitrobenzene-d5	0.293	0.282		-3.8	50.0
2-Fluorobiphenyl	1.673	1.621		-3.1	50.0
2,4,6-Tribromophenol	0.104	0.105		1.0	50.0
Terphenyl-d14	0.812	0.741		-8.7	50.0
1,4-Dioxane	0.417	0.395		-5.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037830.D
Acq On : 20 Sep 2025 00:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 20 01:04:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

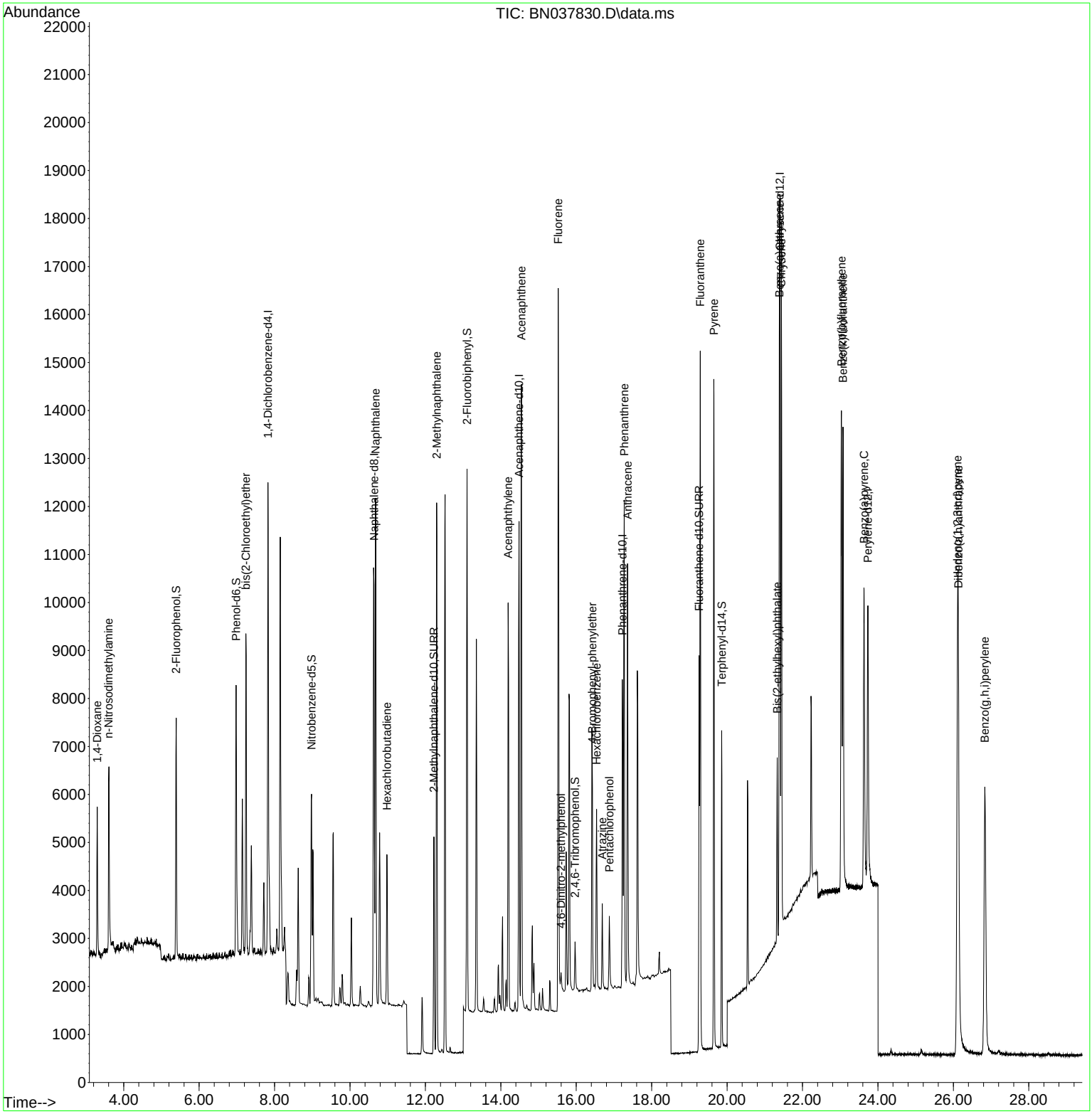
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.826	152	4763	0.400	ng		-0.01
7) Naphthalene-d8	10.637	136	12882	0.400	ng		#-0.01
13) Acenaphthene-d10	14.484	164	5757	0.400	ng		-0.01
19) Phenanthrene-d10	17.223	188	9339	0.400	ng		-0.01
29) Chrysene-d12	21.402	240	8425	0.400	ng		#-0.02
35) Perylene-d12	23.733	264	8348	0.400	ng		#-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	5.392	112	3952	0.361	ng		0.00
5) Phenol-d6	6.981	99	5181	0.365	ng		0.00
8) Nitrobenzene-d5	8.982	82	3636	0.386	ng		-0.01
11) 2-Methylnaphthalene-d10	12.228	152	6061	0.355	ng		-0.02
14) 2,4,6-Tribromophenol	15.969	330	607	0.404	ng		-0.01
15) 2-Fluorobiphenyl	13.105	172	9332	0.388	ng		-0.01
27) Fluoranthene-d10	19.257	212	9064	0.387	ng		-0.01
31) Terphenyl-d14	19.857	244	6240	0.365	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	1880	0.379	ng		98
3) n-Nitrosodimethylamine	3.601	42	2585	0.399	ng		97
6) bis(2-Chloroethyl)ether	7.241	93	4760	0.376	ng		98
9) Naphthalene	10.680	128	13409	0.381	ng		100
10) Hexachlorobutadiene	10.979	225	2479	0.389	ng	#	100
12) 2-Methylnaphthalene	12.299	142	8063	0.370	ng		99
16) Acenaphthylene	14.195	152	9766	0.370	ng		99
17) Acenaphthene	14.548	154	6828	0.382	ng		98
18) Fluorene	15.523	166	7620	0.352	ng		99
20) 4,6-Dinitro-2-methylph...	15.597	198	257	0.297	ng	#	79
21) 4-Bromophenyl-phenylether	16.429	248	2332	0.383	ng		98
22) Hexachlorobenzene	16.540	284	2969	0.424	ng		99
23) Atrazine	16.689	200	1399	0.361	ng		96
24) Pentachlorophenol	16.876	266	830	0.408	ng		95
25) Phenanthrene	17.273	178	11247	0.383	ng		99
26) Anthracene	17.360	178	9601	0.369	ng		99
28) Fluoranthene	19.290	202	12968	0.402	ng		100
30) Pyrene	19.647	202	12812	0.388	ng		100
32) Benzo(a)anthracene	21.384	228	10867	0.370	ng		98
33) Chrysene	21.438	228	12584	0.399	ng		98
34) Bis(2-ethylhexyl)phtha...	21.331	149	3605	0.414	ng		99
36) Indeno(1,2,3-cd)pyrene	26.110	276	14316	0.408	ng		99
37) Benzo(b)fluoranthene	23.031	252	13207	0.402	ng	#	94
38) Benzo(k)fluoranthene	23.075	252	13139	0.392	ng	#	95
39) Benzo(a)pyrene	23.630	252	10193	0.387	ng	#	92
40) Dibenzo(a,h)anthracene	26.133	278	11121	0.397	ng		99
41) Benzo(g,h,i)perylene	26.835	276	12456	0.396	ng		99

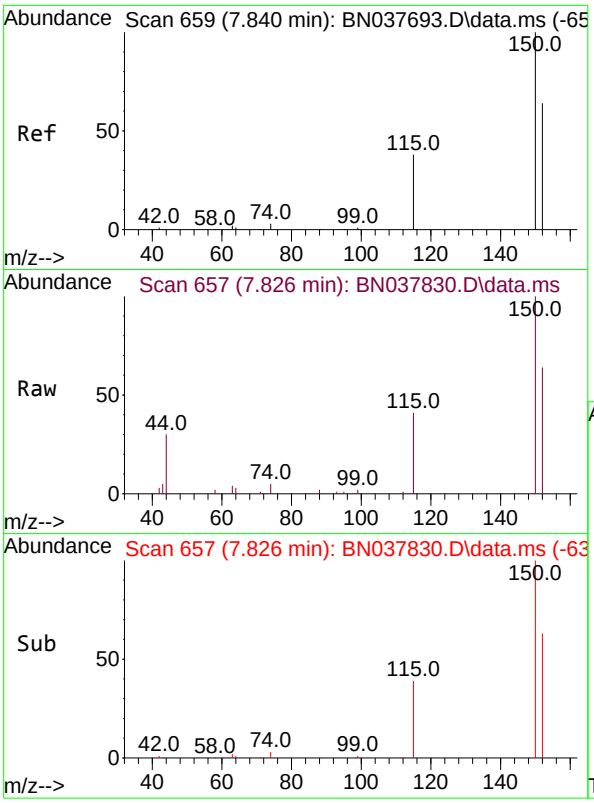
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037830.D
Acq On : 20 Sep 2025 00:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 20 01:04:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



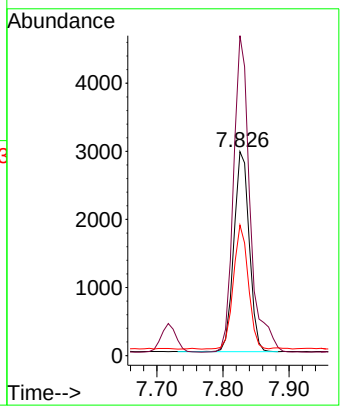


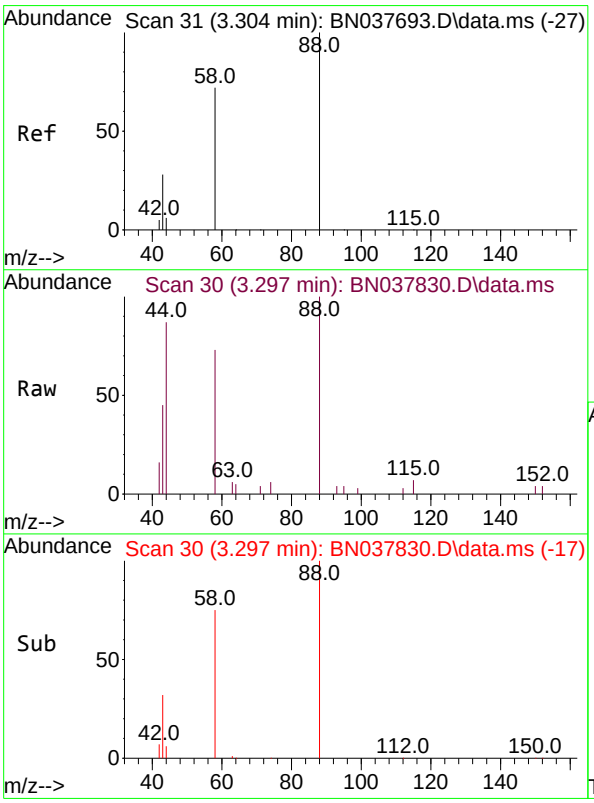
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 4763

Ion	Ratio	Lower	Upper
152	100		
150	156.9	124.5	186.7
115	64.0	49.2	73.8

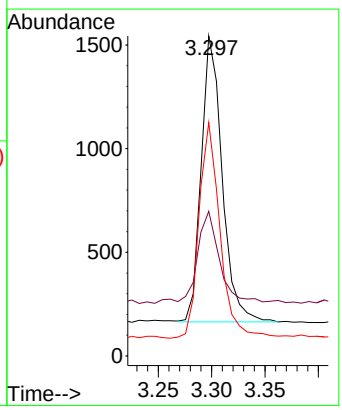


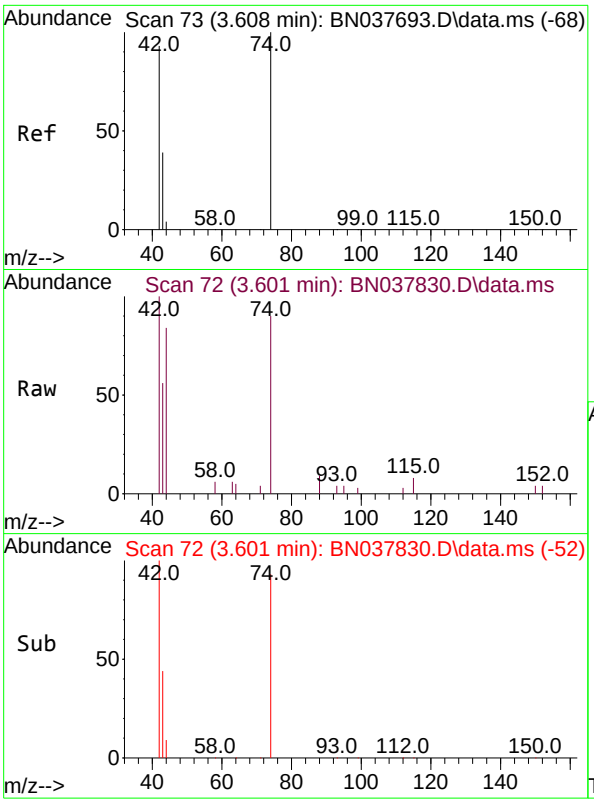


#2
1,4-Dioxane
Concen: 0.379 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion: 88 Resp: 1880

Ion	Ratio	Lower	Upper
88	100		
43	34.9	26.8	40.2
58	75.7	61.9	92.9



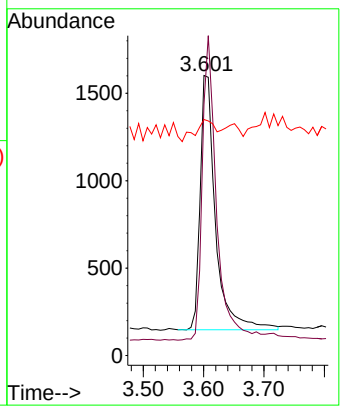


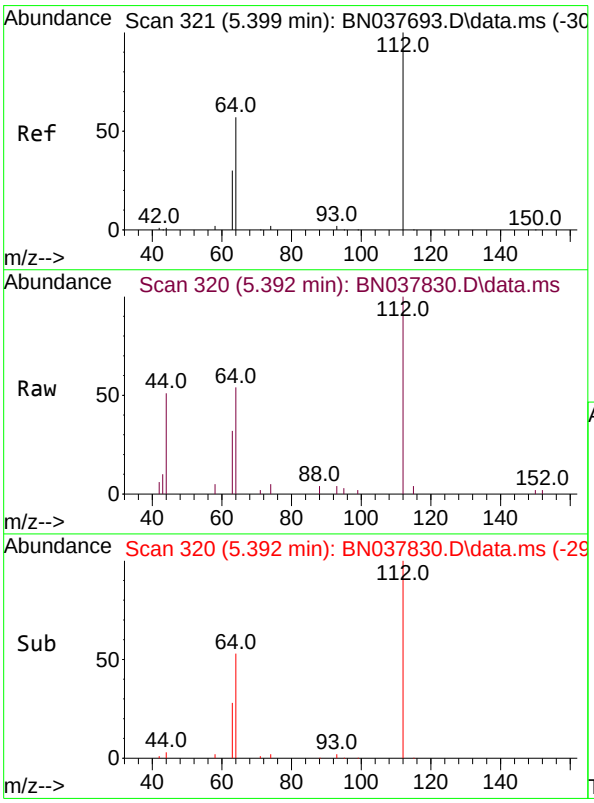
#3
n-Nitrosodimethylamine
Concen: 0.399 ng
RT: 3.601 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 2585

Ion	Ratio	Lower	Upper
42	100		
74	110.6	86.0	129.0
44	10.4	8.4	12.6

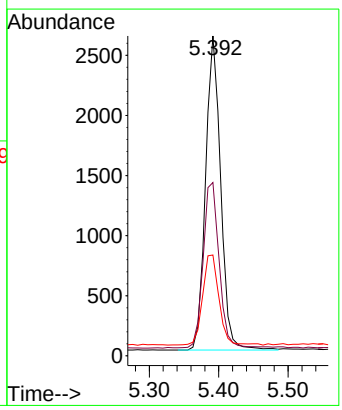


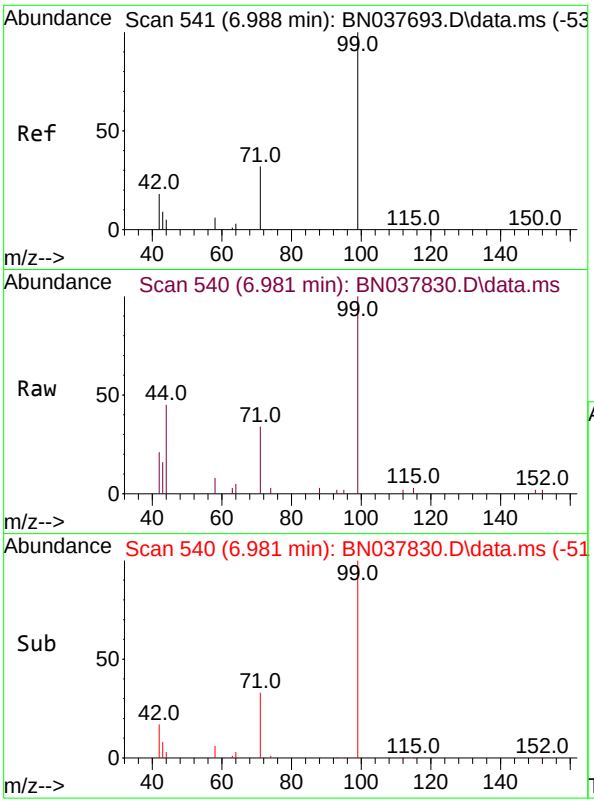


#4
2-Fluorophenol
Concen: 0.361 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:112 Resp: 3952

Ion	Ratio	Lower	Upper
112	100		
64	55.7	44.9	67.3
63	30.9	24.7	37.1



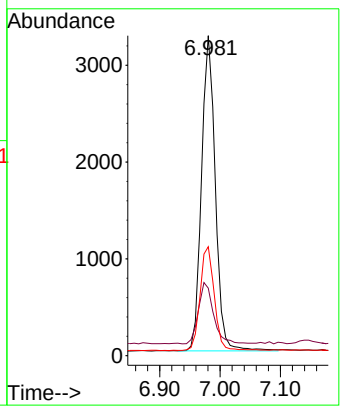


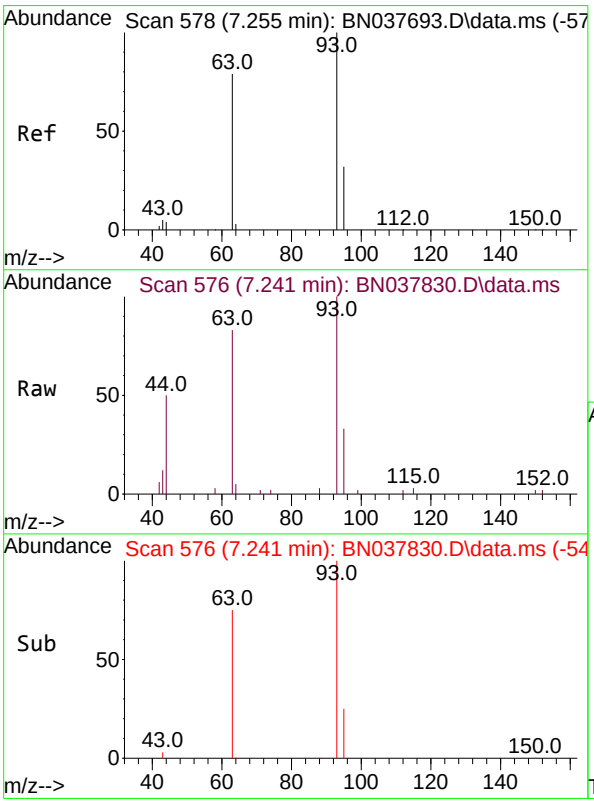
#5
Phenol-d6
Concen: 0.365 ng
RT: 6.981 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 5181

Ion	Ratio	Lower	Upper
99	100		
42	21.1	16.6	24.8
71	34.1	26.7	40.1

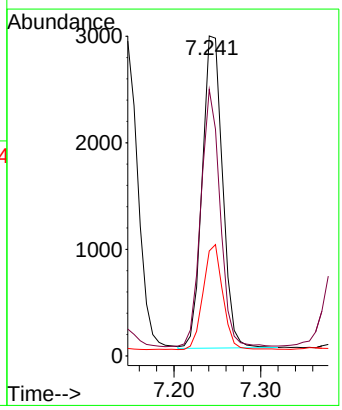


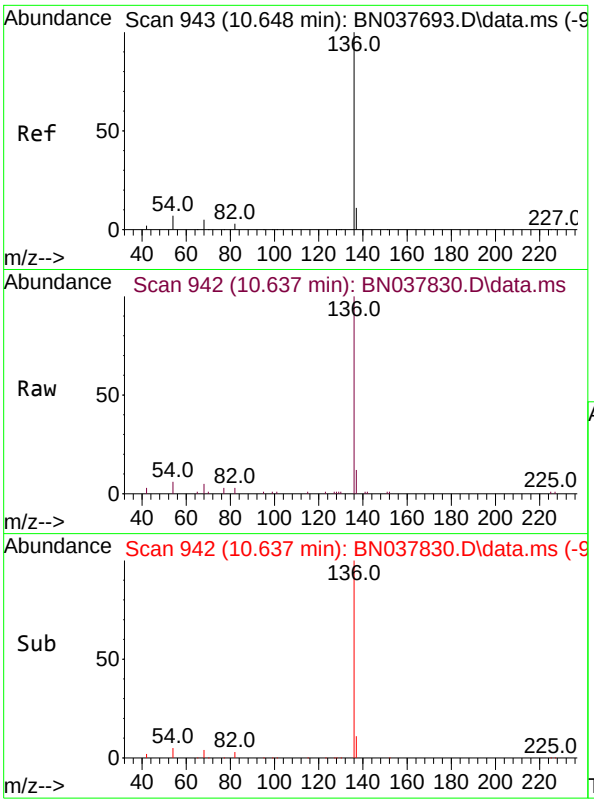


#6
bis(2-Chloroethyl)ether
Concen: 0.376 ng
RT: 7.241 min Scan# 576
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion: 93 Resp: 4760

Ion	Ratio	Lower	Upper
93	100		
63	78.1	60.6	90.8
95	32.8	26.0	39.0



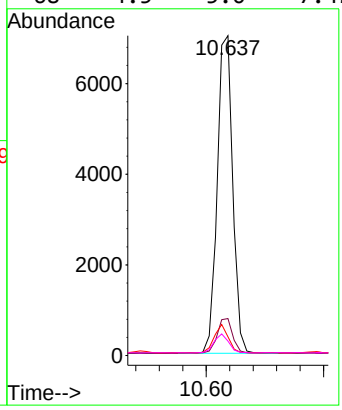


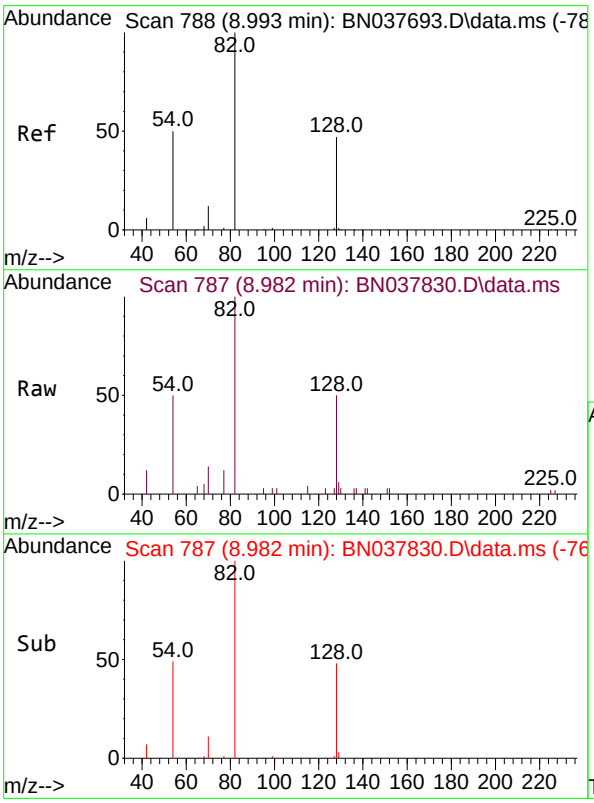
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 12882

Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	5.9	6.3	9.5#
68	4.5	5.0	7.4#

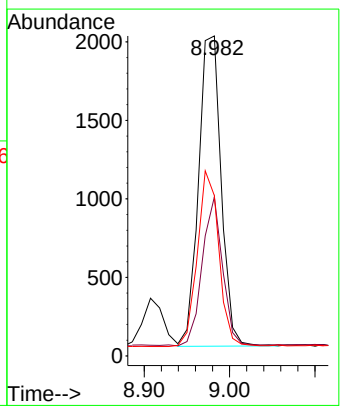


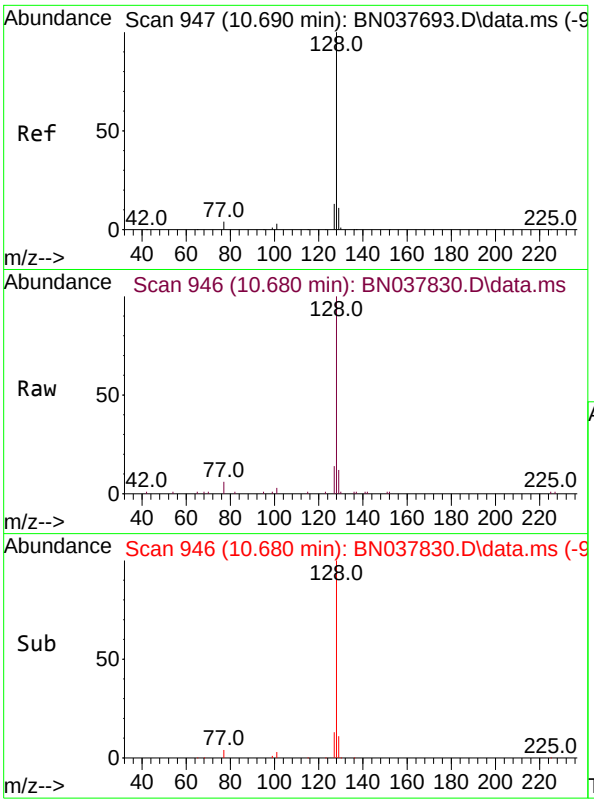


#8
Nitrobenzene-d5
Concen: 0.386 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion: 82 Resp: 3636

Ion	Ratio	Lower	Upper
82	100		
128	49.7	38.3	57.5
54	50.1	41.4	62.2



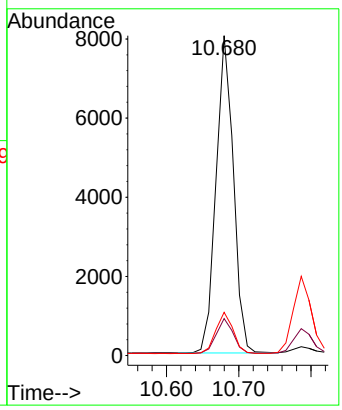


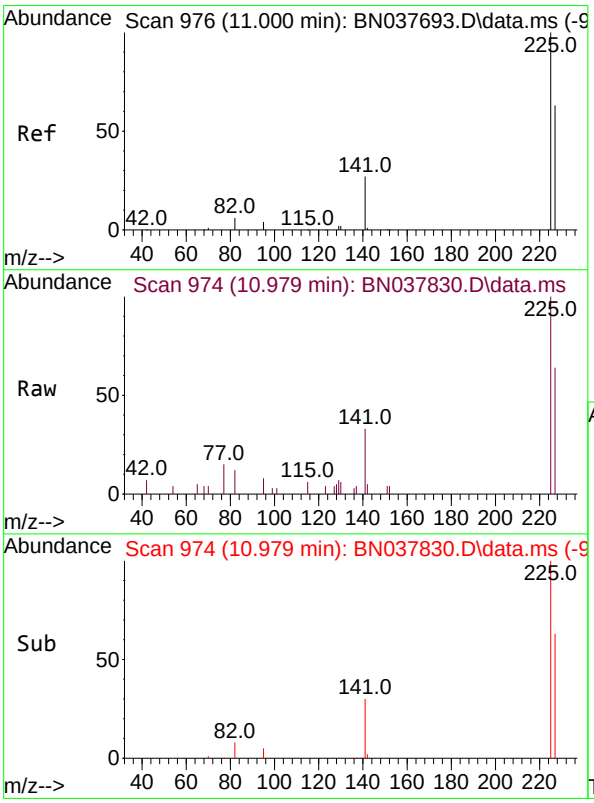
#9
Naphthalene
Concen: 0.381 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 13409

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.1	13.7
127	13.5	10.9	16.3

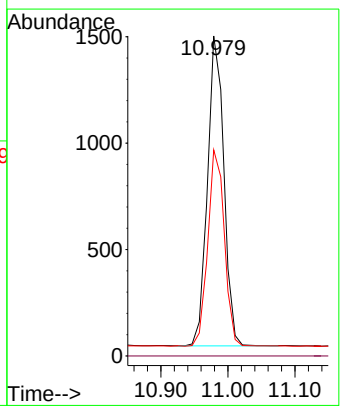


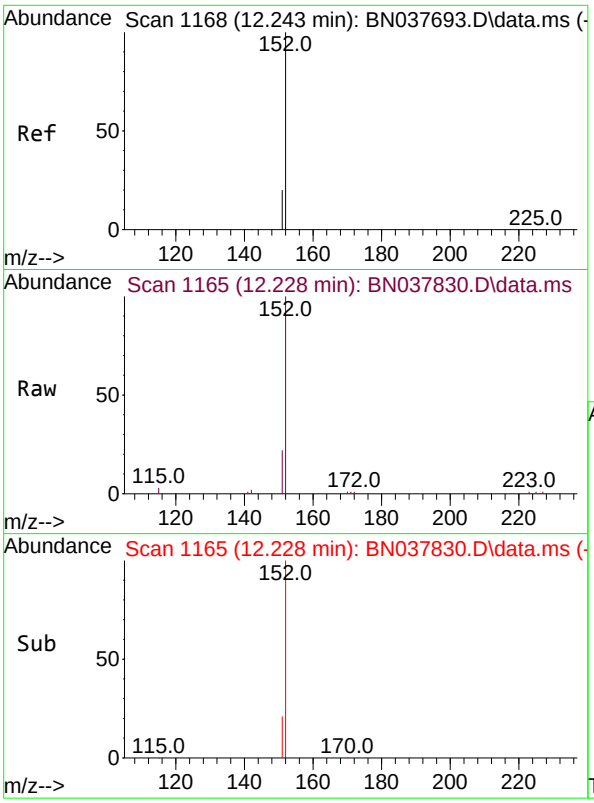


#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:225 Resp: 2479

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	50.9	76.3



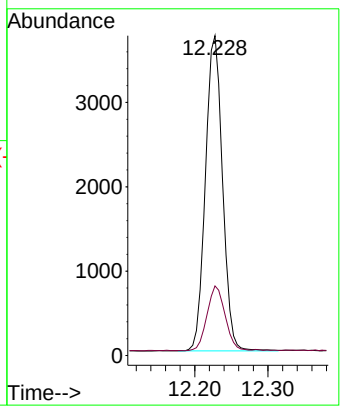


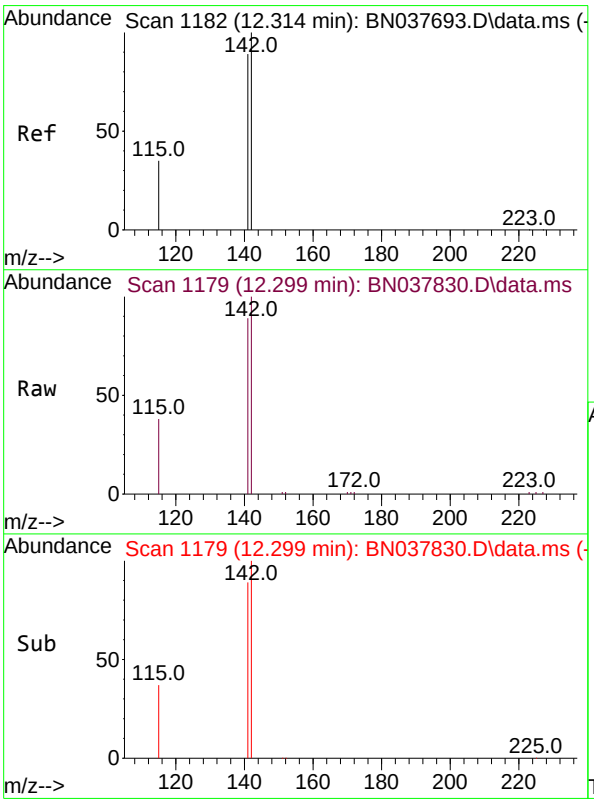
#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 12.228 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 6061

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.0	25.6

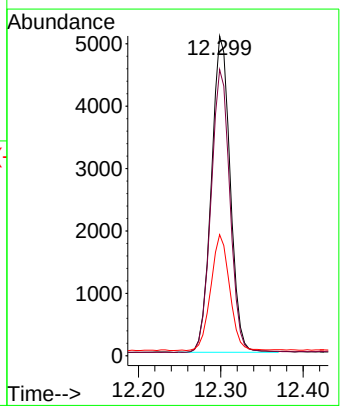


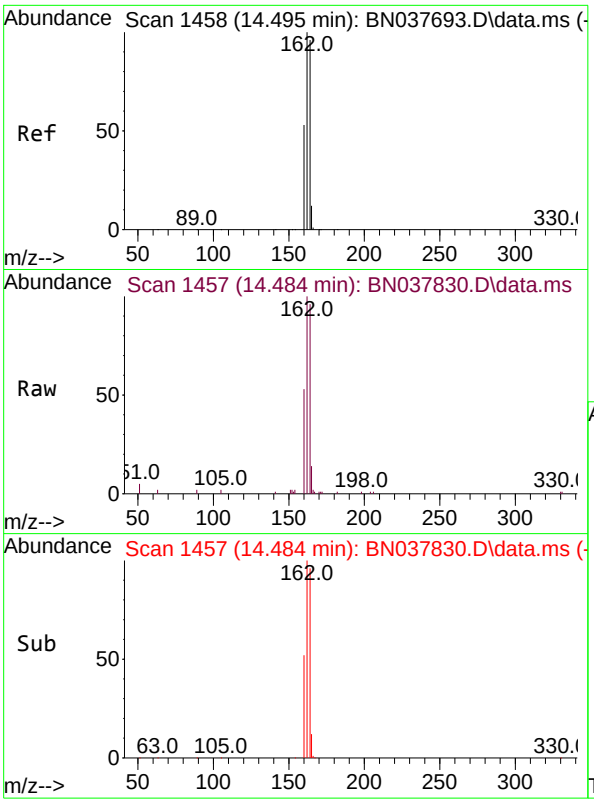


#12
2-Methylnaphthalene
Concen: 0.370 ng
RT: 12.299 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:142 Resp: 8063

Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.6	107.4
115	37.9	28.6	43.0



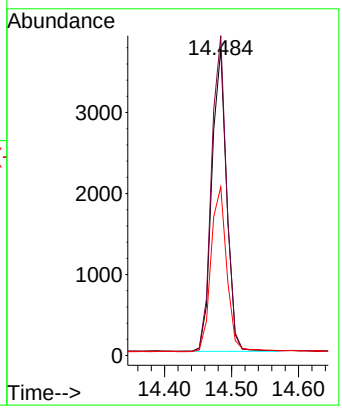


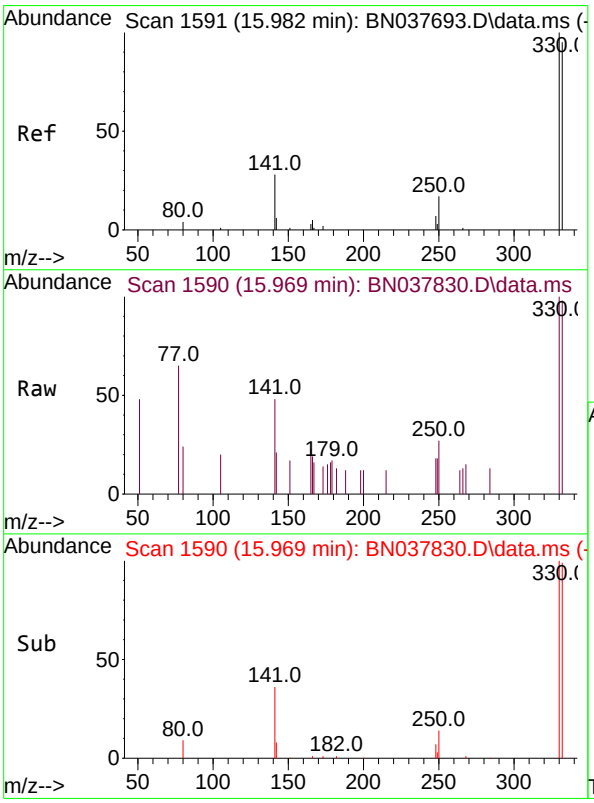
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 5757

Ion	Ratio	Lower	Upper
164	100		
162	104.3	83.1	124.7
160	55.0	44.3	66.5

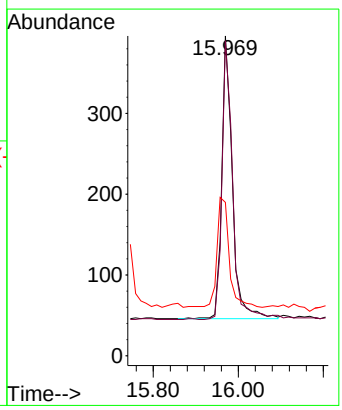


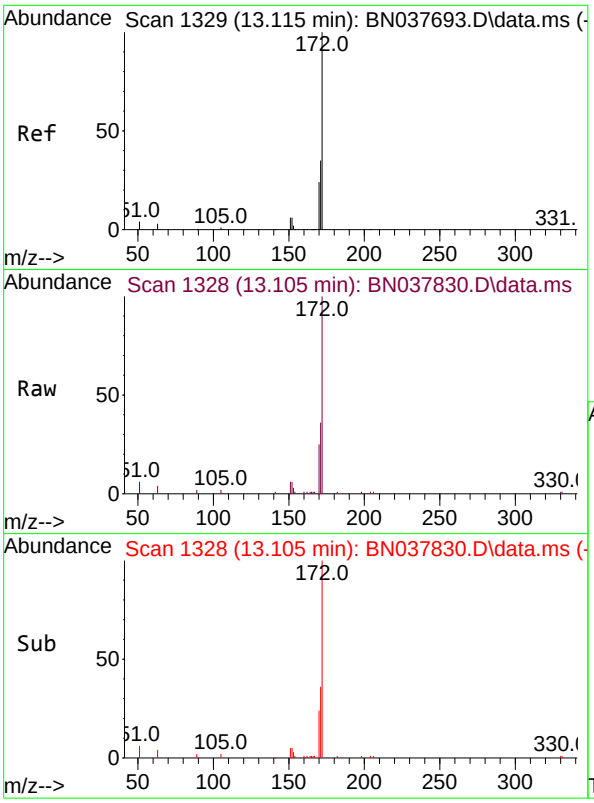


#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:330 Resp: 607

Ion	Ratio	Lower	Upper
330	100		
332	99.8	75.3	112.9
141	44.3	35.0	52.4



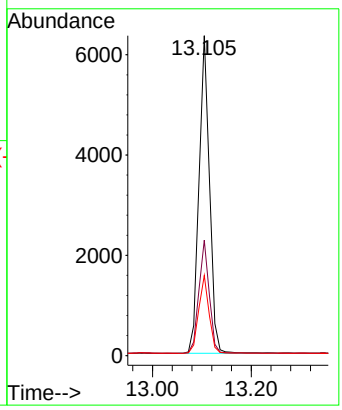


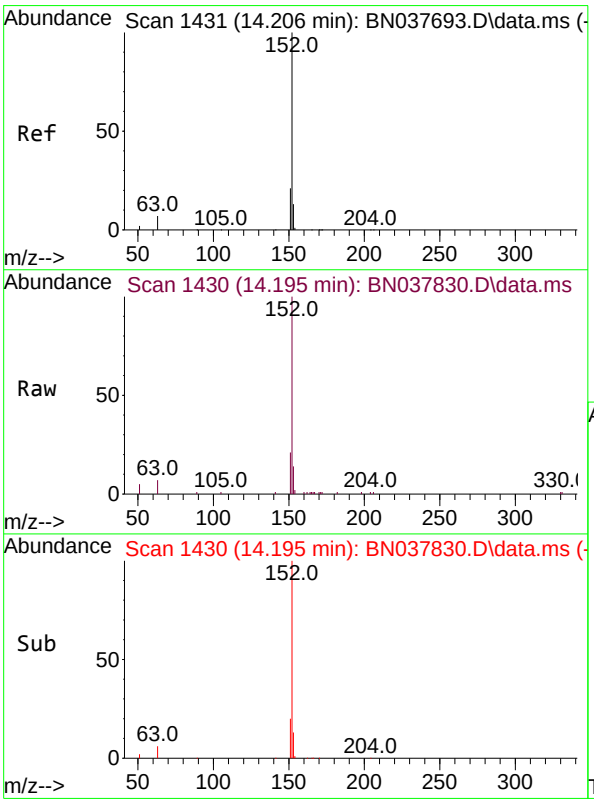
#15
2-Fluorobiphenyl
Concen: 0.388 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 9332

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.6	43.0
170	25.0	19.8	29.8

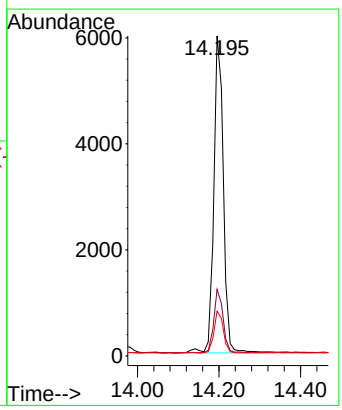


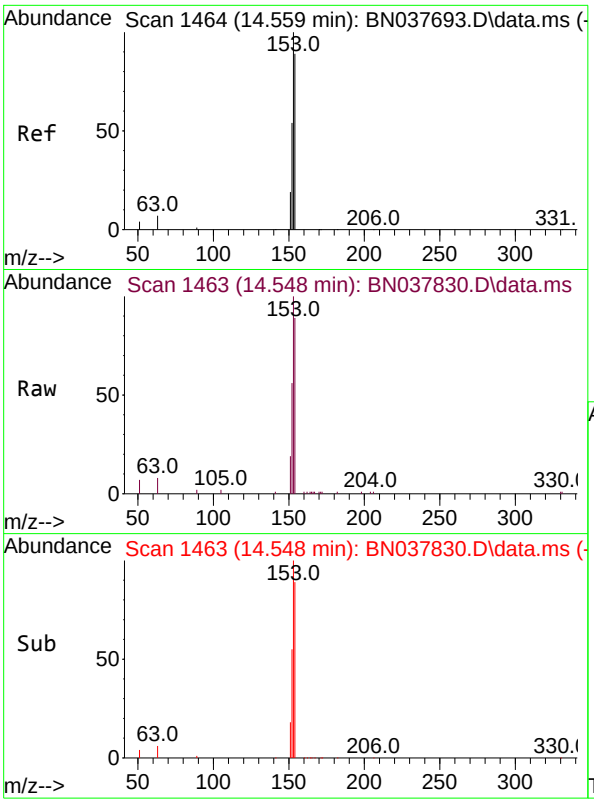


#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:152 Resp: 9766

Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.2	24.2
153	12.8	10.4	15.6



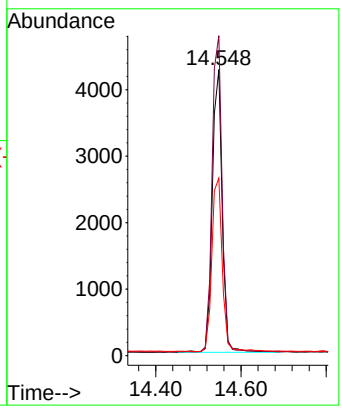


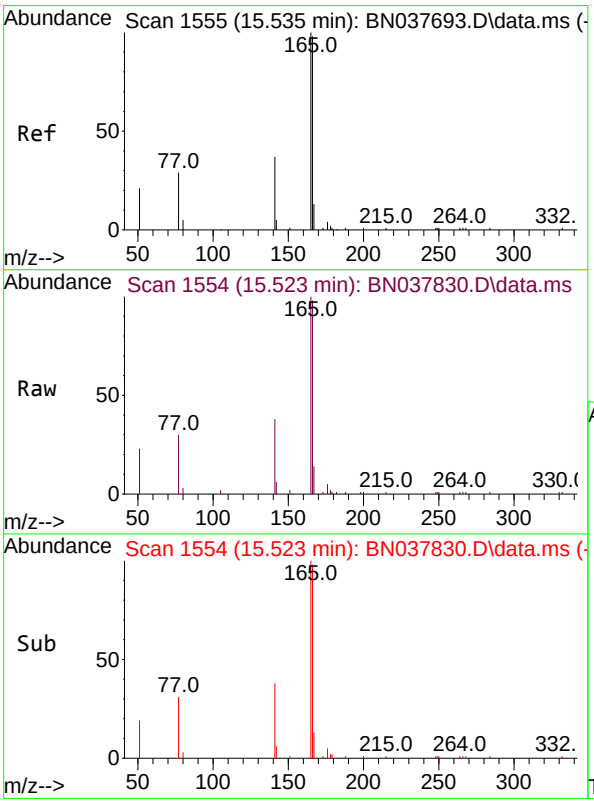
#17
Acenaphthene
Concen: 0.382 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 6828

Ion	Ratio	Lower	Upper
154	100		
153	113.4	89.8	134.8
152	65.3	50.2	75.2

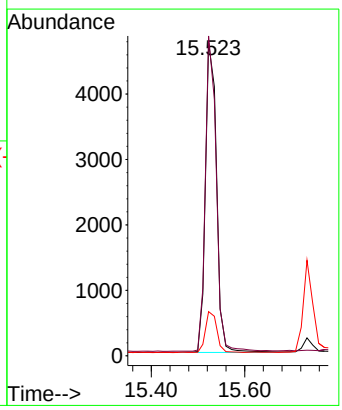


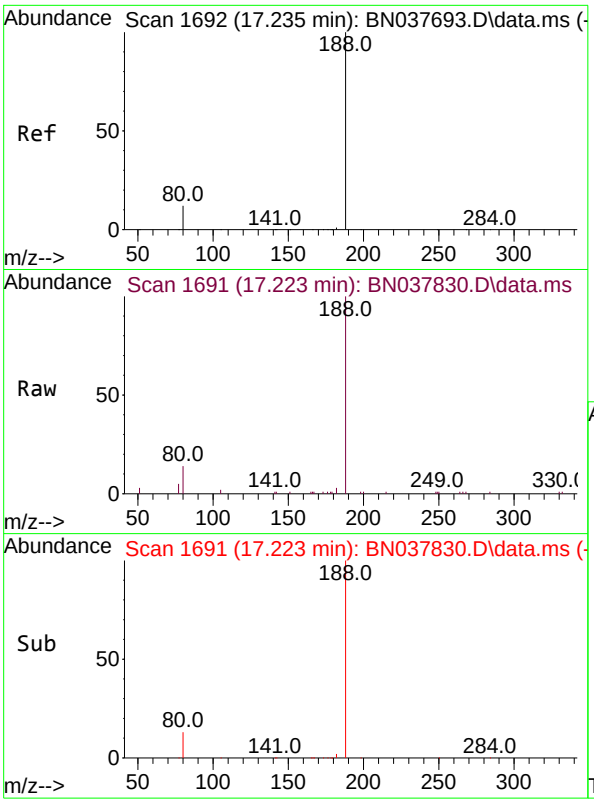


#18
Fluorene
Concen: 0.352 ng
RT: 15.523 min Scan# 1554
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:166 Resp: 7620

Ion	Ratio	Lower	Upper
166	100		
165	100.3	79.6	119.4
167	13.4	10.6	16.0



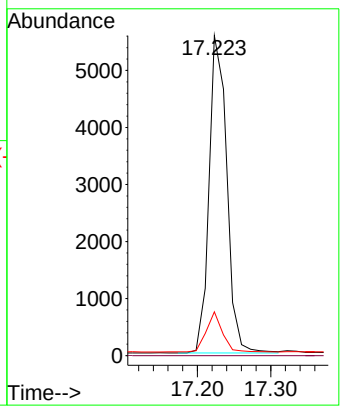


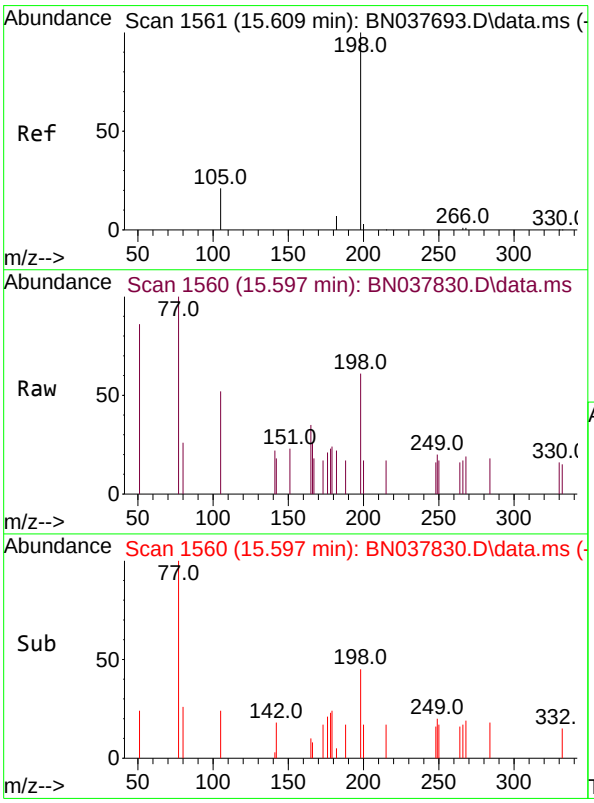
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 9339

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.7	10.6	15.8

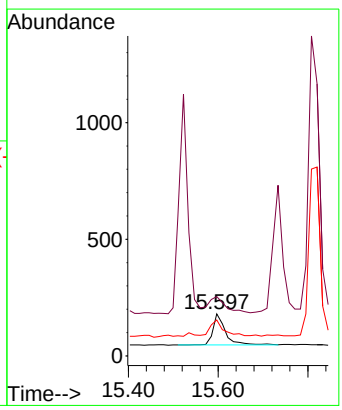


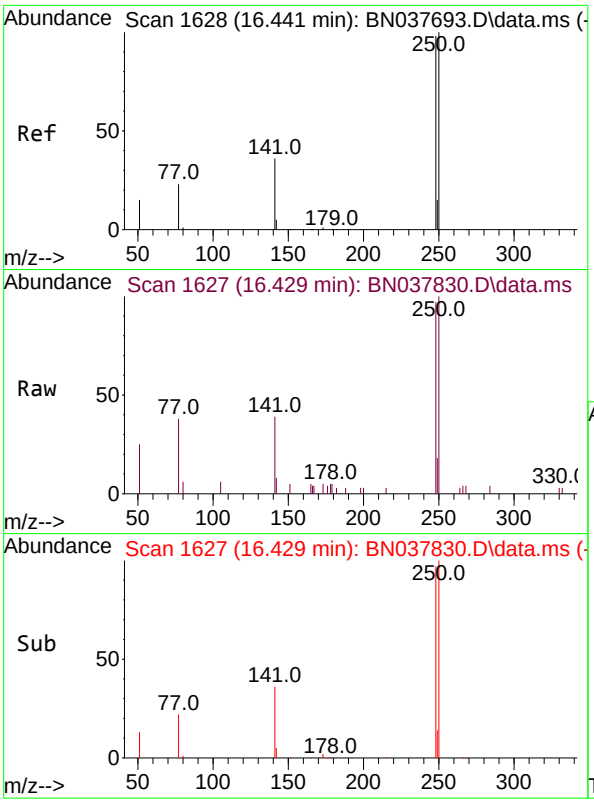


#20
4,6-Dinitro-2-methylphenol
Concen: 0.297 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:198 Resp: 257

Ion	Ratio	Lower	Upper
198	100		
51	141.1	95.1	142.7
105	85.6	53.8	80.6#



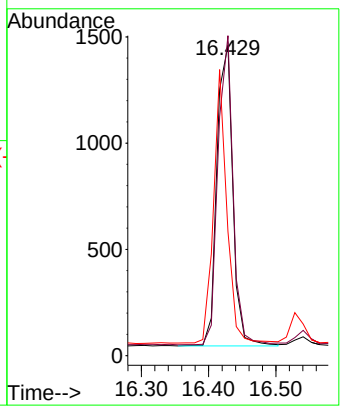


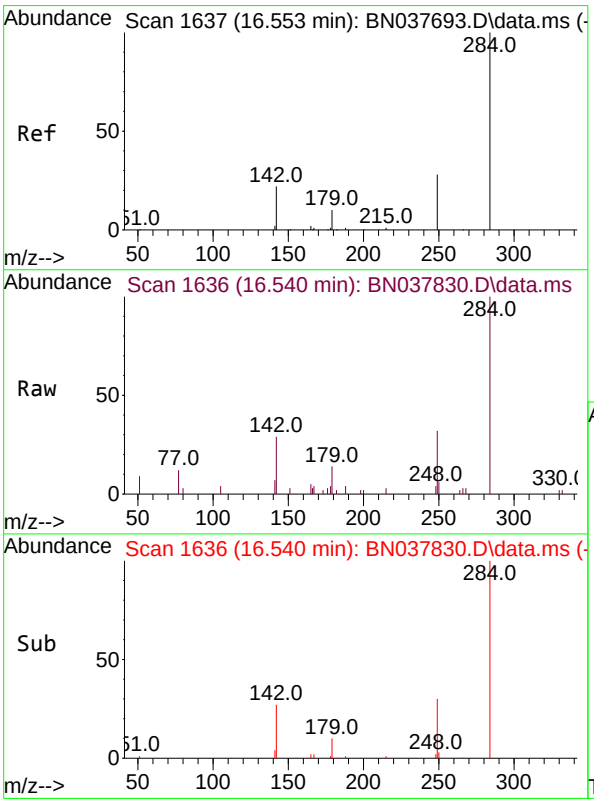
#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2332

Ion	Ratio	Lower	Upper
248	100		
250	103.2	81.5	122.3
141	40.0	30.8	46.2

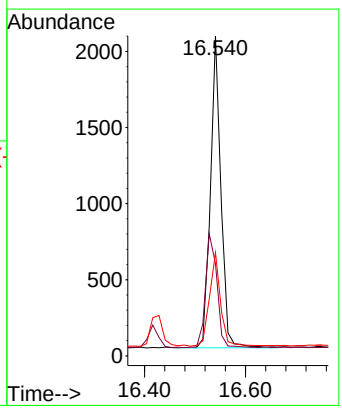


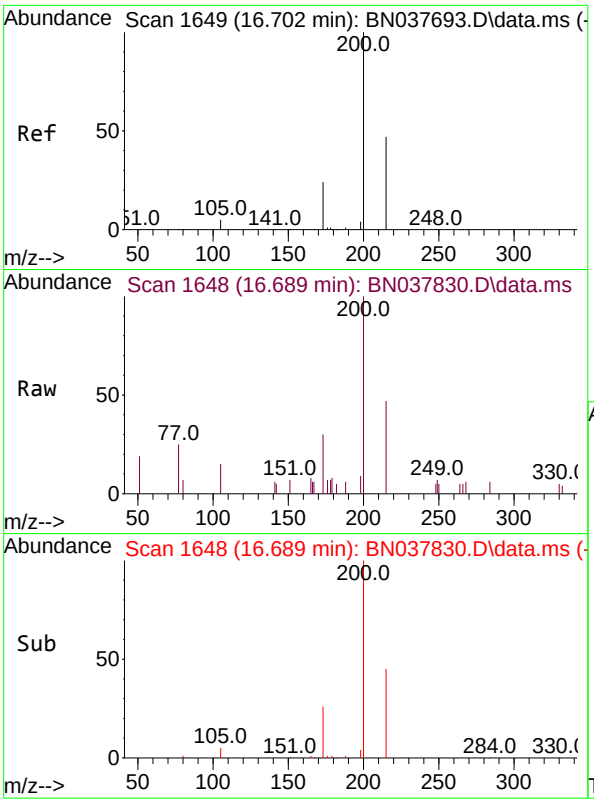


#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:284 Resp: 2969

Ion	Ratio	Lower	Upper
284	100		
142	39.6	30.9	46.3
249	31.5	24.8	37.2



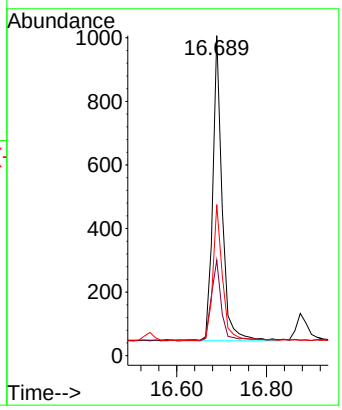


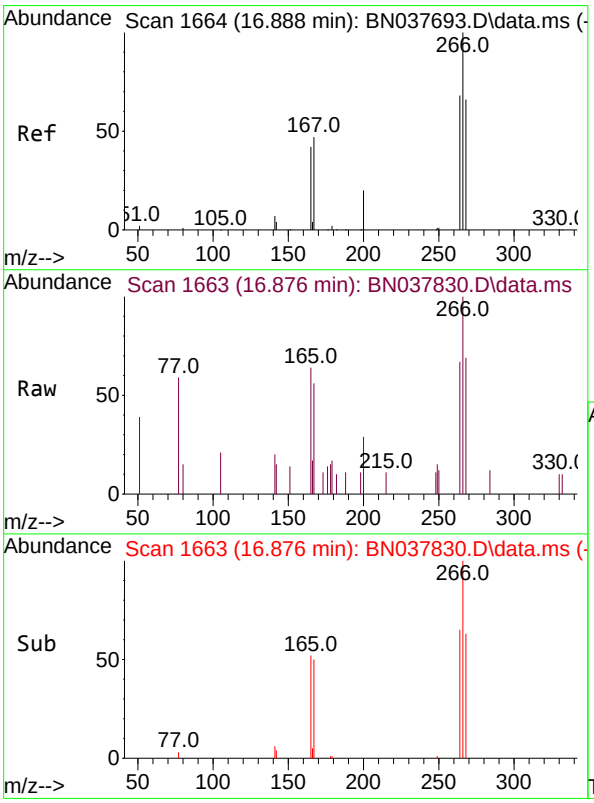
#23
Atrazine
Concen: 0.361 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1399

Ion	Ratio	Lower	Upper
200	100		
173	29.9	21.4	32.2
215	47.2	39.2	58.8

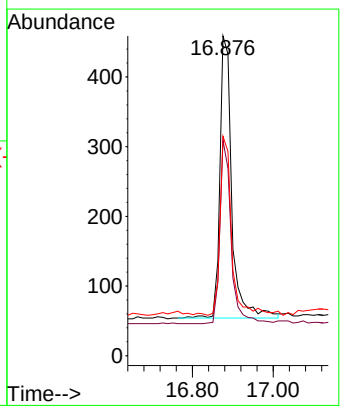


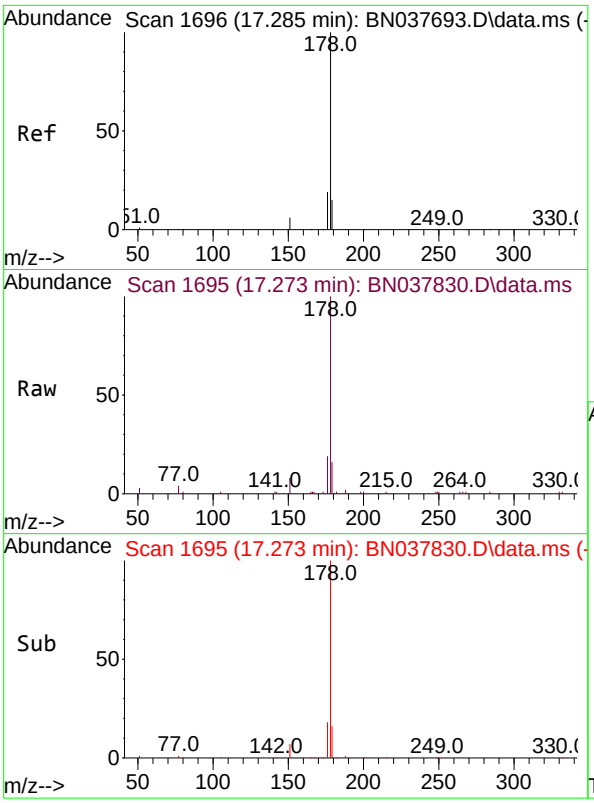


#24
Pentachlorophenol
Concen: 0.408 ng
RT: 16.876 min Scan# 1663
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:266 Resp: 830

Ion	Ratio	Lower	Upper
266	100		
264	61.1	51.6	77.4
268	61.9	53.2	79.8



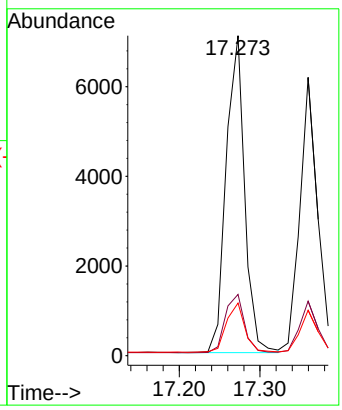


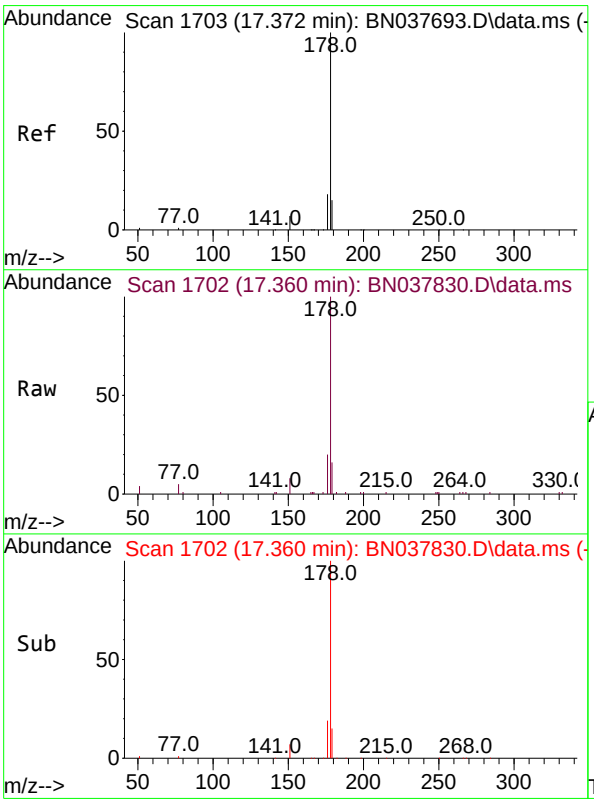
#25
Phenanthrene
Concen: 0.383 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 11247

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.6	12.2	18.2

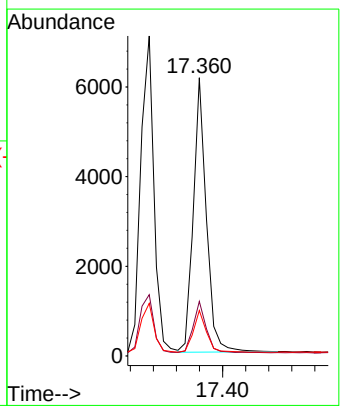


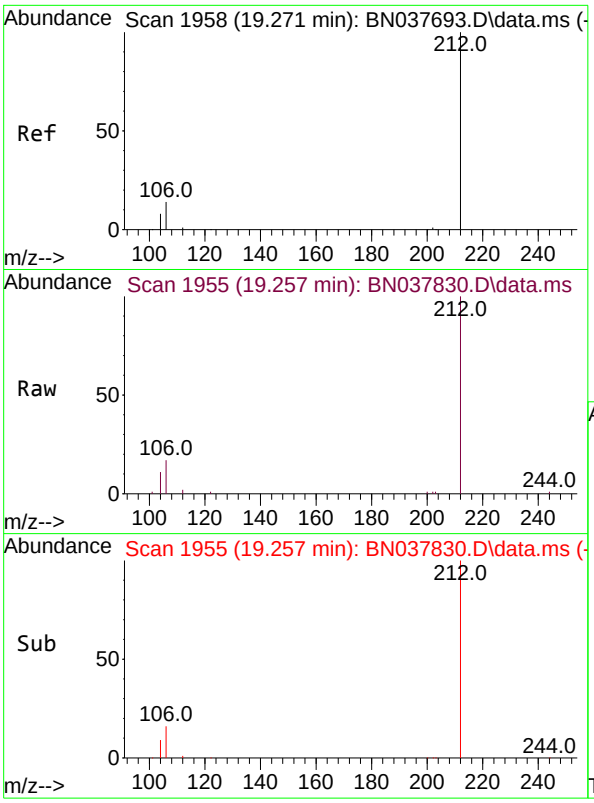


#26
Anthracene
Concen: 0.369 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:178 Resp: 9601

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.6	22.0
179	15.4	12.2	18.4



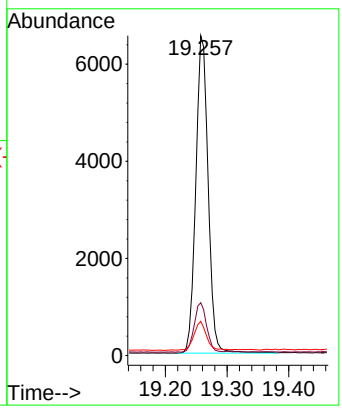


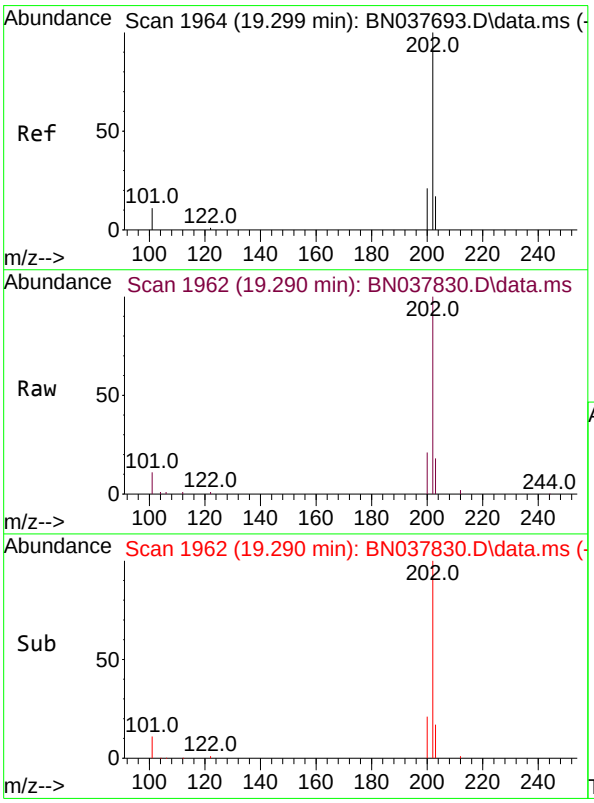
#27
Fluoranthene-d10
Concen: 0.387 ng
RT: 19.257 min Scan# 19
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 9064

Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.2	18.2
104	9.0	6.9	10.3

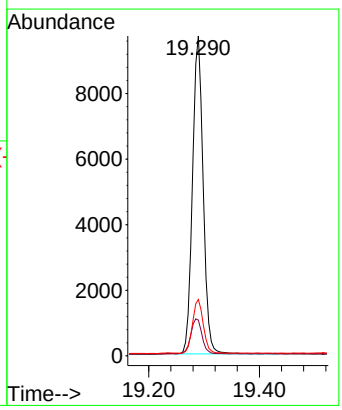


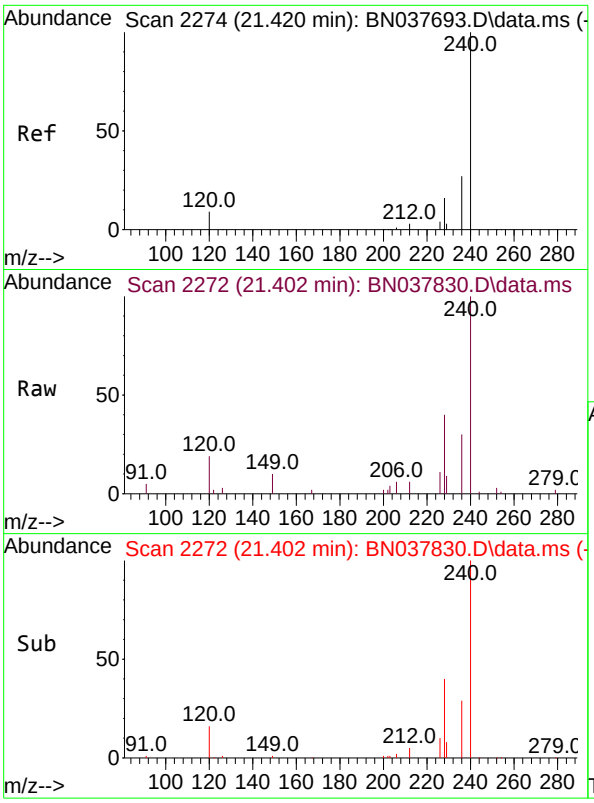


#28
Fluoranthene
Concen: 0.402 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:202 Resp: 12968

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.3	13.9
203	17.0	13.7	20.5



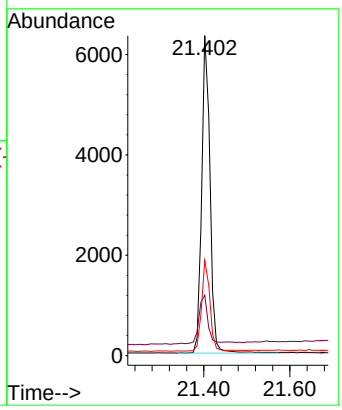


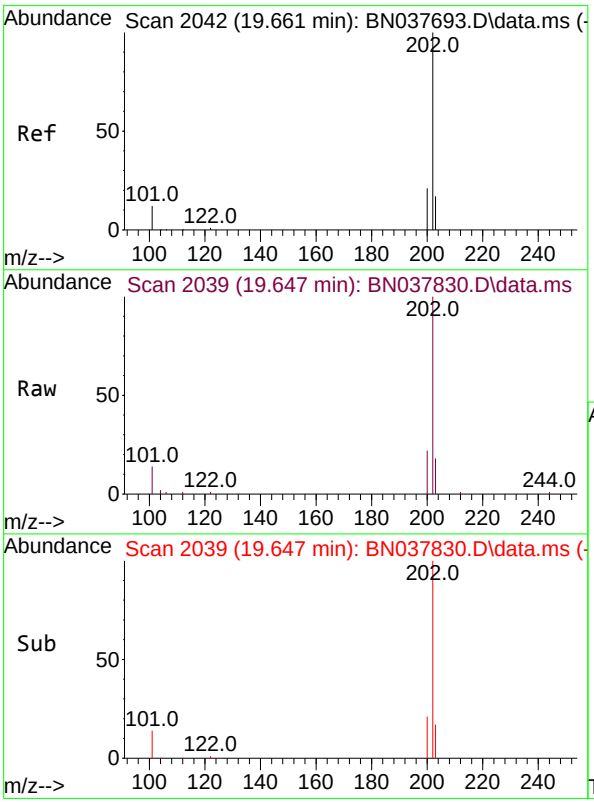
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 8425

Ion	Ratio	Lower	Upper
240	100		
120	18.9	9.2	13.8#
236	29.7	22.6	33.8

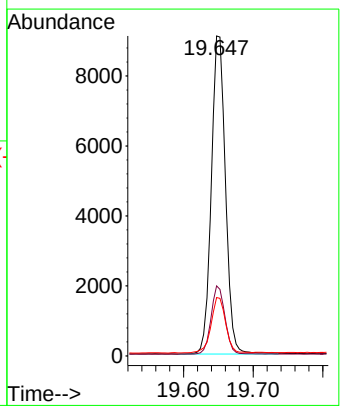


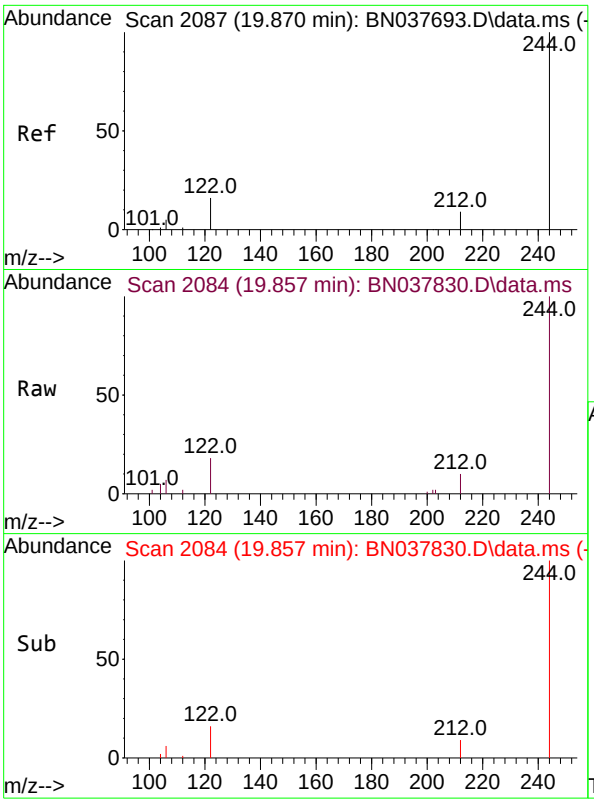


#30
Pyrene
Concen: 0.388 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:202 Resp: 12812

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.8	14.3	21.5



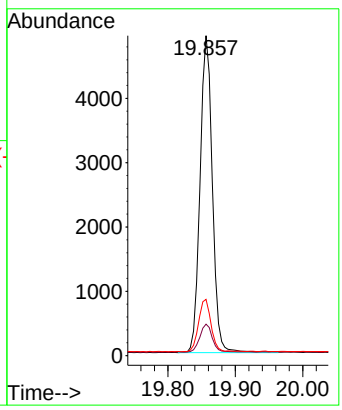


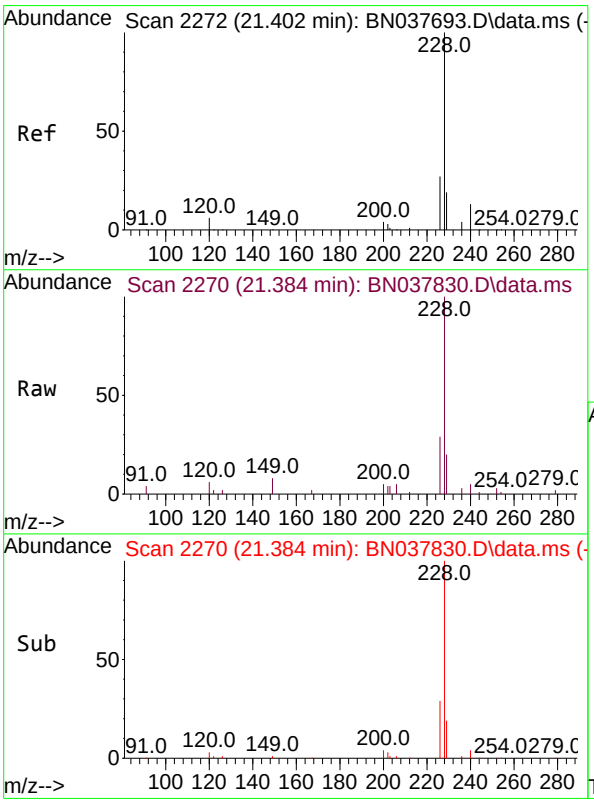
#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.857 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 6240

Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.5	11.3
122	17.6	13.2	19.8

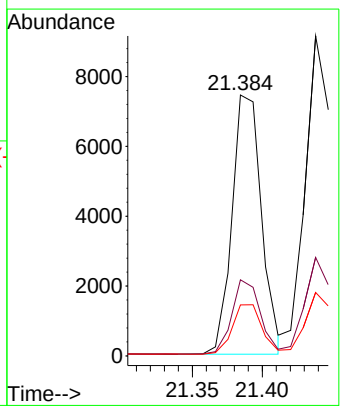


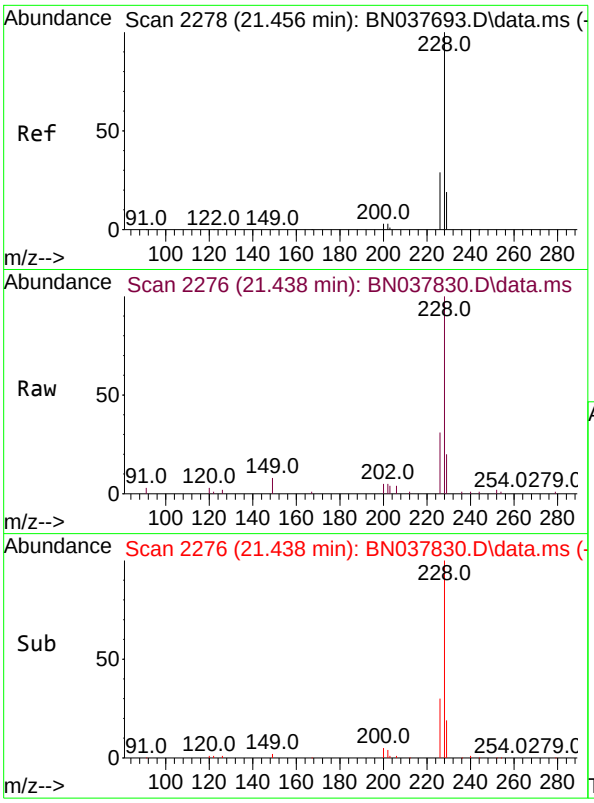


#32
Benzo(a)anthracene
Concen: 0.370 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:228 Resp: 10867

Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.2	33.2
229	19.5	15.8	23.6



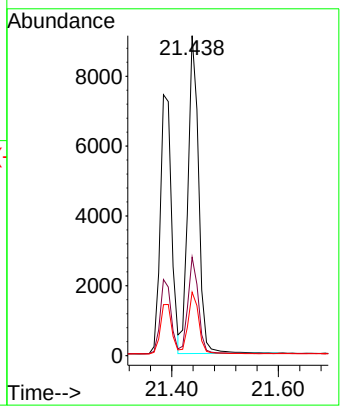


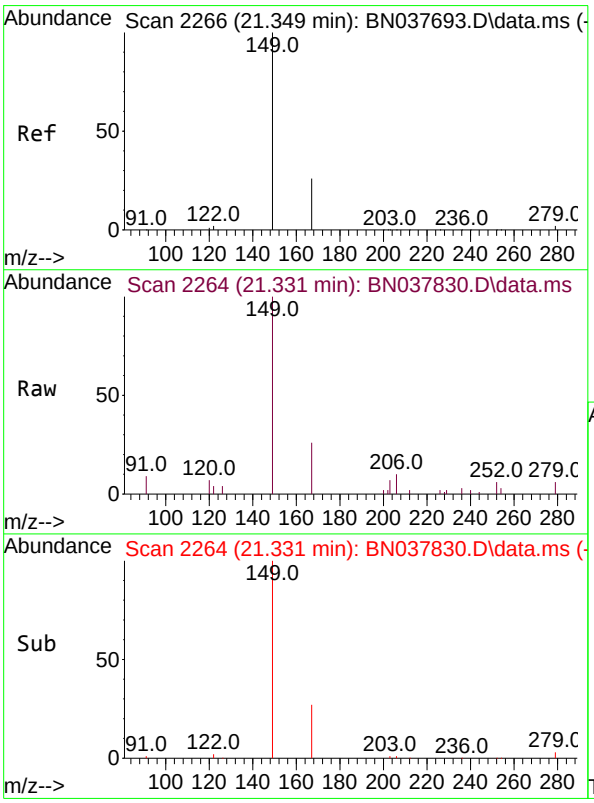
#33
Chrysene
Concen: 0.399 ng
RT: 21.438 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 12584

Ion	Ratio	Lower	Upper
228	100		
226	30.8	23.5	35.3
229	19.8	15.9	23.9

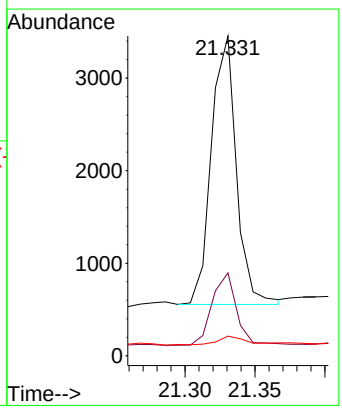


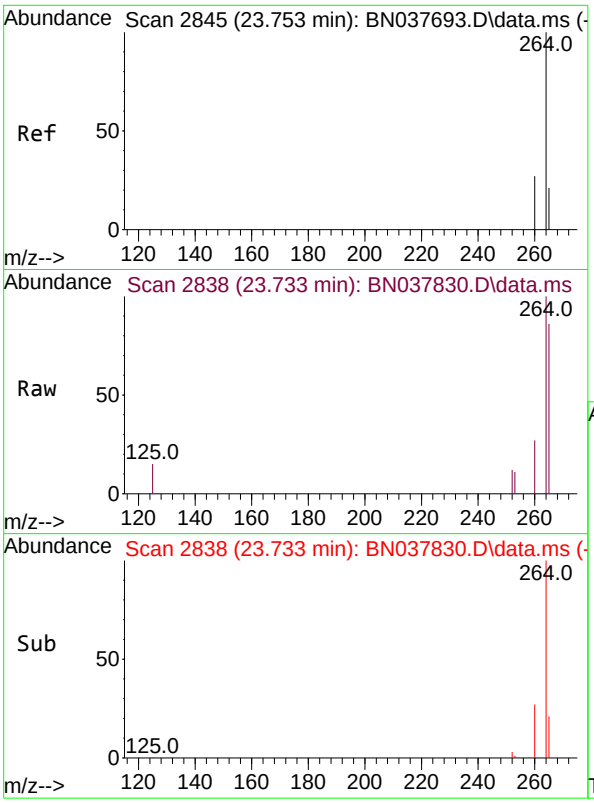


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.414 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:149 Resp: 3605

Ion	Ratio	Lower	Upper
149	100		
167	26.7	20.8	31.2
279	3.5	3.3	4.9



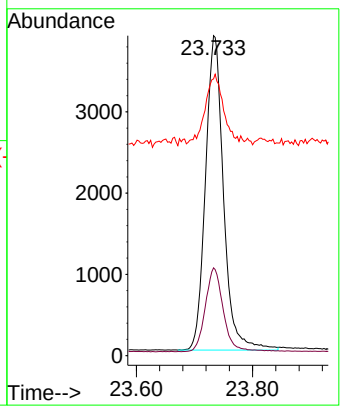


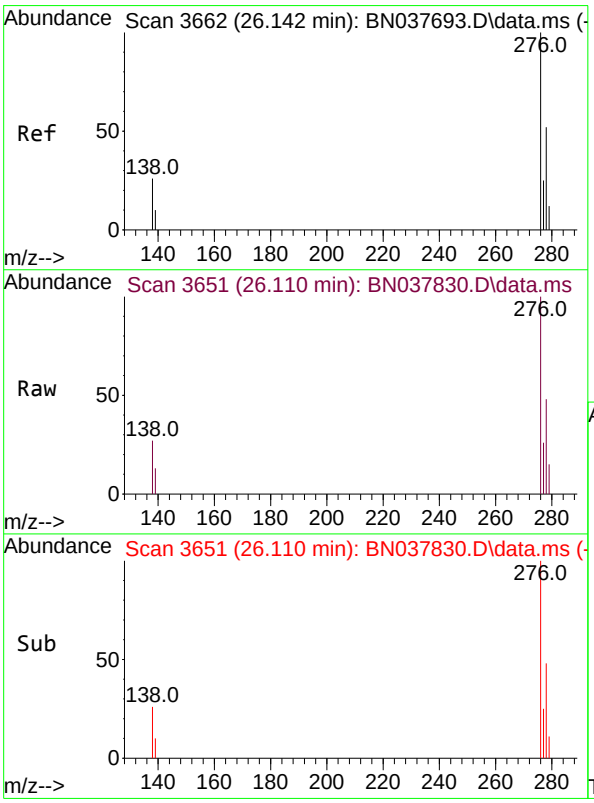
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.733 min Scan# 28
Delta R.T. -0.020 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 8348

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.8	32.8
265	86.5	39.4	59.2#

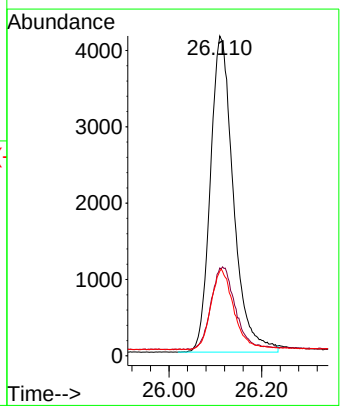


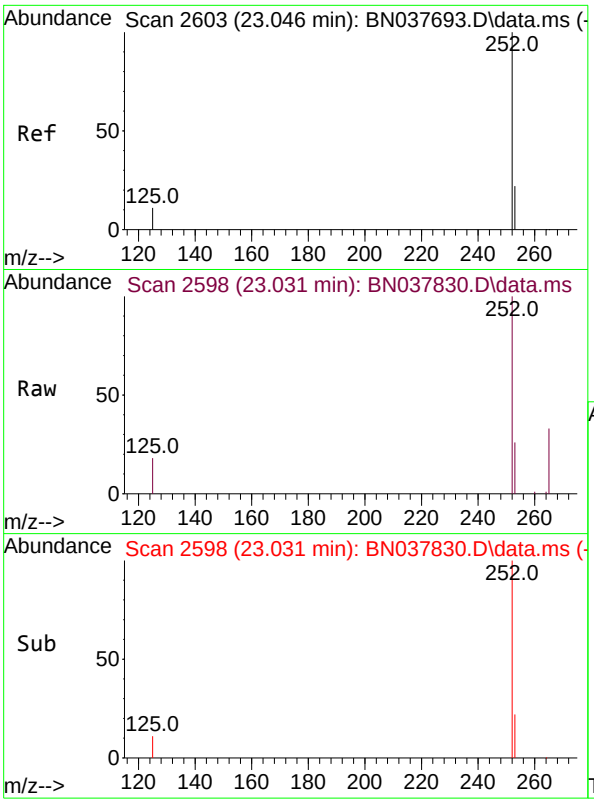


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.408 ng
RT: 26.110 min Scan# 3651
Delta R.T. -0.032 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:276 Resp: 14316

Ion	Ratio	Lower	Upper
276	100		
138	26.8	21.9	32.9
277	25.2	20.1	30.1



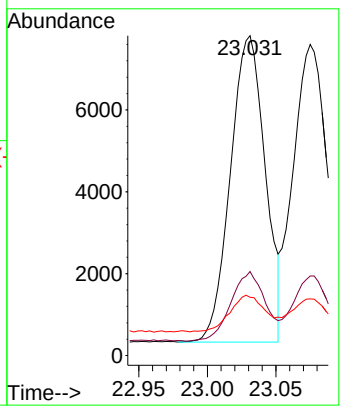


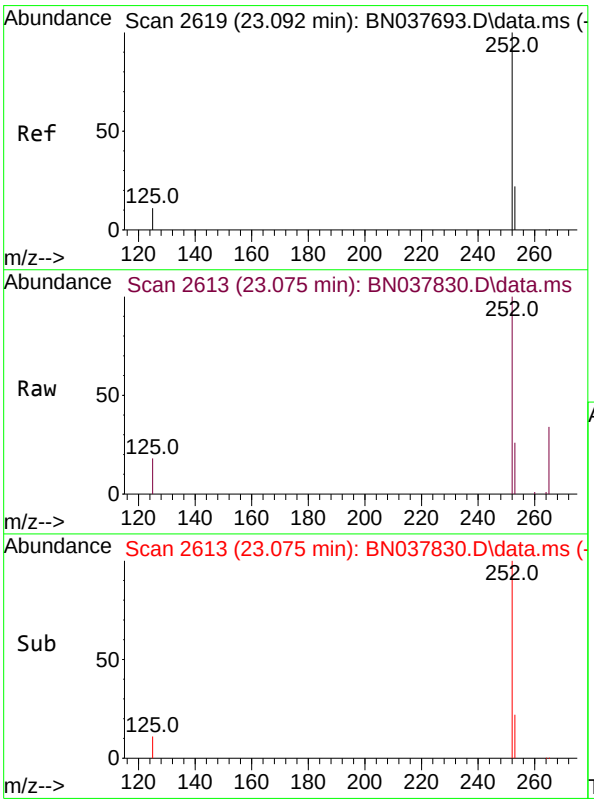
#37
Benzo(b)fluoranthene
Concen: 0.402 ng
RT: 23.031 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 13207

Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.4	29.2
125	18.2	11.2	16.8#

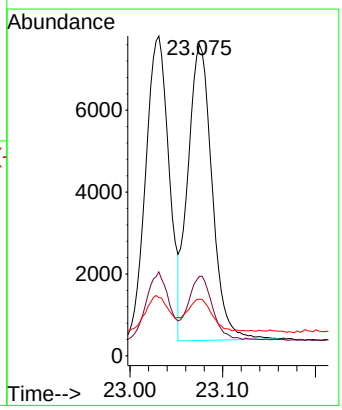


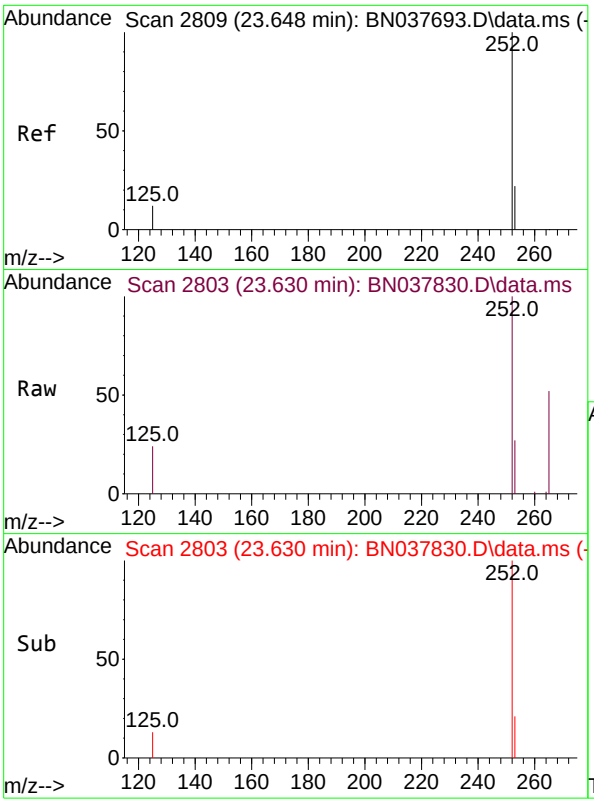


#38
Benzo(k)fluoranthene
Concen: 0.392 ng
RT: 23.075 min Scan# 2613
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:252 Resp: 13139

Ion	Ratio	Lower	Upper
252	100		
253	25.6	19.4	29.0
125	18.2	11.6	17.4#



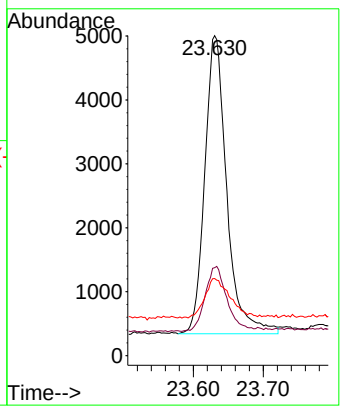


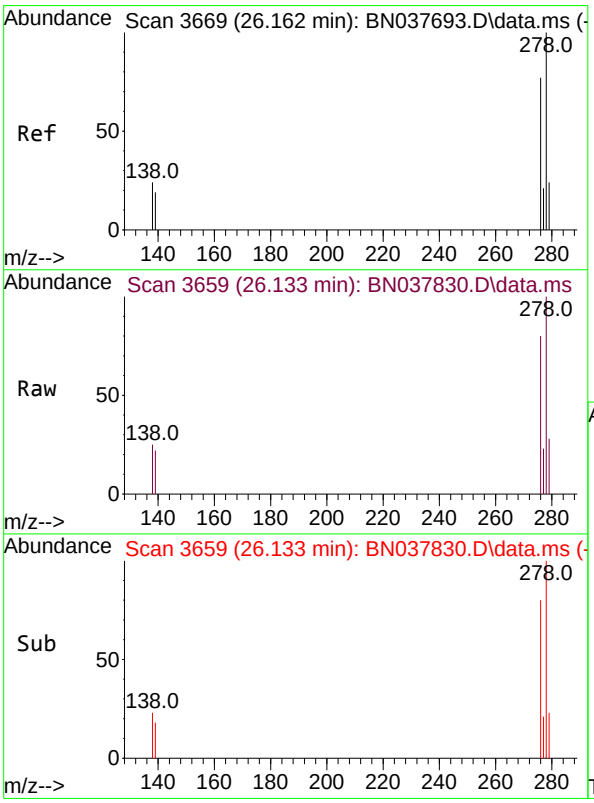
#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 23.630 min Scan# 28
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 10193

Ion	Ratio	Lower	Upper
252	100		
253	27.5	20.8	31.2
125	24.1	13.9	20.9#

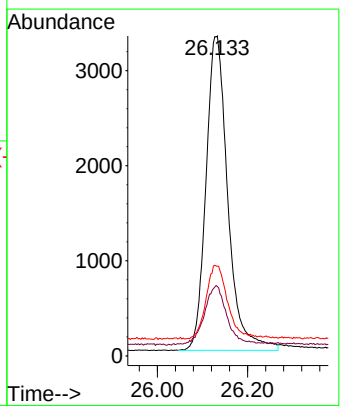


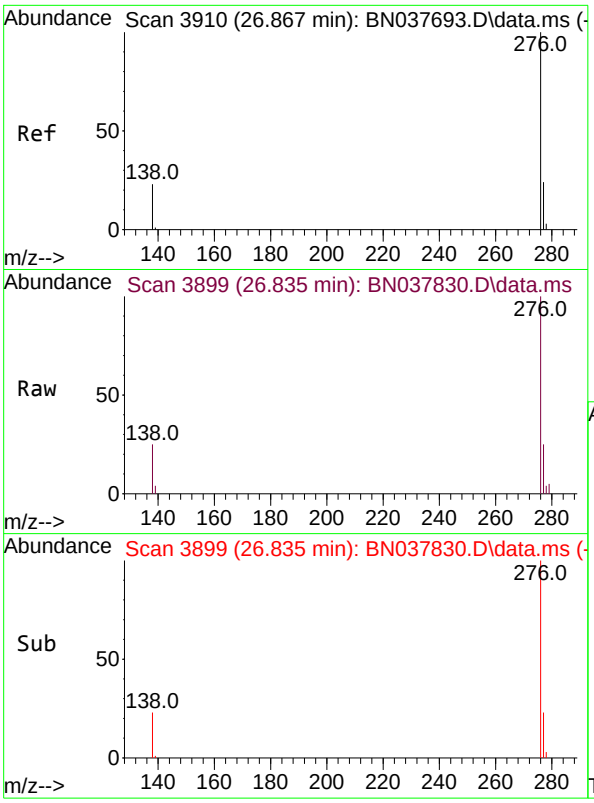


#40
Dibenzo(a,h)anthracene
Concen: 0.397 ng
RT: 26.133 min Scan# 3659
Delta R.T. -0.029 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:278 Resp: 11121

Ion	Ratio	Lower	Upper
278	100		
139	21.7	17.8	26.6
279	28.0	22.0	33.0



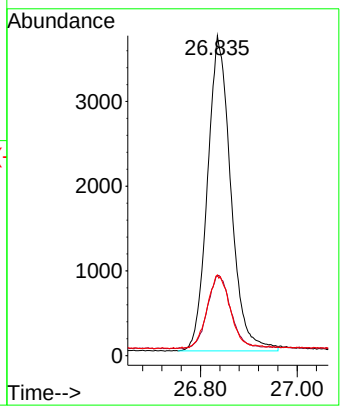


#41
Benzo(g,h,i)perylene
Concen: 0.396 ng
RT: 26.835 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 12456

Ion	Ratio	Lower	Upper
276	100		
277	24.8	20.6	31.0
138	25.3	20.2	30.2



Sample Results: **BN037830.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037830.D
Acq On : 20 Sep 2025 00:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 20 01:04:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	-0.01
2		1,4-Dioxane	0.417	0.395	5.3	89	0.00
3		n-Nitrosodimethylamine	0.544	0.543	0.2	92	0.00
4	S	2-Fluorophenol	0.918	0.830	9.6	89	0.00
5	S	Phenol-d6	1.191	1.088	8.6	90	0.00
6		bis(2-Chloroethyl)ether	1.064	0.999	6.1	89	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	97	-0.01
8	S	Nitrobenzene-d5	0.293	0.282	3.8	96	-0.01
9		Naphthalene	1.093	1.041	4.8	94	-0.01
10		Hexachlorobutadiene	0.198	0.192	3.0	95	-0.02
11	SURR	2-Methylnaphthalene-d10	0.530	0.471	11.1	92	-0.02
12		2-Methylnaphthalene	0.676	0.626	7.4	92	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	93	-0.01
14	S	2,4,6-Tribromophenol	0.104	0.105	-1.0	97	-0.01
15	S	2-Fluorobiphenyl	1.673	1.621	3.1	91	-0.01
16		Acenaphthylene	1.834	1.696	7.5	88	-0.01
17		Acenaphthene	1.240	1.186	4.4	91	-0.01
18		Fluorene	1.502	1.324	11.9	85	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	83	-0.01
20		4,6-Dinitro-2-methylphenol	0.037	0.028	24.3	69	-0.01
21		4-Bromophenyl-phenylether	0.261	0.250	4.2	82	-0.01
22		Hexachlorobenzene	0.300	0.318	-6.0	90	-0.01
23		Atrazine	0.166	0.150	9.6	82	-0.01
24		Pentachlorophenol	0.087	0.089	-2.3	99	-0.01
25		Phenanthrene	1.259	1.204	4.4	82	-0.01
26		Anthracene	1.116	1.028	7.9	80	-0.01
27	SURR	Fluoranthene-d10	1.004	0.971	3.3	86	-0.01
28		Fluoranthene	1.381	1.389	-0.6	88	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	90	-0.02
30		Pyrene	1.566	1.521	2.9	88	-0.01
31	S	Terphenyl-d14	0.812	0.741	8.7	83	-0.01
32		Benzo(a)anthracene	1.395	1.290	7.5	86	-0.02
33		Chrysene	1.496	1.494	0.1	90	-0.02
34		Bis(2-ethylhexyl)phthalate	0.414	0.428	-3.4	102	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	93	-0.02
36		Indeno(1,2,3-cd)pyrene	1.681	1.715	-2.0	103	-0.03
37		Benzo(b)fluoranthene	1.575	1.582	-0.4	95	-0.01
38		Benzo(k)fluoranthene	1.606	1.574	2.0	96	-0.02
39	C	Benzo(a)pyrene	1.261	1.221	3.2	95	-0.02
40		Dibenzo(a,h)anthracene	1.342	1.332	0.7	102	-0.03
41		Benzo(g,h,i)perylene	1.506	1.492	0.9	96	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN037830.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037830.D
Acq On : 20 Sep 2025 00:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 20 01:04:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	95	-0.01
2		1,4-Dioxane	0.400	0.379	5.3	89	0.00
3		n-Nitrosodimethylamine	0.400	0.399	0.3	92	0.00
4	S	2-Fluorophenol	0.400	0.361	9.8	89	0.00
5	S	Phenol-d6	0.400	0.365	8.8	90	0.00
6		bis(2-Chloroethyl)ether	0.400	0.376	6.0	89	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	97	-0.01
8	S	Nitrobenzene-d5	0.400	0.386	3.5	96	-0.01
9		Naphthalene	0.400	0.381	4.8	94	-0.01
10		Hexachlorobutadiene	0.400	0.389	2.8	95	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.355	11.3	92	-0.02
12		2-Methylnaphthalene	0.400	0.370	7.5	92	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	93	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.404	-1.0	97	-0.01
15	S	2-Fluorobiphenyl	0.400	0.388	3.0	91	-0.01
16		Acenaphthylene	0.400	0.370	7.5	88	-0.01
17		Acenaphthene	0.400	0.382	4.5	91	-0.01
18		Fluorene	0.400	0.352	12.0	85	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	83	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.297	25.8#	69	-0.01
21		4-Bromophenyl-phenylether	0.400	0.383	4.3	82	-0.01
22		Hexachlorobenzene	0.400	0.424	-6.0	90	-0.01
23		Atrazine	0.400	0.361	9.8	82	-0.01
24		Pentachlorophenol	0.400	0.408	-2.0	99	-0.01
25		Phenanthrene	0.400	0.383	4.3	82	-0.01
26		Anthracene	0.400	0.369	7.8	80	-0.01
27	SURR	Fluoranthene-d10	0.400	0.387	3.3	86	-0.01
28		Fluoranthene	0.400	0.402	-0.5	88	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	90	-0.02
30		Pyrene	0.400	0.388	3.0	88	-0.01
31	S	Terphenyl-d14	0.400	0.365	8.8	83	-0.01
32		Benzo(a)anthracene	0.400	0.370	7.5	86	-0.02
33		Chrysene	0.400	0.399	0.3	90	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.414	-3.5	102	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	93	-0.02
36		Indeno(1,2,3-cd)pyrene	0.400	0.408	-2.0	103	-0.03
37		Benzo(b)fluoranthene	0.400	0.402	-0.5	95	-0.01
38		Benzo(k)fluoranthene	0.400	0.392	2.0	96	-0.02
39	C	Benzo(a)pyrene	0.400	0.387	3.3	95	-0.02
40		Dibenzo(a,h)anthracene	0.400	0.397	0.8	102	-0.03
41		Benzo(g,h,i)perylene	0.400	0.396	1.0	96	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15		
Lab Code:	ACE	SDG No.:	Q3097		
Instrument ID:	BNA_N	Calibration Date/Time:	09/20/2025	02:35	
Lab File ID:	BN037832.D	Init. Calib. Date(s):	09/11/2025	09/11/2025	
EPA Sample No.:	SSTDCCC0.4	Init. Calib. Time(s):	09:56	13:33	

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.469		-11.5	20.0
Fluoranthene-d10	1.004	0.832		-17.1	20.0
2-Fluorophenol	0.918	0.870		-5.2	20.0
Phenol-d6	1.191	1.110		-6.8	20.0
Nitrobenzene-d5	0.293	0.281		-4.1	20.0
2-Fluorobiphenyl	1.673	1.666		-0.4	20.0
2,4,6-Tribromophenol	0.104	0.112		7.7	20.0
Terphenyl-d14	0.812	0.693		-14.7	20.0
1,4-Dioxane	0.417	0.400		-4.1	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037832.D
Acq On : 20 Sep 2025 02:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

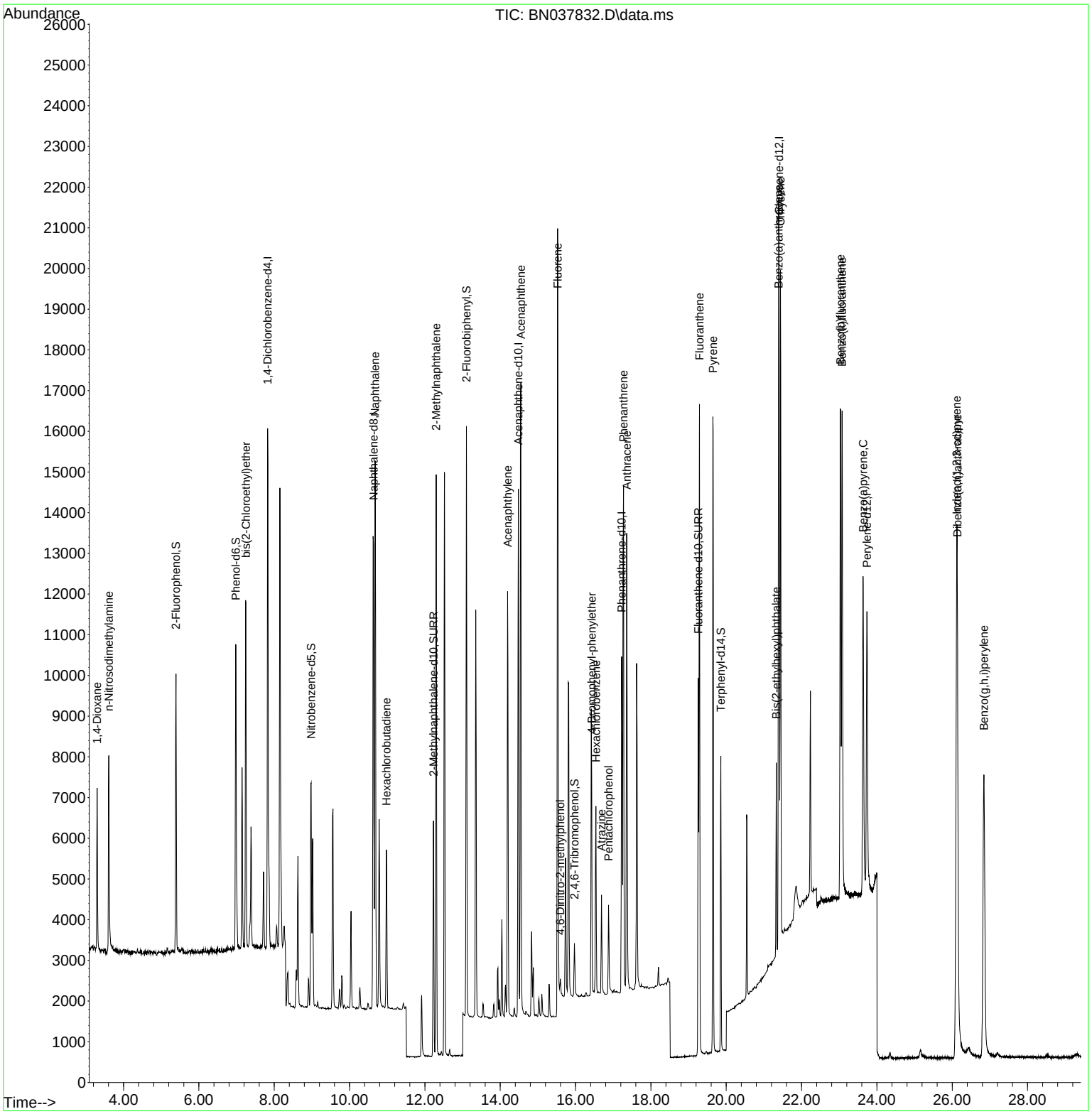
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.825	152	6232	0.400	ng		-0.01
7) Naphthalene-d8	10.637	136	16500	0.400	ng		#-0.01
13) Acenaphthene-d10	14.484	164	7183	0.400	ng		-0.01
19) Phenanthrene-d10	17.223	188	11907	0.400	ng		-0.01
29) Chrysene-d12	21.402	240	9777	0.400	ng		#-0.02
35) Perylene-d12	23.736	264	10066	0.400	ng		#-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	5.392	112	5424	0.379	ng		0.00
5) Phenol-d6	6.980	99	6919	0.373	ng		0.00
8) Nitrobenzene-d5	8.982	82	4642	0.385	ng		-0.01
11) 2-Methylnaphthalene-d10	12.227	152	7736	0.354	ng		-0.02
14) 2,4,6-Tribromophenol	15.969	330	801	0.428	ng		-0.01
15) 2-Fluorobiphenyl	13.105	172	11968	0.398	ng		-0.01
27) Fluoranthene-d10	19.257	212	9903	0.331	ng		-0.01
31) Terphenyl-d14	19.856	244	6777	0.342	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	2495	0.384	ng		95
3) n-Nitrosodimethylamine	3.608	42	2977	0.351	ng	#	86
6) bis(2-Chloroethyl)ether	7.248	93	6444	0.389	ng		99
9) Naphthalene	10.680	128	17368	0.385	ng		99
10) Hexachlorobutadiene	10.979	225	3074	0.377	ng	#	100
12) 2-Methylnaphthalene	12.298	142	10342	0.371	ng		100
16) Acenaphthylene	14.195	152	12222	0.371	ng		99
17) Acenaphthene	14.548	154	8331	0.374	ng		97
18) Fluorene	15.522	166	9643	0.357	ng		99
20) 4,6-Dinitro-2-methylph...	15.597	198	300	0.272	ng	#	66
21) 4-Bromophenyl-phenylether	16.429	248	3001	0.386	ng		97
22) Hexachlorobenzene	16.540	284	3776	0.423	ng		99
23) Atrazine	16.689	200	1825	0.369	ng		96
24) Pentachlorophenol	16.875	266	1159	0.447	ng		97
25) Phenanthrene	17.273	178	14378	0.384	ng		99
26) Anthracene	17.360	178	12209	0.368	ng		100
28) Fluoranthene	19.290	202	14335	0.349	ng		100
30) Pyrene	19.647	202	14225	0.372	ng		100
32) Benzo(a)anthracene	21.393	228	13107	0.384	ng		100
33) Chrysene	21.438	228	14113	0.386	ng		99
34) Bis(2-ethylhexyl)phtha...	21.331	149	4249	0.420	ng	#	99
36) Indeno(1,2,3-cd)pyrene	26.118	276	18036	0.426	ng		100
37) Benzo(b)fluoranthene	23.031	252	15833	0.399	ng	#	95
38) Benzo(k)fluoranthene	23.078	252	15748	0.390	ng	#	95
39) Benzo(a)pyrene	23.633	252	12481	0.393	ng	#	93
40) Dibenzo(a,h)anthracene	26.136	278	14128	0.418	ng		97
41) Benzo(g,h,i)perylene	26.841	276	16240	0.429	ng		99

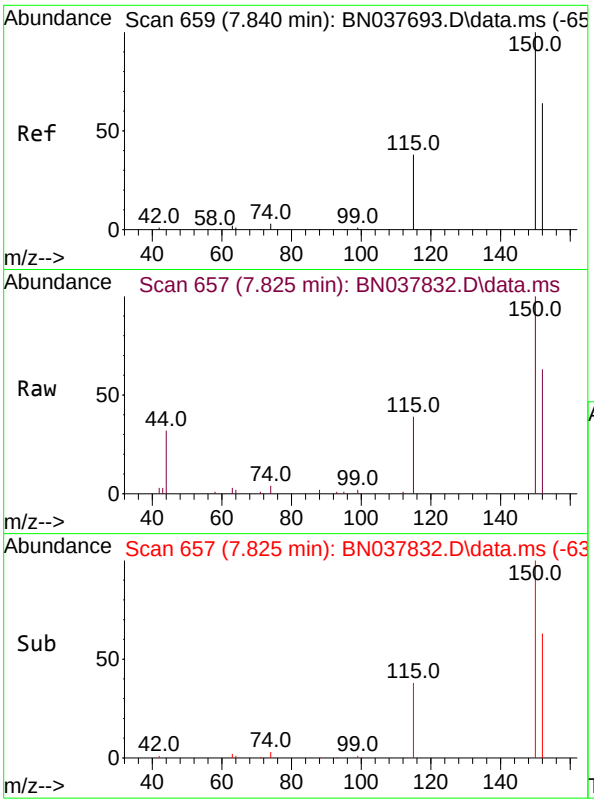
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037832.D
Acq On : 20 Sep 2025 02:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



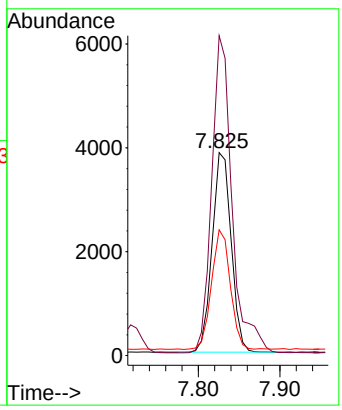


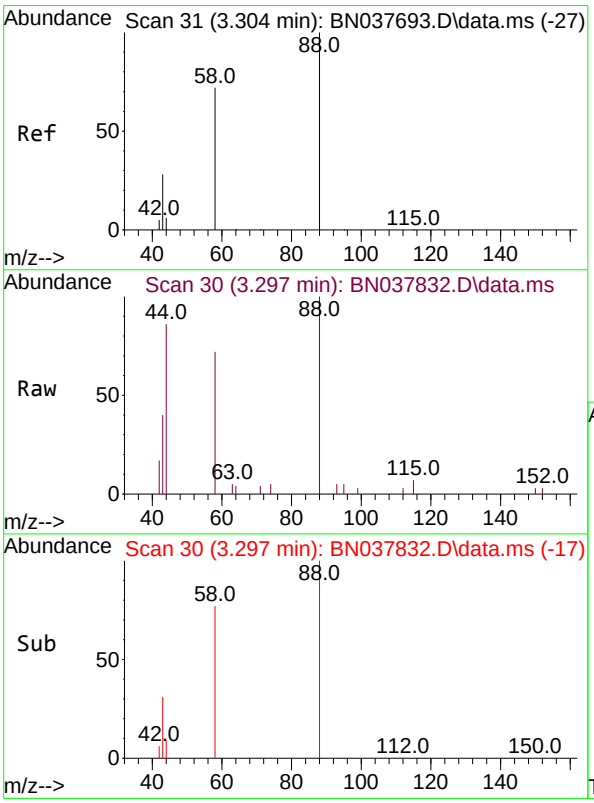
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 6232

Ion	Ratio	Lower	Upper
152	100		
150	157.7	124.5	186.7
115	62.0	49.2	73.8

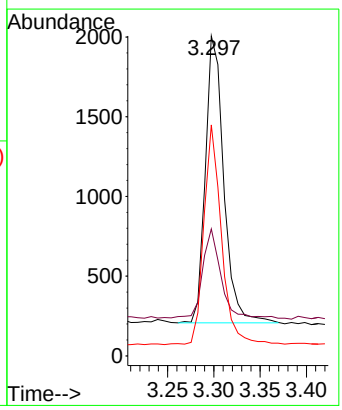


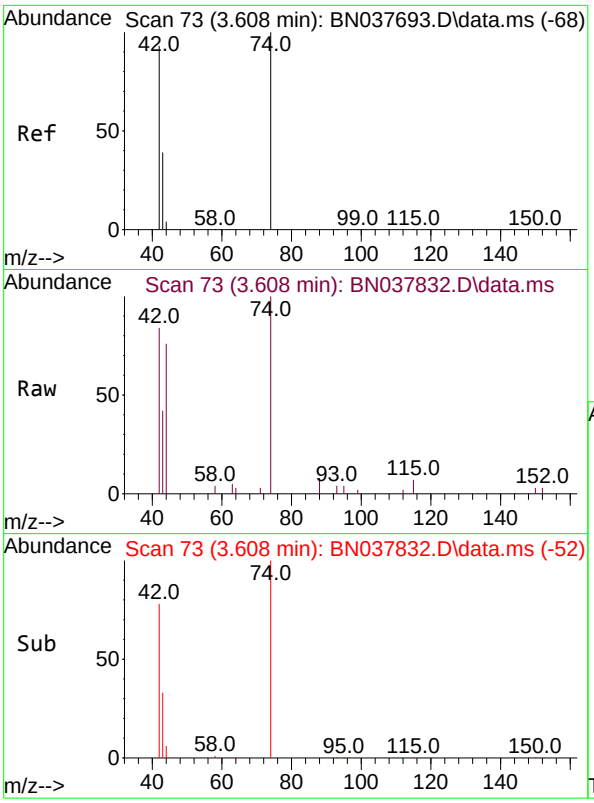


#2
1,4-Dioxane
Concen: 0.384 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion: 88 Resp: 2495

Ion	Ratio	Lower	Upper
88	100		
43	30.4	26.8	40.2
58	73.1	61.9	92.9



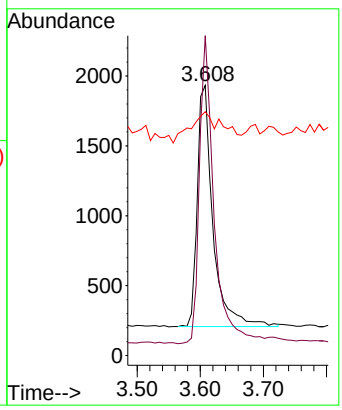


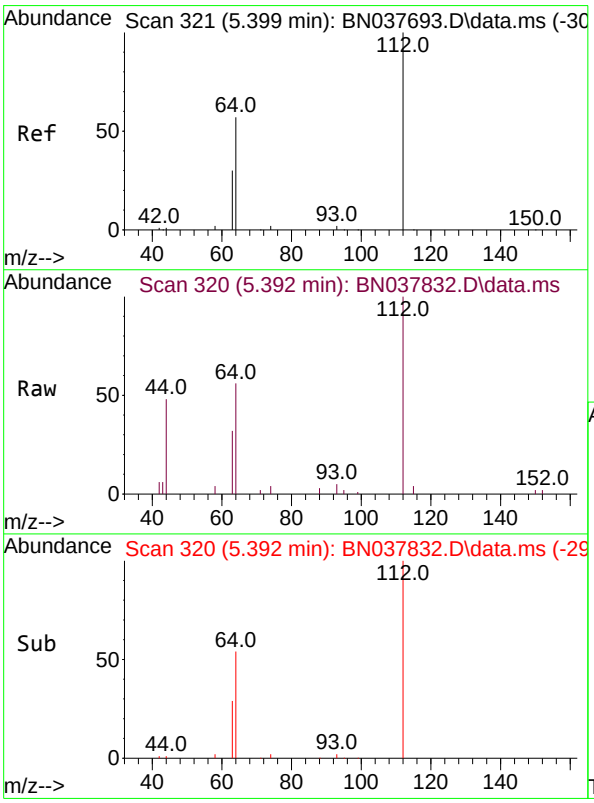
#3
n-Nitrosodimethylamine
Concen: 0.351 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2977

Ion	Ratio	Lower	Upper
42	100		
74	119.4	86.0	129.0
44	26.8	8.4	12.6#

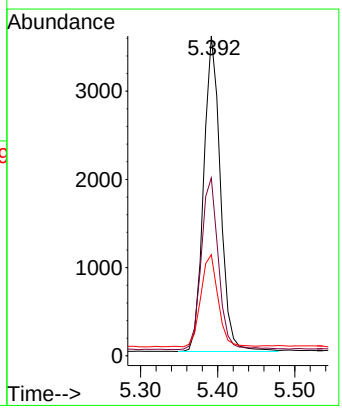


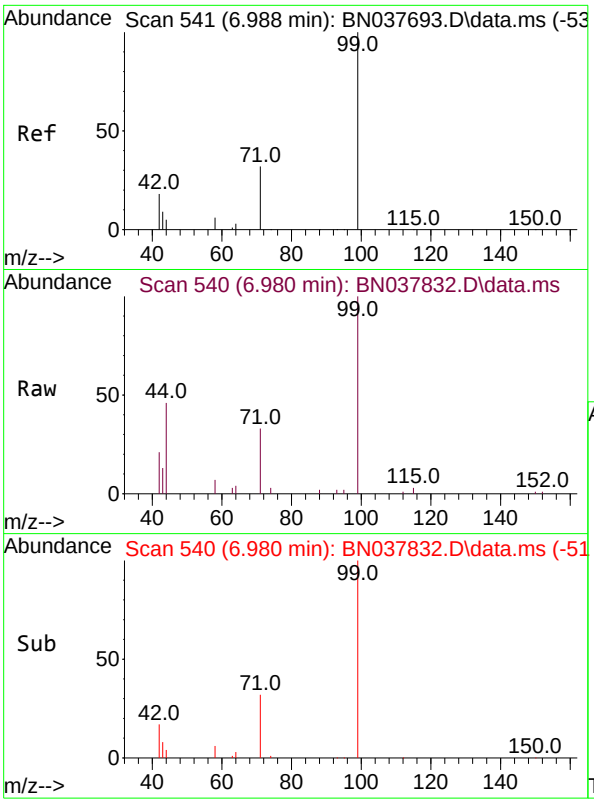


#4
2-Fluorophenol
Concen: 0.379 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:112 Resp: 5424

Ion	Ratio	Lower	Upper
112	100		
64	55.6	44.9	67.3
63	29.8	24.7	37.1



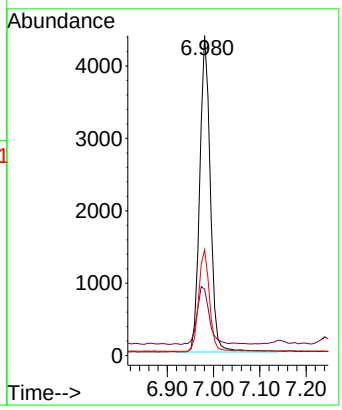


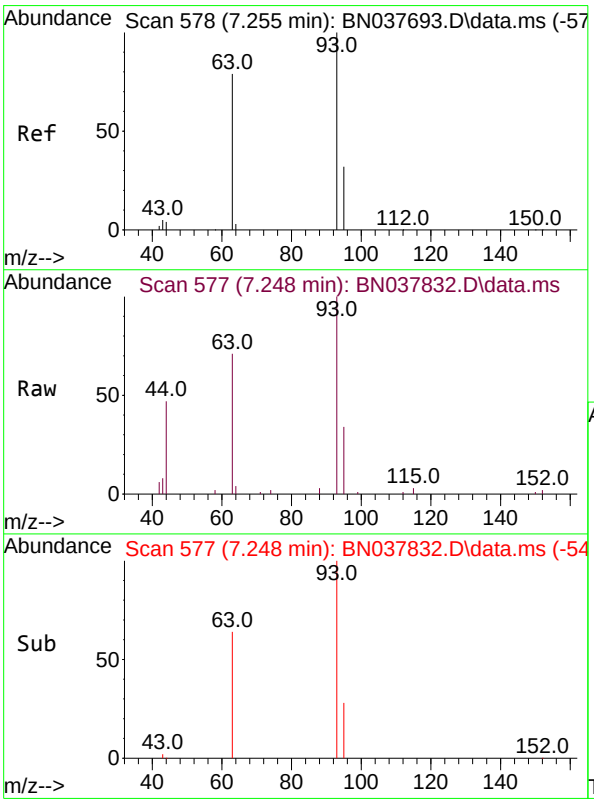
#5
Phenol-d6
Concen: 0.373 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 6919

Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.6	24.8
71	33.0	26.7	40.1

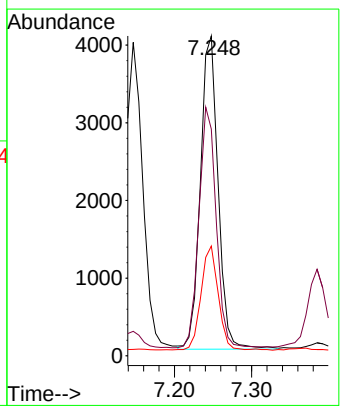


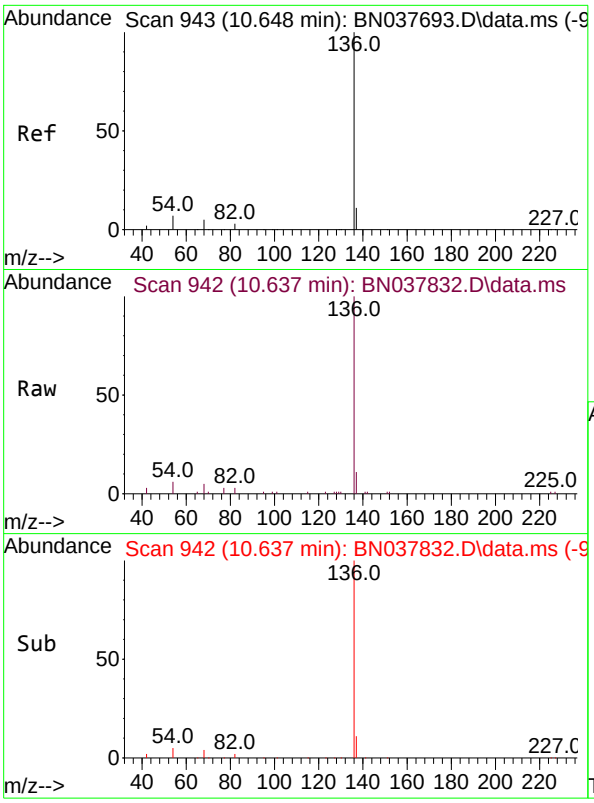


#6
bis(2-Chloroethyl)ether
Concen: 0.389 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion: 93 Resp: 6444

Ion	Ratio	Lower	Upper
93	100		
63	75.0	60.6	90.8
95	32.4	26.0	39.0



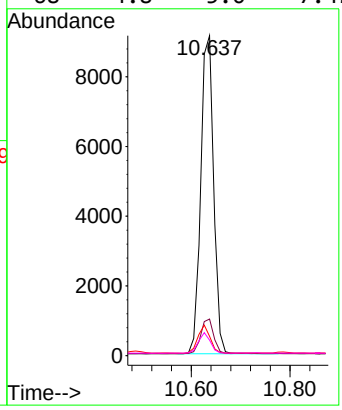


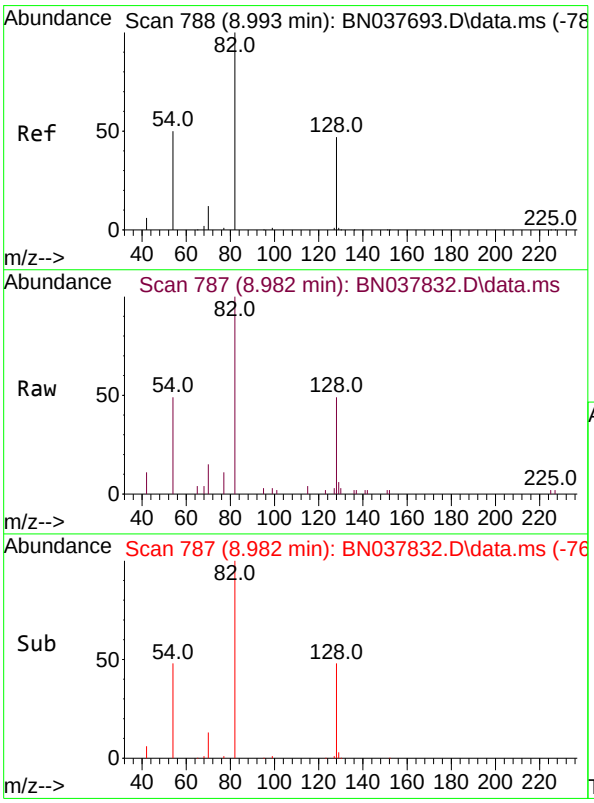
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 16500

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	6.0	6.3	9.5#
68	4.8	5.0	7.4#

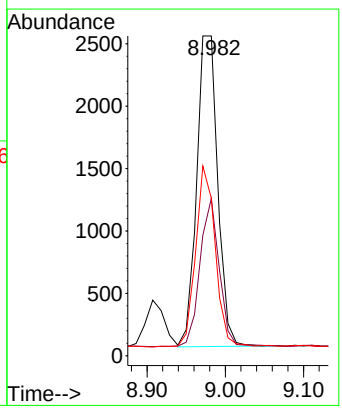


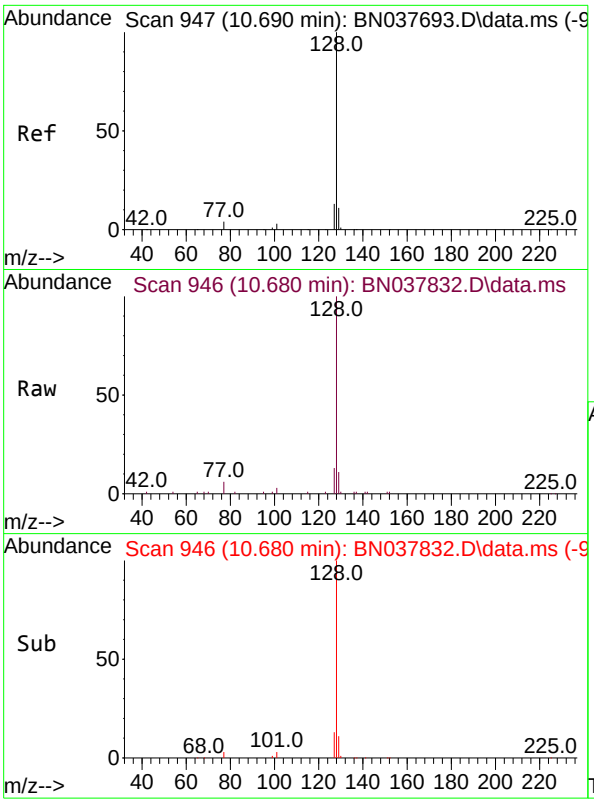


#8
Nitrobenzene-d5
Concen: 0.385 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion: 82 Resp: 4642

Ion	Ratio	Lower	Upper
82	100		
128	49.2	38.3	57.5
54	49.2	41.4	62.2



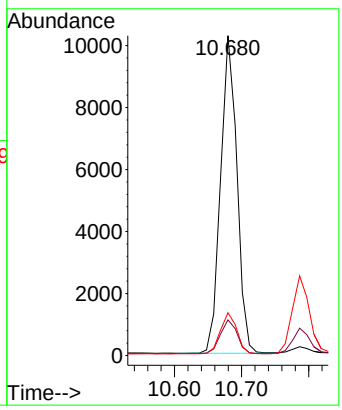


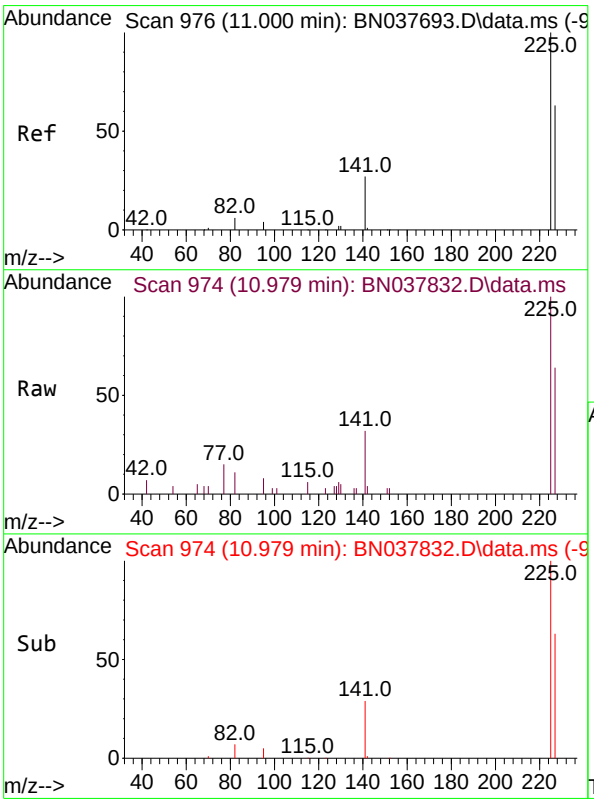
#9
Naphthalene
Concen: 0.385 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 17368

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.1	13.7
127	13.4	10.9	16.3

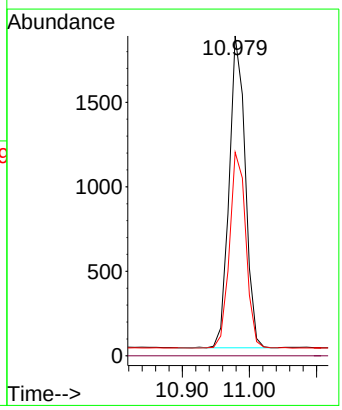


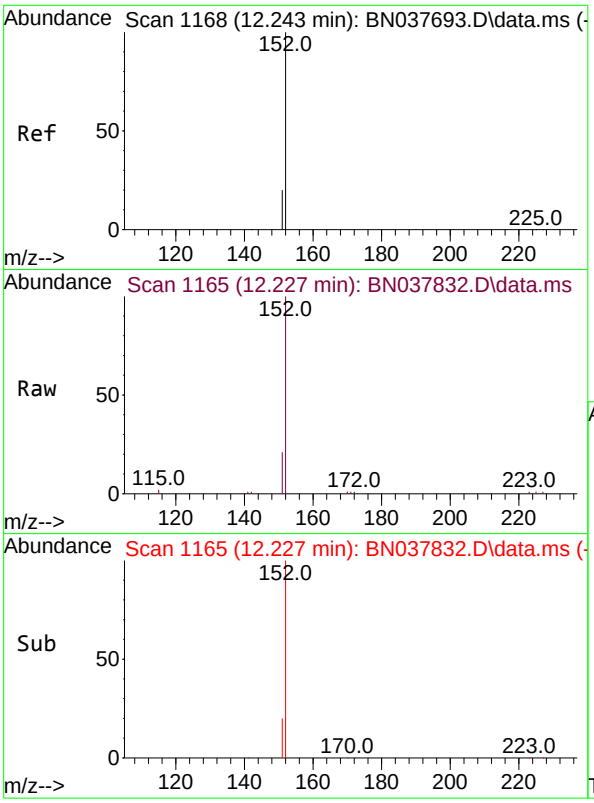


#10
Hexachlorobutadiene
Concen: 0.377 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:225 Resp: 3074

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	50.9	76.3



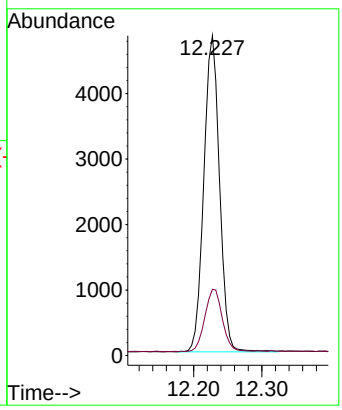


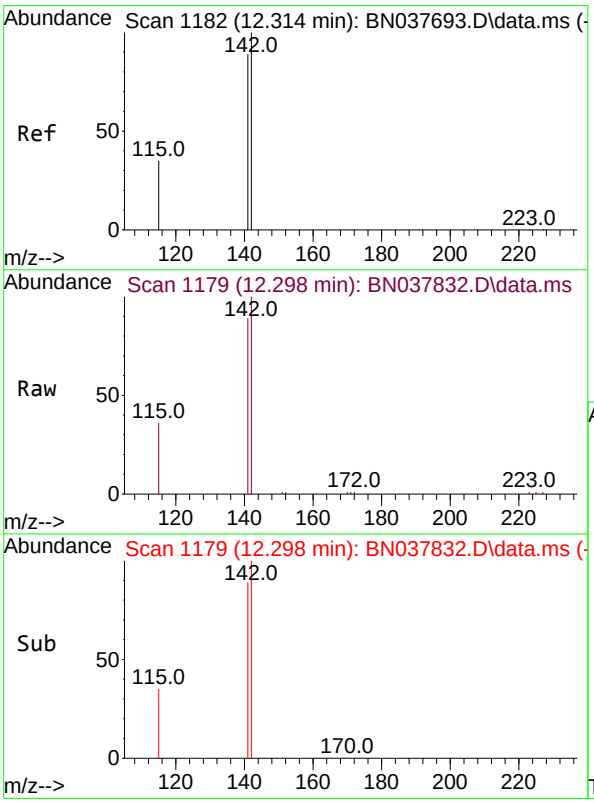
#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 7736

Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.0	25.6

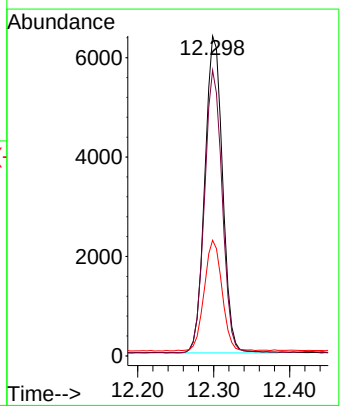


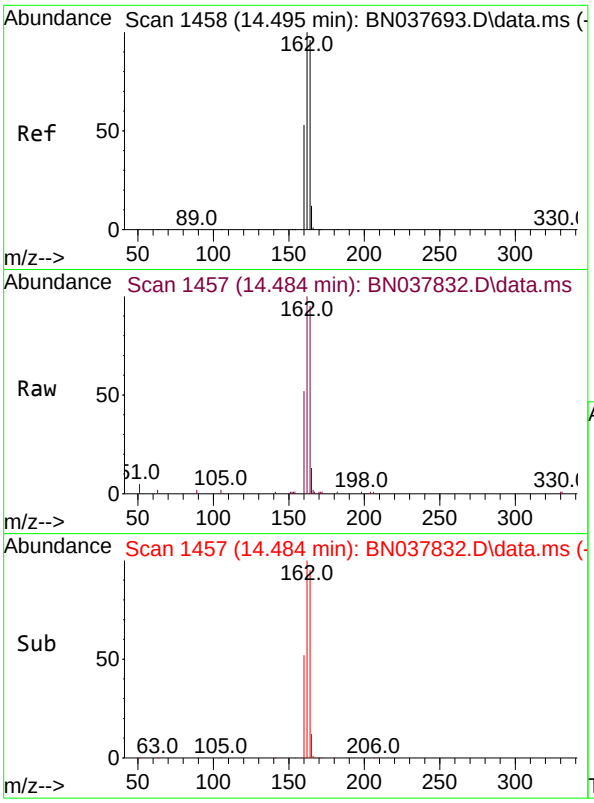


#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 12.298 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:142 Resp: 10342

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.6	107.4
115	36.1	28.6	43.0



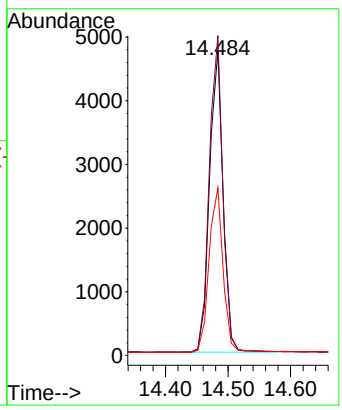


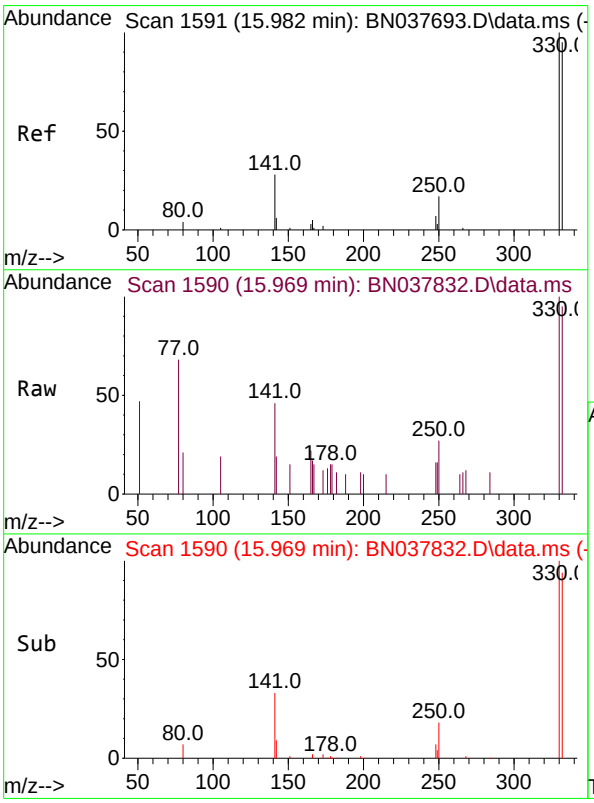
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 7183

Ion	Ratio	Lower	Upper
164	100		
162	104.8	83.1	124.7
160	54.9	44.3	66.5

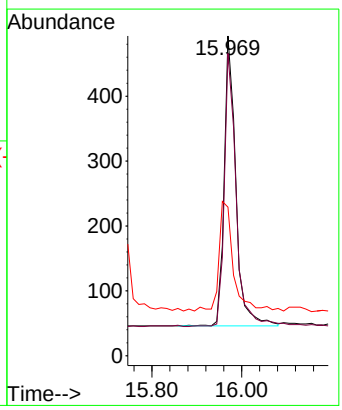


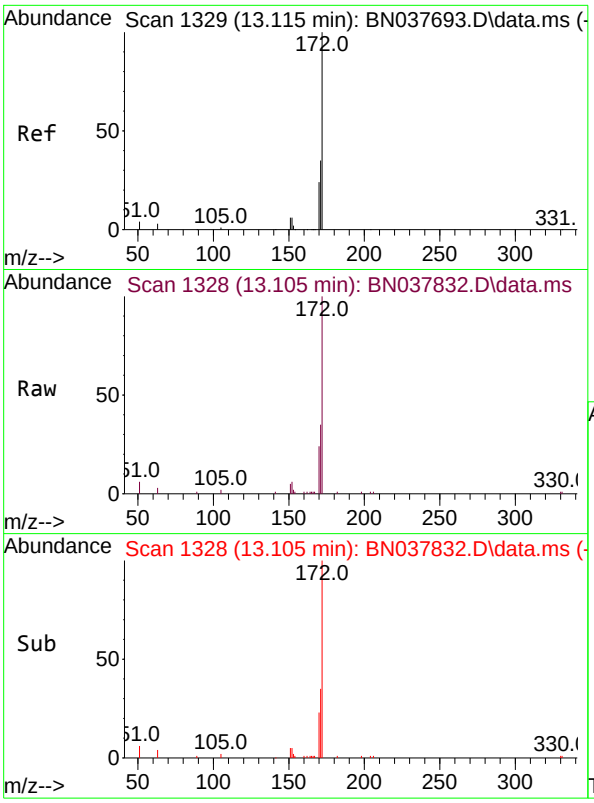


#14
2,4,6-Tribromophenol
Concen: 0.428 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:330 Resp: 801

Ion	Ratio	Lower	Upper
330	100		
332	96.4	75.3	112.9
141	46.8	35.0	52.4



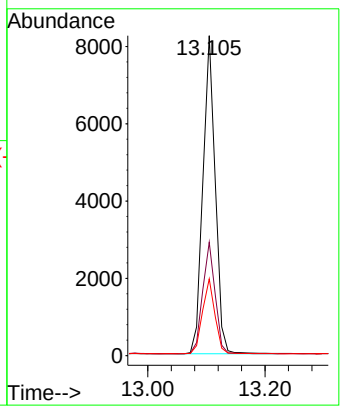


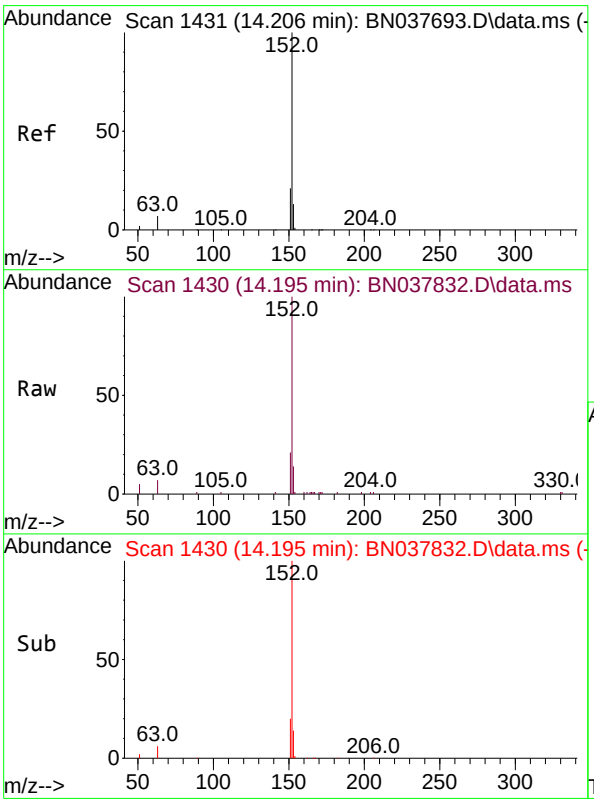
#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 11968

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	43.0
170	24.0	19.8	29.8

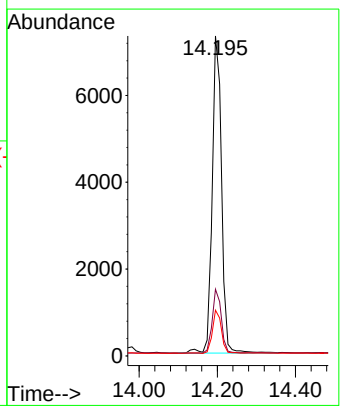


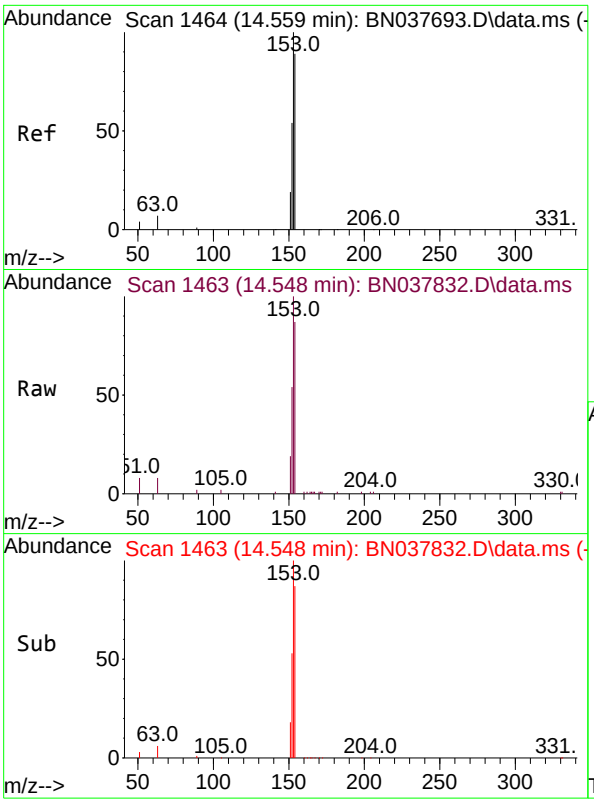


#16
Acenaphthylene
Concen: 0.371 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:152 Resp: 12222

Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.2	24.2
153	12.6	10.4	15.6



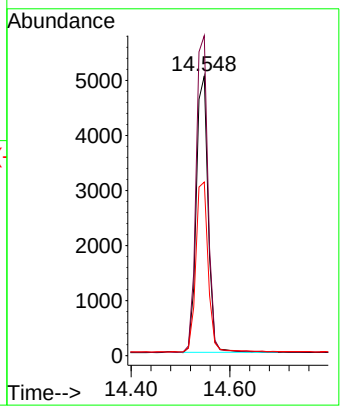


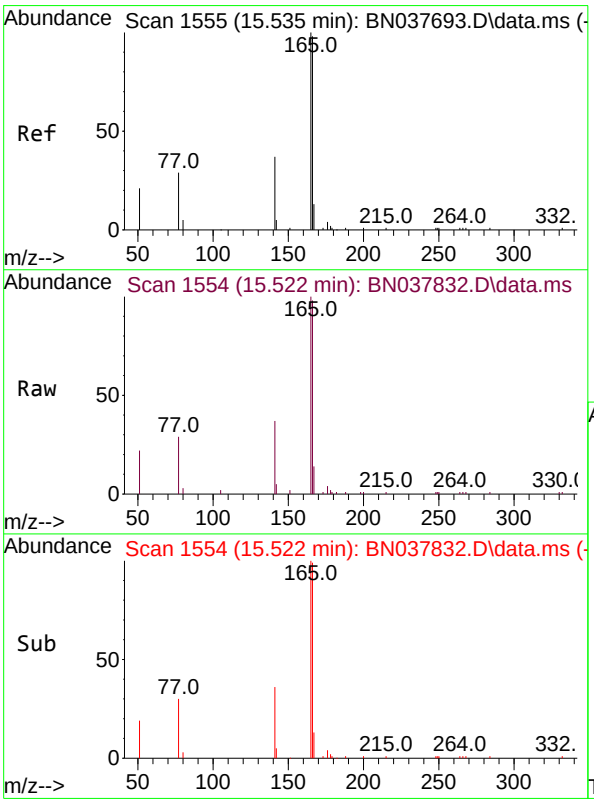
#17
Acenaphthene
Concen: 0.374 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 8331

Ion	Ratio	Lower	Upper
154	100		
153	116.5	89.8	134.8
152	64.6	50.2	75.2

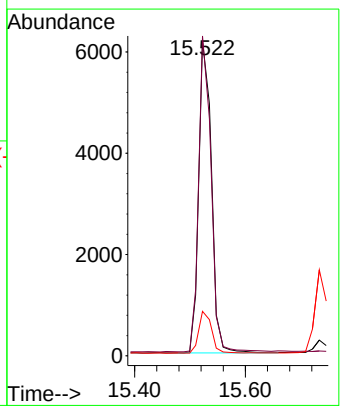


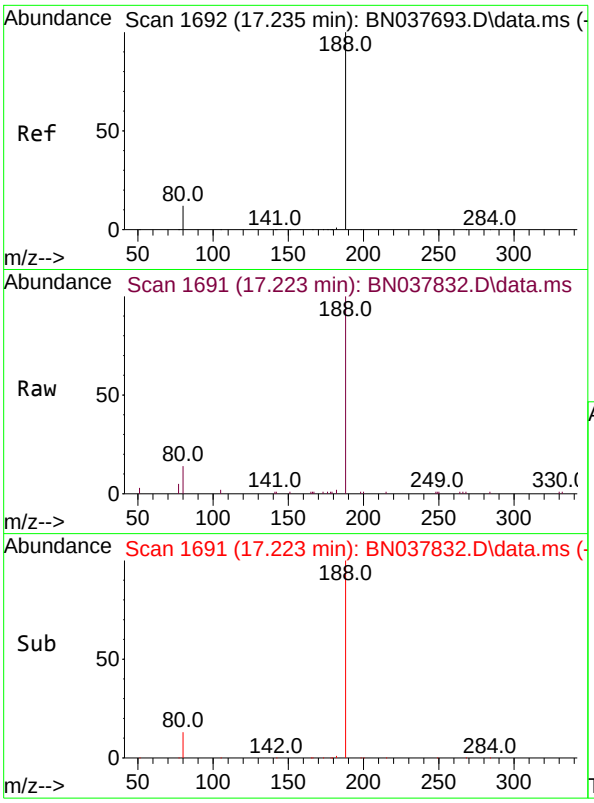


#18
Fluorene
Concen: 0.357 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:166 Resp: 9643

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.6	119.4
167	13.6	10.6	16.0



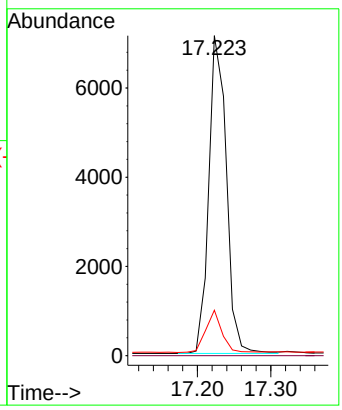


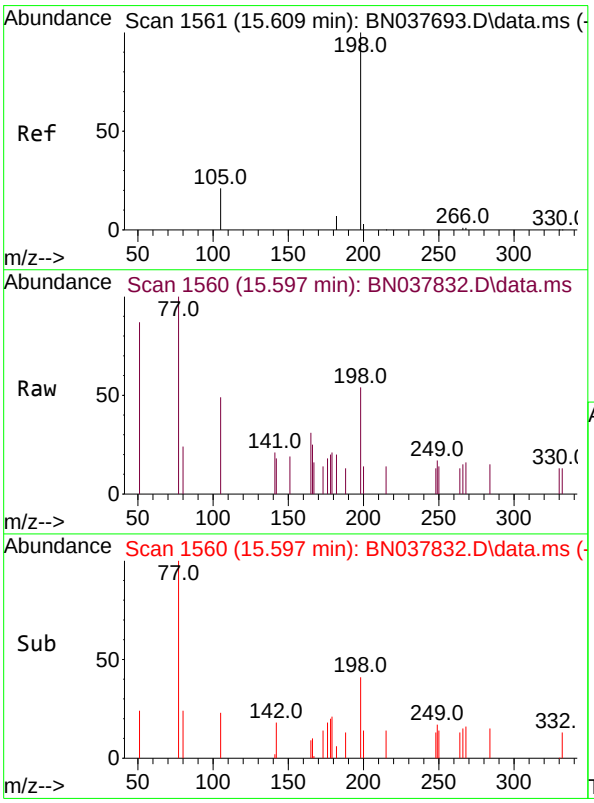
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 11907

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.2	10.6	15.8

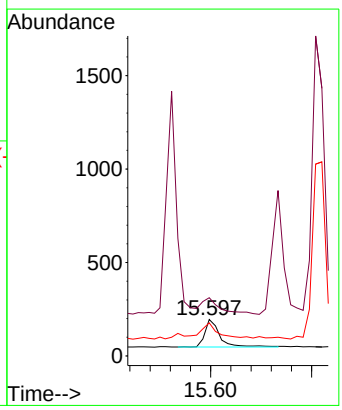


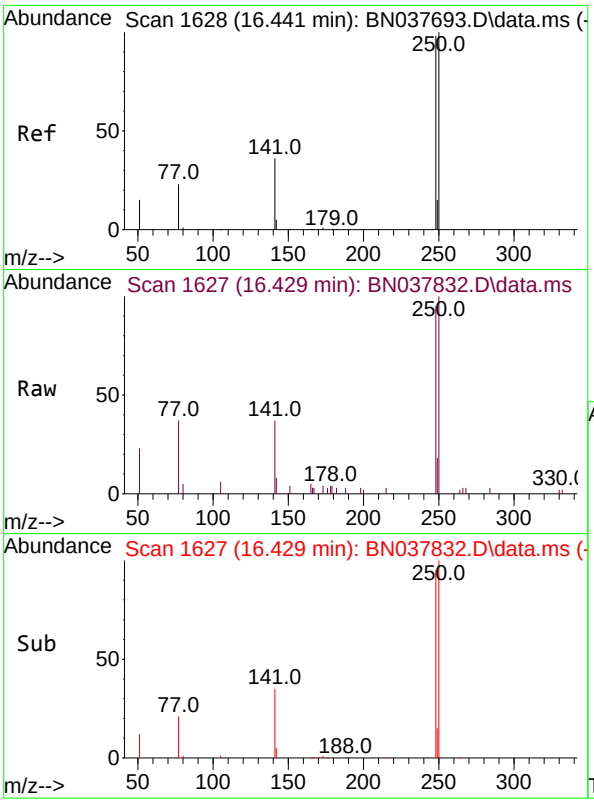


#20
4,6-Dinitro-2-methylphenol
Concen: 0.272 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:198 Resp: 300

Ion	Ratio	Lower	Upper
198	100		
51	160.0	95.1	142.7#
105	90.8	53.8	80.6#



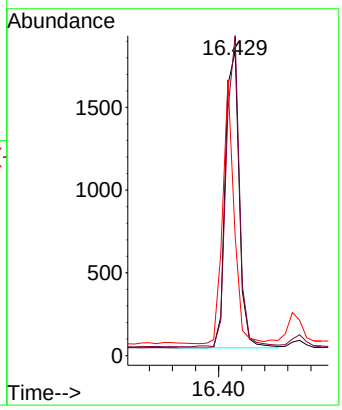


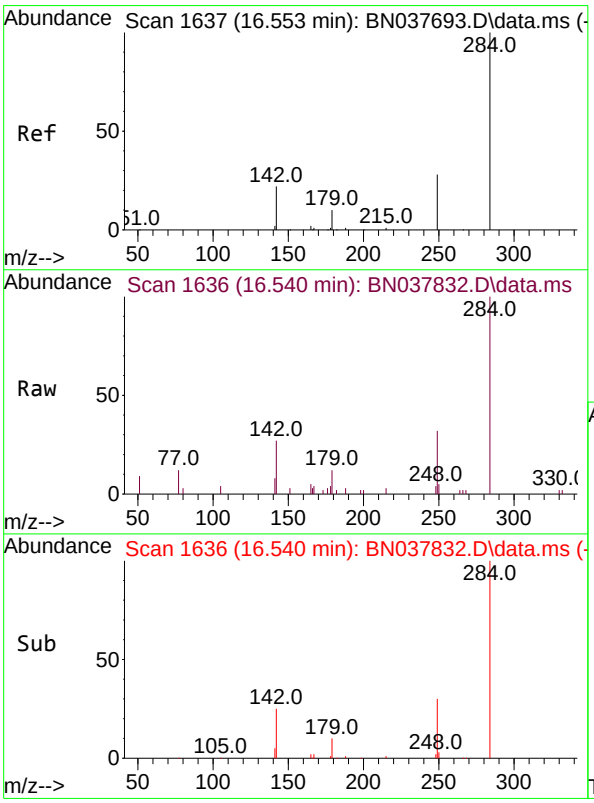
#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 3001

Ion	Ratio	Lower	Upper
248	100		
250	105.2	81.5	122.3
141	39.2	30.8	46.2

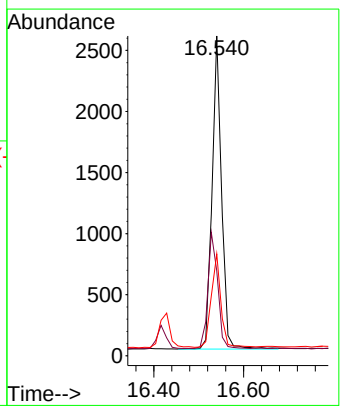


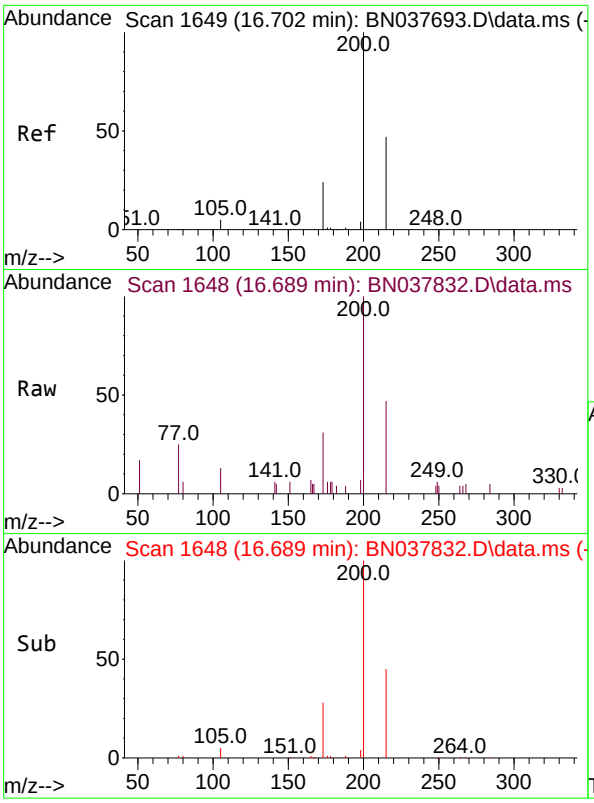


#22
Hexachlorobenzene
Concen: 0.423 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:284 Resp: 3776

Ion	Ratio	Lower	Upper
284	100		
142	38.3	30.9	46.3
249	30.2	24.8	37.2



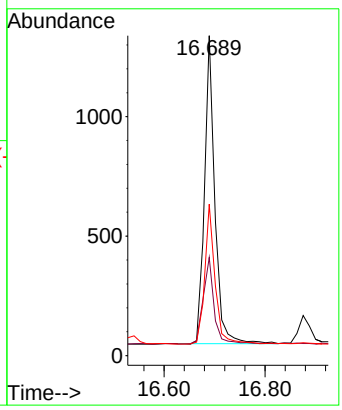


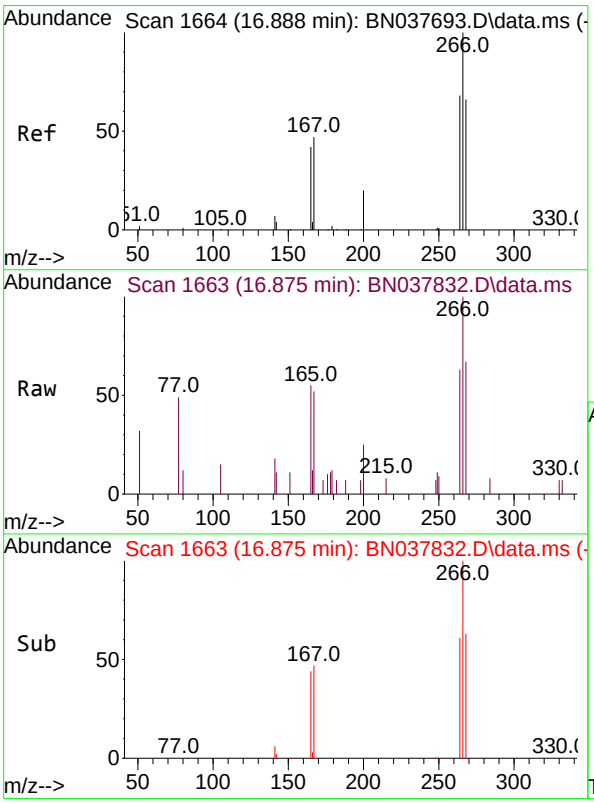
#23
Atrazine
Concen: 0.369 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1825

Ion	Ratio	Lower	Upper
200	100		
173	30.7	21.4	32.2
215	47.3	39.2	58.8

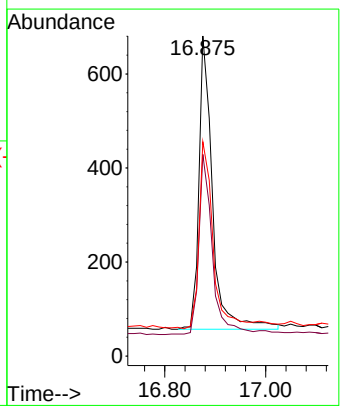


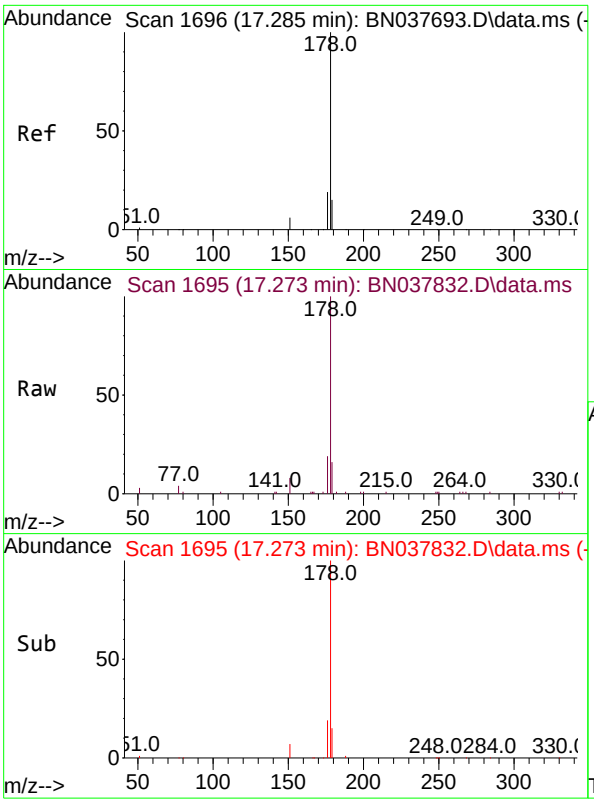


#24
Pentachlorophenol
Concen: 0.447 ng
RT: 16.875 min Scan# 1663
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:266 Resp: 1159

Ion	Ratio	Lower	Upper
266	100		
264	61.9	51.6	77.4
268	65.0	53.2	79.8



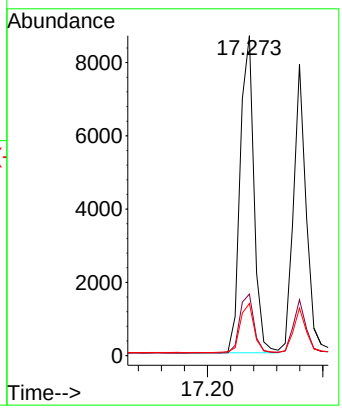


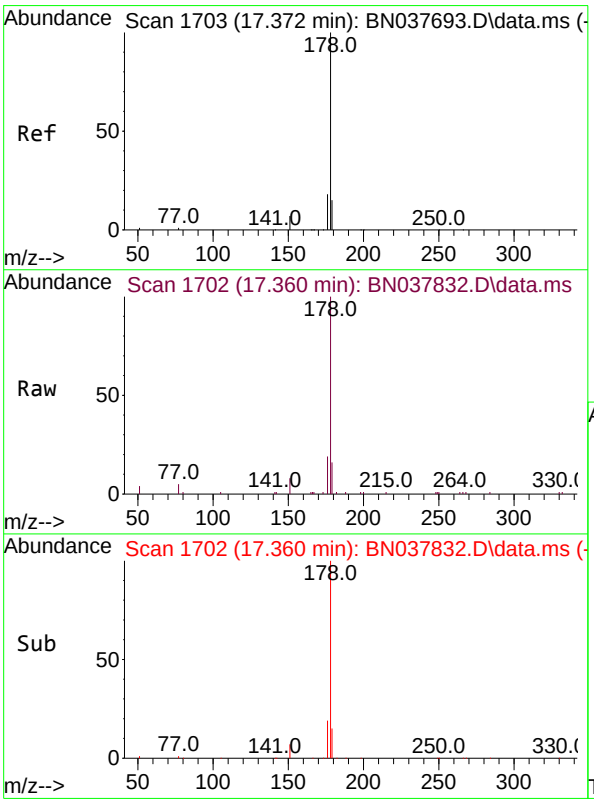
#25
Phenanthrene
Concen: 0.384 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 14378

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.3	22.9
179	15.6	12.2	18.2

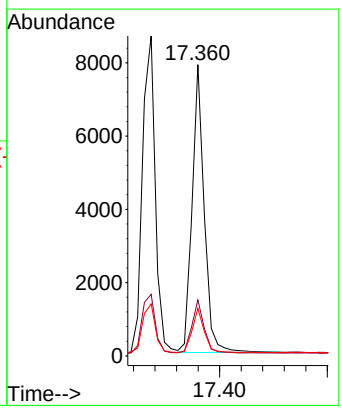


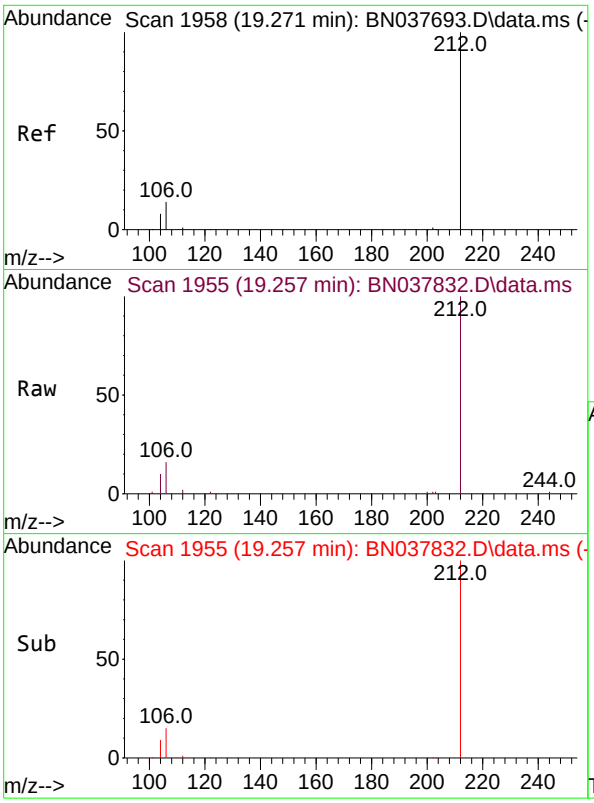


#26
Anthracene
Concen: 0.368 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:178 Resp: 12209

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	22.0
179	15.2	12.2	18.4



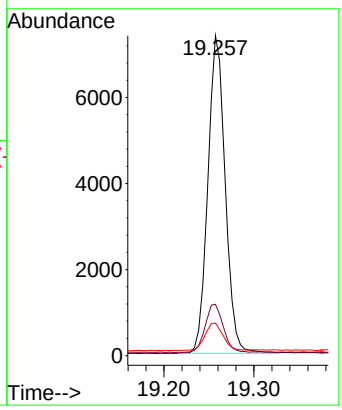


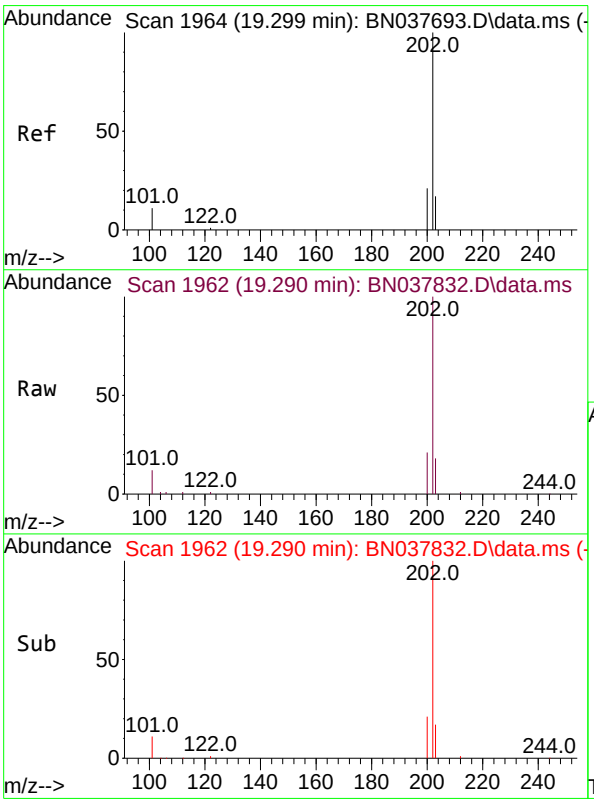
#27
Fluoranthene-d10
Concen: 0.331 ng
RT: 19.257 min Scan# 19
Delta R.T. -0.014 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 9903

Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	9.1	6.9	10.3

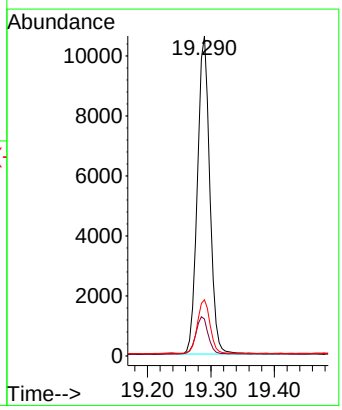


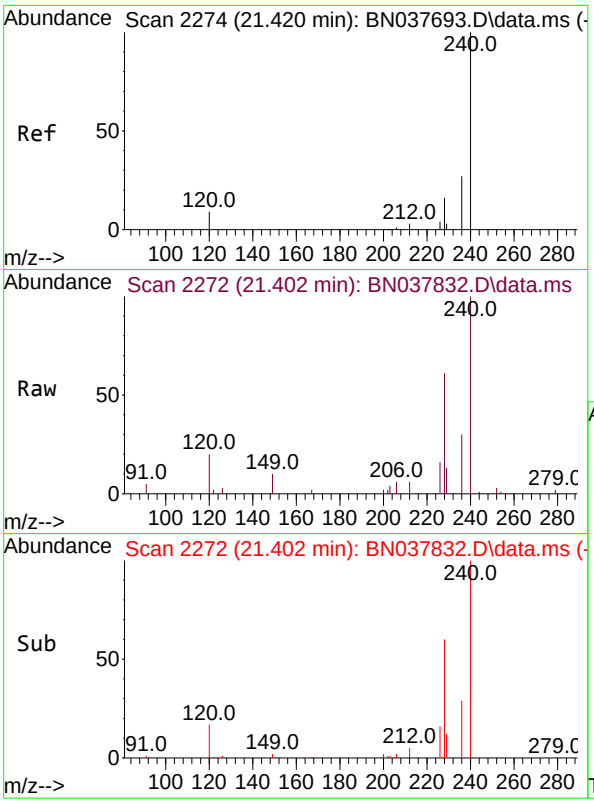


#28
Fluoranthene
Concen: 0.349 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:202 Resp: 14335

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.3	13.9
203	17.1	13.7	20.5



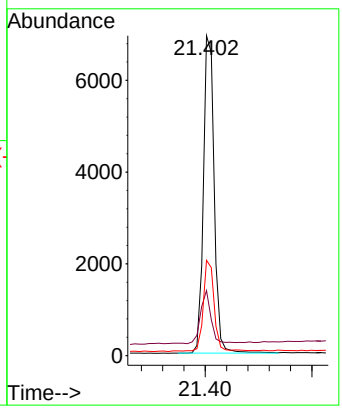


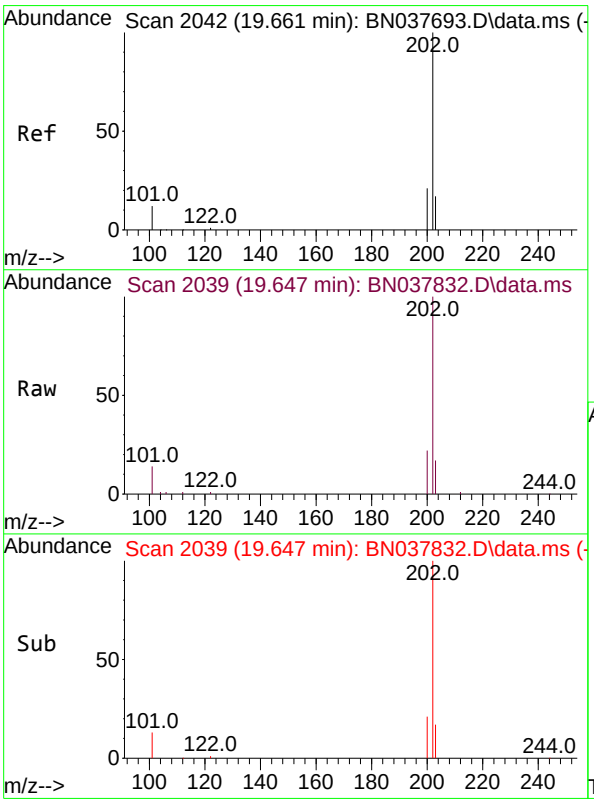
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 9777

Ion	Ratio	Lower	Upper
240	100		
120	20.3	9.2	13.8#
236	29.8	22.6	33.8

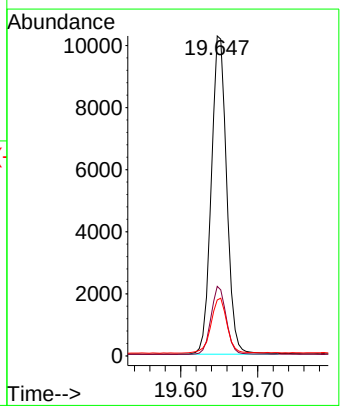


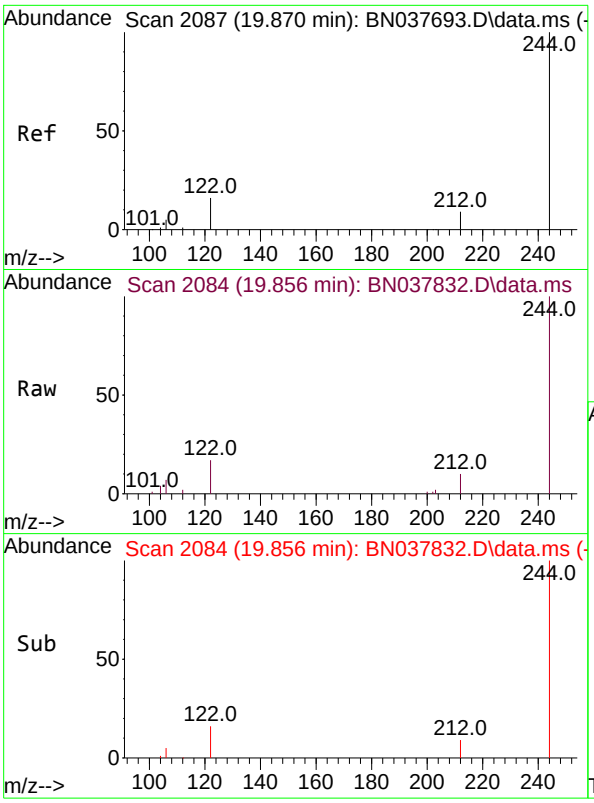


#30
Pyrene
Concen: 0.372 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.014 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:202 Resp: 14225

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.9	14.3	21.5



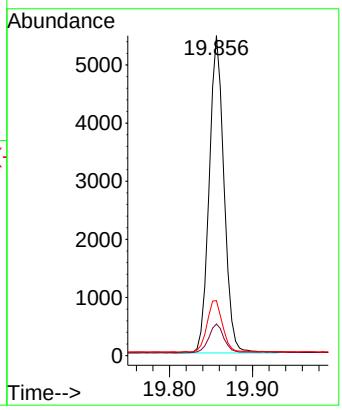


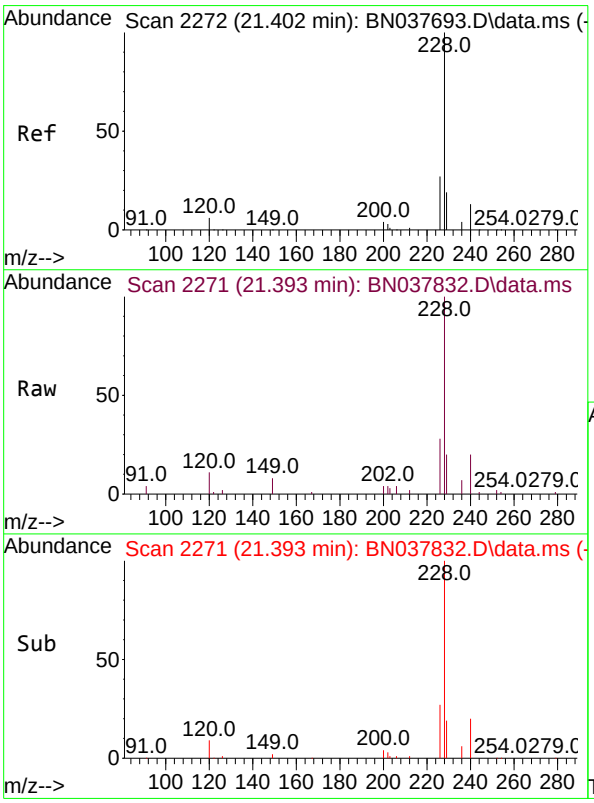
#31
Terphenyl-d14
Concen: 0.342 ng
RT: 19.856 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 6777

Ion	Ratio	Lower	Upper
244	100		
212	9.9	7.5	11.3
122	17.2	13.2	19.8

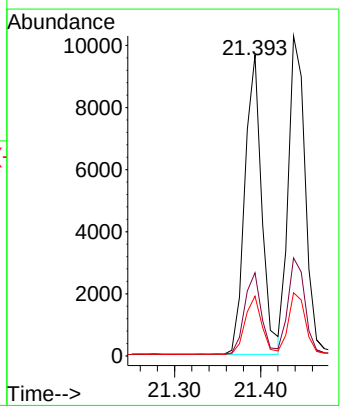


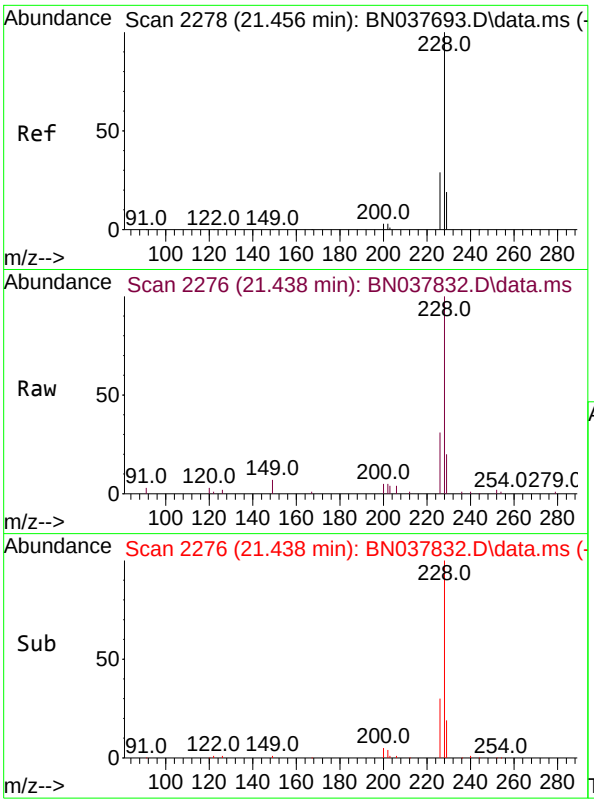


#32
Benzo(a)anthracene
Concen: 0.384 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:228 Resp: 13107

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.2	33.2
229	19.9	15.8	23.6



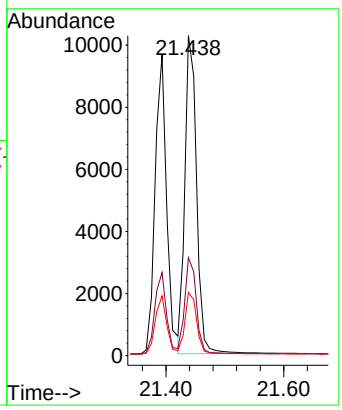


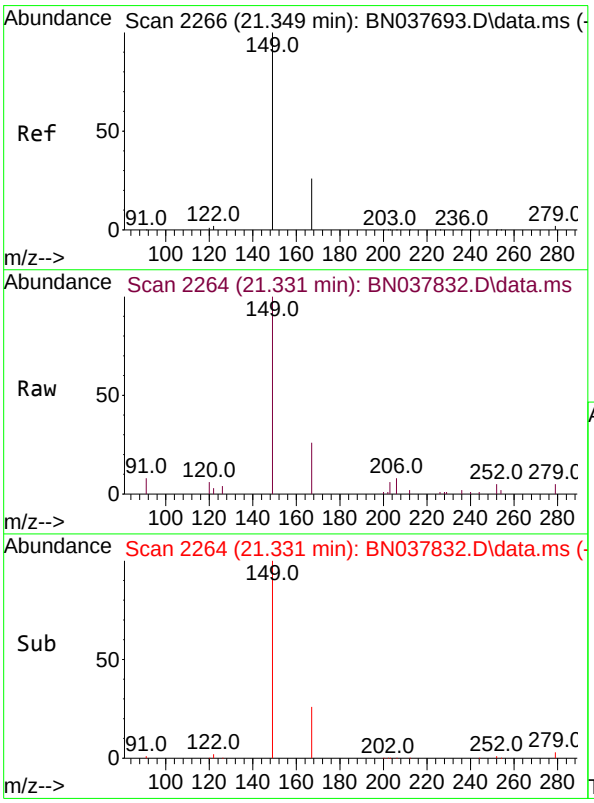
#33
Chrysene
Concen: 0.386 ng
RT: 21.438 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 14113

Ion	Ratio	Lower	Upper
228	100		
226	30.6	23.5	35.3
229	19.7	15.9	23.9

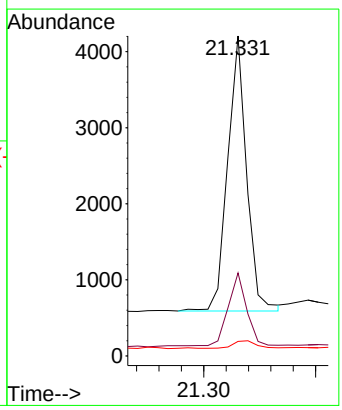


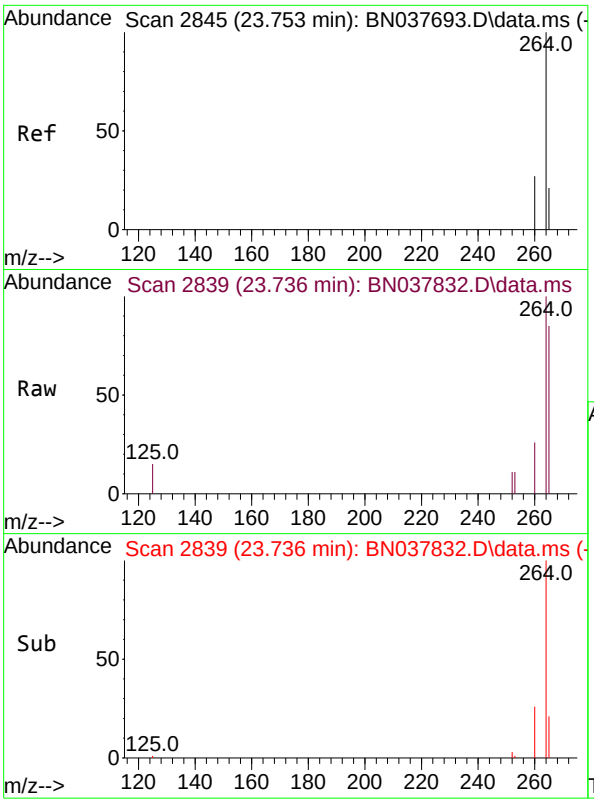


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.420 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:149 Resp: 4249

Ion	Ratio	Lower	Upper
149	100		
167	25.7	20.8	31.2
279	3.2	3.3	4.9#



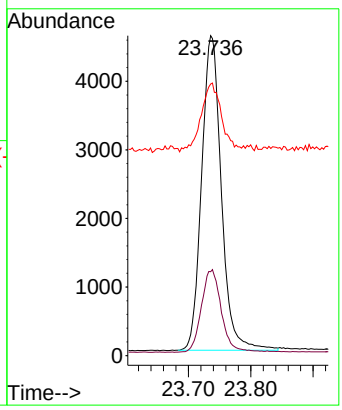


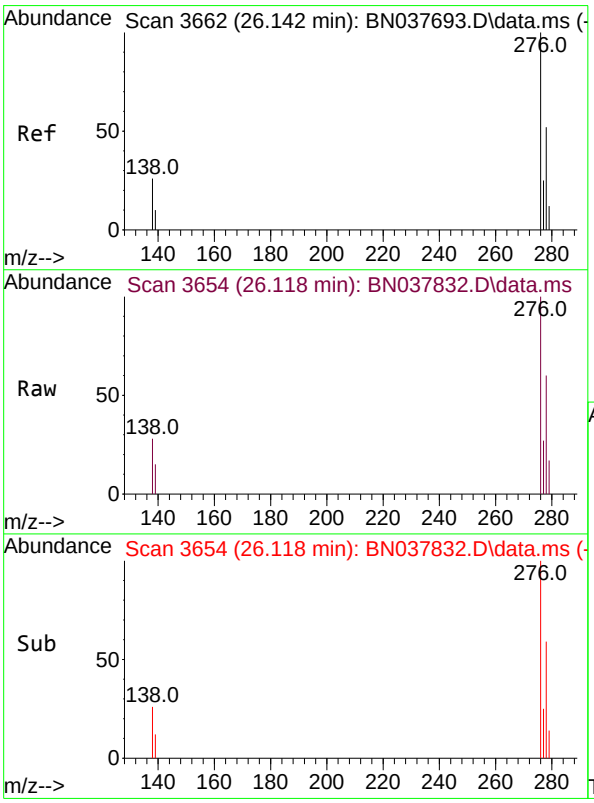
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 28
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 10066

Ion	Ratio	Lower	Upper
264	100		
260	26.2	21.8	32.8
265	84.9	39.4	59.2#

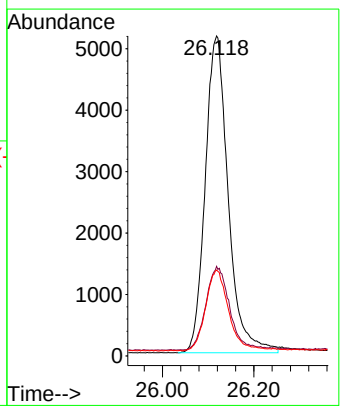


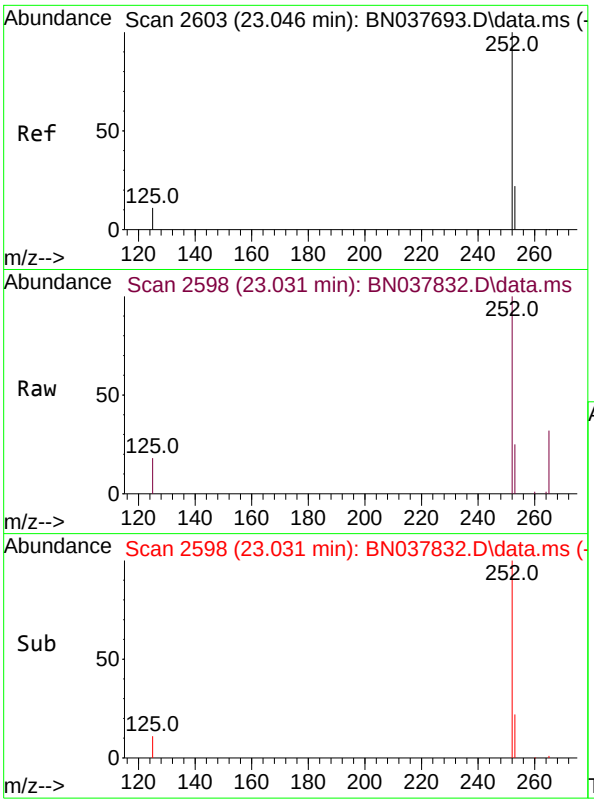


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.426 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.023 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:276 Resp: 18036

Ion	Ratio	Lower	Upper
276	100		
138	27.1	21.9	32.9
277	25.3	20.1	30.1



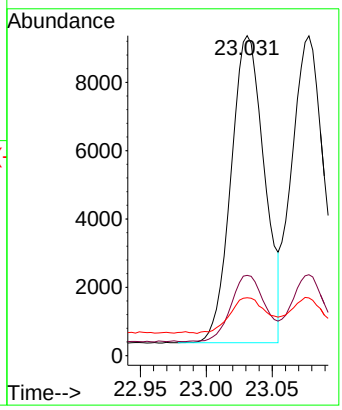


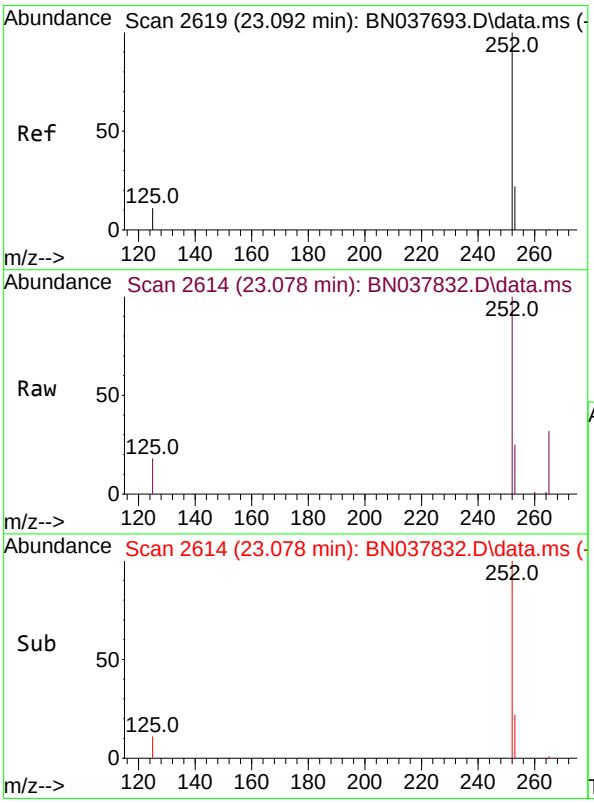
#37
Benzo(b)fluoranthene
Concen: 0.399 ng
RT: 23.031 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 15833

Ion	Ratio	Lower	Upper
252	100		
253	25.1	19.4	29.2
125	18.1	11.2	16.8#

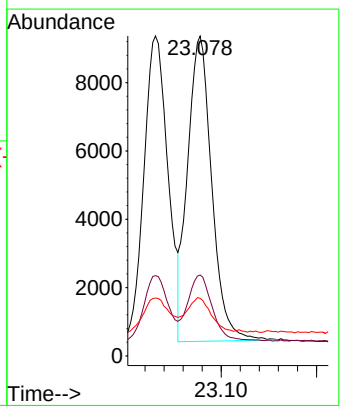


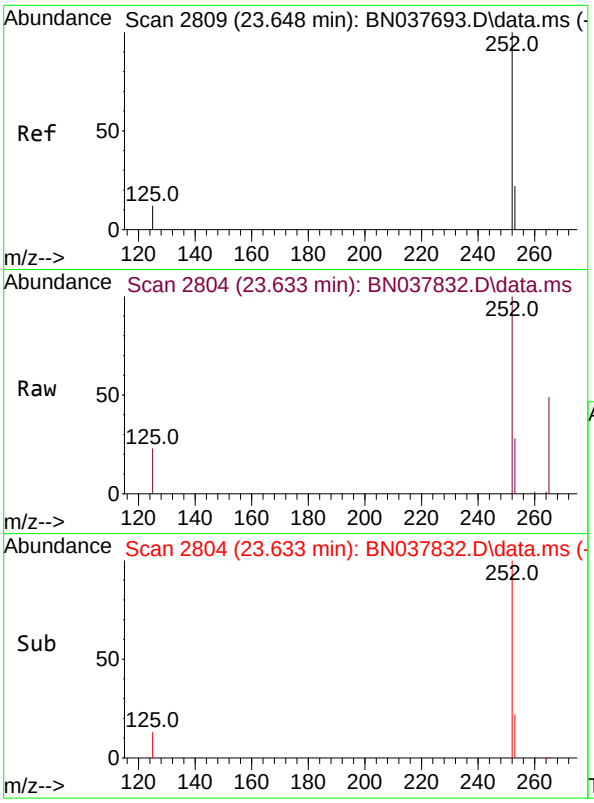


#38
Benzo(k)fluoranthene
Concen: 0.390 ng
RT: 23.078 min Scan# 2614
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:252 Resp: 15748

Ion	Ratio	Lower	Upper
252	100		
253	25.3	19.4	29.0
125	18.0	11.6	17.4#



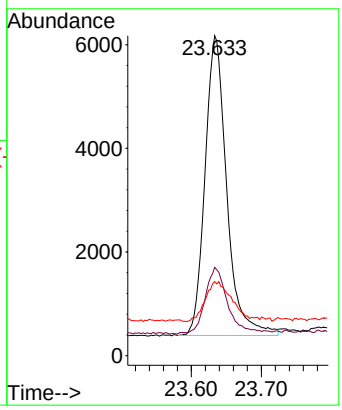


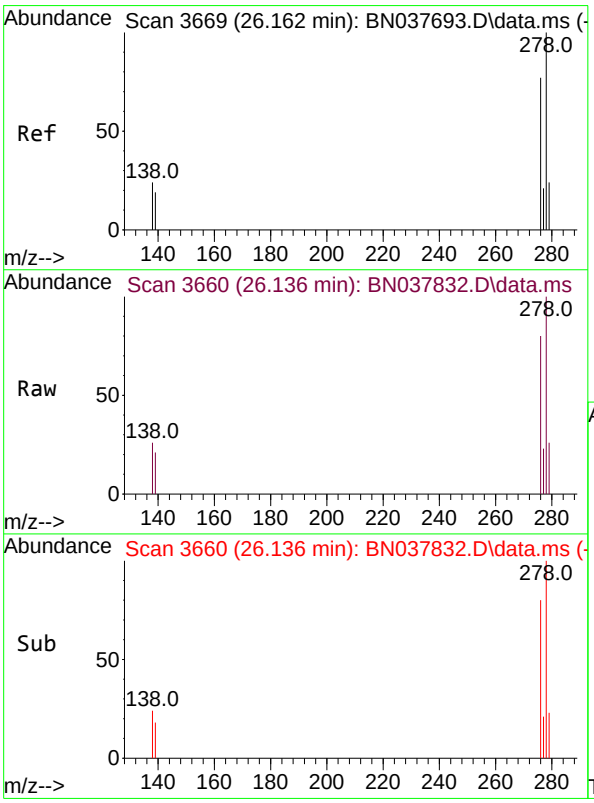
#39
Benzo(a)pyrene
Concen: 0.393 ng
RT: 23.633 min Scan# 28
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 12481

Ion	Ratio	Lower	Upper
252	100		
253	27.6	20.8	31.2
125	23.1	13.9	20.9#

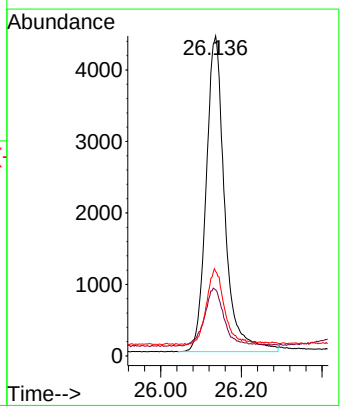


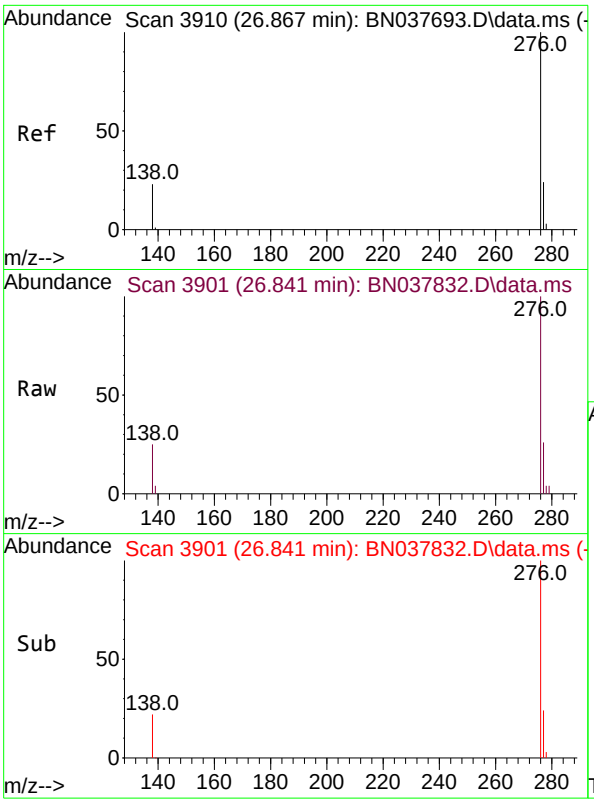


#40
Dibenzo(a,h)anthracene
Concen: 0.418 ng
RT: 26.136 min Scan# 3660
Delta R.T. -0.026 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:278 Resp: 14128

Ion	Ratio	Lower	Upper
278	100		
139	20.6	17.8	26.6
279	26.4	22.0	33.0



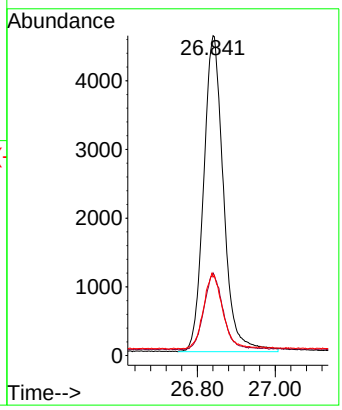


#41
Benzo(g,h,i)perylene
Concen: 0.429 ng
RT: 26.841 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 16240

Ion	Ratio	Lower	Upper
276	100		
277	25.8	20.6	31.0
138	24.5	20.2	30.2



Evaluate Continuing Calibration Report

Sample Results: **BN037832.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037832.D
Acq On : 20 Sep 2025 02:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	125	-0.01
2		1,4-Dioxane	0.417	0.400	4.1	118	0.00
3		n-Nitrosodimethylamine	0.544	0.478	12.1	106	0.00
4	S	2-Fluorophenol	0.918	0.870	5.2	122	0.00
5	S	Phenol-d6	1.191	1.110	6.8	120	0.00
6		bis(2-Chloroethyl)ether	1.064	1.034	2.8	121	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	125	-0.01
8	S	Nitrobenzene-d5	0.293	0.281	4.1	123	-0.01
9		Naphthalene	1.093	1.053	3.7	122	-0.01
10		Hexachlorobutadiene	0.198	0.186	6.1	118	-0.02
11	SURR	2-Methylnaphthalene-d10	0.530	0.469	11.5	117	-0.02
12		2-Methylnaphthalene	0.676	0.627	7.2	118	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	116	-0.01
14	S	2,4,6-Tribromophenol	0.104	0.112	-7.7	128	-0.01
15	S	2-Fluorobiphenyl	1.673	1.666	0.4	117	-0.01
16		Acenaphthylene	1.834	1.702	7.2	110	-0.01
17		Acenaphthene	1.240	1.160	6.5	110	-0.01
18		Fluorene	1.502	1.342	10.7	108	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	106	-0.01
20		4,6-Dinitro-2-methylphenol	0.037	0.025	32.4#	81	-0.01
21		4-Bromophenyl-phenylether	0.261	0.252	3.4	106	-0.01
22		Hexachlorobenzene	0.300	0.317	-5.7	114	-0.01
23		Atrazine	0.166	0.153	7.8	107	-0.01
24		Pentachlorophenol	0.087	0.097	-11.5	138	-0.01
25		Phenanthrene	1.259	1.208	4.1	104	-0.01
26		Anthracene	1.116	1.025	8.2	101	-0.01
27	SURR	Fluoranthene-d10	1.004	0.832	17.1	94	-0.01
28		Fluoranthene	1.381	1.204	12.8	97	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	104	-0.02
30		Pyrene	1.566	1.455	7.1	98	-0.01
31	S	Terphenyl-d14	0.812	0.693	14.7	90	-0.01
32		Benzo(a)anthracene	1.395	1.341	3.9	104	0.00
33		Chrysene	1.496	1.443	3.5	101	-0.02
34		Bis(2-ethylhexyl)phthalate	0.414	0.435	-5.1	121	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	112	-0.02
36		Indeno(1,2,3-cd)pyrene	1.681	1.792	-6.6	130	-0.02
37		Benzo(b)fluoranthene	1.575	1.573	0.1	114	-0.01
38		Benzo(k)fluoranthene	1.606	1.564	2.6	115	-0.01
39	C	Benzo(a)pyrene	1.261	1.240	1.7	116	-0.01
40		Dibenzo(a,h)anthracene	1.342	1.404	-4.6	130	-0.03
41		Benzo(g,h,i)perylene	1.506	1.613	-7.1	125	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Evaluate Continuing Calibration Report

Sample Results: **BN037832.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037832.D
Acq On : 20 Sep 2025 02:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	125	-0.01
2		1,4-Dioxane	0.400	0.384	4.0	118	0.00
3		n-Nitrosodimethylamine	0.400	0.351	12.3	106	0.00
4	S	2-Fluorophenol	0.400	0.379	5.3	122	0.00
5	S	Phenol-d6	0.400	0.373	6.8	120	0.00
6		bis(2-Chloroethyl)ether	0.400	0.389	2.8	121	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	125	-0.01
8	S	Nitrobenzene-d5	0.400	0.385	3.8	123	-0.01
9		Naphthalene	0.400	0.385	3.8	122	-0.01
10		Hexachlorobutadiene	0.400	0.377	5.8	118	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.354	11.5	117	-0.02
12		2-Methylnaphthalene	0.400	0.371	7.3	118	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	116	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.428	-7.0	128	-0.01
15	S	2-Fluorobiphenyl	0.400	0.398	0.5	117	-0.01
16		Acenaphthylene	0.400	0.371	7.3	110	-0.01
17		Acenaphthene	0.400	0.374	6.5	110	-0.01
18		Fluorene	0.400	0.357	10.8	108	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	106	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.272	32.0#	81	-0.01
21		4-Bromophenyl-phenylether	0.400	0.386	3.5	106	-0.01
22		Hexachlorobenzene	0.400	0.423	-5.7	114	-0.01
23		Atrazine	0.400	0.369	7.8	107	-0.01
24		Pentachlorophenol	0.400	0.447	-11.7	138	-0.01
25		Phenanthrene	0.400	0.384	4.0	104	-0.01
26		Anthracene	0.400	0.368	8.0	101	-0.01
27	SURR	Fluoranthene-d10	0.400	0.331	17.3	94	-0.01
28		Fluoranthene	0.400	0.349	12.8	97	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	104	-0.02
30		Pyrene	0.400	0.372	7.0	98	-0.01
31	S	Terphenyl-d14	0.400	0.342	14.5	90	-0.01
32		Benzo(a)anthracene	0.400	0.384	4.0	104	0.00
33		Chrysene	0.400	0.386	3.5	101	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.420	-5.0	121	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	112	-0.02
36		Indeno(1,2,3-cd)pyrene	0.400	0.426	-6.5	130	-0.02
37		Benzo(b)fluoranthene	0.400	0.399	0.3	114	-0.01
38		Benzo(k)fluoranthene	0.400	0.390	2.5	115	-0.01
39	C	Benzo(a)pyrene	0.400	0.393	1.8	116	-0.01
40		Dibenzo(a,h)anthracene	0.400	0.418	-4.5	130	-0.03
41		Benzo(g,h,i)perylene	0.400	0.429	-7.2	125	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15		
Lab Code:	ACE	SDG No.:	Q3097		
Instrument ID:	BNA_N	Calibration Date/Time:	09/20/2025	11:39	
Lab File ID:	BN037847.D	Init. Calib. Date(s):	09/11/2025	09/11/2025	
EPA Sample No.:	SSTDCCC0.4EC	Init. Calib. Time(s):	09:56	13:33	

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.470		-11.3	50.0
Fluoranthene-d10	1.004	0.915		-8.9	50.0
2-Fluorophenol	0.918	0.876		-4.6	50.0
Phenol-d6	1.191	1.109		-6.9	50.0
Nitrobenzene-d5	0.293	0.288		-1.7	50.0
2-Fluorobiphenyl	1.673	1.607		-3.9	50.0
2,4,6-Tribromophenol	0.104	0.123		18.3	50.0
Terphenyl-d14	0.812	0.706		-13.1	50.0
1,4-Dioxane	0.417	0.423		1.4	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037847.D
Acq On : 20 Sep 2025 11:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 22 00:38:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

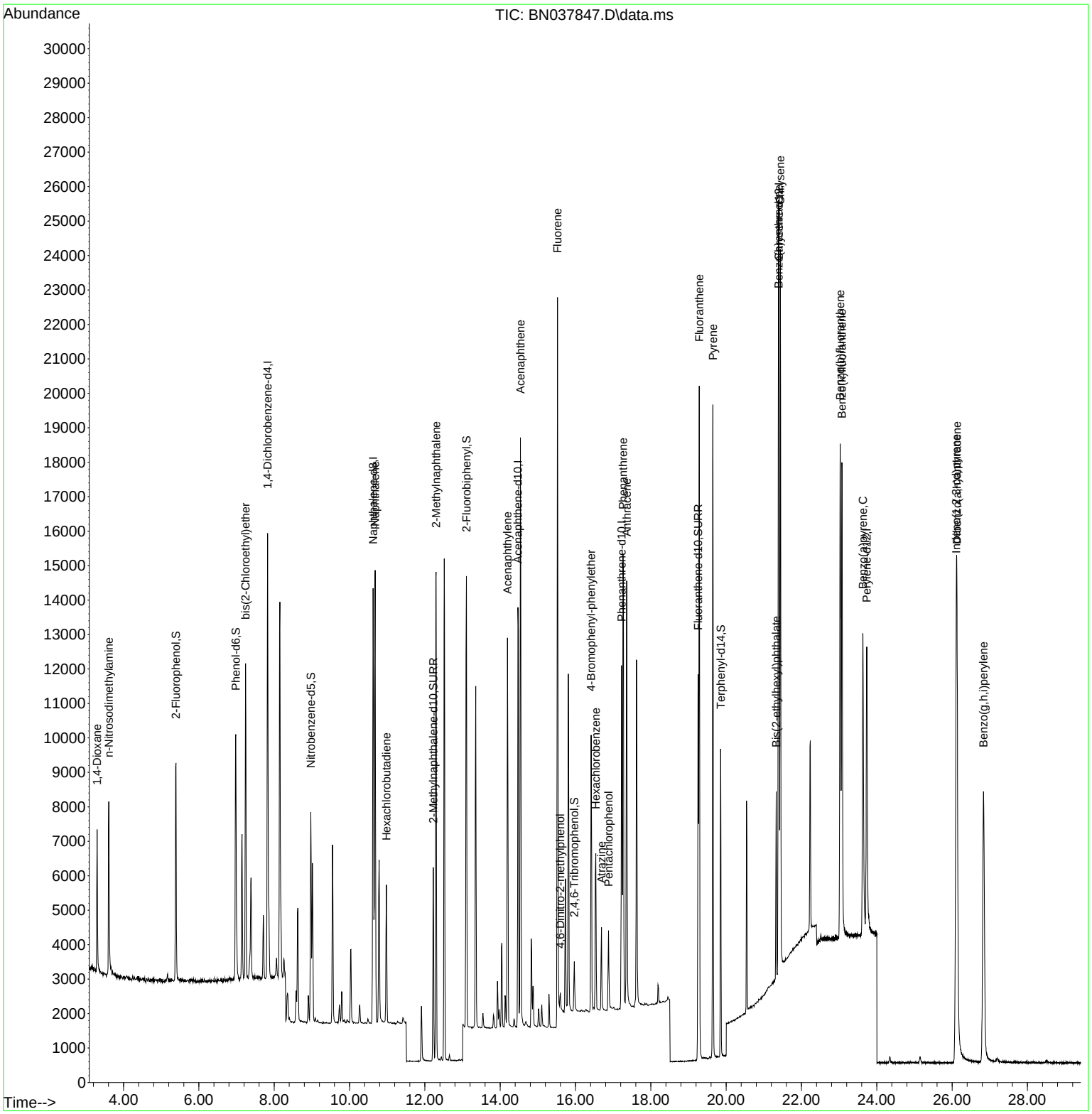
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.825	152	6137	0.400	ng		-0.01
7) Naphthalene-d8	10.626	136	16197	0.400	ng		-0.02
13) Acenaphthene-d10	14.473	164	7238	0.400	ng		-0.02
19) Phenanthrene-d10	17.223	188	13073	0.400	ng		-0.01
29) Chrysene-d12	21.402	240	12006	0.400	ng		#-0.02
35) Perylene-d12	23.736	264	11862	0.400	ng		#-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	5.392	112	5373	0.381	ng		0.00
5) Phenol-d6	6.980	99	6805	0.373	ng		0.00
8) Nitrobenzene-d5	8.971	82	4665	0.394	ng		-0.02
11) 2-Methylnaphthalene-d10	12.222	152	7614	0.355	ng		-0.02
14) 2,4,6-Tribromophenol	15.969	330	891	0.472	ng		-0.01
15) 2-Fluorobiphenyl	13.105	172	11631	0.384	ng		-0.01
27) Fluoranthene-d10	19.257	212	11964	0.365	ng		-0.01
31) Terphenyl-d14	19.856	244	8481	0.348	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	2596	0.406	ng		95
3) n-Nitrosodimethylamine	3.608	42	3185	0.381	ng		92
6) bis(2-Chloroethyl)ether	7.240	93	6315	0.387	ng		99
9) Naphthalene	10.680	128	17021	0.384	ng		99
10) Hexachlorobutadiene	10.979	225	3043	0.380	ng	#	100
12) 2-Methylnaphthalene	12.298	142	10117	0.369	ng		99
16) Acenaphthylene	14.195	152	12119	0.365	ng		100
17) Acenaphthene	14.537	154	8461	0.377	ng		97
18) Fluorene	15.522	166	9893	0.364	ng		98
20) 4,6-Dinitro-2-methylph...	15.597	198	396	0.327	ng		87
21) 4-Bromophenyl-phenylether	16.416	248	3095	0.363	ng	#	74
22) Hexachlorobenzene	16.540	284	3993	0.407	ng		98
23) Atrazine	16.689	200	1936	0.357	ng		100
24) Pentachlorophenol	16.875	266	1204	0.423	ng		98
25) Phenanthrene	17.260	178	15813	0.384	ng		99
26) Anthracene	17.359	178	13675	0.375	ng		100
28) Fluoranthene	19.285	202	17285	0.383	ng		100
30) Pyrene	19.647	202	17226	0.367	ng		100
32) Benzo(a)anthracene	21.393	228	15817	0.378	ng		99
33) Chrysene	21.438	228	17106	0.381	ng		97
34) Bis(2-ethylhexyl)phtha...	21.331	149	4990	0.402	ng		99
36) Indeno(1,2,3-cd)pyrene	26.110	276	20571	0.413	ng		100
37) Benzo(b)fluoranthene	23.028	252	18556	0.397	ng		97
38) Benzo(k)fluoranthene	23.075	252	19102	0.401	ng		97
39) Benzo(a)pyrene	23.630	252	14379	0.384	ng	#	96
40) Dibenzo(a,h)anthracene	26.127	278	15603	0.392	ng		98
41) Benzo(g,h,i)perylene	26.835	276	17395	0.390	ng		99

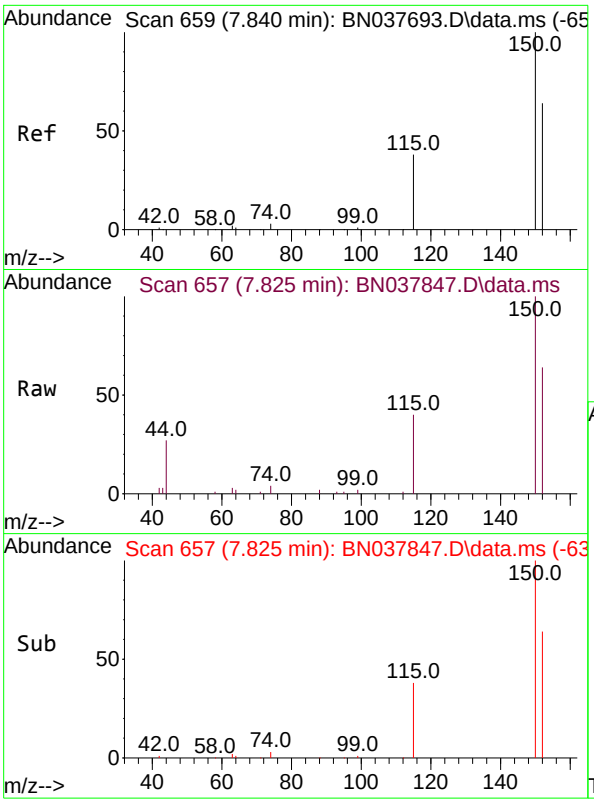
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037847.D
Acq On : 20 Sep 2025 11:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 22 00:38:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



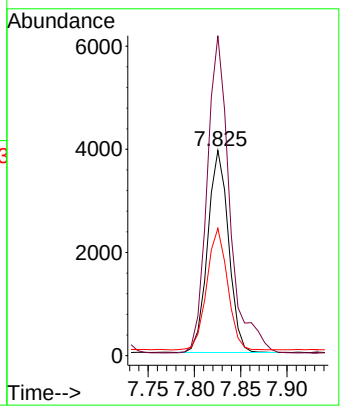


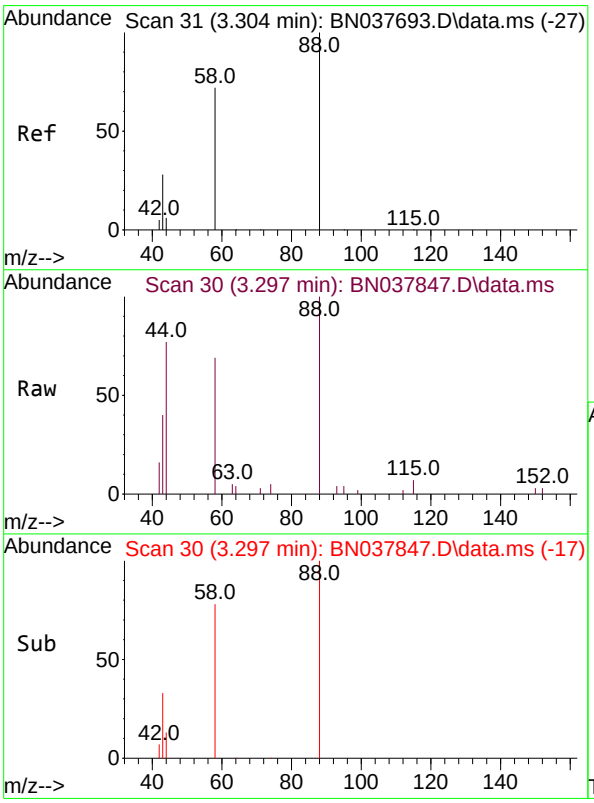
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 6137

Ion	Ratio	Lower	Upper
152	100		
150	155.9	124.5	186.7
115	62.0	49.2	73.8

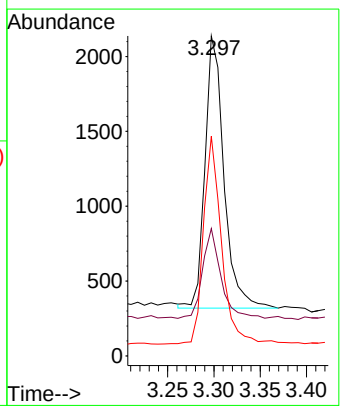


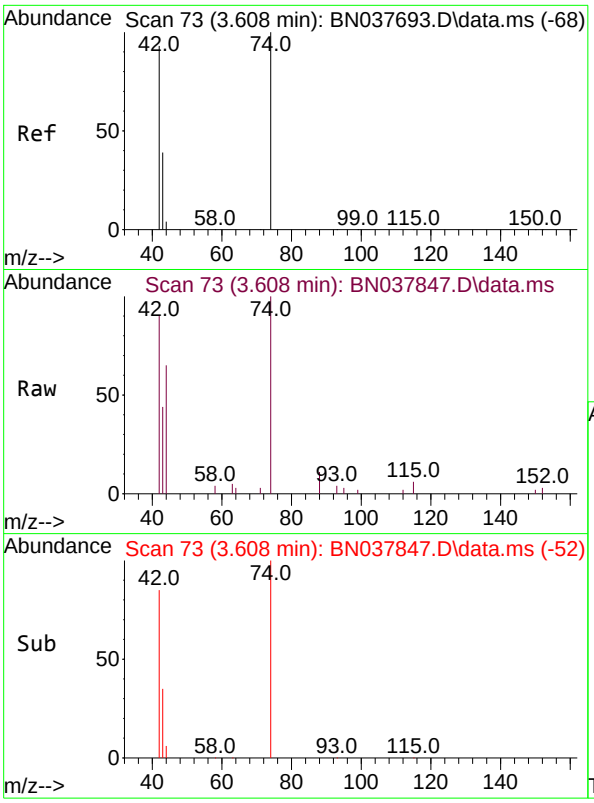


#2
1,4-Dioxane
Concen: 0.406 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion: 88 Resp: 2596

Ion	Ratio	Lower	Upper
88	100		
43	31.8	26.8	40.2
58	72.9	61.9	92.9



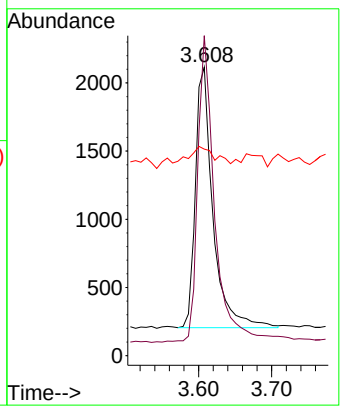


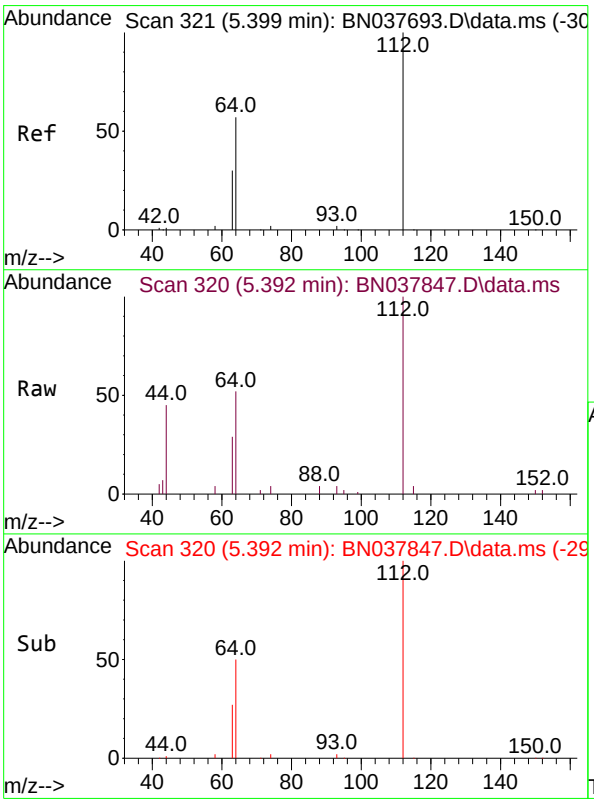
#3
n-Nitrosodimethylamine
Concen: 0.381 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 3185

Ion	Ratio	Lower	Upper
42	100		
74	116.1	86.0	129.0
44	8.6	8.4	12.6

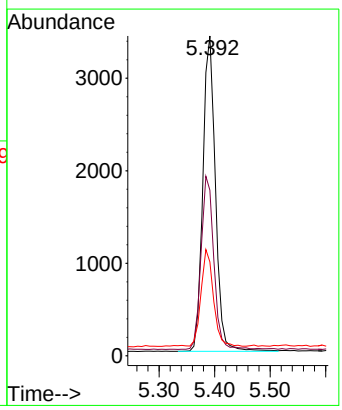


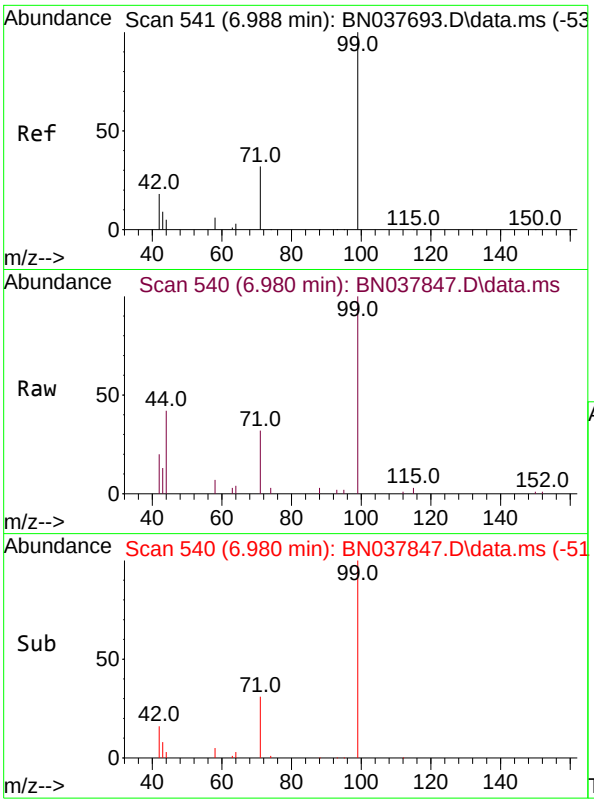


#4
2-Fluorophenol
Concen: 0.381 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:112 Resp: 5373

Ion	Ratio	Lower	Upper
112	100		
64	55.7	44.9	67.3
63	29.9	24.7	37.1



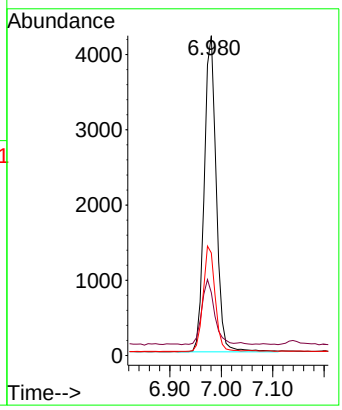


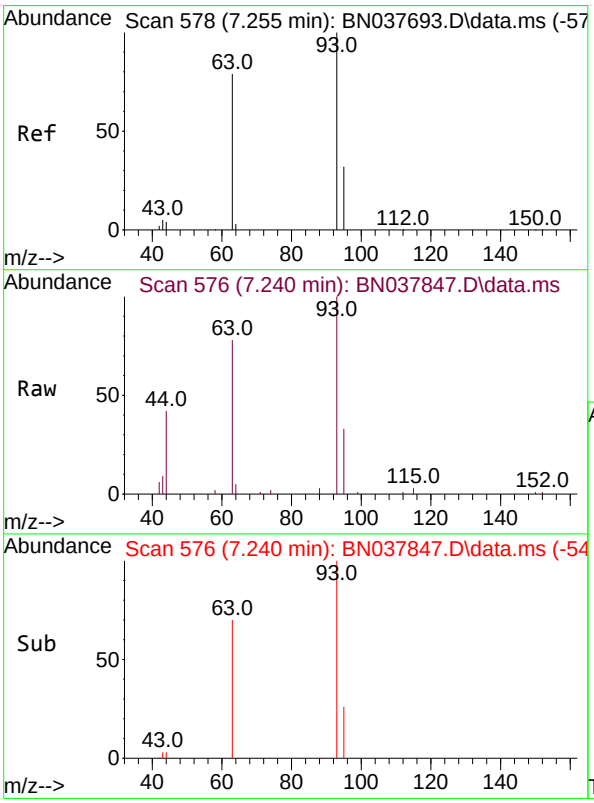
#5
Phenol-d6
Concen: 0.373 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 6805

Ion	Ratio	Lower	Upper
99	100		
42	21.6	16.6	24.8
71	33.1	26.7	40.1

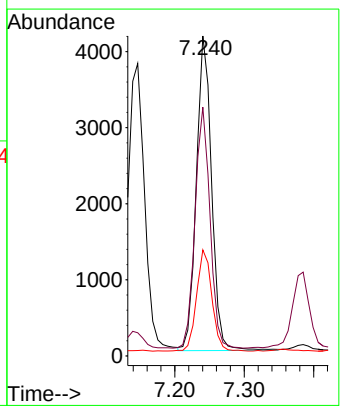


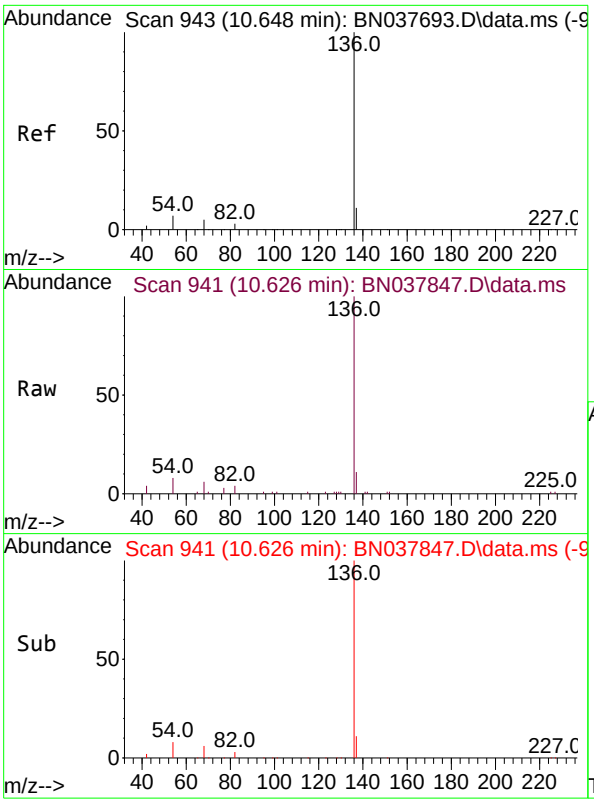


#6
bis(2-Chloroethyl)ether
Concen: 0.387 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.015 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion: 93 Resp: 6315

Ion	Ratio	Lower	Upper
93	100		
63	75.2	60.6	90.8
95	32.2	26.0	39.0



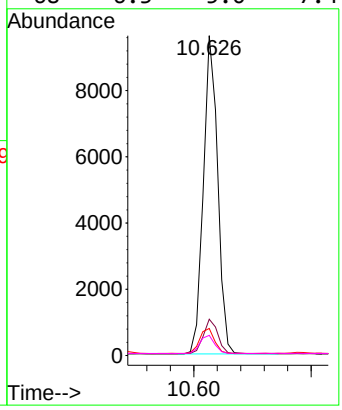


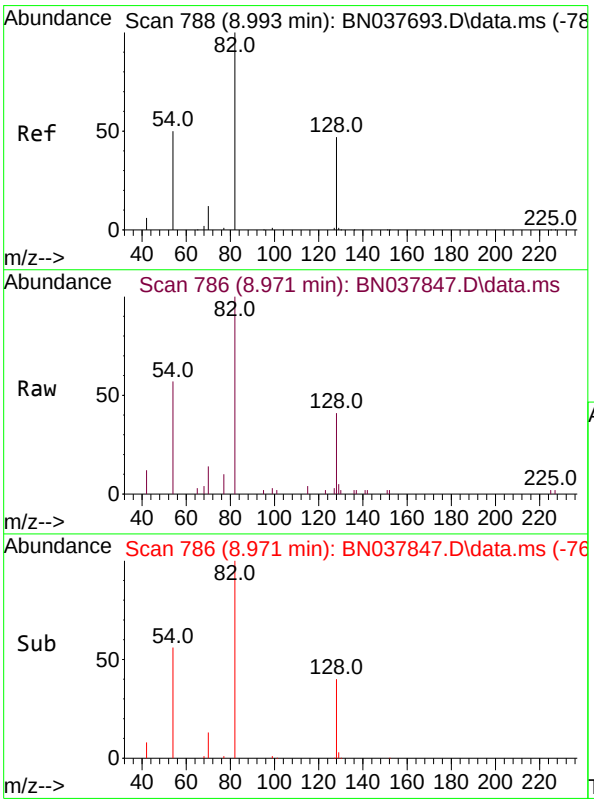
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 16197

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	8.5	6.3	9.5
68	6.3	5.0	7.4

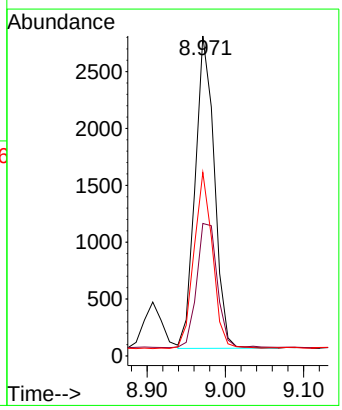


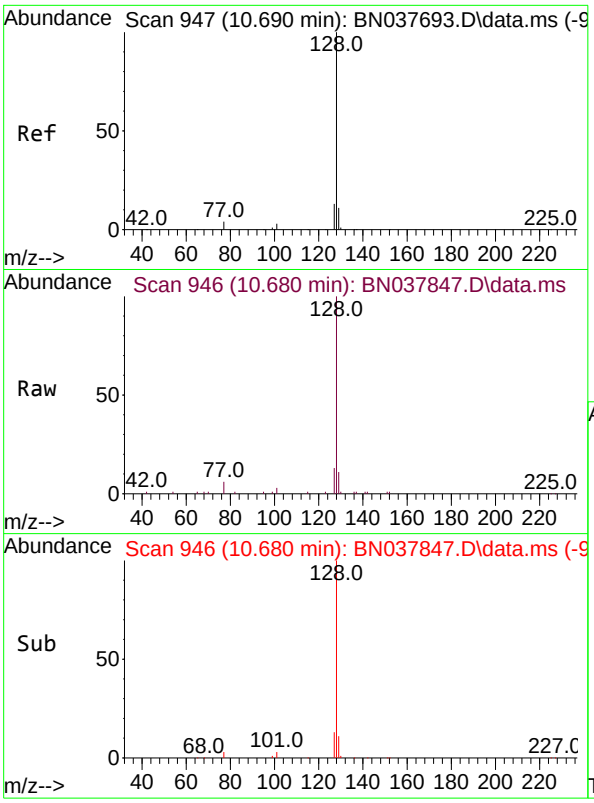


#8
Nitrobenzene-d5
Concen: 0.394 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.021 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion: 82 Resp: 4665

Ion	Ratio	Lower	Upper
82	100		
128	41.4	38.3	57.5
54	57.4	41.4	62.2



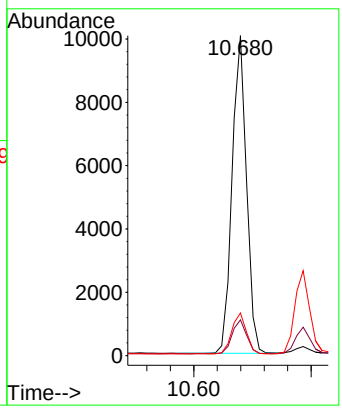


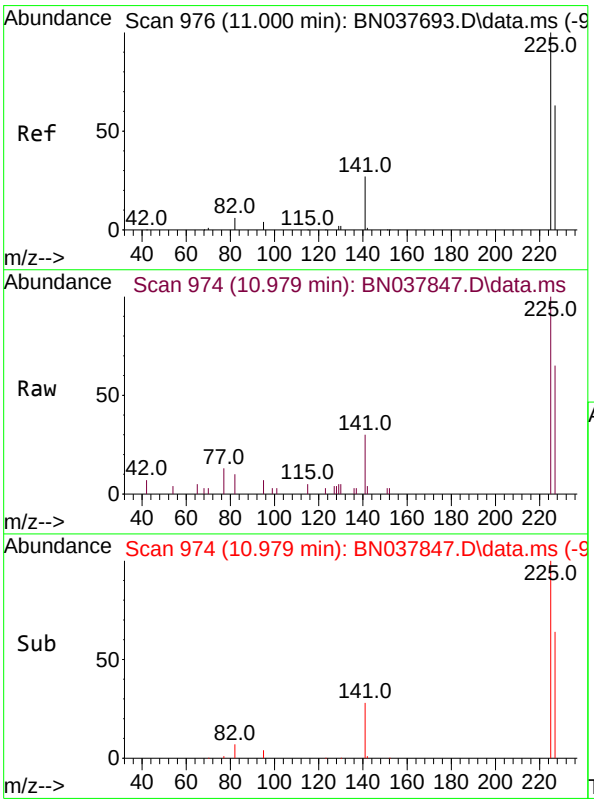
#9
Naphthalene
Concen: 0.384 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 17021

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.1	13.7
127	13.3	10.9	16.3

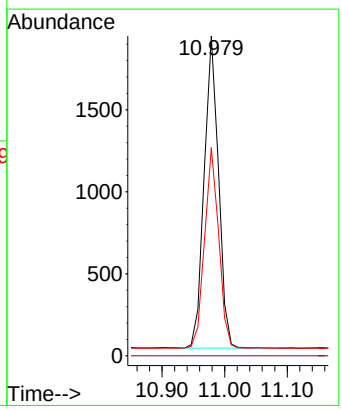


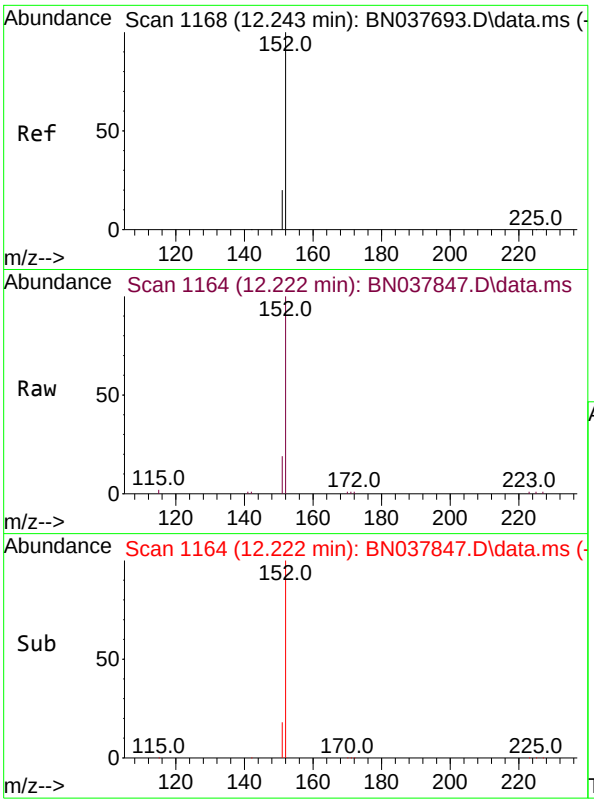


#10
Hexachlorobutadiene
Concen: 0.380 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:225 Resp: 3043

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	50.9	76.3



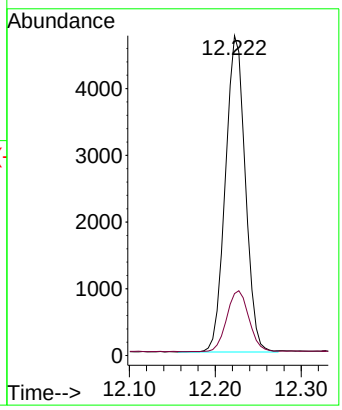


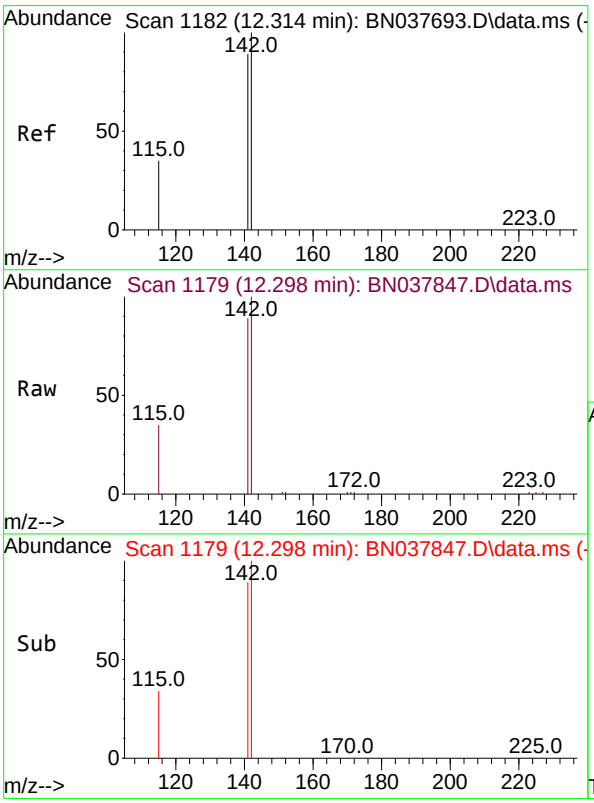
#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 12.222 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 7614

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.0	25.6

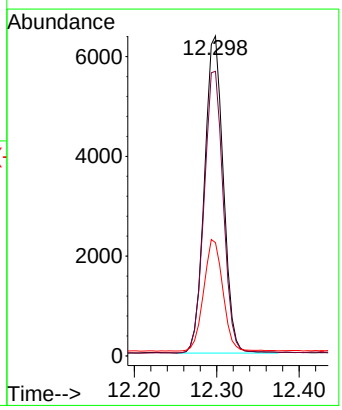


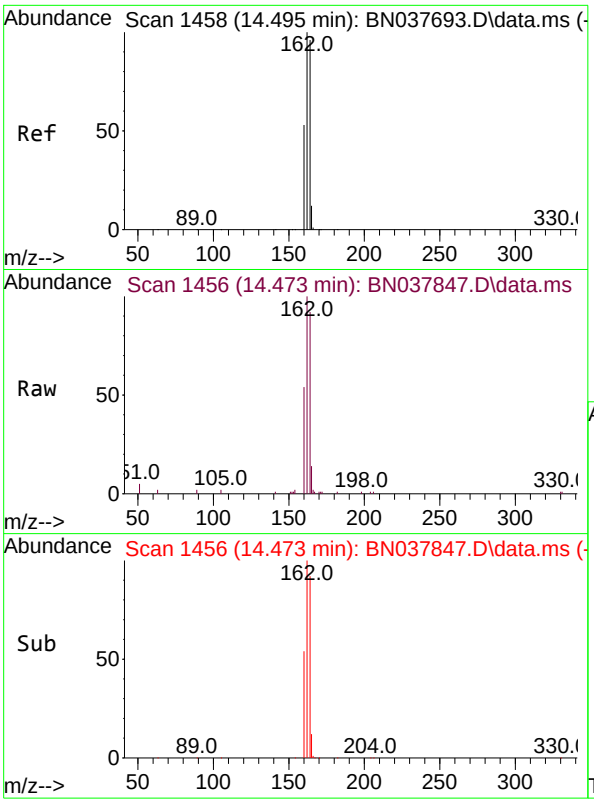


#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 12.298 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:142 Resp: 10117

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.6	107.4
115	35.4	28.6	43.0



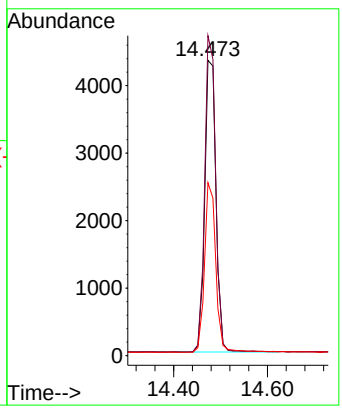


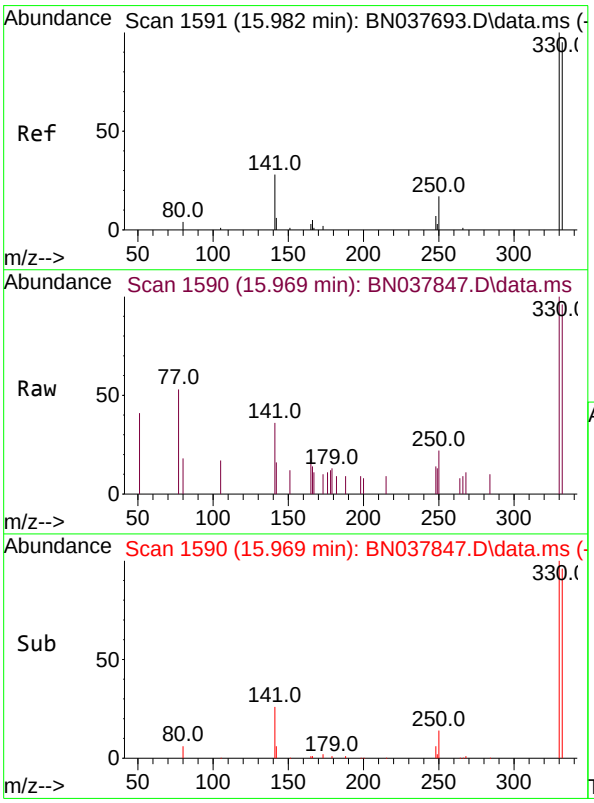
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 7238

Ion	Ratio	Lower	Upper
164	100		
162	108.4	83.1	124.7
160	58.5	44.3	66.5

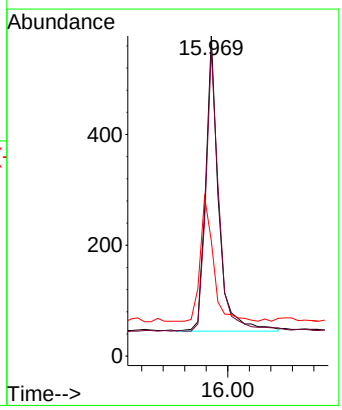


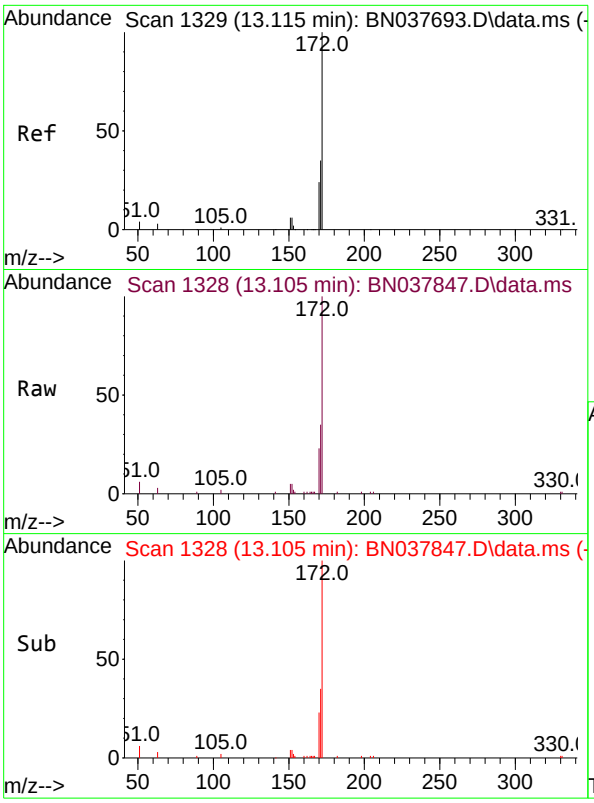


#14
2,4,6-Tribromophenol
Concen: 0.472 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:330 Resp: 891

Ion	Ratio	Lower	Upper
330	100		
332	96.3	75.3	112.9
141	42.8	35.0	52.4



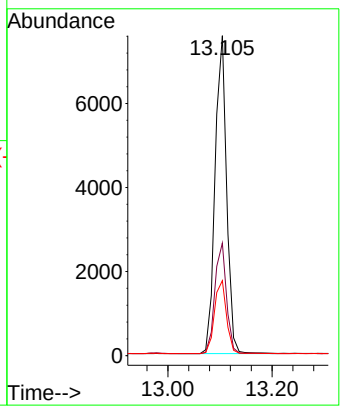


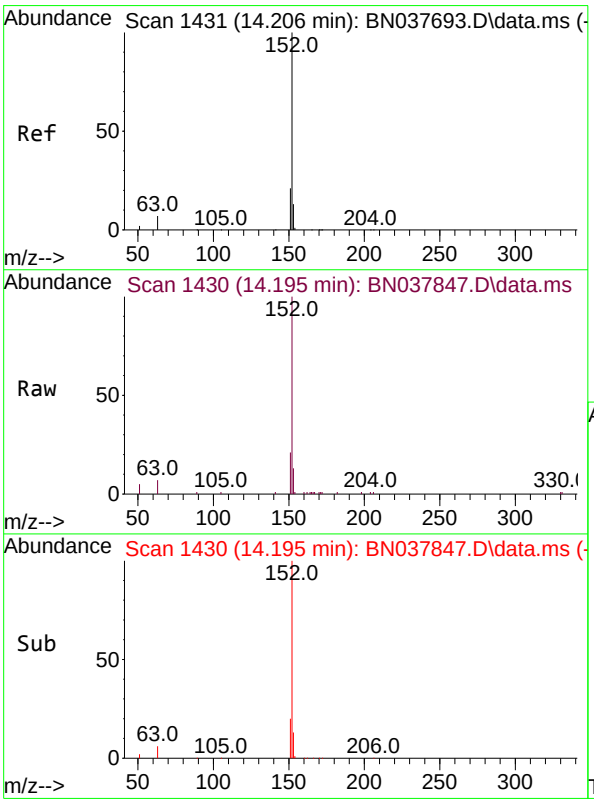
#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 11631

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	43.0
170	23.5	19.8	29.8

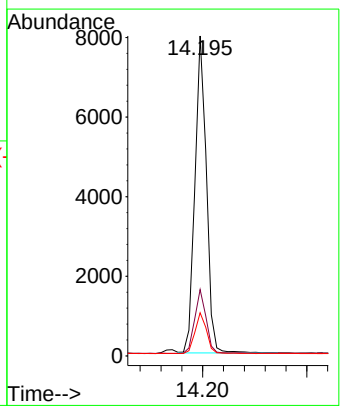


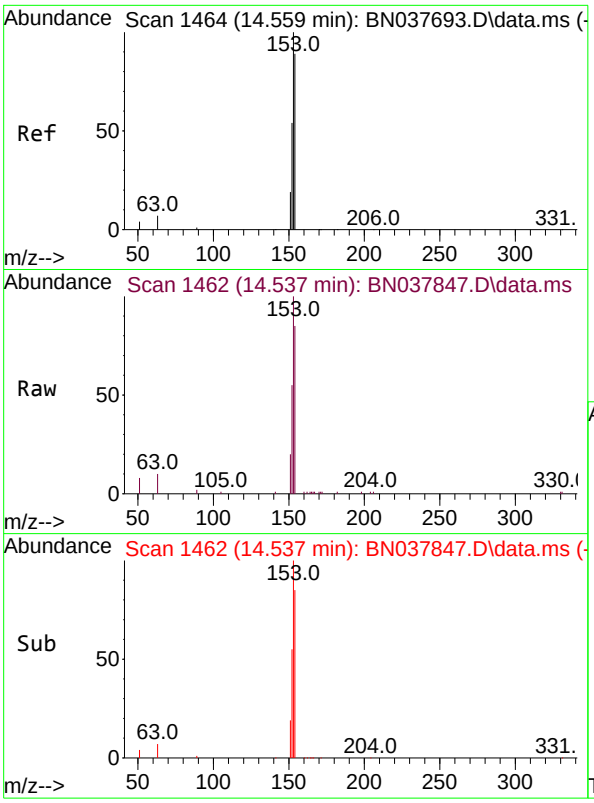


#16
Acenaphthylene
Concen: 0.365 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:152 Resp: 12119

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	12.9	10.4	15.6



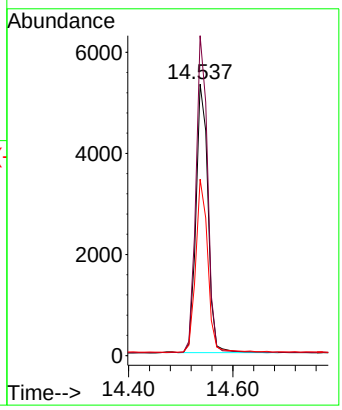


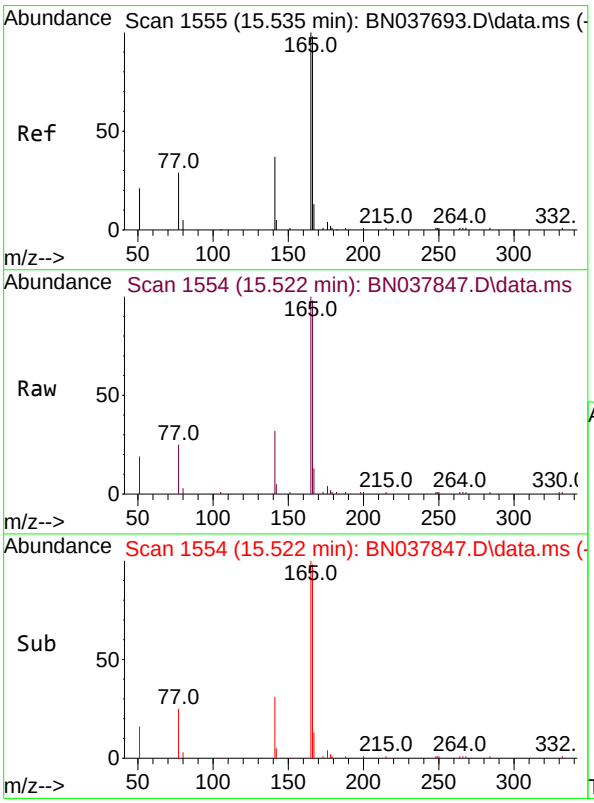
#17
Acenaphthene
Concen: 0.377 ng
RT: 14.537 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 8461

Ion	Ratio	Lower	Upper
154	100		
153	115.3	89.8	134.8
152	65.0	50.2	75.2

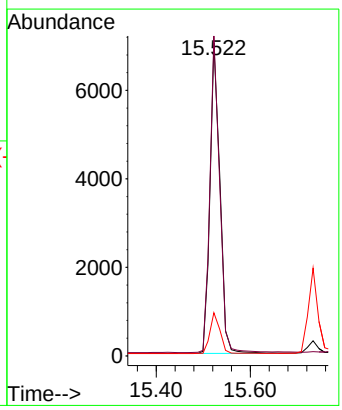


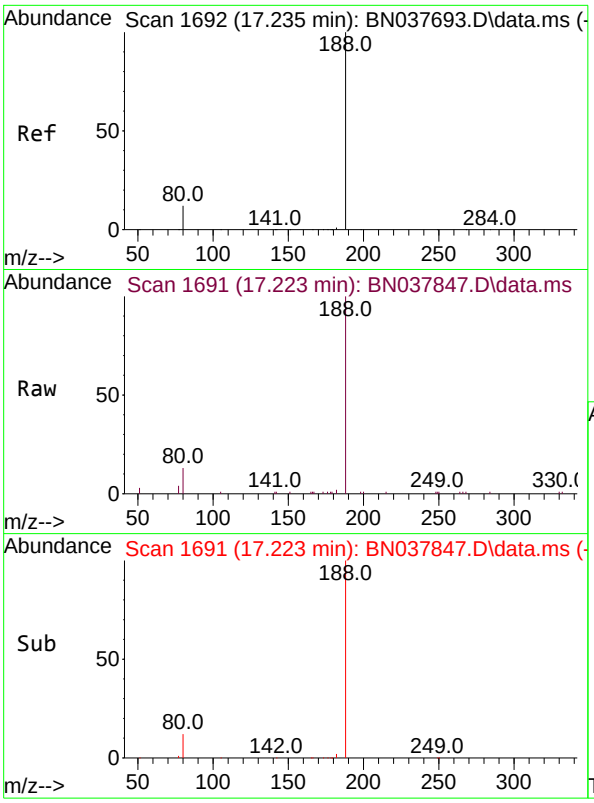


#18
Fluorene
Concen: 0.364 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:166 Resp: 9893

Ion	Ratio	Lower	Upper
166	100		
165	101.3	79.6	119.4
167	13.8	10.6	16.0



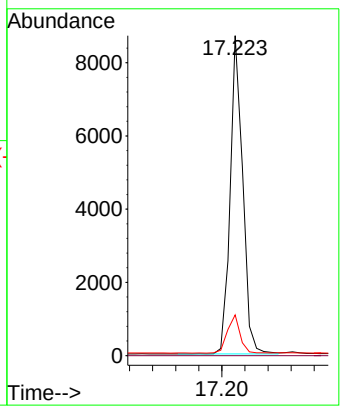


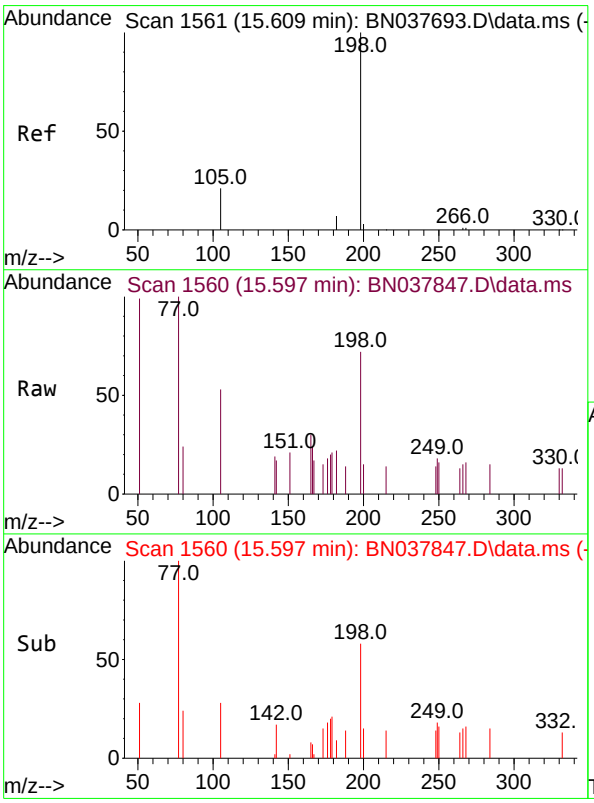
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 13073

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.7	10.6	15.8

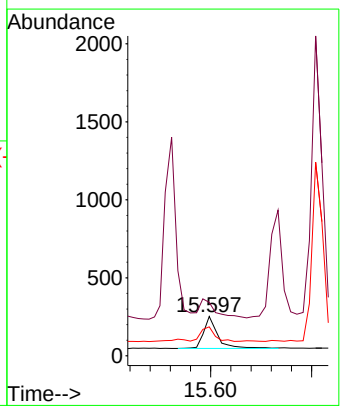


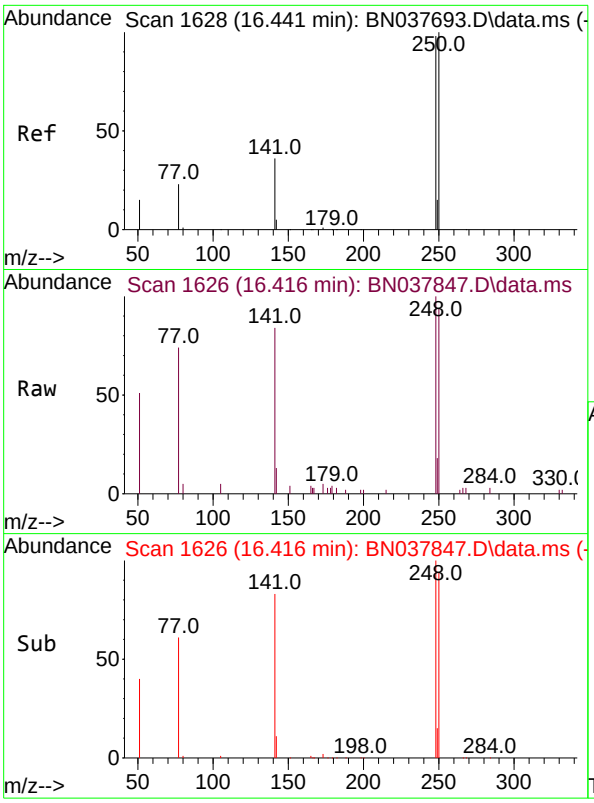


#20
4,6-Dinitro-2-methylphenol
Concen: 0.327 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:198 Resp: 396

Ion	Ratio	Lower	Upper
198	100		
51	136.1	95.1	142.7
105	73.8	53.8	80.6



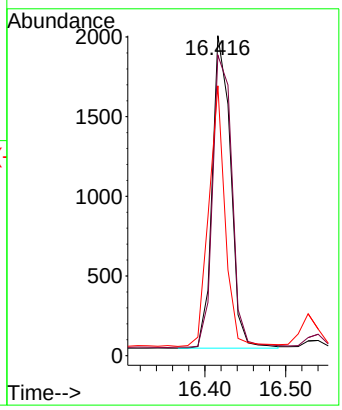


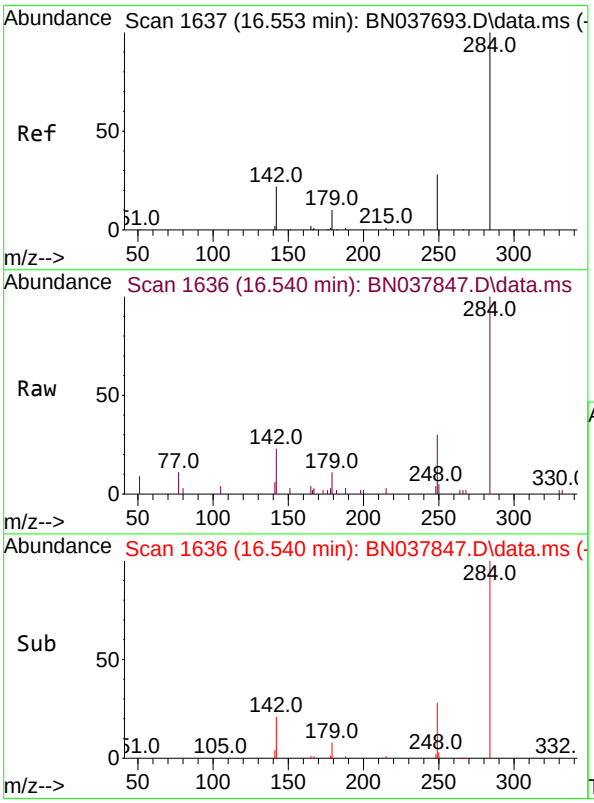
#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.416 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 3095

Ion	Ratio	Lower	Upper
248	100		
250	93.9	81.5	122.3
141	84.3	30.8	46.2#

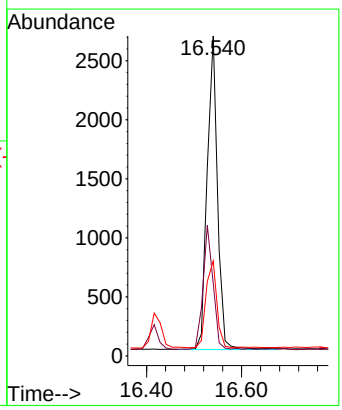


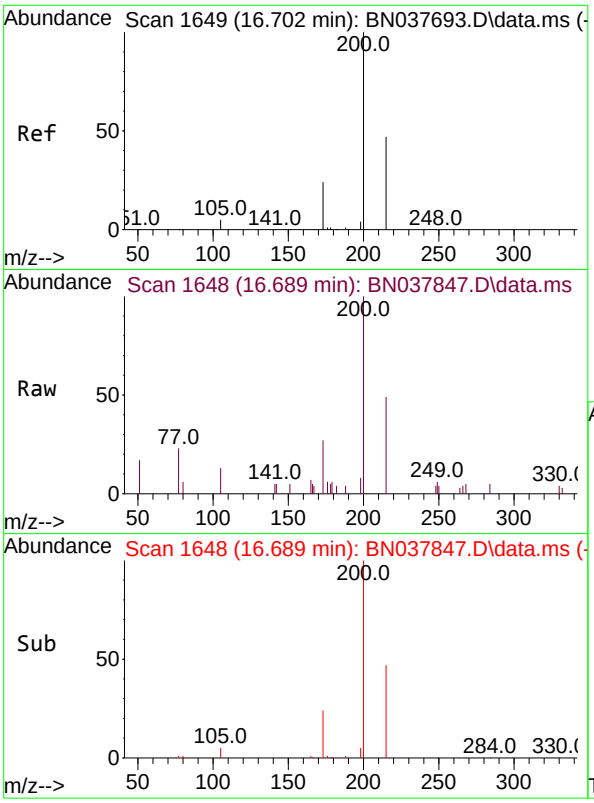


#22
Hexachlorobenzene
Concen: 0.407 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:284 Resp: 3993

Ion	Ratio	Lower	Upper
284	100		
142	38.4	30.9	46.3
249	28.9	24.8	37.2



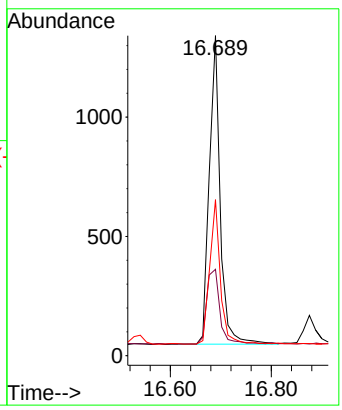


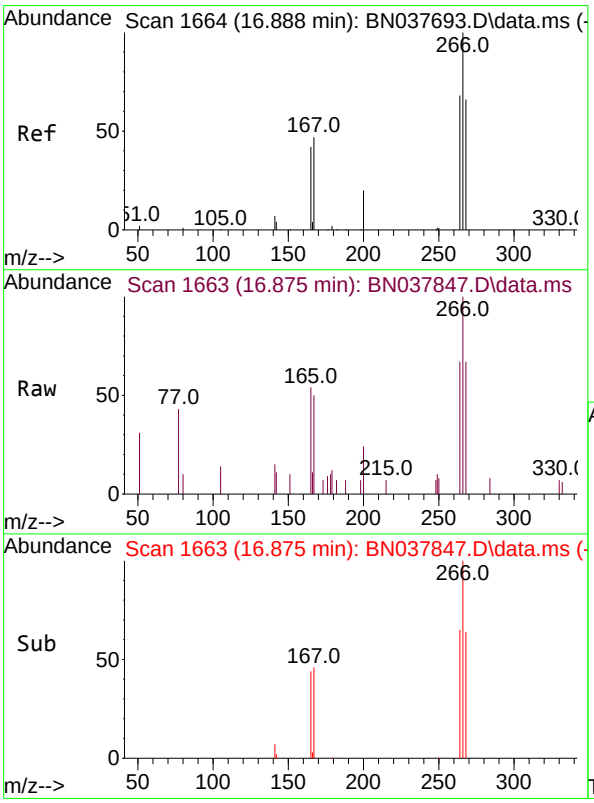
#23
Atrazine
Concen: 0.357 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1936

Ion	Ratio	Lower	Upper
200	100		
173	27.0	21.4	32.2
215	48.7	39.2	58.8

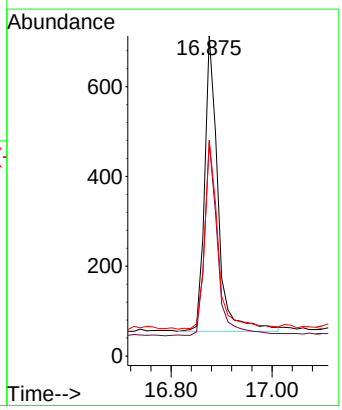


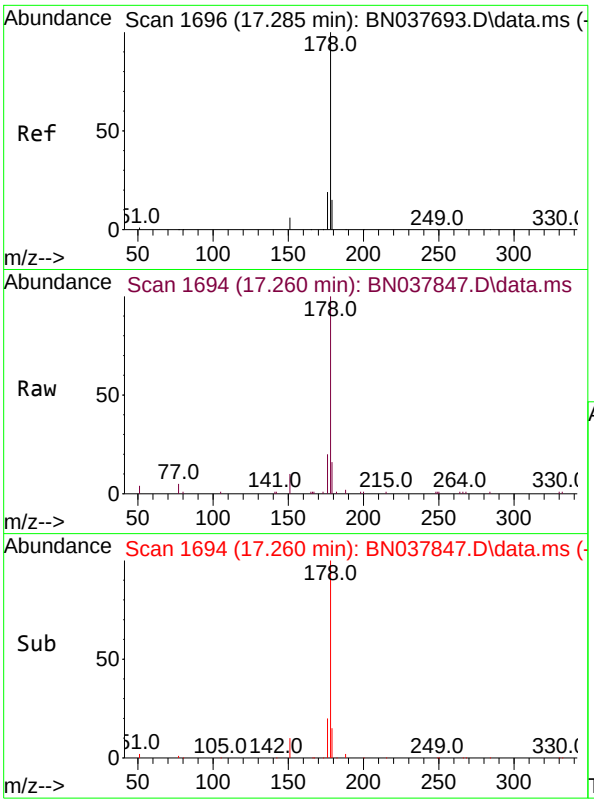


#24
Pentachlorophenol
Concen: 0.423 ng
RT: 16.875 min Scan# 1663
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:266 Resp: 1204

Ion	Ratio	Lower	Upper
266	100		
264	65.0	51.6	77.4
268	63.9	53.2	79.8



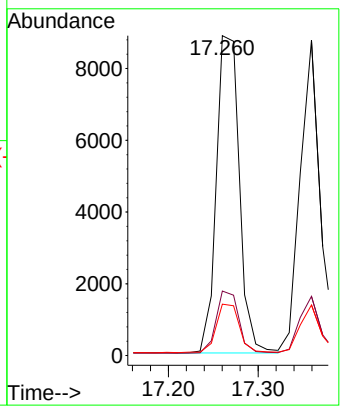


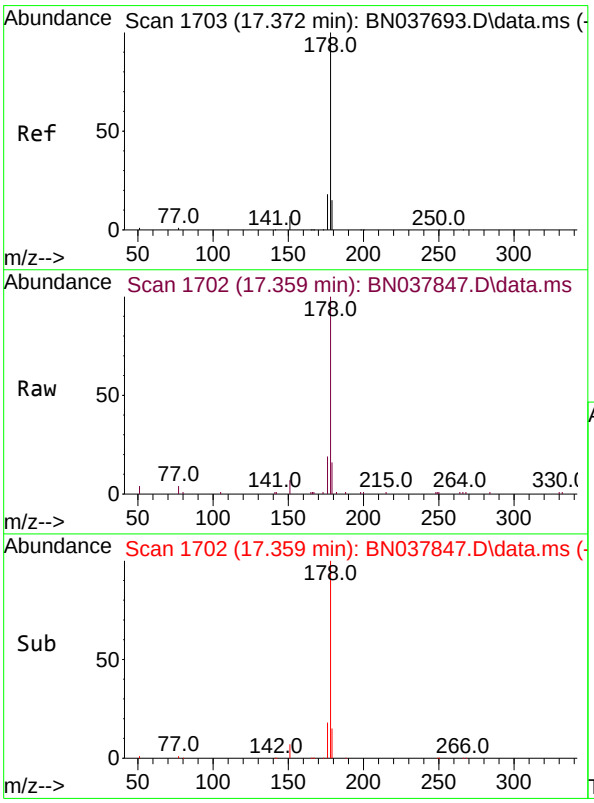
#25
Phenanthrene
Concen: 0.384 ng
RT: 17.260 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 15813

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.7	12.2	18.2

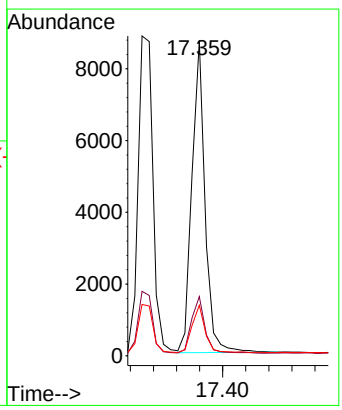


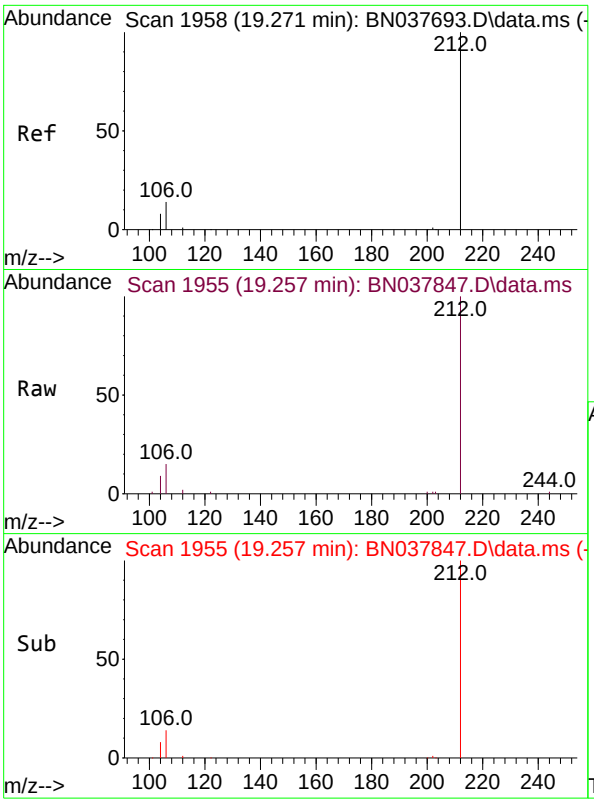


#26
Anthracene
Concen: 0.375 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:178 Resp: 13675

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.5	12.2	18.4



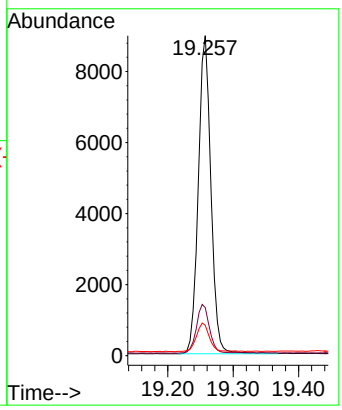


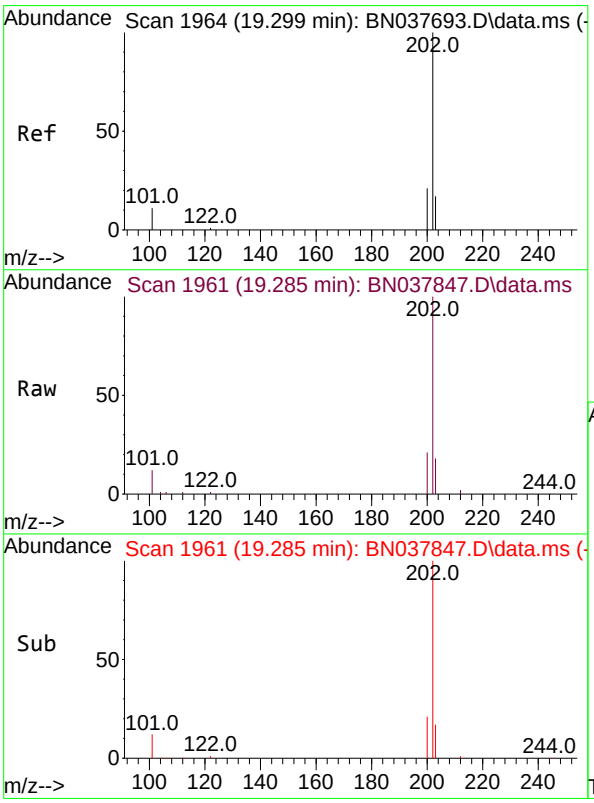
#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 19.257 min Scan# 19
Delta R.T. -0.014 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 11964

Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.2	18.2
104	9.3	6.9	10.3

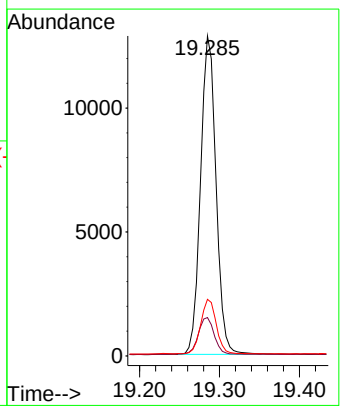


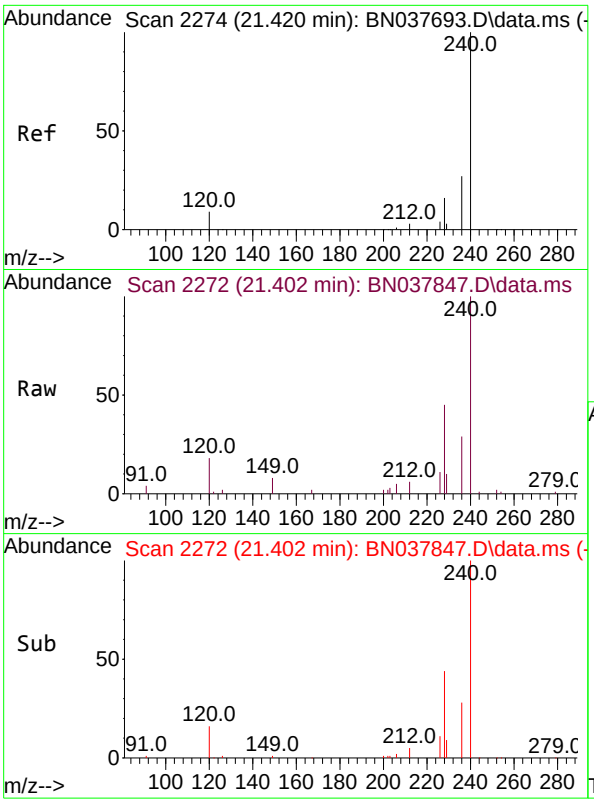


#28
Fluoranthene
Concen: 0.383 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.014 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:202 Resp: 17285

Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.3	13.9
203	17.1	13.7	20.5



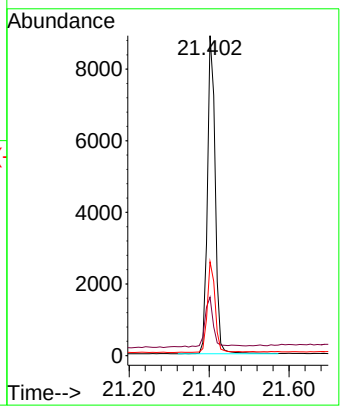


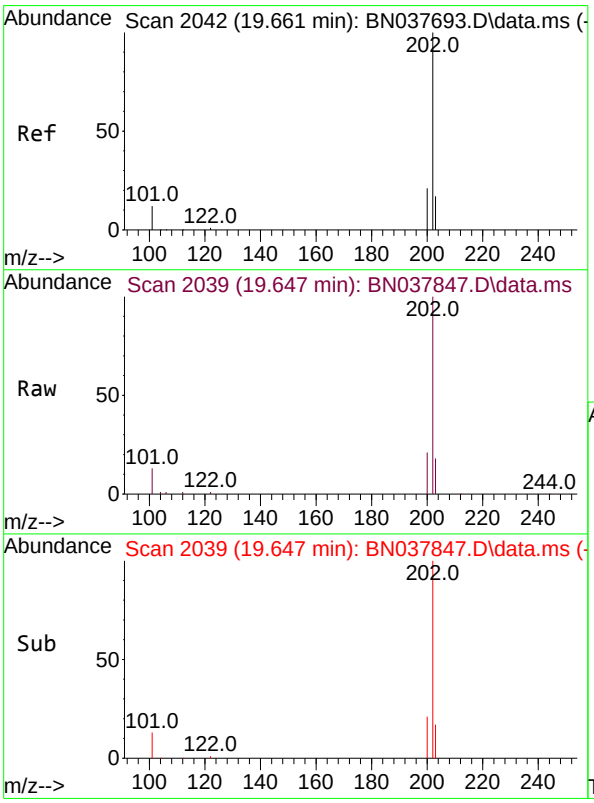
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 12006

Ion	Ratio	Lower	Upper
240	100		
120	18.3	9.2	13.8#
236	29.3	22.6	33.8

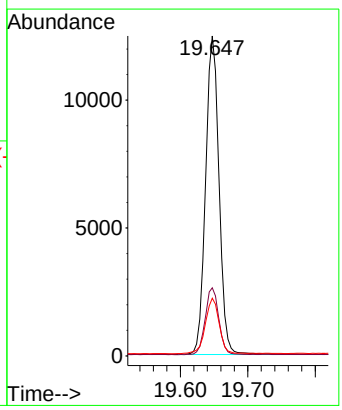


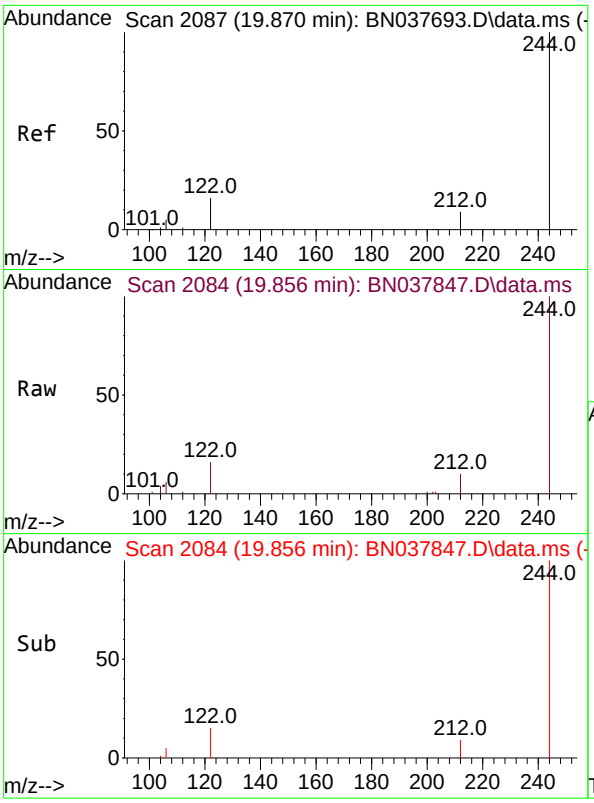


#30
Pyrene
Concen: 0.367 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.014 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:202 Resp: 17226

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.9	14.3	21.5



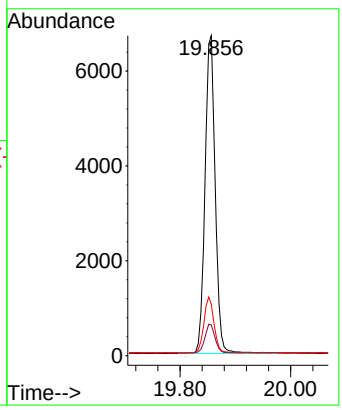


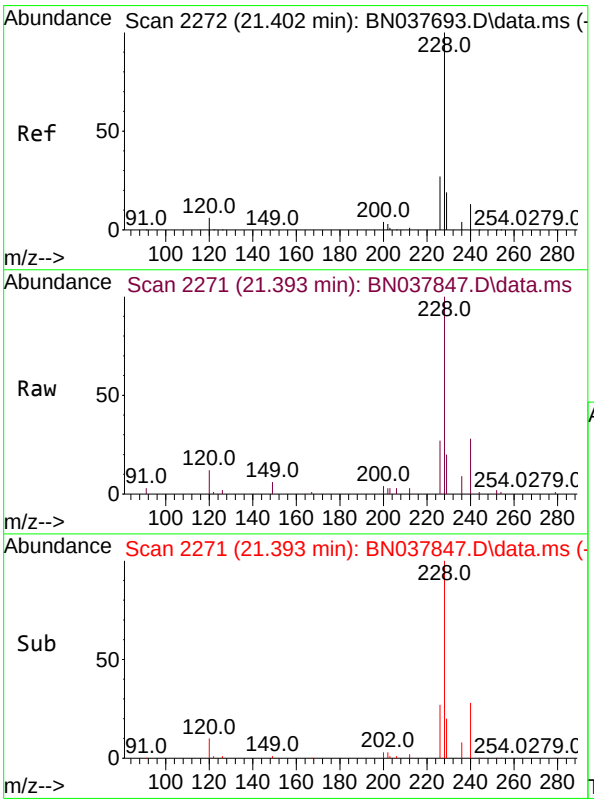
#31
Terphenyl-d14
Concen: 0.348 ng
RT: 19.856 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 8481

Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.5	11.3
122	16.0	13.2	19.8

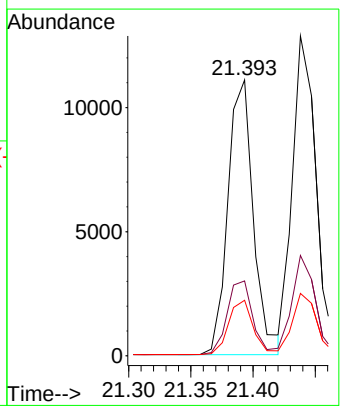


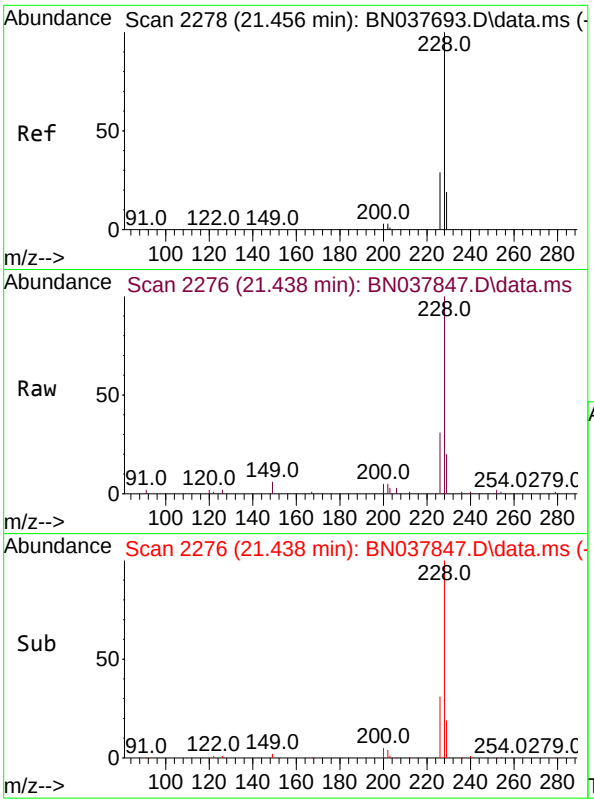


#32
Benzo(a)anthracene
Concen: 0.378 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:228 Resp: 15817

Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.2	33.2
229	20.1	15.8	23.6



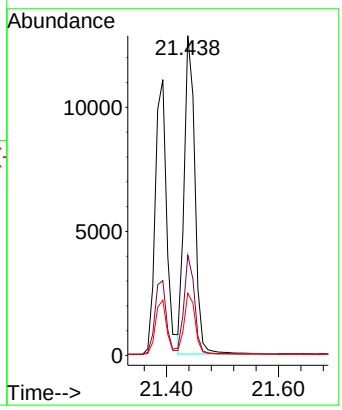


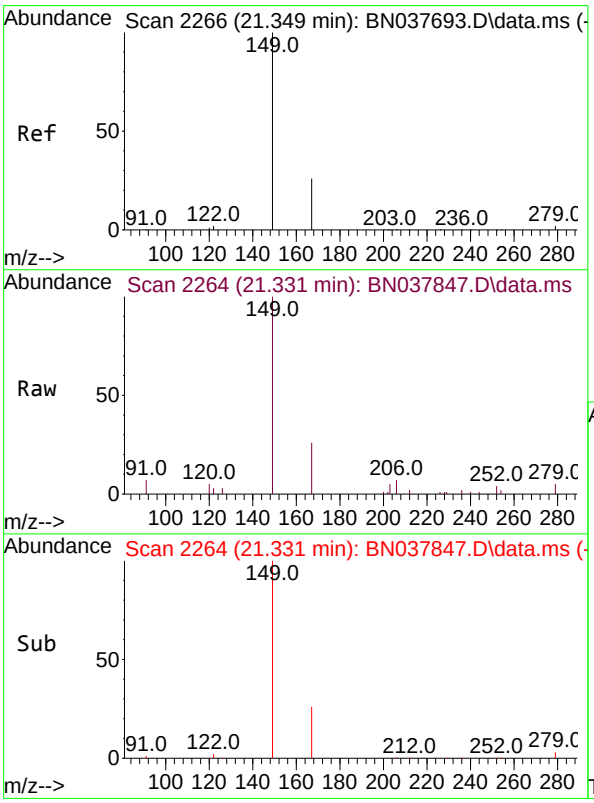
#33
Chrysene
Concen: 0.381 ng
RT: 21.438 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 17106

Ion	Ratio	Lower	Upper
228	100		
226	31.4	23.5	35.3
229	19.5	15.9	23.9

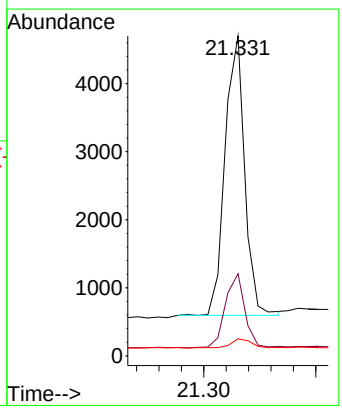


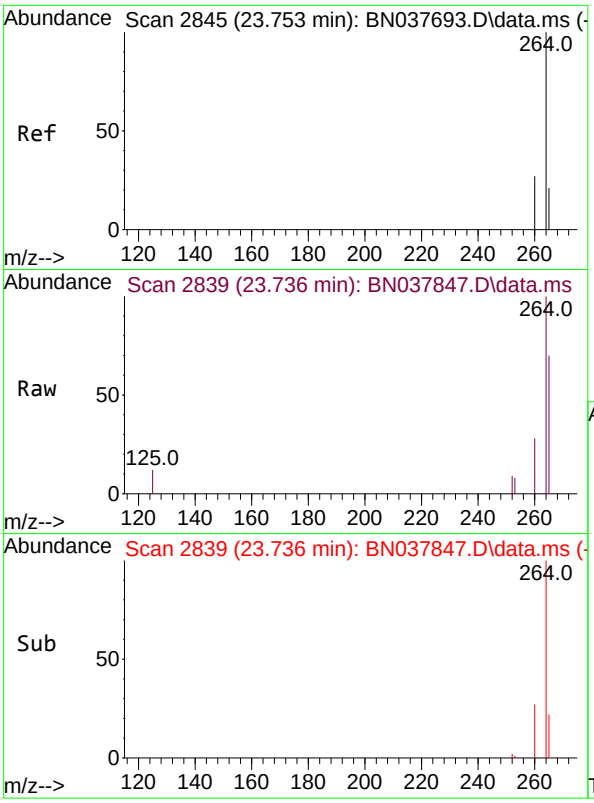


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.402 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:149 Resp: 4990

Ion	Ratio	Lower	Upper
149	100		
167	26.8	20.8	31.2
279	3.7	3.3	4.9



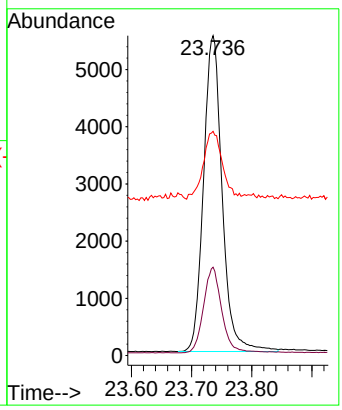


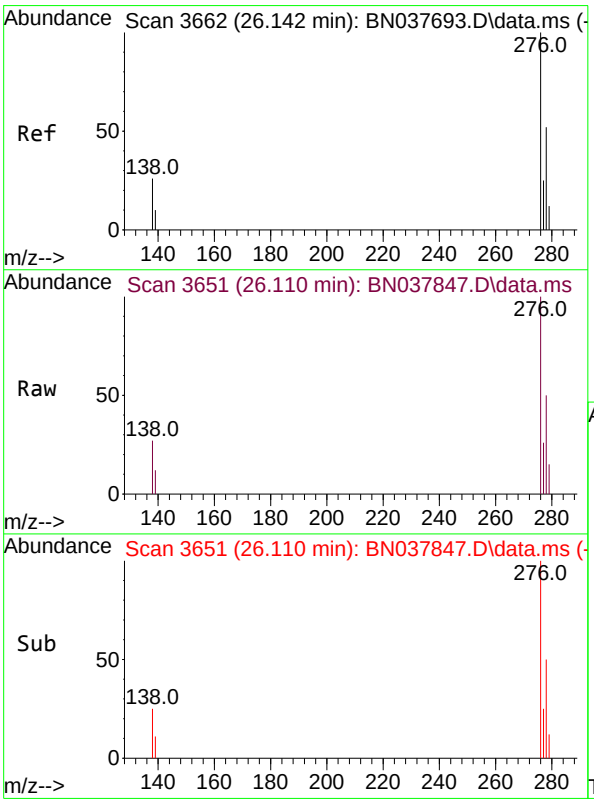
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 28
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 11862

Ion	Ratio	Lower	Upper
264	100		
260	27.6	21.8	32.8
265	70.1	39.4	59.2#

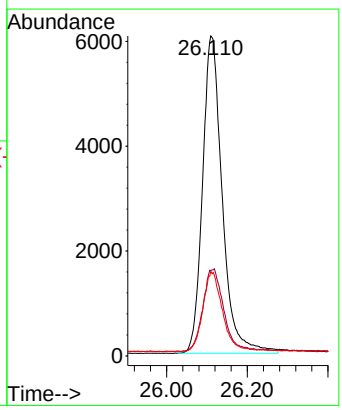


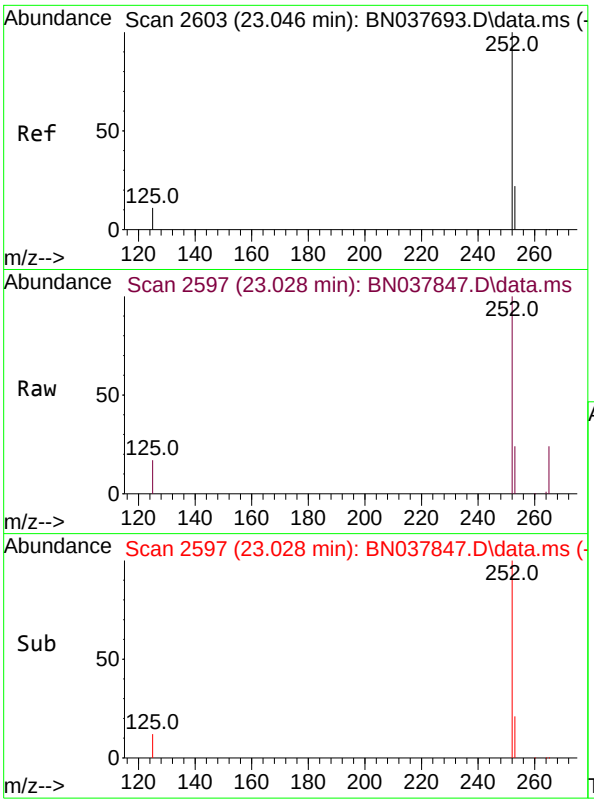


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.413 ng
RT: 26.110 min Scan# 3651
Delta R.T. -0.032 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:276 Resp: 20571

Ion	Ratio	Lower	Upper
276	100		
138	27.2	21.9	32.9
277	25.0	20.1	30.1



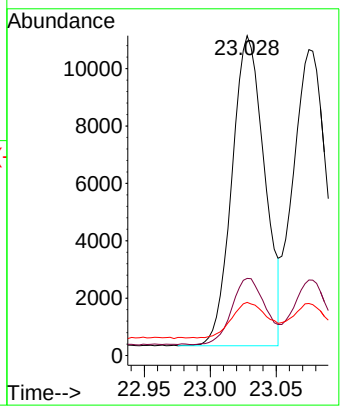


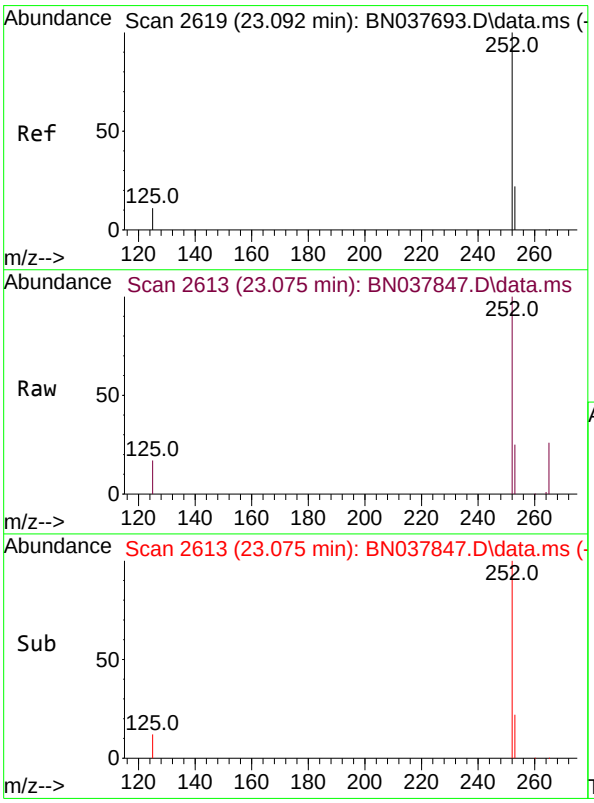
#37
Benzo(b)fluoranthene
Concen: 0.397 ng
RT: 23.028 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 18556

Ion	Ratio	Lower	Upper
252	100		
253	24.1	19.4	29.2
125	16.6	11.2	16.8

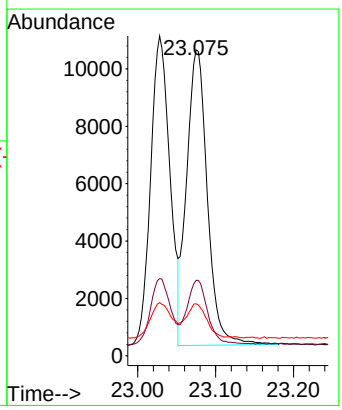


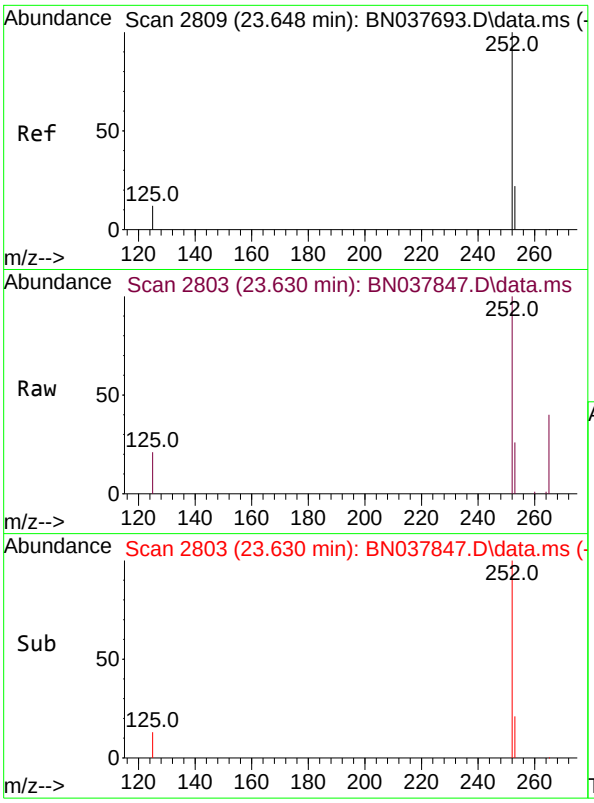


#38
Benzo(k)fluoranthene
Concen: 0.401 ng
RT: 23.075 min Scan# 2613
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:252 Resp: 19102

Ion	Ratio	Lower	Upper
252	100		
253	24.7	19.4	29.0
125	17.0	11.6	17.4



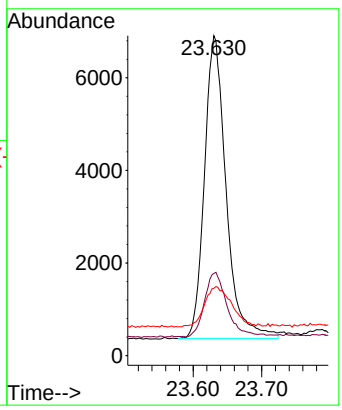


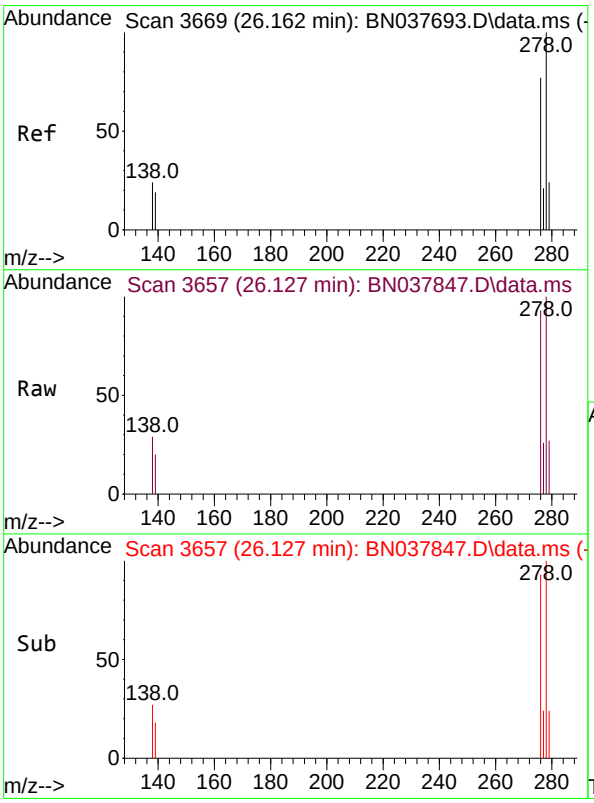
#39
Benzo(a)pyrene
Concen: 0.384 ng
RT: 23.630 min Scan# 28
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 14379

Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.8	31.2
125	21.0	13.9	20.9#

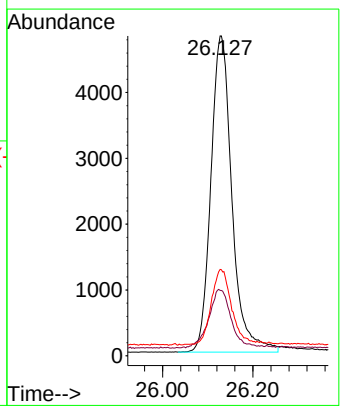


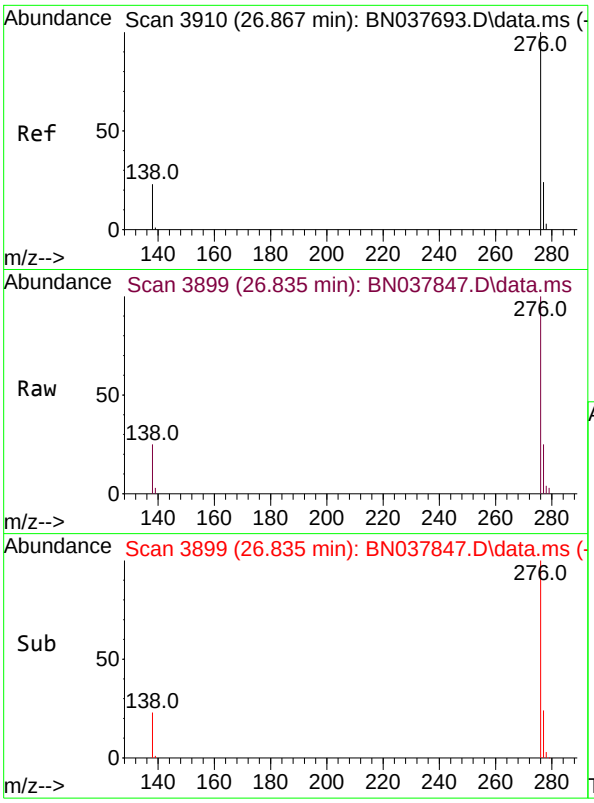


#40
Dibenzo(a,h)anthracene
Concen: 0.392 ng
RT: 26.127 min Scan# 3657
Delta R.T. -0.035 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:278 Resp: 15603

Ion	Ratio	Lower	Upper
278	100		
139	20.5	17.8	26.6
279	27.0	22.0	33.0



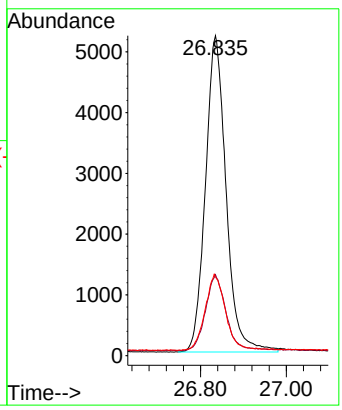


#41
Benzo(g,h,i)perylene
Concen: 0.390 ng
RT: 26.835 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 17395

Ion	Ratio	Lower	Upper
276	100		
277	25.3	20.6	31.0
138	24.6	20.2	30.2



Evaluate Continuing Calibration Report

Sample Results: **BN037847.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037847.D
Acq On : 20 Sep 2025 11:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 22 00:38:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	123	-0.01
2		1,4-Dioxane	0.417	0.423	-1.4	123	0.00
3		n-Nitrosodimethylamine	0.544	0.519	4.6	113	0.00
4	S	2-Fluorophenol	0.918	0.876	4.6	121	0.00
5	S	Phenol-d6	1.191	1.109	6.9	118	0.00
6		bis(2-Chloroethyl)ether	1.064	1.029	3.3	118	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	122	-0.02
8	S	Nitrobenzene-d5	0.293	0.288	1.7	124	-0.02
9		Naphthalene	1.093	1.051	3.8	120	-0.01
10		Hexachlorobutadiene	0.198	0.188	5.1	116	-0.02
11	SURR	2-Methylnaphthalene-d10	0.530	0.470	11.3	115	-0.02
12		2-Methylnaphthalene	0.676	0.625	7.5	116	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	117	-0.02
14	S	2,4,6-Tribromophenol	0.104	0.123	-18.3	143	-0.01
15	S	2-Fluorobiphenyl	1.673	1.607	3.9	114	-0.01
16		Acenaphthylene	1.834	1.674	8.7	110	-0.01
17		Acenaphthene	1.240	1.169	5.7	112	-0.02
18		Fluorene	1.502	1.367	9.0	111	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	116	-0.01
20		4,6-Dinitro-2-methylphenol	0.037	0.030	18.9	106	-0.01
21		4-Bromophenyl-phenylether	0.261	0.237	9.2	109	-0.02
22		Hexachlorobenzene	0.300	0.305	-1.7	121	-0.01
23		Atrazine	0.166	0.148	10.8	113	-0.01
24		Pentachlorophenol	0.087	0.092	-5.7	144	-0.01
25		Phenanthrene	1.259	1.210	3.9	115	-0.02
26		Anthracene	1.116	1.046	6.3	113	-0.01
27	SURR	Fluoranthene-d10	1.004	0.915	8.9	114	-0.01
28		Fluoranthene	1.381	1.322	4.3	117	-0.01
29	I	Chrysene-d12	1.000	1.000	0.0	128	-0.02
30		Pyrene	1.566	1.435	8.4	118	-0.01
31	S	Terphenyl-d14	0.812	0.706	13.1	113	-0.01
32		Benzo(a)anthracene	1.395	1.317	5.6	125	0.00
33		Chrysene	1.496	1.425	4.7	122	-0.02
34		Bis(2-ethylhexyl)phthalate	0.414	0.416	-0.5	142	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	132	-0.02
36		Indeno(1,2,3-cd)pyrene	1.681	1.734	-3.2	149	-0.03
37		Benzo(b)fluoranthene	1.575	1.564	0.7	133	-0.02
38		Benzo(k)fluoranthene	1.606	1.610	-0.2	140	-0.02
39	C	Benzo(a)pyrene	1.261	1.212	3.9	134	-0.02
40		Dibenzo(a,h)anthracene	1.342	1.315	2.0	144	-0.04
41		Benzo(g,h,i)perylene	1.506	1.466	2.7	134	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN037847.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037847.D
Acq On : 20 Sep 2025 11:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 22 00:38:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	123	-0.01
2		1,4-Dioxane	0.400	0.406	-1.5	123	0.00
3		n-Nitrosodimethylamine	0.400	0.381	4.8	113	0.00
4	S	2-Fluorophenol	0.400	0.381	4.8	121	0.00
5	S	Phenol-d6	0.400	0.373	6.8	118	0.00
6		bis(2-Chloroethyl)ether	0.400	0.387	3.3	118	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	122	-0.02
8	S	Nitrobenzene-d5	0.400	0.394	1.5	124	-0.02
9		Naphthalene	0.400	0.384	4.0	120	-0.01
10		Hexachlorobutadiene	0.400	0.380	5.0	116	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.355	11.3	115	-0.02
12		2-Methylnaphthalene	0.400	0.369	7.8	116	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	117	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.472	-18.0	143	-0.01
15	S	2-Fluorobiphenyl	0.400	0.384	4.0	114	-0.01
16		Acenaphthylene	0.400	0.365	8.8	110	-0.01
17		Acenaphthene	0.400	0.377	5.8	112	-0.02
18		Fluorene	0.400	0.364	9.0	111	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	116	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.327	18.3	106	-0.01
21		4-Bromophenyl-phenylether	0.400	0.363	9.3	109	-0.02
22		Hexachlorobenzene	0.400	0.407	-1.7	121	-0.01
23		Atrazine	0.400	0.357	10.8	113	-0.01
24		Pentachlorophenol	0.400	0.423	-5.7	144	-0.01
25		Phenanthrene	0.400	0.384	4.0	115	-0.02
26		Anthracene	0.400	0.375	6.3	113	-0.01
27	SURR	Fluoranthene-d10	0.400	0.365	8.8	114	-0.01
28		Fluoranthene	0.400	0.383	4.3	117	-0.01
29	I	Chrysene-d12	0.400	0.400	0.0	128	-0.02
30		Pyrene	0.400	0.367	8.3	118	-0.01
31	S	Terphenyl-d14	0.400	0.348	13.0	113	-0.01
32		Benzo(a)anthracene	0.400	0.378	5.5	125	0.00
33		Chrysene	0.400	0.381	4.8	122	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.402	-0.5	142	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	132	-0.02
36		Indeno(1,2,3-cd)pyrene	0.400	0.413	-3.2	149	-0.03
37		Benzo(b)fluoranthene	0.400	0.397	0.8	133	-0.02
38		Benzo(k)fluoranthene	0.400	0.401	-0.3	140	-0.02
39	C	Benzo(a)pyrene	0.400	0.384	4.0	134	-0.02
40		Dibenzo(a,h)anthracene	0.400	0.392	2.0	144	-0.04
41		Benzo(g,h,i)perylene	0.400	0.390	2.5	134	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15		
Lab Code:	ACE	SDG No.:	Q3097		
Instrument ID:	BNA_N	Calibration Date/Time:	09/22/2025	10:19	
Lab File ID:	BN037849.D	Init. Calib. Date(s):	09/11/2025	09/11/2025	
EPA Sample No.:	SSTDCCC0.4	Init. Calib. Time(s):	09:56	13:33	

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.554		4.5	20.0
Fluoranthene-d10	1.004	0.954		-5.0	20.0
2-Fluorophenol	0.918	0.898		-2.2	20.0
Phenol-d6	1.191	1.119		-6.0	20.0
Nitrobenzene-d5	0.293	0.294		0.3	20.0
2-Fluorobiphenyl	1.673	1.673		0.0	20.0
2,4,6-Tribromophenol	0.104	0.116		11.5	20.0
Terphenyl-d14	0.812	0.726		-10.6	20.0
1,4-Dioxane	0.417	0.420		0.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037849.D
Acq On : 22 Sep 2025 10:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 22 11:54:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

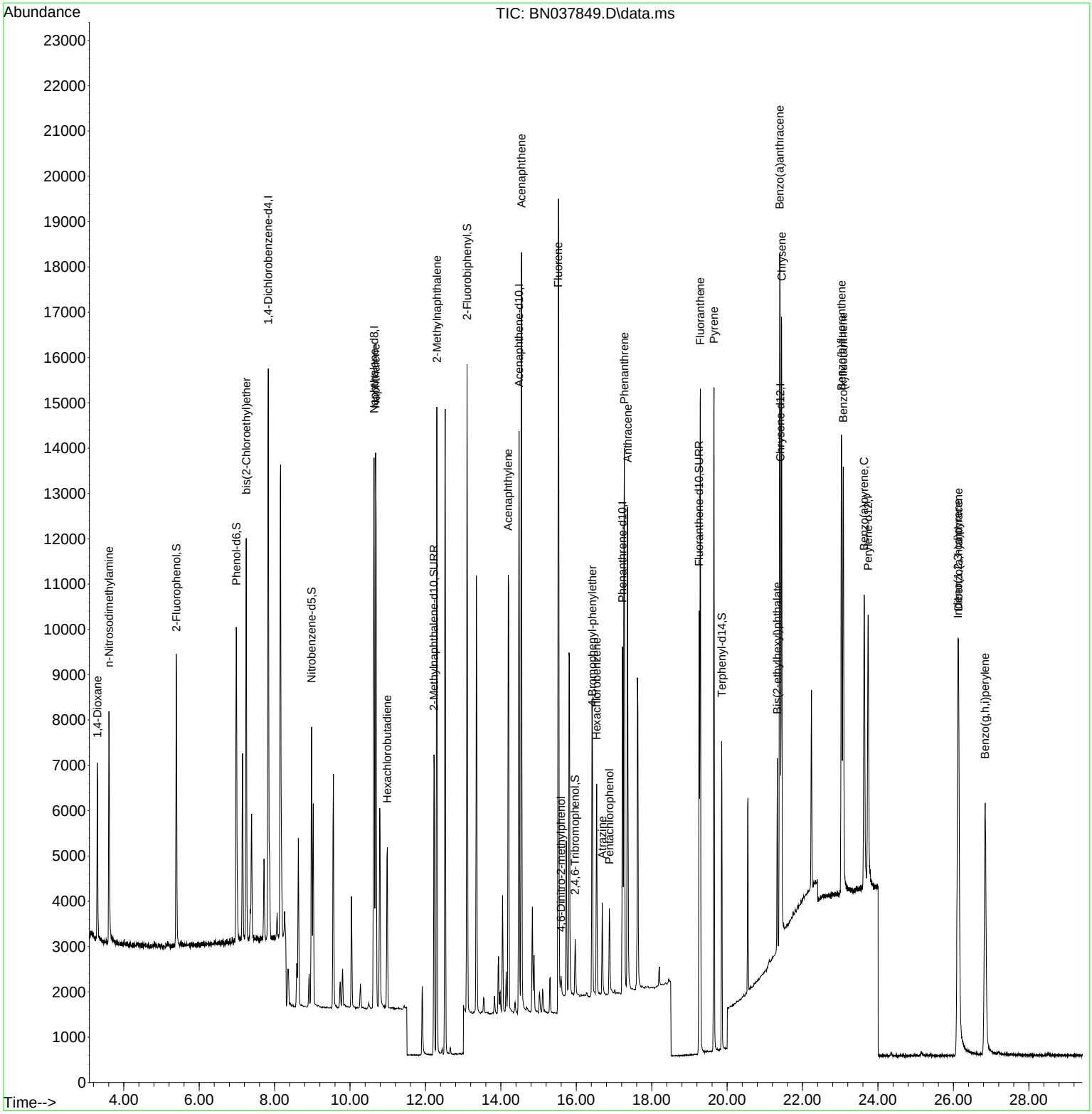
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.833	152	6007	0.400	ng		0.00
7) Naphthalene-d8	10.637	136	15935	0.400	ng		-0.01
13) Acenaphthene-d10	14.484	164	7024	0.400	ng		-0.01
19) Phenanthrene-d10	17.223	188	11177	0.400	ng		-0.01
29) Chrysene-d12	21.411	240	8688	0.400	ng		0.00
35) Perylene-d12	23.738	264	8600	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.399	112	5395	0.391	ng		0.00
5) Phenol-d6	6.988	99	6719	0.376	ng		0.00
8) Nitrobenzene-d5	8.982	82	4692	0.403	ng		-0.01
11) 2-Methylnaphthalene-d10	12.227	152	8829	0.418	ng		-0.02
14) 2,4,6-Tribromophenol	15.969	330	812	0.443	ng		-0.01
15) 2-Fluorobiphenyl	13.105	172	11748	0.400	ng		-0.01
27) Fluoranthene-d10	19.257	212	10663	0.380	ng		-0.01
31) Terphenyl-d14	19.856	244	6310	0.358	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.304	88	2524	0.403	ng		94
3) n-Nitrosodimethylamine	3.608	42	3046	0.373	ng		90
6) bis(2-Chloroethyl)ether	7.248	93	6305	0.395	ng		99
9) Naphthalene	10.680	128	16803	0.386	ng		100
10) Hexachlorobutadiene	10.989	225	2967	0.377	ng	#	100
12) 2-Methylnaphthalene	12.304	142	10097	0.375	ng		99
16) Acenaphthylene	14.195	152	11802	0.366	ng		99
17) Acenaphthene	14.548	154	8351	0.383	ng		99
18) Fluorene	15.522	166	9450	0.358	ng		100
20) 4,6-Dinitro-2-methylph...	15.597	198	305	0.295	ng	#	65
21) 4-Bromophenyl-phenylether	16.429	248	2861	0.393	ng		95
22) Hexachlorobenzene	16.540	284	3680	0.439	ng		98
23) Atrazine	16.689	200	1643	0.354	ng		96
24) Pentachlorophenol	16.875	266	1064	0.437	ng		99
25) Phenanthrene	17.273	178	13567	0.386	ng		99
26) Anthracene	17.360	178	11399	0.366	ng		99
28) Fluoranthene	19.290	202	13302	0.345	ng		100
30) Pyrene	19.652	202	13103	0.385	ng		100
32) Benzo(a)anthracene	21.393	228	11214	0.370	ng		100
33) Chrysene	21.447	228	12655	0.389	ng		100
34) Bis(2-ethylhexyl)phtha...	21.331	149	3687	0.410	ng		99
36) Indeno(1,2,3-cd)pyrene	26.118	276	14013	0.388	ng		99
37) Benzo(b)fluoranthene	23.031	252	13342	0.394	ng	#	94
38) Benzo(k)fluoranthene	23.078	252	13191	0.382	ng	#	94
39) Benzo(a)pyrene	23.633	252	10590	0.391	ng	#	92
40) Dibenzo(a,h)anthracene	26.136	278	10527	0.365	ng		99
41) Benzo(g,h,i)perylene	26.841	276	12869	0.398	ng		99

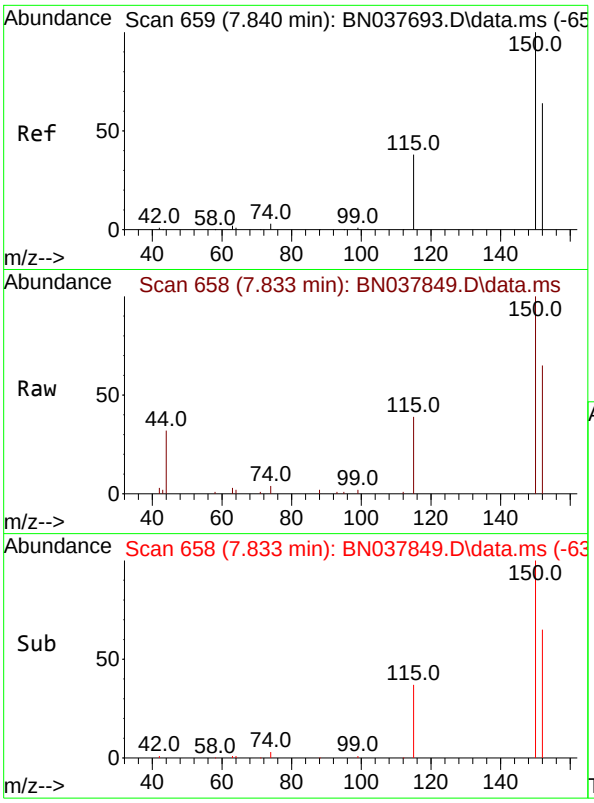
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037849.D
Acq On : 22 Sep 2025 10:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 22 11:54:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



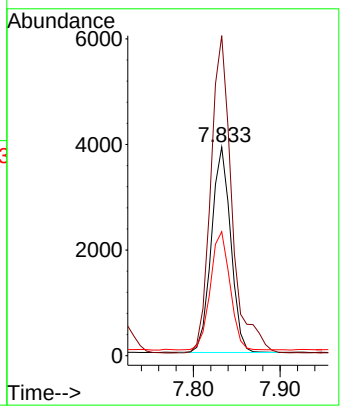


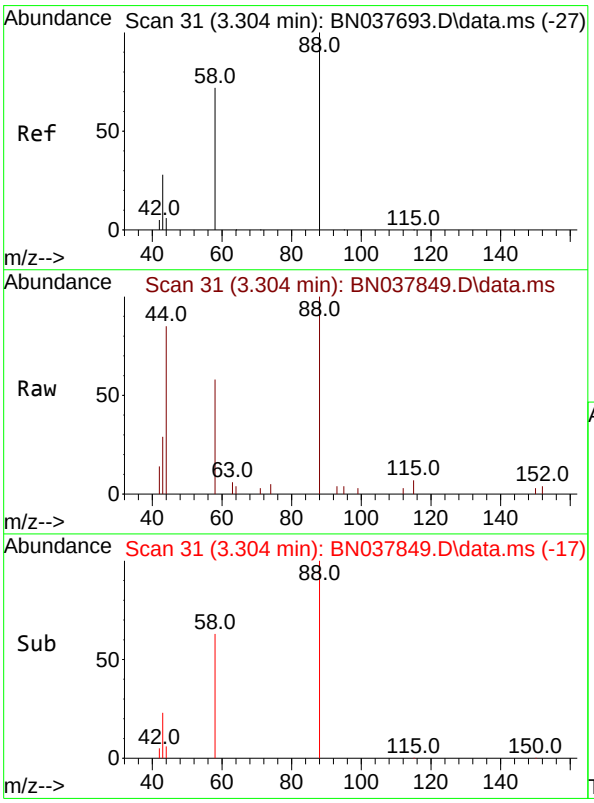
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 6007

Ion	Ratio	Lower	Upper
152	100		
150	153.4	124.5	186.7
115	59.4	49.2	73.8

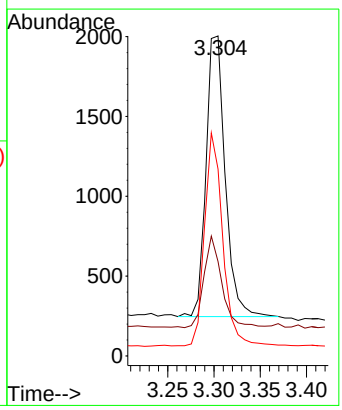


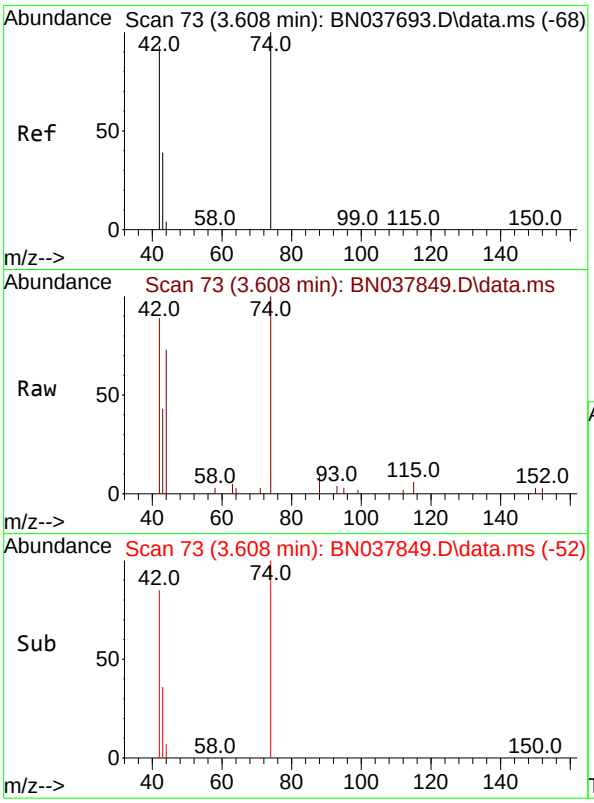


#2
1,4-Dioxane
Concen: 0.403 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion: 88 Resp: 2524

Ion	Ratio	Lower	Upper
88	100		
43	30.0	26.8	40.2
58	72.1	61.9	92.9



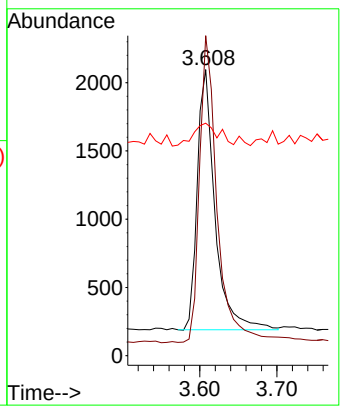


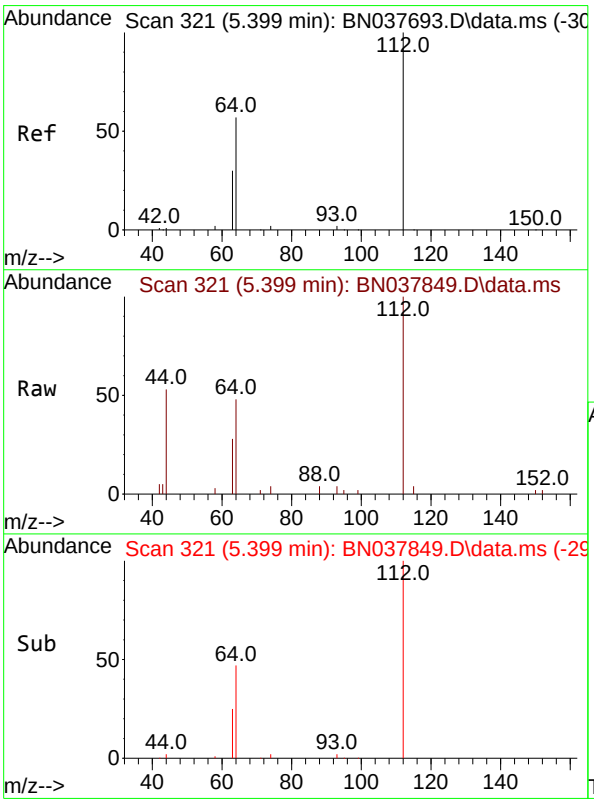
#3
n-Nitrosodimethylamine
Concen: 0.373 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 3046

Ion	Ratio	Lower	Upper
42	100		
74	118.2	86.0	129.0
44	11.2	8.4	12.6

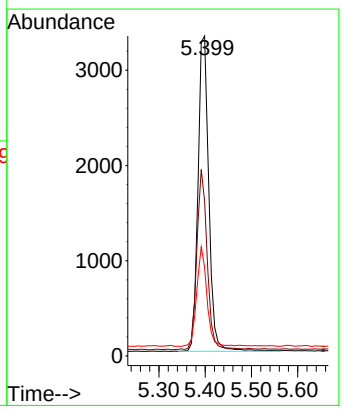


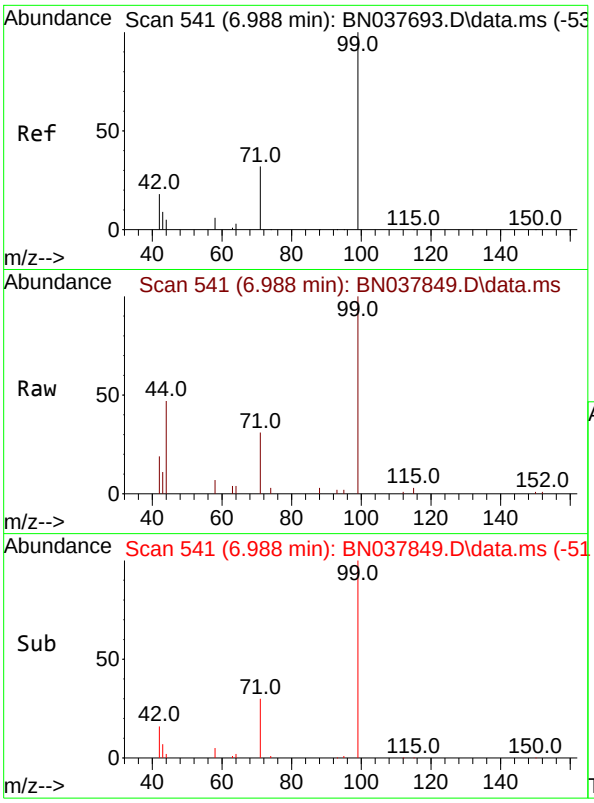


#4
2-Fluorophenol
Concen: 0.391 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:112 Resp: 5395

Ion	Ratio	Lower	Upper
112	100		
64	54.6	44.9	67.3
63	29.5	24.7	37.1



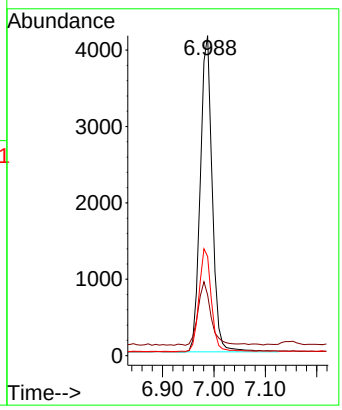


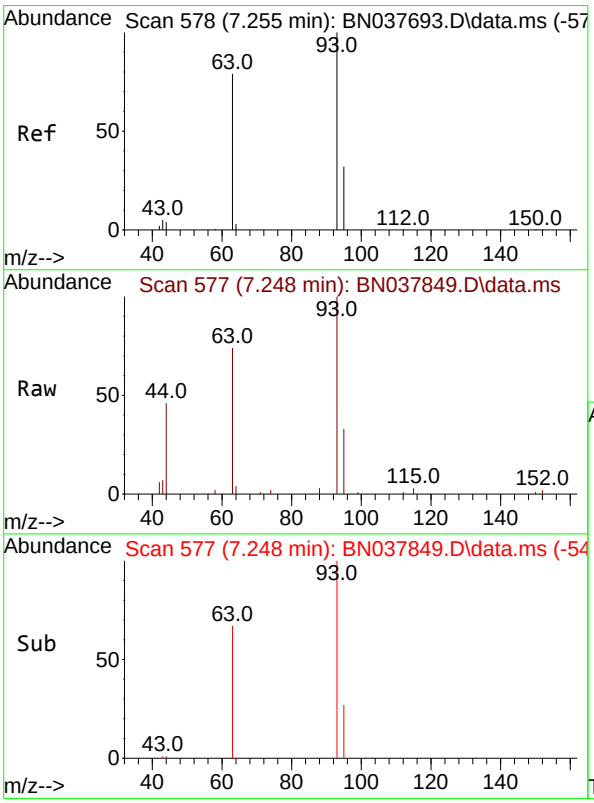
#5
Phenol-d6
Concen: 0.376 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 6719

Ion	Ratio	Lower	Upper
99	100		
42	21.7	16.6	24.8
71	33.3	26.7	40.1

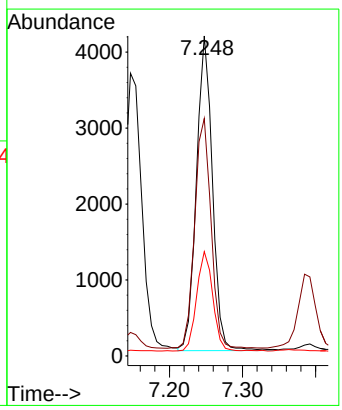


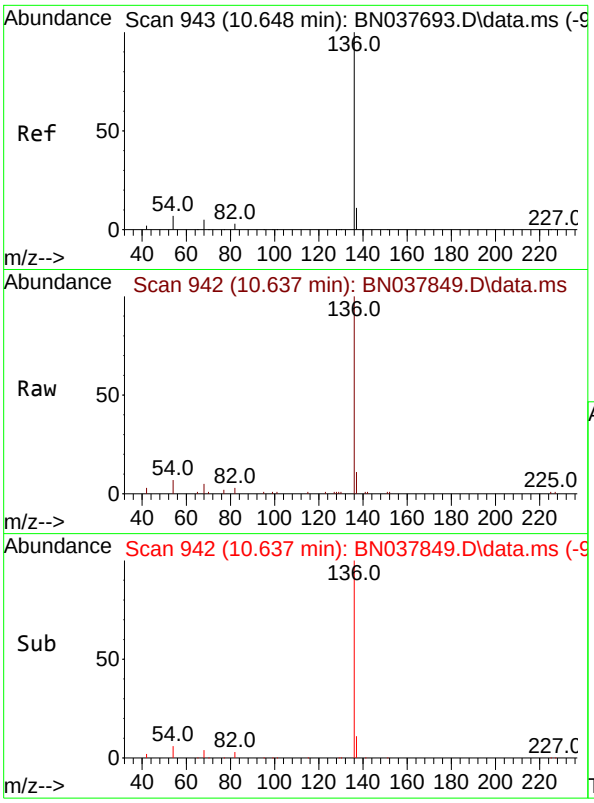


#6
bis(2-Chloroethyl)ether
Concen: 0.395 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion: 93 Resp: 6305

Ion	Ratio	Lower	Upper
93	100		
63	74.6	60.6	90.8
95	31.6	26.0	39.0



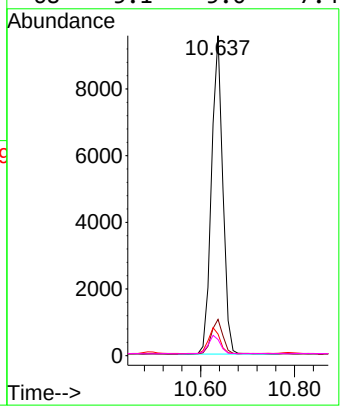


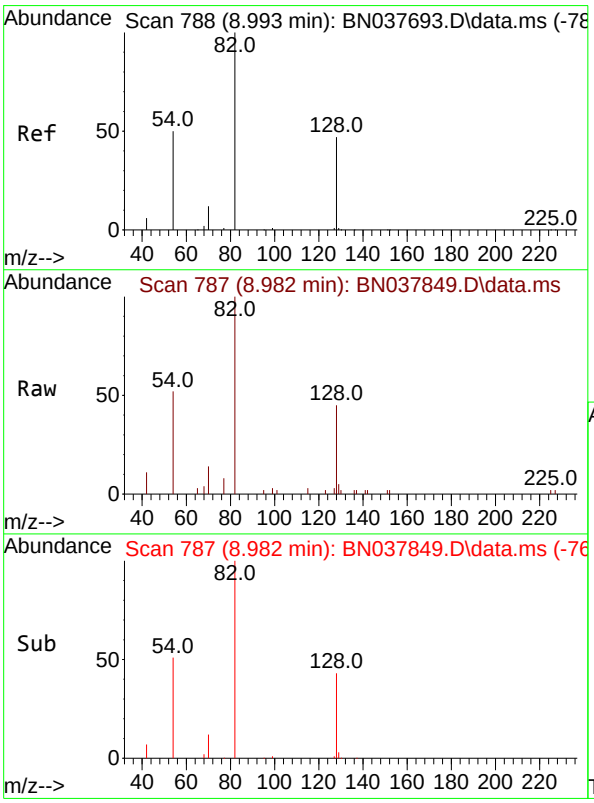
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 15935

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	6.7	6.3	9.5
68	5.1	5.0	7.4

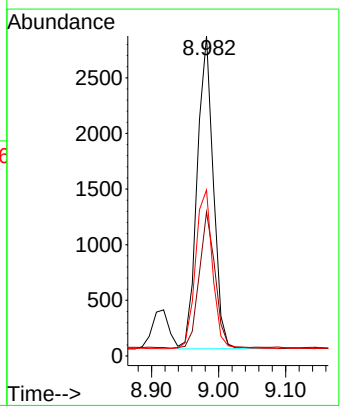


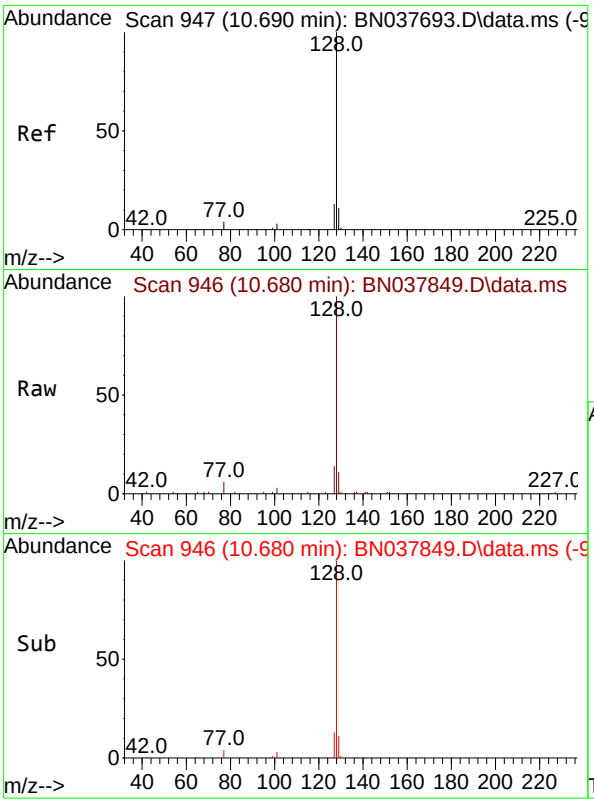


#8
Nitrobenzene-d5
Concen: 0.403 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion: 82 Resp: 4692

Ion	Ratio	Lower	Upper
82	100		
128	45.0	38.3	57.5
54	51.9	41.4	62.2



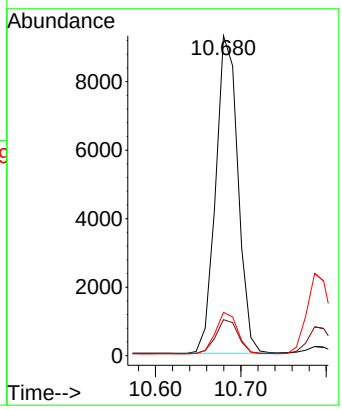


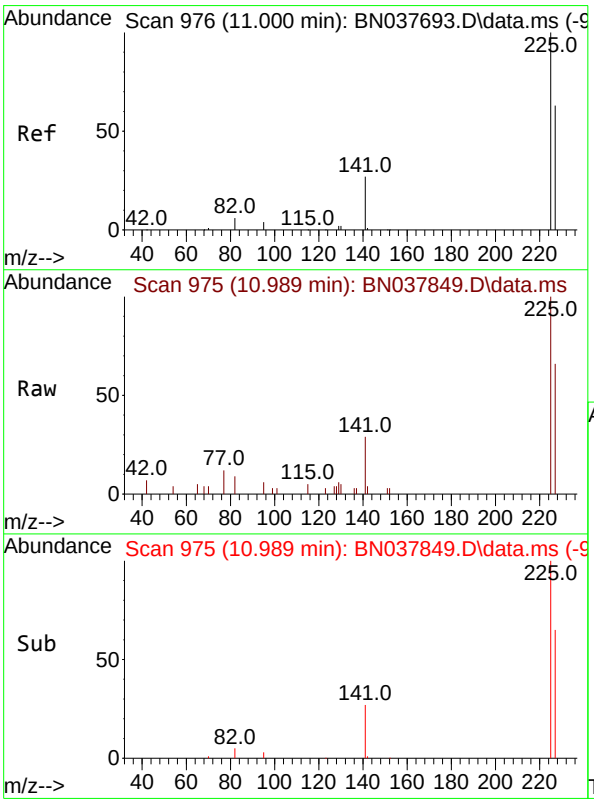
#9
Naphthalene
Concen: 0.386 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 16803

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.1	13.7
127	13.5	10.9	16.3

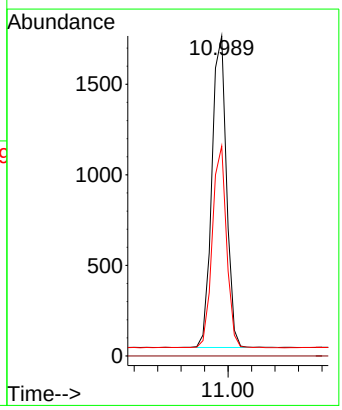


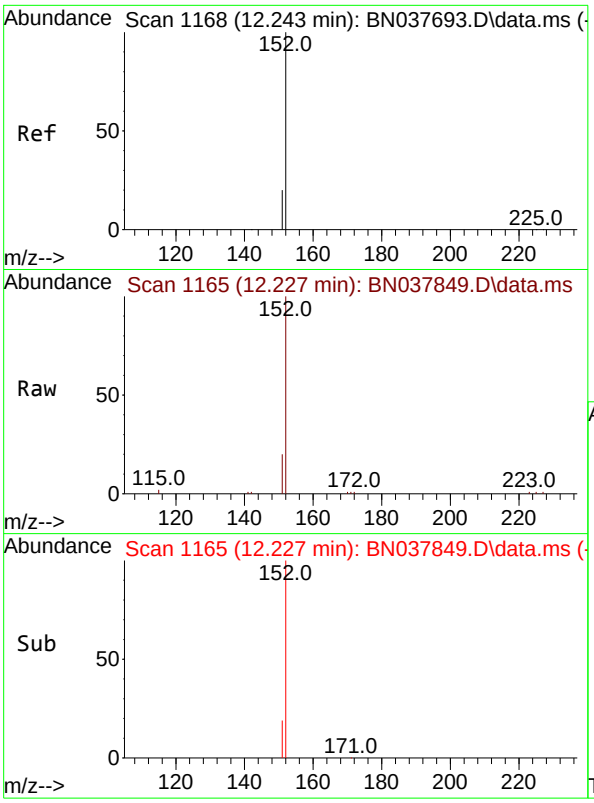


#10
Hexachlorobutadiene
Concen: 0.377 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:225 Resp: 2967

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	50.9	76.3



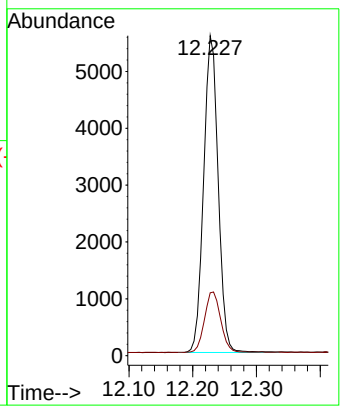


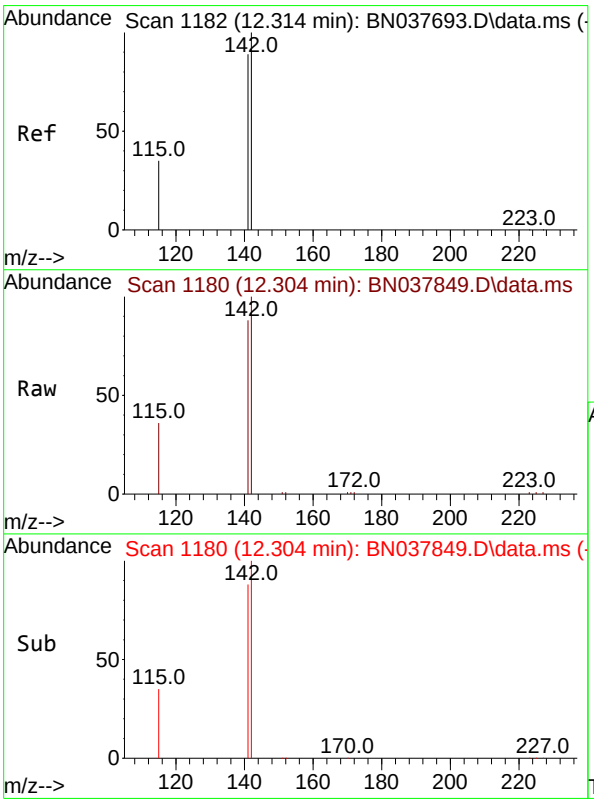
#11
2-Methylnaphthalene-d10
Concen: 0.418 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 8829

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.0	25.6

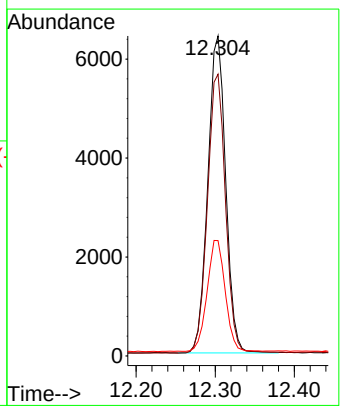


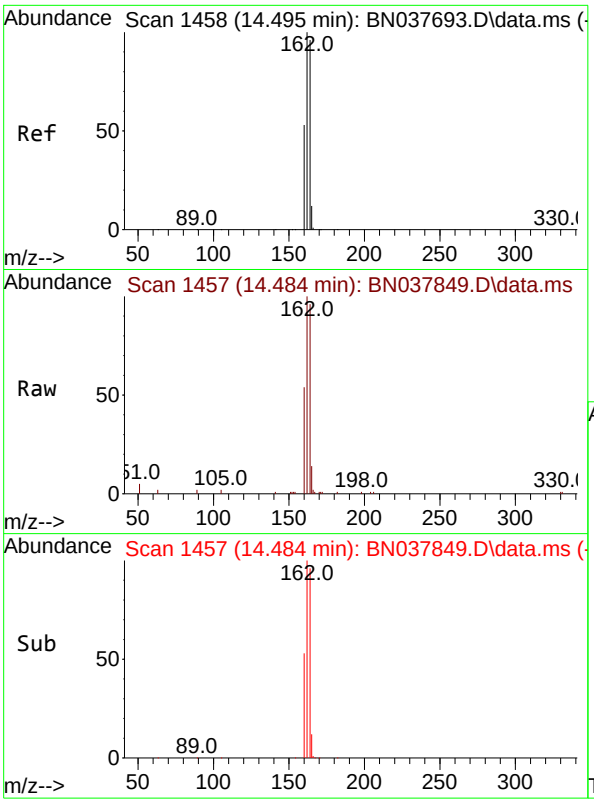


#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:142 Resp: 10097

Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.6	107.4
115	36.1	28.6	43.0



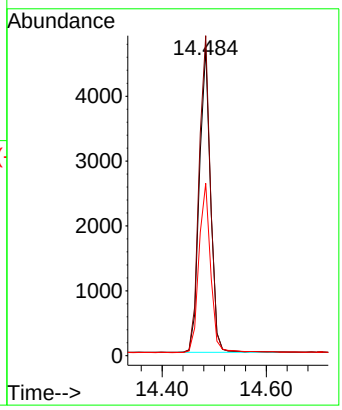


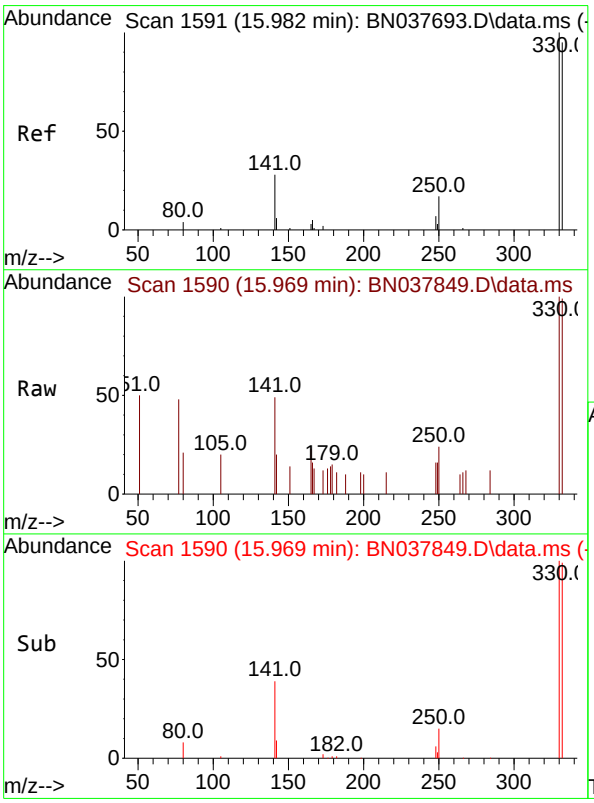
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 7024

Ion	Ratio	Lower	Upper
164	100		
162	104.2	83.1	124.7
160	56.1	44.3	66.5

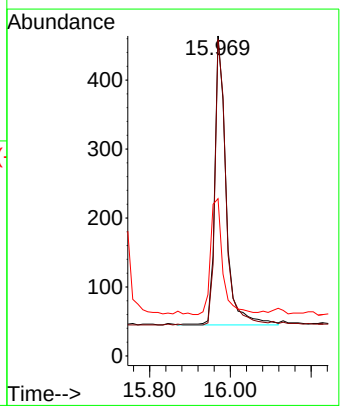


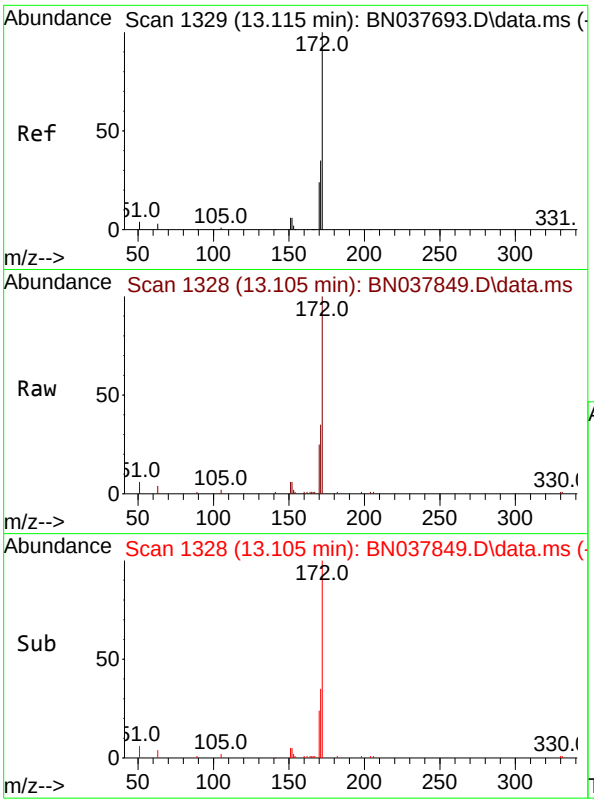


#14
2,4,6-Tribromophenol
Concen: 0.443 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:330 Resp: 812

Ion	Ratio	Lower	Upper
330	100		
332	95.6	75.3	112.9
141	44.0	35.0	52.4



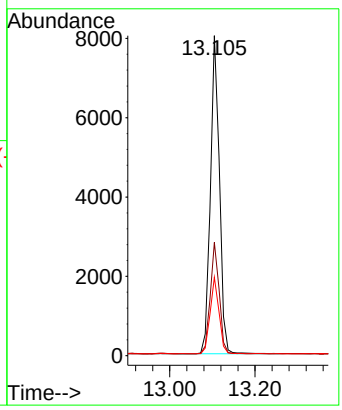


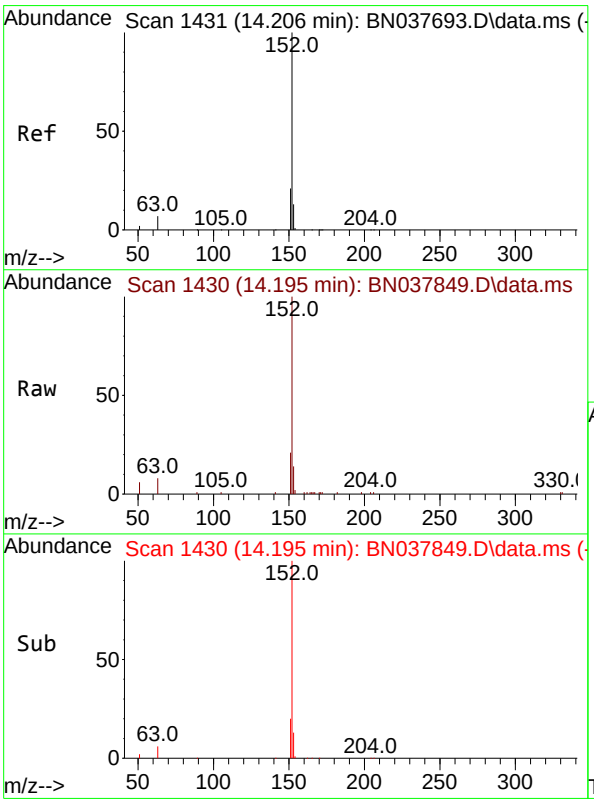
#15
2-Fluorobiphenyl
Concen: 0.400 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 11748

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	24.5	19.8	29.8

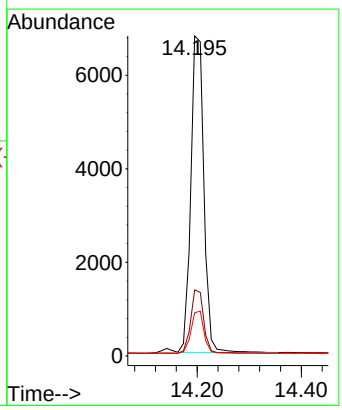


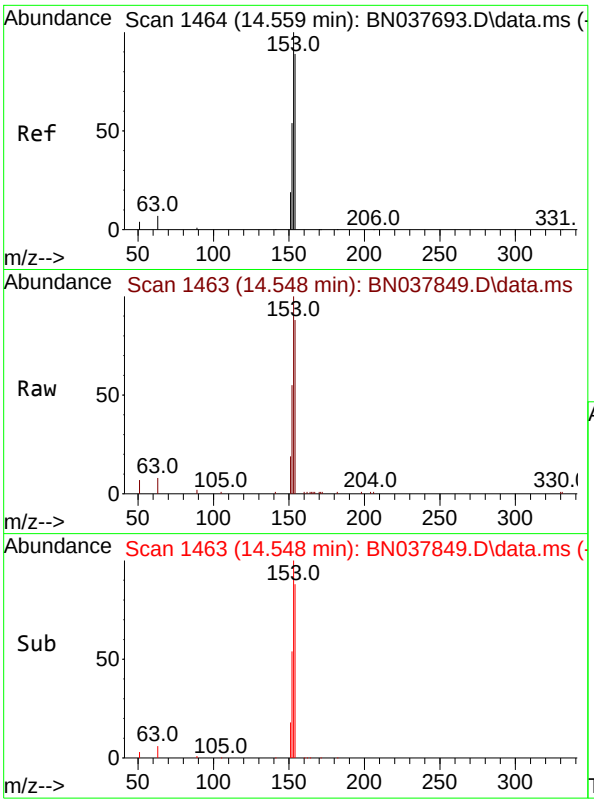


#16
Acenaphthylene
Concen: 0.366 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:152 Resp: 11802

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.8	10.4	15.6



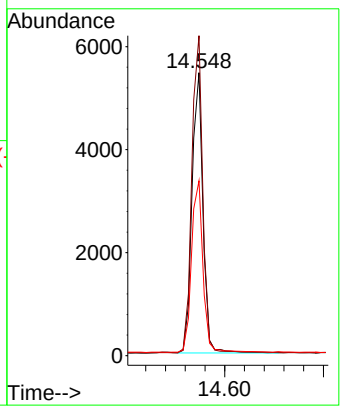


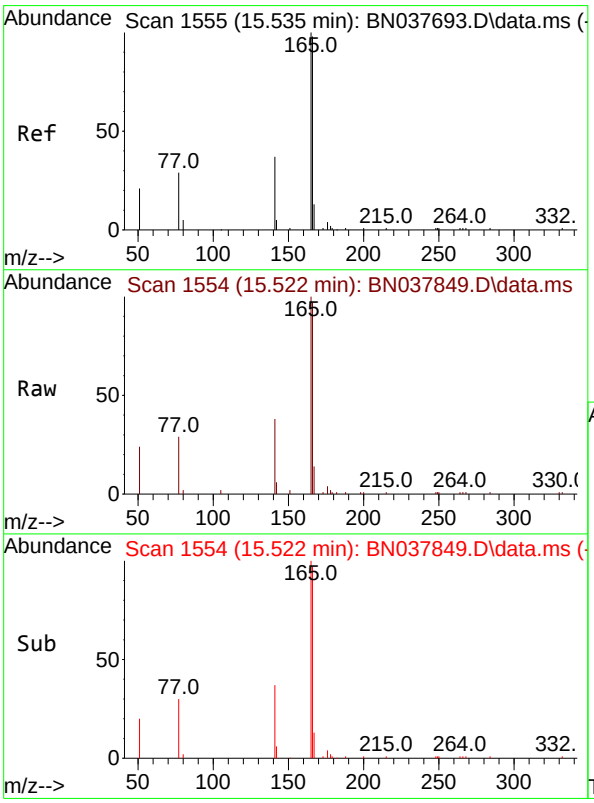
#17
Acenaphthene
Concen: 0.383 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 8351

Ion	Ratio	Lower	Upper
154	100		
153	113.6	89.8	134.8
152	64.3	50.2	75.2

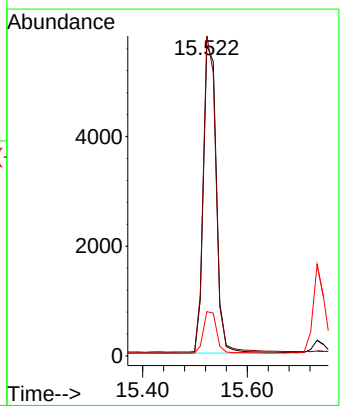


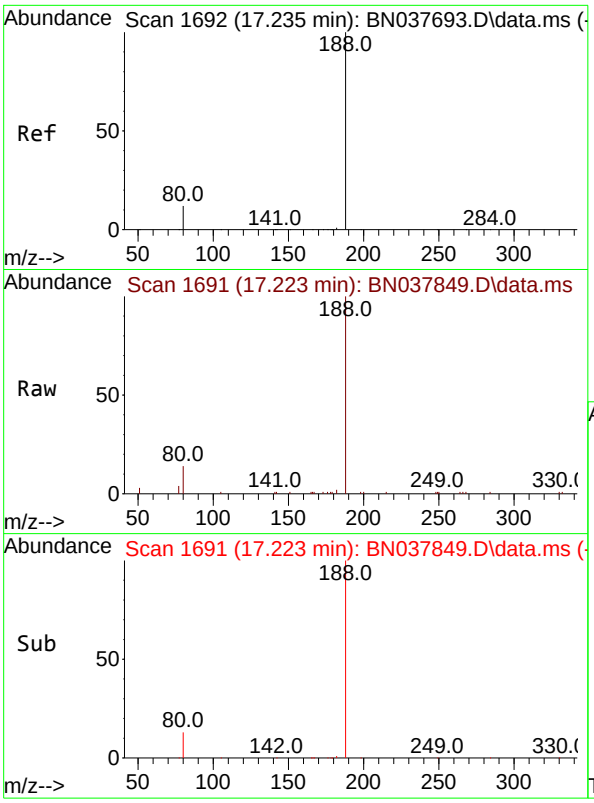


#18
Fluorene
Concen: 0.358 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:166 Resp: 9450

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.6	119.4
167	14.0	10.6	16.0



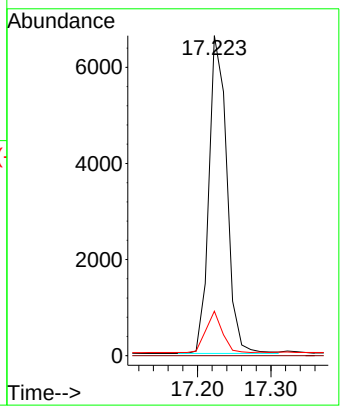


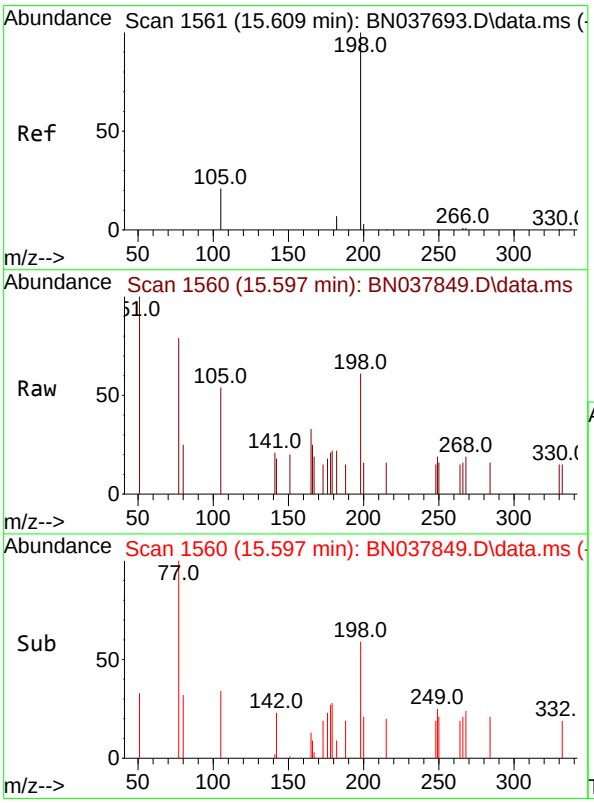
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 11177

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.9	10.6	15.8

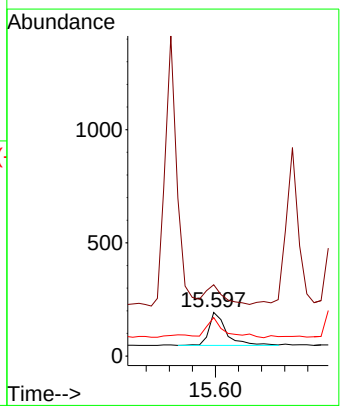


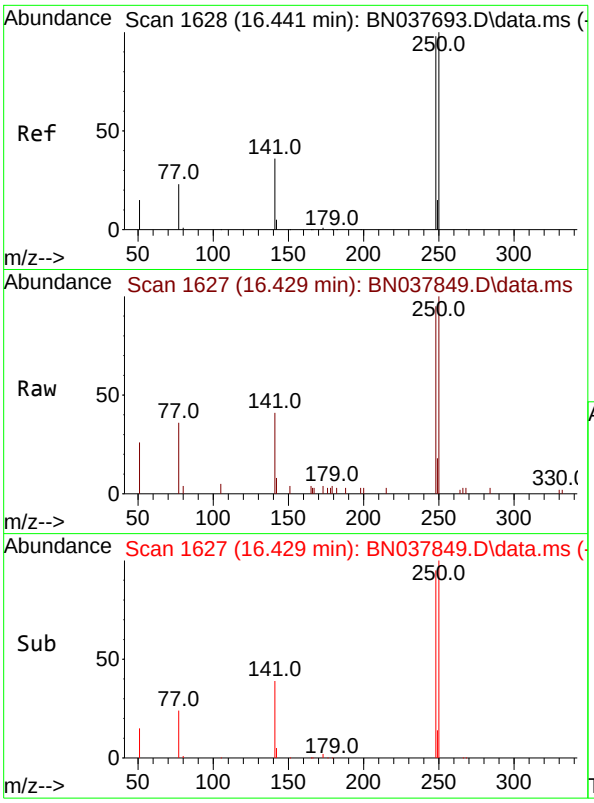


#20
4,6-Dinitro-2-methylphenol
Concen: 0.295 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:198 Resp: 305

Ion	Ratio	Lower	Upper
198	100		
51	163.2	95.1	142.7#
105	88.1	53.8	80.6#



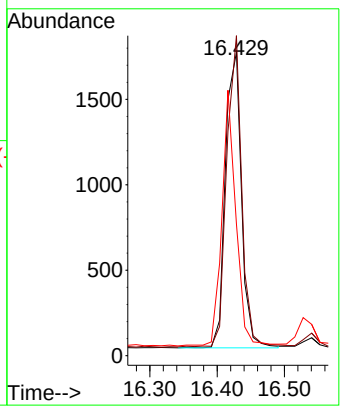


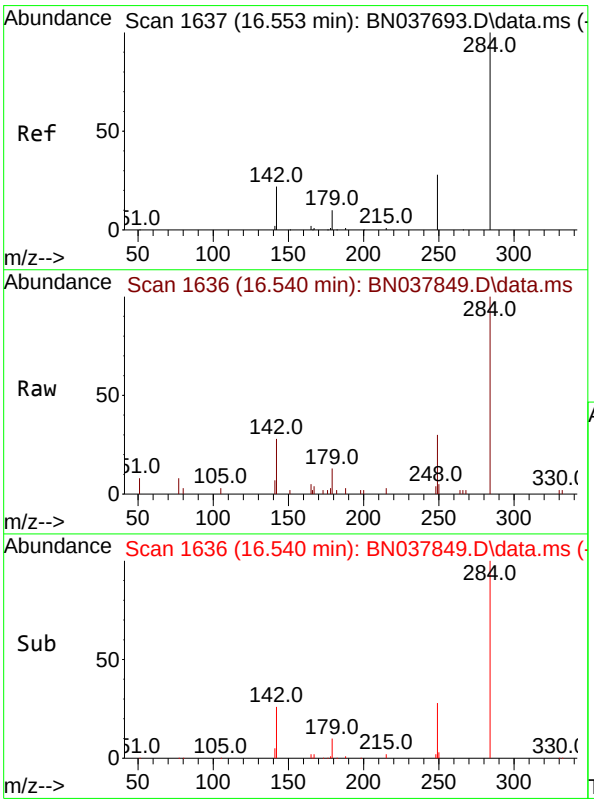
#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2861

Ion	Ratio	Lower	Upper
248	100		
250	105.5	81.5	122.3
141	43.4	30.8	46.2

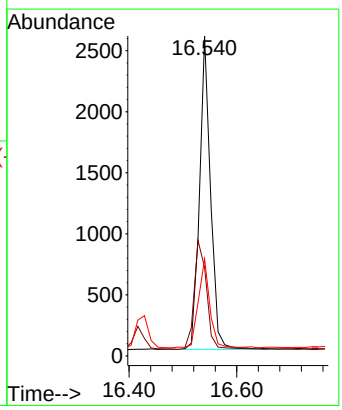


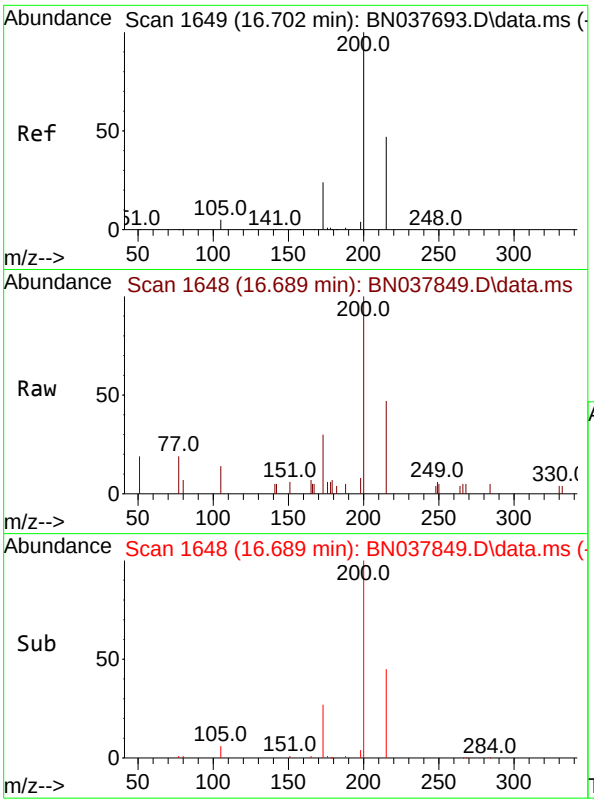


#22
Hexachlorobenzene
Concen: 0.439 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:284 Resp: 3680

Ion	Ratio	Lower	Upper
284	100		
142	39.2	30.9	46.3
249	29.0	24.8	37.2



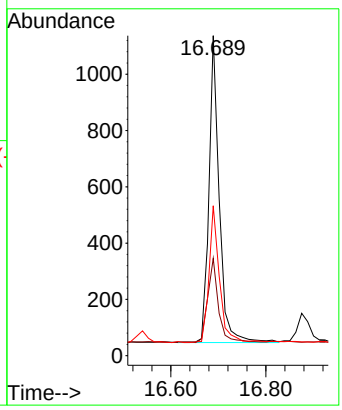


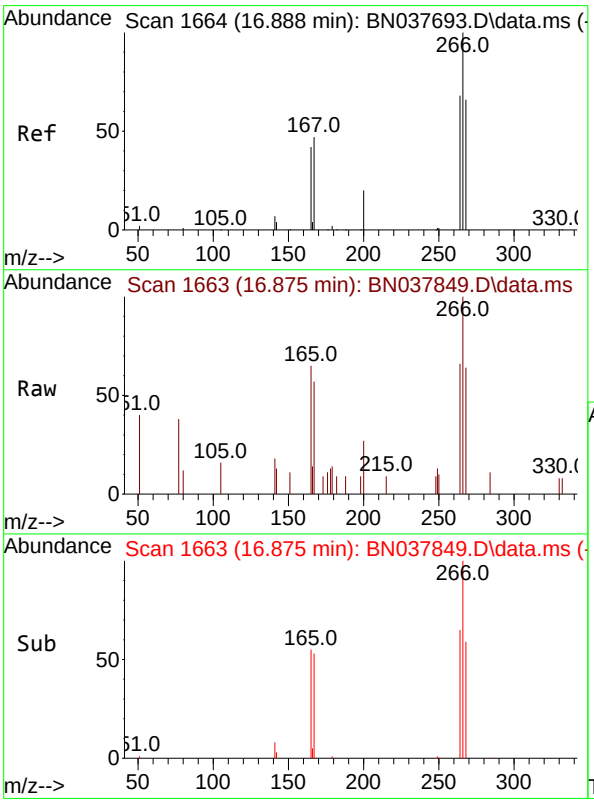
#23
Atrazine
Concen: 0.354 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1643

Ion	Ratio	Lower	Upper
200	100		
173	30.4	21.4	32.2
215	46.9	39.2	58.8

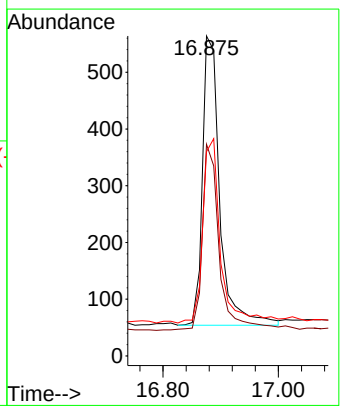


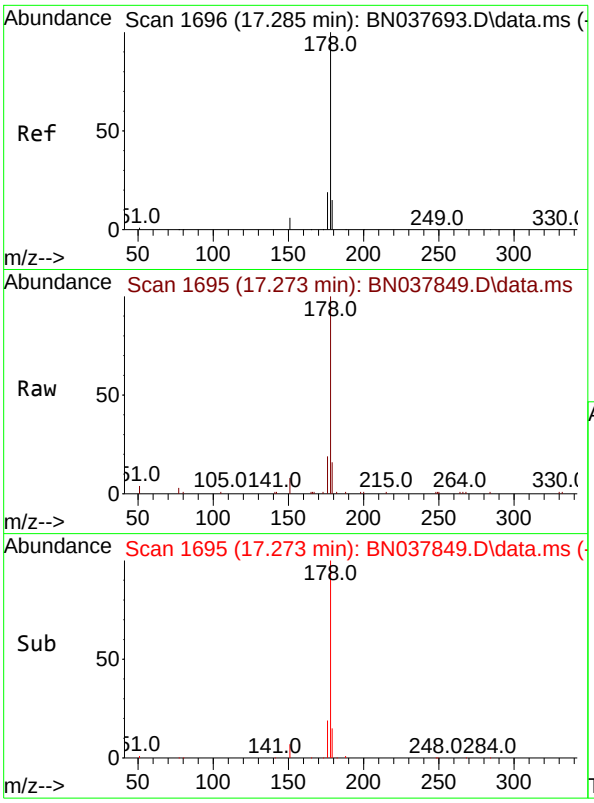


#24
Pentachlorophenol
Concen: 0.437 ng
RT: 16.875 min Scan# 1663
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:266 Resp: 1064

Ion	Ratio	Lower	Upper
266	100		
264	64.1	51.6	77.4
268	65.9	53.2	79.8



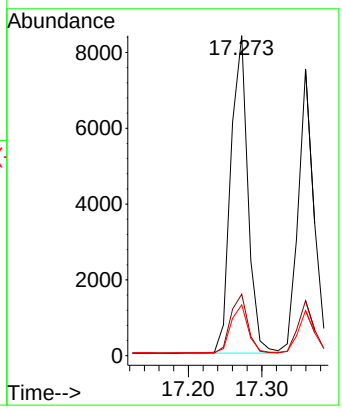


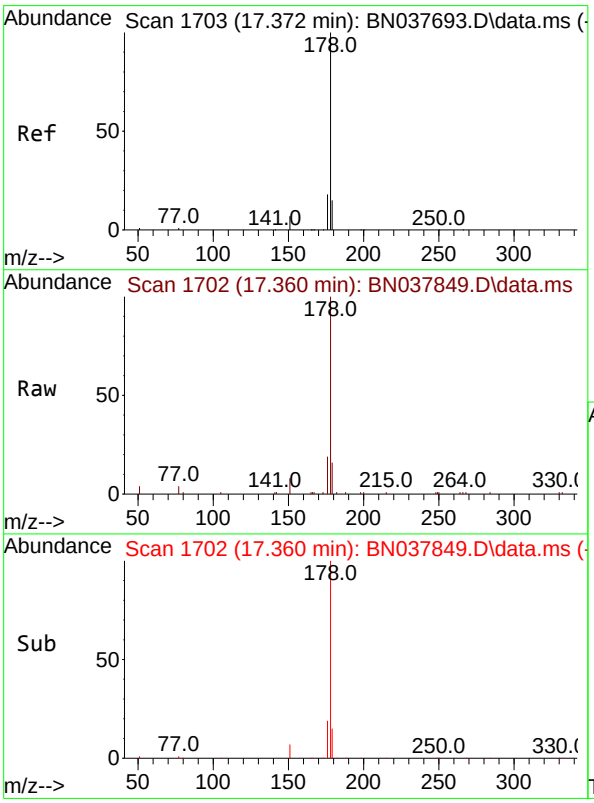
#25
Phenanthrene
Concen: 0.386 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 13567

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.6	12.2	18.2

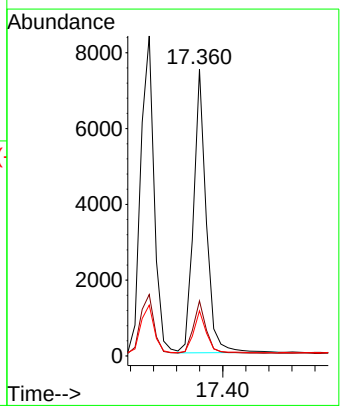


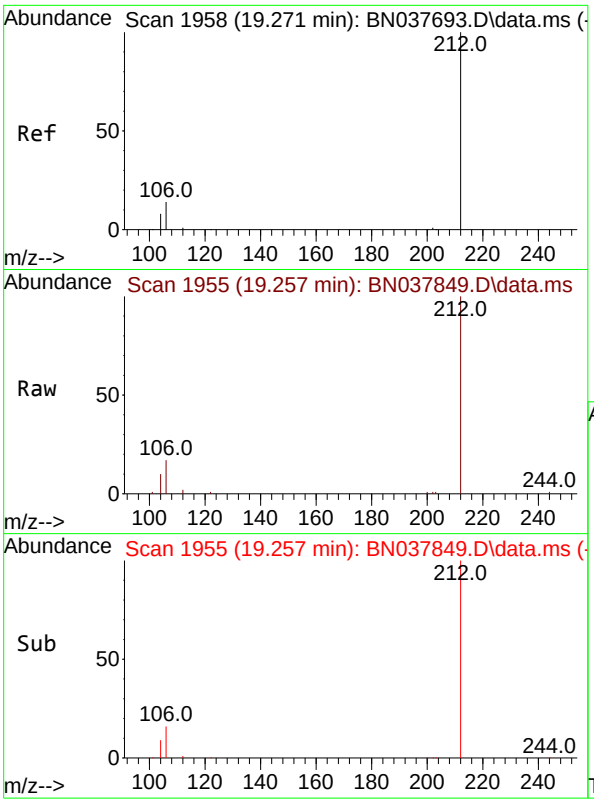


#26
Anthracene
Concen: 0.366 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:178 Resp: 11399

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.6	22.0
179	15.1	12.2	18.4



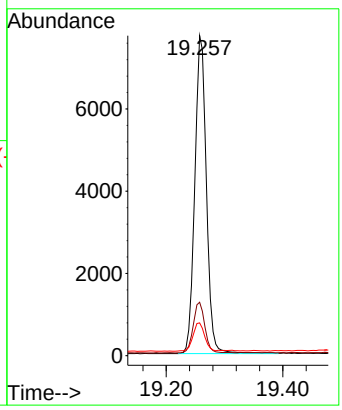


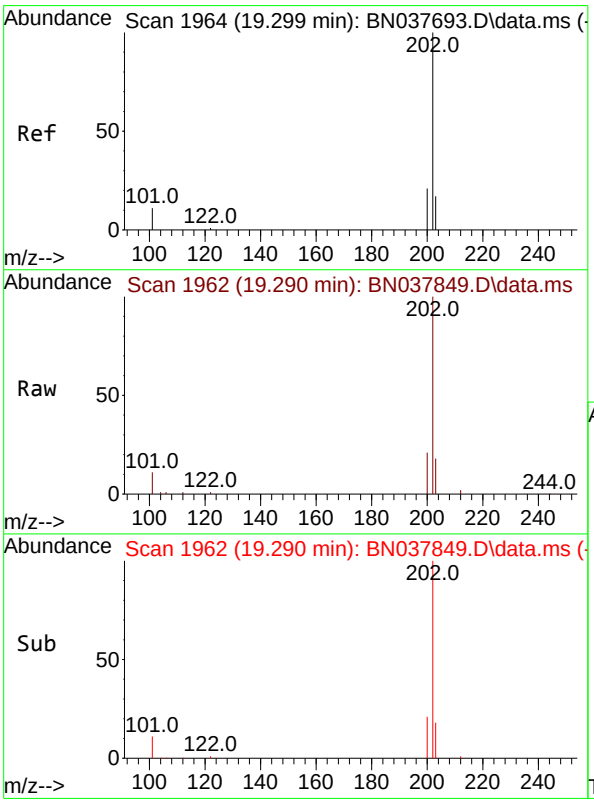
#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 19.257 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 10663

Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.2	18.2
104	9.0	6.9	10.3

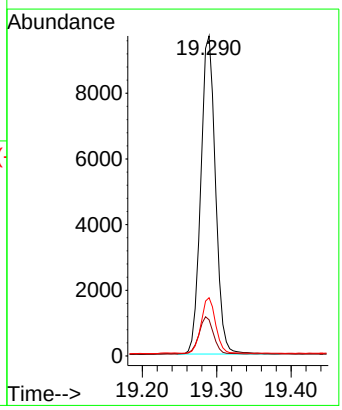


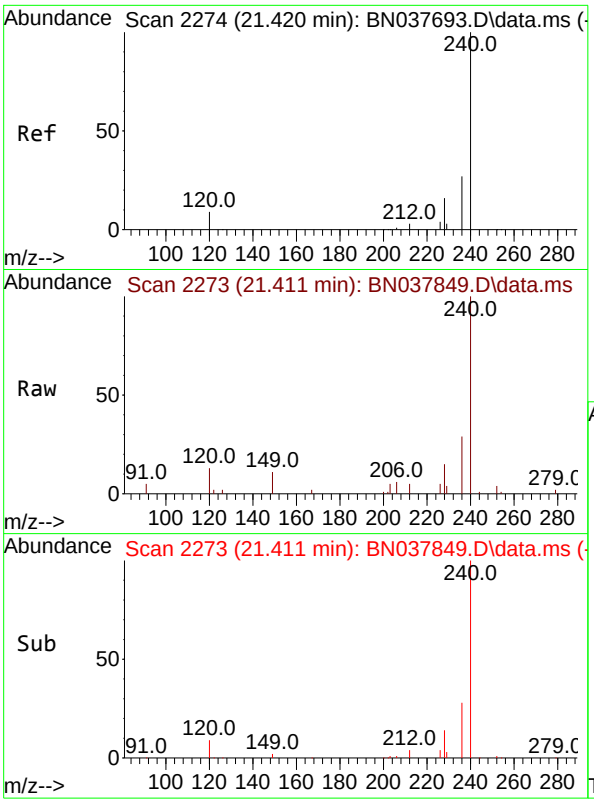


#28
Fluoranthene
Concen: 0.345 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:202 Resp: 13302

Ion	Ratio	Lower	Upper
202	100		
101	11.5	9.3	13.9
203	17.1	13.7	20.5



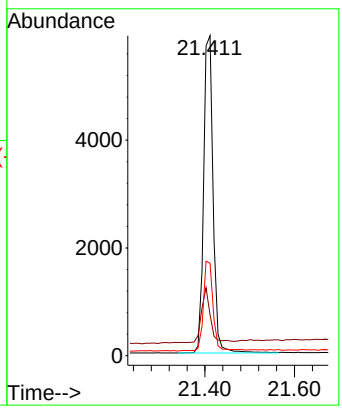


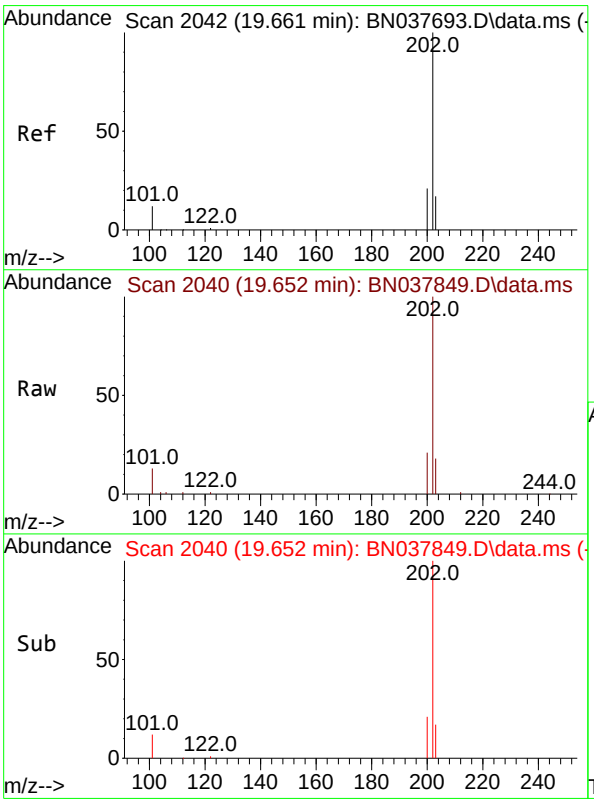
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 8688

Ion	Ratio	Lower	Upper
240	100		
120	12.8	9.2	13.8
236	29.0	22.6	33.8

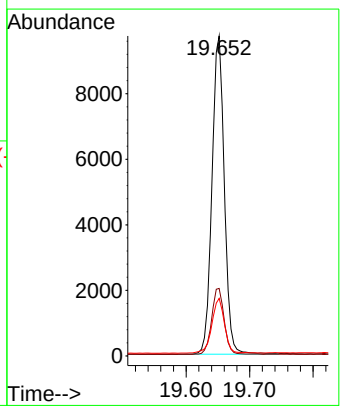


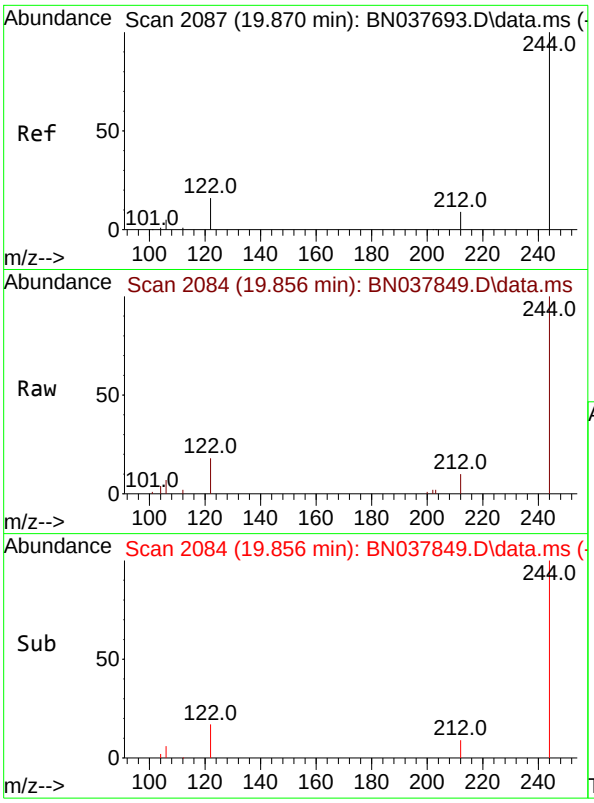


#30
Pyrene
Concen: 0.385 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:202 Resp: 13103

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.8	14.3	21.5



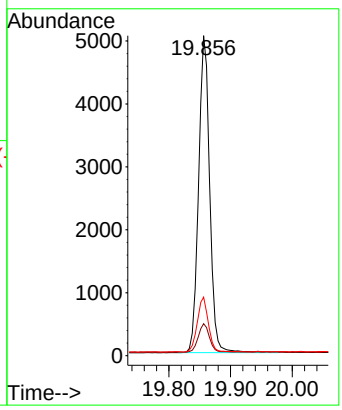


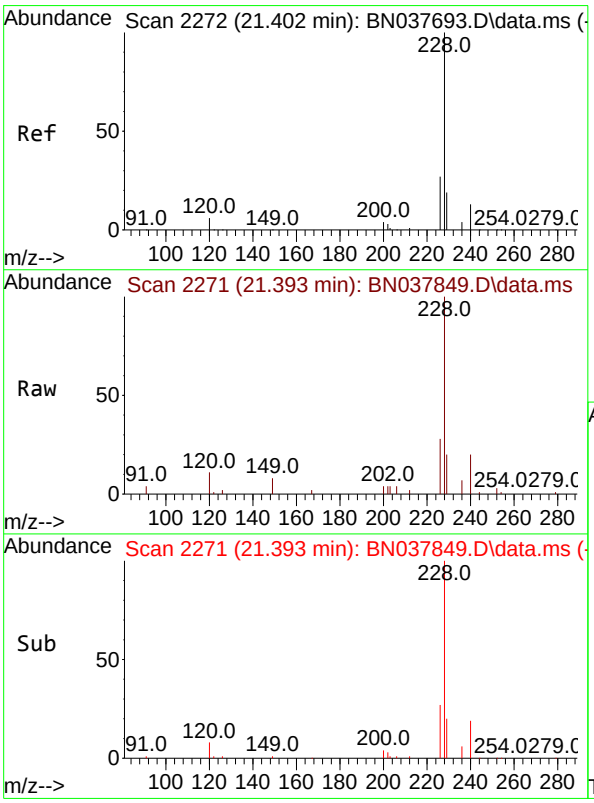
#31
Terphenyl-d14
Concen: 0.358 ng
RT: 19.856 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 6310

Ion	Ratio	Lower	Upper
244	100		
212	10.0	7.5	11.3
122	18.3	13.2	19.8

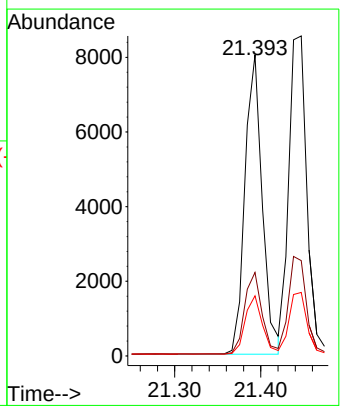


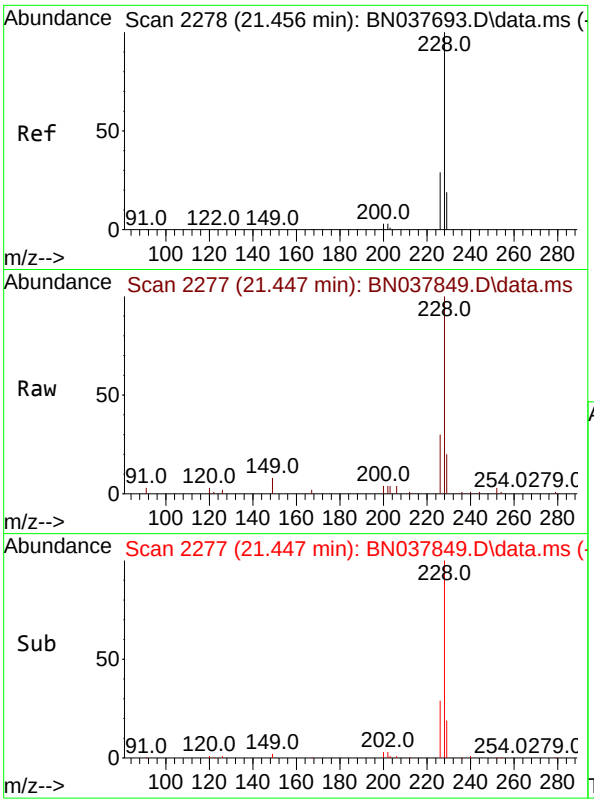


#32
Benzo(a)anthracene
Concen: 0.370 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:228 Resp: 11214

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.2
229	20.0	15.8	23.6



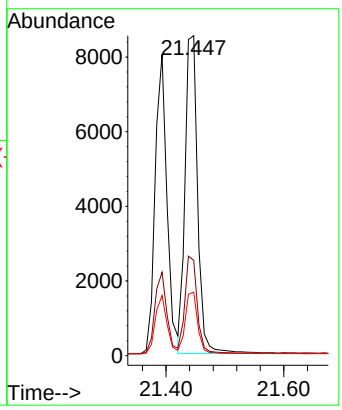


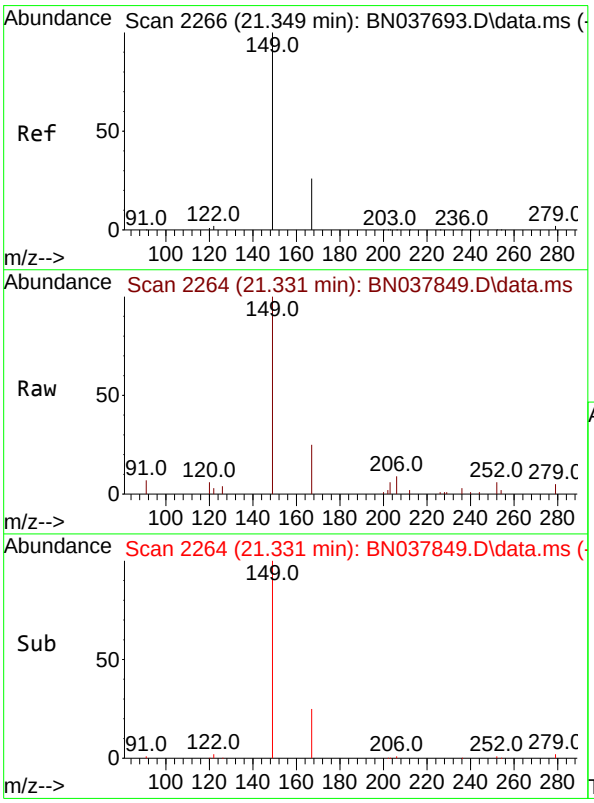
#33
Chrysene
Concen: 0.389 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 12655

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.5	35.3
229	19.9	15.9	23.9

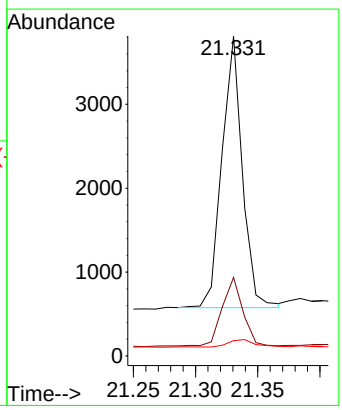


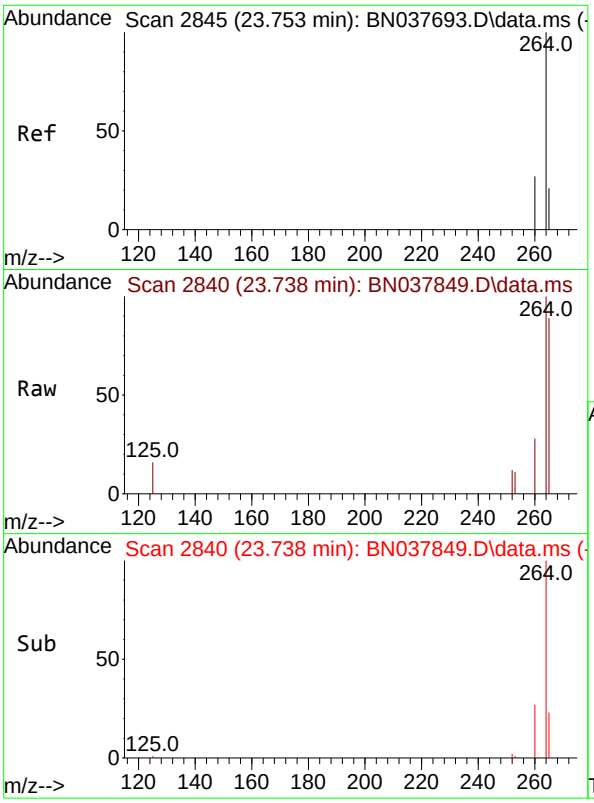


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.410 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:149 Resp: 3687

Ion	Ratio	Lower	Upper
149	100		
167	25.4	20.8	31.2
279	3.3	3.3	4.9



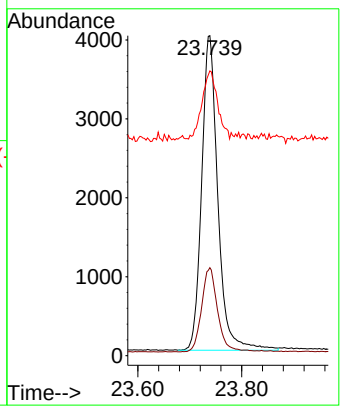


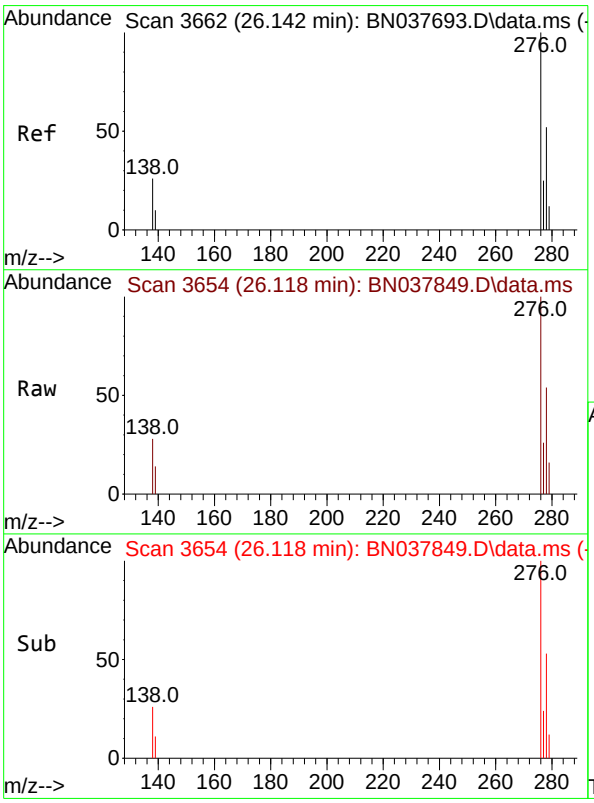
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 8600

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.8	32.8
265	89.0	39.4	59.2#

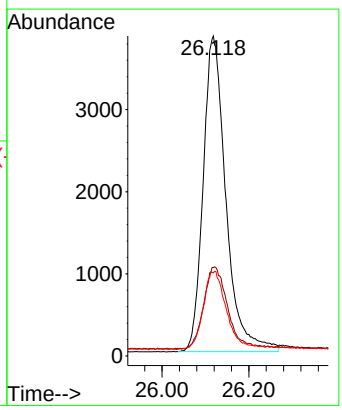


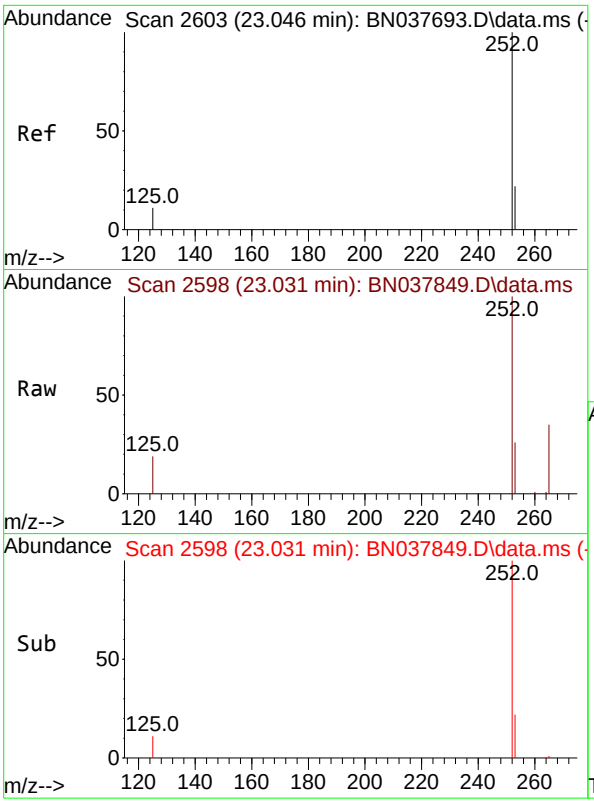


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.388 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.023 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:276 Resp: 14013

Ion	Ratio	Lower	Upper
276	100		
138	26.6	21.9	32.9
277	25.4	20.1	30.1



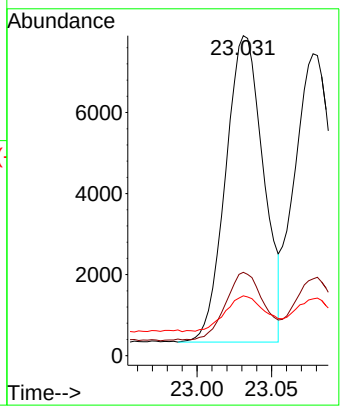


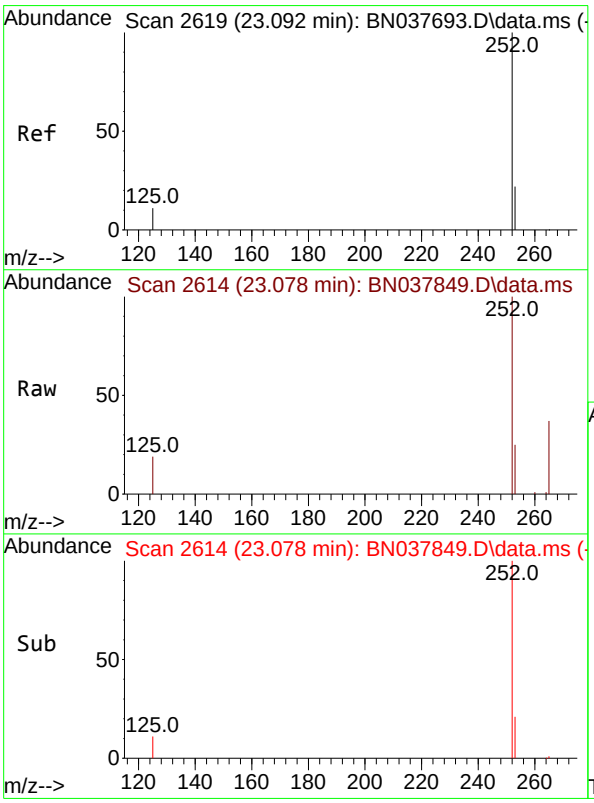
#37
Benzo(b)fluoranthene
Concen: 0.394 ng
RT: 23.031 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 13342

Ion	Ratio	Lower	Upper
252	100		
253	26.1	19.4	29.2
125	18.7	11.2	16.8#

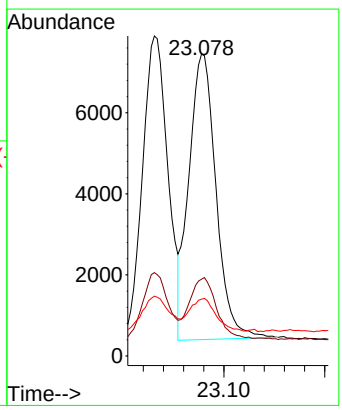


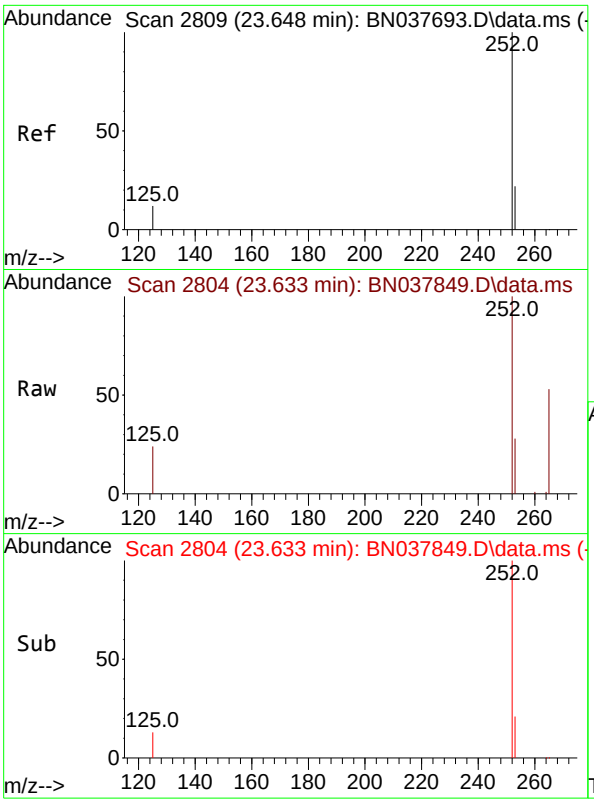


#38
Benzo(k)fluoranthene
Concen: 0.382 ng
RT: 23.078 min Scan# 2614
Delta R.T. -0.015 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:252 Resp: 13191

Ion	Ratio	Lower	Upper
252	100		
253	25.5	19.4	29.0
125	18.8	11.6	17.4#



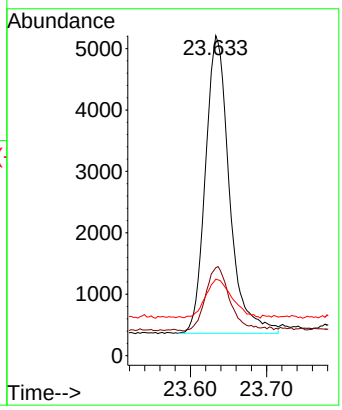


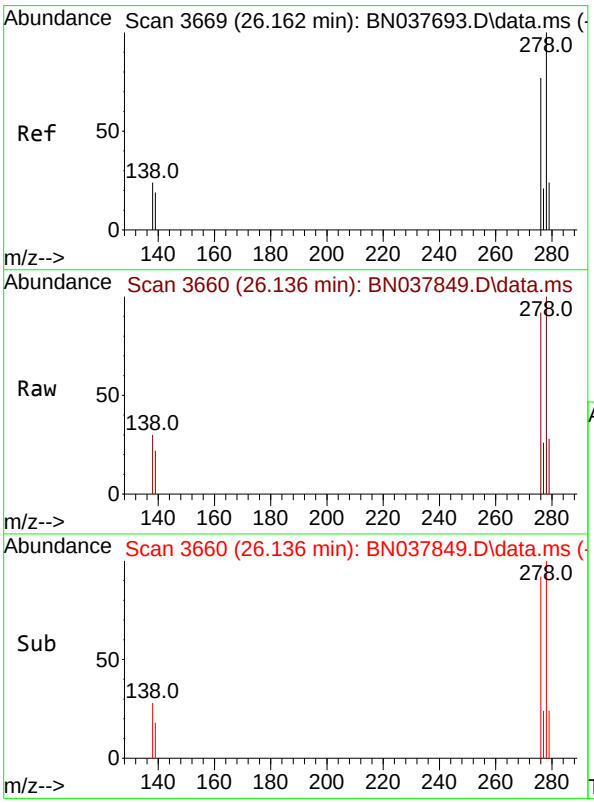
#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 23.633 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 10590

Ion	Ratio	Lower	Upper
252	100		
253	27.5	20.8	31.2
125	23.9	13.9	20.9#

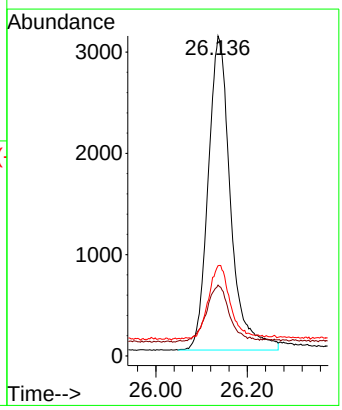


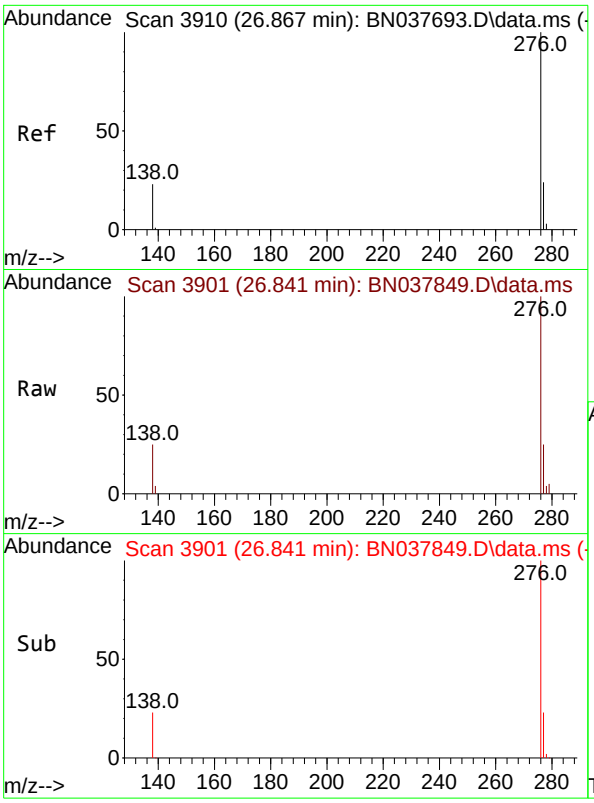


#40
Dibenzo(a,h)anthracene
Concen: 0.365 ng
RT: 26.136 min Scan# 3660
Delta R.T. -0.026 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:278 Resp: 10527

Ion	Ratio	Lower	Upper
278	100		
139	22.2	17.8	26.6
279	28.2	22.0	33.0



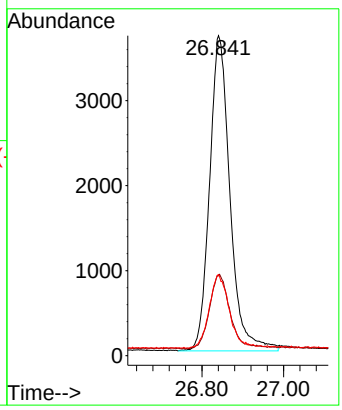


#41
Benzo(g,h,i)perylene
Concen: 0.398 ng
RT: 26.841 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 12869

Ion	Ratio	Lower	Upper
276	100		
277	25.0	20.6	31.0
138	25.3	20.2	30.2



Sample Results: **BN037849.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037849.D
Acq On : 22 Sep 2025 10:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 22 11:54:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	120	0.00
2		1,4-Dioxane	0.417	0.420	-0.7	120	0.00
3		n-Nitrosodimethylamine	0.544	0.507	6.8	108	0.00
4	S	2-Fluorophenol	0.918	0.898	2.2	121	0.00
5	S	Phenol-d6	1.191	1.119	6.0	116	0.00
6		bis(2-Chloroethyl)ether	1.064	1.050	1.3	118	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	120	-0.01
8	S	Nitrobenzene-d5	0.293	0.294	-0.3	124	-0.01
9		Naphthalene	1.093	1.054	3.6	118	-0.01
10		Hexachlorobutadiene	0.198	0.186	6.1	113	-0.01
11	SURR	2-Methylnaphthalene-d10	0.530	0.554	-4.5	134	-0.02
12		2-Methylnaphthalene	0.676	0.634	6.2	116	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	113	-0.01
14	S	2,4,6-Tribromophenol	0.104	0.116	-11.5	130	-0.01
15	S	2-Fluorobiphenyl	1.673	1.673	0.0	115	-0.01
16		Acenaphthylene	1.834	1.680	8.4	107	-0.01
17		Acenaphthene	1.240	1.189	4.1	111	-0.01
18		Fluorene	1.502	1.345	10.5	106	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.01
20		4,6-Dinitro-2-methylphenol	0.037	0.027	27.0#	82	-0.01
21		4-Bromophenyl-phenylether	0.261	0.256	1.9	101	-0.01
22		Hexachlorobenzene	0.300	0.329	-9.7	111	-0.01
23		Atrazine	0.166	0.147	11.4	96	-0.01
24		Pentachlorophenol	0.087	0.095	-9.2	127	-0.01
25		Phenanthrene	1.259	1.214	3.6	98	-0.01
26		Anthracene	1.116	1.020	8.6	95	-0.01
27	SURR	Fluoranthene-d10	1.004	0.954	5.0	101	-0.01
28		Fluoranthene	1.381	1.190	13.8	90	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	93	0.00
30		Pyrene	1.566	1.508	3.7	90	0.00
31	S	Terphenyl-d14	0.812	0.726	10.6	84	-0.01
32		Benzo(a)anthracene	1.395	1.291	7.5	89	0.00
33		Chrysene	1.496	1.457	2.6	90	0.00
34		Bis(2-ethylhexyl)phthalate	0.414	0.424	-2.4	105	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	96	-0.01
36		Indeno(1,2,3-cd)pyrene	1.681	1.629	3.1	101	-0.02
37		Benzo(b)fluoranthene	1.575	1.551	1.5	96	-0.01
38		Benzo(k)fluoranthene	1.606	1.534	4.5	97	-0.01
39	C	Benzo(a)pyrene	1.261	1.231	2.4	98	-0.01
40		Dibenzo(a,h)anthracene	1.342	1.224	8.8	97	-0.03
41		Benzo(g,h,i)perylene	1.506	1.496	0.7	99	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Evaluate Continuing Calibration Report

Sample Results: **BN037849.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037849.D
Acq On : 22 Sep 2025 10:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 22 11:54:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	120	0.00
2		1,4-Dioxane	0.400	0.403	-0.8	120	0.00
3		n-Nitrosodimethylamine	0.400	0.373	6.8	108	0.00
4	S	2-Fluorophenol	0.400	0.391	2.3	121	0.00
5	S	Phenol-d6	0.400	0.376	6.0	116	0.00
6		bis(2-Chloroethyl)ether	0.400	0.395	1.3	118	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	120	-0.01
8	S	Nitrobenzene-d5	0.400	0.403	-0.8	124	-0.01
9		Naphthalene	0.400	0.386	3.5	118	-0.01
10		Hexachlorobutadiene	0.400	0.377	5.8	113	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.418	-4.5	134	-0.02
12		2-Methylnaphthalene	0.400	0.375	6.3	116	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	113	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.443	-10.7	130	-0.01
15	S	2-Fluorobiphenyl	0.400	0.400	0.0	115	-0.01
16		Acenaphthylene	0.400	0.366	8.5	107	-0.01
17		Acenaphthene	0.400	0.383	4.3	111	-0.01
18		Fluorene	0.400	0.358	10.5	106	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	99	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.295	26.3#	82	-0.01
21		4-Bromophenyl-phenylether	0.400	0.393	1.8	101	-0.01
22		Hexachlorobenzene	0.400	0.439	-9.7	111	-0.01
23		Atrazine	0.400	0.354	11.5	96	-0.01
24		Pentachlorophenol	0.400	0.437	-9.2	127	-0.01
25		Phenanthrene	0.400	0.386	3.5	98	-0.01
26		Anthracene	0.400	0.366	8.5	95	-0.01
27	SURR	Fluoranthene-d10	0.400	0.380	5.0	101	-0.01
28		Fluoranthene	0.400	0.345	13.8	90	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	93	0.00
30		Pyrene	0.400	0.385	3.8	90	0.00
31	S	Terphenyl-d14	0.400	0.358	10.5	84	-0.01
32		Benzo(a)anthracene	0.400	0.370	7.5	89	0.00
33		Chrysene	0.400	0.389	2.8	90	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.410	-2.5	105	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	96	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.388	3.0	101	-0.02
37		Benzo(b)fluoranthene	0.400	0.394	1.5	96	-0.01
38		Benzo(k)fluoranthene	0.400	0.382	4.5	97	-0.01
39	C	Benzo(a)pyrene	0.400	0.391	2.3	98	-0.01
40		Dibenzo(a,h)anthracene	0.400	0.365	8.8	97	-0.03
41		Benzo(g,h,i)perylene	0.400	0.398	0.5	99	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3097

Instrument ID: BNA_N Calibration Date/Time: 09/22/2025 16:39

Lab File ID: BN037859.D Init. Calib. Date(s): 09/11/2025 09/11/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:56 13:33

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.557		5.1	50.0
Fluoranthene-d10	1.004	0.898		-10.6	50.0
2-Fluorophenol	0.918	0.869		-5.3	50.0
Phenol-d6	1.191	1.146		-3.8	50.0
Nitrobenzene-d5	0.293	0.293		0.0	50.0
2-Fluorobiphenyl	1.673	1.607		-3.9	50.0
2,4,6-Tribromophenol	0.104	0.108		3.8	50.0
Terphenyl-d14	0.812	0.784		-3.4	50.0
1,4-Dioxane	0.417	0.395		-5.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037859.D
Acq On : 22 Sep 2025 16:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 22 17:47:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

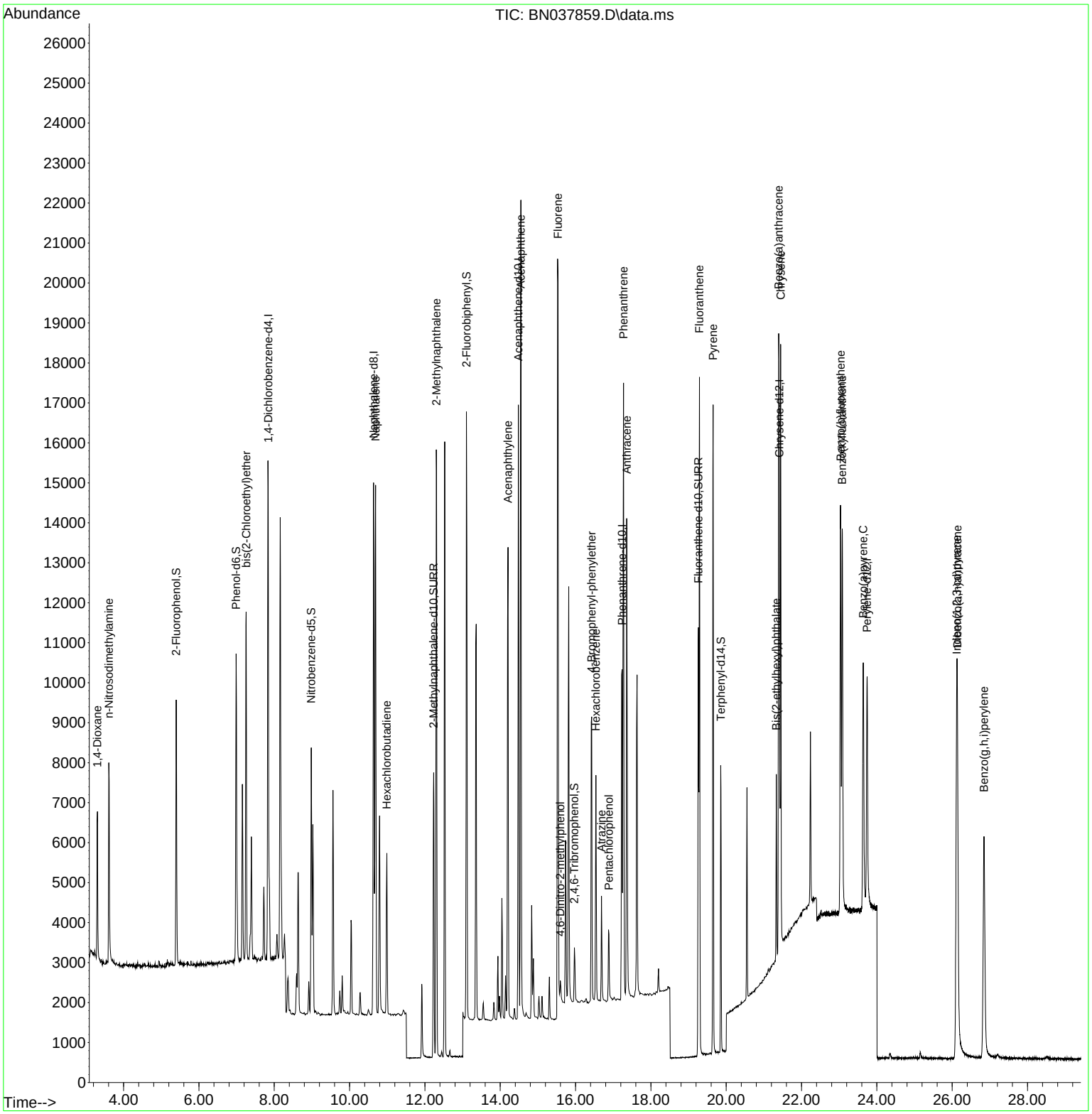
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.840	152	6093	0.400	ng		0.00
7) Naphthalene-d8	10.637	136	17206	0.400	ng		-0.01
13) Acenaphthene-d10	14.484	164	8151	0.400	ng		-0.01
19) Phenanthrene-d10	17.235	188	13180	0.400	ng		# 0.00
29) Chrysene-d12	21.411	240	8747	0.400	ng		# 0.00
35) Perylene-d12	23.741	264	8334	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.399	112	5297	0.379	ng		0.00
5) Phenol-d6	6.988	99	6980	0.385	ng		0.00
8) Nitrobenzene-d5	8.982	82	5049	0.401	ng		-0.01
11) 2-Methylnaphthalene-d10	12.232	152	9581	0.420	ng		-0.01
14) 2,4,6-Tribromophenol	15.969	330	883	0.415	ng		-0.01
15) 2-Fluorobiphenyl	13.105	172	13098	0.384	ng		-0.01
27) Fluoranthene-d10	19.262	212	11839	0.358	ng		0.00
31) Terphenyl-d14	19.856	244	6860	0.386	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.304	88	2405	0.379	ng		98
3) n-Nitrosodimethylamine	3.608	42	3273	0.395	ng	#	99
6) bis(2-Chloroethyl)ether	7.255	93	6373	0.393	ng		99
9) Naphthalene	10.690	128	17964	0.382	ng		99
10) Hexachlorobutadiene	10.989	225	3100	0.364	ng	#	98
12) 2-Methylnaphthalene	12.303	142	10998	0.378	ng		99
16) Acenaphthylene	14.206	152	13513	0.362	ng		100
17) Acenaphthene	14.548	154	9564	0.378	ng		96
18) Fluorene	15.535	166	11044	0.361	ng		99
20) 4,6-Dinitro-2-methylph...	15.597	198	351	0.288	ng	#	61
21) 4-Bromophenyl-phenylether	16.428	248	3270	0.380	ng	#	96
22) Hexachlorobenzene	16.540	284	4334	0.438	ng		97
23) Atrazine	16.689	200	2035	0.372	ng		94
24) Pentachlorophenol	16.888	266	1020	0.355	ng		99
25) Phenanthrene	17.272	178	15736	0.379	ng		99
26) Anthracene	17.359	178	13062	0.355	ng		99
28) Fluoranthene	19.290	202	14576	0.320	ng		99
30) Pyrene	19.652	202	14184	0.414	ng		100
32) Benzo(a)anthracene	21.393	228	11168	0.366	ng		100
33) Chrysene	21.447	228	12595	0.385	ng		99
34) Bis(2-ethylhexyl)phtha...	21.330	149	4030	0.446	ng		99
36) Indeno(1,2,3-cd)pyrene	26.118	276	13892	0.397	ng		99
37) Benzo(b)fluoranthene	23.037	252	13229	0.403	ng	#	94
38) Benzo(k)fluoranthene	23.081	252	13409	0.401	ng	#	94
39) Benzo(a)pyrene	23.639	252	10067	0.383	ng	#	89
40) Dibenzo(a,h)anthracene	26.139	278	10511	0.376	ng		99
41) Benzo(g,h,i)perylene	26.846	276	12358	0.394	ng		99

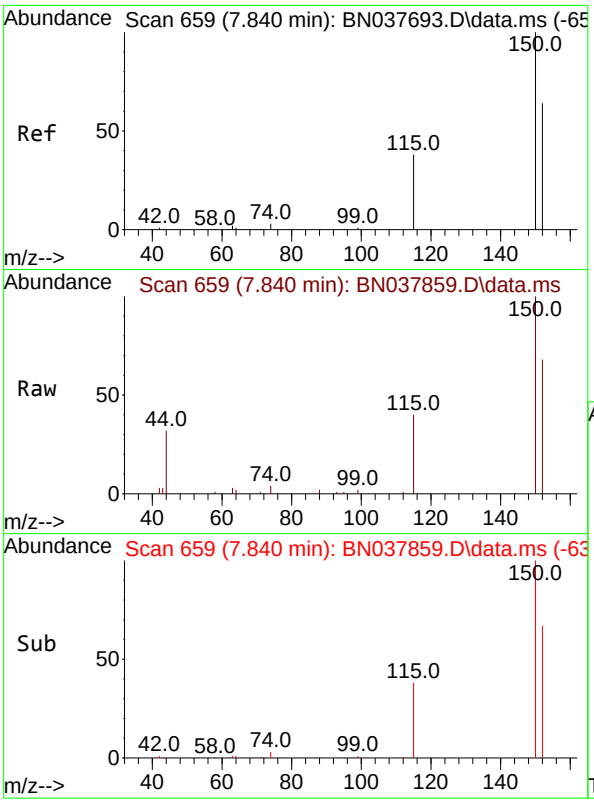
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037859.D
Acq On : 22 Sep 2025 16:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 22 17:47:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



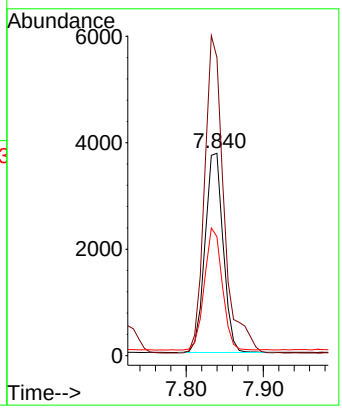


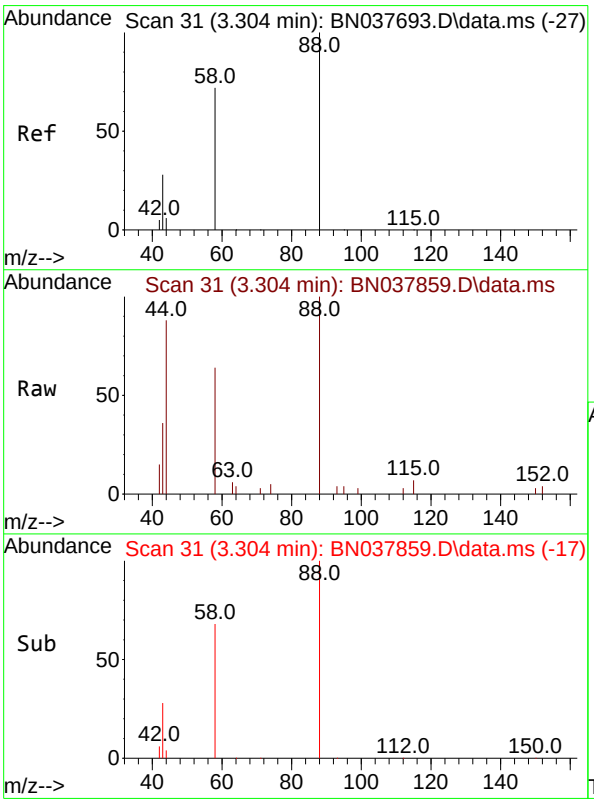
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 6093

Ion	Ratio	Lower	Upper
152	100		
150	147.4	124.5	186.7
115	58.8	49.2	73.8

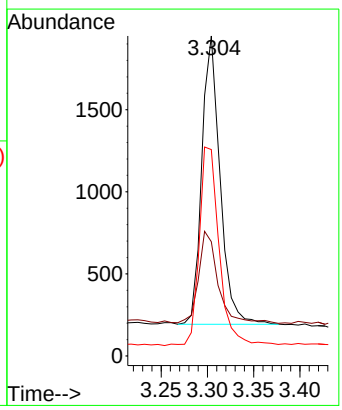


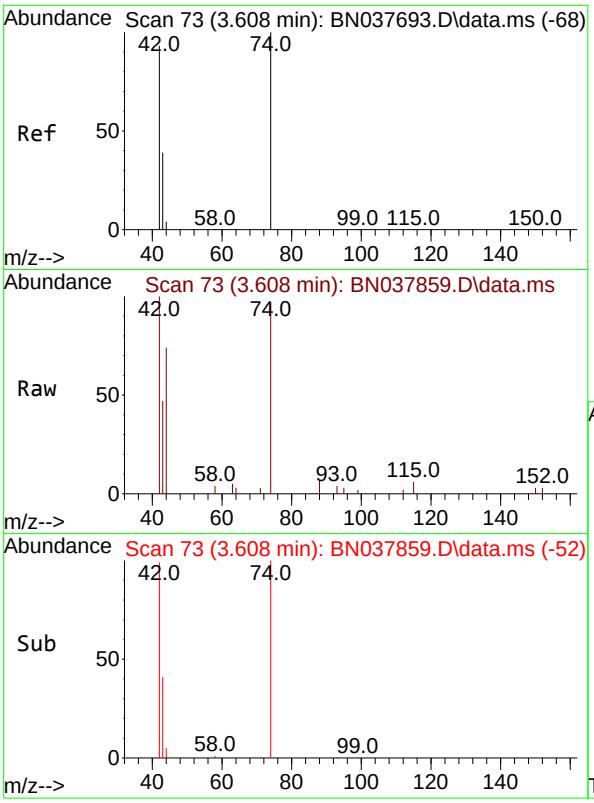


#2
1,4-Dioxane
Concen: 0.379 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion: 88 Resp: 2405

Ion	Ratio	Lower	Upper
88	100		
43	33.8	26.8	40.2
58	75.4	61.9	92.9



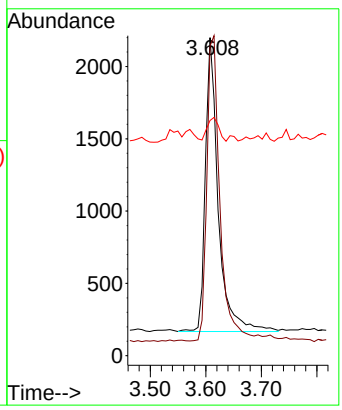


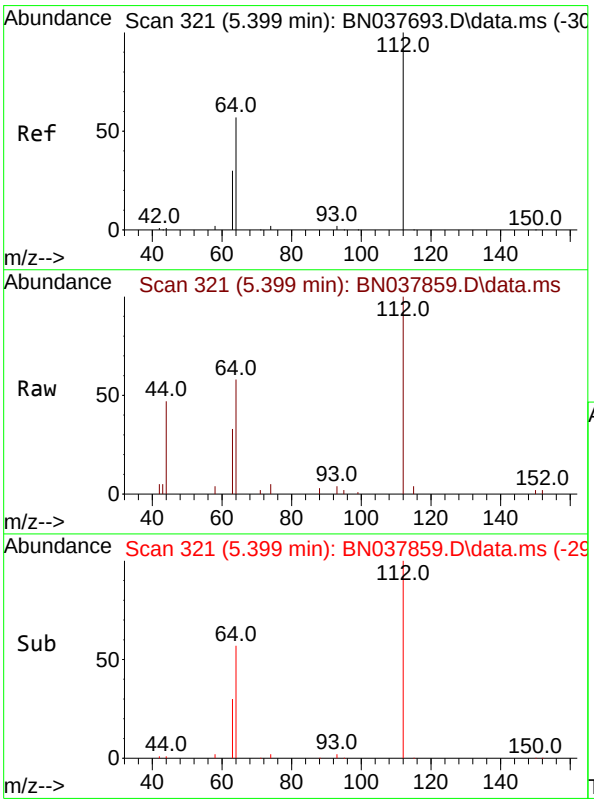
#3
n-Nitrosodimethylamine
Concen: 0.395 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 3273

Ion	Ratio	Lower	Upper
42	100		
74	107.8	86.0	129.0
44	7.1	8.4	12.6#

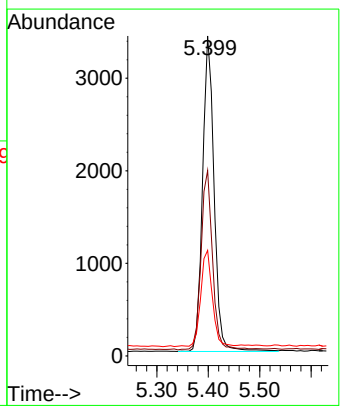


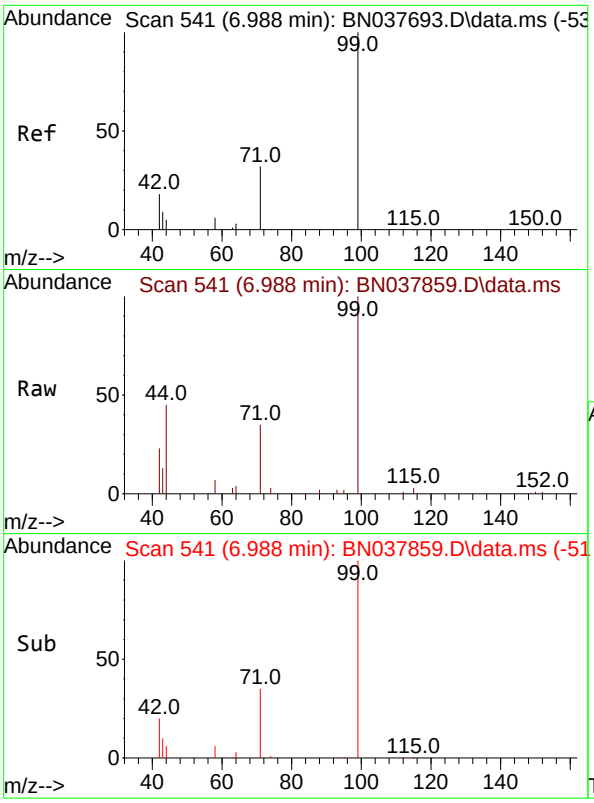


#4
2-Fluorophenol
Concen: 0.379 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:112 Resp: 5297

Ion	Ratio	Lower	Upper
112	100		
64	56.9	44.9	67.3
63	30.7	24.7	37.1



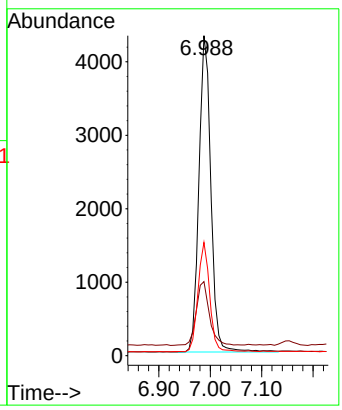


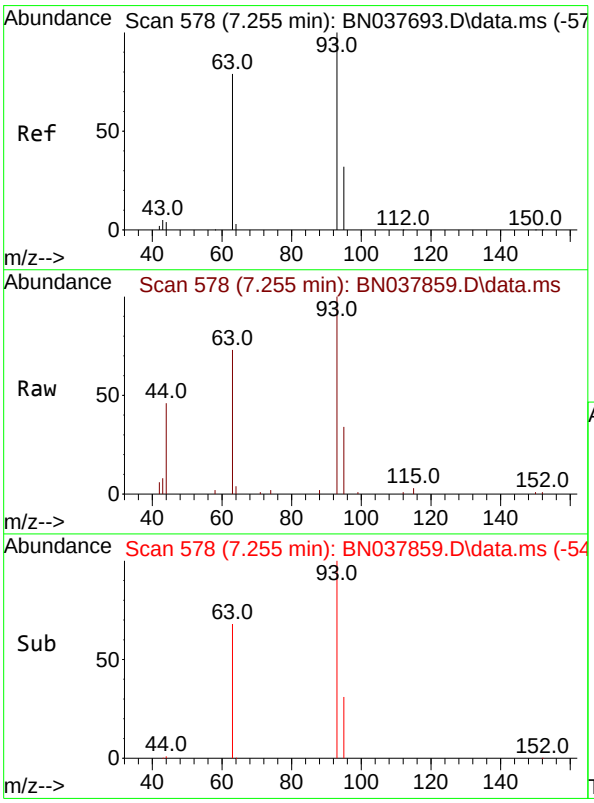
#5
Phenol-d6
Concen: 0.385 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 6980

Ion	Ratio	Lower	Upper
99	100		
42	22.1	16.6	24.8
71	33.7	26.7	40.1

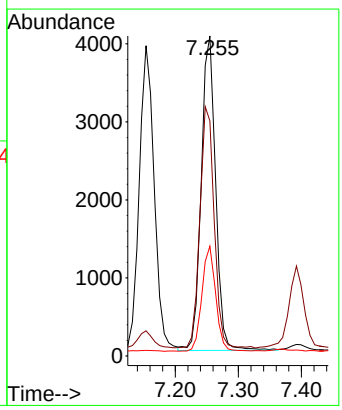


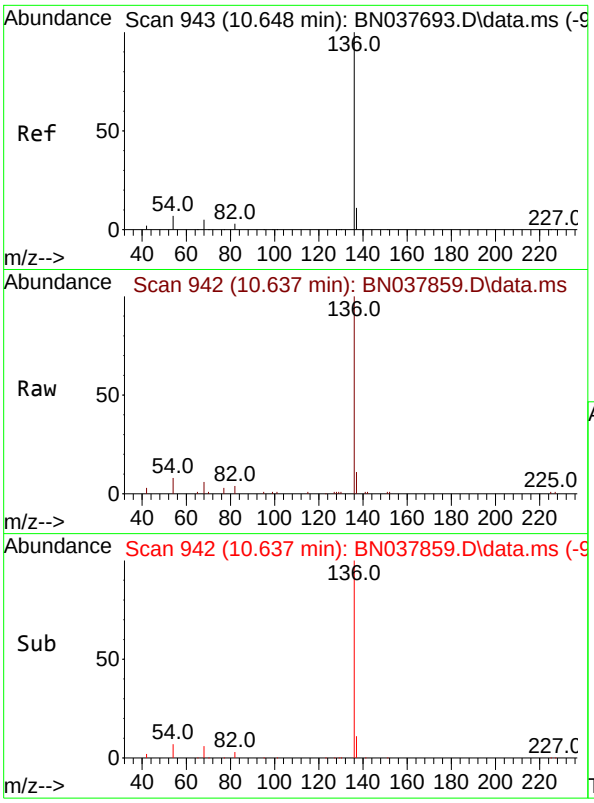


#6
bis(2-Chloroethyl)ether
Concen: 0.393 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion: 93 Resp: 6373

Ion	Ratio	Lower	Upper
93	100		
63	76.0	60.6	90.8
95	31.8	26.0	39.0



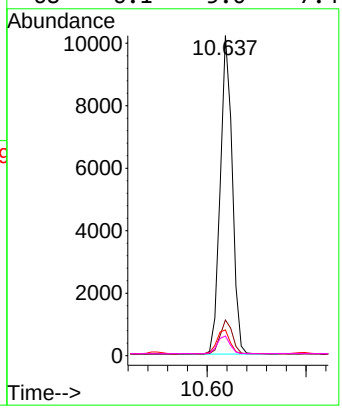


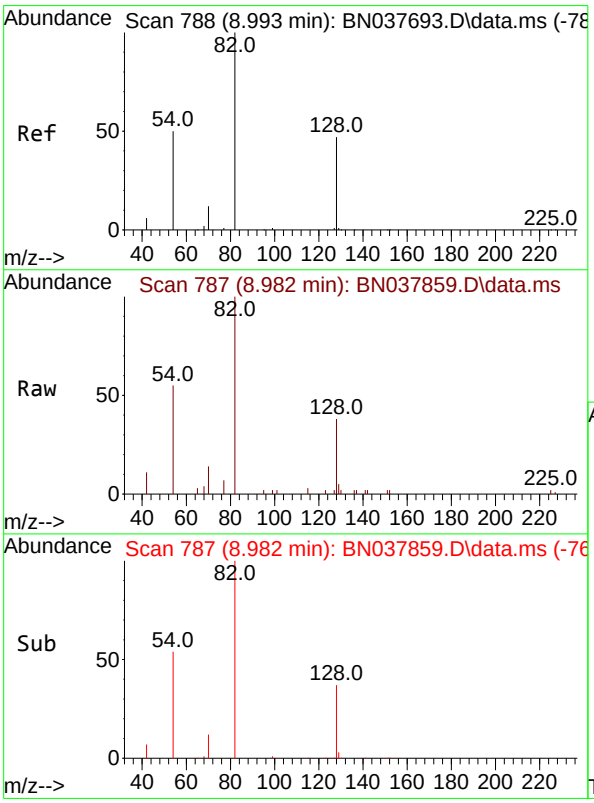
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 17206

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.1	13.7
54	8.1	6.3	9.5
68	6.1	5.0	7.4

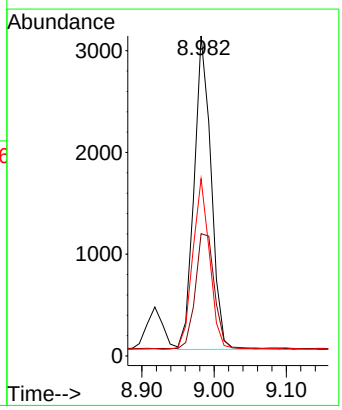


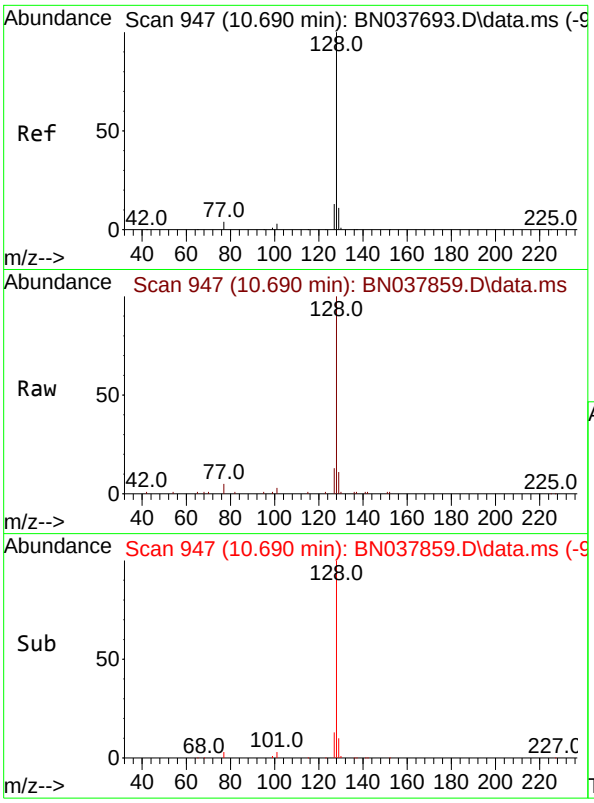


#8
Nitrobenzene-d5
Concen: 0.401 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion: 82 Resp: 5049

Ion	Ratio	Lower	Upper
82	100		
128	38.2	38.3	57.5#
54	55.4	41.4	62.2



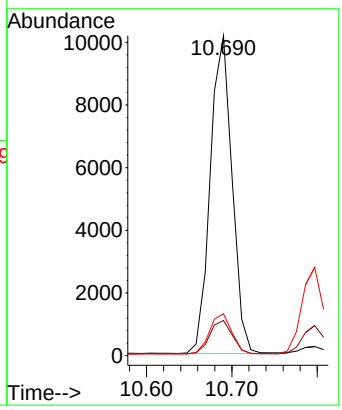


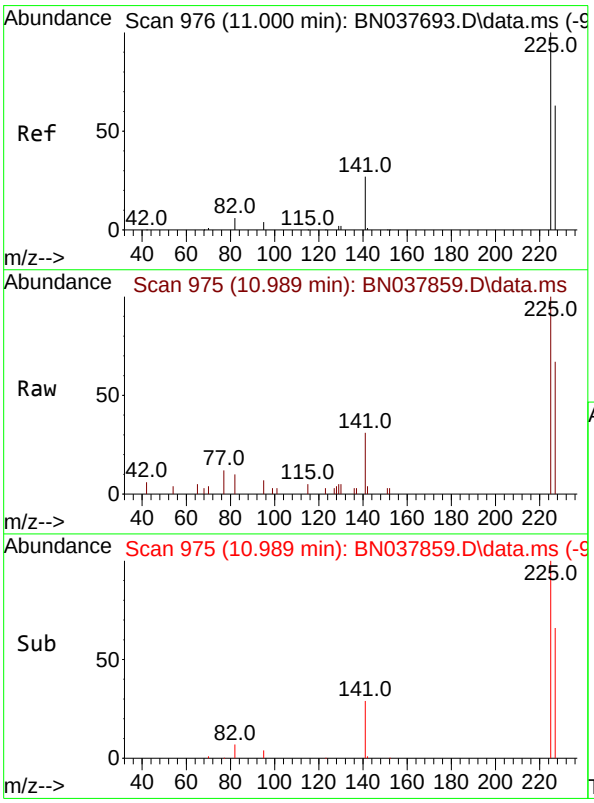
#9
Naphthalene
Concen: 0.382 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 17964

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.1	13.7
127	13.1	10.9	16.3

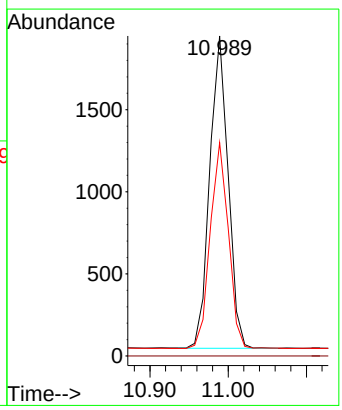


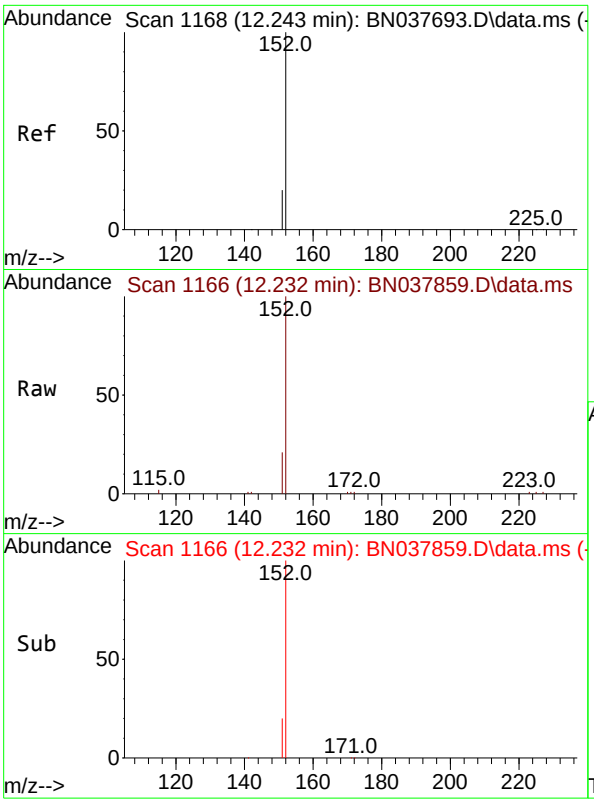


#10
Hexachlorobutadiene
Concen: 0.364 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:225 Resp: 3100

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.4	50.9	76.3



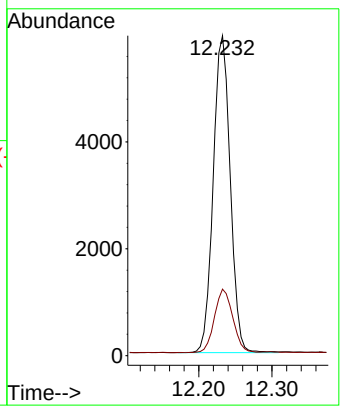


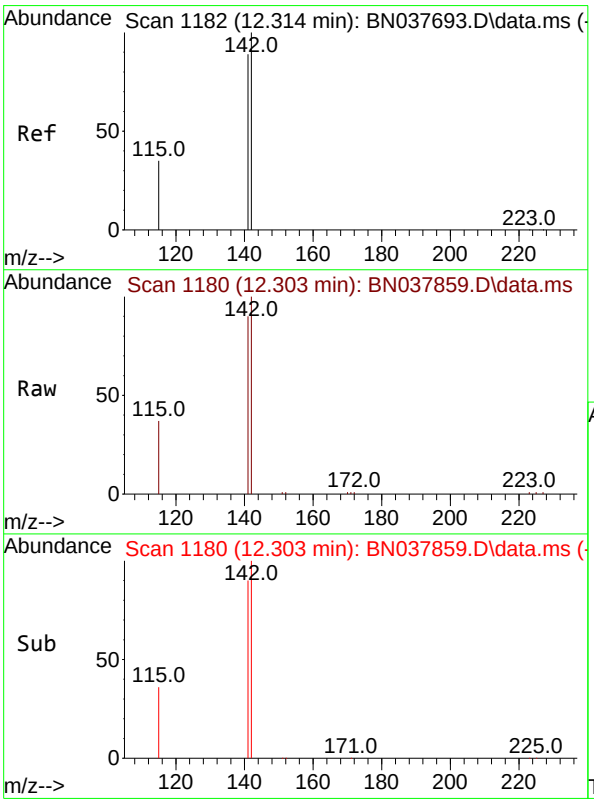
#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 9581

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.0	25.6

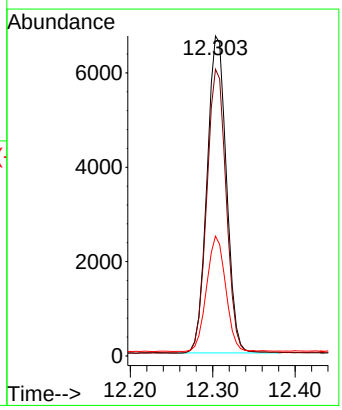


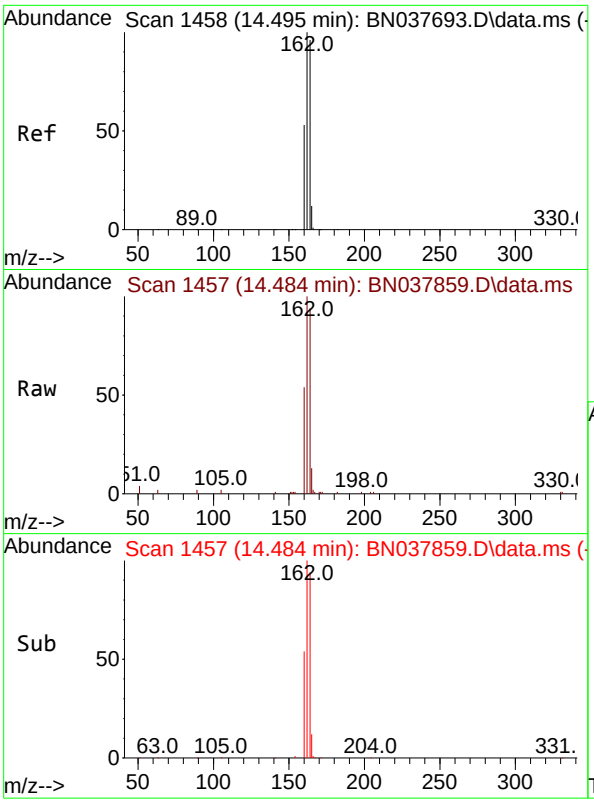


#12
2-Methylnaphthalene
Concen: 0.378 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:142 Resp: 10998

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.6	107.4
115	37.4	28.6	43.0



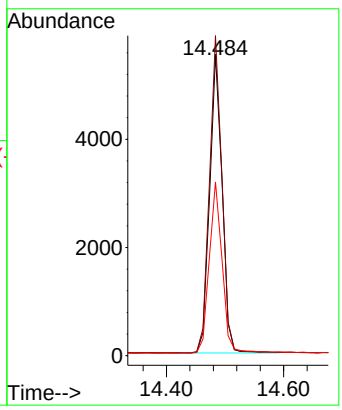


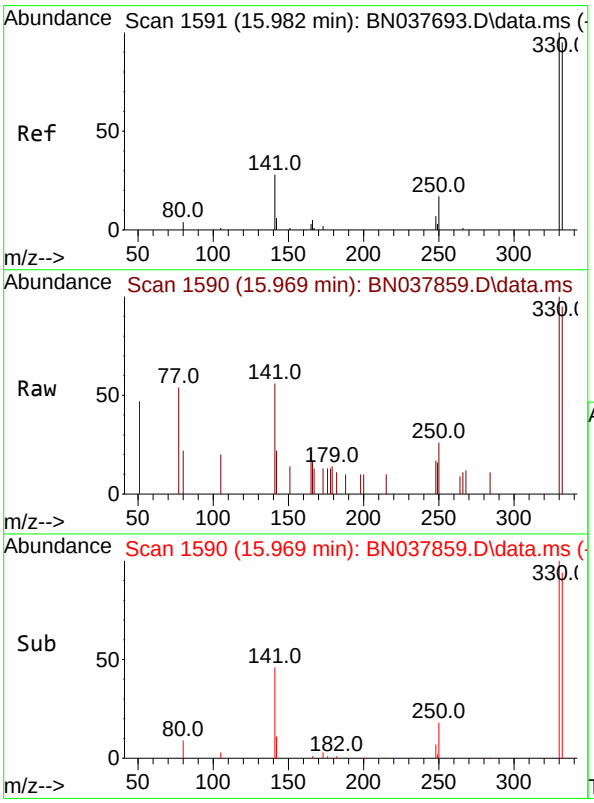
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 8151

Ion	Ratio	Lower	Upper
164	100		
162	106.3	83.1	124.7
160	57.7	44.3	66.5

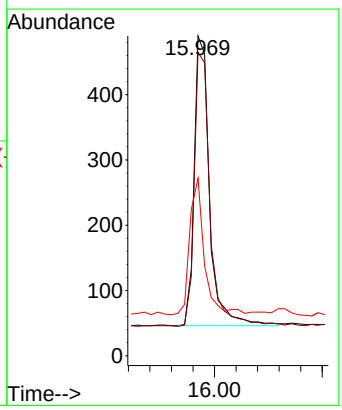


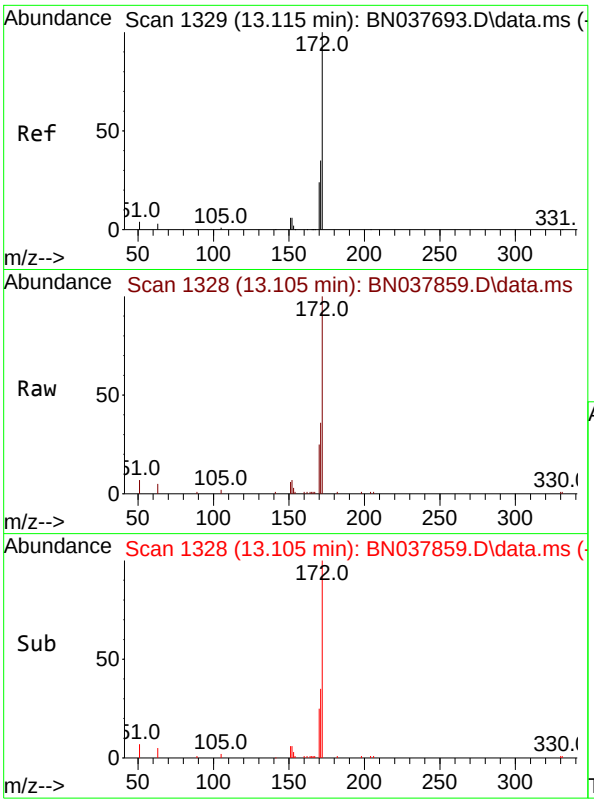


#14
2,4,6-Tribromophenol
Concen: 0.415 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:330 Resp: 883

Ion	Ratio	Lower	Upper
330	100		
332	97.5	75.3	112.9
141	44.7	35.0	52.4



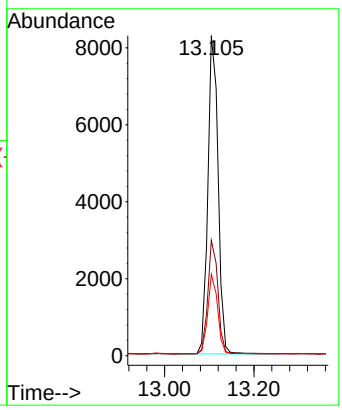


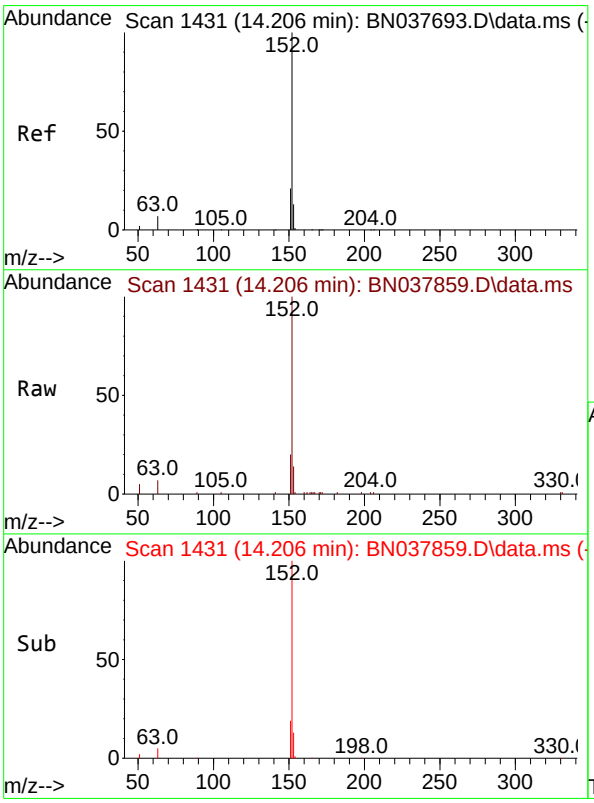
#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 13098

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	25.5	19.8	29.8

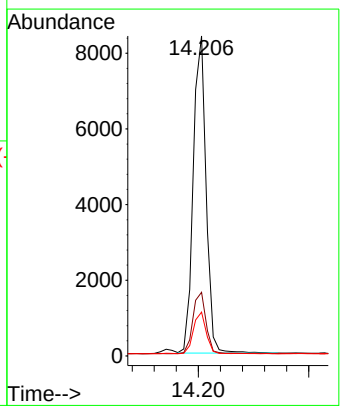


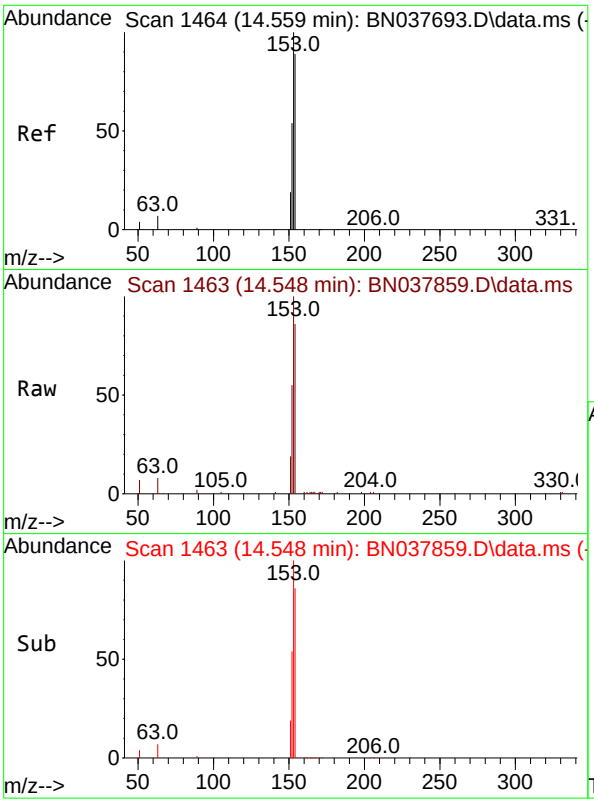


#16
Acenaphthylene
Concen: 0.362 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:152 Resp: 13513

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.0	10.4	15.6



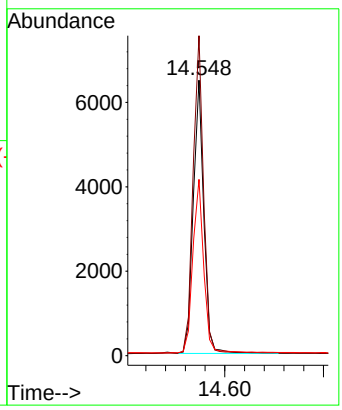


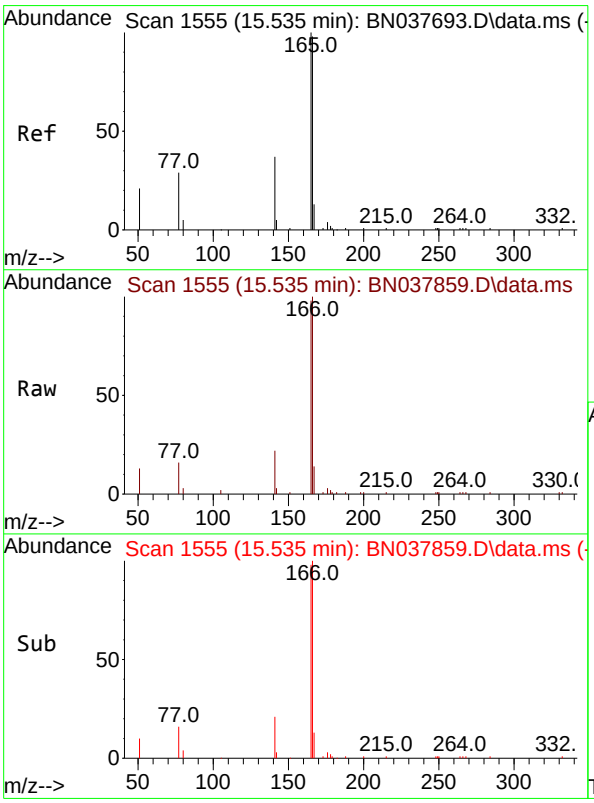
#17
Acenaphthene
Concen: 0.378 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 9564

Ion	Ratio	Lower	Upper
154	100		
153	115.6	89.8	134.8
152	66.0	50.2	75.2

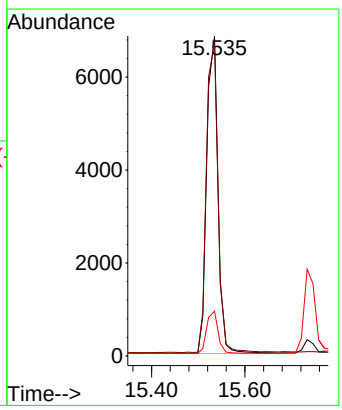


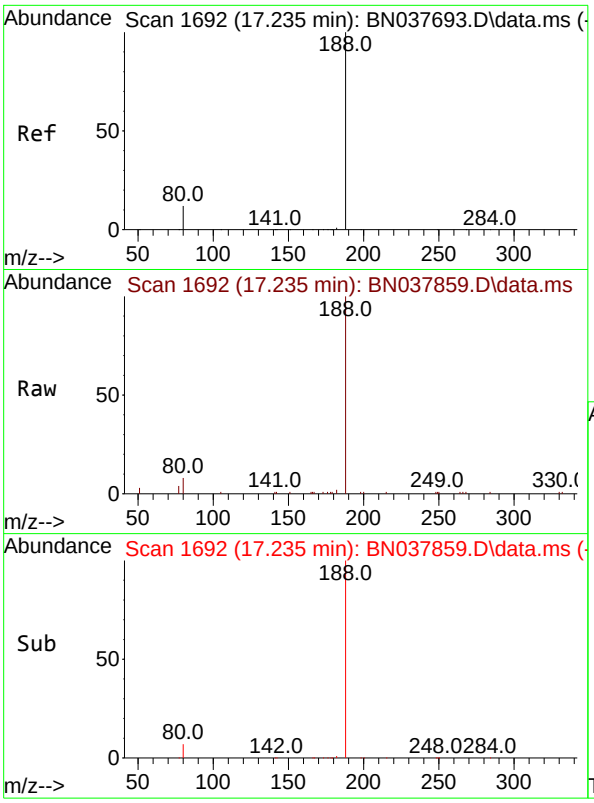


#18
Fluorene
Concen: 0.361 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:166 Resp: 11044

Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.6	119.4
167	13.9	10.6	16.0



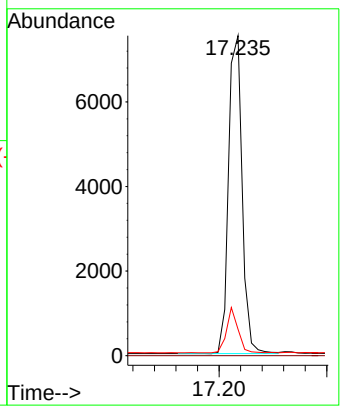


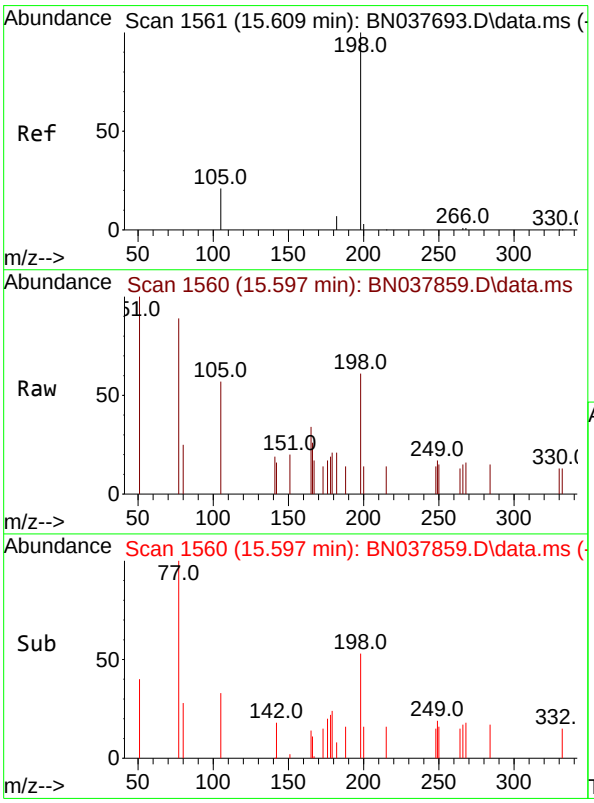
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 13180

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.2	10.6	15.8#

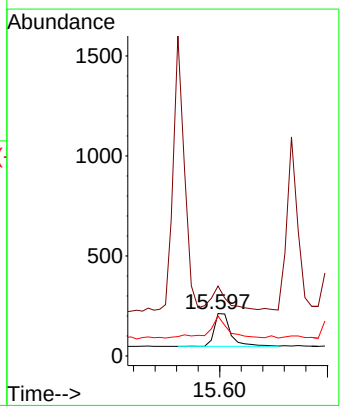


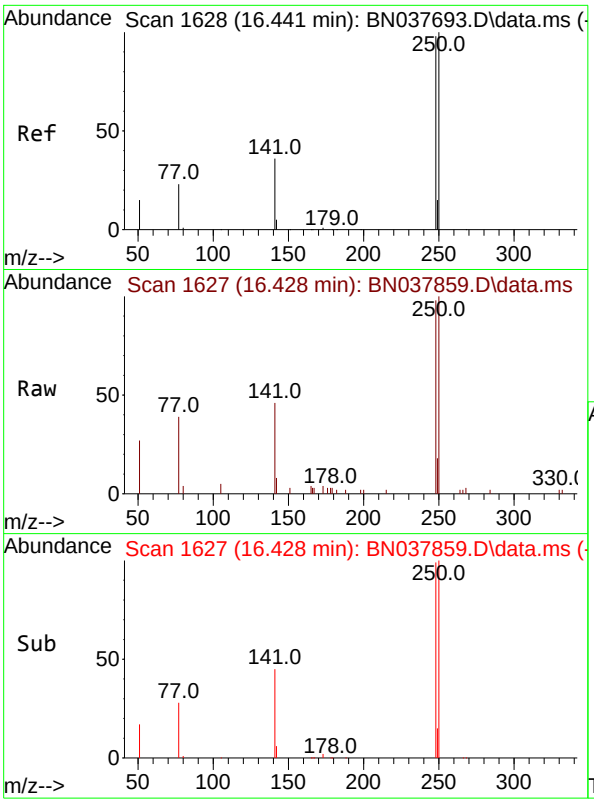


#20
4,6-Dinitro-2-methylphenol
Concen: 0.288 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:198 Resp: 351

Ion	Ratio	Lower	Upper
198	100		
51	165.1	95.1	142.7#
105	93.9	53.8	80.6#



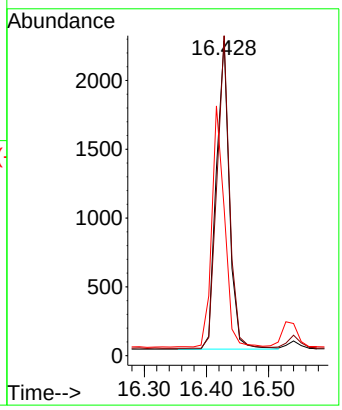


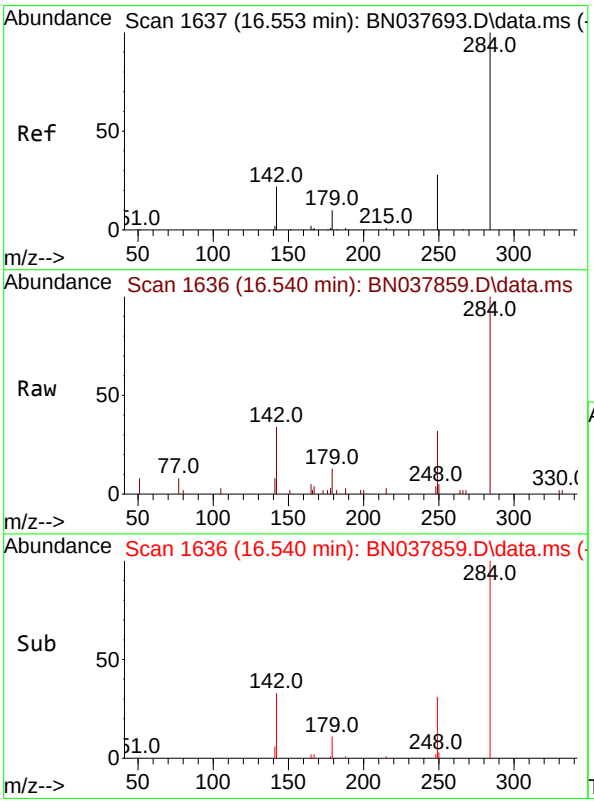
#21
4-Bromophenyl-phenylether
Concen: 0.380 ng
RT: 16.428 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 3270

Ion	Ratio	Lower	Upper
248	100		
250	101.6	81.5	122.3
141	46.9	30.8	46.2#

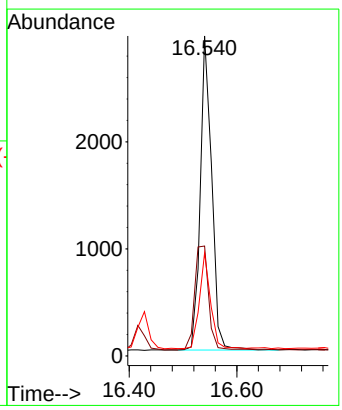


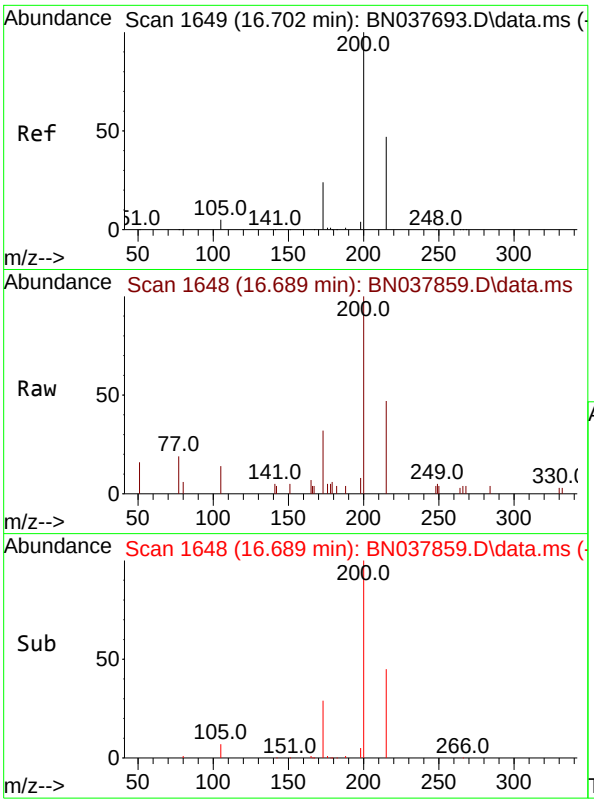


#22
Hexachlorobenzene
Concen: 0.438 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:284 Resp: 4334

Ion	Ratio	Lower	Upper
284	100		
142	40.2	30.9	46.3
249	29.6	24.8	37.2



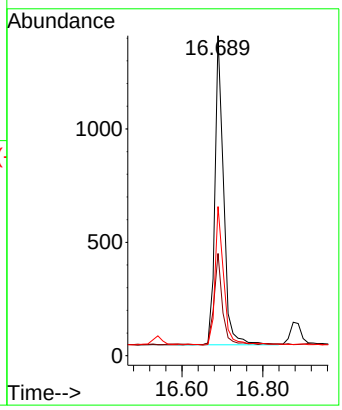


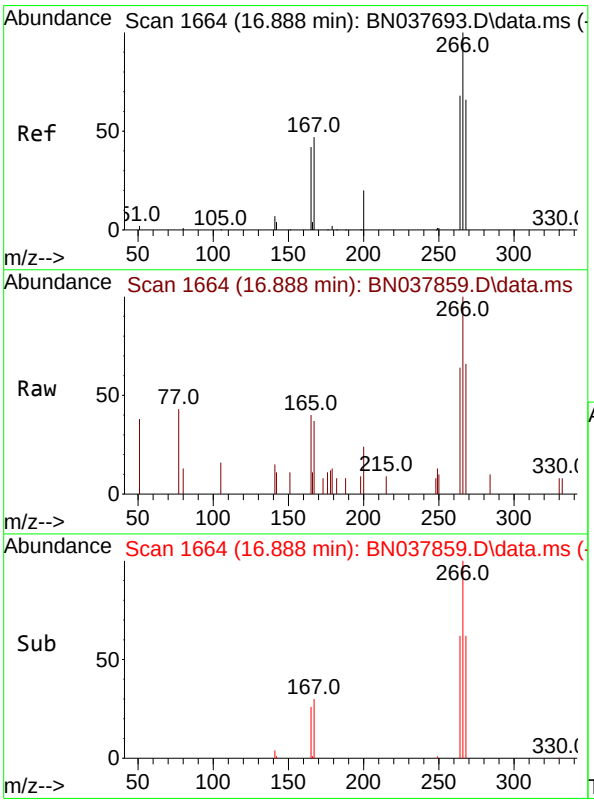
#23
Atrazine
Concen: 0.372 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 2035

Ion	Ratio	Lower	Upper
200	100		
173	32.0	21.4	32.2
215	46.6	39.2	58.8

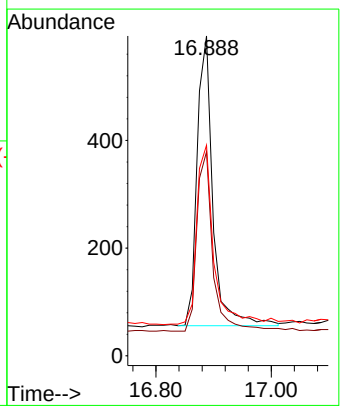


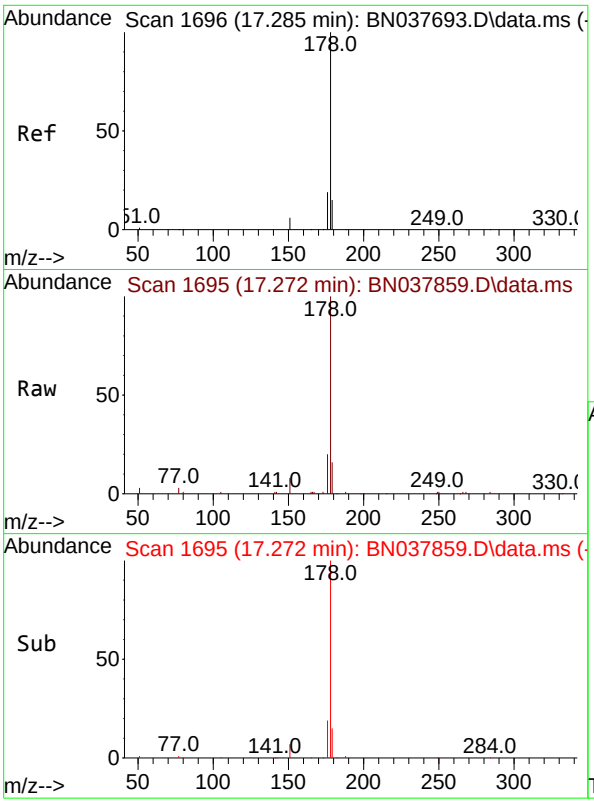


#24
Pentachlorophenol
Concen: 0.355 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:266 Resp: 1020

Ion	Ratio	Lower	Upper
266	100		
264	63.3	51.6	77.4
268	66.8	53.2	79.8



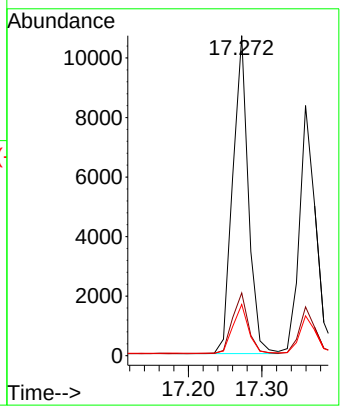


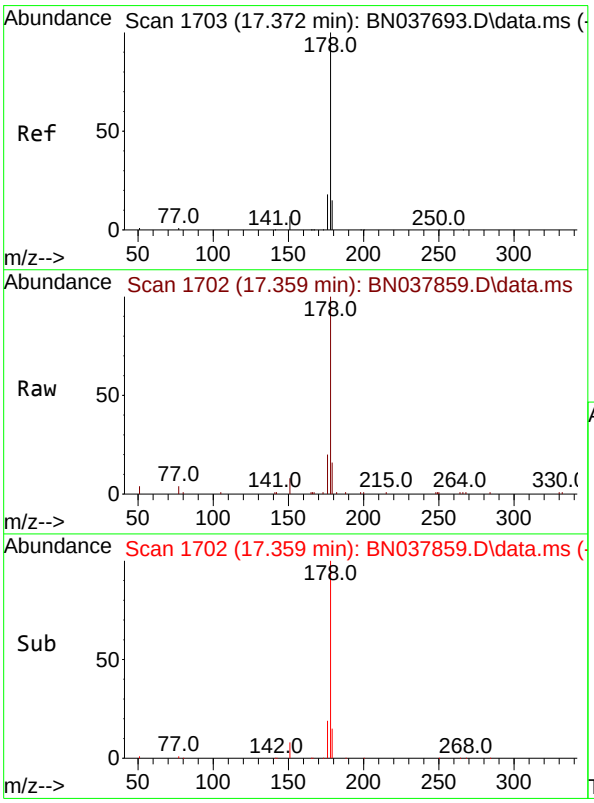
#25
Phenanthrene
Concen: 0.379 ng
RT: 17.272 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 15736

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.3	22.9
179	15.5	12.2	18.2

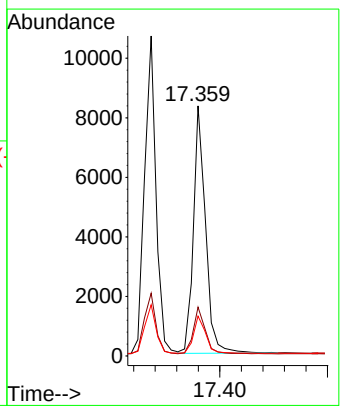


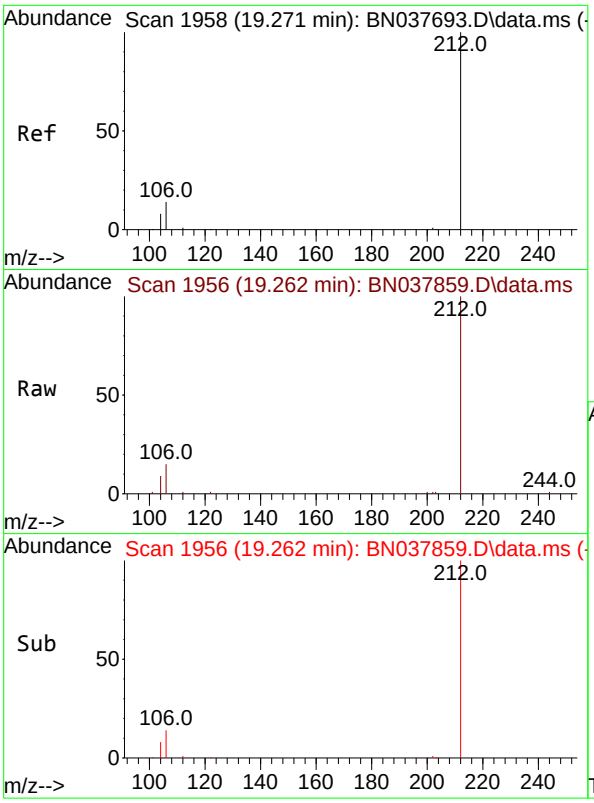


#26
Anthracene
Concen: 0.355 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:178 Resp: 13062

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.6	22.0
179	15.2	12.2	18.4



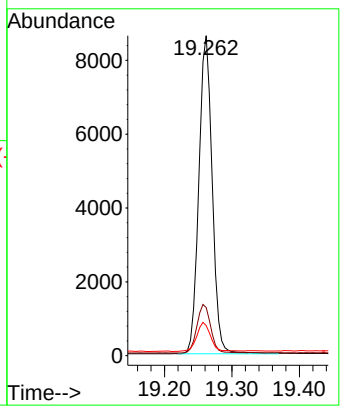


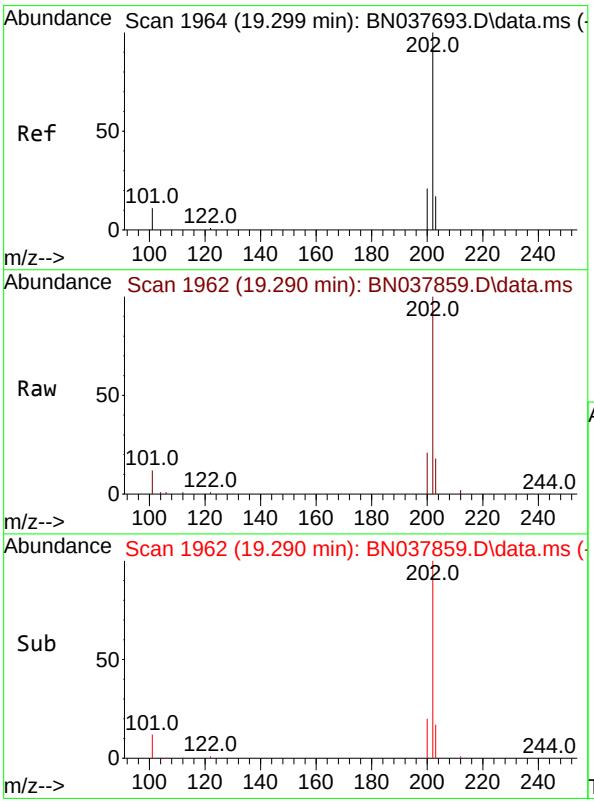
#27
Fluoranthene-d10
Concen: 0.358 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 11839

Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	9.4	6.9	10.3

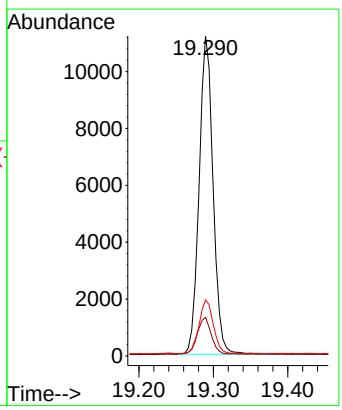


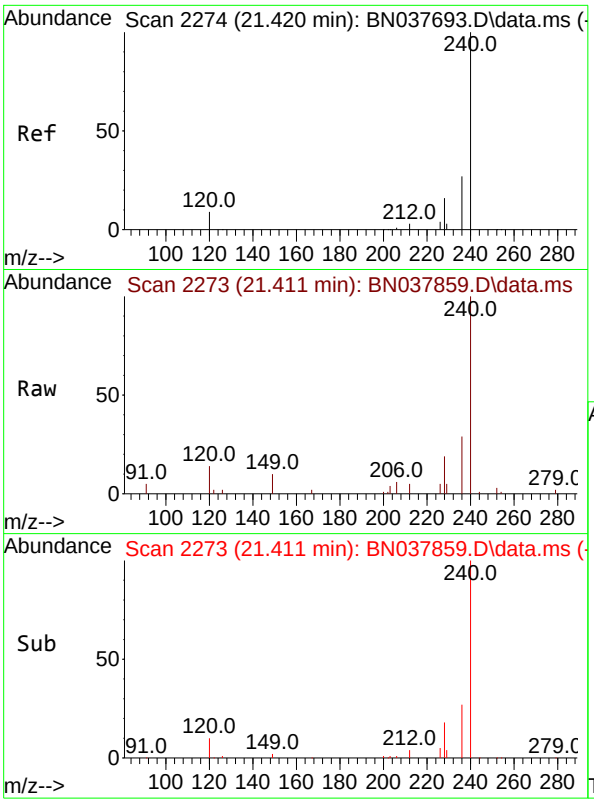


#28
Fluoranthene
Concen: 0.320 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.010 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:202 Resp: 14576

Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.3	13.9
203	17.1	13.7	20.5



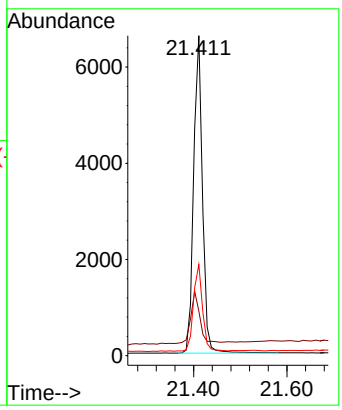


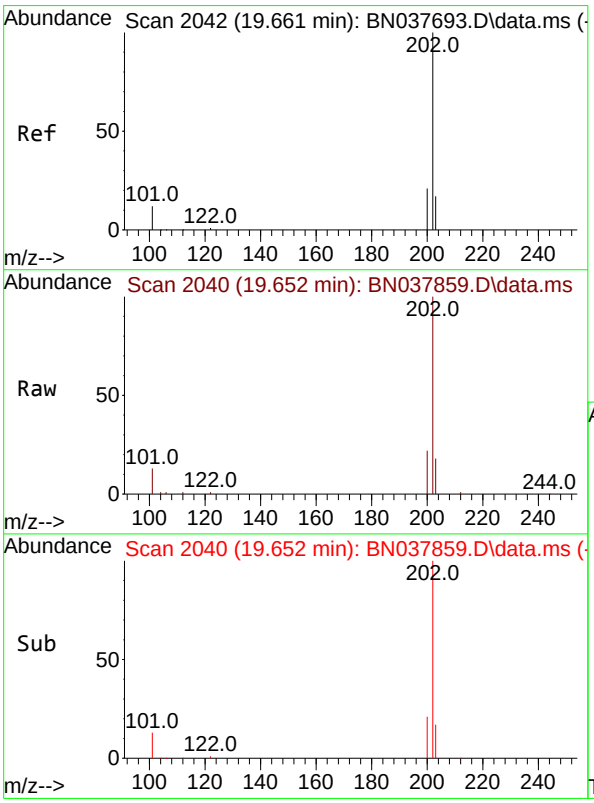
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 8747

Ion	Ratio	Lower	Upper
240	100		
120	13.9	9.2	13.8#
236	28.5	22.6	33.8

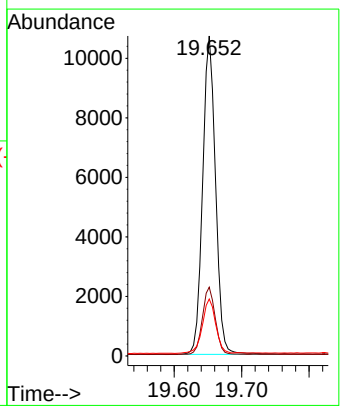


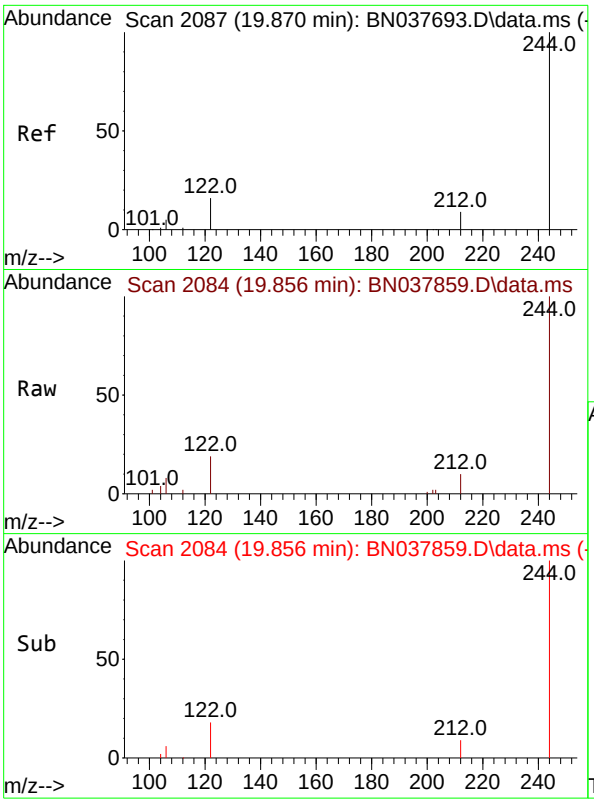


#30
Pyrene
Concen: 0.414 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.010 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:202 Resp: 14184

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.7	14.3	21.5



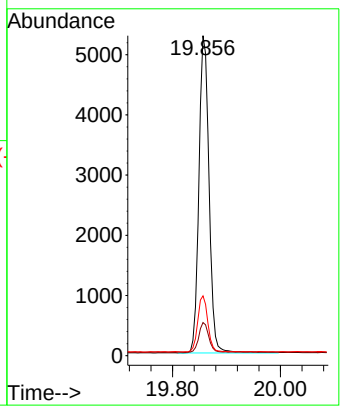


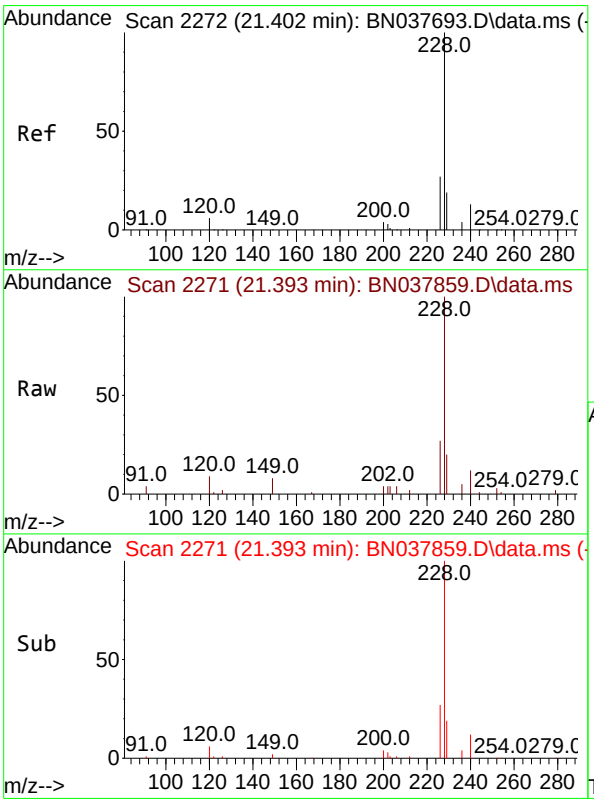
#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.856 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 6860

Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.5	11.3
122	18.7	13.2	19.8

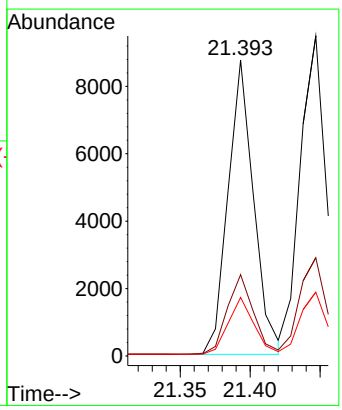


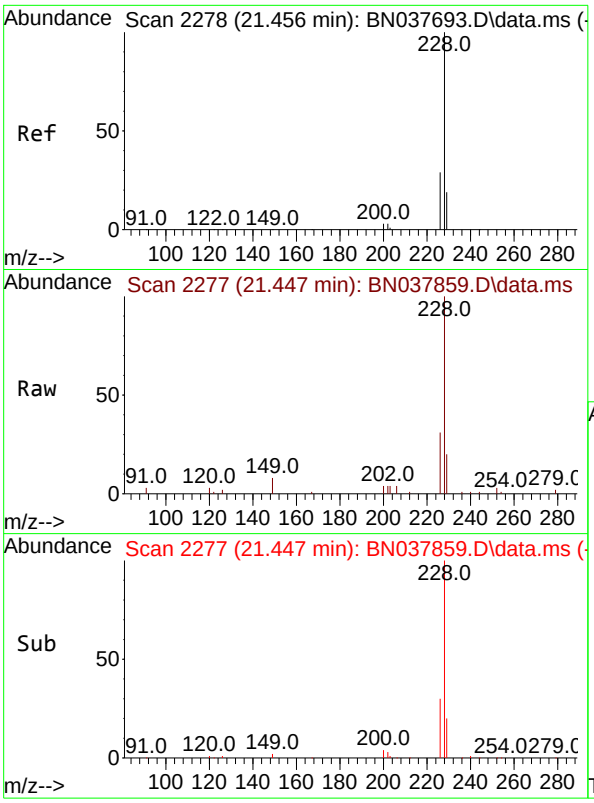


#32
Benzo(a)anthracene
Concen: 0.366 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:228 Resp: 11168

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.2	33.2
229	19.8	15.8	23.6



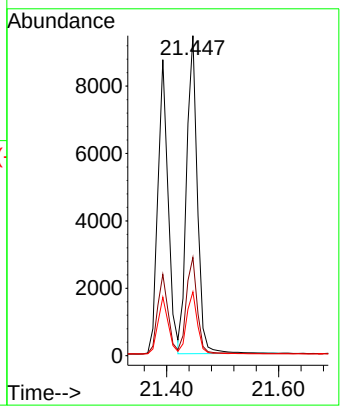


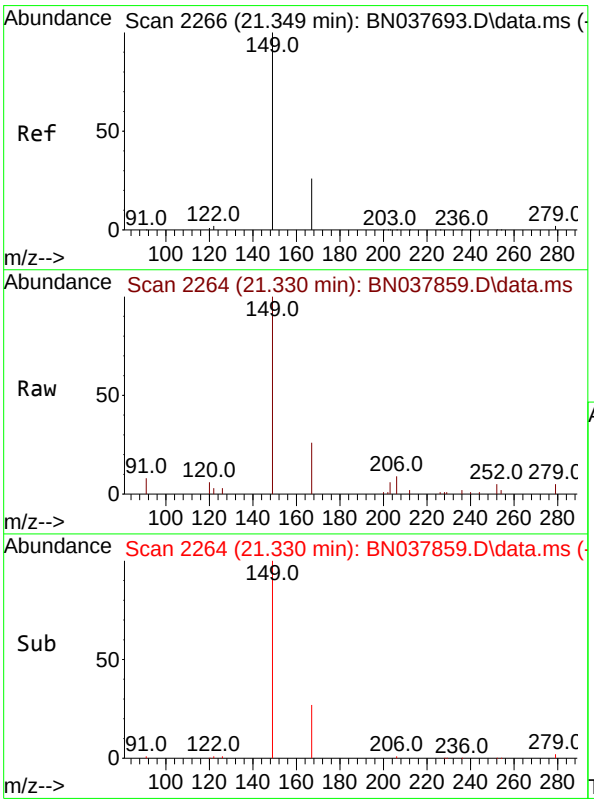
#33
Chrysene
Concen: 0.385 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 12595

Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.5	35.3
229	20.0	15.9	23.9

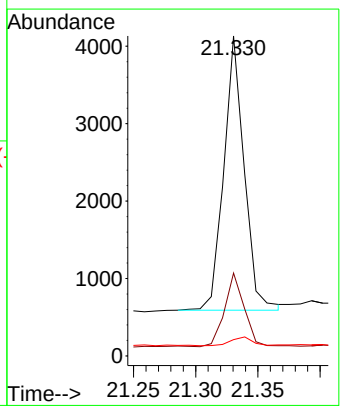


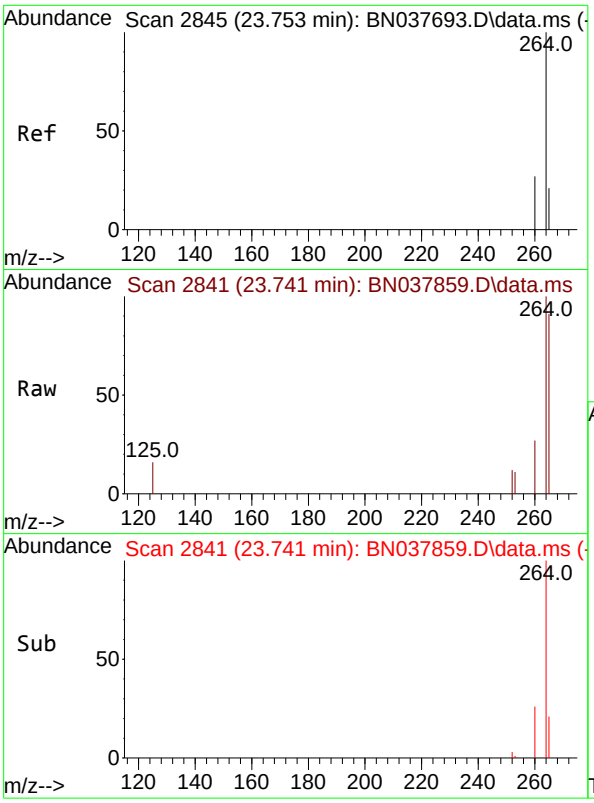


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.446 ng
RT: 21.330 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:149 Resp: 4030

Ion	Ratio	Lower	Upper
149	100		
167	25.5	20.8	31.2
279	3.6	3.3	4.9



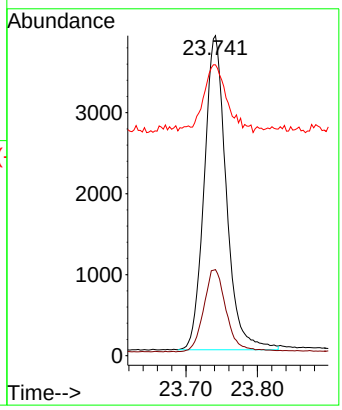


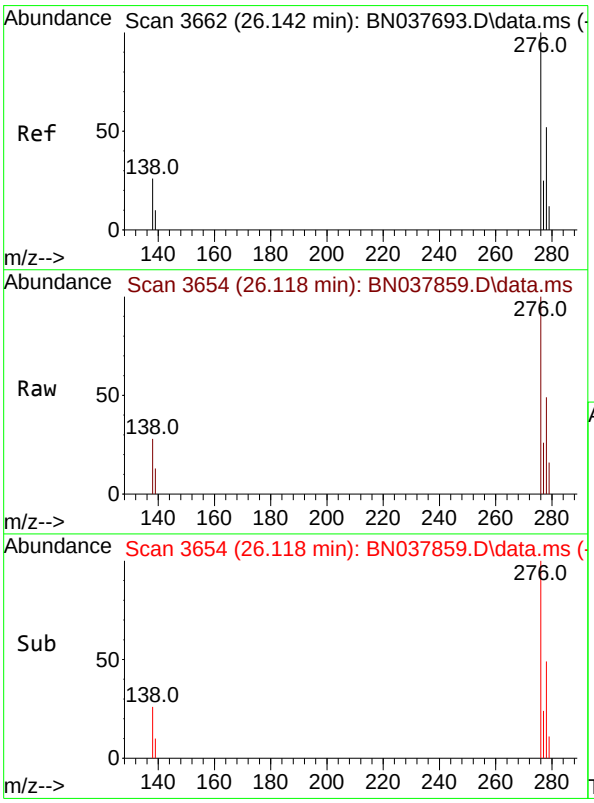
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 8334

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.8	32.8
265	90.9	39.4	59.2#

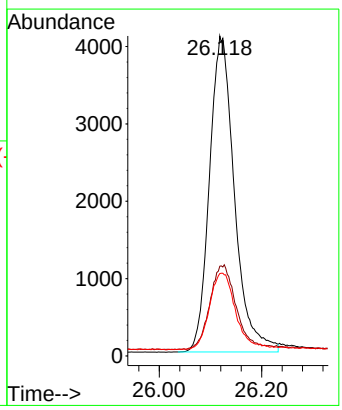


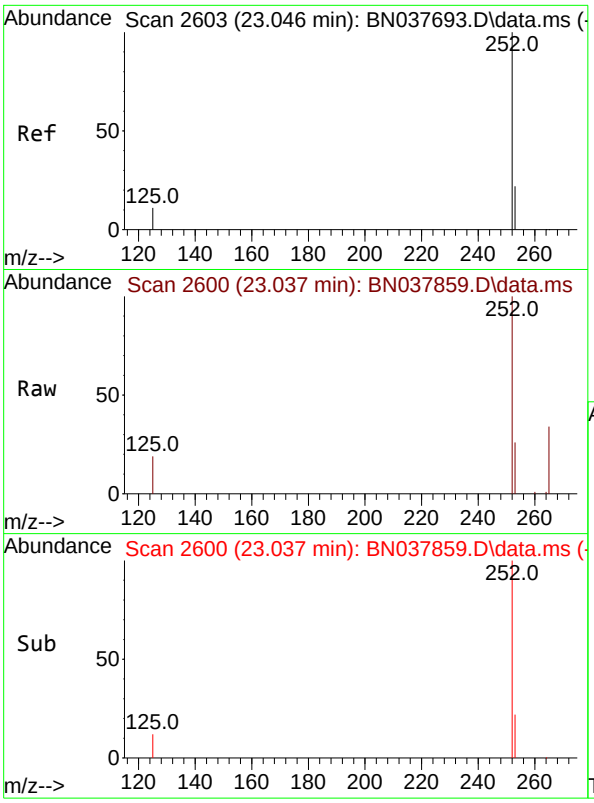


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.397 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.024 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:276 Resp: 13892

Ion	Ratio	Lower	Upper
276	100		
138	27.9	21.9	32.9
277	25.2	20.1	30.1



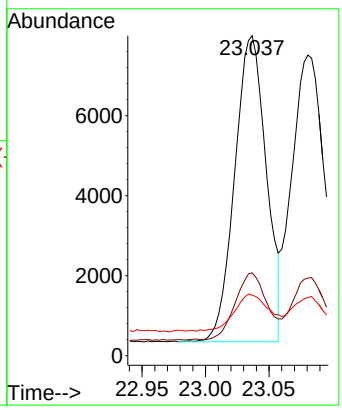


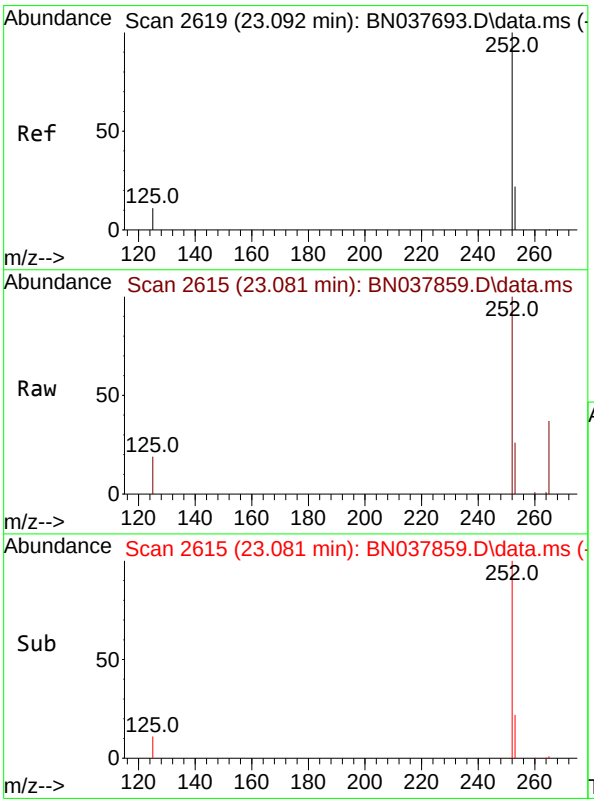
#37
Benzo(b)fluoranthene
Concen: 0.403 ng
RT: 23.037 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 13229

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.4	29.2
125	18.9	11.2	16.8#

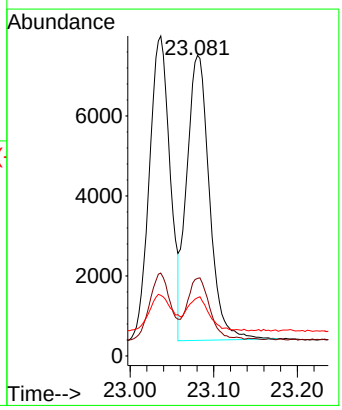


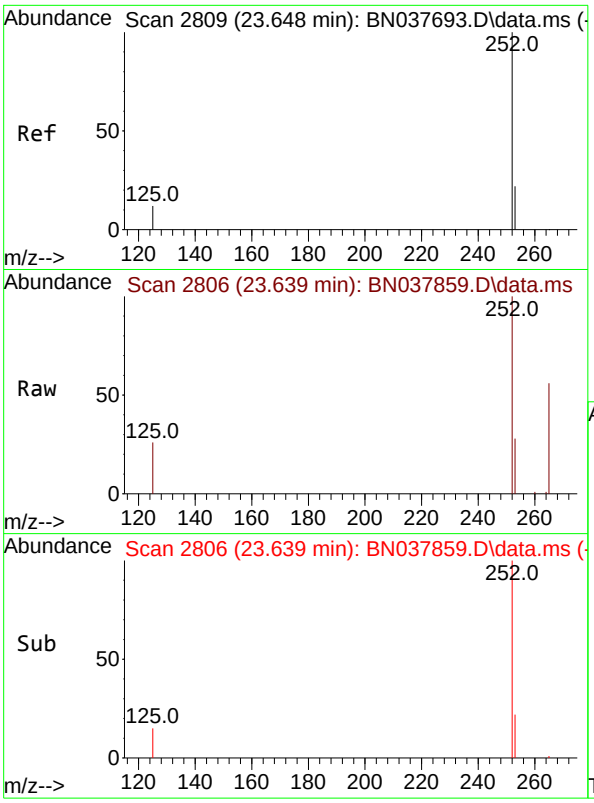


#38
Benzo(k)fluoranthene
Concen: 0.401 ng
RT: 23.081 min Scan# 2615
Delta R.T. -0.012 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:252 Resp: 13409

Ion	Ratio	Lower	Upper
252	100		
253	25.8	19.4	29.0
125	19.3	11.6	17.4#



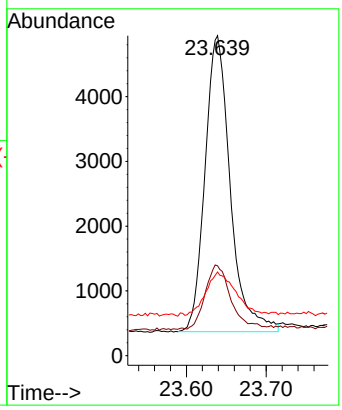


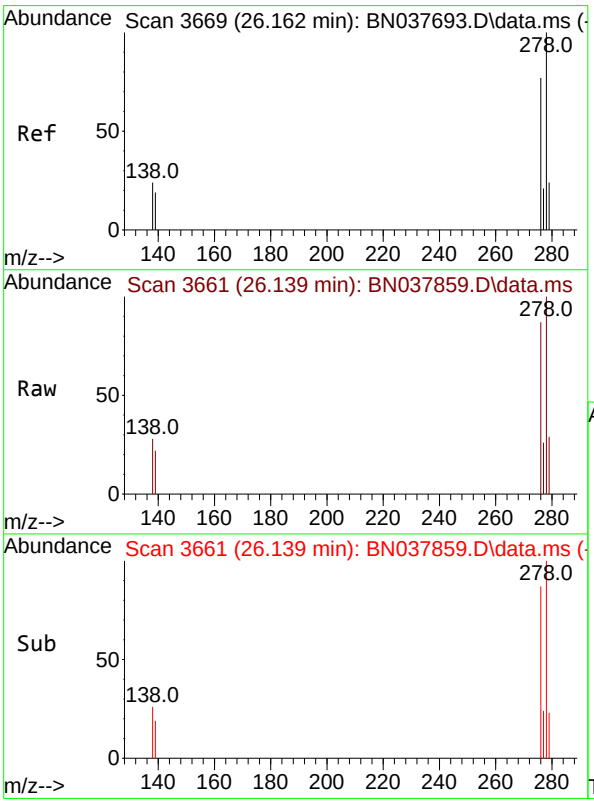
#39
Benzo(a)pyrene
Concen: 0.383 ng
RT: 23.639 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 10067

Ion	Ratio	Lower	Upper
252	100		
253	28.1	20.8	31.2
125	26.1	13.9	20.9#

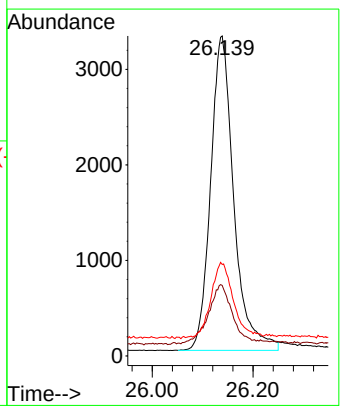


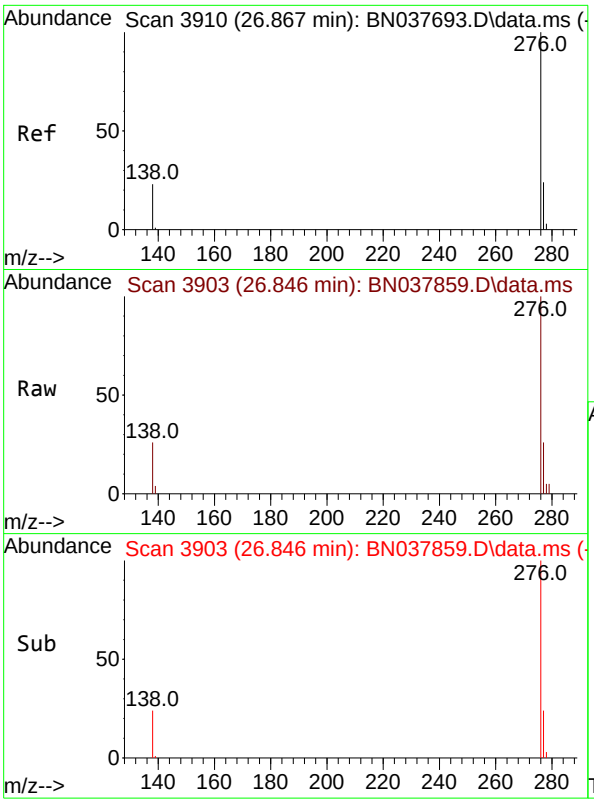


#40
Dibenzo(a,h)anthracene
Concen: 0.376 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.024 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:278 Resp: 10511

Ion	Ratio	Lower	Upper
278	100		
139	22.1	17.8	26.6
279	28.6	22.0	33.0



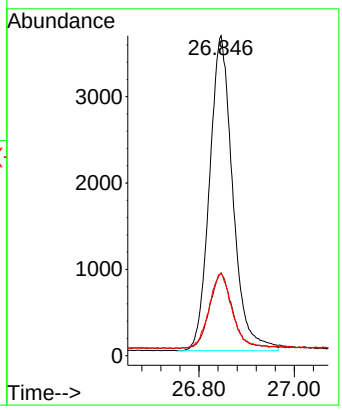


#41
Benzo(g,h,i)perylene
Concen: 0.394 ng
RT: 26.846 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 12358

Ion	Ratio	Lower	Upper
276	100		
277	25.9	20.6	31.0
138	25.8	20.2	30.2



Evaluate Continuing Calibration Report

Sample Results: **BN037859.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037859.D
Acq On : 22 Sep 2025 16:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 22 17:47:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	122	0.00
2		1,4-Dioxane	0.417	0.395	5.3	114	0.00
3		n-Nitrosodimethylamine	0.544	0.537	1.3	116	0.00
4	S	2-Fluorophenol	0.918	0.869	5.3	119	0.00
5	S	Phenol-d6	1.191	1.146	3.8	121	0.00
6		bis(2-Chloroethyl)ether	1.064	1.046	1.7	119	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	130	-0.01
8	S	Nitrobenzene-d5	0.293	0.293	0.0	134	-0.01
9		Naphthalene	1.093	1.044	4.5	126	0.00
10		Hexachlorobutadiene	0.198	0.180	9.1	119	-0.01
11	SURR	2-Methylnaphthalene-d10	0.530	0.557	-5.1	145	-0.01
12		2-Methylnaphthalene	0.676	0.639	5.5	126	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	131	-0.01
14	S	2,4,6-Tribromophenol	0.104	0.108	-3.8	141	-0.01
15	S	2-Fluorobiphenyl	1.673	1.607	3.9	128	-0.01
16		Acenaphthylene	1.834	1.658	9.6	122	0.00
17		Acenaphthene	1.240	1.173	5.4	127	-0.01
18		Fluorene	1.502	1.355	9.8	124	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00
20		4,6-Dinitro-2-methylphenol	0.037	0.027	27.0#	94	-0.01
21		4-Bromophenyl-phenylether	0.261	0.248	5.0	116	-0.01
22		Hexachlorobenzene	0.300	0.329	-9.7	131	-0.01
23		Atrazine	0.166	0.154	7.2	119	-0.01
24		Pentachlorophenol	0.087	0.077	11.5	122	0.00
25		Phenanthrene	1.259	1.194	5.2	114	-0.01
26		Anthracene	1.116	0.991	11.2	108	-0.01
27	SURR	Fluoranthene-d10	1.004	0.898	10.6	112	0.00
28		Fluoranthene	1.381	1.106	19.9	99	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	93	0.00
30		Pyrene	1.566	1.622	-3.6	97	0.00
31	S	Terphenyl-d14	0.812	0.784	3.4	91	-0.01
32		Benzo(a)anthracene	1.395	1.277	8.5	88	0.00
33		Chrysene	1.496	1.440	3.7	90	0.00
34		Bis(2-ethylhexyl)phthalate	0.414	0.461	-11.4	114	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	93	-0.01
36		Indeno(1,2,3-cd)pyrene	1.681	1.667	0.8	100	-0.02
37		Benzo(b)fluoranthene	1.575	1.587	-0.8	95	0.00
38		Benzo(k)fluoranthene	1.606	1.609	-0.2	98	-0.01
39	C	Benzo(a)pyrene	1.261	1.208	4.2	94	0.00
40		Dibenzo(a,h)anthracene	1.342	1.261	6.0	97	-0.02
41		Benzo(g,h,i)perylene	1.506	1.483	1.5	95	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Evaluate Continuing Calibration Report

Sample Results: **BN037859.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037859.D
Acq On : 22 Sep 2025 16:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 22 17:47:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	122	0.00
2		1,4-Dioxane	0.400	0.379	5.3	114	0.00
3		n-Nitrosodimethylamine	0.400	0.395	1.3	116	0.00
4	S	2-Fluorophenol	0.400	0.379	5.3	119	0.00
5	S	Phenol-d6	0.400	0.385	3.8	121	0.00
6		bis(2-Chloroethyl)ether	0.400	0.393	1.8	119	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	130	-0.01
8	S	Nitrobenzene-d5	0.400	0.401	-0.3	134	-0.01
9		Naphthalene	0.400	0.382	4.5	126	0.00
10		Hexachlorobutadiene	0.400	0.364	9.0	119	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.420	-5.0	145	-0.01
12		2-Methylnaphthalene	0.400	0.378	5.5	126	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	131	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.415	-3.7	141	-0.01
15	S	2-Fluorobiphenyl	0.400	0.384	4.0	128	-0.01
16		Acenaphthylene	0.400	0.362	9.5	122	0.00
17		Acenaphthene	0.400	0.378	5.5	127	-0.01
18		Fluorene	0.400	0.361	9.8	124	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	117	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.288	28.0#	94	-0.01
21		4-Bromophenyl-phenylether	0.400	0.380	5.0	116	-0.01
22		Hexachlorobenzene	0.400	0.438	-9.5	131	-0.01
23		Atrazine	0.400	0.372	7.0	119	-0.01
24		Pentachlorophenol	0.400	0.355	11.3	122	0.00
25		Phenanthrene	0.400	0.379	5.3	114	-0.01
26		Anthracene	0.400	0.355	11.3	108	-0.01
27	SURR	Fluoranthene-d10	0.400	0.358	10.5	112	0.00
28		Fluoranthene	0.400	0.320	20.0	99	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	93	0.00
30		Pyrene	0.400	0.414	-3.5	97	0.00
31	S	Terphenyl-d14	0.400	0.386	3.5	91	-0.01
32		Benzo(a)anthracene	0.400	0.366	8.5	88	0.00
33		Chrysene	0.400	0.385	3.8	90	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.446	-11.5	114	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	93	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.397	0.8	100	-0.02
37		Benzo(b)fluoranthene	0.400	0.403	-0.8	95	0.00
38		Benzo(k)fluoranthene	0.400	0.401	-0.3	98	-0.01
39	C	Benzo(a)pyrene	0.400	0.383	4.3	94	0.00
40		Dibenzo(a,h)anthracene	0.400	0.376	6.0	97	-0.02
41		Benzo(g,h,i)perylene	0.400	0.394	1.5	95	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3097

Instrument ID: BNA_N Calibration Date/Time: 09/24/2025 09:54

Lab File ID: BN037871.D Init. Calib. Date(s): 09/23/2025 09/23/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:13 15:51

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.502		-9.7	20.0
Fluoranthene-d10	1.006	0.885		-12.0	20.0
2-Fluorophenol	0.913	0.826		-9.5	20.0
Phenol-d6	1.199	1.076		-10.3	20.0
Nitrobenzene-d5	0.305	0.287		-5.9	20.0
2-Fluorobiphenyl	1.638	1.579		-3.6	20.0
2,4,6-Tribromophenol	0.152	0.122		-19.7	20.0
Terphenyl-d14	0.797	0.725		-9.0	20.0
1,4-Dioxane	0.406	0.419		3.2	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037871.D
Acq On : 24 Sep 2025 09:54
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 24 11:11:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

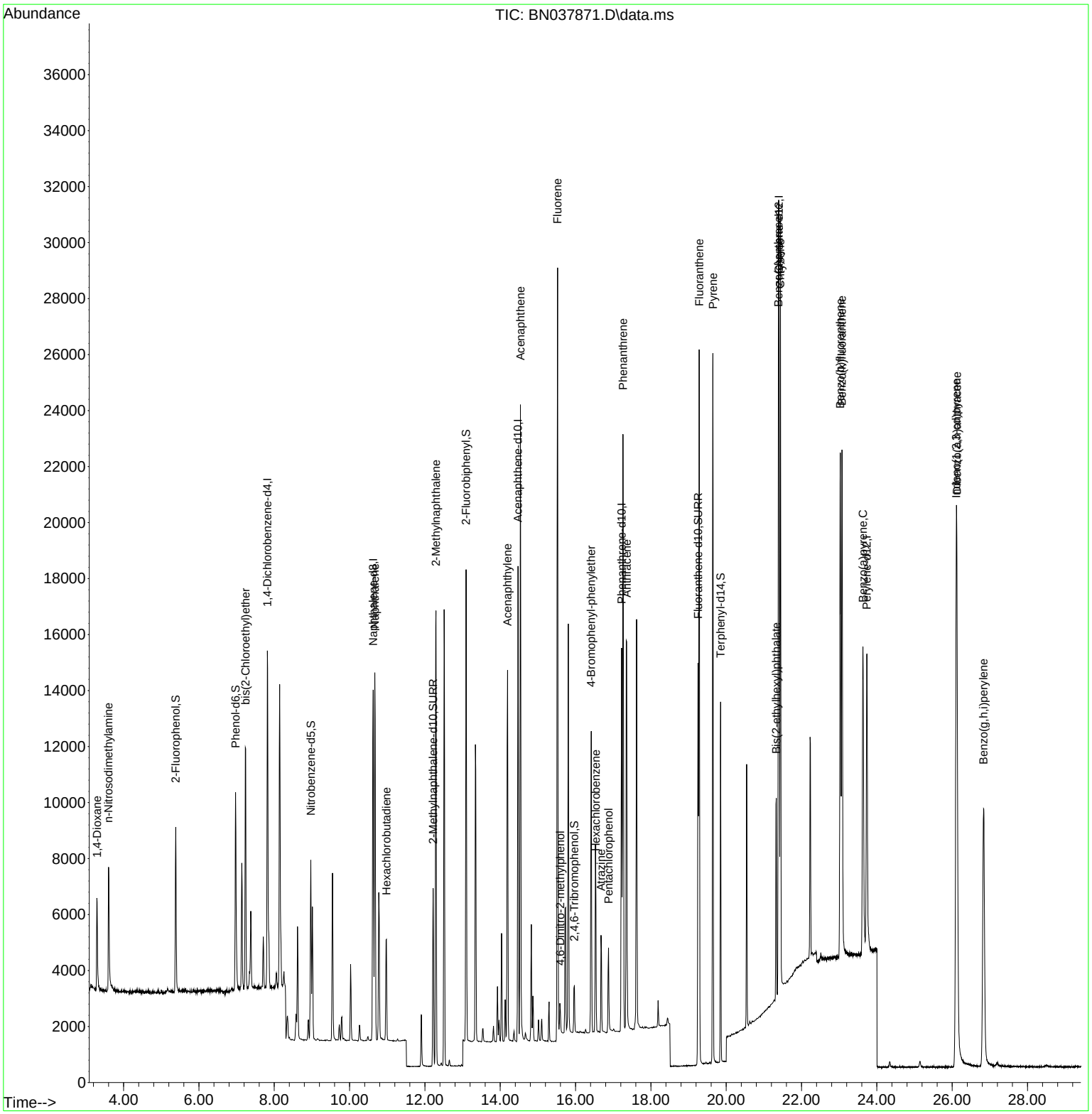
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.818	152	6027	0.400	ng		0.00
7) Naphthalene-d8	10.626	136	16875	0.400	ng		0.00
13) Acenaphthene-d10	14.473	164	8790	0.400	ng		0.00
19) Phenanthrene-d10	17.223	188	17707	0.400	ng		0.00
29) Chrysene-d12	21.402	240	15660	0.400	ng		0.00
35) Perylene-d12	23.735	264	14846	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.384	112	4980	0.362	ng		0.00
5) Phenol-d6	6.973	99	6488	0.359	ng		0.00
8) Nitrobenzene-d5	8.971	82	4847	0.377	ng		0.00
11) 2-Methylnaphthalene-d10	12.217	152	8473	0.361	ng		0.00
14) 2,4,6-Tribromophenol	15.969	330	1071	0.321	ng		0.00
15) 2-Fluorobiphenyl	13.094	172	13879	0.386	ng		0.00
27) Fluoranthene-d10	19.252	212	15676	0.352	ng		0.00
31) Terphenyl-d14	19.852	244	11356	0.364	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	2525	0.413	ng		97
3) n-Nitrosodimethylamine	3.600	42	3202	0.393	ng	#	88
6) bis(2-Chloroethyl)ether	7.240	93	6421	0.383	ng		99
9) Naphthalene	10.669	128	17858	0.384	ng		100
10) Hexachlorobutadiene	10.978	225	3114	0.393	ng	#	100
12) 2-Methylnaphthalene	12.293	142	11287	0.372	ng		99
16) Acenaphthylene	14.195	152	14763	0.370	ng		99
17) Acenaphthene	14.537	154	10658	0.375	ng		99
18) Fluorene	15.522	166	13226	0.385	ng		98
20) 4,6-Dinitro-2-methylph...	15.597	198	694	0.373	ng		97
21) 4-Bromophenyl-phenylether	16.416	248	4110	0.356	ng		100
22) Hexachlorobenzene	16.540	284	5400	0.386	ng		99
23) Atrazine	16.677	200	2979	0.339	ng	#	87
24) Pentachlorophenol	16.875	266	1599	0.333	ng		95
25) Phenanthrene	17.260	178	21385	0.367	ng		100
26) Anthracene	17.359	178	17791	0.352	ng		100
28) Fluoranthene	19.285	202	23036	0.359	ng		99
30) Pyrene	19.647	202	22662	0.367	ng		100
32) Benzo(a)anthracene	21.384	228	19693	0.360	ng		100
33) Chrysene	21.438	228	22733	0.384	ng		100
34) Bis(2-ethylhexyl)phtha...	21.330	149	7423	0.343	ng		99
36) Indeno(1,2,3-cd)pyrene	26.109	276	26646	0.393	ng		99
37) Benzo(b)fluoranthene	23.028	252	23575	0.368	ng		99
38) Benzo(k)fluoranthene	23.075	252	24415	0.379	ng		99
39) Benzo(a)pyrene	23.630	252	18325	0.362	ng		100
40) Dibenzo(a,h)anthracene	26.124	278	20887	0.394	ng		99
41) Benzo(g,h,i)perylene	26.835	276	21736	0.391	ng		98

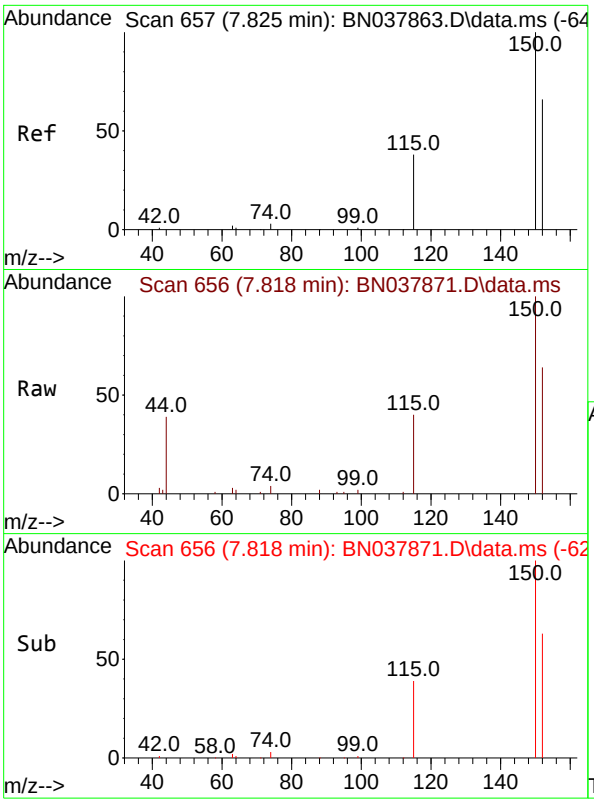
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037871.D
Acq On : 24 Sep 2025 09:54
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 24 11:11:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



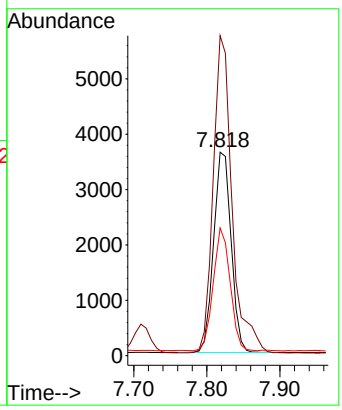


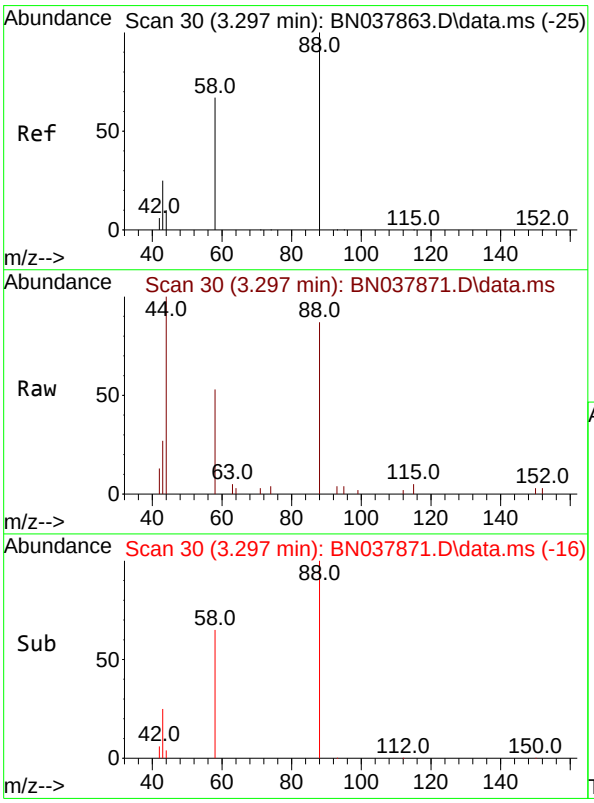
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 6027

Ion	Ratio	Lower	Upper
152	100		
150	157.2	121.0	181.4
115	62.8	47.4	71.0

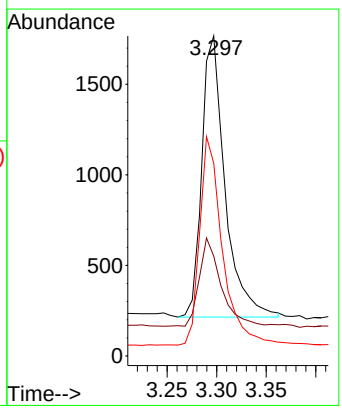


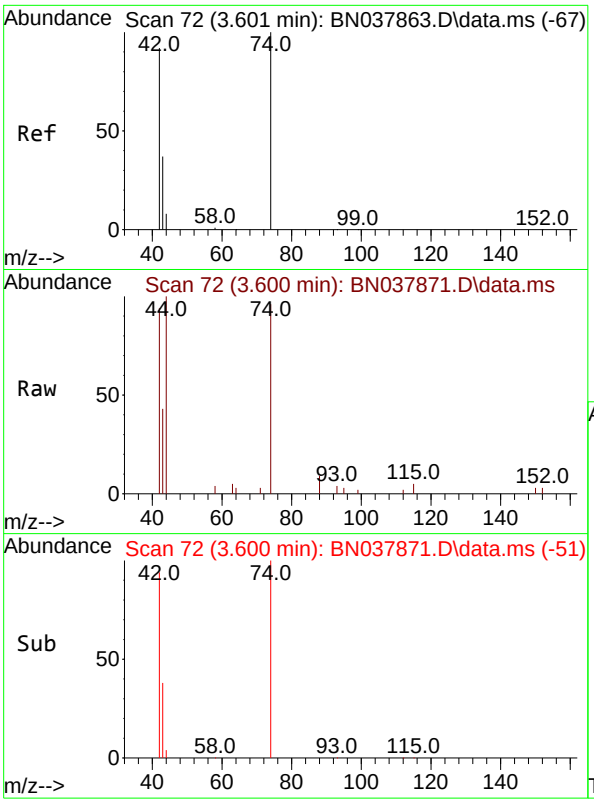


#2
1,4-Dioxane
Concen: 0.413 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion: 88 Resp: 2525

Ion	Ratio	Lower	Upper
88	100		
43	29.5	26.6	39.8
58	72.2	58.9	88.3



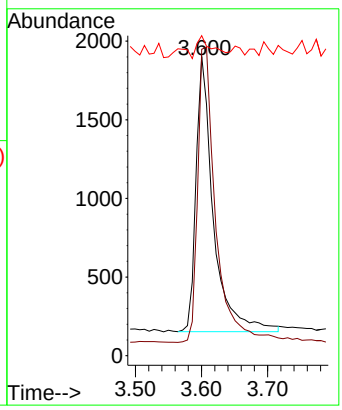


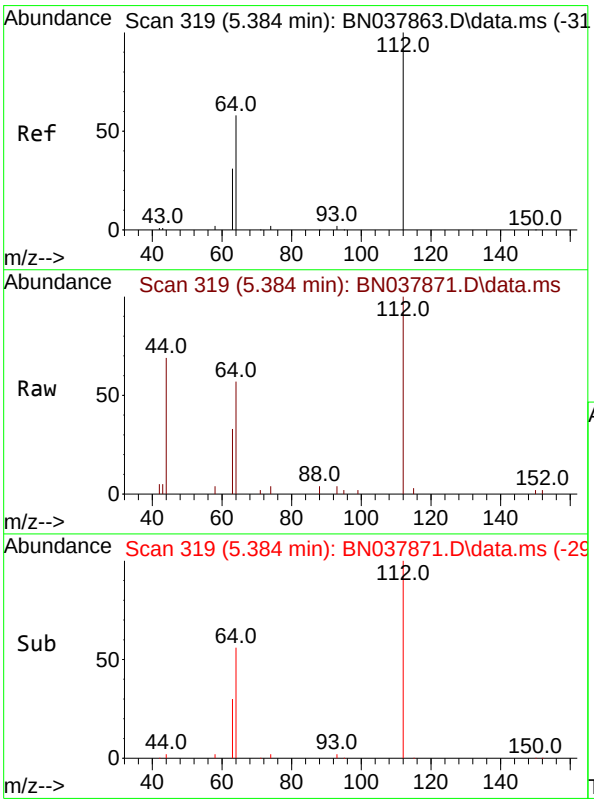
#3
n-Nitrosodimethylamine
Concen: 0.393 ng
RT: 3.600 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 3202

Ion	Ratio	Lower	Upper
42	100		
74	111.2	93.4	140.0
44	7.3	22.2	33.4#

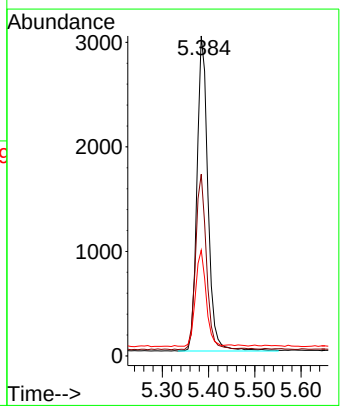


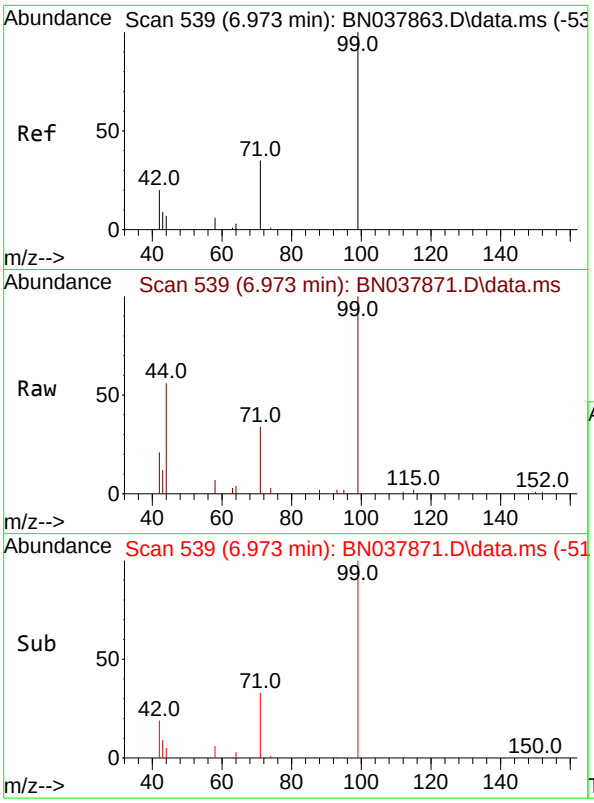


#4
2-Fluorophenol
Concen: 0.362 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:112 Resp: 4980

Ion	Ratio	Lower	Upper
112	100		
64	54.9	44.6	66.8
63	29.6	24.9	37.3



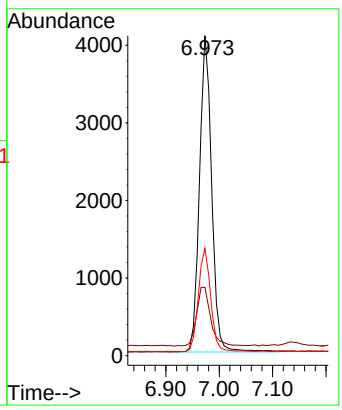


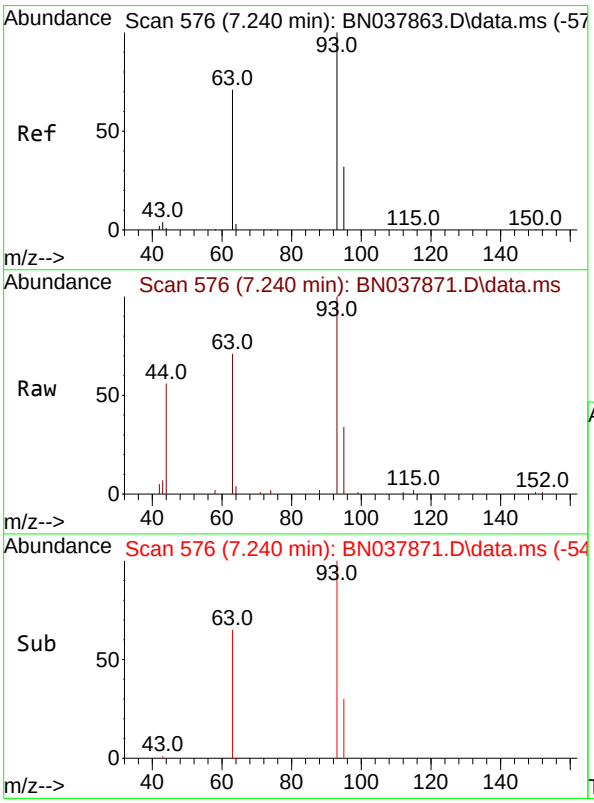
#5
Phenol-d6
Concen: 0.359 ng
RT: 6.973 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 6488

Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.2	25.8
71	33.0	27.3	40.9

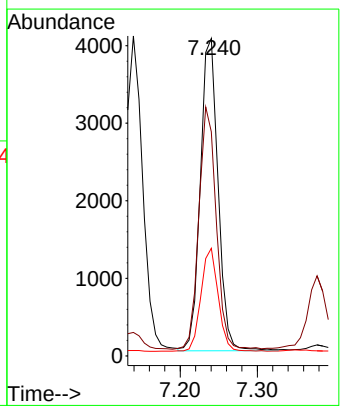


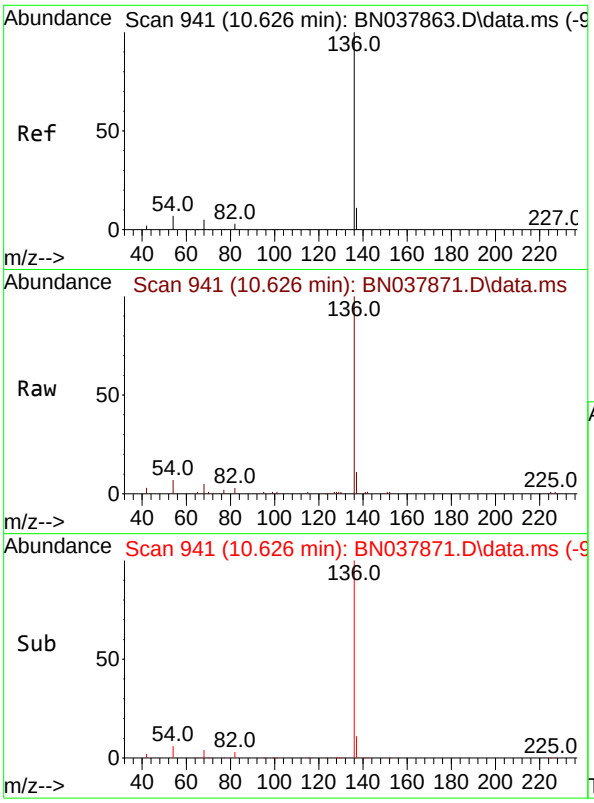


#6
bis(2-Chloroethyl)ether
Concen: 0.383 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion: 93 Resp: 6421

Ion	Ratio	Lower	Upper
93	100		
63	75.8	60.1	90.1
95	32.2	25.4	38.2



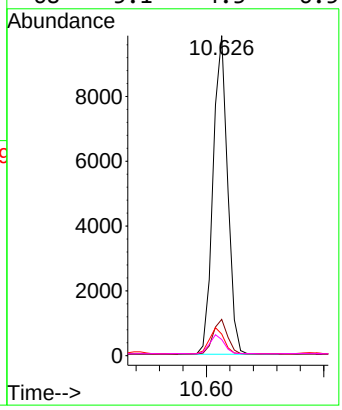


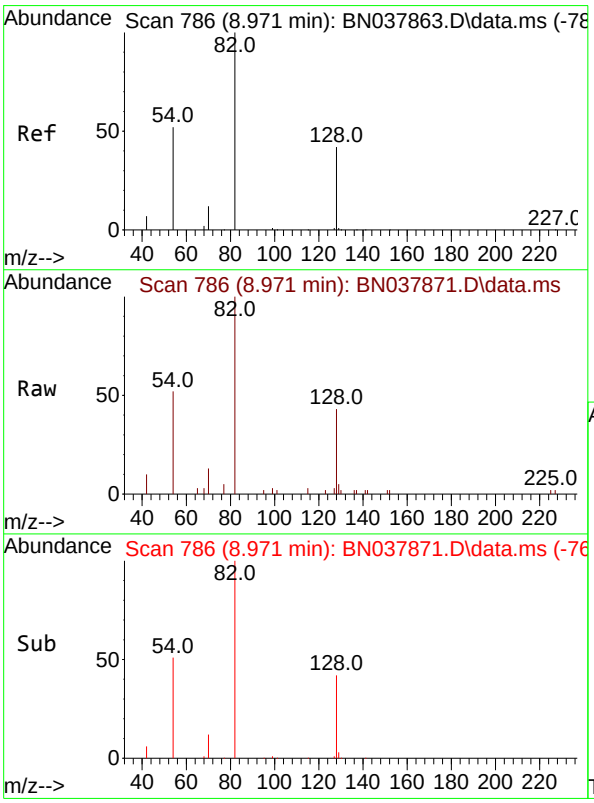
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 16875

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	6.8	5.8	8.8
68	5.1	4.3	6.5

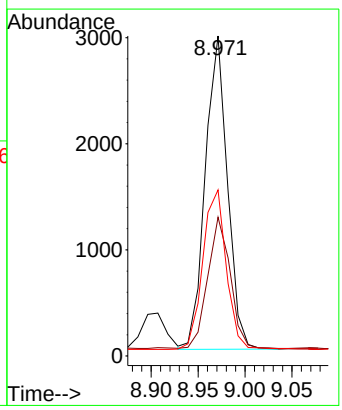


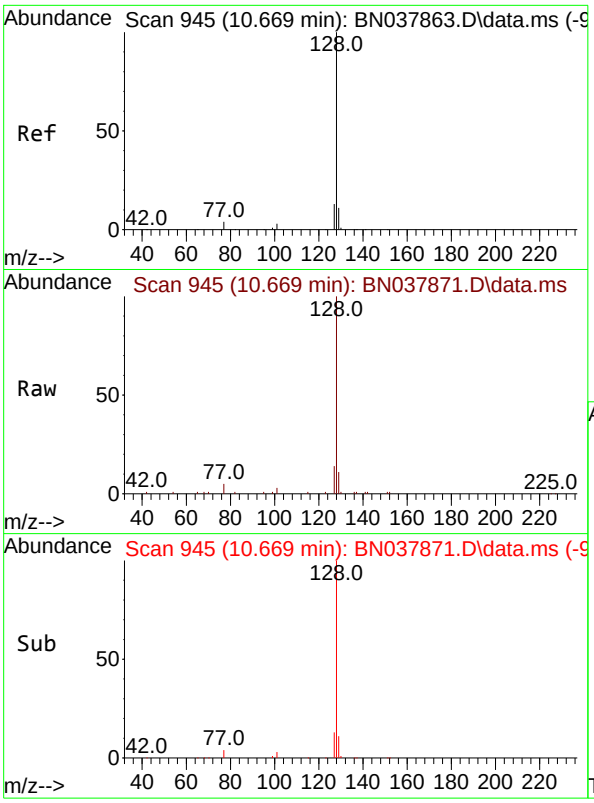


#8
Nitrobenzene-d5
Concen: 0.377 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion: 82 Resp: 4847

Ion	Ratio	Lower	Upper
82	100		
128	43.3	34.8	52.2
54	51.9	42.2	63.2



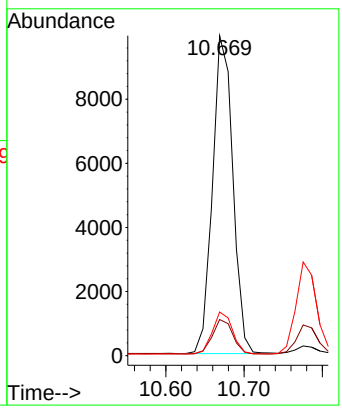


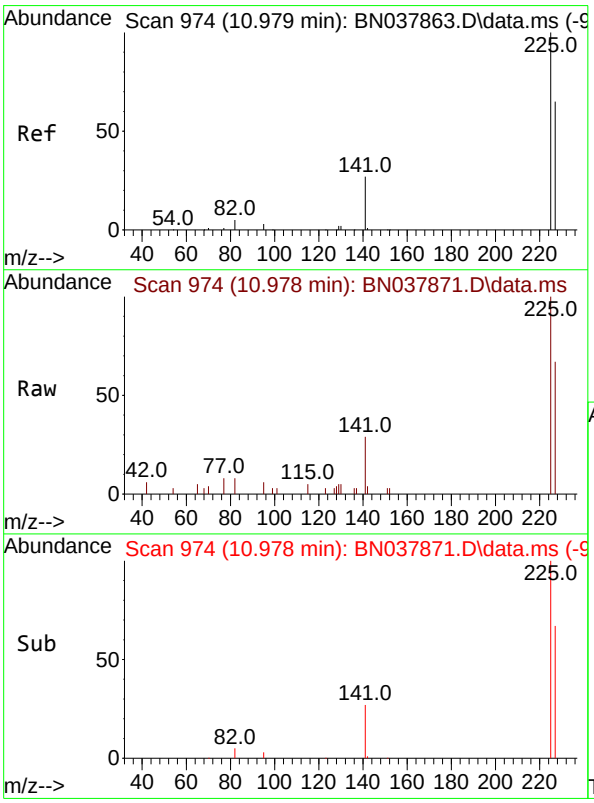
#9
Naphthalene
Concen: 0.384 ng
RT: 10.669 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 17858

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.2	13.8
127	13.6	11.0	16.6

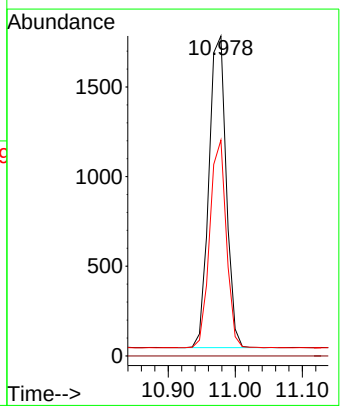


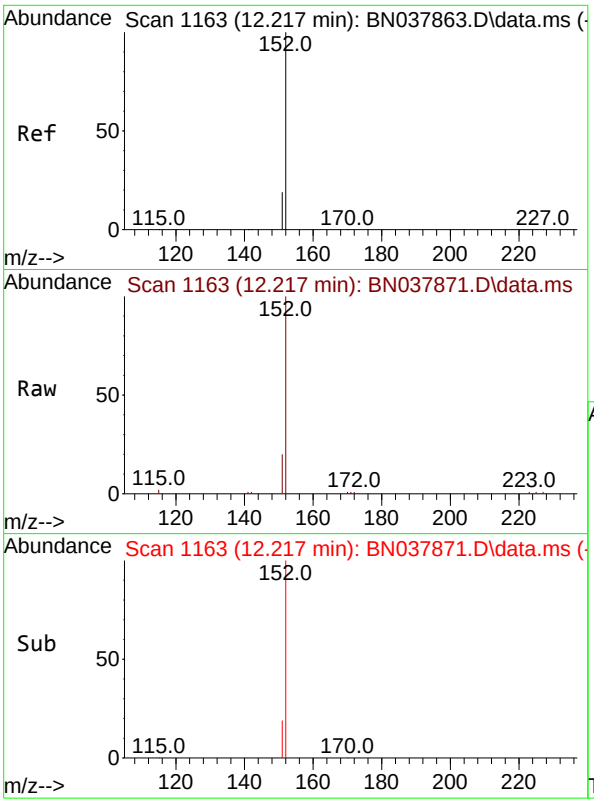


#10
Hexachlorobutadiene
Concen: 0.393 ng
RT: 10.978 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:225 Resp: 3114

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.4	77.2



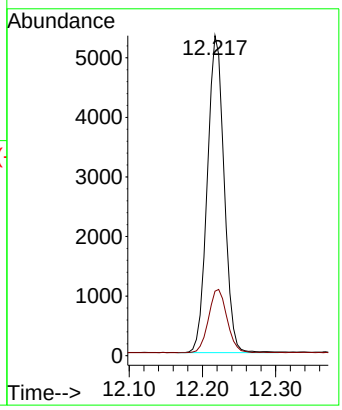


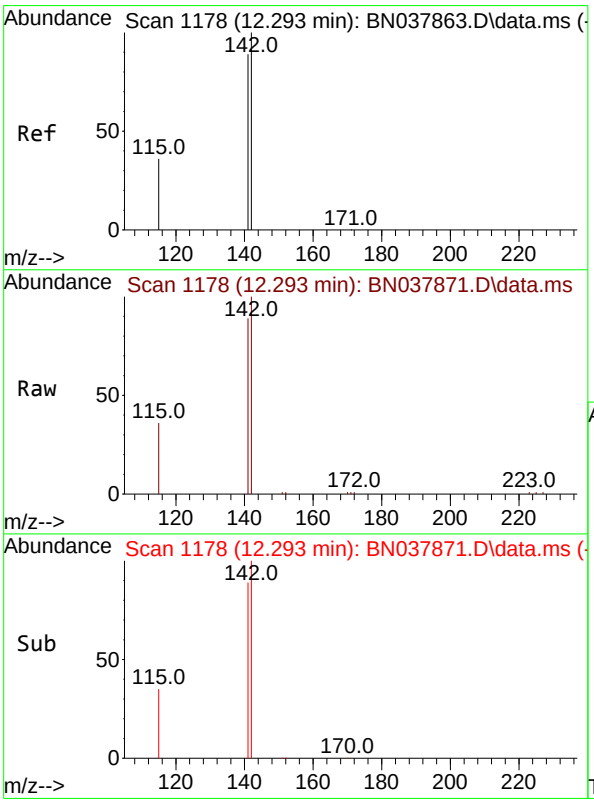
#11
2-Methylnaphthalene-d10
Concen: 0.361 ng
RT: 12.217 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 8473

Ion	Ratio	Lower	Upper
152	100		
151	22.0	17.4	26.2

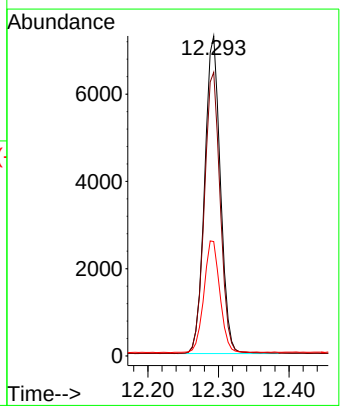


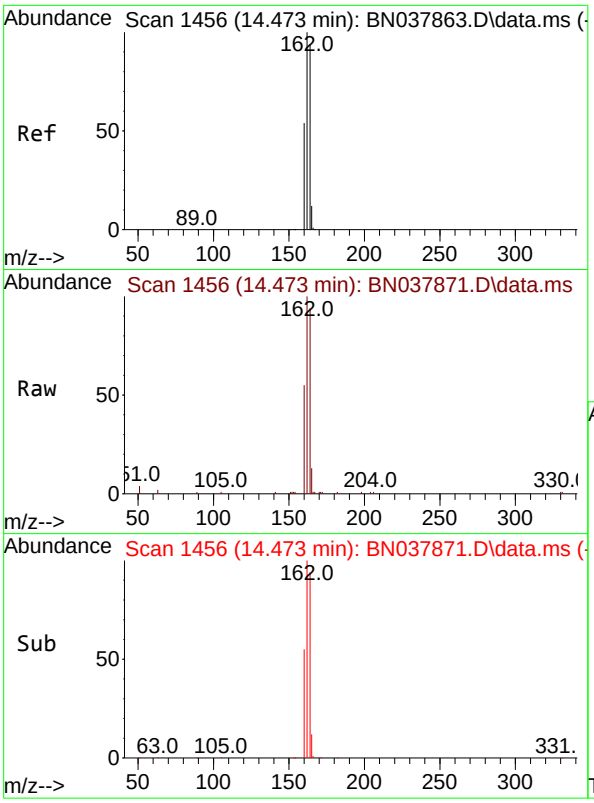


#12
2-Methylnaphthalene
Concen: 0.372 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:142 Resp: 11287

Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.2	106.8
115	35.7	29.7	44.5



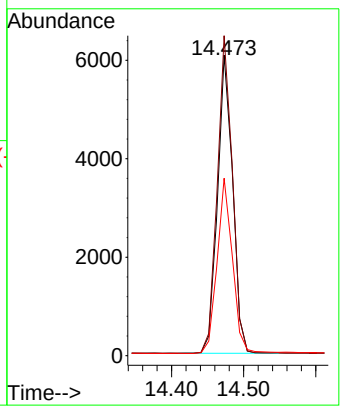


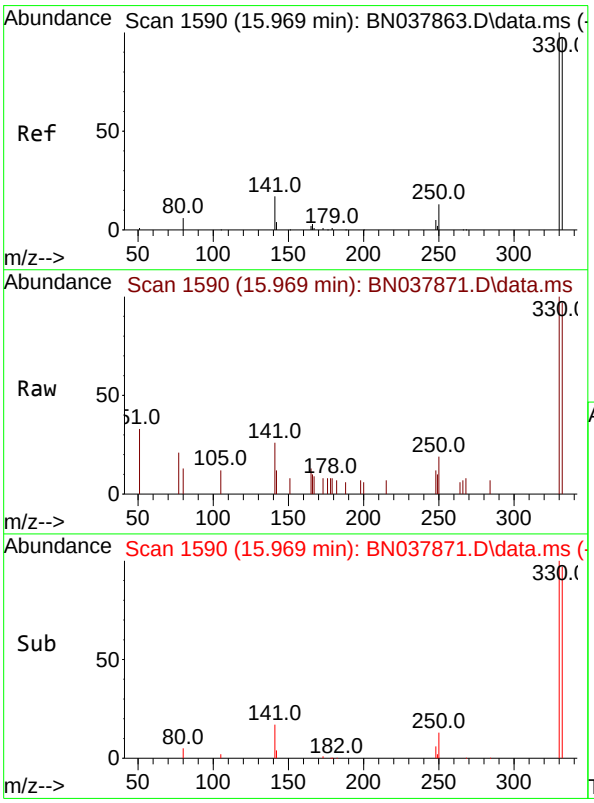
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 8790

Ion	Ratio	Lower	Upper
164	100		
162	106.4	84.8	127.2
160	59.0	46.1	69.1

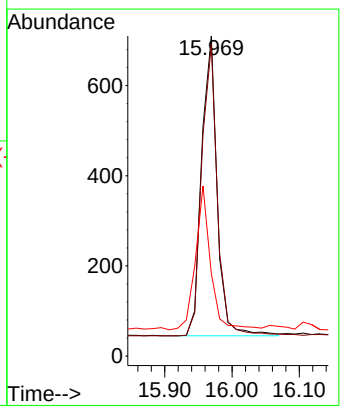


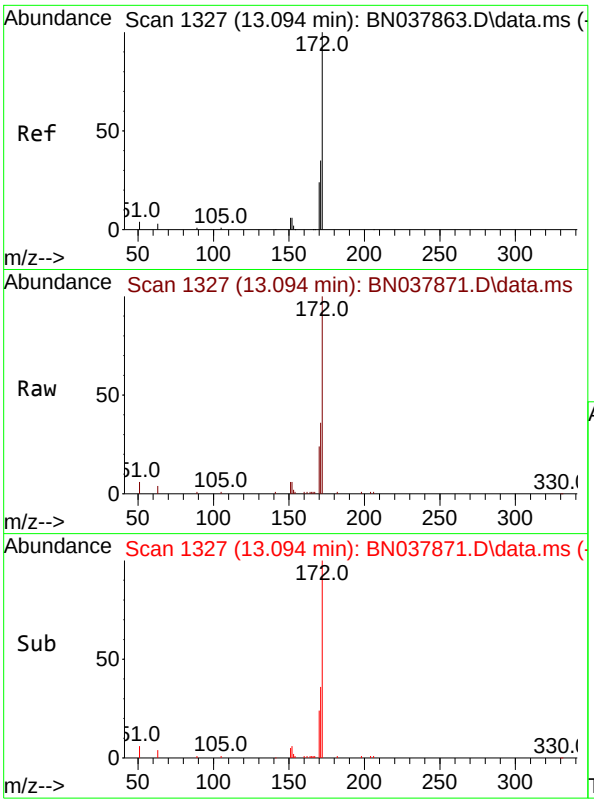


#14
2,4,6-Tribromophenol
Concen: 0.321 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:330 Resp: 1071

Ion	Ratio	Lower	Upper
330	100		
332	97.9	77.2	115.8
141	46.7	37.2	55.8



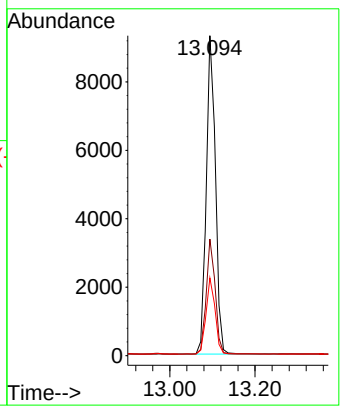


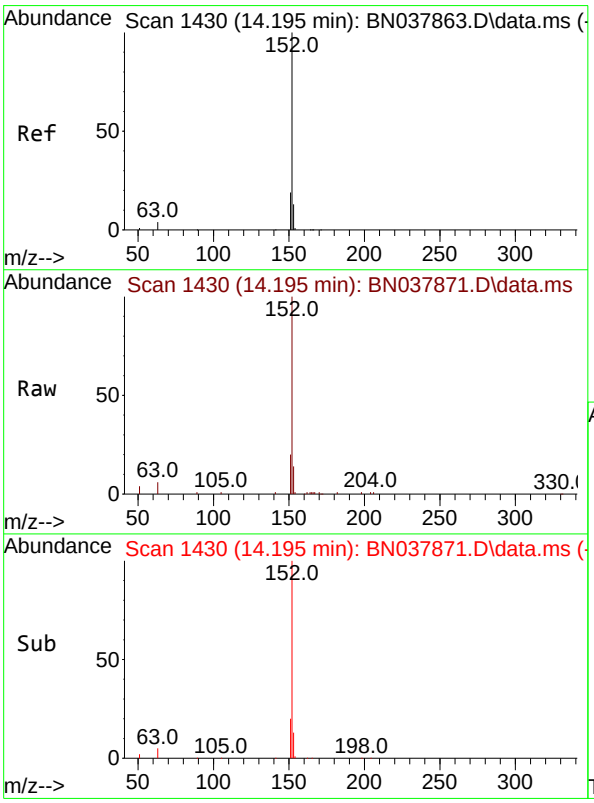
#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 13.094 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 13879

Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.6	43.0
170	24.3	19.7	29.5

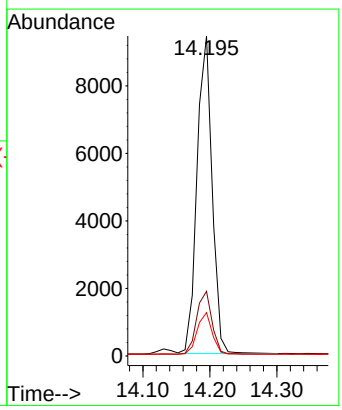


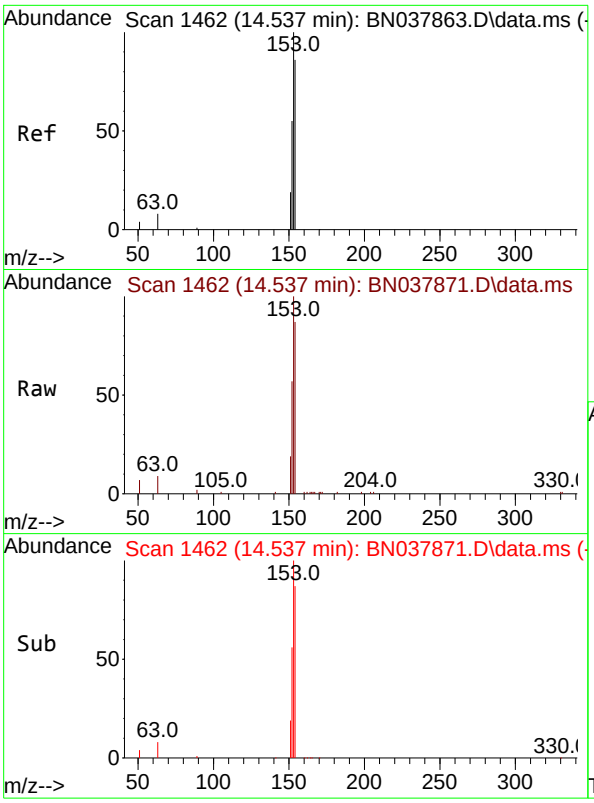


#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:152 Resp: 14763

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	13.0	10.5	15.7



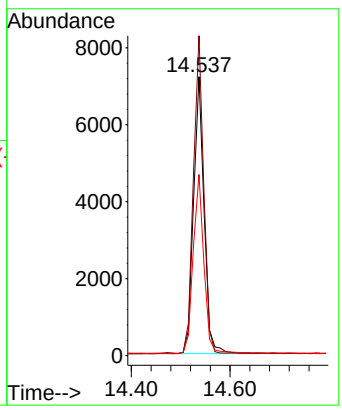


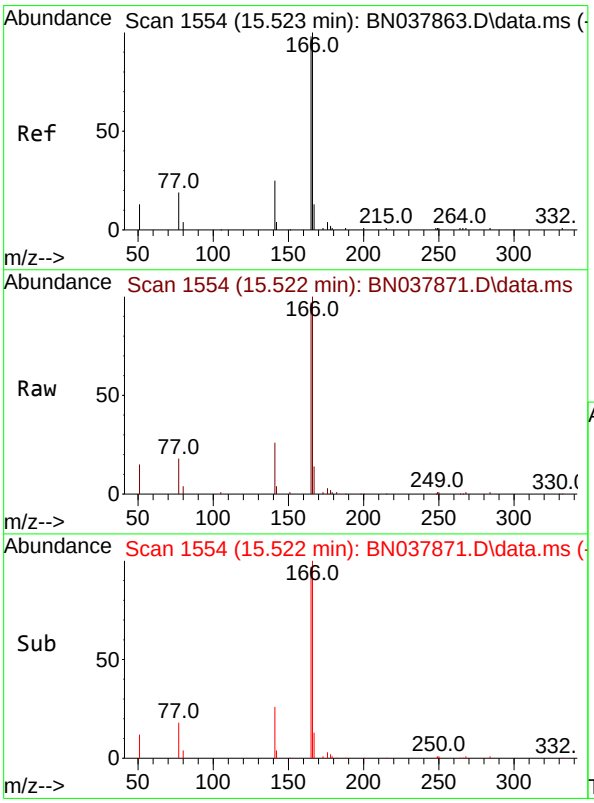
#17
Acenaphthene
Concen: 0.375 ng
RT: 14.537 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 10658

Ion	Ratio	Lower	Upper
154	100		
153	112.3	90.5	135.7
152	65.4	51.8	77.8

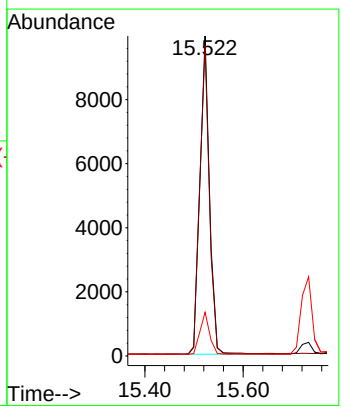


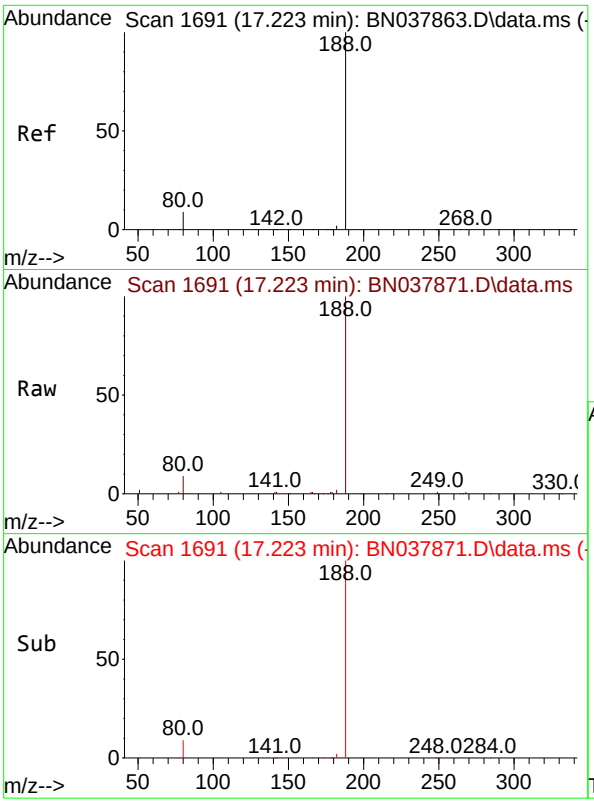


#18
Fluorene
Concen: 0.385 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:166 Resp: 13226

Ion	Ratio	Lower	Upper
166	100		
165	96.2	79.0	118.4
167	13.4	10.6	16.0



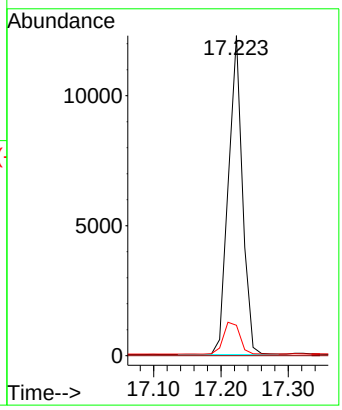


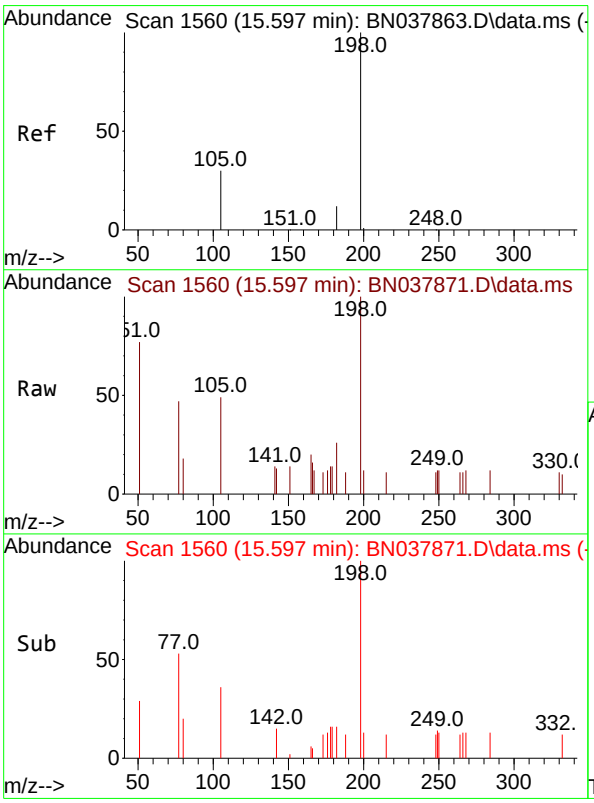
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 17707

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.5	7.6	11.4

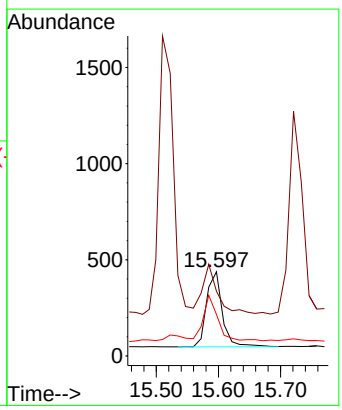


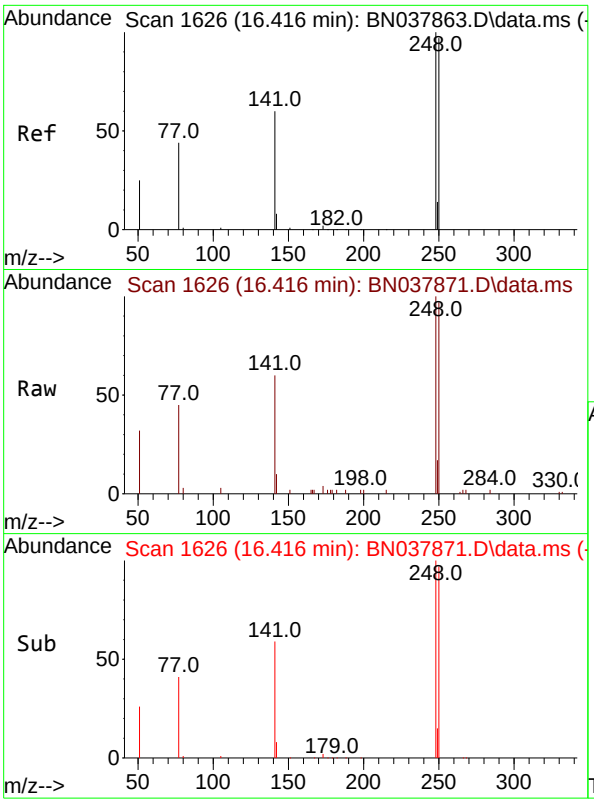


#20
4,6-Dinitro-2-methylphenol
Concen: 0.373 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:198 Resp: 694

Ion	Ratio	Lower	Upper
198	100		
51	76.9	59.1	88.7
105	49.3	41.3	61.9



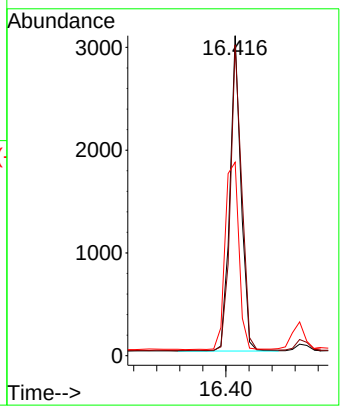


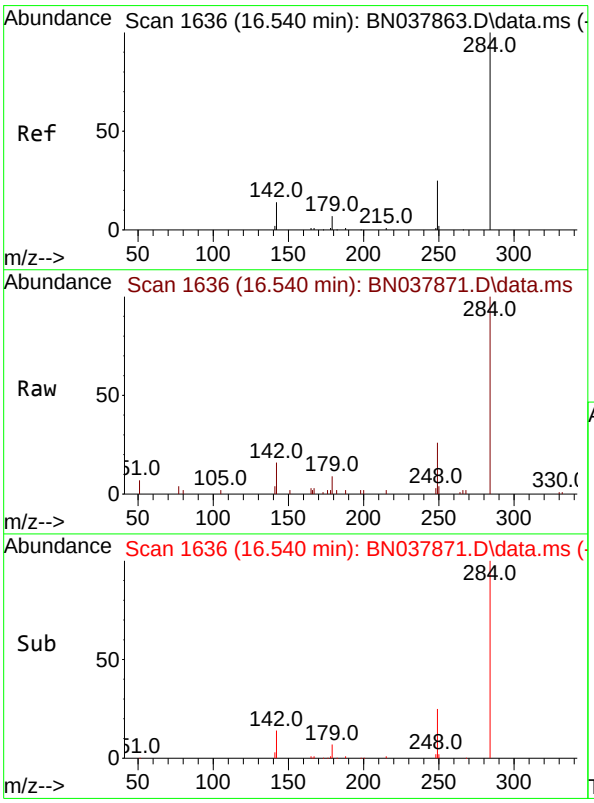
#21
4-Bromophenyl-phenylether
Concen: 0.356 ng
RT: 16.416 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 4110

Ion	Ratio	Lower	Upper
248	100		
250	97.1	77.6	116.4
141	60.4	48.8	73.2

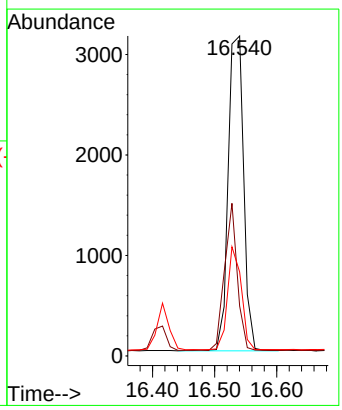


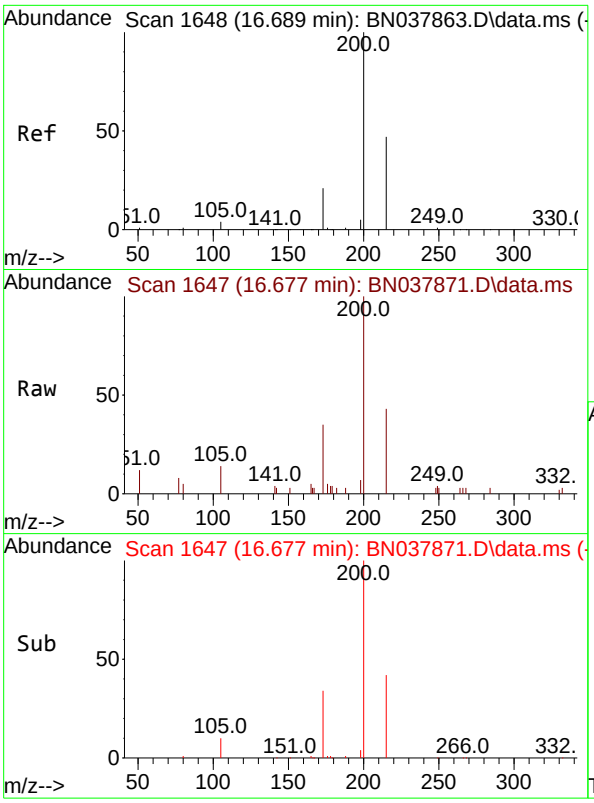


#22
Hexachlorobenzene
Concen: 0.386 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:284 Resp: 5400

Ion	Ratio	Lower	Upper
284	100		
142	38.6	30.9	46.3
249	29.2	23.9	35.9



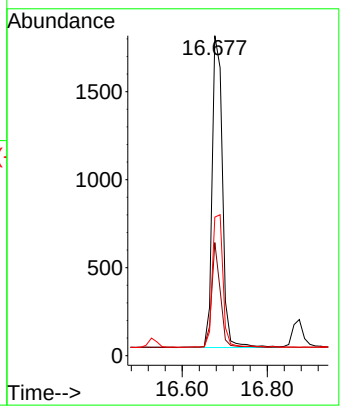


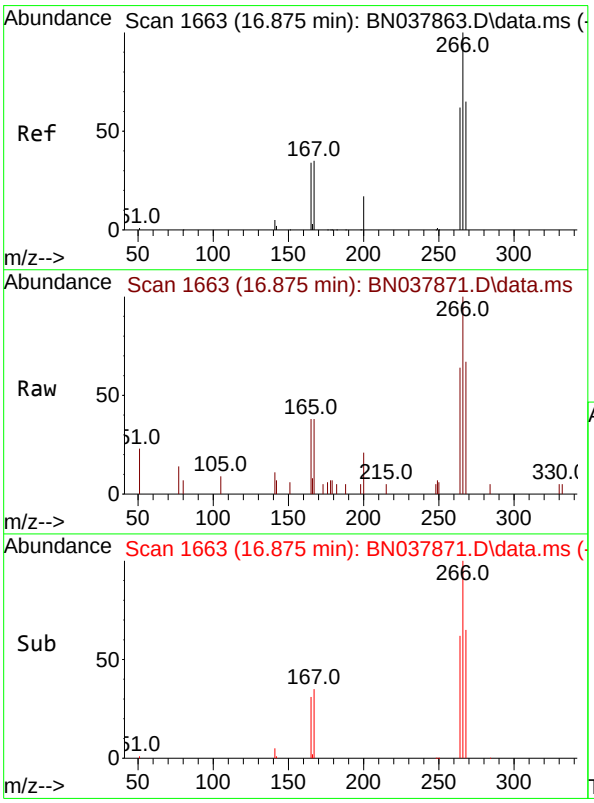
#23
Atrazine
Concen: 0.339 ng
RT: 16.677 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 2979

Ion	Ratio	Lower	Upper
200	100		
173	35.3	18.3	27.5#
215	43.3	38.6	58.0

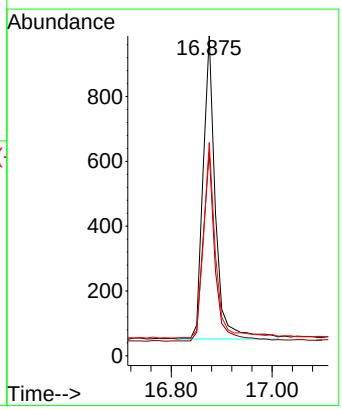


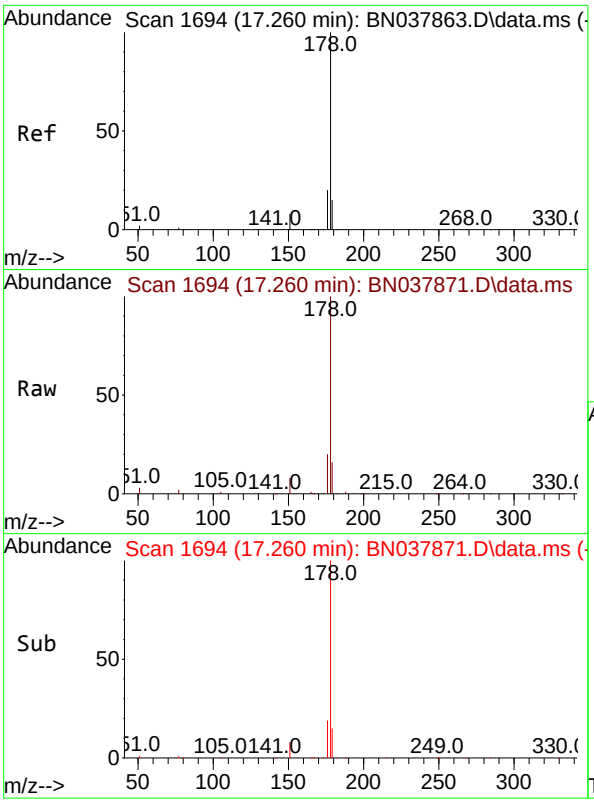


#24
Pentachlorophenol
Concen: 0.333 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:266 Resp: 1599

Ion	Ratio	Lower	Upper
266	100		
264	60.1	50.9	76.3
268	62.9	54.3	81.5



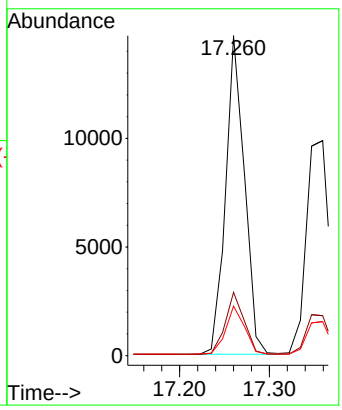


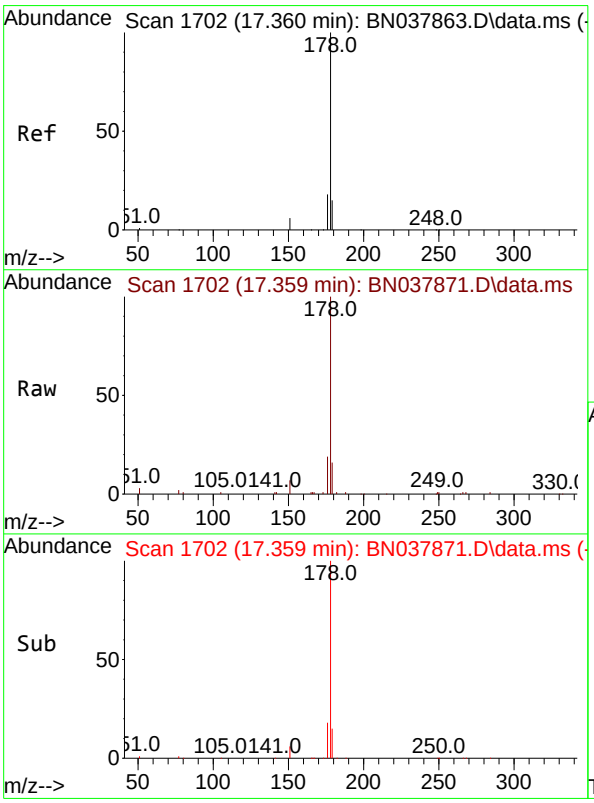
#25
Phenanthrene
Concen: 0.367 ng
RT: 17.260 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 21385

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.7	23.5
179	15.1	12.3	18.5

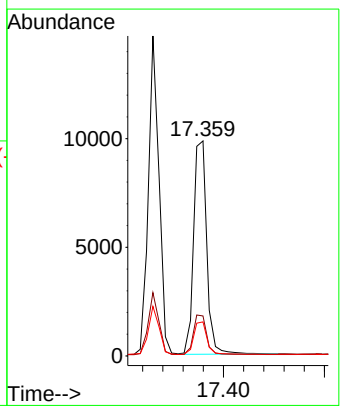


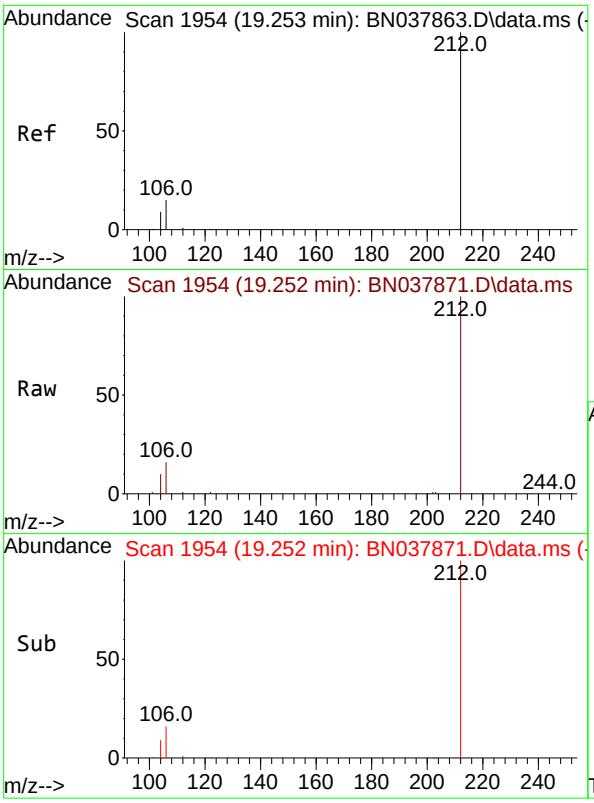


#26
Anthracene
Concen: 0.352 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:178 Resp: 17791

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.1	12.3	18.5



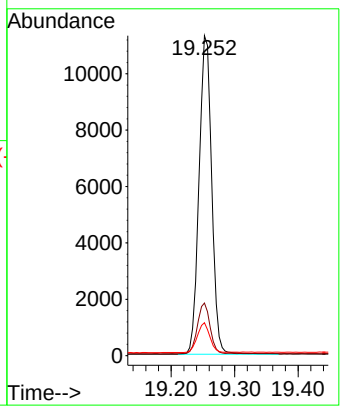


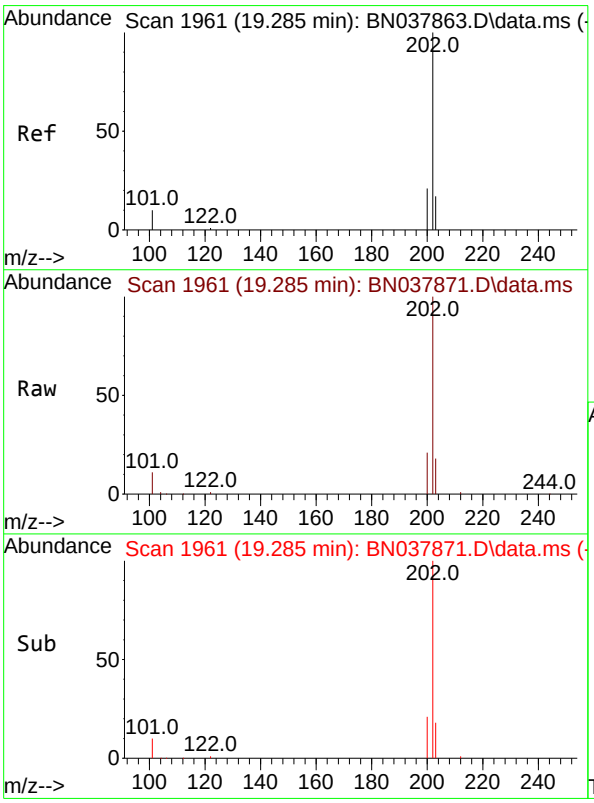
#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 19.252 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 15676

Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.6	19.0
104	9.1	7.4	11.0

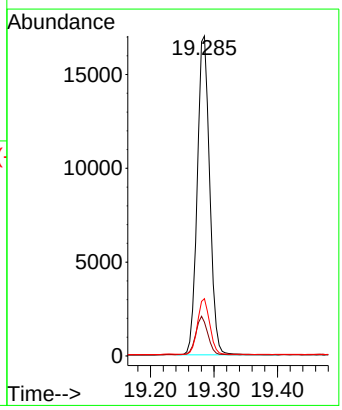


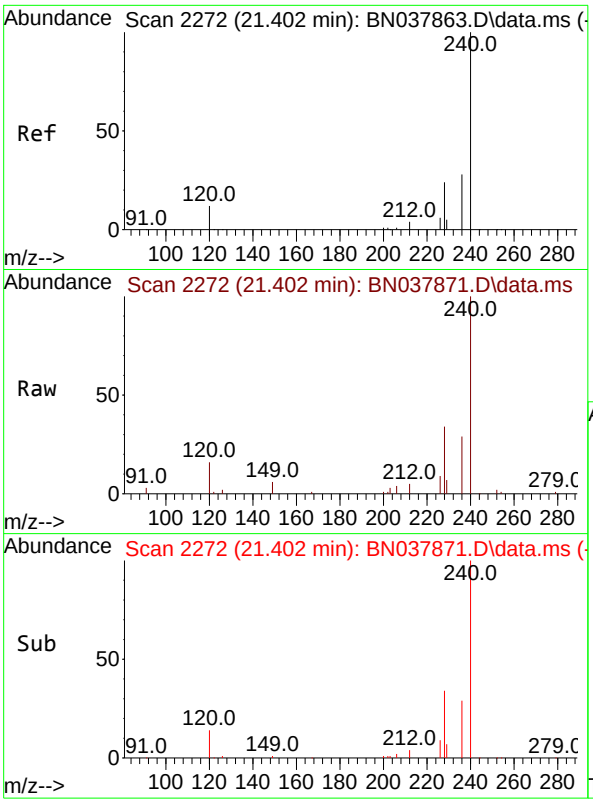


#28
Fluoranthene
Concen: 0.359 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:202 Resp: 23036

Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.3	13.9
203	17.3	13.6	20.4



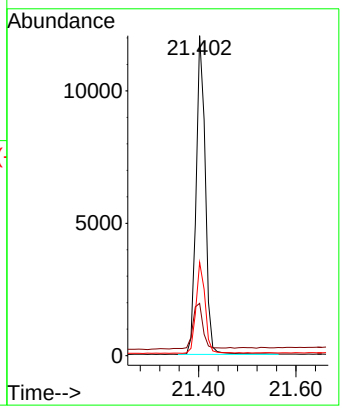


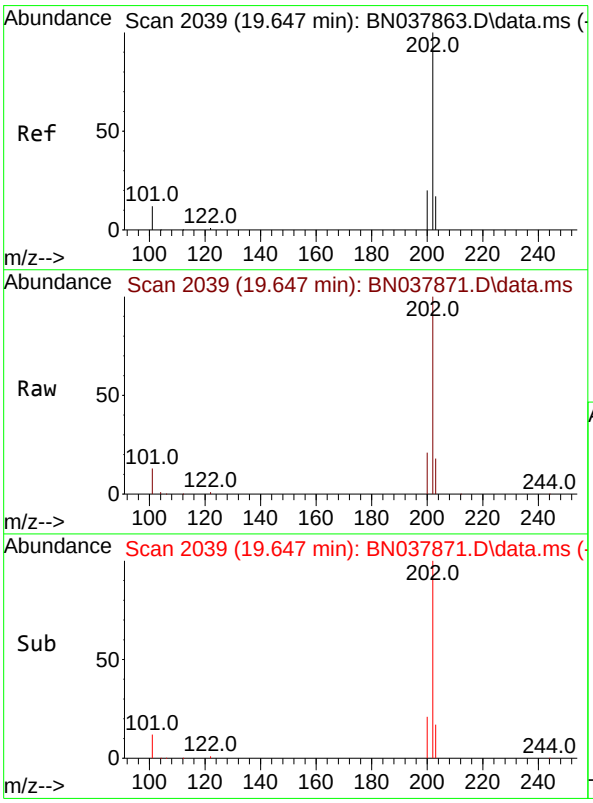
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 15660

Ion	Ratio	Lower	Upper
240	100		
120	16.3	11.4	17.2
236	29.1	23.0	34.6

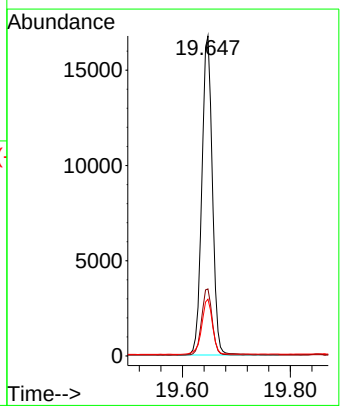


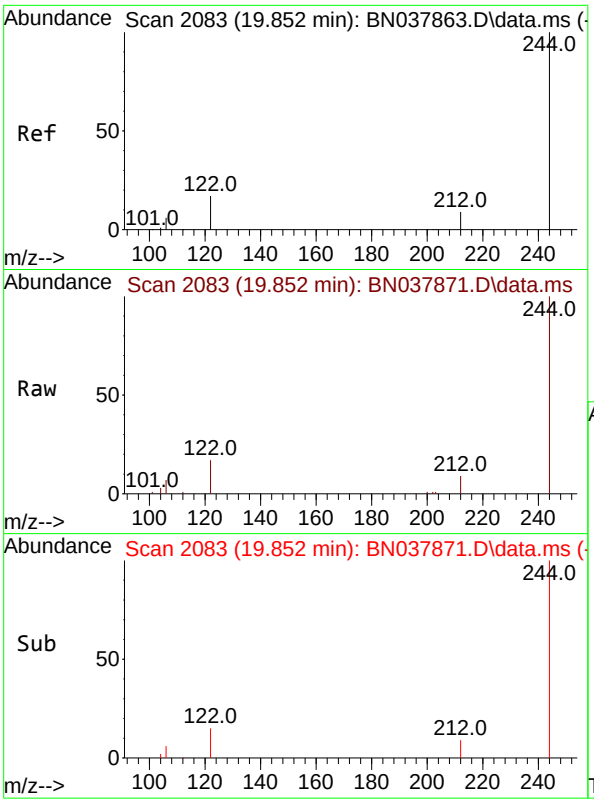


#30
Pyrene
Concen: 0.367 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:202 Resp: 22662

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	17.8	14.2	21.4



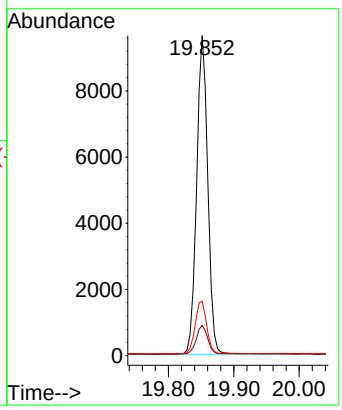


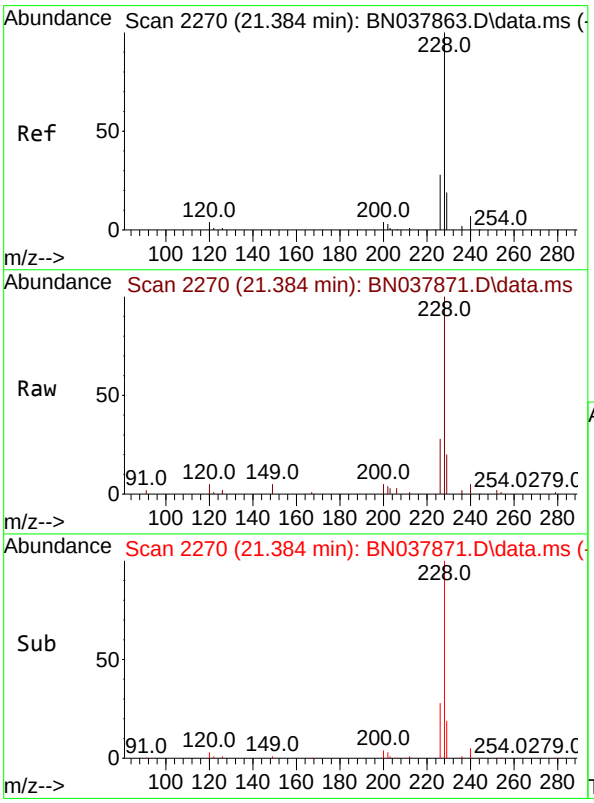
#31
Terphenyl-d14
Concen: 0.364 ng
RT: 19.852 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 11356

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.6	11.4
122	17.0	13.9	20.9

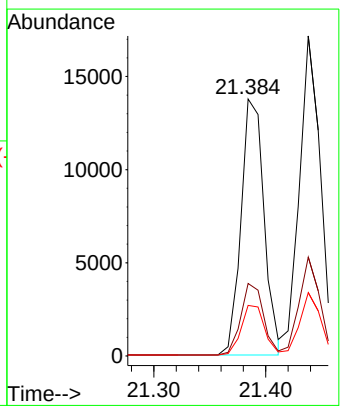


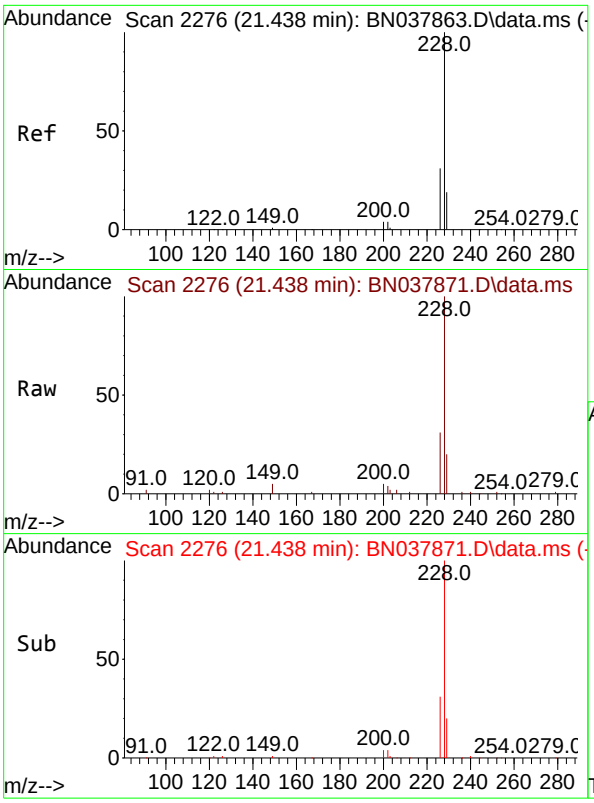


#32
Benzo(a)anthracene
Concen: 0.360 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:228 Resp: 19693

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	19.7	15.6	23.4



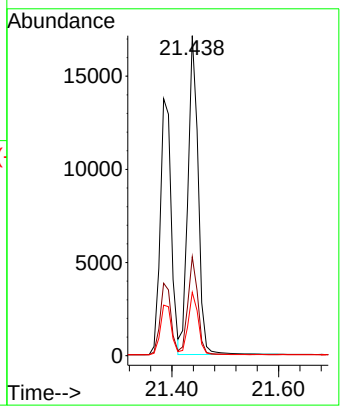


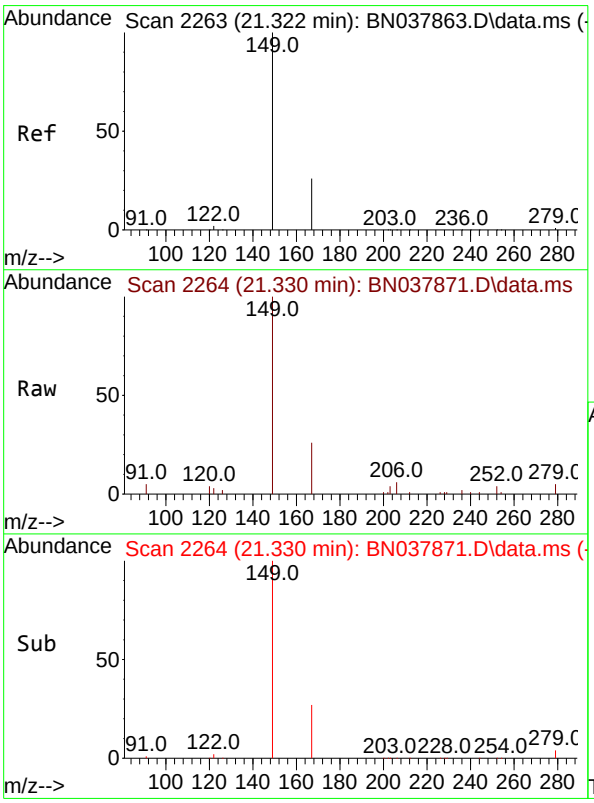
#33
Chrysene
Concen: 0.384 ng
RT: 21.438 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 22733

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	19.8	15.6	23.4

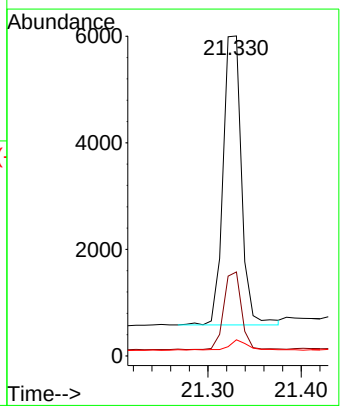


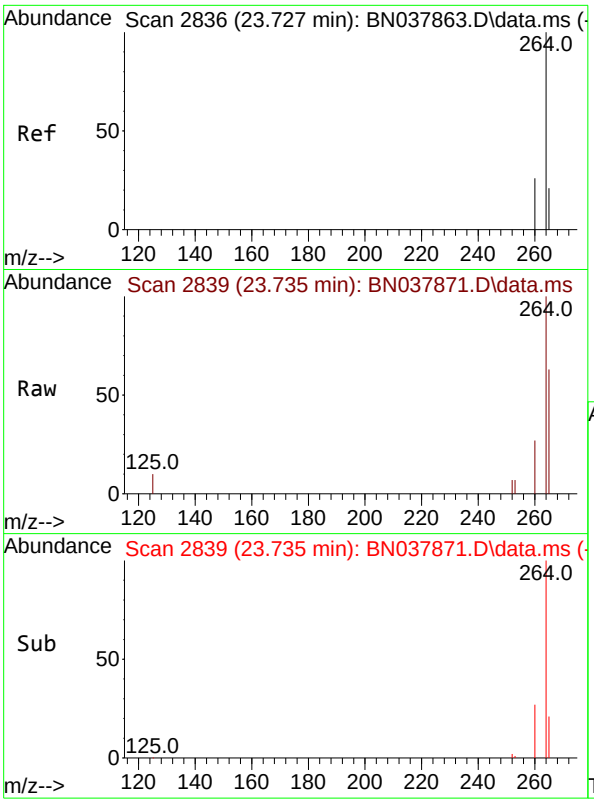


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.343 ng
RT: 21.330 min Scan# 2264
Delta R.T. 0.009 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:149 Resp: 7423

Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.4	30.6
279	3.5	2.4	3.6



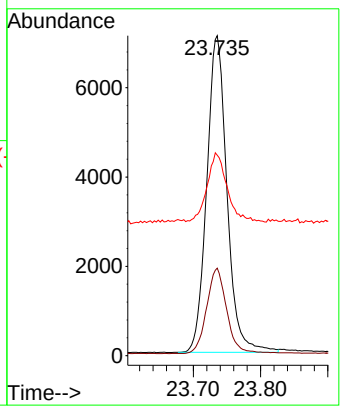


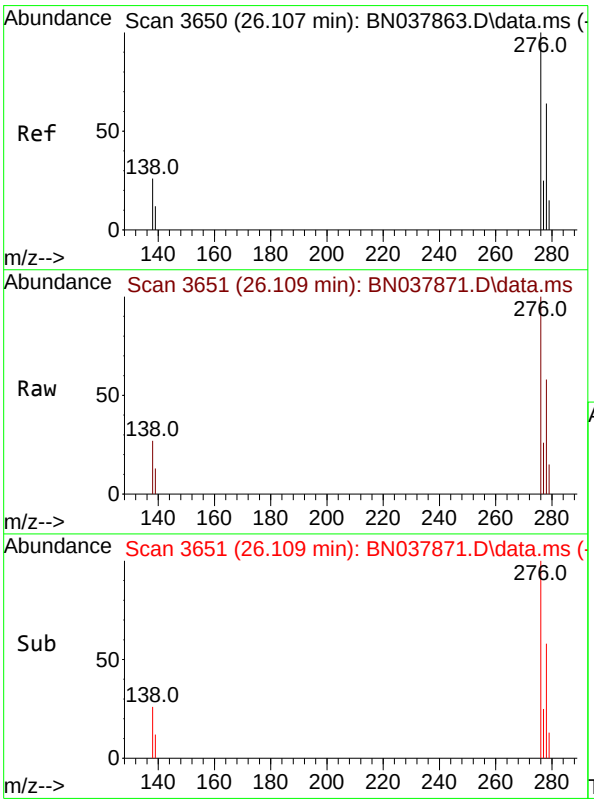
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.735 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 14846

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.5	32.3
265	62.7	53.8	80.6

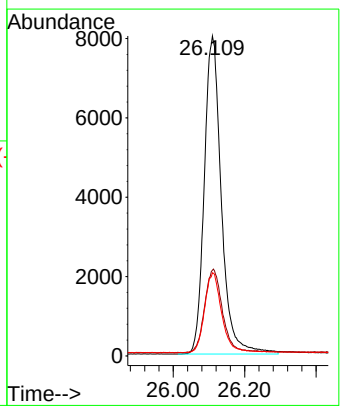


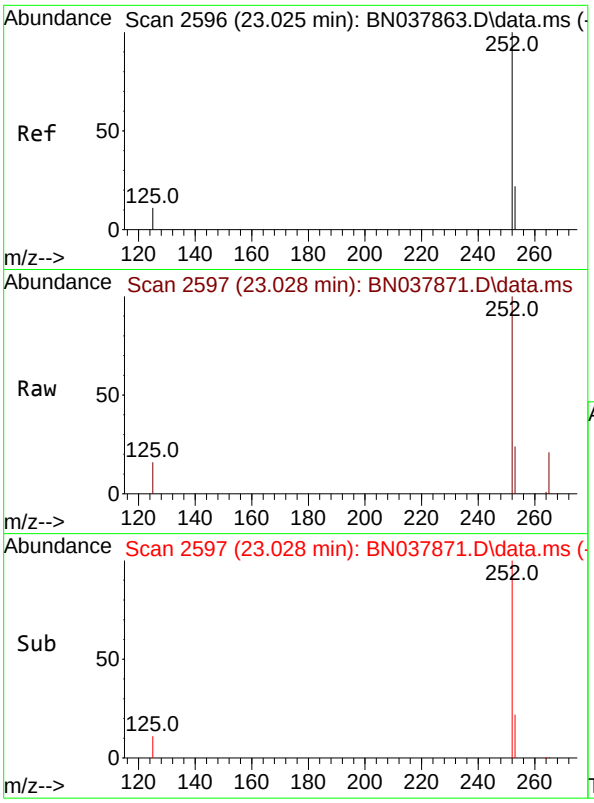


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.393 ng
RT: 26.109 min Scan# 3651
Delta R.T. 0.003 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:276 Resp: 26646

Ion	Ratio	Lower	Upper
276	100		
138	27.2	21.4	32.0
277	25.1	20.3	30.5



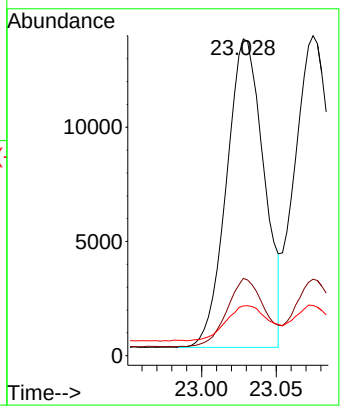


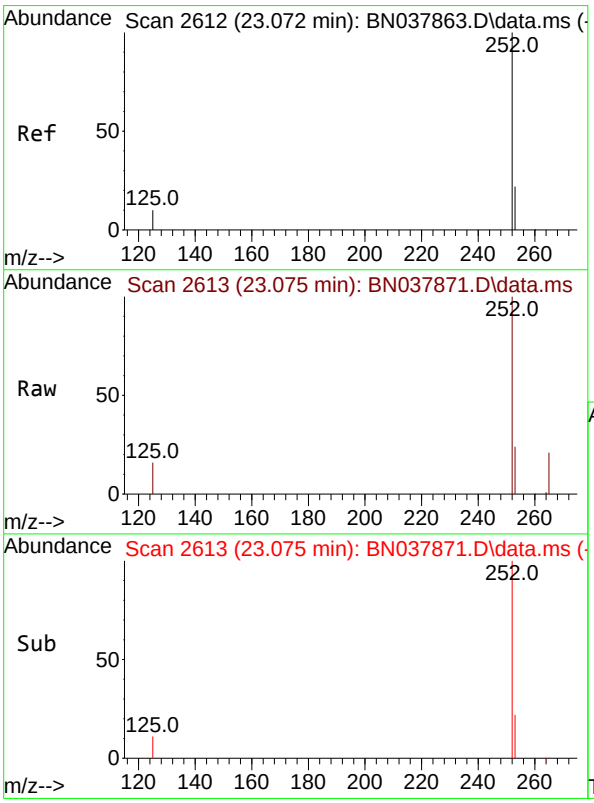
#37
Benzo(b)fluoranthene
Concen: 0.368 ng
RT: 23.028 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 23575

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.4	29.0
125	15.7	13.0	19.4

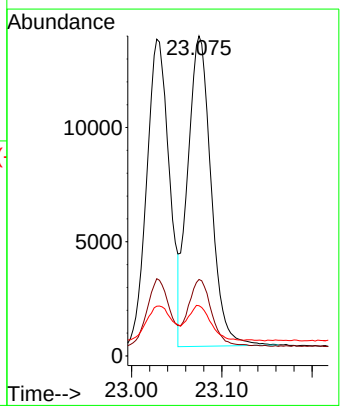


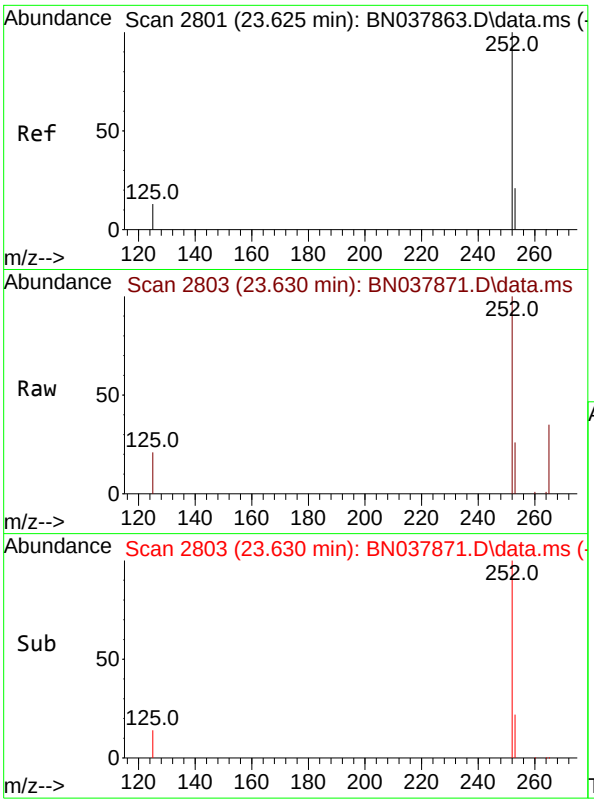


#38
Benzo(k)fluoranthene
Concen: 0.379 ng
RT: 23.075 min Scan# 2613
Delta R.T. 0.003 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:252 Resp: 24415

Ion	Ratio	Lower	Upper
252	100		
253	23.9	19.5	29.3
125	15.7	13.0	19.4



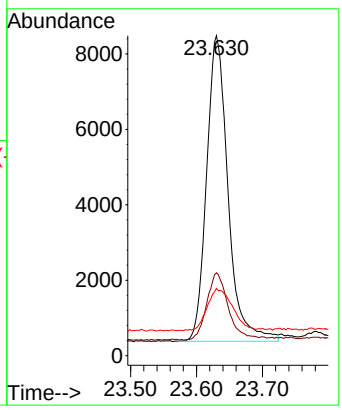


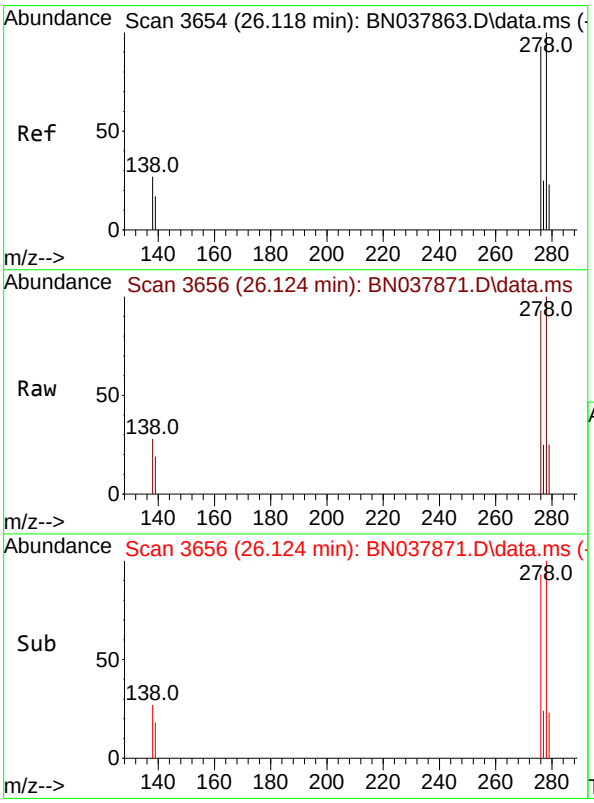
#39
Benzo(a)pyrene
Concen: 0.362 ng
RT: 23.630 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 18325

Ion	Ratio	Lower	Upper
252	100		
253	25.9	20.6	30.8
125	21.1	16.7	25.1

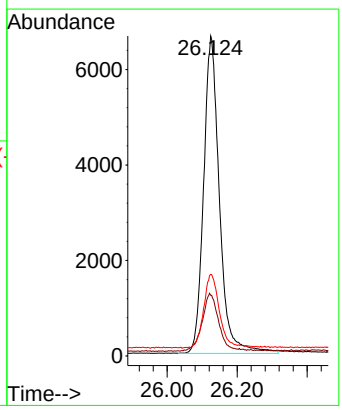


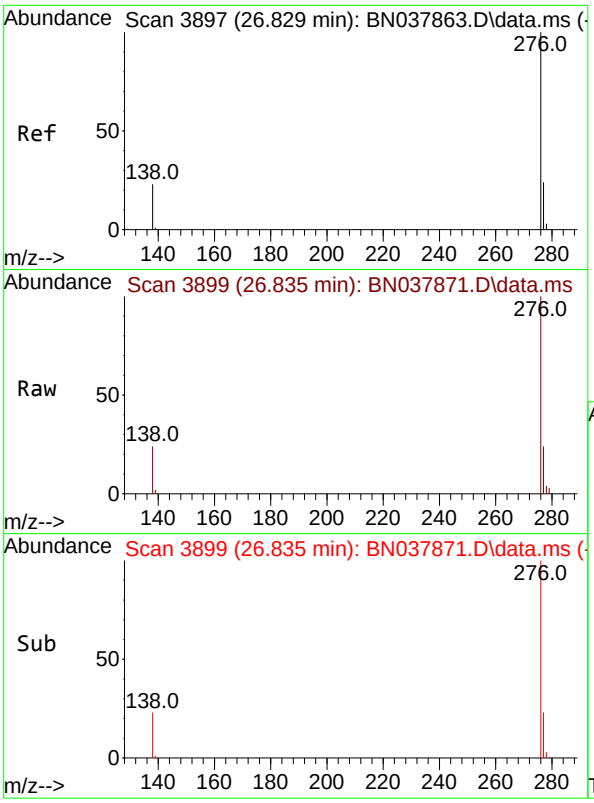


#40
Dibenzo(a,h)anthracene
Concen: 0.394 ng
RT: 26.124 min Scan# 3656
Delta R.T. 0.006 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:278 Resp: 20887

Ion	Ratio	Lower	Upper
278	100		
139	19.0	15.4	23.2
279	25.5	20.8	31.2



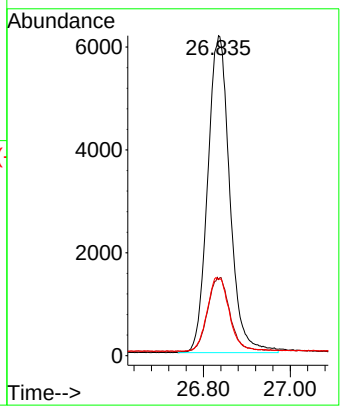


#41
Benzo(g,h,i)perylene
Concen: 0.391 ng
RT: 26.835 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 21736

Ion	Ratio	Lower	Upper
276	100		
277	23.8	20.2	30.4
138	24.1	19.8	29.8



Sample Results: **BN037871.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037871.D
Acq On : 24 Sep 2025 09:54
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 24 11:11:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
2		1,4-Dioxane	0.406	0.419	-3.2	110	0.00
3		n-Nitrosodimethylamine	0.540	0.531	1.7	111	0.00
4	S	2-Fluorophenol	0.913	0.826	9.5	104	0.00
5	S	Phenol-d6	1.199	1.076	10.3	104	0.00
6		bis(2-Chloroethyl)ether	1.113	1.065	4.3	106	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
8	S	Nitrobenzene-d5	0.305	0.287	5.9	106	0.00
9		Naphthalene	1.102	1.058	4.0	108	0.00
10		Hexachlorobutadiene	0.188	0.185	1.6	108	0.00
11	SURR	2-Methylnaphthalene-d10	0.556	0.502	9.7	108	0.00
12		2-Methylnaphthalene	0.720	0.669	7.1	107	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00
14	S	2,4,6-Tribromophenol	0.152	0.122	19.7	96	0.00
15	S	2-Fluorobiphenyl	1.638	1.579	3.6	108	0.00
16		Acenaphthylene	1.816	1.680	7.5	108	0.00
17		Acenaphthene	1.294	1.213	6.3	108	0.00
18		Fluorene	1.565	1.505	3.8	110	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	111	0.00
20		4,6-Dinitro-2-methylphenol	0.057	0.039	31.6#	100	0.00
21		4-Bromophenyl-phenylether	0.261	0.232	11.1	105	0.00
22		Hexachlorobenzene	0.316	0.305	3.5	111	0.00
23		Atrazine	0.199	0.168	15.6	109	-0.01
24		Pentachlorophenol	0.108	0.090	16.7	109	0.00
25		Phenanthrene	1.316	1.208	8.2	109	0.00
26		Anthracene	1.142	1.005	12.0	109	0.00
27	SURR	Fluoranthene-d10	1.006	0.885	12.0	111	0.00
28		Fluoranthene	1.450	1.301	10.3	110	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	115	0.00
30		Pyrene	1.579	1.447	8.4	110	0.00
31	S	Terphenyl-d14	0.797	0.725	9.0	111	0.00
32		Benzo(a)anthracene	1.398	1.258	10.0	112	0.00
33		Chrysene	1.512	1.452	4.0	115	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.474	14.3	112	0.00
35	I	Perylene-d12	1.000	1.000	0.0	118	0.00
36		Indeno(1,2,3-cd)pyrene	1.828	1.795	1.8	128	0.00
37		Benzo(b)fluoranthene	1.725	1.588	7.9	114	0.00
38		Benzo(k)fluoranthene	1.736	1.645	5.2	122	0.00
39	C	Benzo(a)pyrene	1.364	1.234	9.5	118	0.00
40		Dibenzo(a,h)anthracene	1.427	1.407	1.4	127	0.00
41		Benzo(g,h,i)perylene	1.499	1.464	2.3	123	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Evaluate Continuing Calibration Report

Sample Results: **BN037871.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037871.D
Acq On : 24 Sep 2025 09:54
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 24 11:11:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	108	0.00
2		1,4-Dioxane	0.400	0.413	-3.2	110	0.00
3		n-Nitrosodimethylamine	0.400	0.393	1.8	111	0.00
4	S	2-Fluorophenol	0.400	0.362	9.5	104	0.00
5	S	Phenol-d6	0.400	0.359	10.3	104	0.00
6		bis(2-Chloroethyl)ether	0.400	0.383	4.3	106	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	107	0.00
8	S	Nitrobenzene-d5	0.400	0.377	5.8	106	0.00
9		Naphthalene	0.400	0.384	4.0	108	0.00
10		Hexachlorobutadiene	0.400	0.393	1.8	108	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.361	9.8	108	0.00
12		2-Methylnaphthalene	0.400	0.372	7.0	107	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	107	0.00
14	S	2,4,6-Tribromophenol	0.400	0.321	19.8	96	0.00
15	S	2-Fluorobiphenyl	0.400	0.386	3.5	108	0.00
16		Acenaphthylene	0.400	0.370	7.5	108	0.00
17		Acenaphthene	0.400	0.375	6.3	108	0.00
18		Fluorene	0.400	0.385	3.8	110	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	111	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.373	6.8	100	0.00
21		4-Bromophenyl-phenylether	0.400	0.356	11.0	105	0.00
22		Hexachlorobenzene	0.400	0.386	3.5	111	0.00
23		Atrazine	0.400	0.339	15.3	109	-0.01
24		Pentachlorophenol	0.400	0.333	16.8	109	0.00
25		Phenanthrene	0.400	0.367	8.3	109	0.00
26		Anthracene	0.400	0.352	12.0	109	0.00
27	SURR	Fluoranthene-d10	0.400	0.352	12.0	111	0.00
28		Fluoranthene	0.400	0.359	10.3	110	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	115	0.00
30		Pyrene	0.400	0.367	8.3	110	0.00
31	S	Terphenyl-d14	0.400	0.364	9.0	111	0.00
32		Benzo(a)anthracene	0.400	0.360	10.0	112	0.00
33		Chrysene	0.400	0.384	4.0	115	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.343	14.2	112	0.00
35	I	Perylene-d12	0.400	0.400	0.0	118	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.393	1.8	128	0.00
37		Benzo(b)fluoranthene	0.400	0.368	8.0	114	0.00
38		Benzo(k)fluoranthene	0.400	0.379	5.3	122	0.00
39	C	Benzo(a)pyrene	0.400	0.362	9.5	118	0.00
40		Dibenzo(a,h)anthracene	0.400	0.394	1.5	127	0.00
41		Benzo(g,h,i)perylene	0.400	0.391	2.3	123	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	BNA_N	Calibration Date/Time:	09/24/2025 18:52
Lab File ID:	BN037881.D	Init. Calib. Date(s):	09/23/2025 09/23/2025
EPA Sample No.:	SSTDCCC0.4EC	Init. Calib. Time(s):	12:13 15:51

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.497		-10.6	50.0
Fluoranthene-d10	1.006	0.905		-10.0	50.0
2-Fluorophenol	0.913	0.873		-4.4	50.0
Phenol-d6	1.199	1.142		-4.8	50.0
Nitrobenzene-d5	0.305	0.291		-4.6	50.0
2-Fluorobiphenyl	1.638	1.569		-4.2	50.0
2,4,6-Tribromophenol	0.152	0.123		-19.1	50.0
Terphenyl-d14	0.797	0.758		-4.9	50.0
1,4-Dioxane	0.406	0.418		3.0	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037881.D
Acq On : 24 Sep 2025 18:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 25 11:38:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

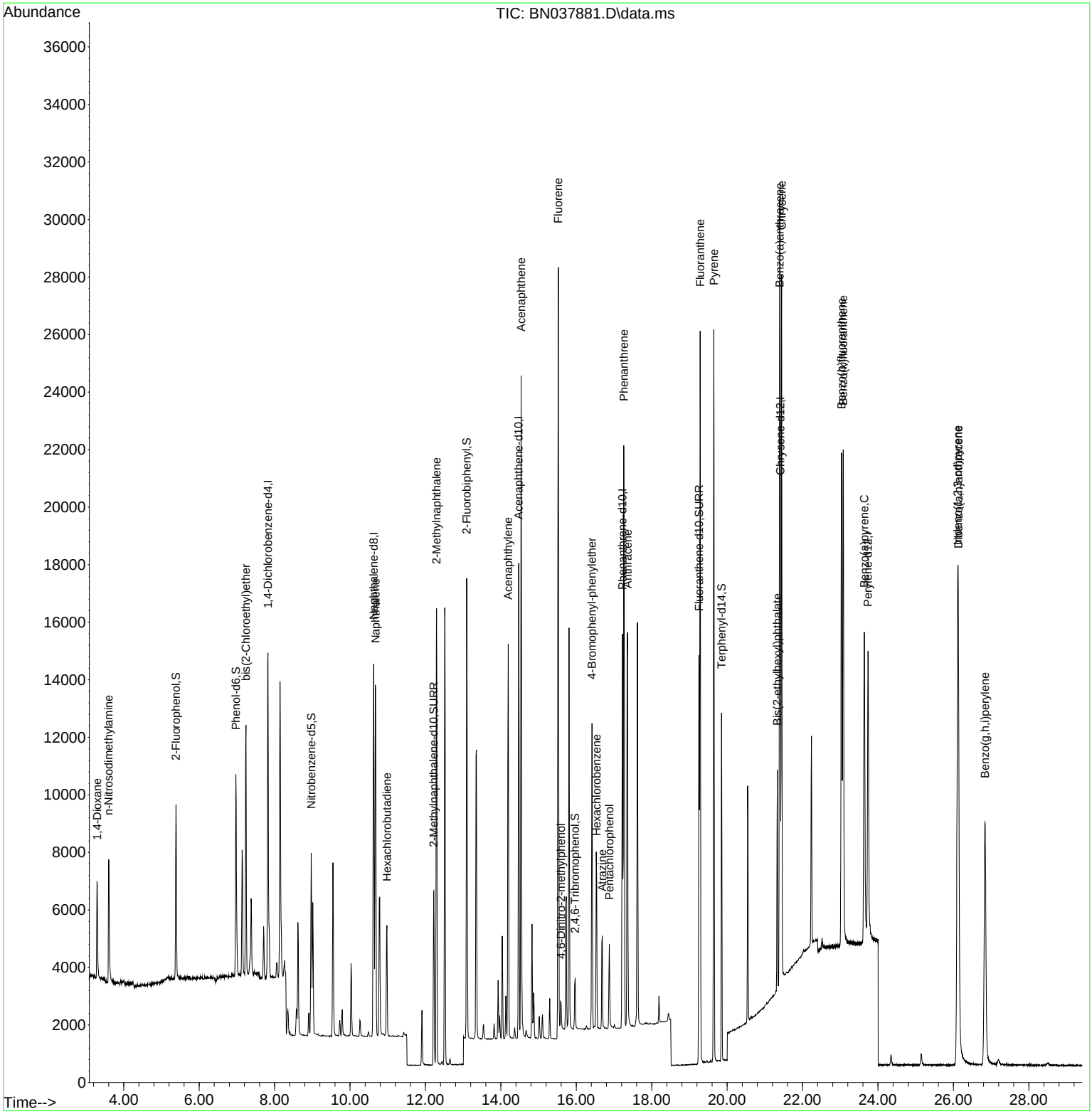
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.825	152	5658	0.400	ng		0.00
7) Naphthalene-d8	10.626	136	16582	0.400	ng		0.00
13) Acenaphthene-d10	14.473	164	8733	0.400	ng		0.00
19) Phenanthrene-d10	17.223	188	17039	0.400	ng		0.00
29) Chrysene-d12	21.411	240	14774	0.400	ng	#	0.00
35) Perylene-d12	23.736	264	14018	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.384	112	4939	0.383	ng		0.00
5) Phenol-d6	6.973	99	6464	0.381	ng		0.00
8) Nitrobenzene-d5	8.971	82	4819	0.381	ng		0.00
11) 2-Methylnaphthalene-d10	12.217	152	8248	0.358	ng		0.00
14) 2,4,6-Tribromophenol	15.969	330	1070	0.323	ng		0.00
15) 2-Fluorobiphenyl	13.094	172	13700	0.383	ng		0.00
27) Fluoranthene-d10	19.252	212	15414	0.360	ng		0.00
31) Terphenyl-d14	19.852	244	11204	0.381	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	2366	0.412	ng		98
3) n-Nitrosodimethylamine	3.600	42	2881	0.377	ng	#	91
6) bis(2-Chloroethyl)ether	7.240	93	6204	0.394	ng		98
9) Naphthalene	10.680	128	17423	0.381	ng		99
10) Hexachlorobutadiene	10.979	225	3100	0.398	ng	#	99
12) 2-Methylnaphthalene	12.293	142	11103	0.372	ng		99
16) Acenaphthylene	14.195	152	14549	0.367	ng		99
17) Acenaphthene	14.537	154	10482	0.371	ng		100
18) Fluorene	15.522	166	12896	0.377	ng		99
20) 4,6-Dinitro-2-methylph...	15.597	198	709	0.391	ng		93
21) 4-Bromophenyl-phenylether	16.416	248	3946	0.355	ng		98
22) Hexachlorobenzene	16.540	284	5118	0.380	ng		99
23) Atrazine	16.689	200	2883	0.341	ng		98
24) Pentachlorophenol	16.875	266	1462	0.316	ng		97
25) Phenanthrene	17.260	178	20733	0.370	ng		100
26) Anthracene	17.359	178	17038	0.350	ng		100
28) Fluoranthene	19.285	202	22543	0.365	ng		99
30) Pyrene	19.647	202	22384	0.384	ng		100
32) Benzo(a)anthracene	21.393	228	19039	0.369	ng		99
33) Chrysene	21.447	228	21409	0.383	ng		98
34) Bis(2-ethylhexyl)phtha...	21.331	149	7181	0.352	ng	#	99
36) Indeno(1,2,3-cd)pyrene	26.112	276	24080	0.376	ng		98
37) Benzo(b)fluoranthene	23.034	252	22276	0.368	ng		99
38) Benzo(k)fluoranthene	23.078	252	23621	0.388	ng		100
39) Benzo(a)pyrene	23.636	252	17488	0.366	ng		98
40) Dibenzo(a,h)anthracene	26.130	278	18802	0.376	ng		99
41) Benzo(g,h,i)perylene	26.838	276	18990	0.361	ng		100

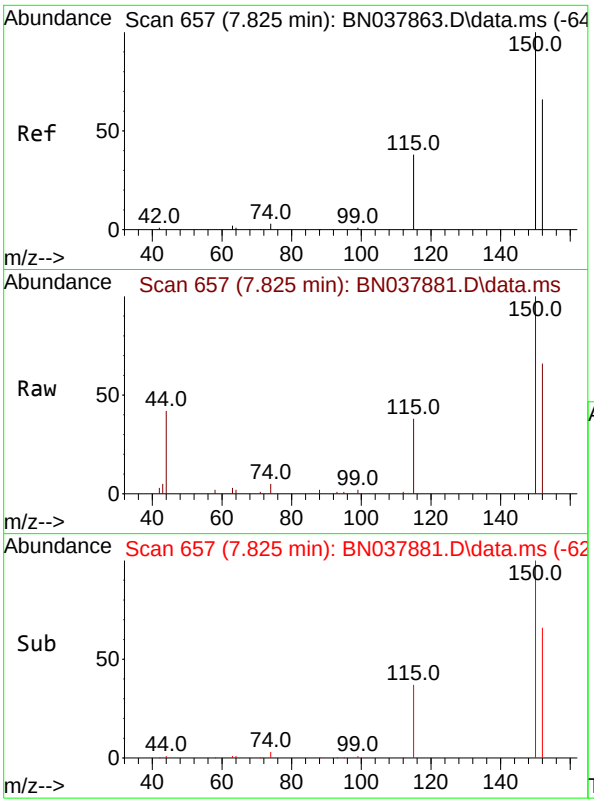
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037881.D
Acq On : 24 Sep 2025 18:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 25 11:38:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



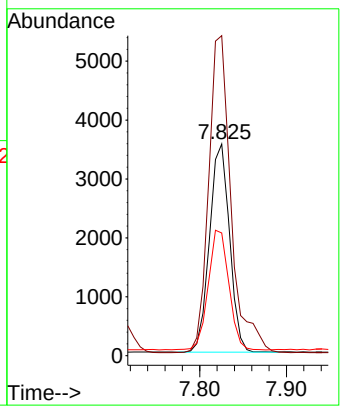


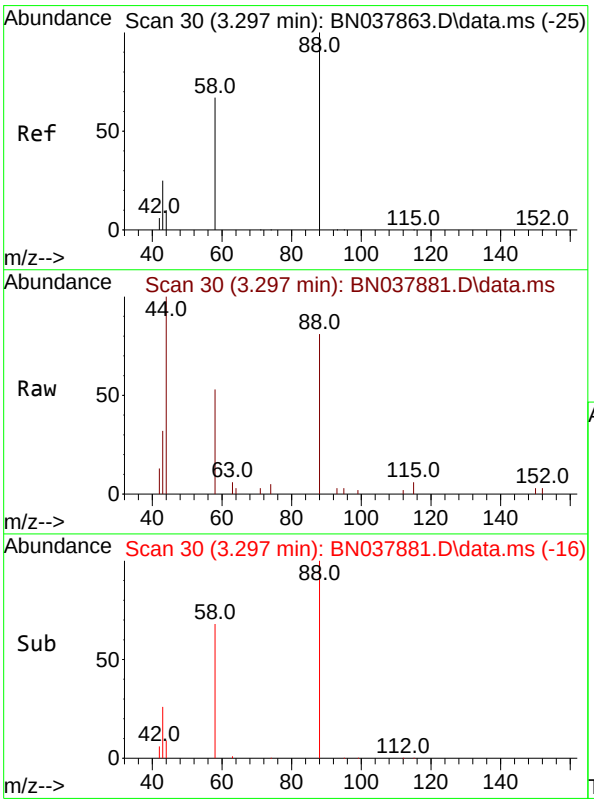
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 5658

Ion	Ratio	Lower	Upper
152	100		
150	151.1	121.0	181.4
115	57.9	47.4	71.0

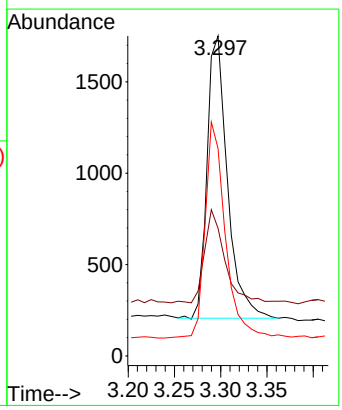


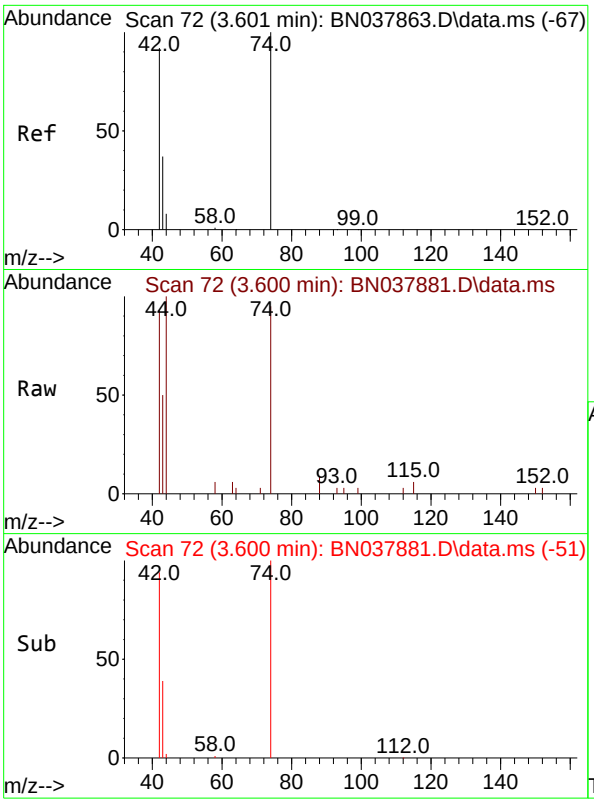


#2
1,4-Dioxane
Concen: 0.412 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion: 88 Resp: 2366

Ion	Ratio	Lower	Upper
88	100		
43	32.8	26.6	39.8
58	75.9	58.9	88.3



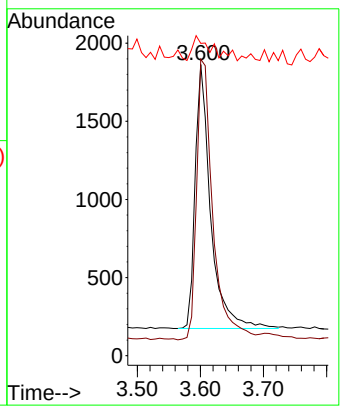


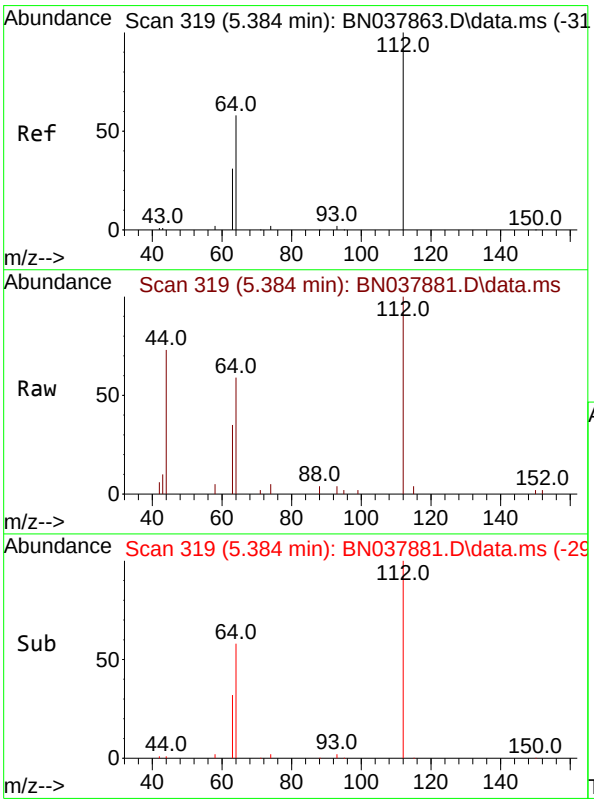
#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.600 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 2881

Ion	Ratio	Lower	Upper
42	100		
74	111.6	93.4	140.0
44	13.0	22.2	33.4#

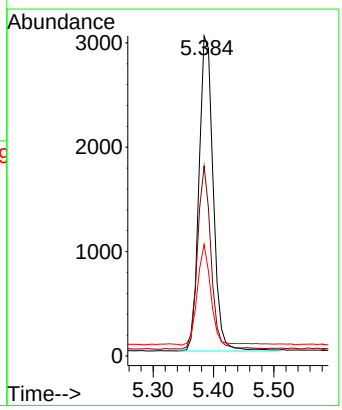


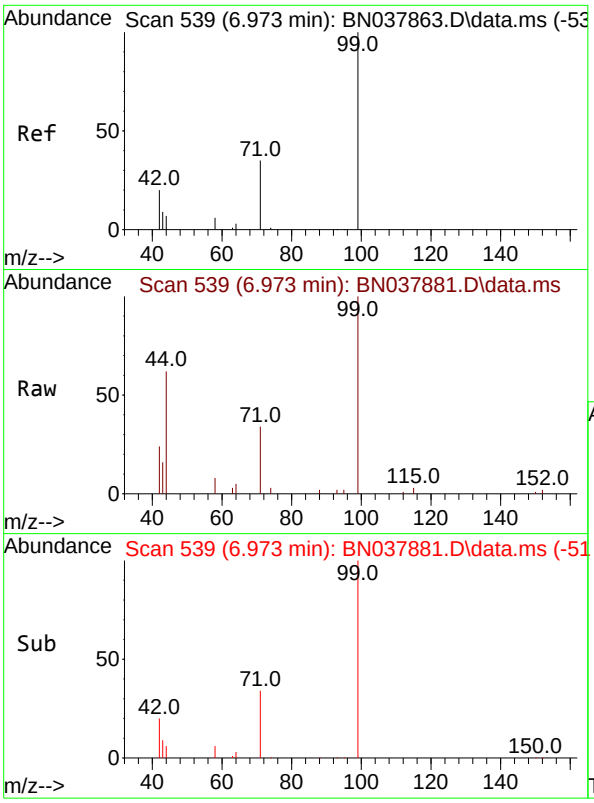


#4
2-Fluorophenol
Concen: 0.383 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:112 Resp: 4939

Ion	Ratio	Lower	Upper
112	100		
64	54.6	44.6	66.8
63	29.9	24.9	37.3



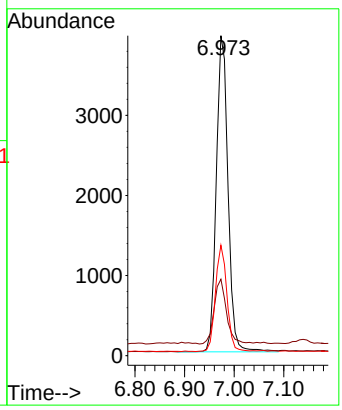


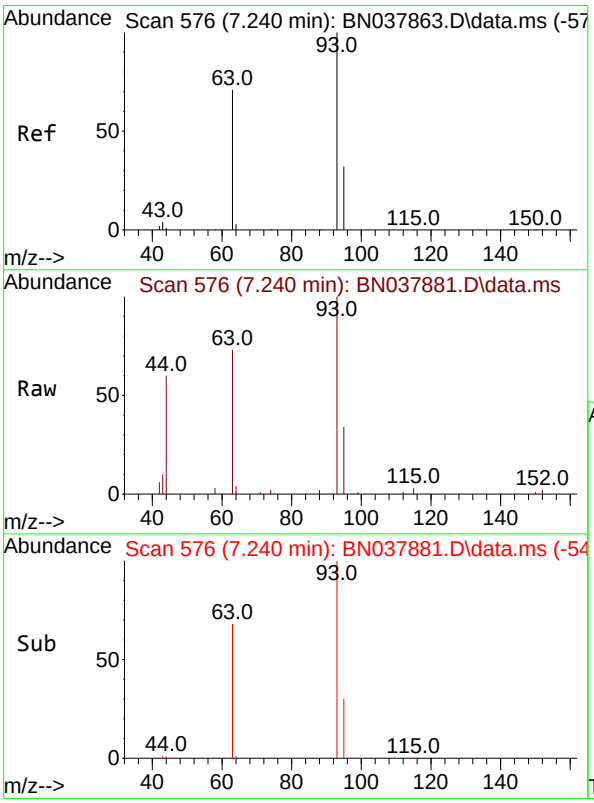
#5
Phenol-d6
Concen: 0.381 ng
RT: 6.973 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 6464

Ion	Ratio	Lower	Upper
99	100		
42	21.7	17.2	25.8
71	32.9	27.3	40.9

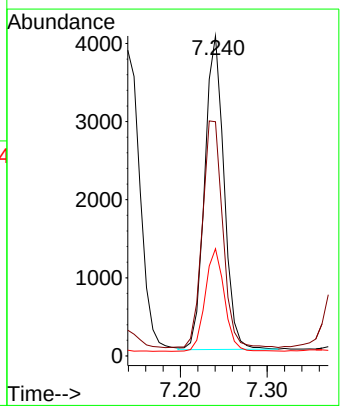


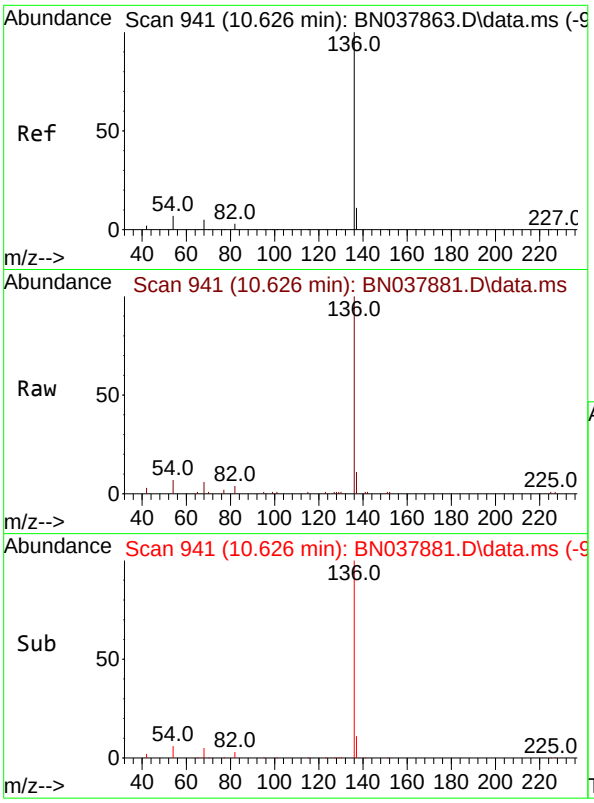


#6
bis(2-Chloroethyl)ether
Concen: 0.394 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion: 93 Resp: 6204

Ion	Ratio	Lower	Upper
93	100		
63	76.7	60.1	90.1
95	32.7	25.4	38.2



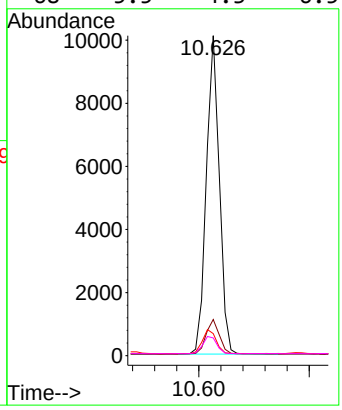


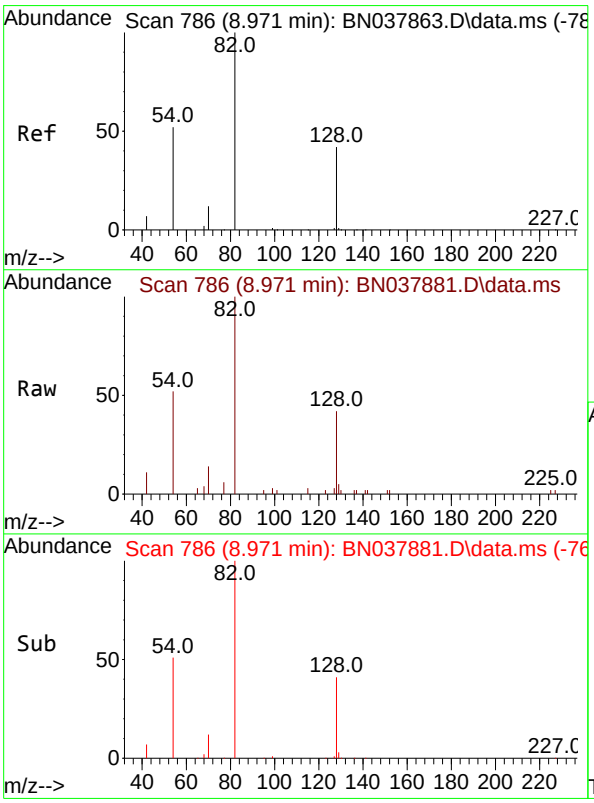
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 16582

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	6.9	5.8	8.8
68	5.5	4.3	6.5

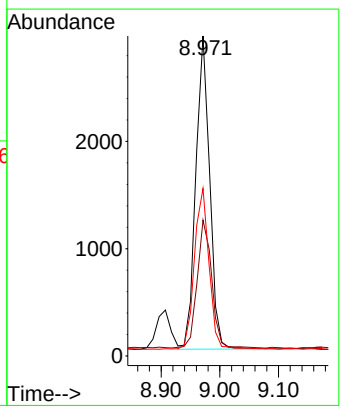


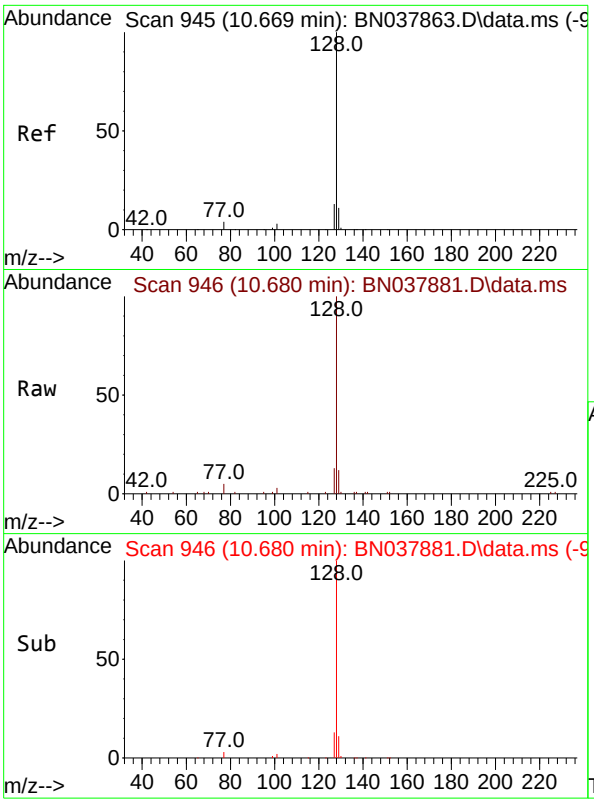


#8
Nitrobenzene-d5
Concen: 0.381 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion: 82 Resp: 4819

Ion	Ratio	Lower	Upper
82	100		
128	42.5	34.8	52.2
54	52.3	42.2	63.2



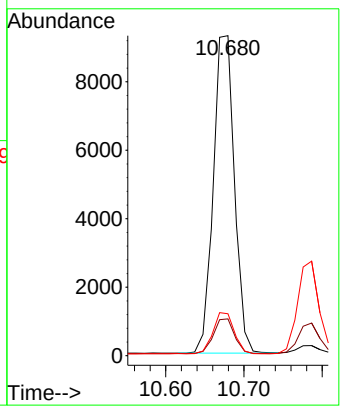


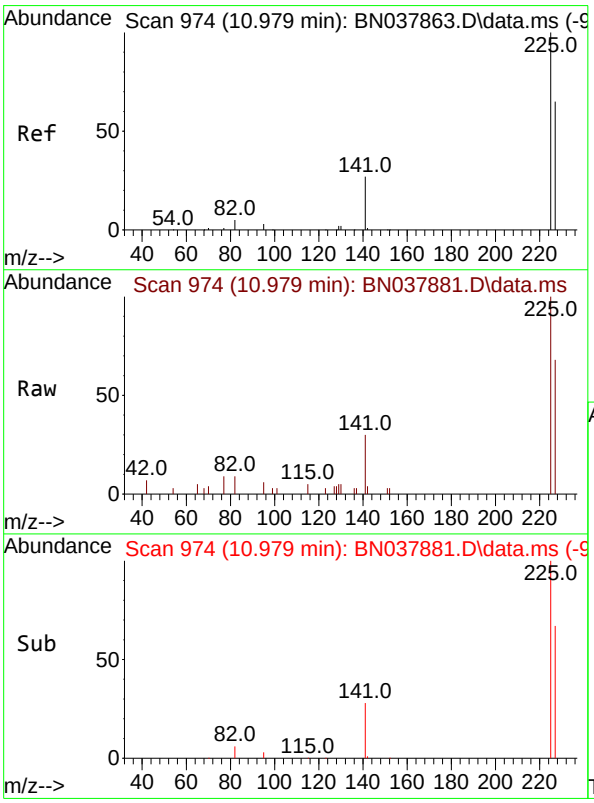
#9
Naphthalene
Concen: 0.381 ng
RT: 10.680 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 17423

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	13.1	11.0	16.6

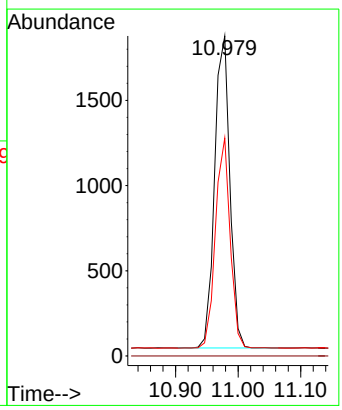


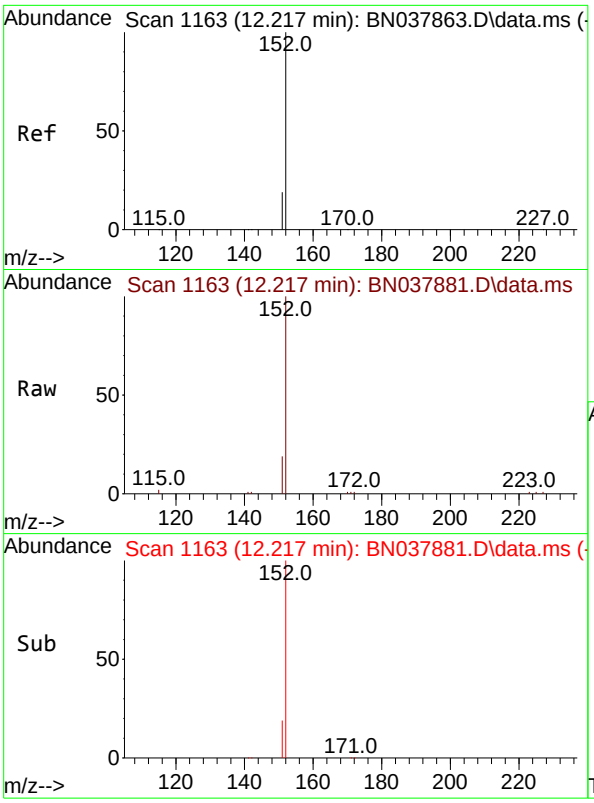


#10
Hexachlorobutadiene
Concen: 0.398 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:225 Resp: 3100

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.2	51.4	77.2



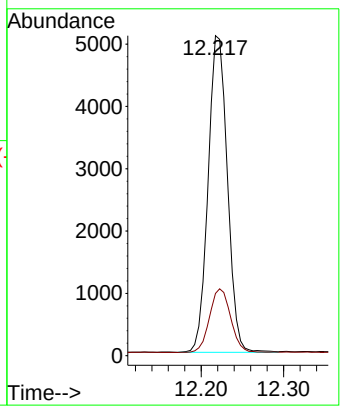


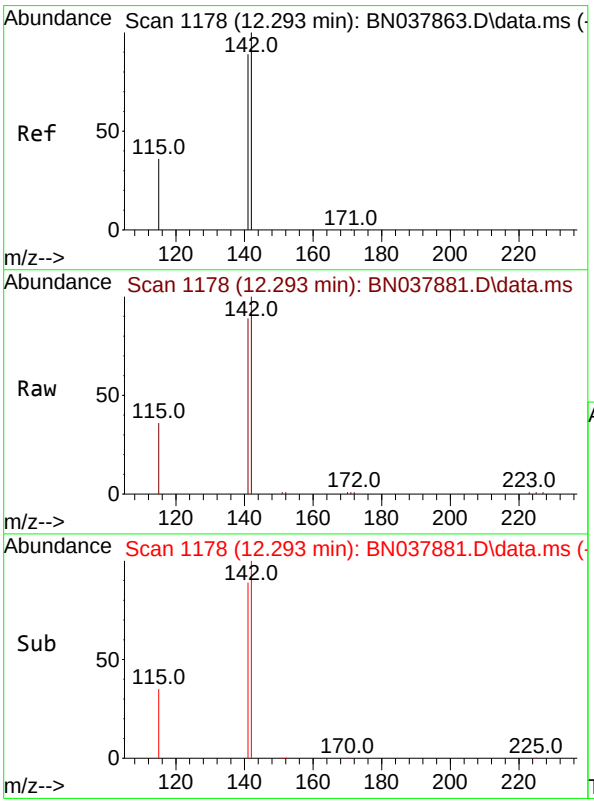
#11
2-Methylnaphthalene-d10
Concen: 0.358 ng
RT: 12.217 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 8248

Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.4	26.2

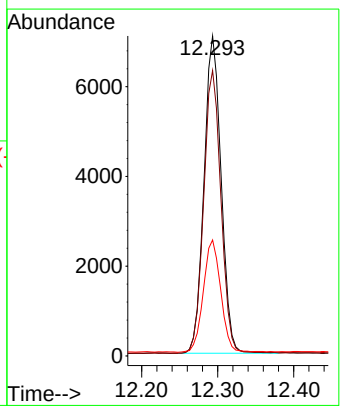


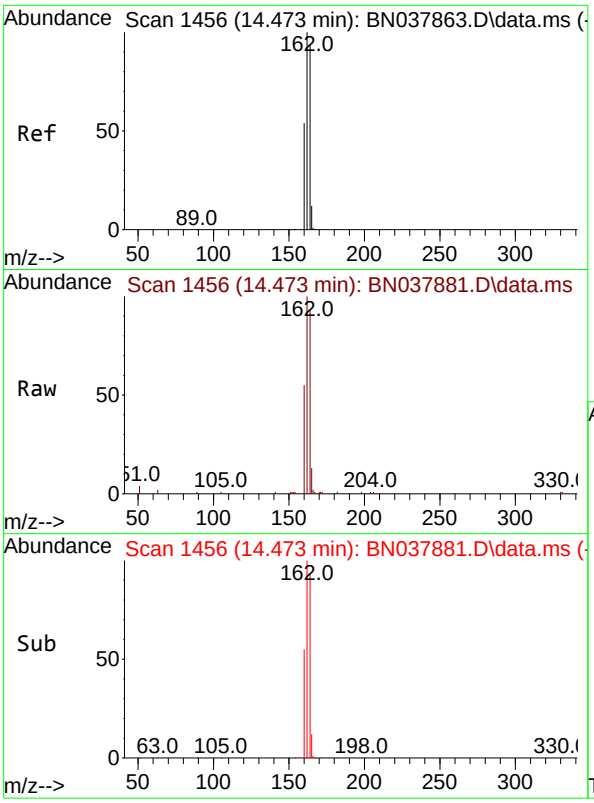


#12
2-Methylnaphthalene
Concen: 0.372 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:142 Resp: 11103

Ion	Ratio	Lower	Upper
142	100		
141	89.2	71.2	106.8
115	36.2	29.7	44.5



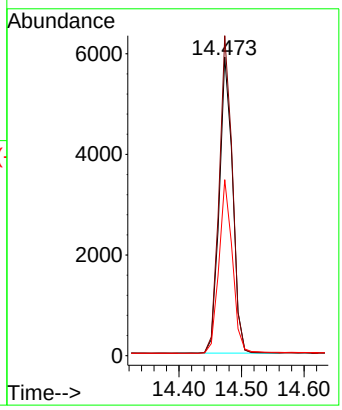


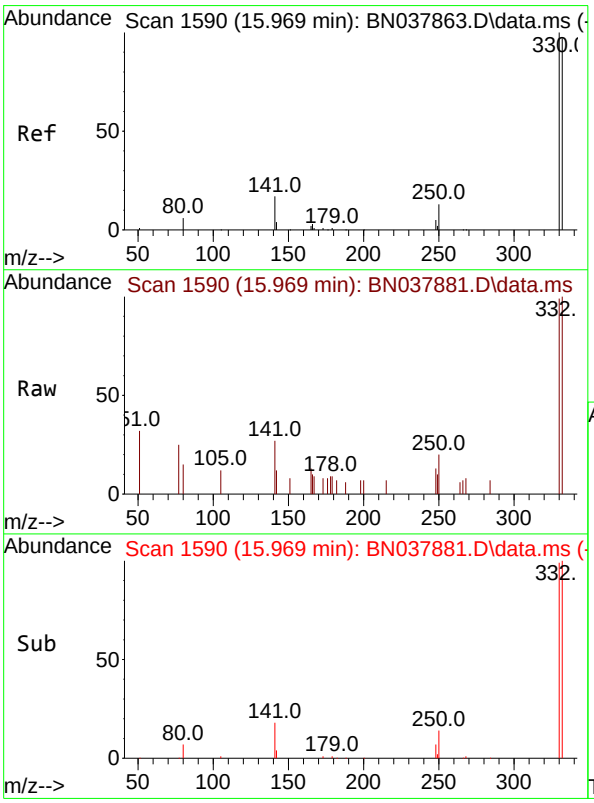
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 8733

Ion	Ratio	Lower	Upper
164	100		
162	107.1	84.8	127.2
160	58.9	46.1	69.1

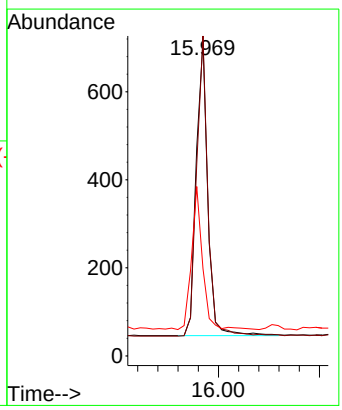


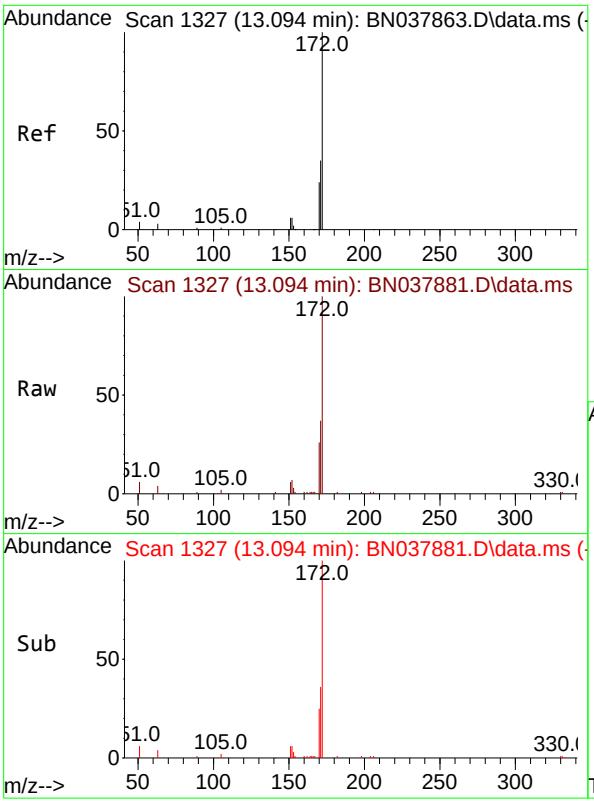


#14
2,4,6-Tribromophenol
Concen: 0.323 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:330 Resp: 1070

Ion	Ratio	Lower	Upper
330	100		
332	99.2	77.2	115.8
141	46.0	37.2	55.8



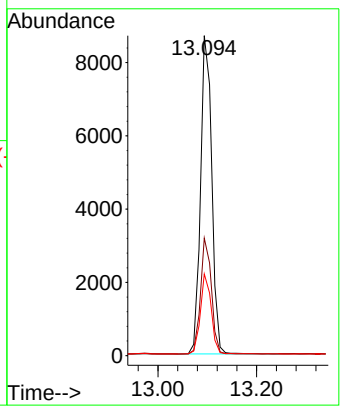


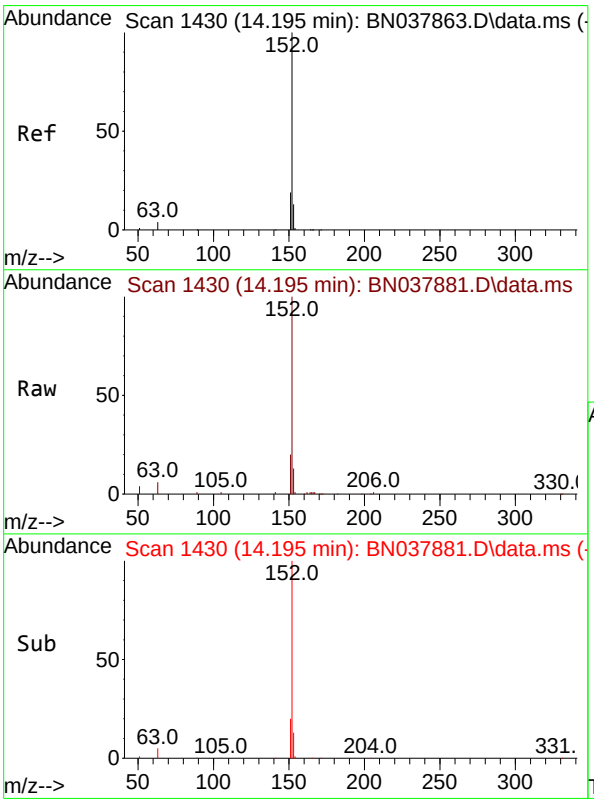
#15
2-Fluorobiphenyl
Concen: 0.383 ng
RT: 13.094 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 13700

Ion	Ratio	Lower	Upper
172	100		
171	36.8	28.6	43.0
170	25.5	19.7	29.5

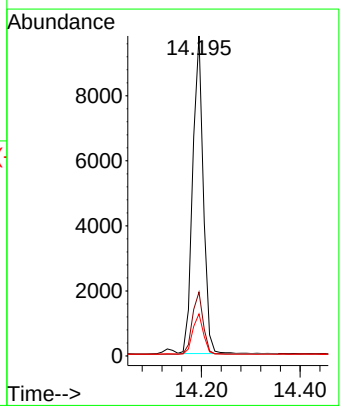


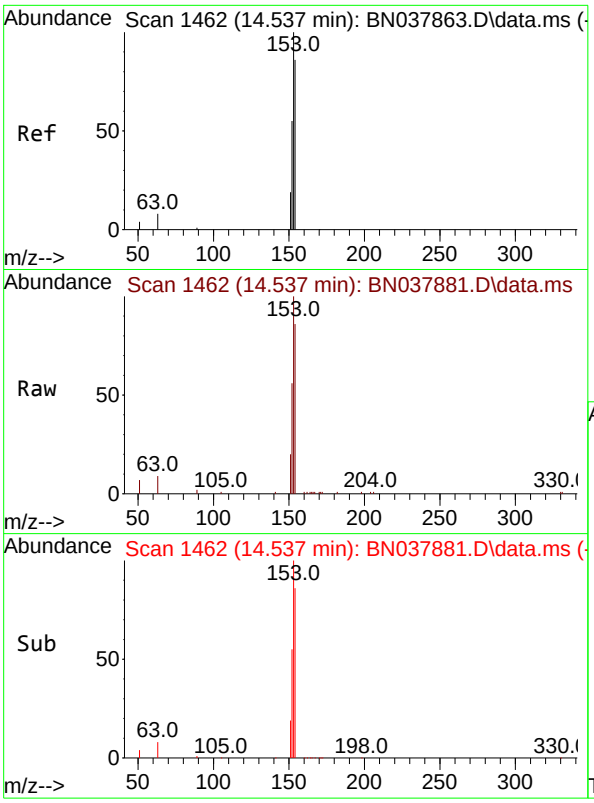


#16
Acenaphthylene
Concen: 0.367 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:152 Resp: 14549

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	12.7	10.5	15.7



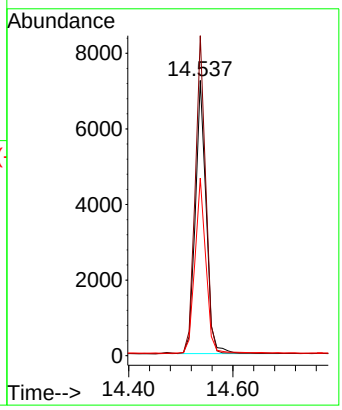


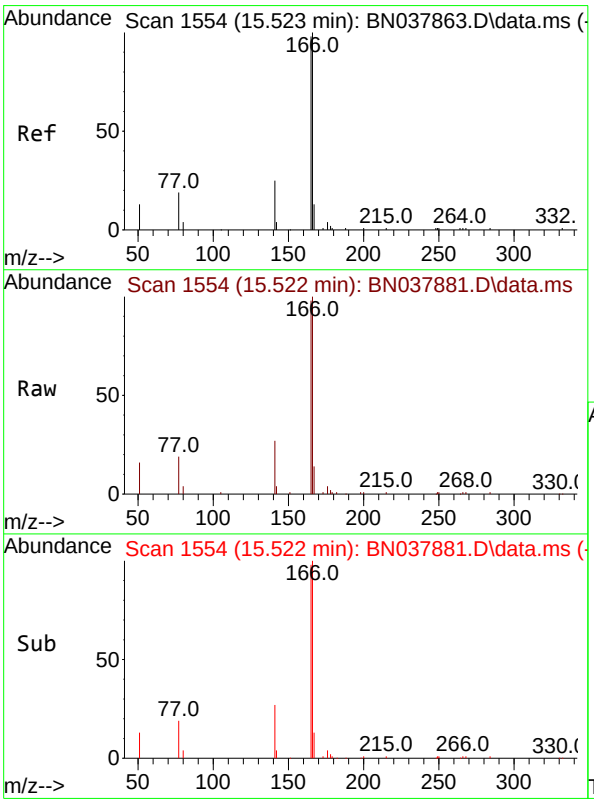
#17
Acenaphthene
Concen: 0.371 ng
RT: 14.537 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 10482

Ion	Ratio	Lower	Upper
154	100		
153	113.6	90.5	135.7
152	64.9	51.8	77.8

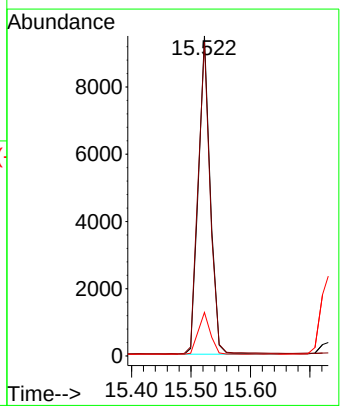


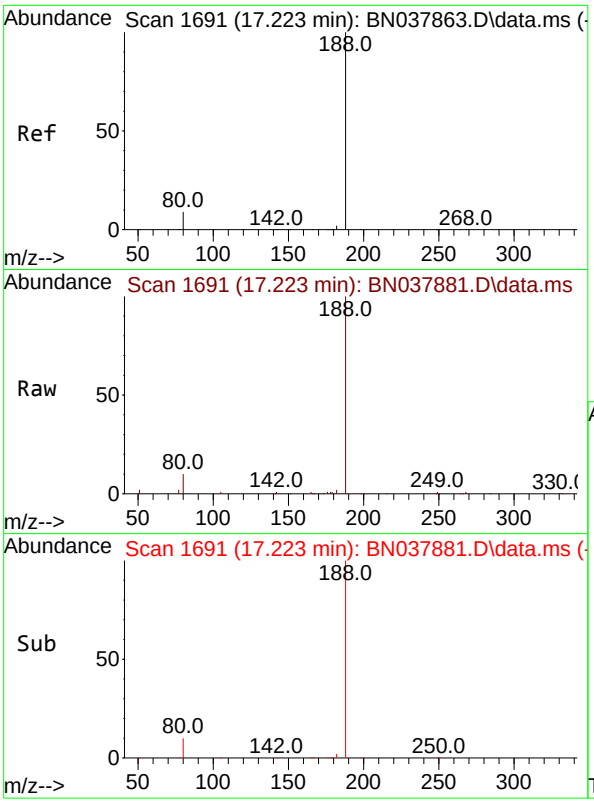


#18
Fluorene
Concen: 0.377 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:166 Resp: 12896

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.0	118.4
167	13.3	10.6	16.0



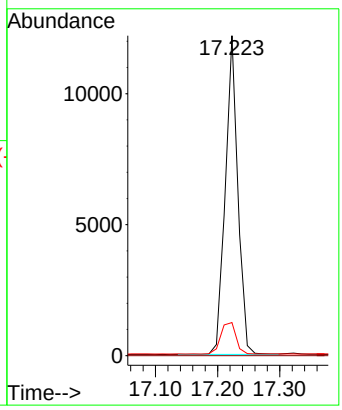


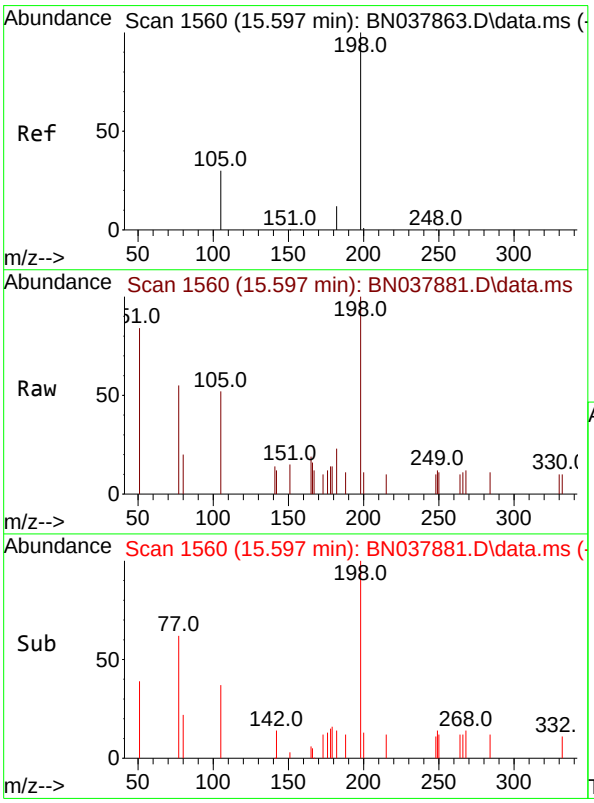
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 17039

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.4	7.6	11.4

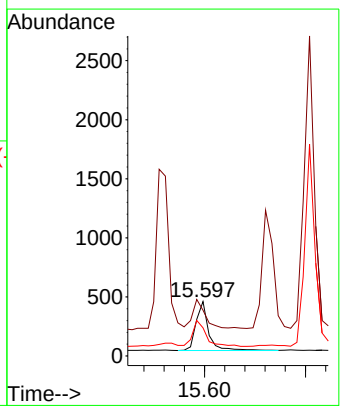


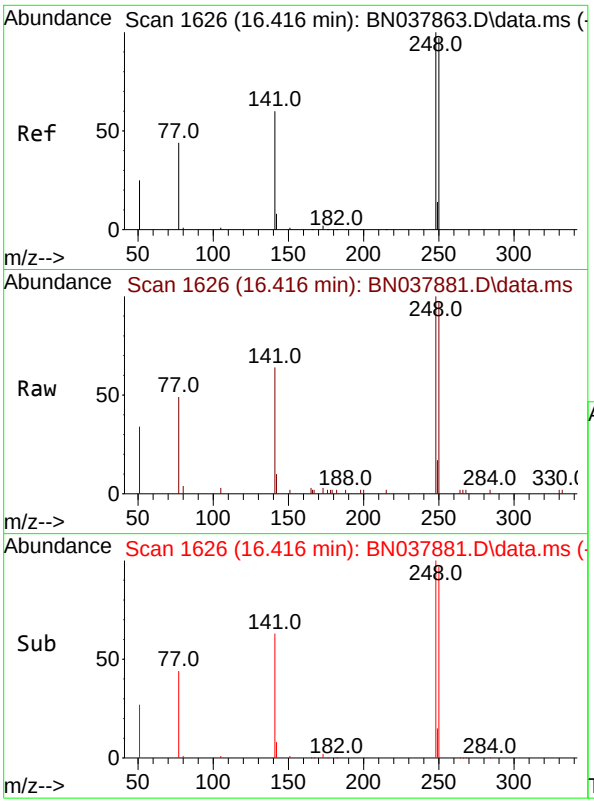


#20
4,6-Dinitro-2-methylphenol
Concen: 0.391 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:198 Resp: 709

Ion	Ratio	Lower	Upper
198	100		
51	83.9	59.1	88.7
105	51.8	41.3	61.9



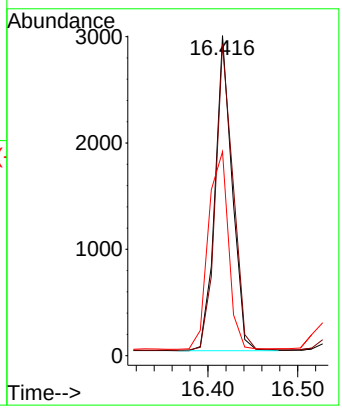


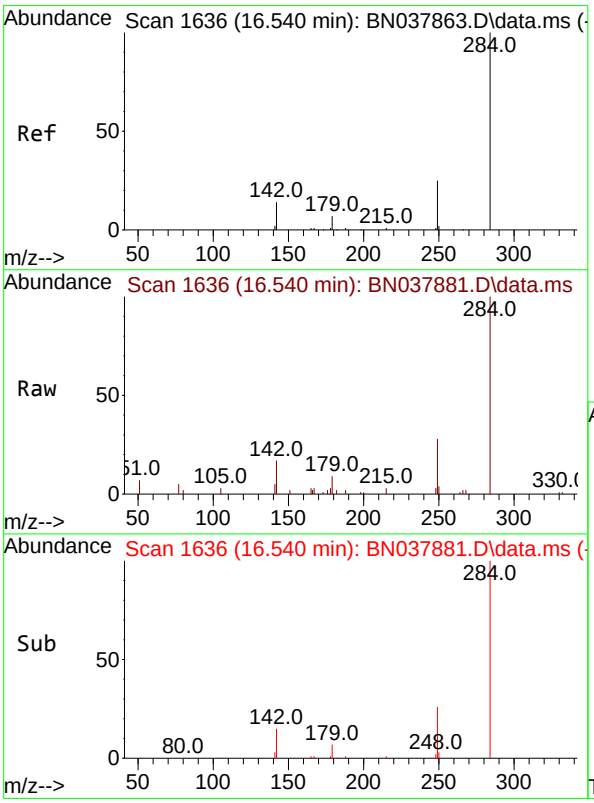
#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 16.416 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 3946

Ion	Ratio	Lower	Upper
248	100		
250	97.4	77.6	116.4
141	63.7	48.8	73.2

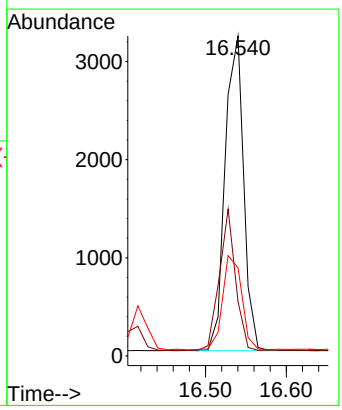


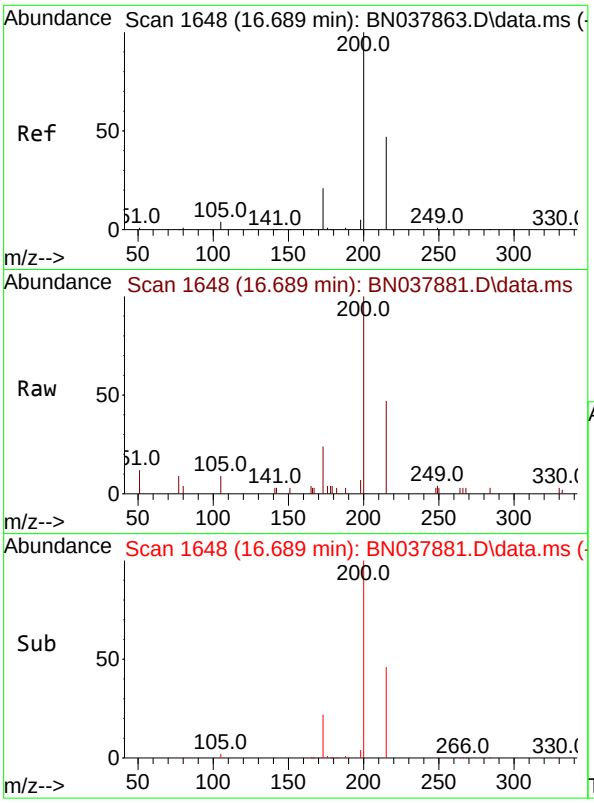


#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:284 Resp: 5118

Ion	Ratio	Lower	Upper
284	100		
142	39.2	30.9	46.3
249	30.9	23.9	35.9



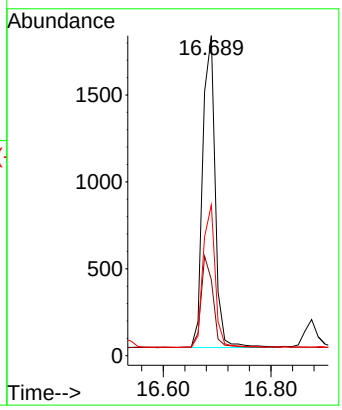


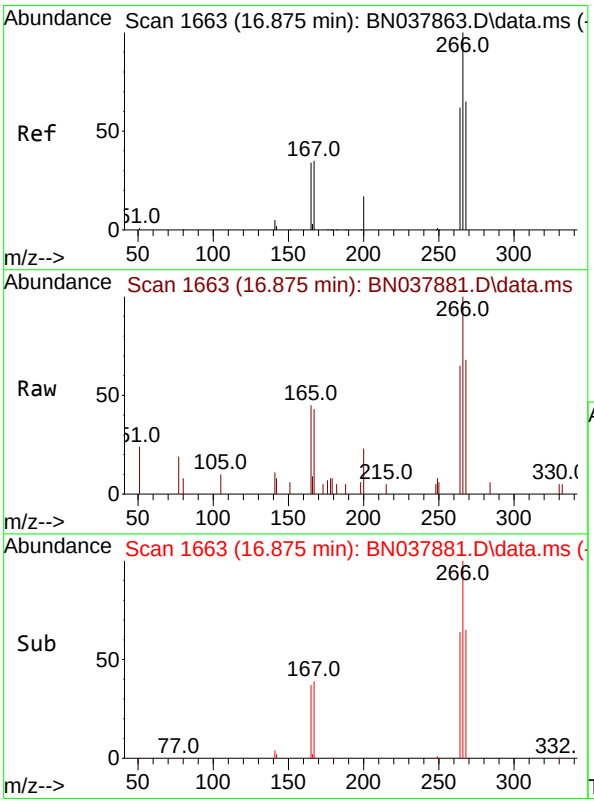
#23
Atrazine
Concen: 0.341 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 2883

Ion	Ratio	Lower	Upper
200	100		
173	23.7	18.3	27.5
215	47.1	38.6	58.0

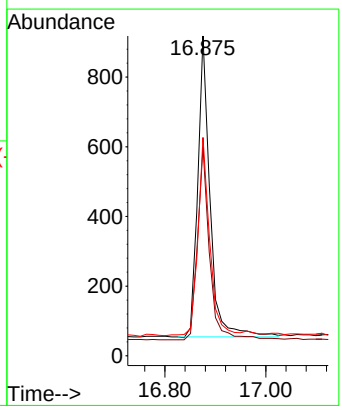


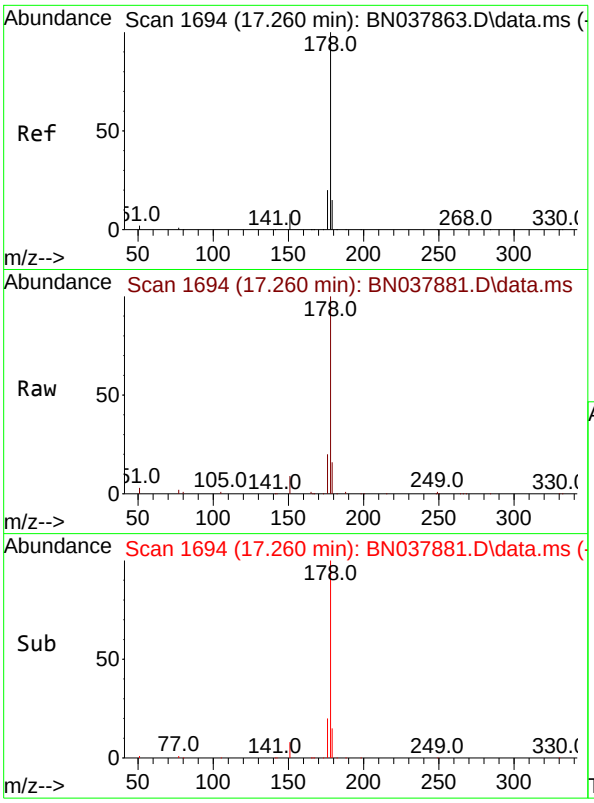


#24
Pentachlorophenol
Concen: 0.316 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:266 Resp: 1462

Ion	Ratio	Lower	Upper
266	100		
264	63.0	50.9	76.3
268	63.3	54.3	81.5



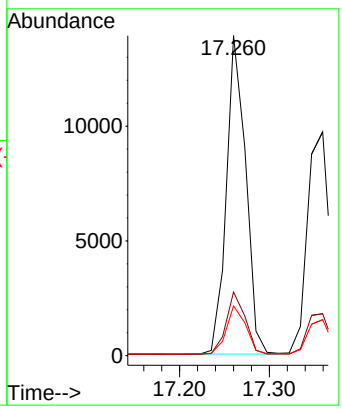


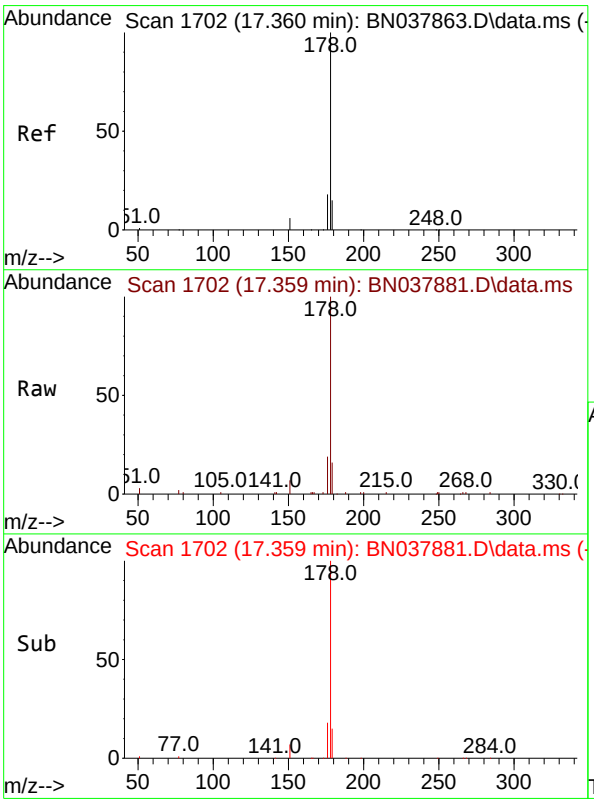
#25
Phenanthrene
Concen: 0.370 ng
RT: 17.260 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 20733

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.7	23.5
179	15.2	12.3	18.5

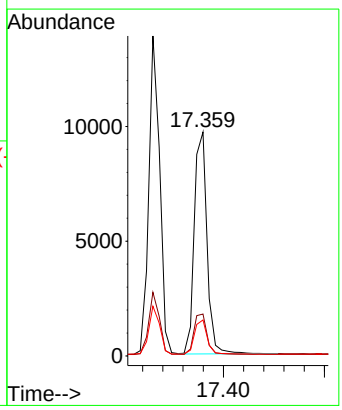


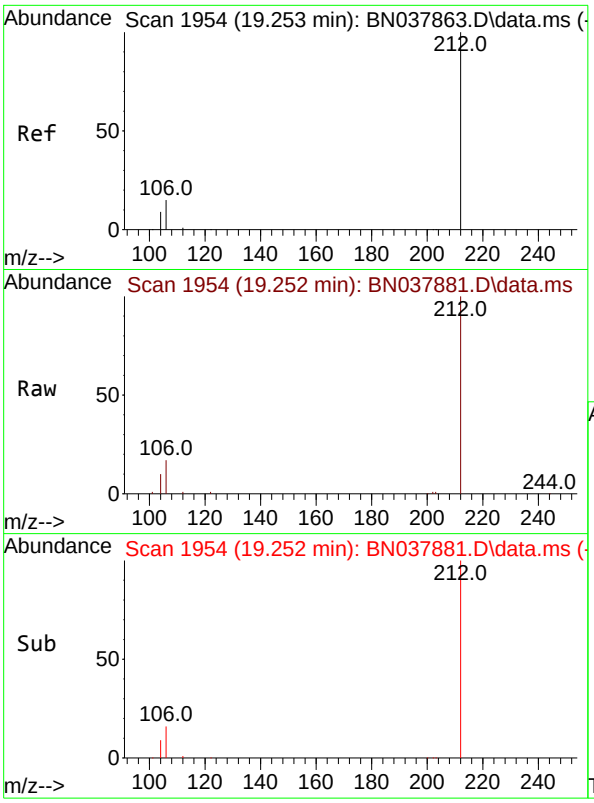


#26
Anthracene
Concen: 0.350 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:178 Resp: 17038

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.4	12.3	18.5



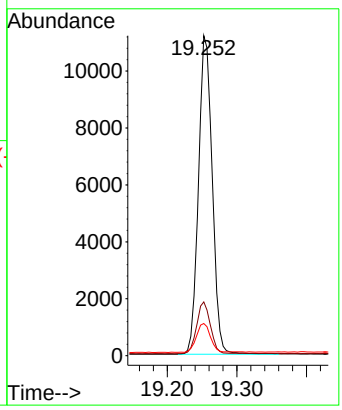


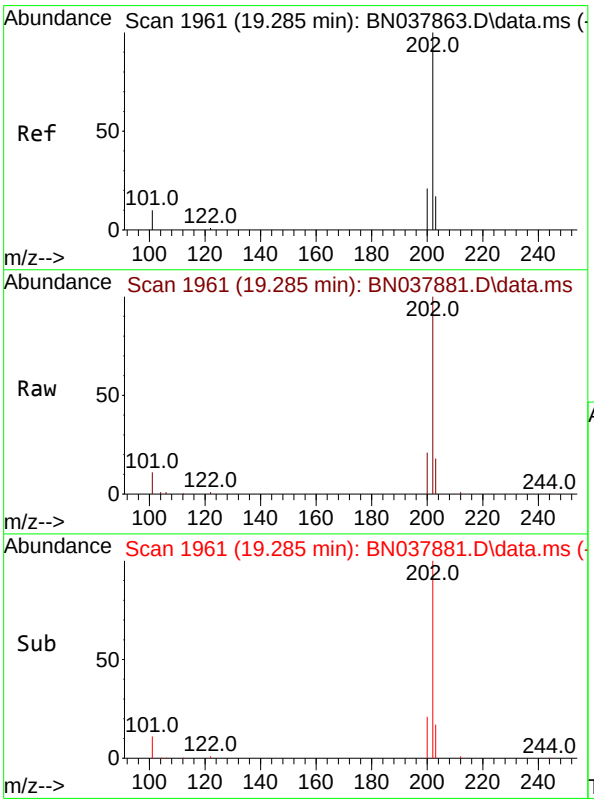
#27
Fluoranthene-d10
Concen: 0.360 ng
RT: 19.252 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 15414

Ion	Ratio	Lower	Upper
212	100		
106	16.1	12.6	19.0
104	9.4	7.4	11.0

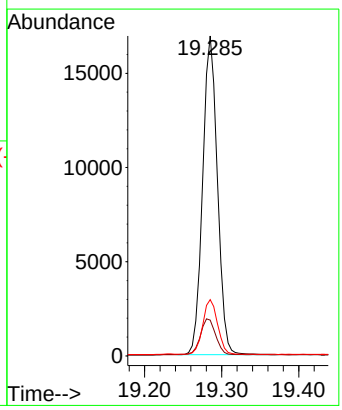


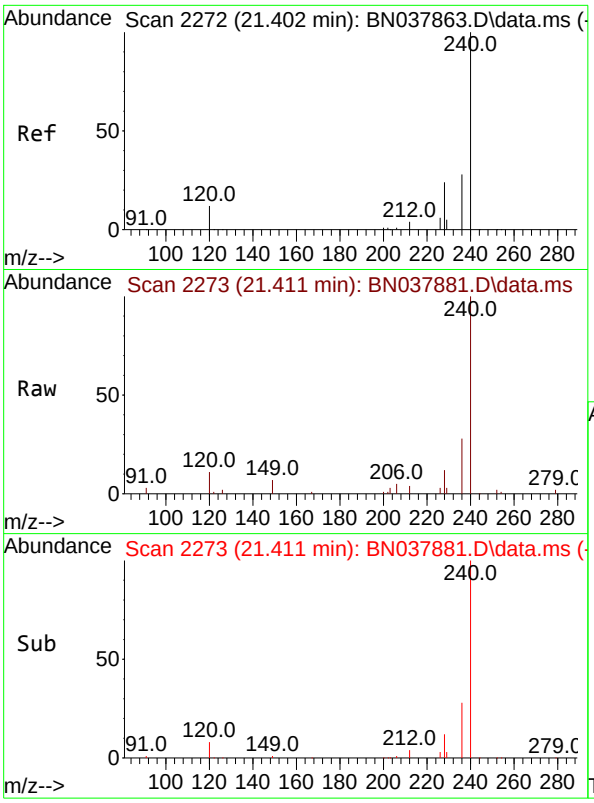


#28
Fluoranthene
Concen: 0.365 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:202 Resp: 22543

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.3	13.9
203	17.2	13.6	20.4



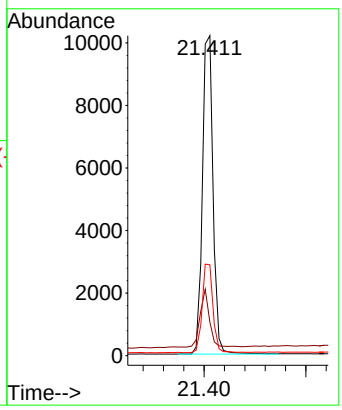


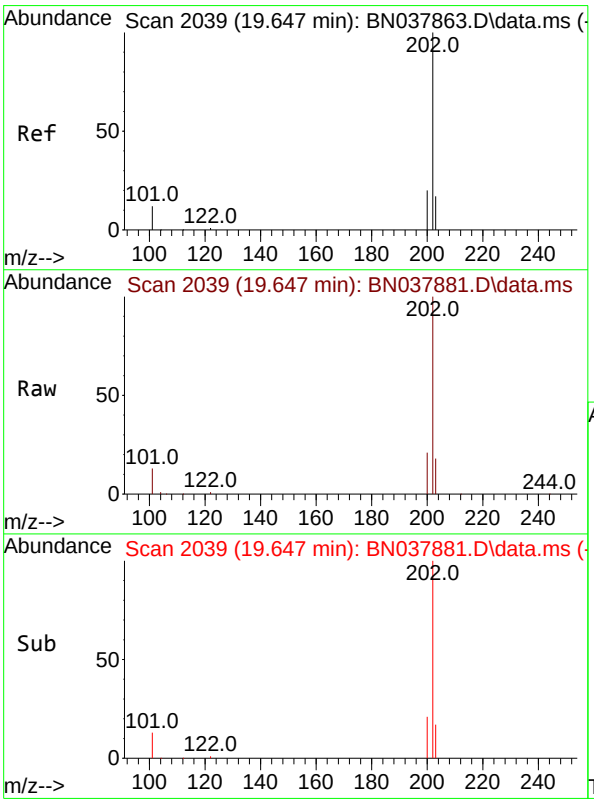
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 14774

Ion	Ratio	Lower	Upper
240	100		
120	10.5	11.4	17.2#
236	28.4	23.0	34.6

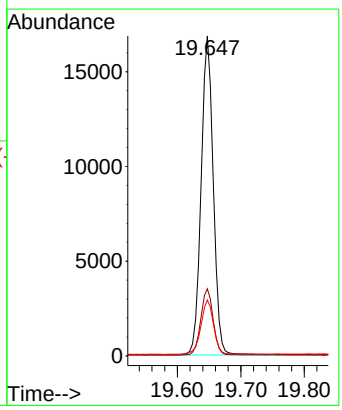


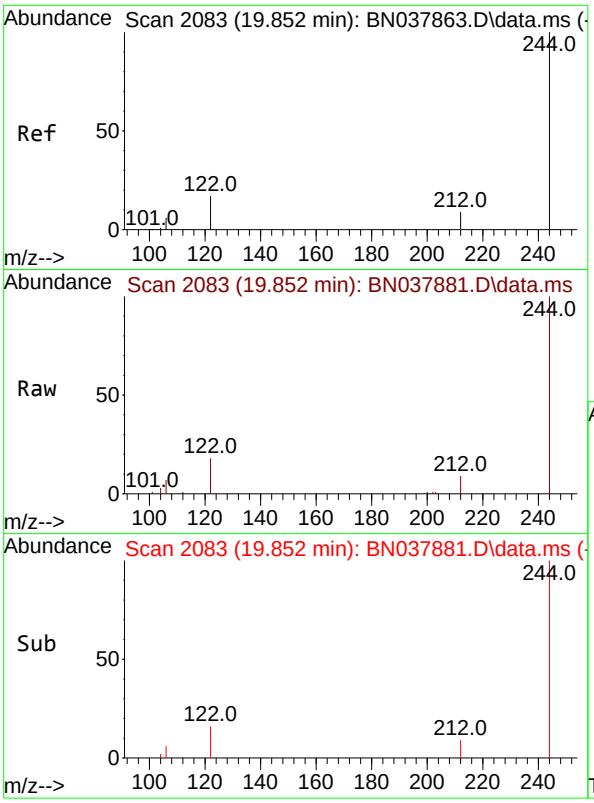


#30
Pyrene
Concen: 0.384 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:202 Resp: 22384

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.9	14.2	21.4



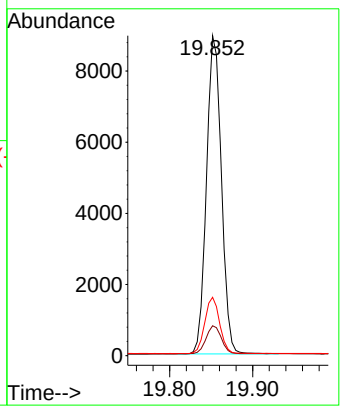


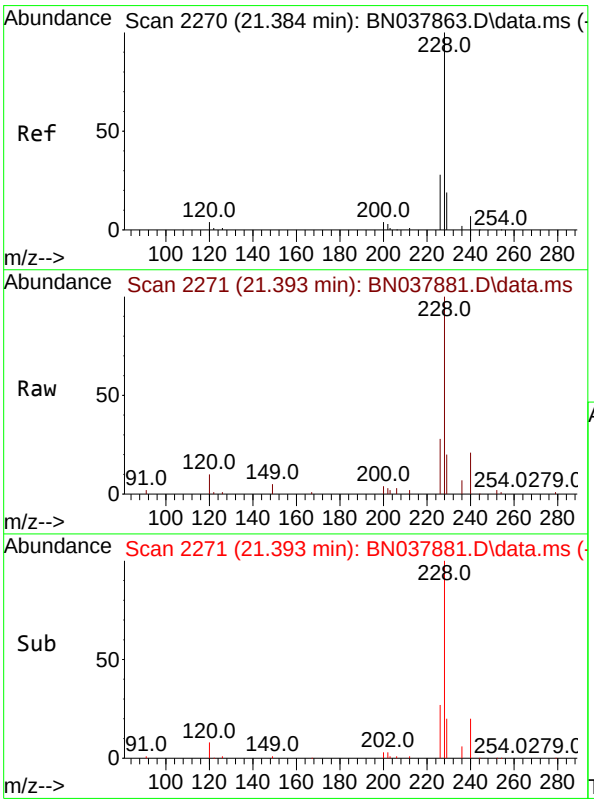
#31
Terphenyl-d14
Concen: 0.381 ng
RT: 19.852 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 11204

Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.6	11.4
122	18.2	13.9	20.9

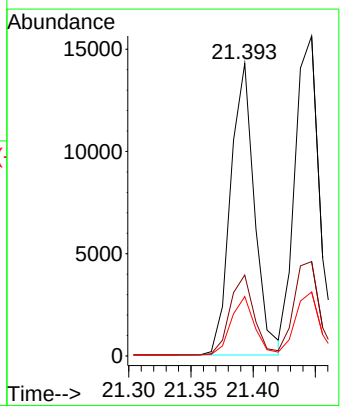


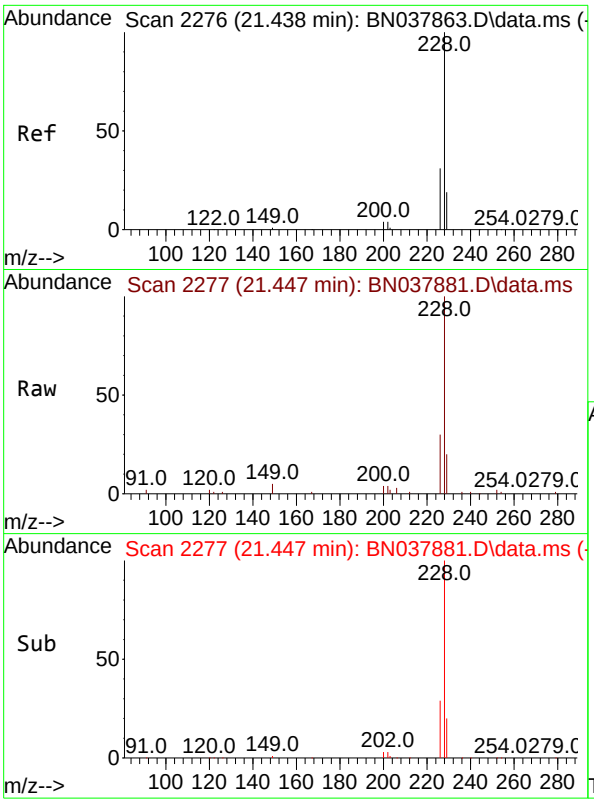


#32
Benzo(a)anthracene
Concen: 0.369 ng
RT: 21.393 min Scan# 2271
Delta R.T. 0.009 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:228 Resp: 19039

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.6	33.8
229	20.3	15.6	23.4



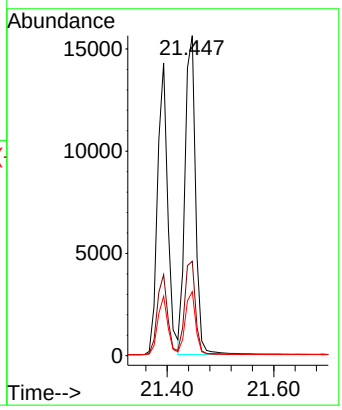


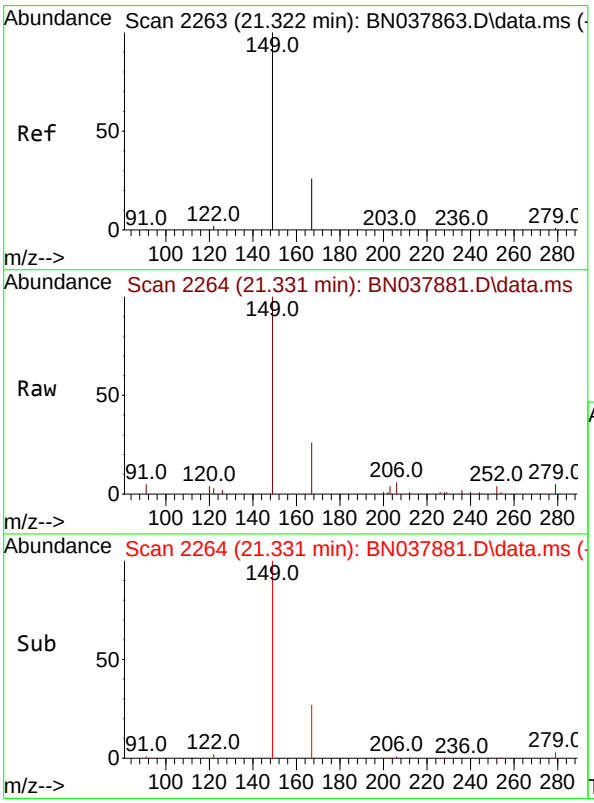
#33
Chrysene
Concen: 0.383 ng
RT: 21.447 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 21409

Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.6	37.0
229	20.0	15.6	23.4

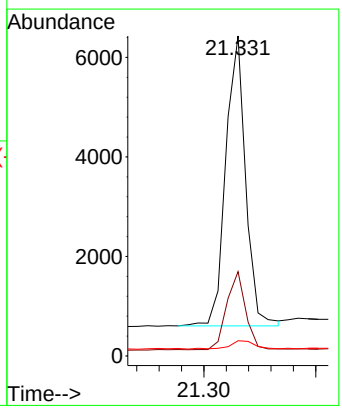


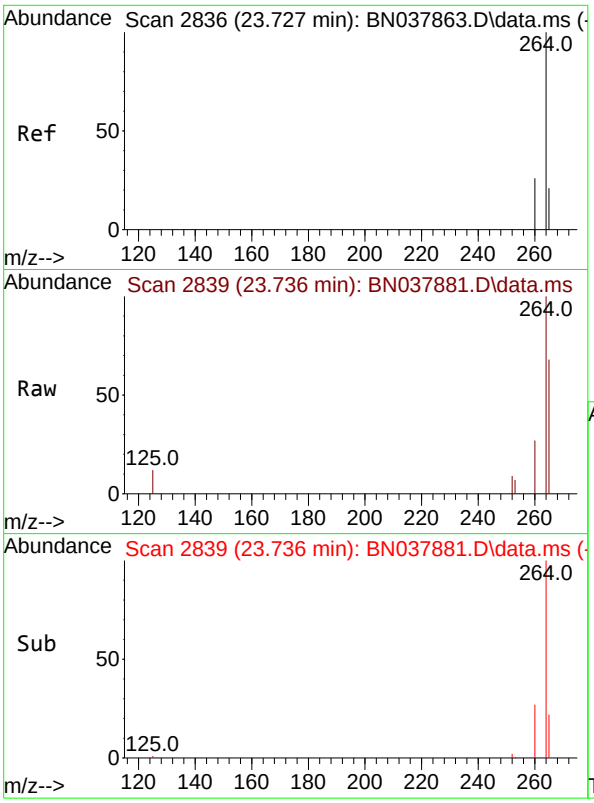


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.352 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.009 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:149 Resp: 7181

Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.4	30.6
279	3.7	2.4	3.6#



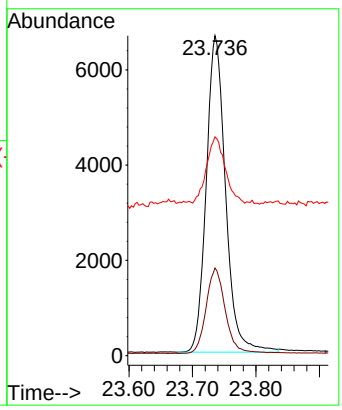


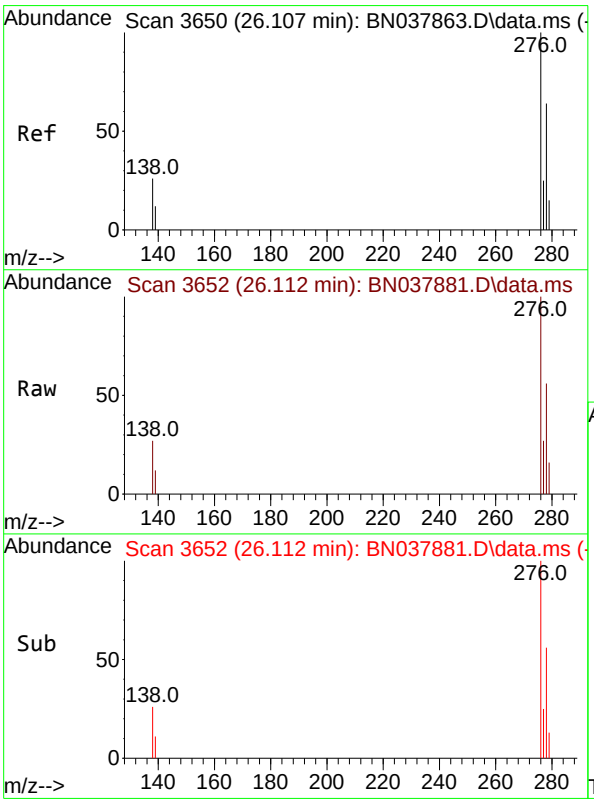
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 14018

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.5	32.3
265	68.4	53.8	80.6

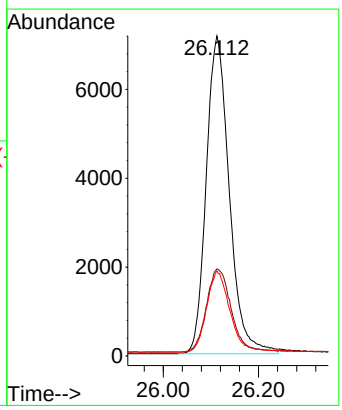


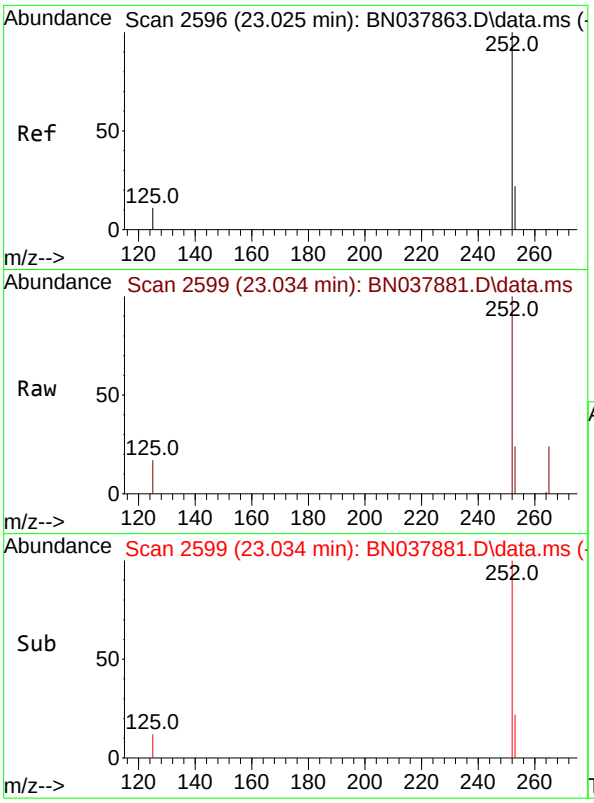


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 26.112 min Scan# 3652
Delta R.T. 0.006 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:276 Resp: 24080

Ion	Ratio	Lower	Upper
276	100		
138	28.1	21.4	32.0
277	25.6	20.3	30.5



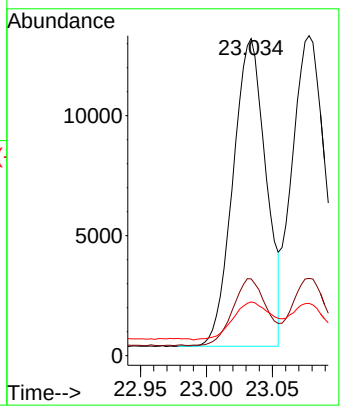


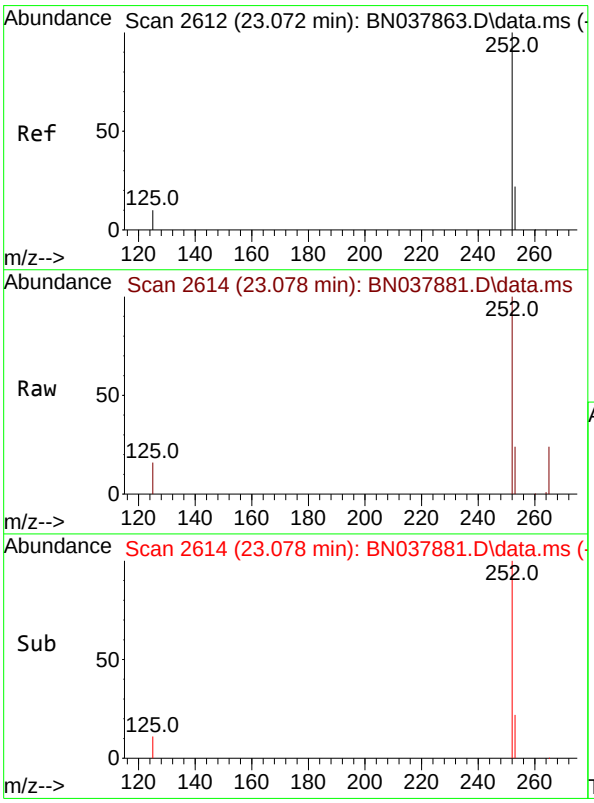
#37
Benzo(b)fluoranthene
Concen: 0.368 ng
RT: 23.034 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 22276

Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.4	29.0
125	17.0	13.0	19.4

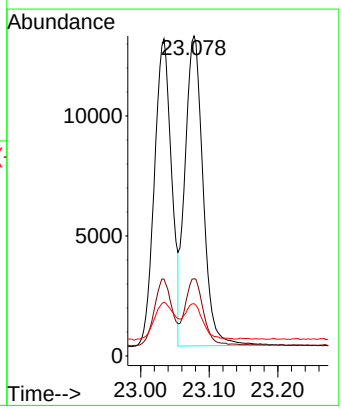


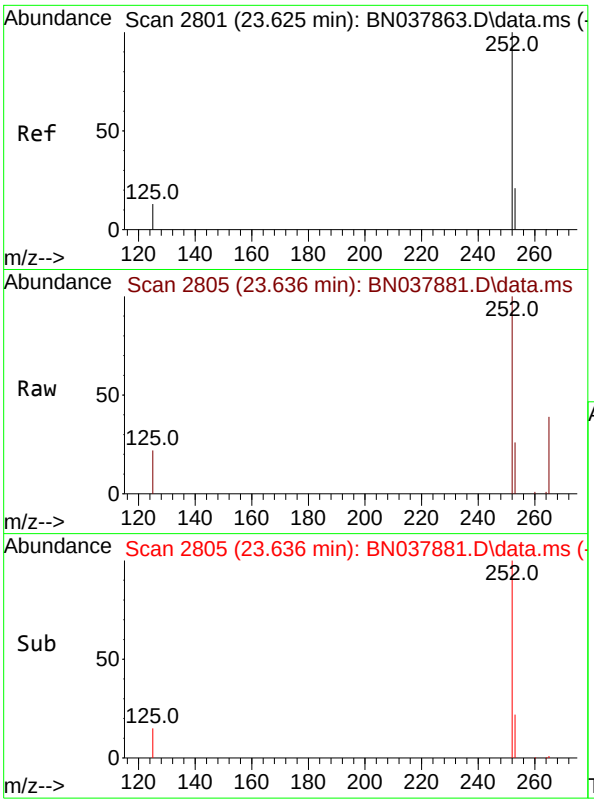


#38
Benzo(k)fluoranthene
Concen: 0.388 ng
RT: 23.078 min Scan# 2614
Delta R.T. 0.006 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:252 Resp: 23621

Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.5	29.3
125	16.4	13.0	19.4



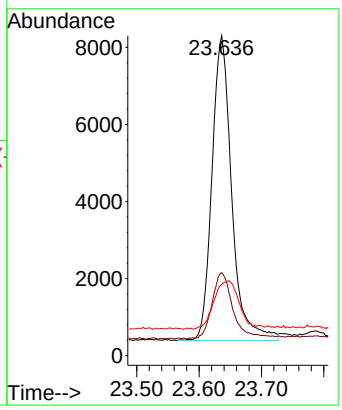


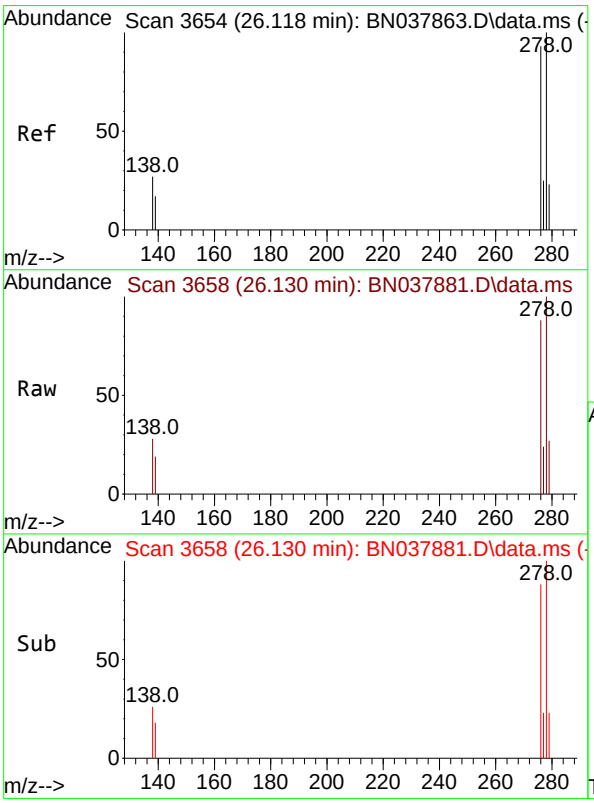
#39
Benzo(a)pyrene
Concen: 0.366 ng
RT: 23.636 min Scan# 2
Delta R.T. 0.012 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 17488

Ion	Ratio	Lower	Upper
252	100		
253	25.9	20.6	30.8
125	22.3	16.7	25.1

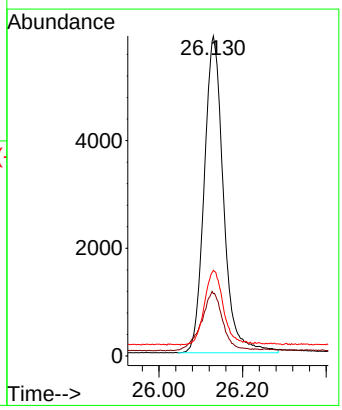


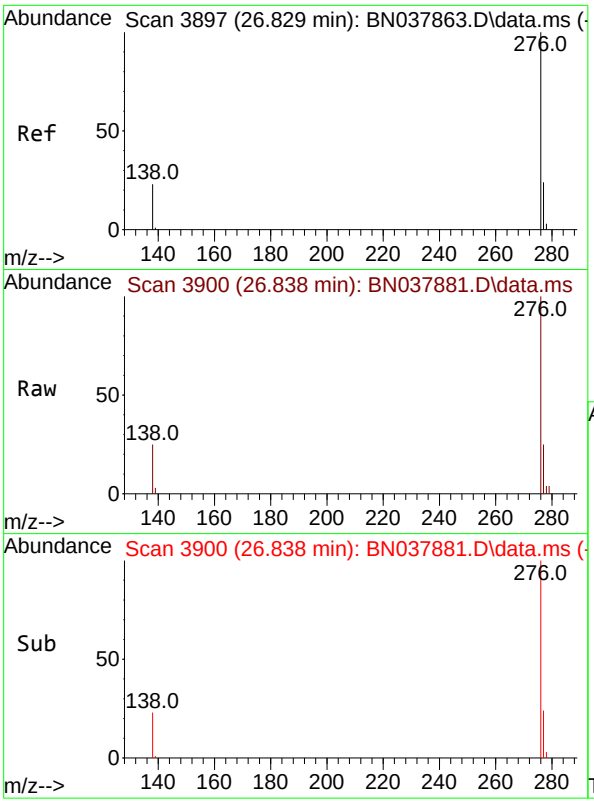


#40
Dibenzo(a,h)anthracene
Concen: 0.376 ng
RT: 26.130 min Scan# 3658
Delta R.T. 0.012 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:278 Resp: 18802

Ion	Ratio	Lower	Upper
278	100		
139	19.5	15.4	23.2
279	26.8	20.8	31.2



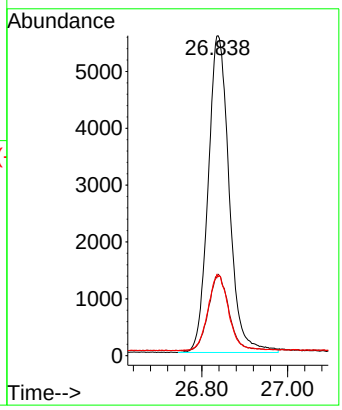


#41
Benzo(g,h,i)perylene
Concen: 0.361 ng
RT: 26.838 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 18990

Ion	Ratio	Lower	Upper
276	100		
277	25.4	20.2	30.4
138	24.6	19.8	29.8



Sample Results: **BN037881.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037881.D
Acq On : 24 Sep 2025 18:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 25 11:38:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
2		1,4-Dioxane	0.406	0.418	-3.0	103	0.00
3		n-Nitrosodimethylamine	0.540	0.509	5.7	100	0.00
4	S	2-Fluorophenol	0.913	0.873	4.4	103	0.00
5	S	Phenol-d6	1.199	1.142	4.8	104	0.00
6		bis(2-Chloroethyl)ether	1.113	1.097	1.4	103	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	105	0.00
8	S	Nitrobenzene-d5	0.305	0.291	4.6	106	0.00
9		Naphthalene	1.102	1.051	4.6	105	0.01
10		Hexachlorobutadiene	0.188	0.187	0.5	108	0.00
11	SURR	2-Methylnaphthalene-d10	0.556	0.497	10.6	105	0.00
12		2-Methylnaphthalene	0.720	0.670	6.9	105	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00
14	S	2,4,6-Tribromophenol	0.152	0.123	19.1	96	0.00
15	S	2-Fluorobiphenyl	1.638	1.569	4.2	107	0.00
16		Acenaphthylene	1.816	1.666	8.3	106	0.00
17		Acenaphthene	1.294	1.200	7.3	106	0.00
18		Fluorene	1.565	1.477	5.6	108	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00
20		4,6-Dinitro-2-methylphenol	0.057	0.042	26.3#	102	0.00
21		4-Bromophenyl-phenylether	0.261	0.232	11.1	101	0.00
22		Hexachlorobenzene	0.316	0.300	5.1	105	0.00
23		Atrazine	0.199	0.169	15.1	105	0.00
24		Pentachlorophenol	0.108	0.086	20.4	100	0.00
25		Phenanthrene	1.316	1.217	7.5	106	0.00
26		Anthracene	1.142	1.000	12.4	104	0.00
27	SURR	Fluoranthene-d10	1.006	0.905	10.0	109	0.00
28		Fluoranthene	1.450	1.323	8.8	108	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	109	0.00
30		Pyrene	1.579	1.515	4.1	108	0.00
31	S	Terphenyl-d14	0.797	0.758	4.9	110	0.00
32		Benzo(a)anthracene	1.398	1.289	7.8	108	0.00
33		Chrysene	1.512	1.449	4.2	108	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.486	12.1	109	0.00
35	I	Perylene-d12	1.000	1.000	0.0	111	0.00
36		Indeno(1,2,3-cd)pyrene	1.828	1.718	6.0	115	0.00
37		Benzo(b)fluoranthene	1.725	1.589	7.9	108	0.00
38		Benzo(k)fluoranthene	1.736	1.685	2.9	118	0.00
39	C	Benzo(a)pyrene	1.364	1.248	8.5	113	0.01
40		Dibenzo(a,h)anthracene	1.427	1.341	6.0	115	0.01
41		Benzo(g,h,i)perylene	1.499	1.355	9.6	108	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Evaluate Continuing Calibration Report

Sample Results: **BN037881.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037881.D
Acq On : 24 Sep 2025 18:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 25 11:38:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	101	0.00
2		1,4-Dioxane	0.400	0.412	-3.0	103	0.00
3		n-Nitrosodimethylamine	0.400	0.377	5.8	100	0.00
4	S	2-Fluorophenol	0.400	0.383	4.3	103	0.00
5	S	Phenol-d6	0.400	0.381	4.8	104	0.00
6		bis(2-Chloroethyl)ether	0.400	0.394	1.5	103	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	105	0.00
8	S	Nitrobenzene-d5	0.400	0.381	4.8	106	0.00
9		Naphthalene	0.400	0.381	4.8	105	0.01
10		Hexachlorobutadiene	0.400	0.398	0.5	108	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.358	10.5	105	0.00
12		2-Methylnaphthalene	0.400	0.372	7.0	105	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	106	0.00
14	S	2,4,6-Tribromophenol	0.400	0.323	19.3	96	0.00
15	S	2-Fluorobiphenyl	0.400	0.383	4.3	107	0.00
16		Acenaphthylene	0.400	0.367	8.3	106	0.00
17		Acenaphthene	0.400	0.371	7.3	106	0.00
18		Fluorene	0.400	0.377	5.8	108	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	107	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.391	2.3	102	0.00
21		4-Bromophenyl-phenylether	0.400	0.355	11.3	101	0.00
22		Hexachlorobenzene	0.400	0.380	5.0	105	0.00
23		Atrazine	0.400	0.341	14.8	105	0.00
24		Pentachlorophenol	0.400	0.316	21.0	100	0.00
25		Phenanthrene	0.400	0.370	7.5	106	0.00
26		Anthracene	0.400	0.350	12.5	104	0.00
27	SURR	Fluoranthene-d10	0.400	0.360	10.0	109	0.00
28		Fluoranthene	0.400	0.365	8.8	108	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	109	0.00
30		Pyrene	0.400	0.384	4.0	108	0.00
31	S	Terphenyl-d14	0.400	0.381	4.8	110	0.00
32		Benzo(a)anthracene	0.400	0.369	7.8	108	0.00
33		Chrysene	0.400	0.383	4.3	108	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.352	12.0	109	0.00
35	I	Perylene-d12	0.400	0.400	0.0	111	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.376	6.0	115	0.00
37		Benzo(b)fluoranthene	0.400	0.368	8.0	108	0.00
38		Benzo(k)fluoranthene	0.400	0.388	3.0	118	0.00
39	C	Benzo(a)pyrene	0.400	0.366	8.5	113	0.01
40		Dibenzo(a,h)anthracene	0.400	0.376	6.0	115	0.01
41		Benzo(g,h,i)perylene	0.400	0.361	9.8	108	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15		
Lab Code:	ACE	SDG No.:	Q3097		
Instrument ID:	BNA_N	Calibration Date/Time:	09/25/2025	11:31	
Lab File ID:	BN037883.D	Init. Calib. Date(s):	09/23/2025	09/23/2025	
EPA Sample No.:	SSTDCCC0.4	Init. Calib. Time(s):	12:13	15:51	

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.515		-7.4	20.0
Fluoranthene-d10	1.006	0.915		-9.0	20.0
2-Fluorophenol	0.913	0.967		5.9	20.0
Phenol-d6	1.199	1.243		3.7	20.0
Nitrobenzene-d5	0.305	0.321		5.2	20.0
2-Fluorobiphenyl	1.638	1.650		0.7	20.0
2,4,6-Tribromophenol	0.152	0.143		-5.9	20.0
Terphenyl-d14	0.797	0.754		-5.4	20.0
1,4-Dioxane	0.406	0.421		3.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037883.D
Acq On : 25 Sep 2025 11:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 25 13:29:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

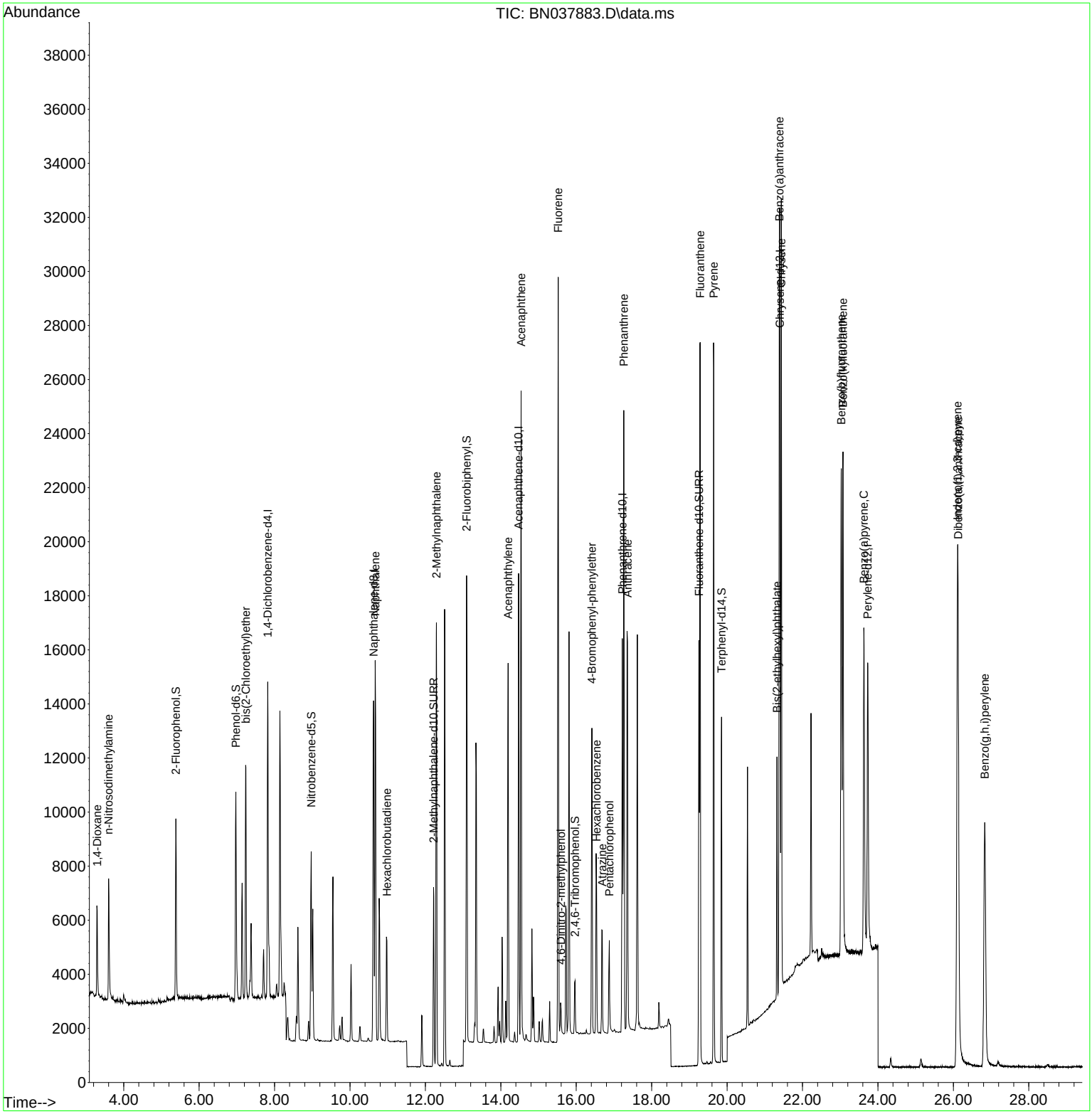
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.818	152	5686	0.400	ng		0.00
7) Naphthalene-d8	10.626	136	16943	0.400	ng		0.00
13) Acenaphthene-d10	14.473	164	8938	0.400	ng		0.00
19) Phenanthrene-d10	17.223	188	18224	0.400	ng		0.00
29) Chrysene-d12	21.402	240	15951	0.400	ng		0.00
35) Perylene-d12	23.730	264	15181	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.385	112	5496	0.424	ng		0.00
5) Phenol-d6	6.973	99	7070	0.415	ng		0.00
8) Nitrobenzene-d5	8.971	82	5435	0.421	ng		0.00
11) 2-Methylnaphthalene-d10	12.217	152	8729	0.371	ng		0.00
14) 2,4,6-Tribromophenol	15.969	330	1282	0.378	ng		0.00
15) 2-Fluorobiphenyl	13.094	172	14748	0.403	ng		0.00
27) Fluoranthene-d10	19.253	212	16679	0.364	ng		0.00
31) Terphenyl-d14	19.852	244	12027	0.379	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	2396	0.415	ng		98
3) n-Nitrosodimethylamine	3.601	42	2953	0.385	ng	#	91
6) bis(2-Chloroethyl)ether	7.241	93	6313	0.399	ng		98
9) Naphthalene	10.669	128	18632	0.399	ng		100
10) Hexachlorobutadiene	10.979	225	3268	0.410	ng	#	99
12) 2-Methylnaphthalene	12.294	142	11807	0.387	ng		99
16) Acenaphthylene	14.195	152	15429	0.380	ng		100
17) Acenaphthene	14.537	154	11105	0.384	ng		100
18) Fluorene	15.523	166	13630	0.390	ng		100
20) 4,6-Dinitro-2-methylph...	15.597	198	819	0.416	ng		97
21) 4-Bromophenyl-phenylether	16.416	248	4303	0.362	ng		99
22) Hexachlorobenzene	16.540	284	5574	0.387	ng		100
23) Atrazine	16.689	200	3567	0.394	ng		99
24) Pentachlorophenol	16.876	266	1732	0.351	ng		96
25) Phenanthrene	17.260	178	22519	0.375	ng		99
26) Anthracene	17.360	178	18701	0.359	ng		100
28) Fluoranthene	19.285	202	24178	0.366	ng		99
30) Pyrene	19.643	202	23902	0.380	ng		100
32) Benzo(a)anthracene	21.384	228	20770	0.373	ng		99
33) Chrysene	21.438	228	23424	0.389	ng		99
34) Bis(2-ethylhexyl)phtha...	21.322	149	7768	0.352	ng	#	98
36) Indeno(1,2,3-cd)pyrene	26.110	276	26167	0.377	ng		99
37) Benzo(b)fluoranthene	23.028	252	24299	0.371	ng		99
38) Benzo(k)fluoranthene	23.072	252	25034	0.380	ng		100
39) Benzo(a)pyrene	23.628	252	19225	0.371	ng		100
40) Dibenzo(a,h)anthracene	26.124	278	20318	0.375	ng		100
41) Benzo(g,h,i)perylene	26.835	276	20812	0.366	ng		99

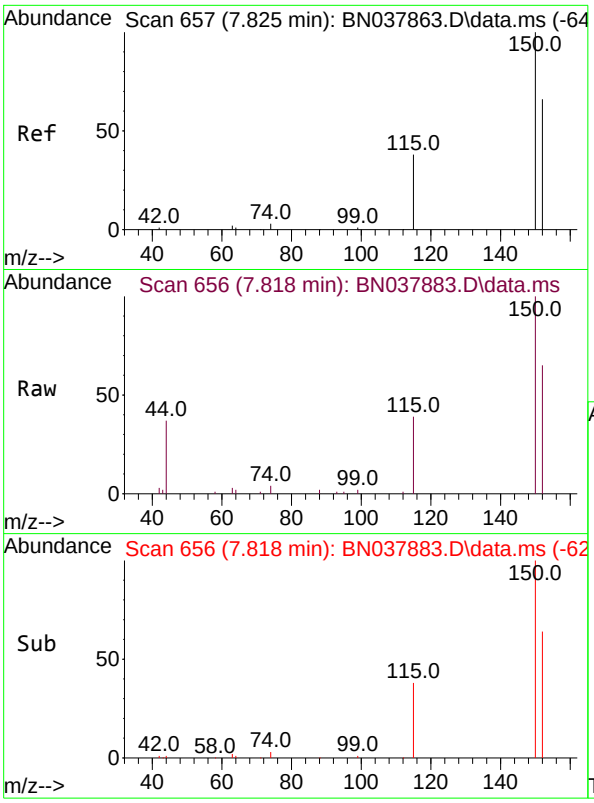
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037883.D
Acq On : 25 Sep 2025 11:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 25 13:29:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



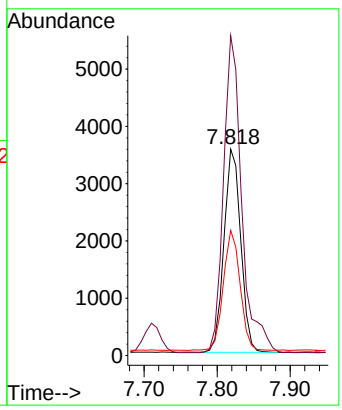


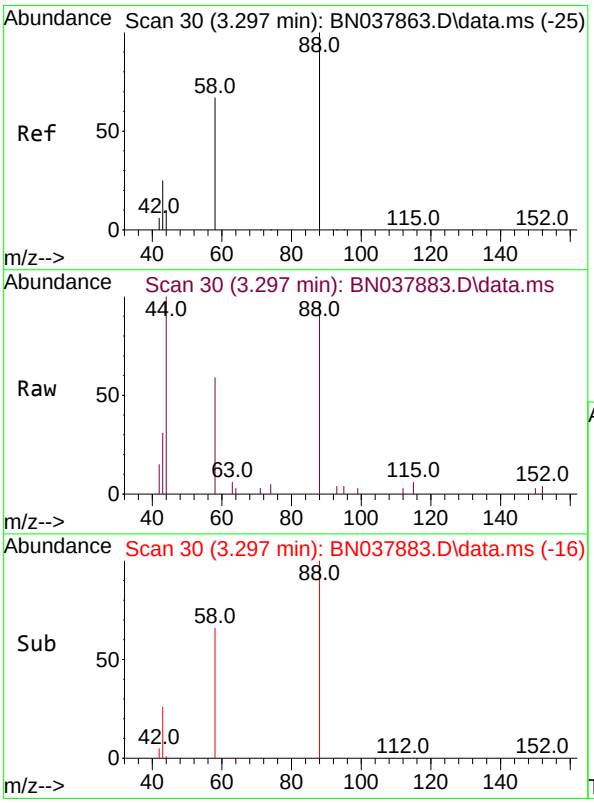
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 5686

Ion	Ratio	Lower	Upper
152	100		
150	154.9	121.0	181.4
115	60.6	47.4	71.0

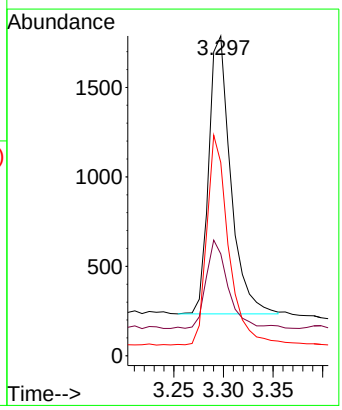


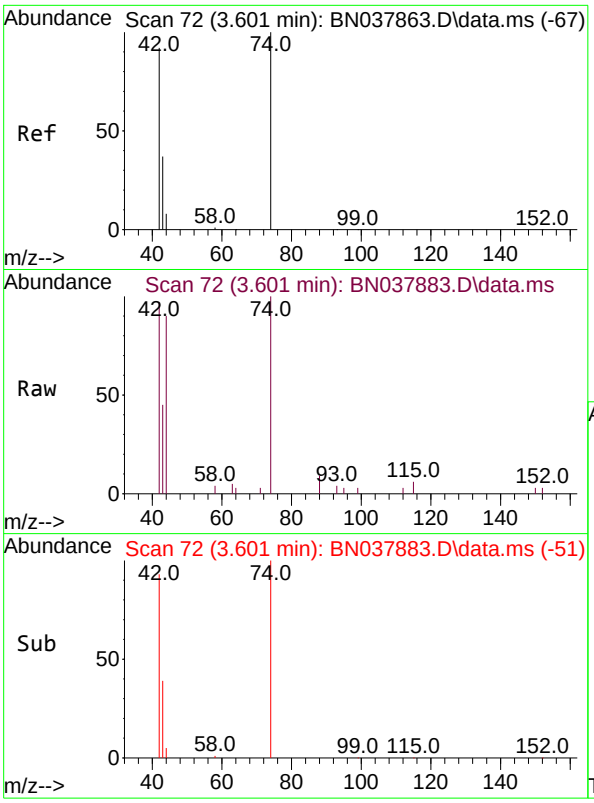


#2
1,4-Dioxane
Concen: 0.415 ng
RT: 3.297 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion: 88 Resp: 2396

Ion	Ratio	Lower	Upper
88	100		
43	32.2	26.6	39.8
58	74.8	58.9	88.3



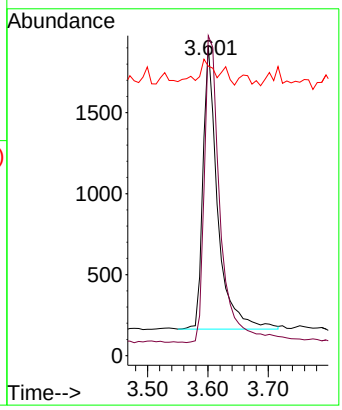


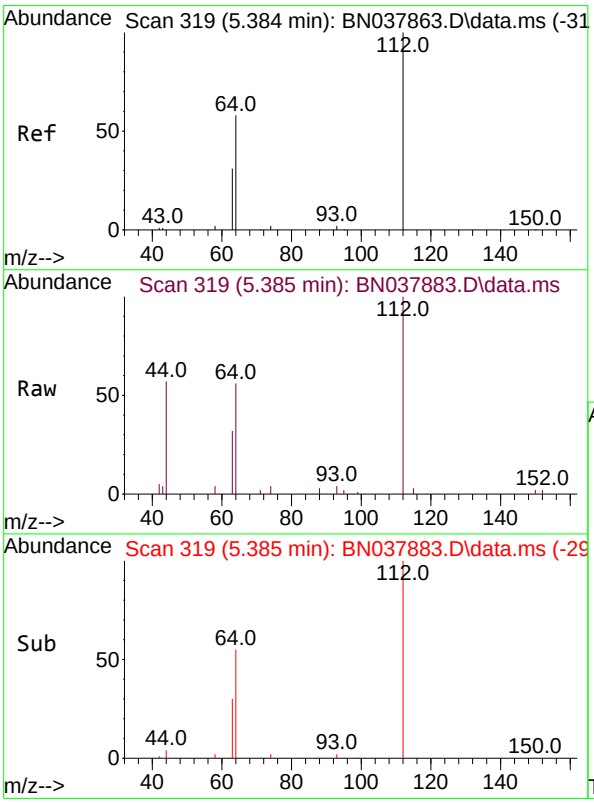
#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.601 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2953

Ion	Ratio	Lower	Upper
42	100		
74	117.9	93.4	140.0
44	7.0	22.2	33.4#

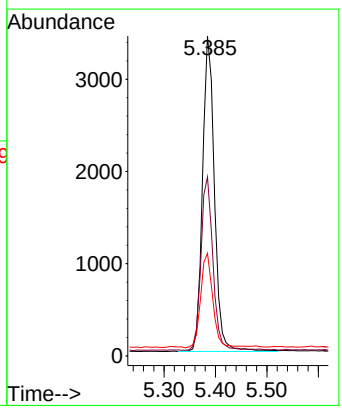


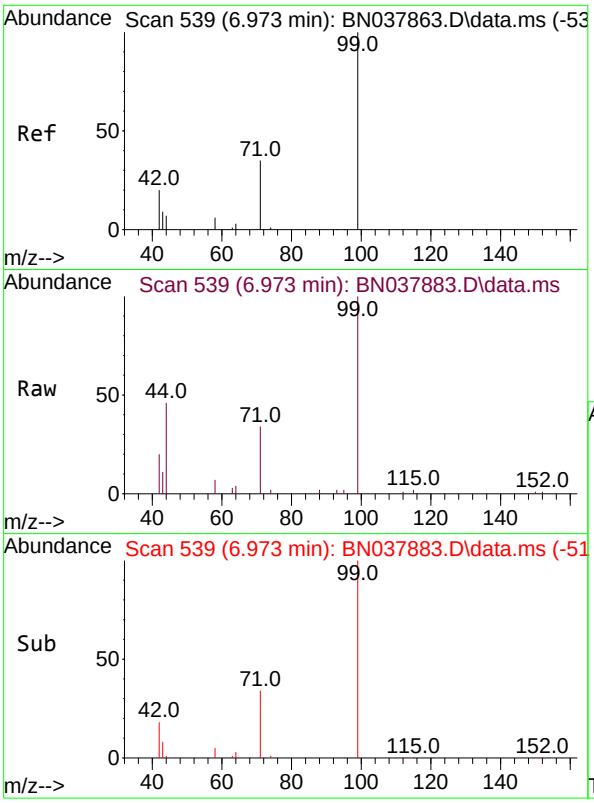


#4
2-Fluorophenol
Concen: 0.424 ng
RT: 5.385 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:112 Resp: 5496

Ion	Ratio	Lower	Upper
112	100		
64	55.5	44.6	66.8
63	31.0	24.9	37.3



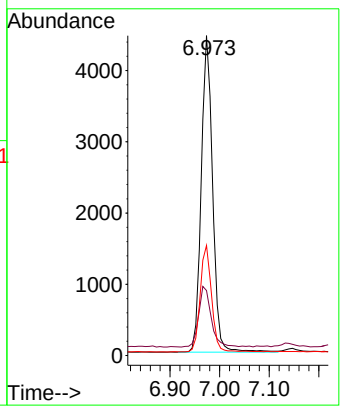


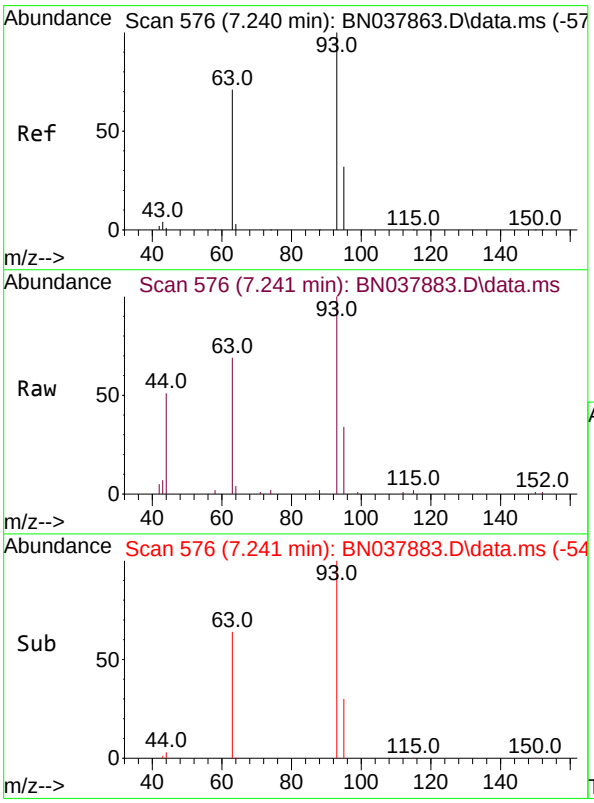
#5
Phenol-d6
Concen: 0.415 ng
RT: 6.973 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 7070

Ion	Ratio	Lower	Upper
99	100		
42	20.9	17.2	25.8
71	33.4	27.3	40.9

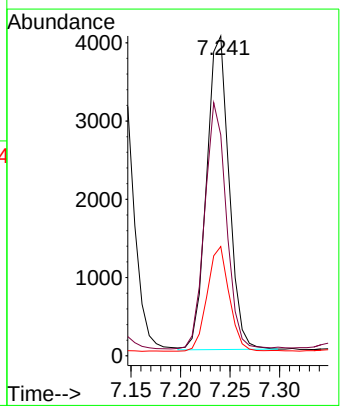


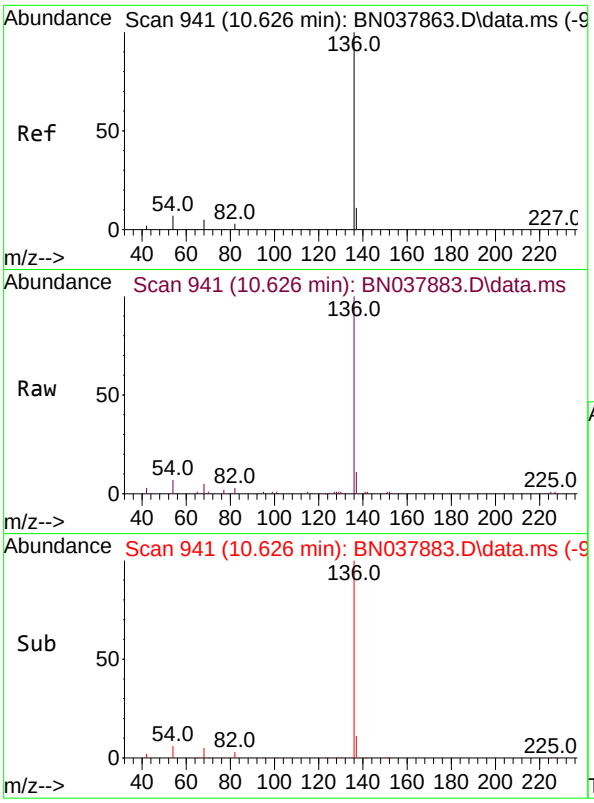


#6
bis(2-Chloroethyl)ether
Concen: 0.399 ng
RT: 7.241 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion: 93 Resp: 6313

Ion	Ratio	Lower	Upper
93	100		
63	76.4	60.1	90.1
95	32.8	25.4	38.2



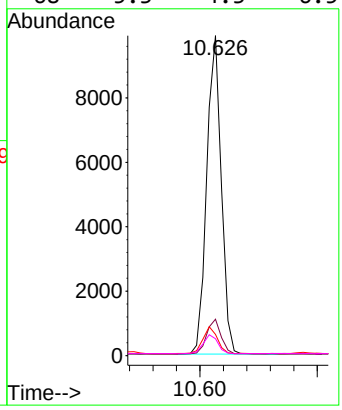


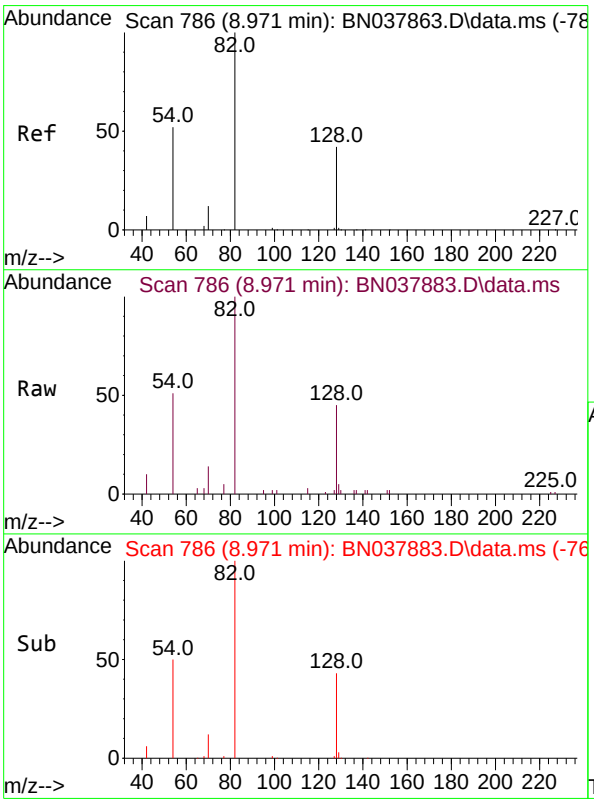
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 16943

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	6.6	5.8	8.8
68	5.3	4.3	6.5

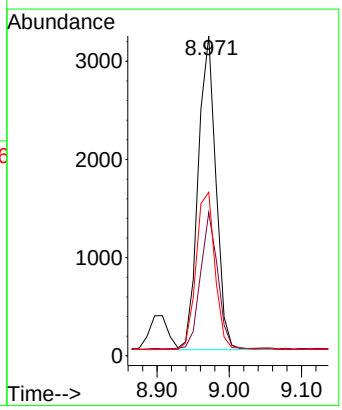


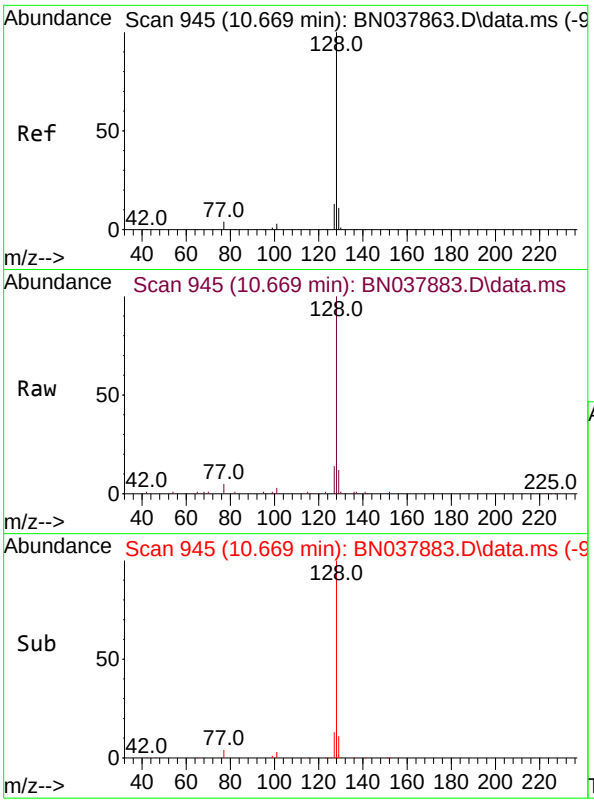


#8
Nitrobenzene-d5
Concen: 0.421 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion: 82 Resp: 5435

Ion	Ratio	Lower	Upper
82	100		
128	44.8	34.8	52.2
54	51.1	42.2	63.2



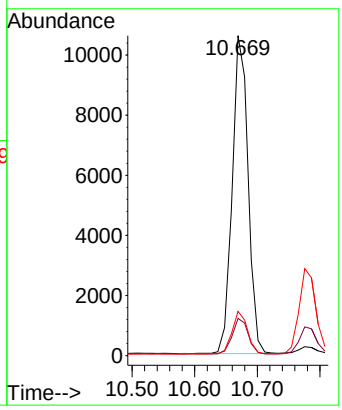


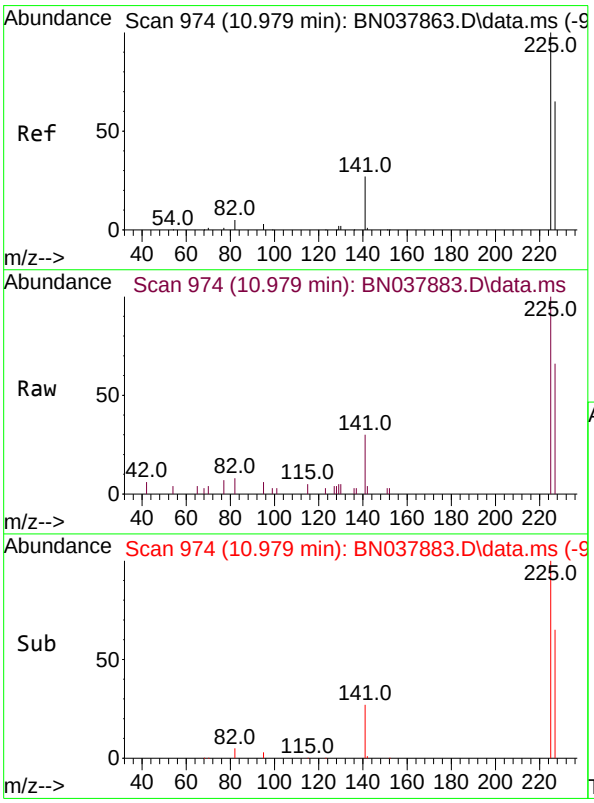
#9
Naphthalene
Concen: 0.399 ng
RT: 10.669 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 18632

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.2	13.8
127	13.8	11.0	16.6

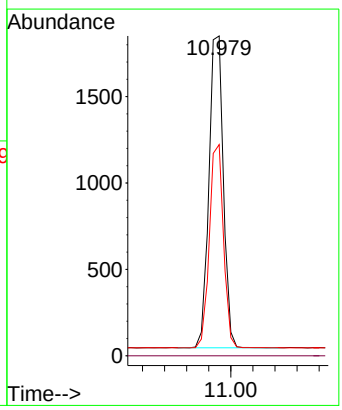


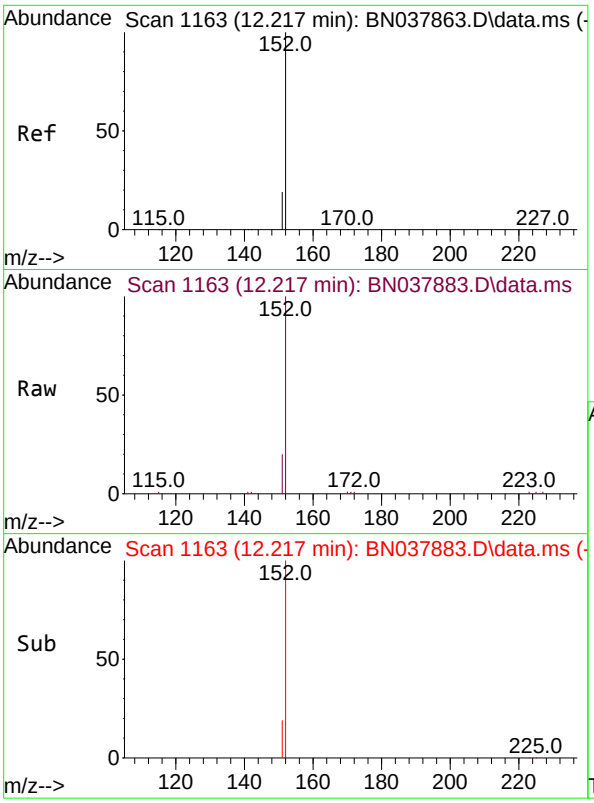


#10
Hexachlorobutadiene
Concen: 0.410 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:225 Resp: 3268

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.4	77.2



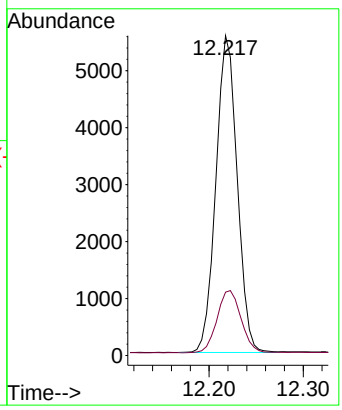


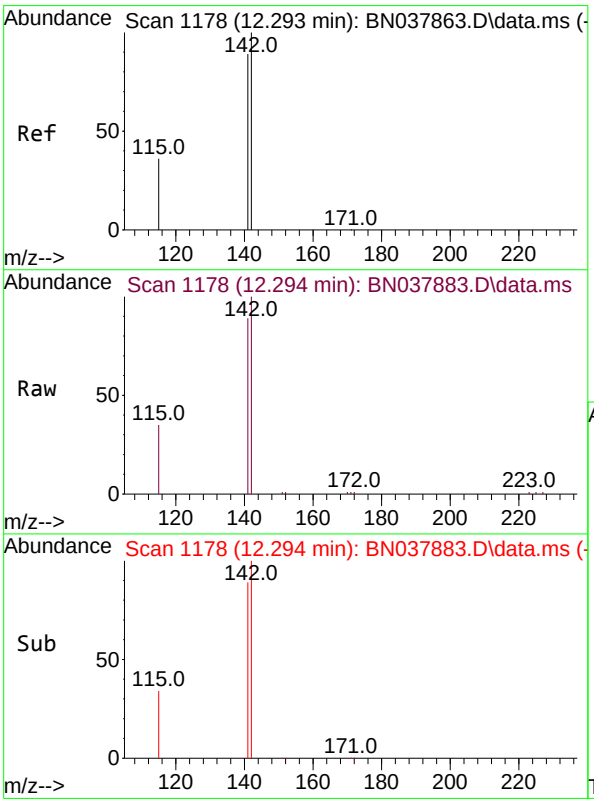
#11
2-Methylnaphthalene-d10
Concen: 0.371 ng
RT: 12.217 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 8729

Ion	Ratio	Lower	Upper
152	100		
151	22.2	17.4	26.2

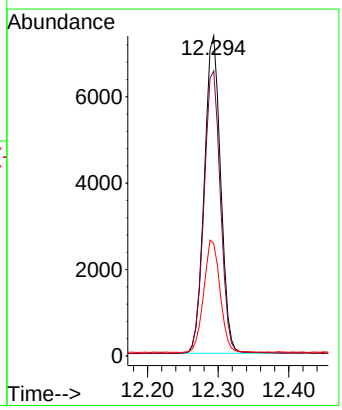


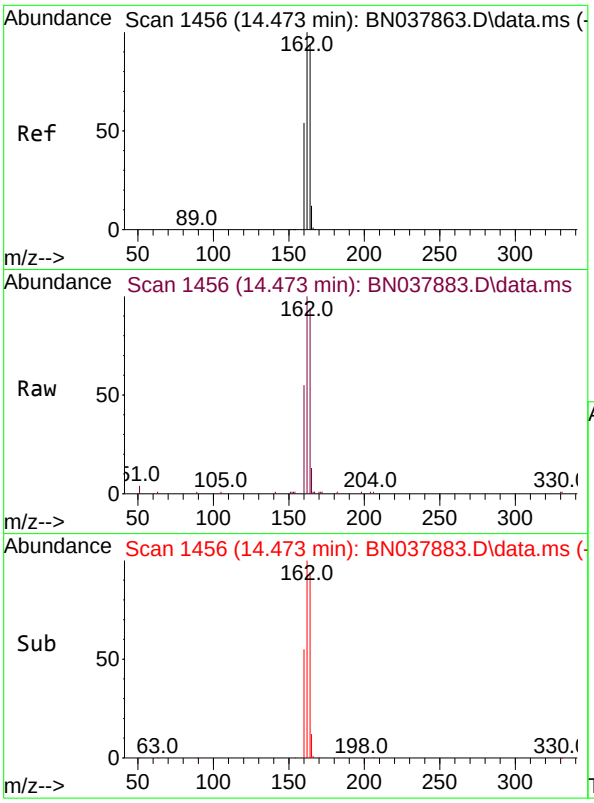


#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 12.294 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:142 Resp: 11807

Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.2	106.8
115	35.1	29.7	44.5



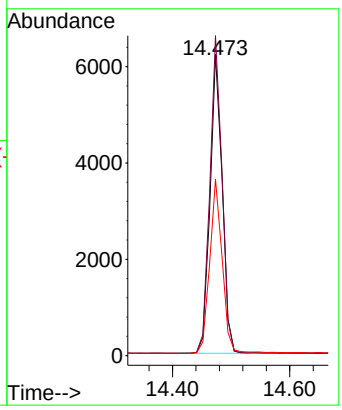


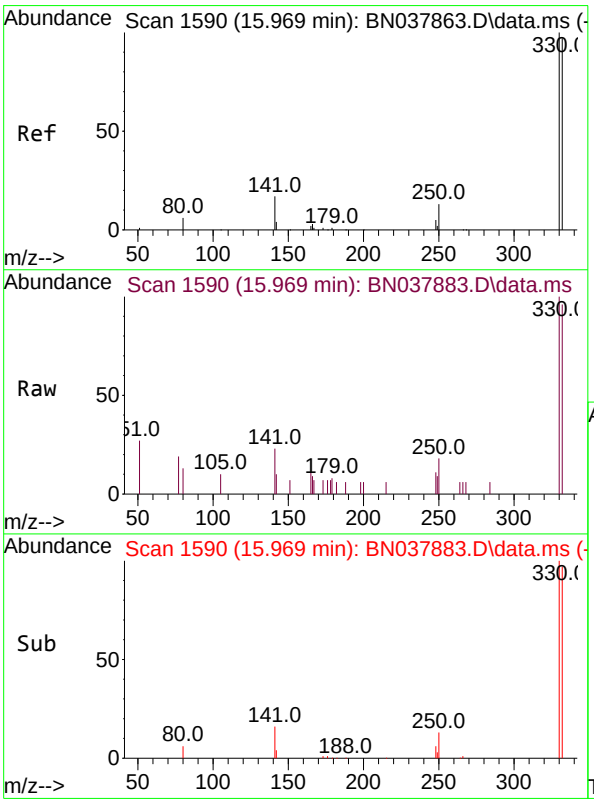
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 8938

Ion	Ratio	Lower	Upper
164	100		
162	106.1	84.8	127.2
160	58.5	46.1	69.1

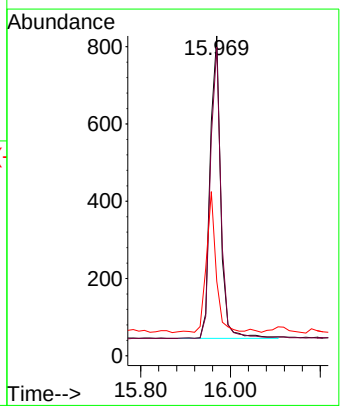


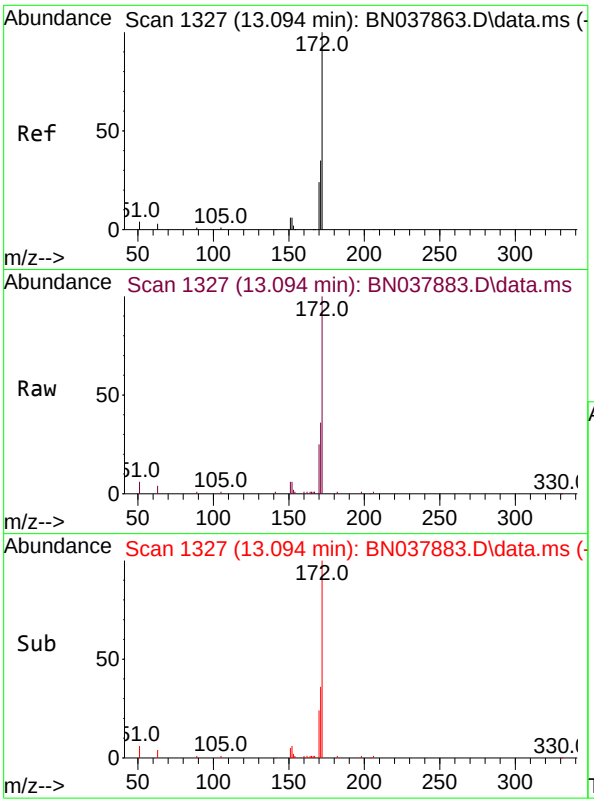


#14
2,4,6-Tribromophenol
Concen: 0.378 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:330 Resp: 1282

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.2	115.8
141	43.2	37.2	55.8



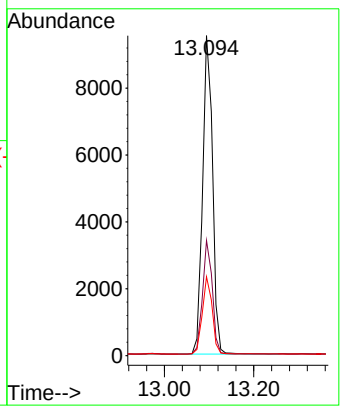


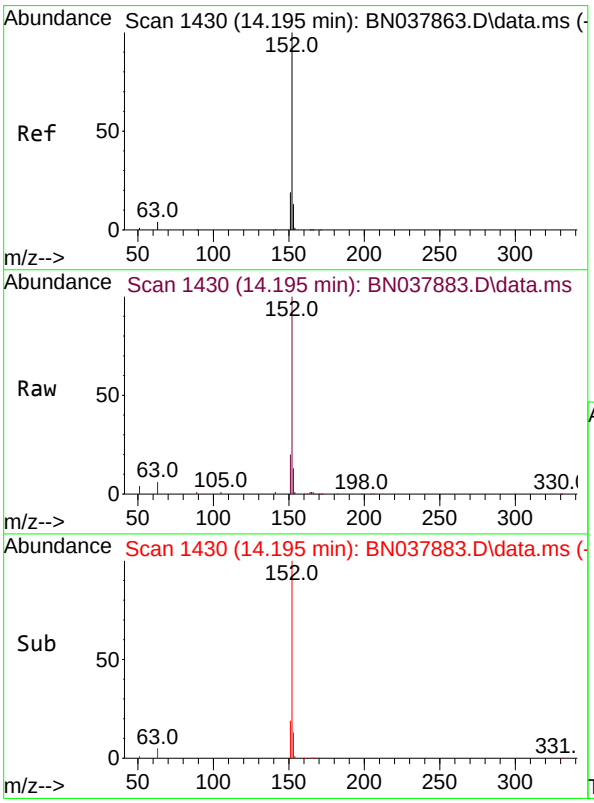
#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 13.094 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 14748

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	24.6	19.7	29.5

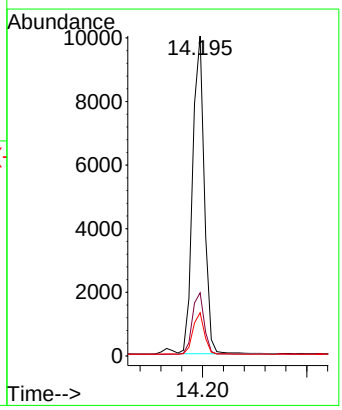


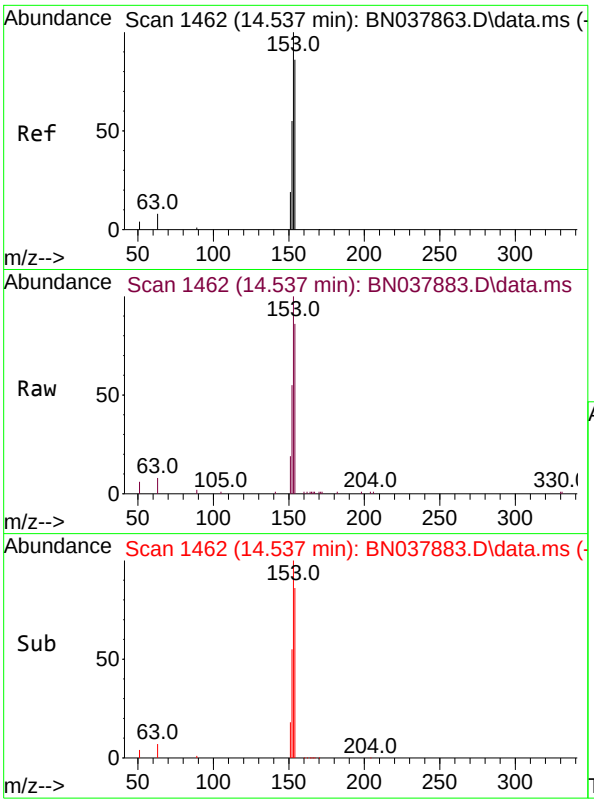


#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:152 Resp: 15429

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.8
153	12.8	10.5	15.7



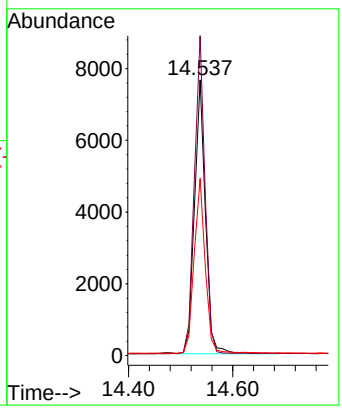


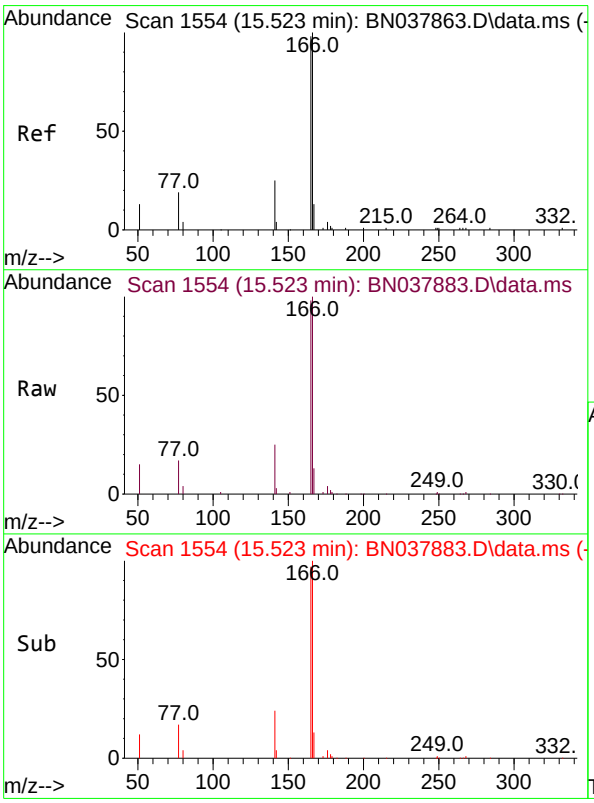
#17
Acenaphthene
Concen: 0.384 ng
RT: 14.537 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 11105

Ion	Ratio	Lower	Upper
154	100		
153	113.3	90.5	135.7
152	65.0	51.8	77.8

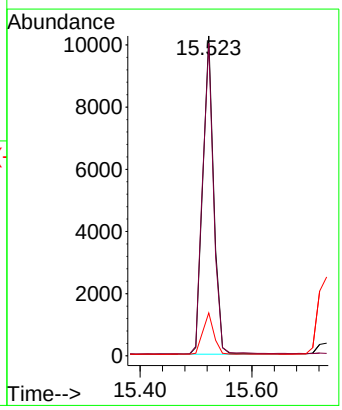


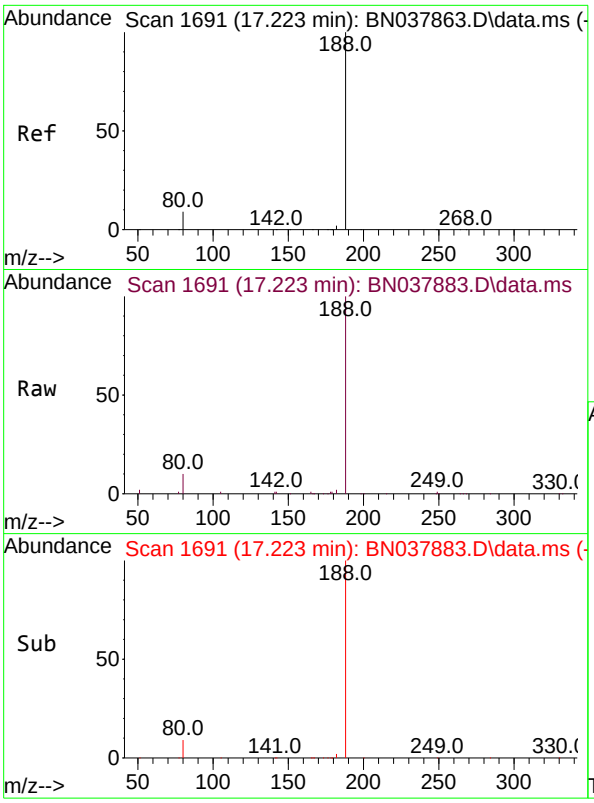


#18
Fluorene
Concen: 0.390 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:166 Resp: 13630

Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.0	118.4
167	12.6	10.6	16.0



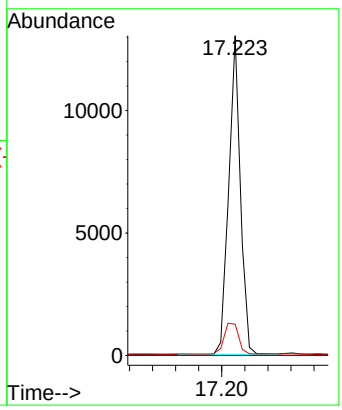


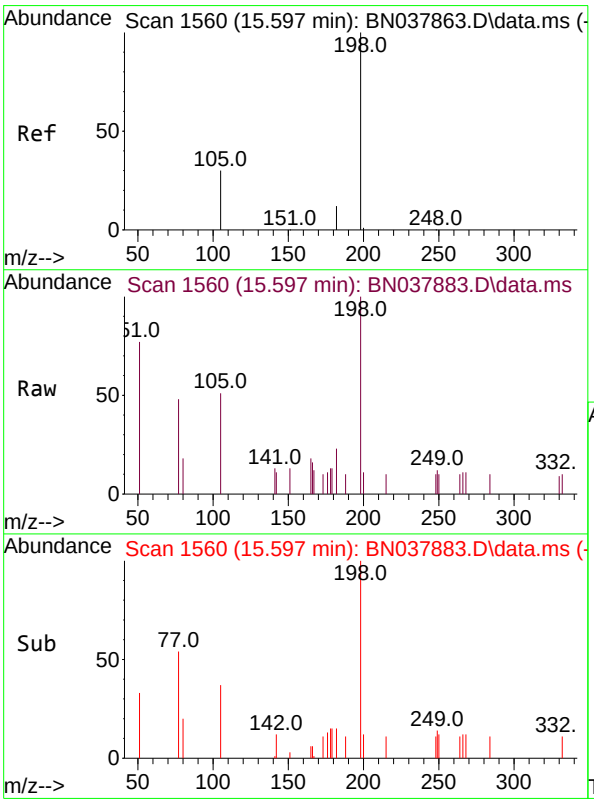
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 18224

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.8	7.6	11.4

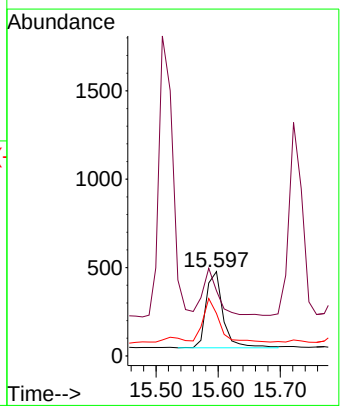


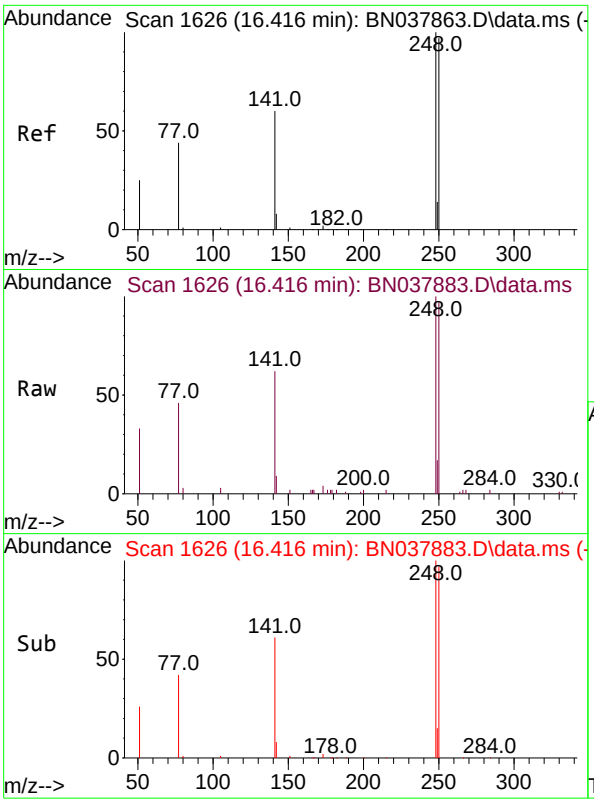


#20
4,6-Dinitro-2-methylphenol
Concen: 0.416 ng
RT: 15.597 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:198 Resp: 819

Ion	Ratio	Lower	Upper
198	100		
51	77.4	59.1	88.7
105	50.5	41.3	61.9



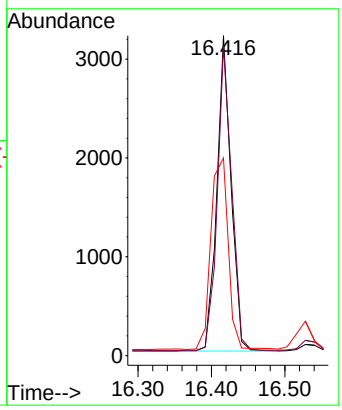


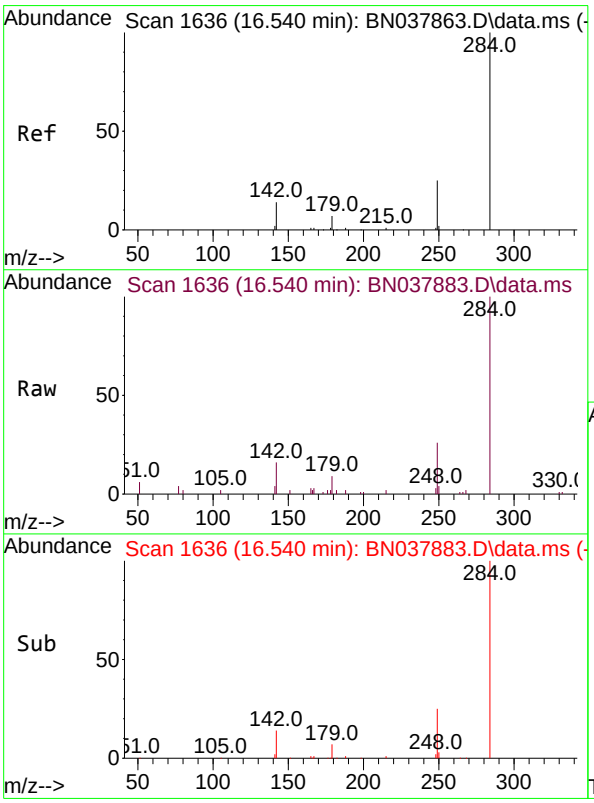
#21
4-Bromophenyl-phenylether
Concen: 0.362 ng
RT: 16.416 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 4303

Ion	Ratio	Lower	Upper
248	100		
250	96.7	77.6	116.4
141	61.7	48.8	73.2

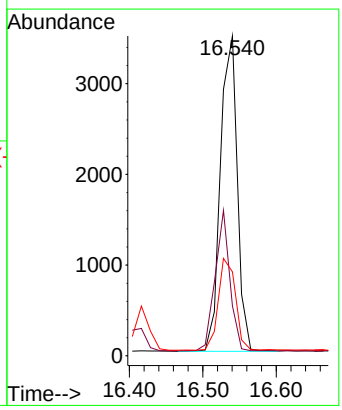


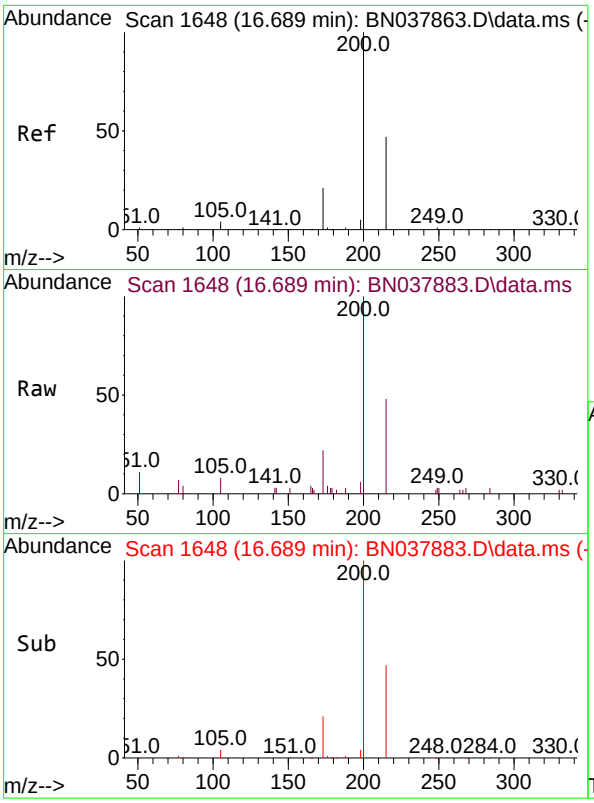


#22
Hexachlorobenzene
Concen: 0.387 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:284 Resp: 5574

Ion	Ratio	Lower	Upper
284	100		
142	39.0	30.9	46.3
249	29.9	23.9	35.9



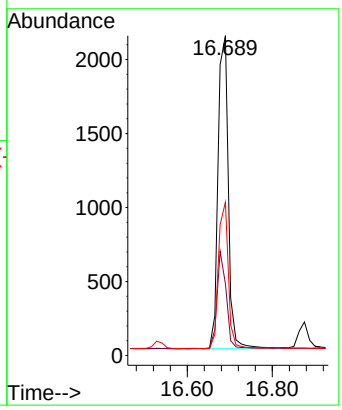


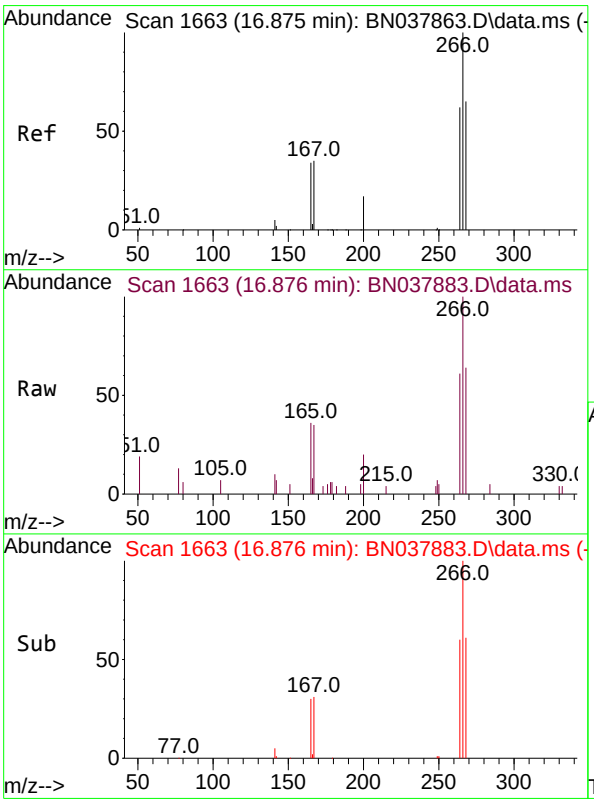
#23
Atrazine
Concen: 0.394 ng
RT: 16.689 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 3567

Ion	Ratio	Lower	Upper
200	100		
173	22.5	18.3	27.5
215	47.9	38.6	58.0

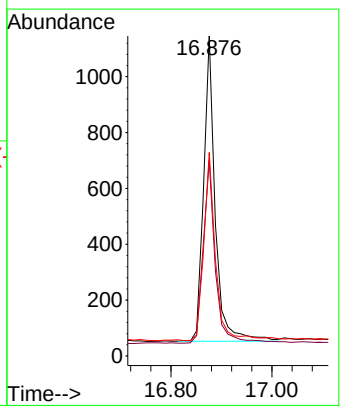


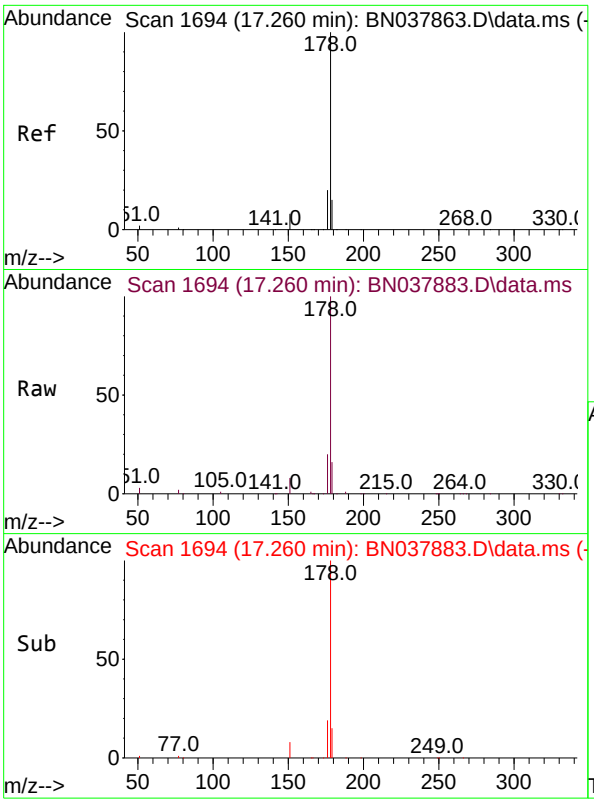


#24
Pentachlorophenol
Concen: 0.351 ng
RT: 16.876 min Scan# 1663
Delta R.T. 0.001 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:266 Resp: 1732

Ion	Ratio	Lower	Upper
266	100		
264	62.2	50.9	76.3
268	63.4	54.3	81.5



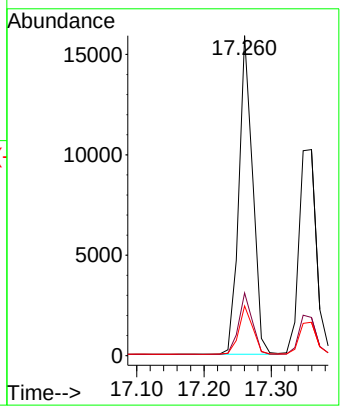


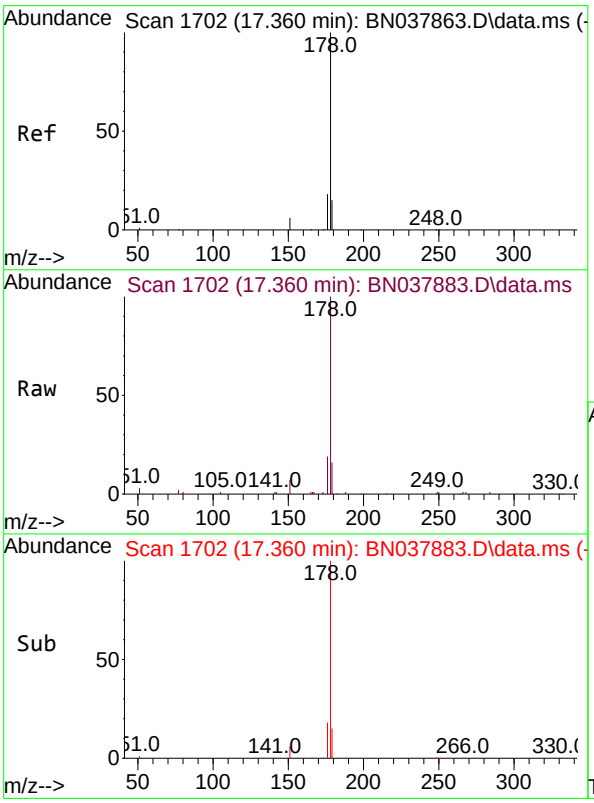
#25
Phenanthrene
Concen: 0.375 ng
RT: 17.260 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 22519

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.7	23.5
179	15.2	12.3	18.5

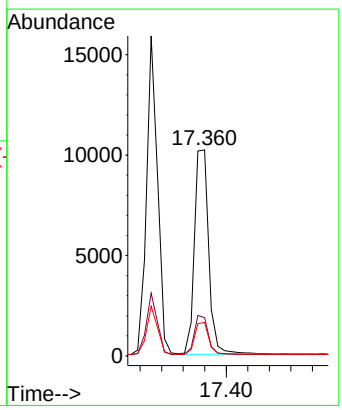


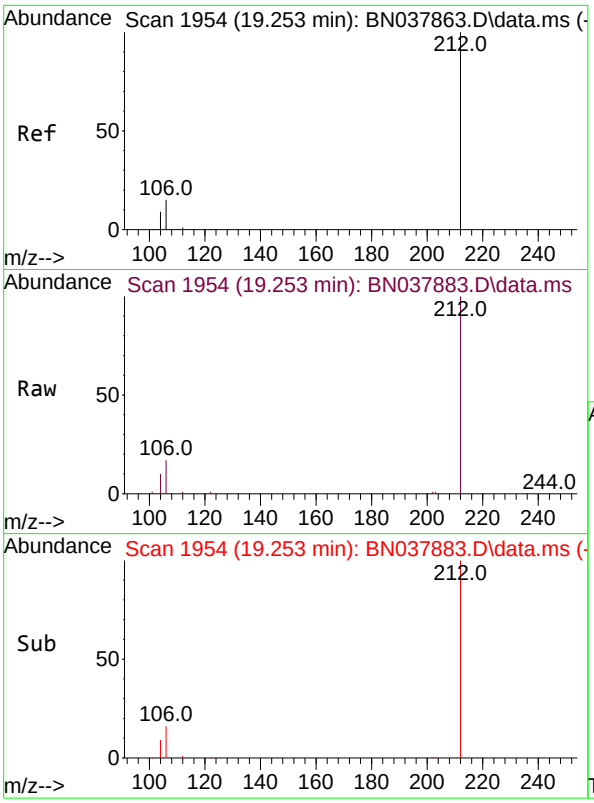


#26
Anthracene
Concen: 0.359 ng
RT: 17.360 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:178 Resp: 18701

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.4
179	15.3	12.3	18.5



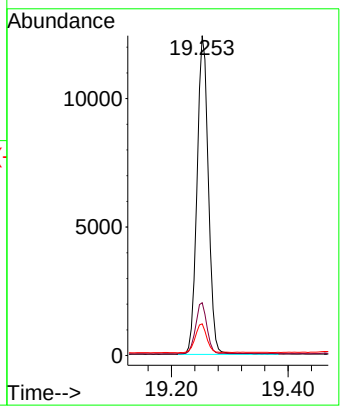


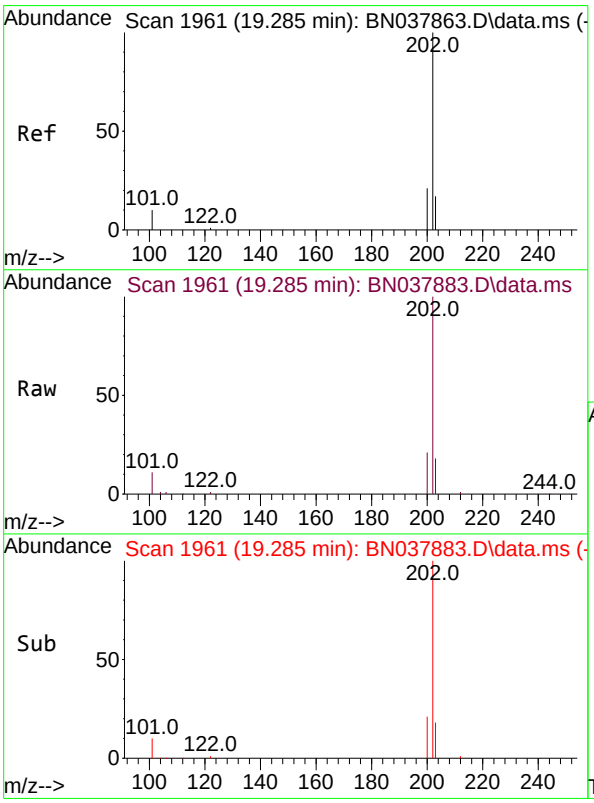
#27
Fluoranthene-d10
Concen: 0.364 ng
RT: 19.253 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 16679

Ion	Ratio	Lower	Upper
212	100		
106	16.1	12.6	19.0
104	9.2	7.4	11.0

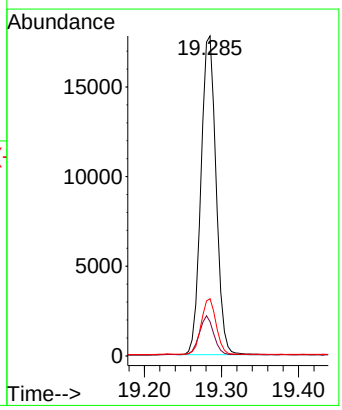


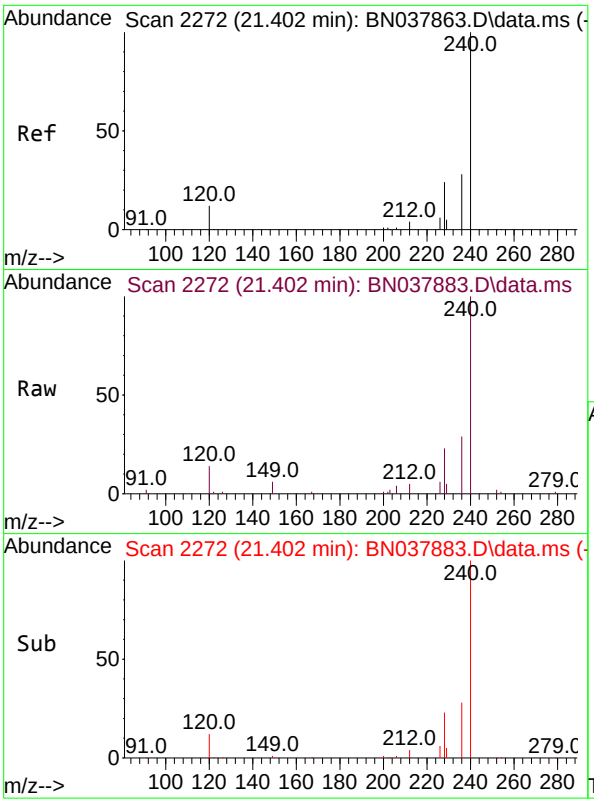


#28
Fluoranthene
Concen: 0.366 ng
RT: 19.285 min Scan# 1961
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:202 Resp: 24178

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.3	13.9
203	17.2	13.6	20.4



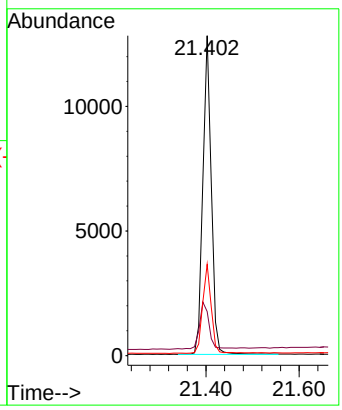


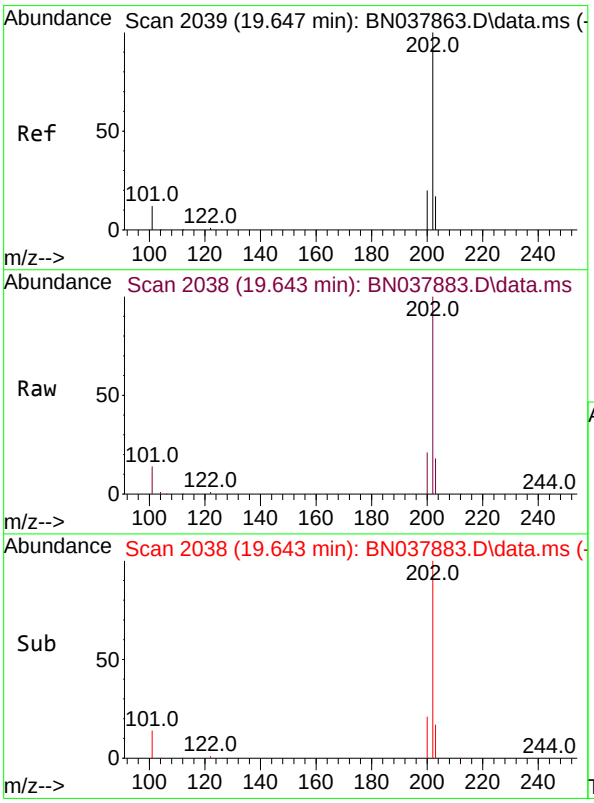
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 15951

Ion	Ratio	Lower	Upper
240	100		
120	13.8	11.4	17.2
236	28.5	23.0	34.6

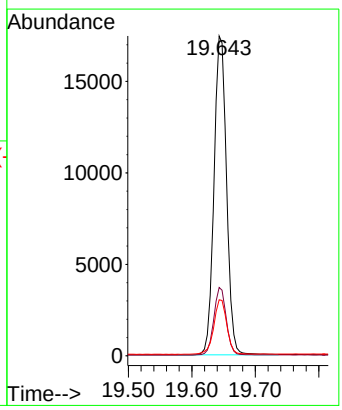


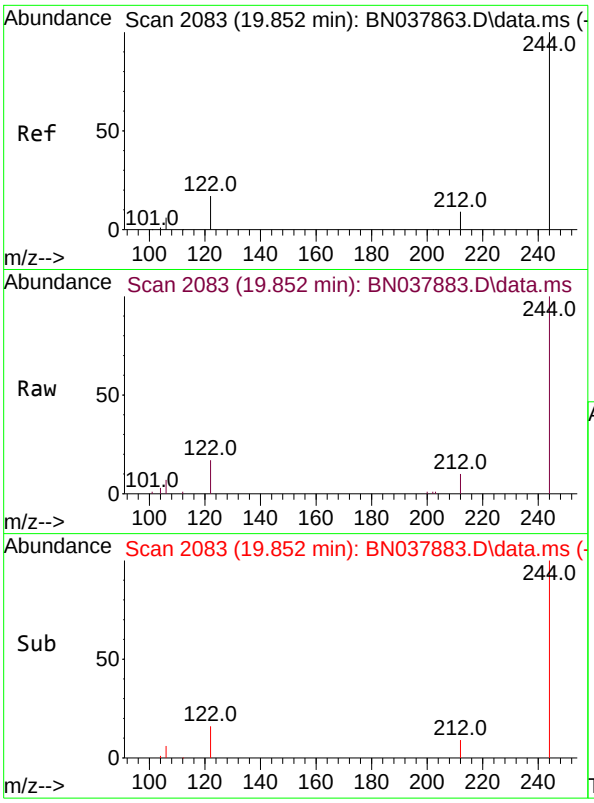


#30
Pyrene
Concen: 0.380 ng
RT: 19.643 min Scan# 2038
Delta R.T. -0.005 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:202 Resp: 23902

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.9	14.2	21.4



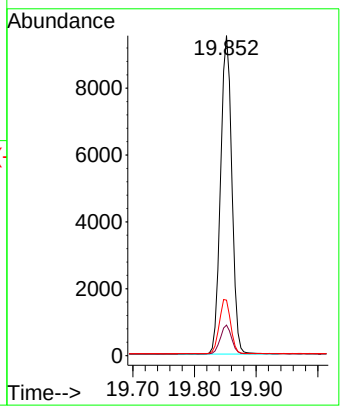


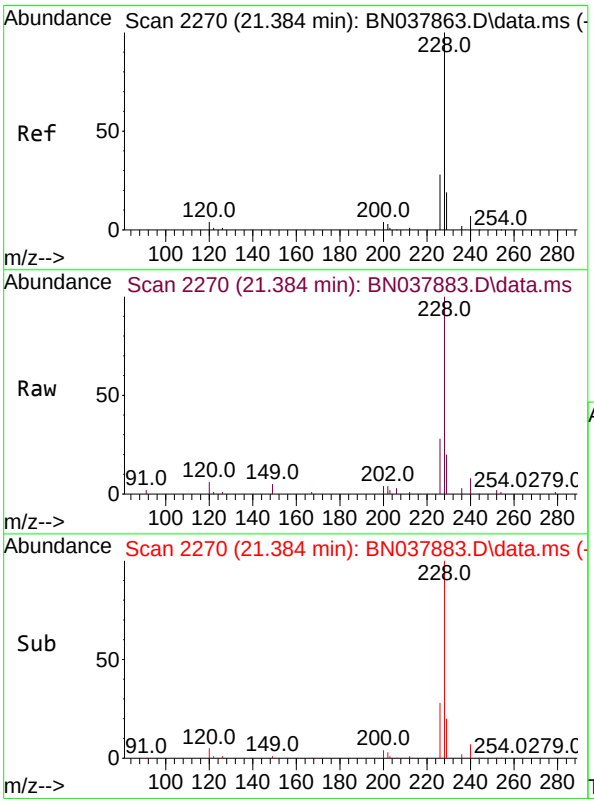
#31
Terphenyl-d14
Concen: 0.379 ng
RT: 19.852 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 12027

Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.4	13.9	20.9

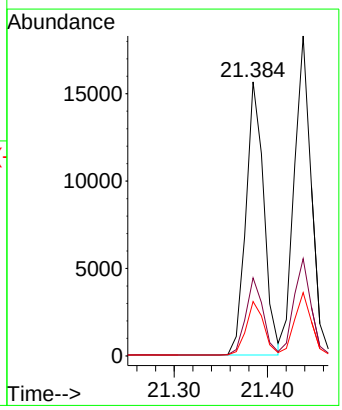


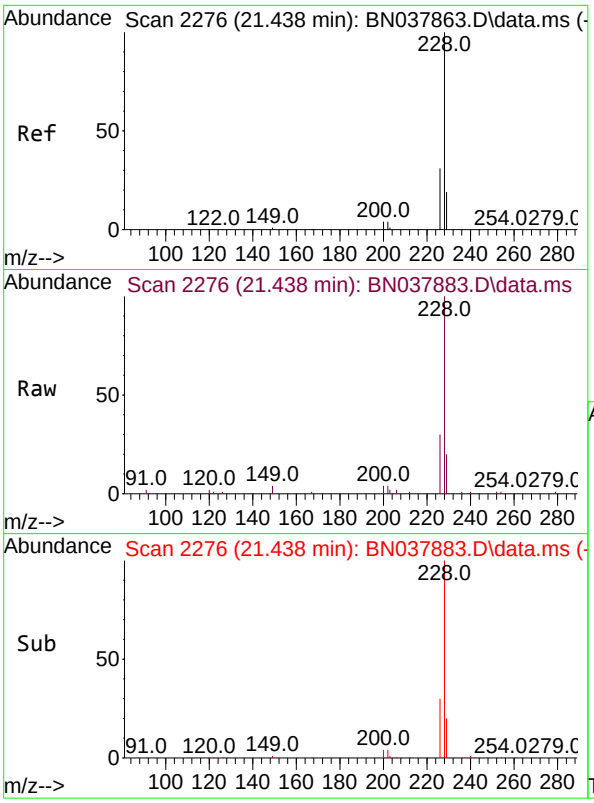


#32
Benzo(a)anthracene
Concen: 0.373 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:228 Resp: 20770

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	19.8	15.6	23.4



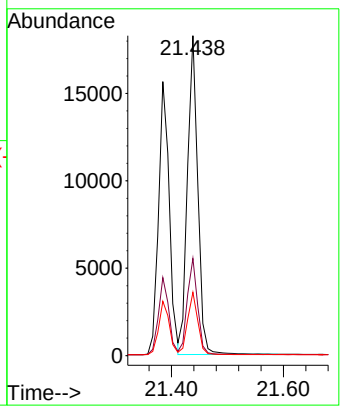


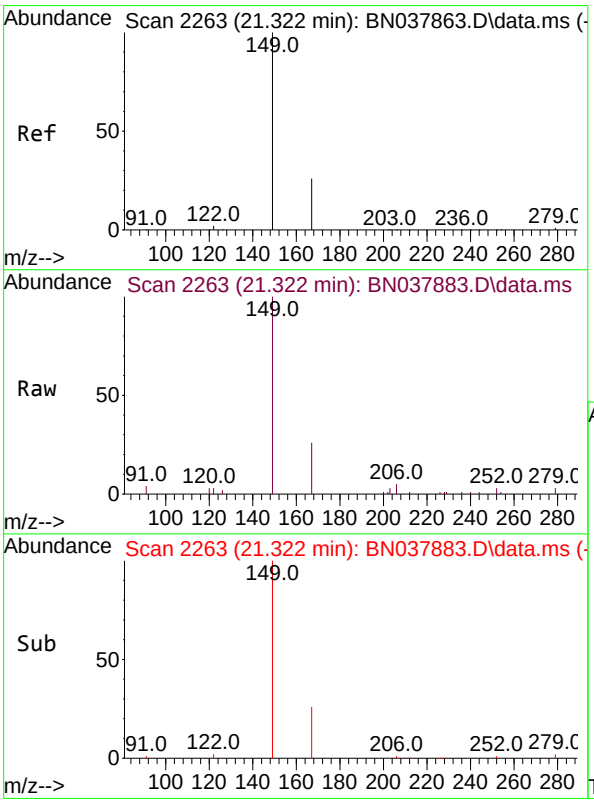
#33
Chrysene
Concen: 0.389 ng
RT: 21.438 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 23424

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	19.8	15.6	23.4

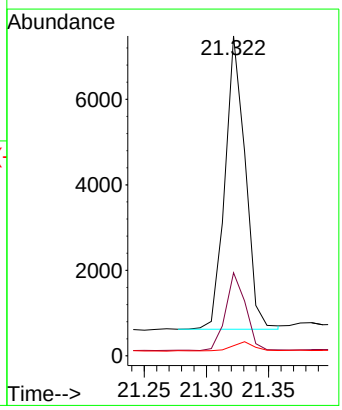


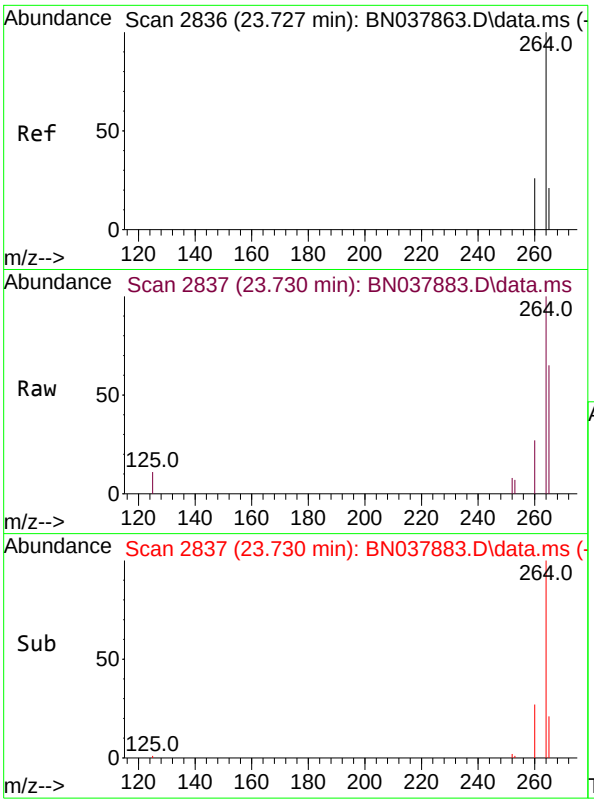


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.352 ng
RT: 21.322 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:149 Resp: 7768

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.4	30.6
279	3.7	2.4	3.6#



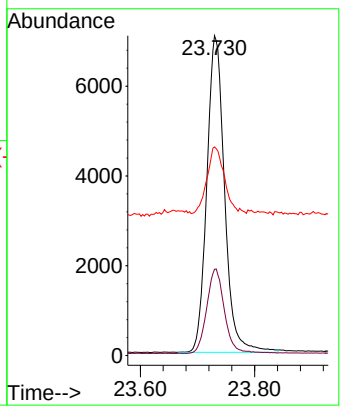


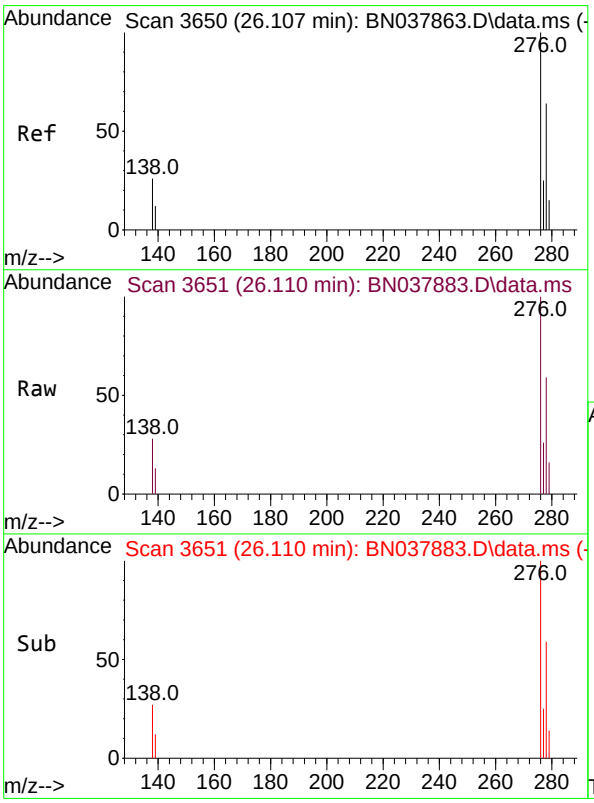
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.730 min Scan# 28
Delta R.T. 0.003 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 15181

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.5	32.3
265	65.2	53.8	80.6

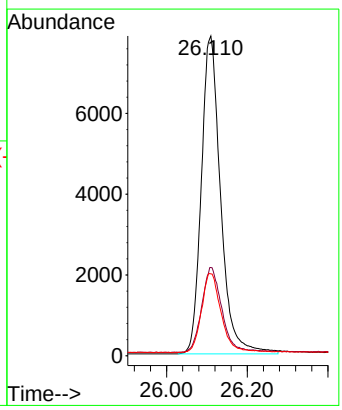


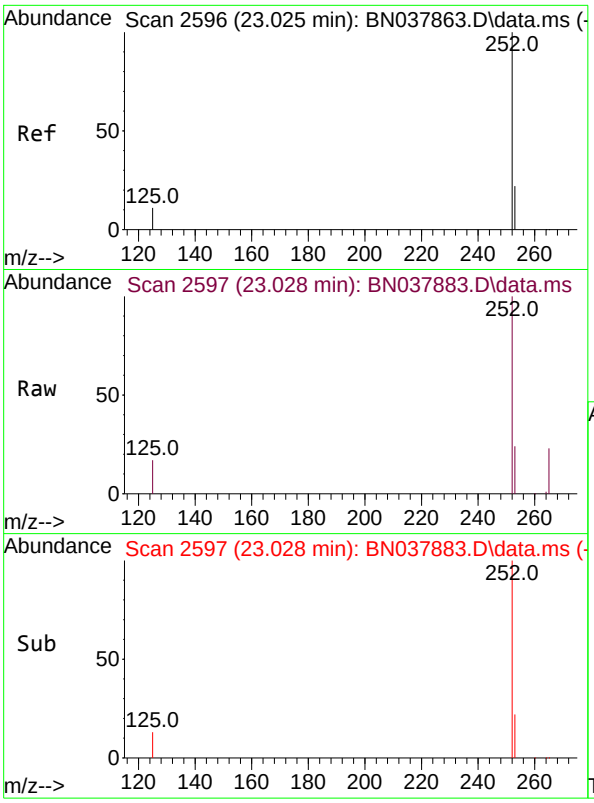


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 26.110 min Scan# 3651
Delta R.T. 0.003 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:276 Resp: 26167

Ion	Ratio	Lower	Upper
276	100		
138	27.4	21.4	32.0
277	24.8	20.3	30.5



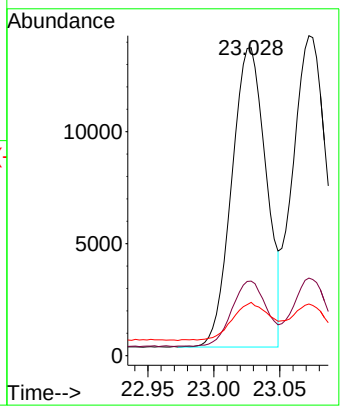


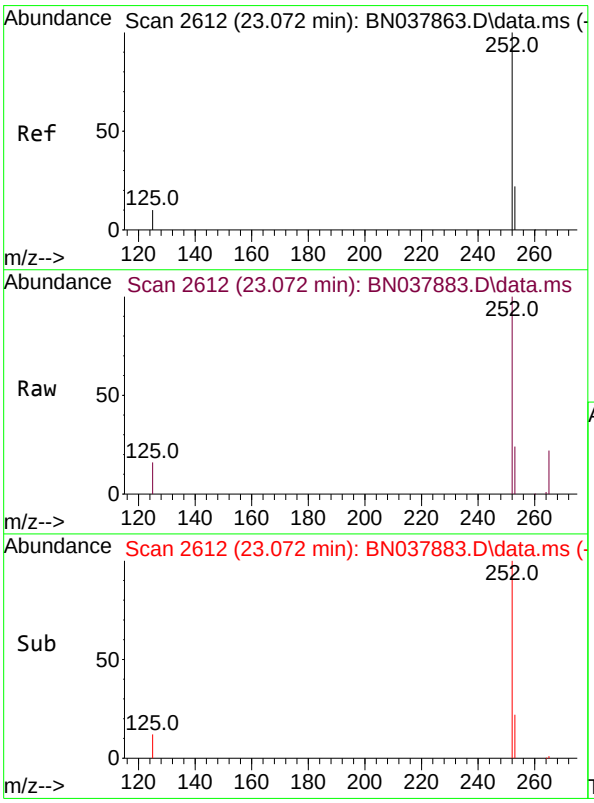
#37
Benzo(b)fluoranthene
Concen: 0.371 ng
RT: 23.028 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 24299

Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.4	29.0
125	17.3	13.0	19.4

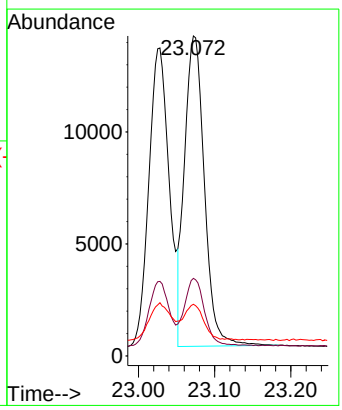


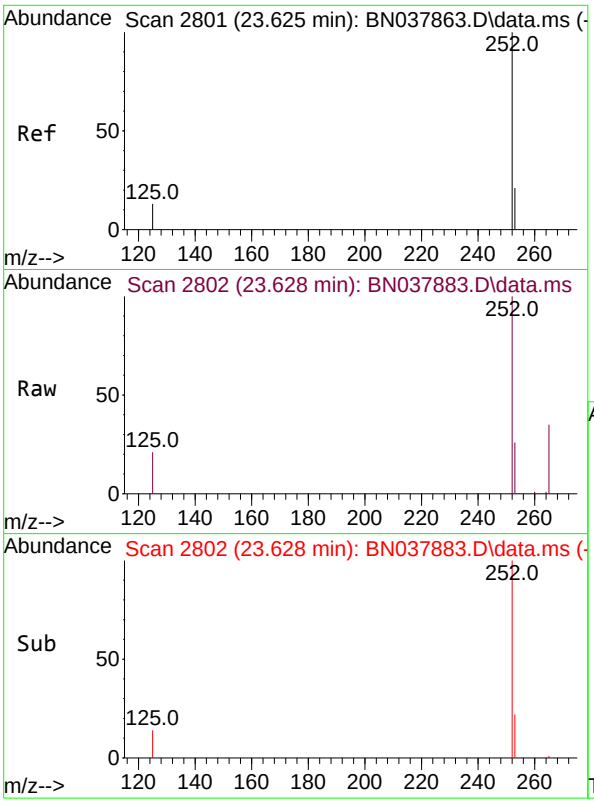


#38
Benzo(k)fluoranthene
Concen: 0.380 ng
RT: 23.072 min Scan# 2612
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:252 Resp: 25034

Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.5	29.3
125	16.1	13.0	19.4



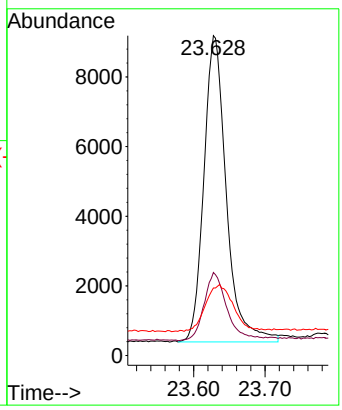


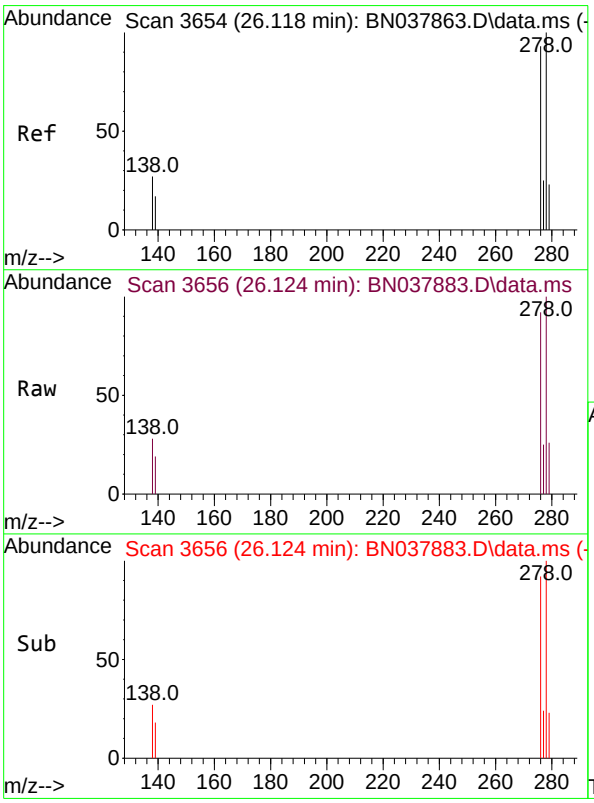
#39
Benzo(a)pyrene
Concen: 0.371 ng
RT: 23.628 min Scan# 28
Delta R.T. 0.003 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 19225

Ion	Ratio	Lower	Upper
252	100		
253	26.0	20.6	30.8
125	21.1	16.7	25.1

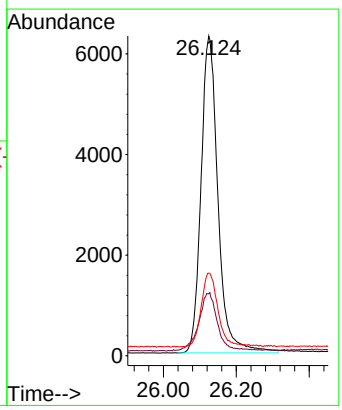


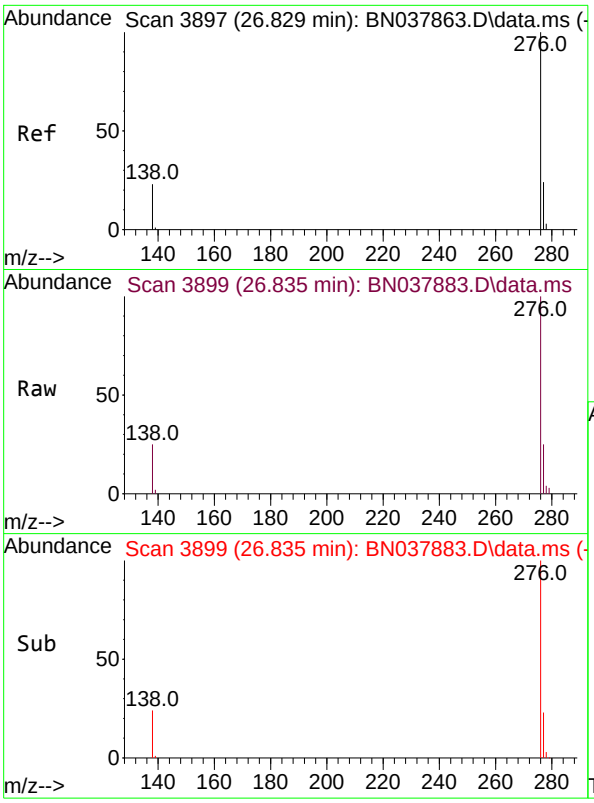


#40
Dibenzo(a,h)anthracene
Concen: 0.375 ng
RT: 26.124 min Scan# 3656
Delta R.T. 0.006 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:278 Resp: 20318

Ion	Ratio	Lower	Upper
278	100		
139	19.4	15.4	23.2
279	25.9	20.8	31.2



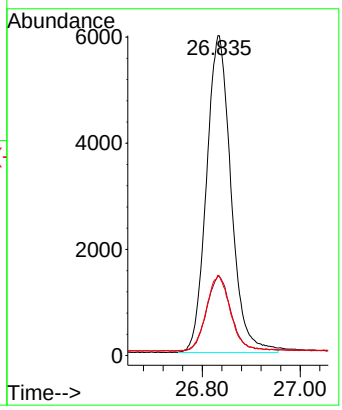


#41
Benzo(g,h,i)perylene
Concen: 0.366 ng
RT: 26.835 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 20812

Ion	Ratio	Lower	Upper
276	100		
277	24.7	20.2	30.4
138	24.9	19.8	29.8



Sample Results: **BN037883.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037883.D
Acq On : 25 Sep 2025 11:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 25 13:29:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
2		1,4-Dioxane	0.406	0.421	-3.7	105	0.00
3		n-Nitrosodimethylamine	0.540	0.519	3.9	102	0.00
4	S	2-Fluorophenol	0.913	0.967	-5.9	115	0.00
5	S	Phenol-d6	1.199	1.243	-3.7	113	0.00
6		bis(2-Chloroethyl)ether	1.113	1.110	0.3	105	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
8	S	Nitrobenzene-d5	0.305	0.321	-5.2	119	0.00
9		Naphthalene	1.102	1.100	0.2	113	0.00
10		Hexachlorobutadiene	0.188	0.193	-2.7	114	0.00
11	SURR	2-Methylnaphthalene-d10	0.556	0.515	7.4	111	0.00
12		2-Methylnaphthalene	0.720	0.697	3.2	112	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	108	0.00
14	S	2,4,6-Tribromophenol	0.152	0.143	5.9	115	0.00
15	S	2-Fluorobiphenyl	1.638	1.650	-0.7	115	0.00
16		Acenaphthylene	1.816	1.726	5.0	113	0.00
17		Acenaphthene	1.294	1.242	4.0	112	0.00
18		Fluorene	1.565	1.525	2.6	114	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00
20		4,6-Dinitro-2-methylphenol	0.057	0.045	21.1	118	0.00
21		4-Bromophenyl-phenylether	0.261	0.236	9.6	110	0.00
22		Hexachlorobenzene	0.316	0.306	3.2	115	0.00
23		Atrazine	0.199	0.196	1.5	130	0.00
24		Pentachlorophenol	0.108	0.095	12.0	118	0.00
25		Phenanthrene	1.316	1.236	6.1	115	0.00
26		Anthracene	1.142	1.026	10.2	115	0.00
27	SURR	Fluoranthene-d10	1.006	0.915	9.0	118	0.00
28		Fluoranthene	1.450	1.327	8.5	116	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	117	0.00
30		Pyrene	1.579	1.498	5.1	116	0.00
31	S	Terphenyl-d14	0.797	0.754	5.4	118	0.00
32		Benzo(a)anthracene	1.398	1.302	6.9	118	0.00
33		Chrysene	1.512	1.468	2.9	118	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.487	11.9	117	0.00
35	I	Perylene-d12	1.000	1.000	0.0	121	0.00
36		Indeno(1,2,3-cd)pyrene	1.828	1.724	5.7	125	0.00
37		Benzo(b)fluoranthene	1.725	1.601	7.2	118	0.00
38		Benzo(k)fluoranthene	1.736	1.649	5.0	125	0.00
39	C	Benzo(a)pyrene	1.364	1.266	7.2	124	0.00
40		Dibenzo(a,h)anthracene	1.427	1.338	6.2	124	0.00
41		Benzo(g,h,i)perylene	1.499	1.371	8.5	118	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN037883.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037883.D
Acq On : 25 Sep 2025 11:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 25 13:29:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	102	0.00
2		1,4-Dioxane	0.400	0.415	-3.7	105	0.00
3		n-Nitrosodimethylamine	0.400	0.385	3.8	102	0.00
4	S	2-Fluorophenol	0.400	0.424	-6.0	115	0.00
5	S	Phenol-d6	0.400	0.415	-3.7	113	0.00
6		bis(2-Chloroethyl)ether	0.400	0.399	0.3	105	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	107	0.00
8	S	Nitrobenzene-d5	0.400	0.421	-5.2	119	0.00
9		Naphthalene	0.400	0.399	0.3	113	0.00
10		Hexachlorobutadiene	0.400	0.410	-2.5	114	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.371	7.3	111	0.00
12		2-Methylnaphthalene	0.400	0.387	3.3	112	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	108	0.00
14	S	2,4,6-Tribromophenol	0.400	0.378	5.5	115	0.00
15	S	2-Fluorobiphenyl	0.400	0.403	-0.8	115	0.00
16		Acenaphthylene	0.400	0.380	5.0	113	0.00
17		Acenaphthene	0.400	0.384	4.0	112	0.00
18		Fluorene	0.400	0.390	2.5	114	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	114	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.416	-4.0	118	0.00
21		4-Bromophenyl-phenylether	0.400	0.362	9.5	110	0.00
22		Hexachlorobenzene	0.400	0.387	3.3	115	0.00
23		Atrazine	0.400	0.394	1.5	130	0.00
24		Pentachlorophenol	0.400	0.351	12.3	118	0.00
25		Phenanthrene	0.400	0.375	6.3	115	0.00
26		Anthracene	0.400	0.359	10.3	115	0.00
27	SURR	Fluoranthene-d10	0.400	0.364	9.0	118	0.00
28		Fluoranthene	0.400	0.366	8.5	116	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	117	0.00
30		Pyrene	0.400	0.380	5.0	116	0.00
31	S	Terphenyl-d14	0.400	0.379	5.3	118	0.00
32		Benzo(a)anthracene	0.400	0.373	6.8	118	0.00
33		Chrysene	0.400	0.389	2.8	118	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.352	12.0	117	0.00
35	I	Perylene-d12	0.400	0.400	0.0	121	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.377	5.8	125	0.00
37		Benzo(b)fluoranthene	0.400	0.371	7.3	118	0.00
38		Benzo(k)fluoranthene	0.400	0.380	5.0	125	0.00
39	C	Benzo(a)pyrene	0.400	0.371	7.3	124	0.00
40		Dibenzo(a,h)anthracene	0.400	0.375	6.3	124	0.00
41		Benzo(g,h,i)perylene	0.400	0.366	8.5	118	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3097

Instrument ID: BNA_N Calibration Date/Time: 09/25/2025 22:31

Lab File ID: BN037901.D Init. Calib. Date(s): 09/23/2025 09/23/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:13 15:51

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.514		-7.6	50.0
Fluoranthene-d10	1.006	0.920		-8.5	50.0
2-Fluorophenol	0.913	0.982		7.6	50.0
Phenol-d6	1.199	1.281		6.8	50.0
Nitrobenzene-d5	0.305	0.313		2.6	50.0
2-Fluorobiphenyl	1.638	1.527		-6.8	50.0
2,4,6-Tribromophenol	0.152	0.142		-6.6	50.0
Terphenyl-d14	0.797	0.761		-4.5	50.0
1,4-Dioxane	0.406	0.415		2.2	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037901.D
Acq On : 25 Sep 2025 22:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 25 23:51:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

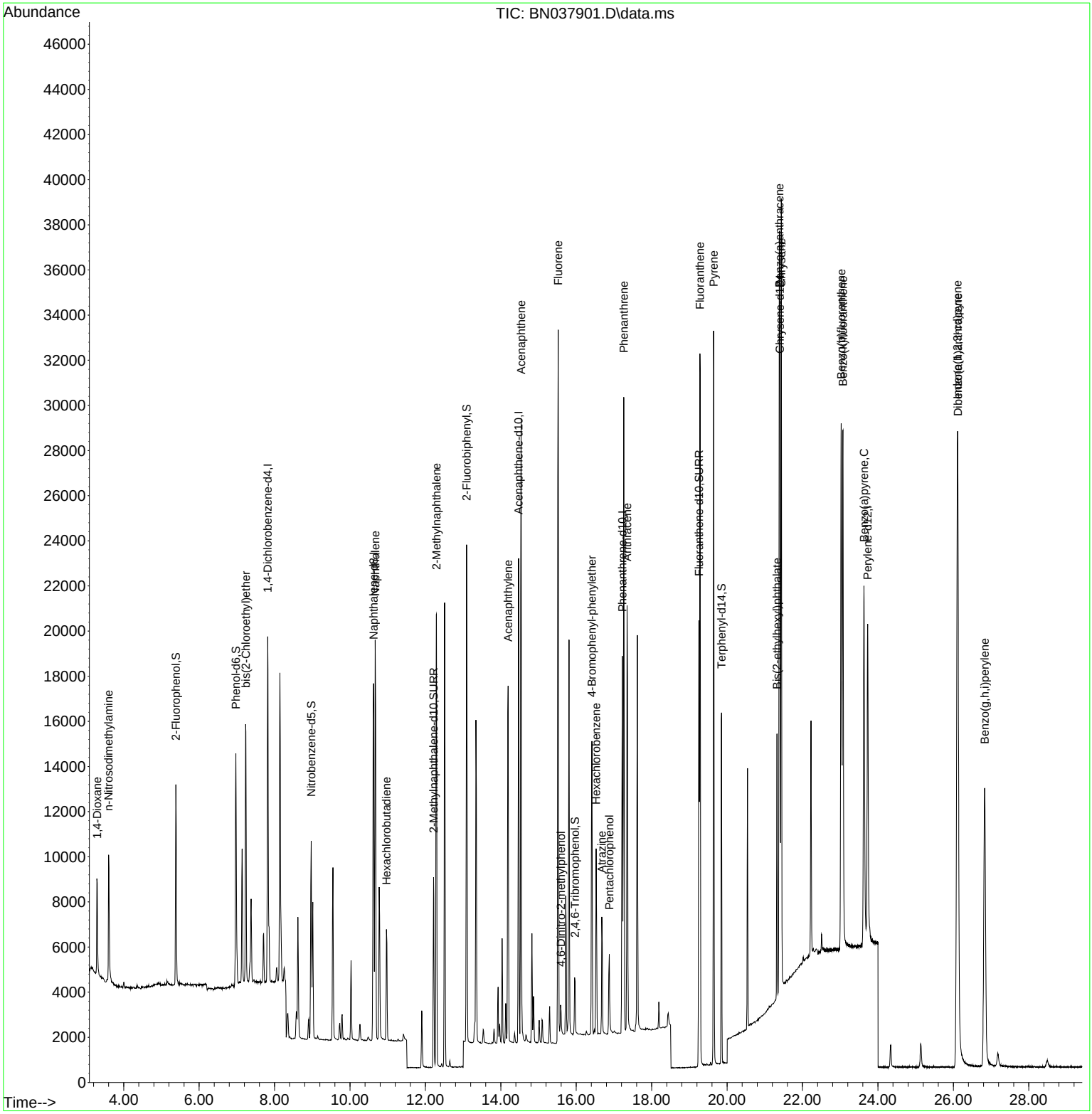
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.818	152	7512	0.400	ng		0.00
7) Naphthalene-d8	10.626	136	21514	0.400	ng		0.00
13) Acenaphthene-d10	14.473	164	11178	0.400	ng		0.00
19) Phenanthrene-d10	17.223	188	22063	0.400	ng		0.00
29) Chrysene-d12	21.402	240	18965	0.400	ng		0.00
35) Perylene-d12	23.730	264	19432	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.384	112	7379	0.430	ng		0.00
5) Phenol-d6	6.973	99	9626	0.427	ng		0.00
8) Nitrobenzene-d5	8.971	82	6744	0.411	ng		0.00
11) 2-Methylnaphthalene-d10	12.217	152	11067	0.370	ng		0.00
14) 2,4,6-Tribromophenol	15.969	330	1585	0.374	ng		0.00
15) 2-Fluorobiphenyl	13.094	172	17074	0.373	ng		0.00
27) Fluoranthene-d10	19.253	212	20296	0.366	ng		0.00
31) Terphenyl-d14	19.852	244	14438	0.382	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	3121	0.409	ng		97
3) n-Nitrosodimethylamine	3.600	42	3686	0.363	ng	#	91
6) bis(2-Chloroethyl)ether	7.240	93	8515	0.407	ng		100
9) Naphthalene	10.669	128	23529	0.397	ng		99
10) Hexachlorobutadiene	10.968	225	4020	0.398	ng	#	100
12) 2-Methylnaphthalene	12.293	142	14799	0.382	ng		98
16) Acenaphthylene	14.195	152	18759	0.370	ng		100
17) Acenaphthene	14.537	154	13596	0.376	ng		99
18) Fluorene	15.523	166	16239	0.371	ng		100
20) 4,6-Dinitro-2-methylph...	15.597	198	976	0.410	ng	#	87
21) 4-Bromophenyl-phenylether	16.416	248	5160	0.359	ng		94
22) Hexachlorobenzene	16.528	284	6462	0.371	ng		99
23) Atrazine	16.677	200	4270	0.390	ng	#	90
24) Pentachlorophenol	16.875	266	1948	0.326	ng		98
25) Phenanthrene	17.260	178	26713	0.368	ng		100
26) Anthracene	17.347	178	22252	0.353	ng		100
28) Fluoranthene	19.280	202	28968	0.362	ng		99
30) Pyrene	19.643	202	28732	0.384	ng		99
32) Benzo(a)anthracene	21.384	228	24796	0.374	ng		100
33) Chrysene	21.438	228	27866	0.389	ng		100
34) Bis(2-ethylhexyl)phtha...	21.322	149	9764	0.372	ng		98
36) Indeno(1,2,3-cd)pyrene	26.107	276	37256	0.420	ng		98
37) Benzo(b)fluoranthene	23.025	252	30958	0.369	ng		99
38) Benzo(k)fluoranthene	23.072	252	30978	0.367	ng		100
39) Benzo(a)pyrene	23.630	252	25319	0.382	ng	#	95
40) Dibenzo(a,h)anthracene	26.118	278	28899	0.417	ng		99
41) Benzo(g,h,i)perylene	26.832	276	28258	0.388	ng		99

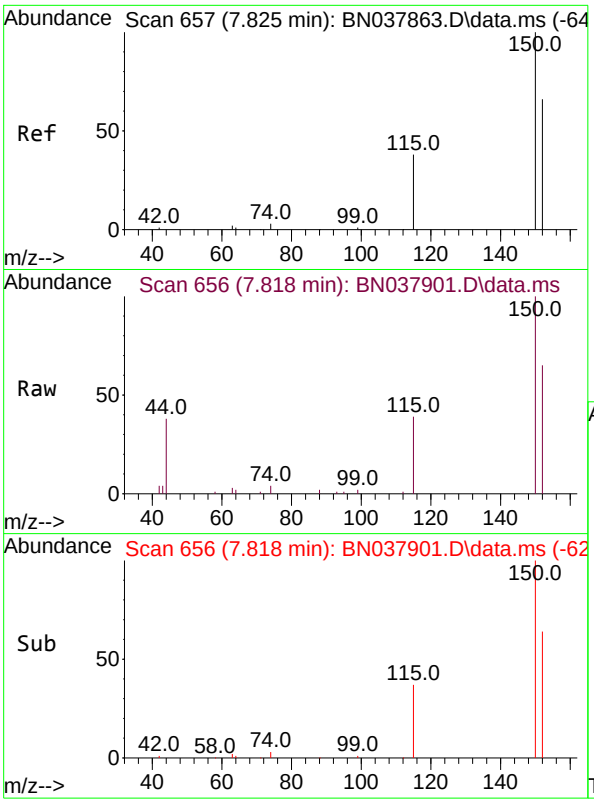
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037901.D
Acq On : 25 Sep 2025 22:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 25 23:51:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



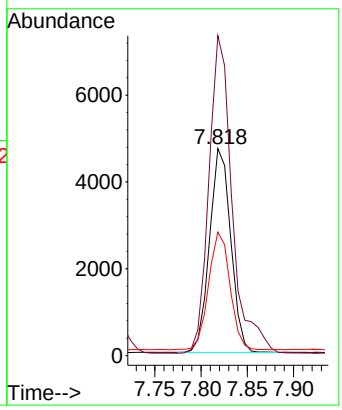


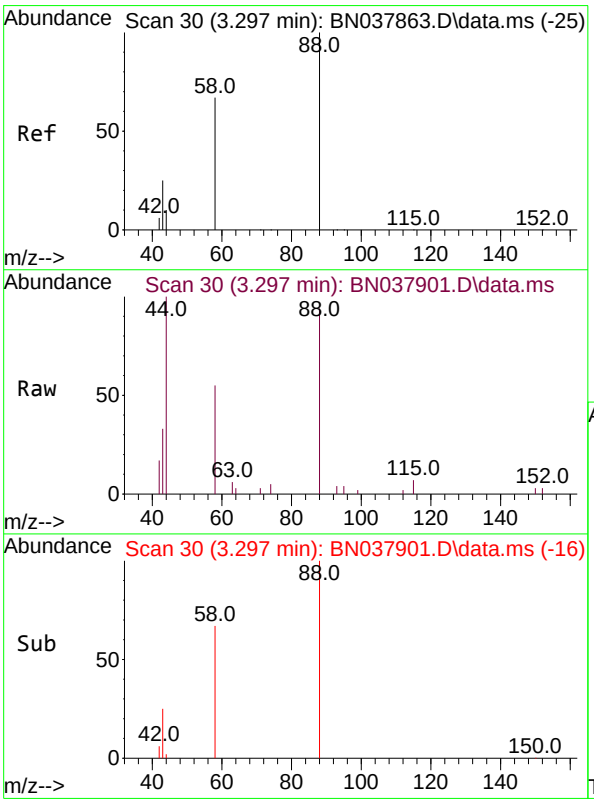
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 7512

Ion	Ratio	Lower	Upper
152	100		
150	154.6	121.0	181.4
115	59.6	47.4	71.0

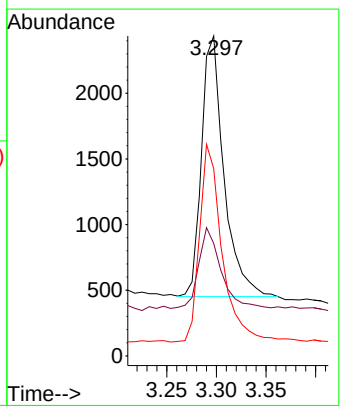


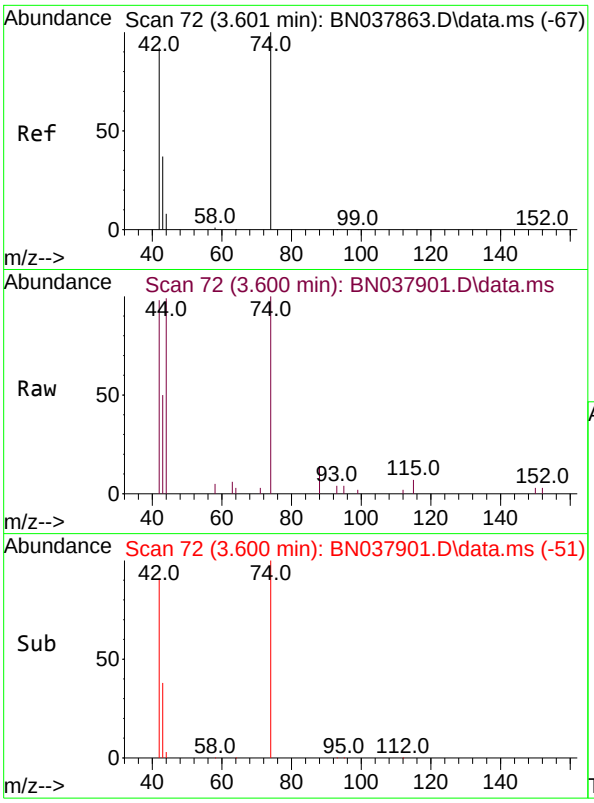


#2
1,4-Dioxane
Concen: 0.409 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion: 88 Resp: 3121

Ion	Ratio	Lower	Upper
88	100		
43	31.9	26.6	39.8
58	76.2	58.9	88.3



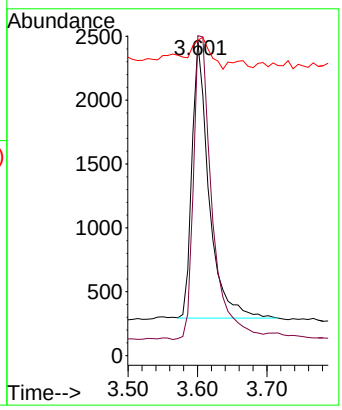


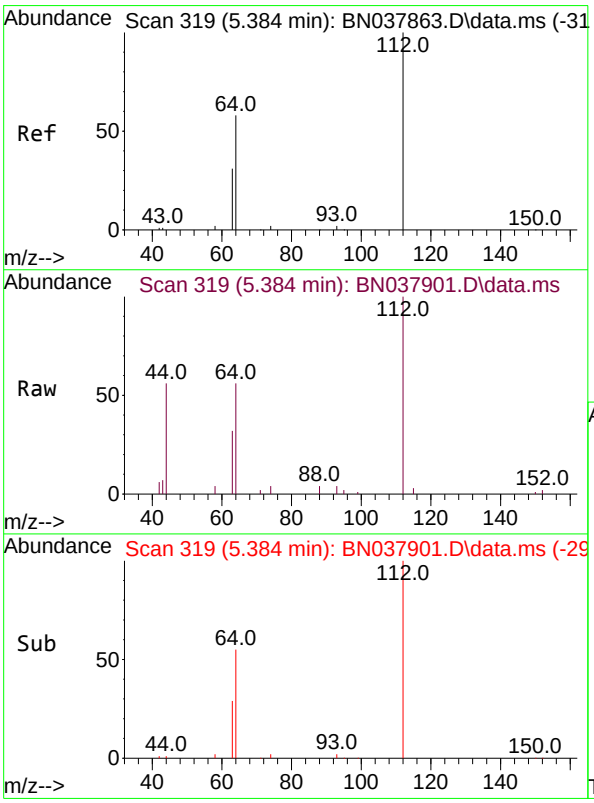
#3
n-Nitrosodimethylamine
Concen: 0.363 ng
RT: 3.600 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 3686

Ion	Ratio	Lower	Upper
42	100		
74	121.1	93.4	140.0
44	11.4	22.2	33.4#

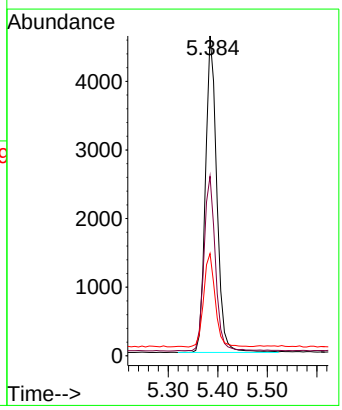


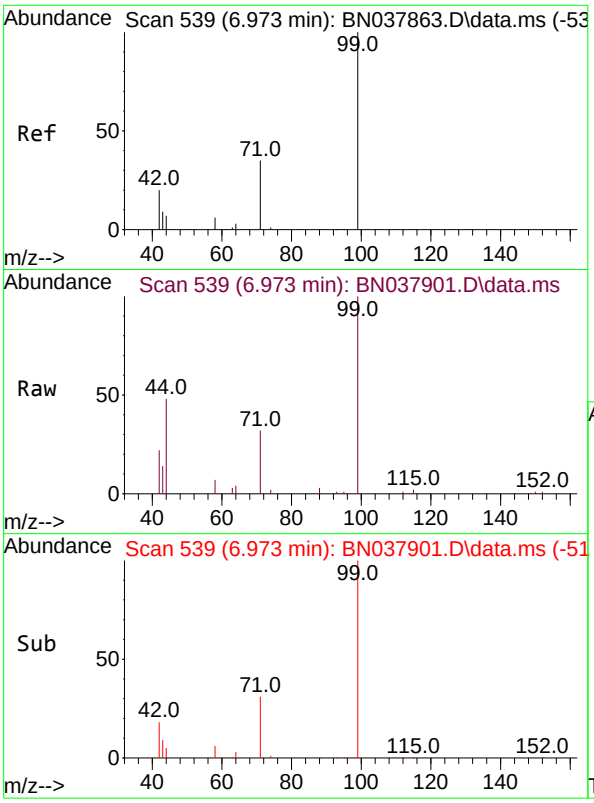


#4
2-Fluorophenol
Concen: 0.430 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:112 Resp: 7379

Ion	Ratio	Lower	Upper
112	100		
64	54.9	44.6	66.8
63	30.0	24.9	37.3



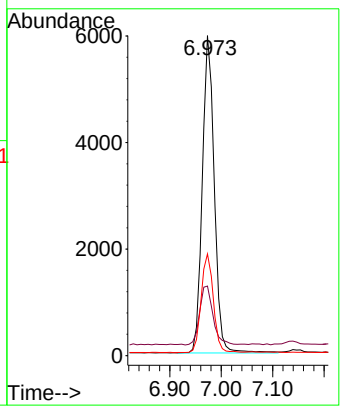


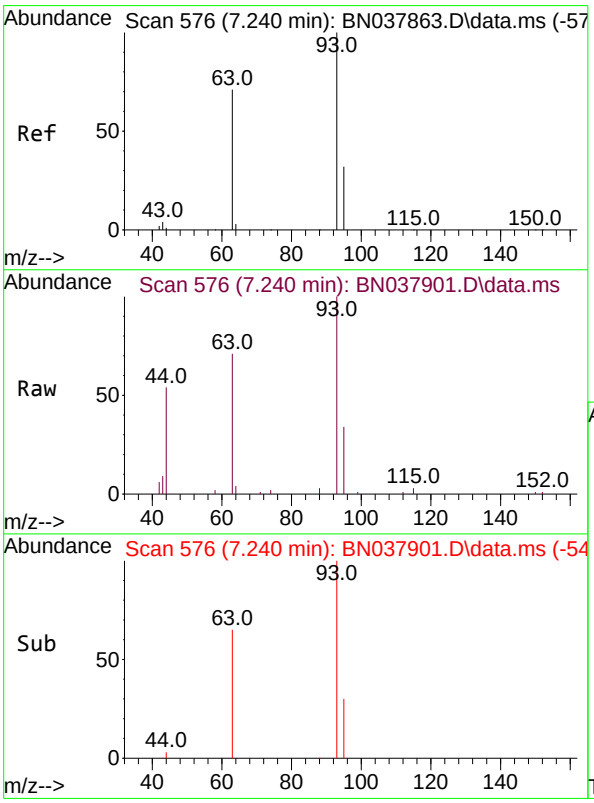
#5
Phenol-d6
Concen: 0.427 ng
RT: 6.973 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 9626

Ion	Ratio	Lower	Upper
99	100		
42	20.8	17.2	25.8
71	31.7	27.3	40.9

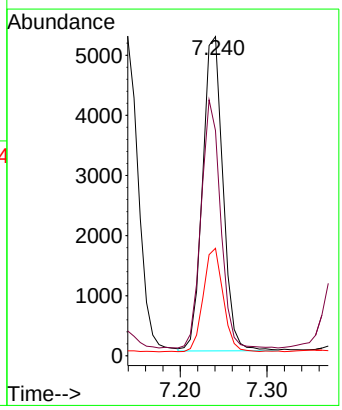


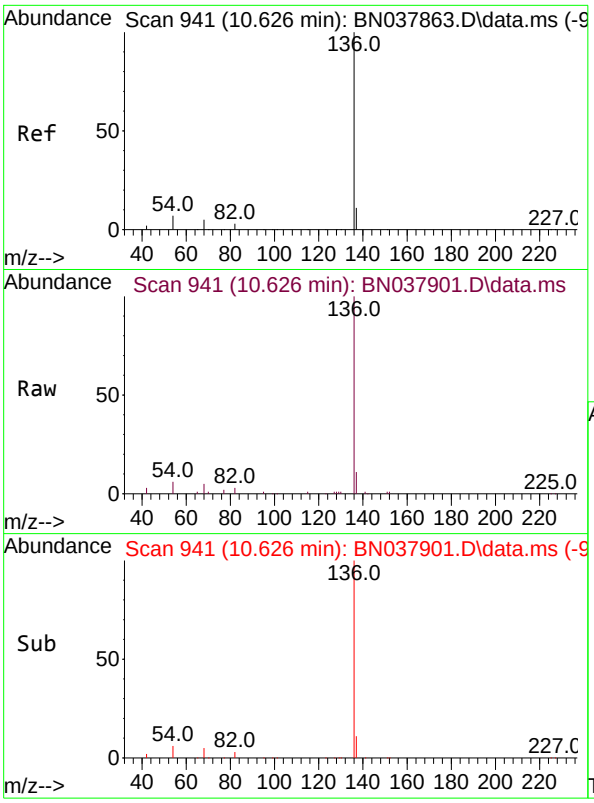


#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 7.240 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion: 93 Resp: 8515

Ion	Ratio	Lower	Upper
93	100		
63	75.0	60.1	90.1
95	32.2	25.4	38.2



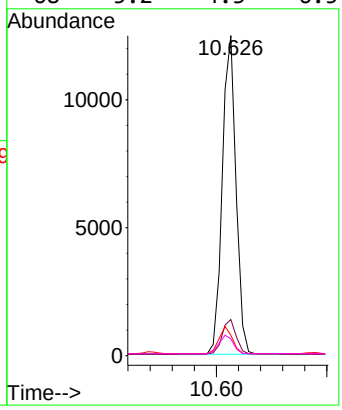


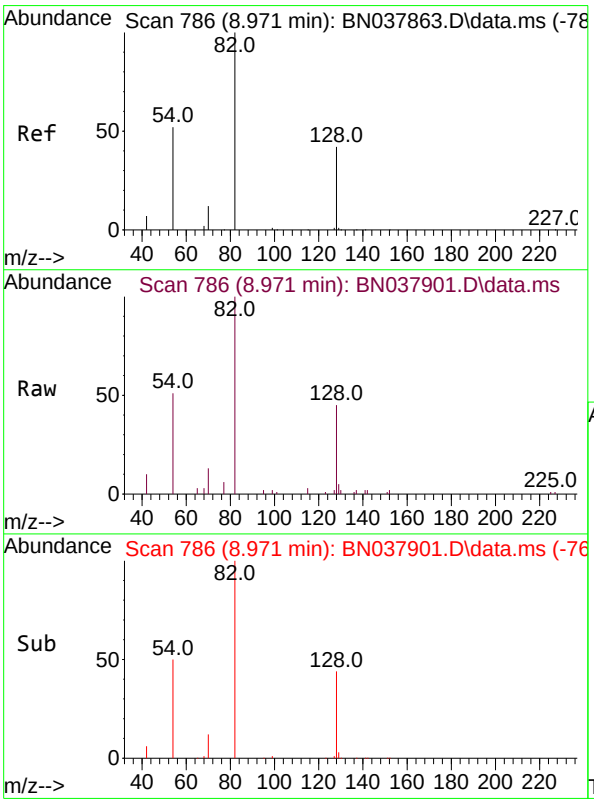
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 21514

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	6.4	5.8	8.8
68	5.2	4.3	6.5

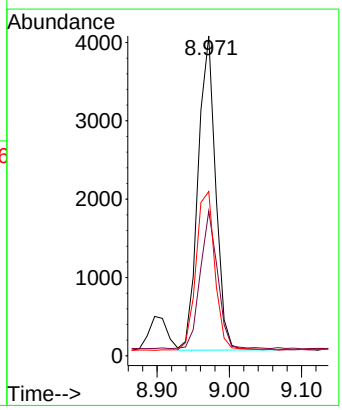


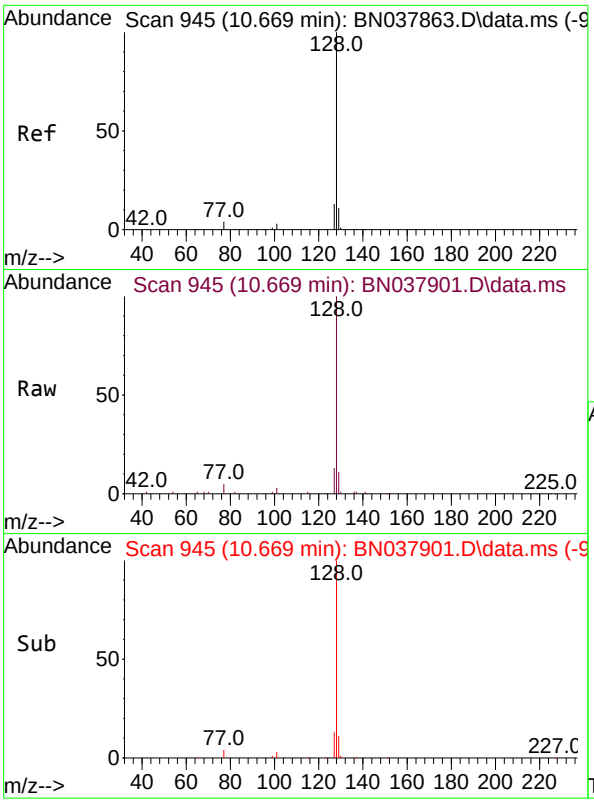


#8
Nitrobenzene-d5
Concen: 0.411 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion: 82 Resp: 6744

Ion	Ratio	Lower	Upper
82	100		
128	45.2	34.8	52.2
54	51.3	42.2	63.2



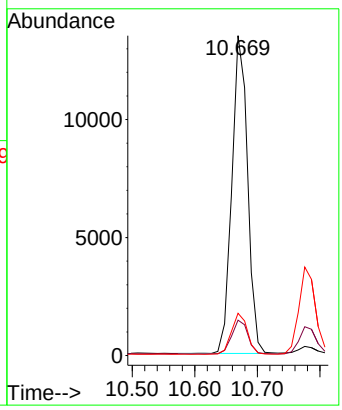


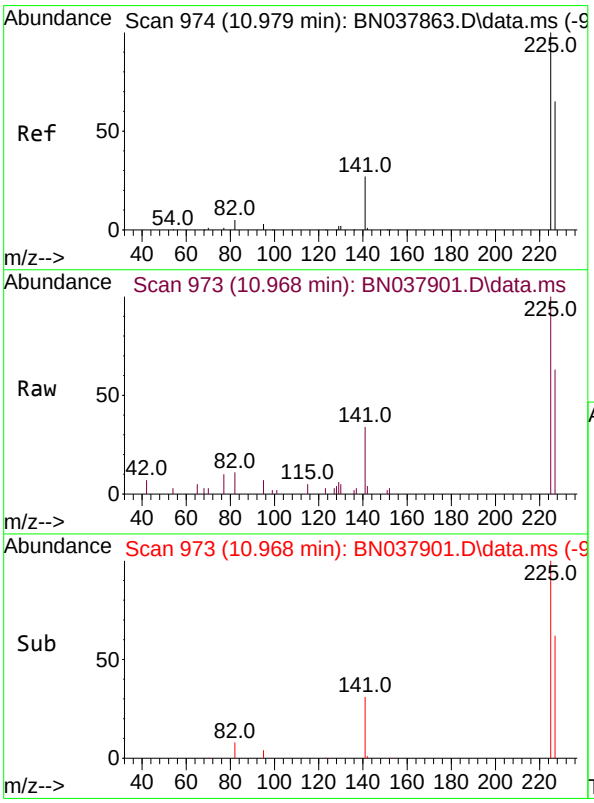
#9
Naphthalene
Concen: 0.397 ng
RT: 10.669 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 23529

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.2	13.8
127	13.2	11.0	16.6

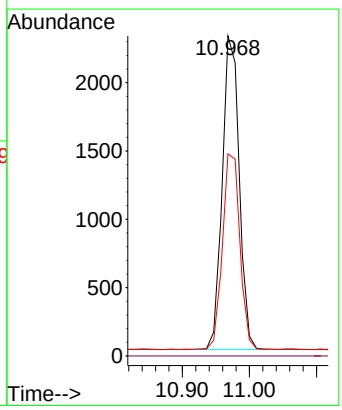


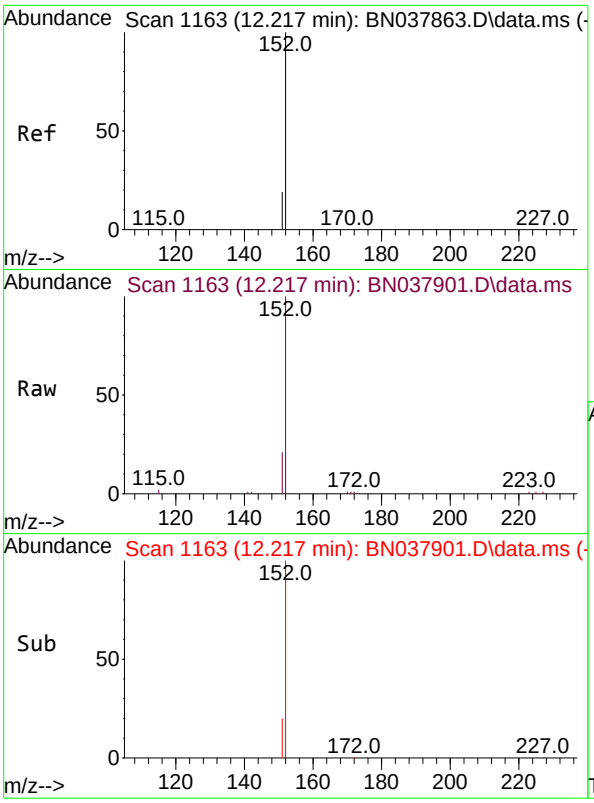


#10
Hexachlorobutadiene
Concen: 0.398 ng
RT: 10.968 min Scan# 973
Delta R.T. -0.011 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:225 Resp: 4020

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	51.4	77.2



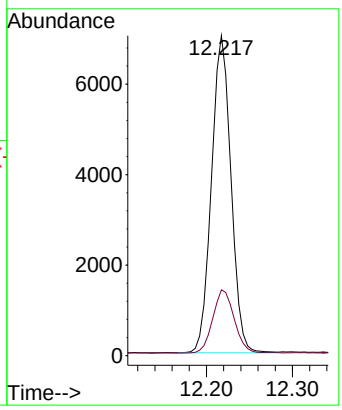


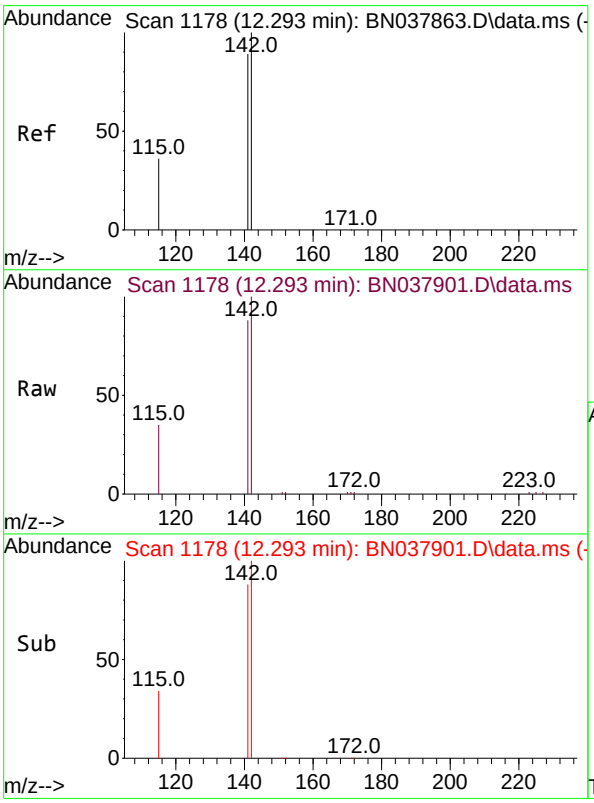
#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 12.217 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 11067

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.4	26.2

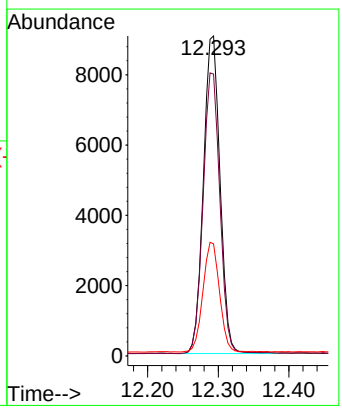


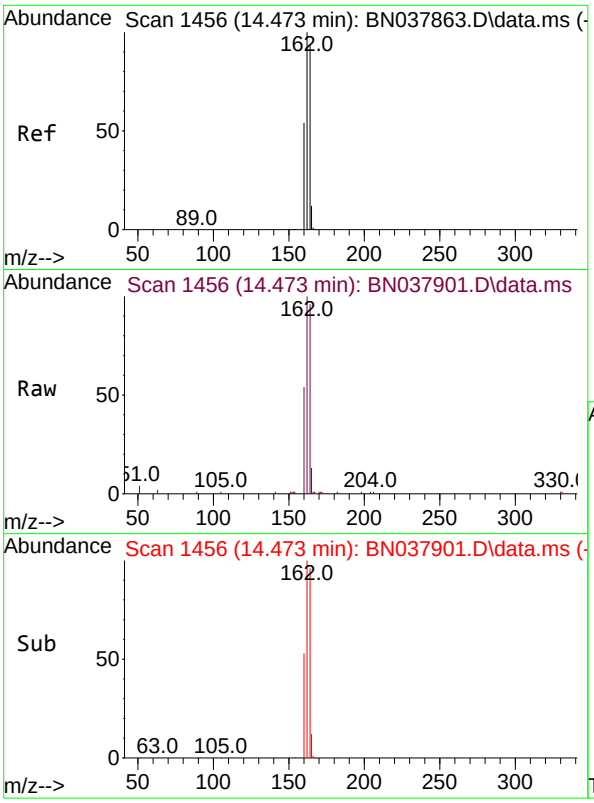


#12
2-Methylnaphthalene
Concen: 0.382 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:142 Resp: 14799

Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.2	106.8
115	35.0	29.7	44.5



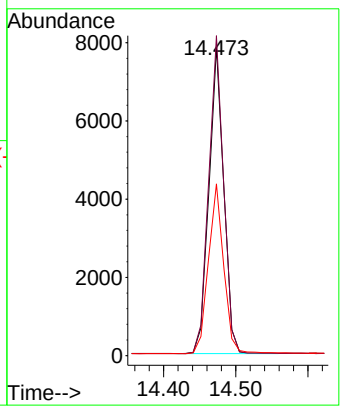


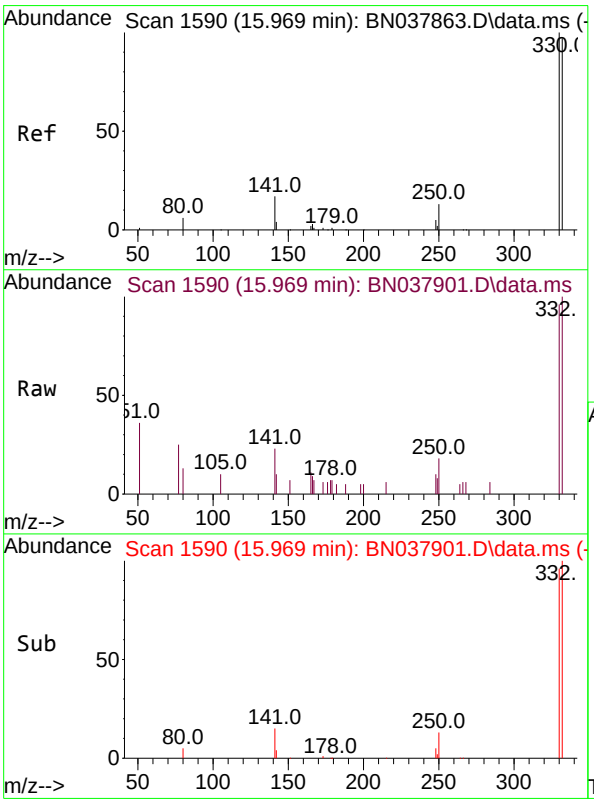
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 11178

Ion	Ratio	Lower	Upper
164	100		
162	103.8	84.8	127.2
160	55.8	46.1	69.1

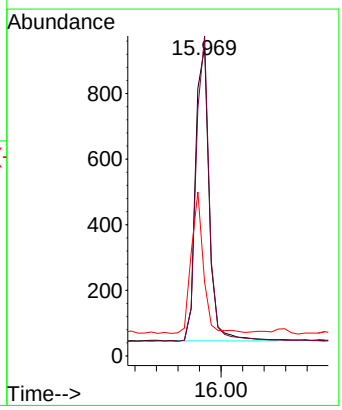


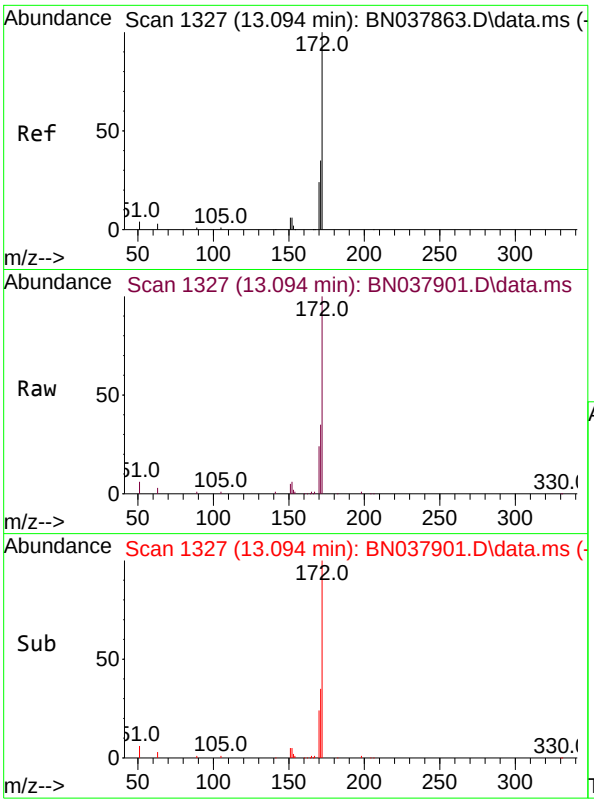


#14
2,4,6-Tribromophenol
Concen: 0.374 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:330 Resp: 1585

Ion	Ratio	Lower	Upper
330	100		
332	99.7	77.2	115.8
141	42.8	37.2	55.8



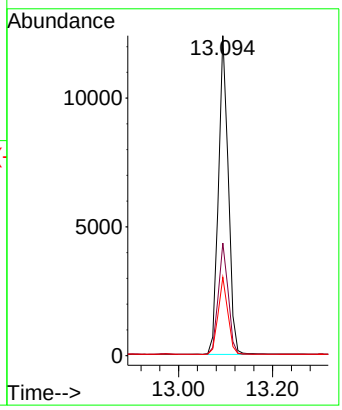


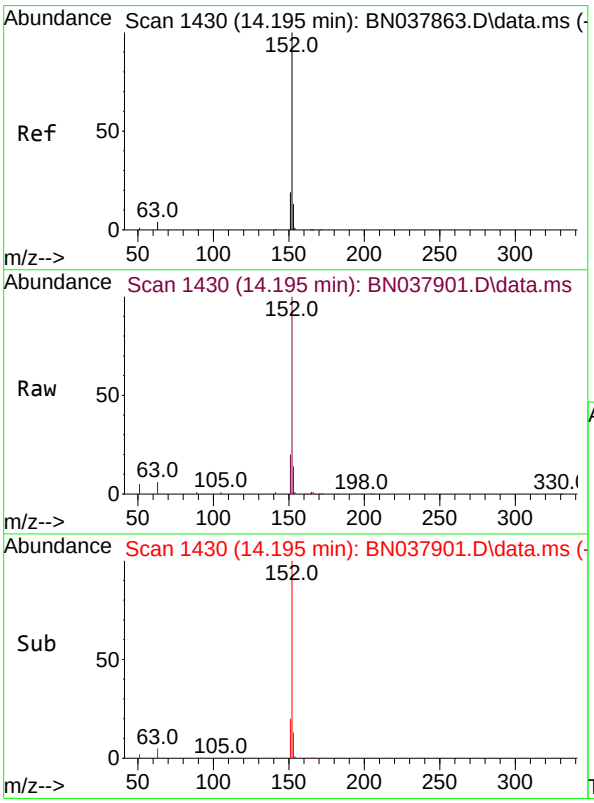
#15
2-Fluorobiphenyl
Concen: 0.373 ng
RT: 13.094 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 17074

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	43.0
170	24.5	19.7	29.5

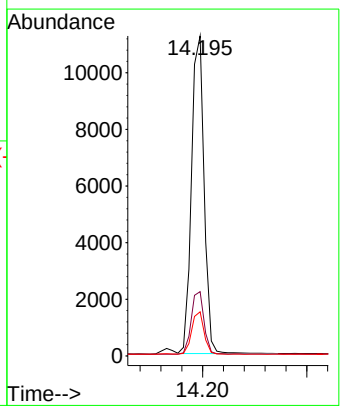


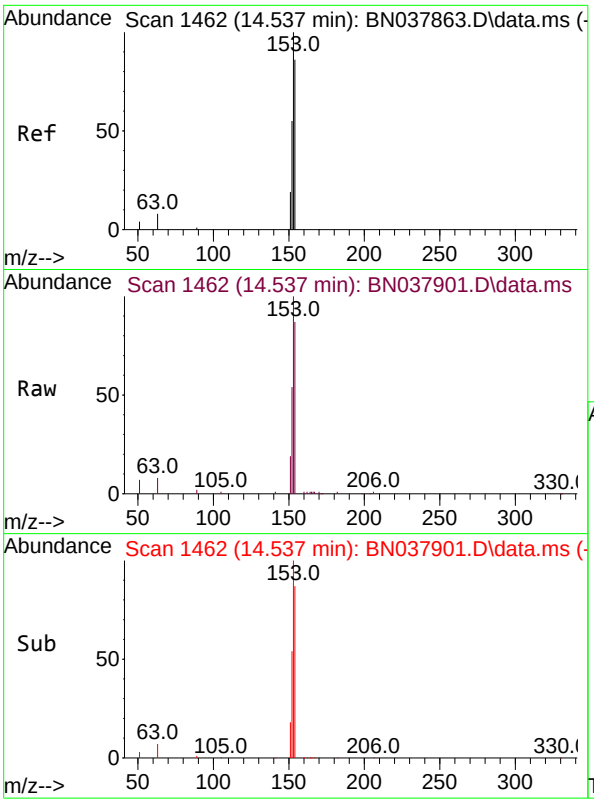


#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:152 Resp: 18759

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	13.1	10.5	15.7



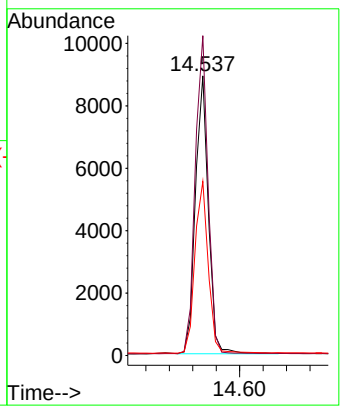


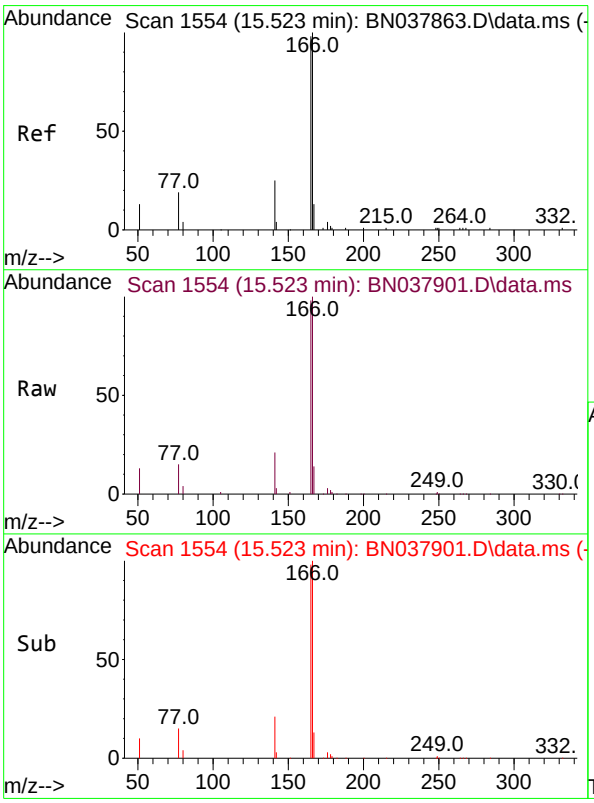
#17
Acenaphthene
Concen: 0.376 ng
RT: 14.537 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 13596

Ion	Ratio	Lower	Upper
154	100		
153	113.7	90.5	135.7
152	64.0	51.8	77.8

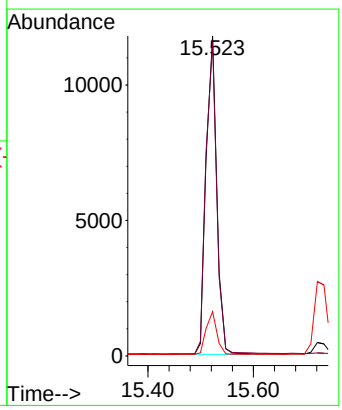


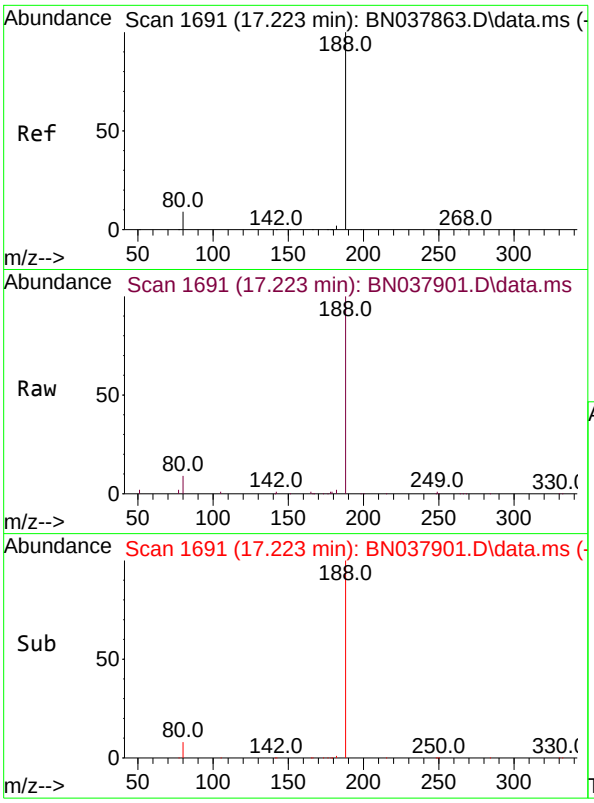


#18
Fluorene
Concen: 0.371 ng
RT: 15.523 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:166 Resp: 16239

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.0	118.4
167	13.1	10.6	16.0



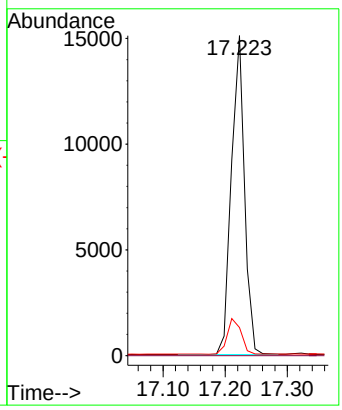


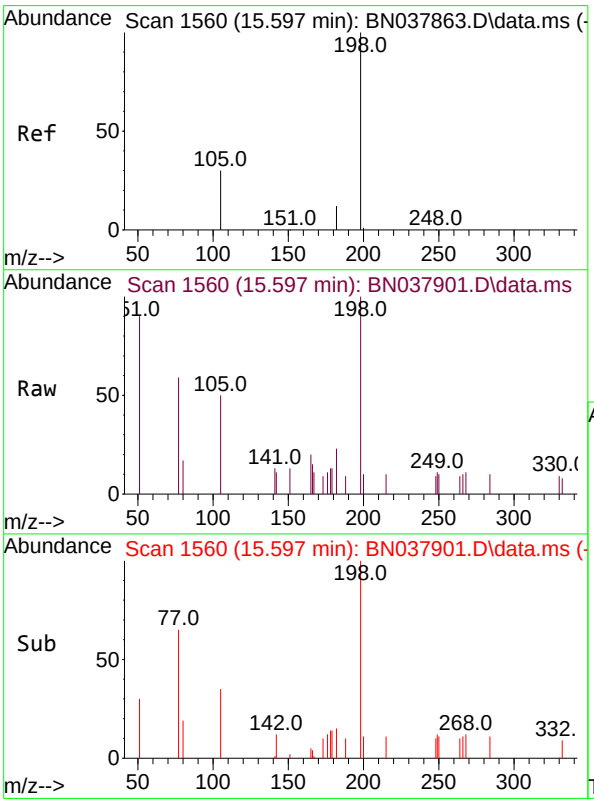
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 22063

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.8	7.6	11.4

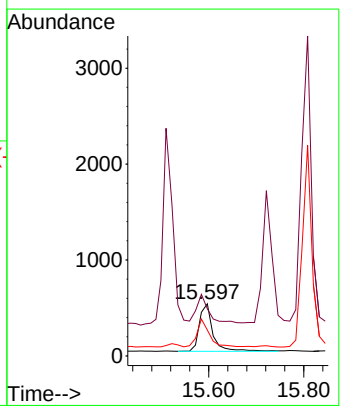


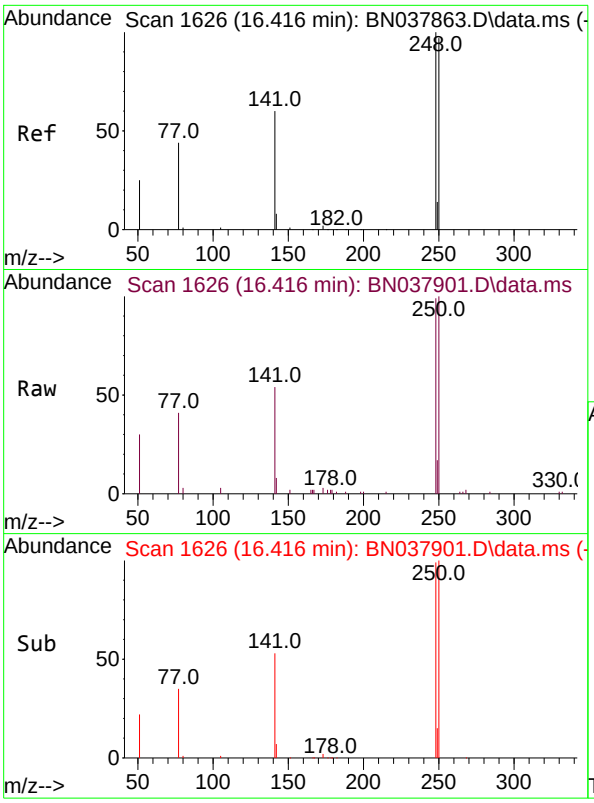


#20
4,6-Dinitro-2-methylphenol
Concen: 0.410 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:198 Resp: 976

Ion	Ratio	Lower	Upper
198	100		
51	90.3	59.1	88.7#
105	49.6	41.3	61.9



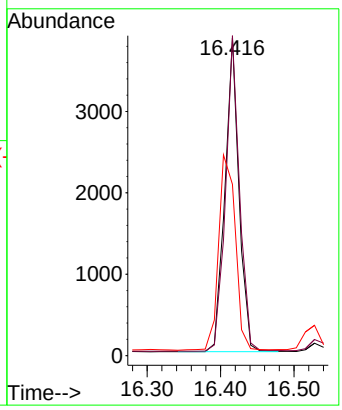


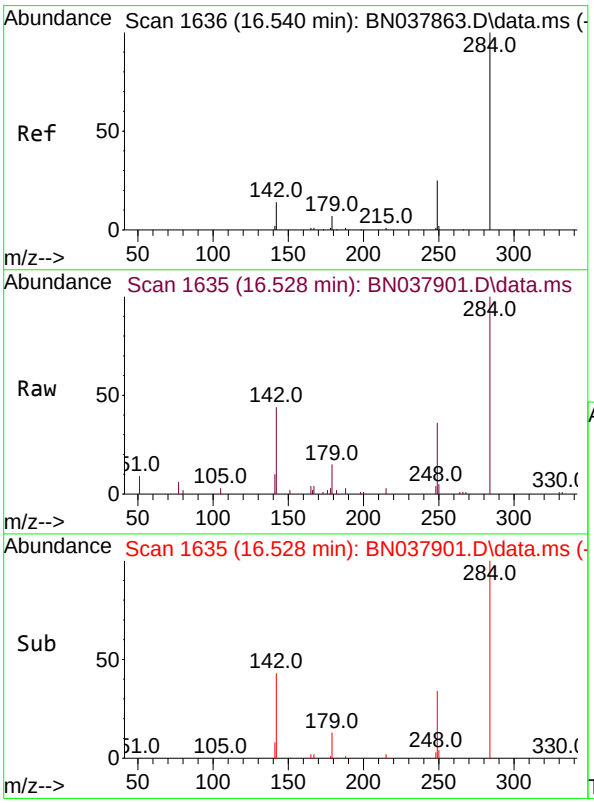
#21
4-Bromophenyl-phenylether
Concen: 0.359 ng
RT: 16.416 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 5160

Ion	Ratio	Lower	Upper
248	100		
250	100.8	77.6	116.4
141	53.9	48.8	73.2

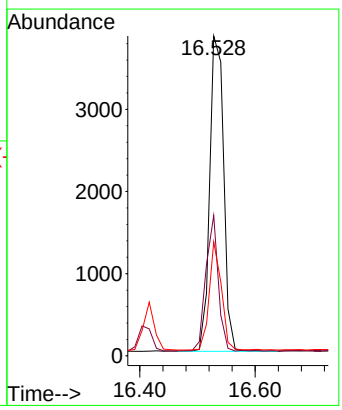


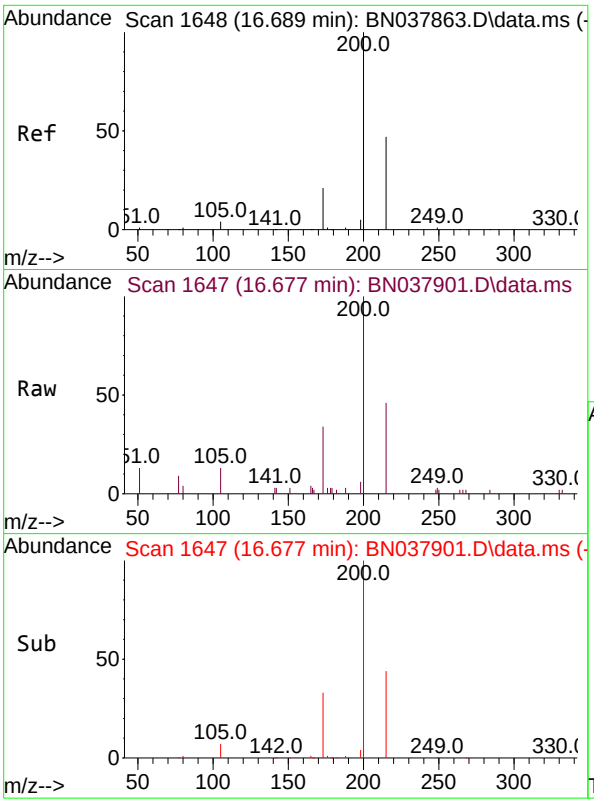


#22
Hexachlorobenzene
Concen: 0.371 ng
RT: 16.528 min Scan# 1635
Delta R.T. -0.012 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:284 Resp: 6462

Ion	Ratio	Lower	Upper
284	100		
142	38.1	30.9	46.3
249	30.0	23.9	35.9



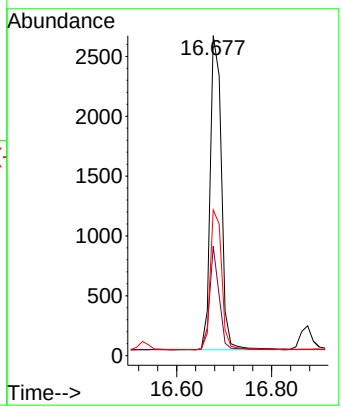


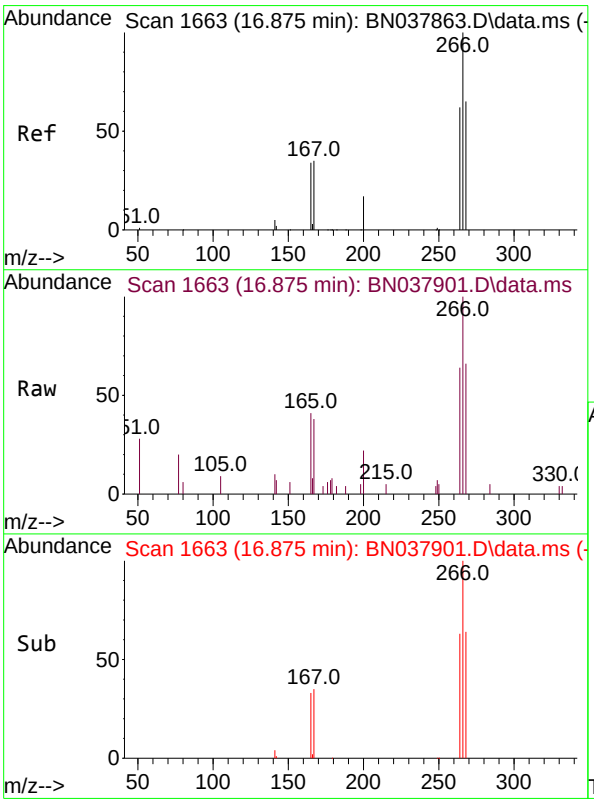
#23
Atrazine
Concen: 0.390 ng
RT: 16.677 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 4270

Ion	Ratio	Lower	Upper
200	100		
173	34.2	18.3	27.5#
215	45.5	38.6	58.0

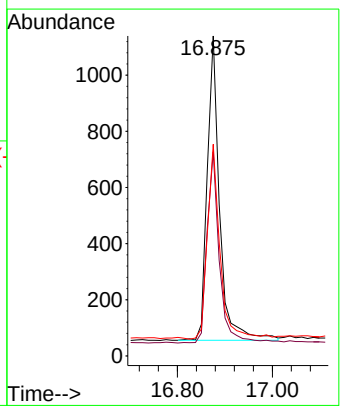


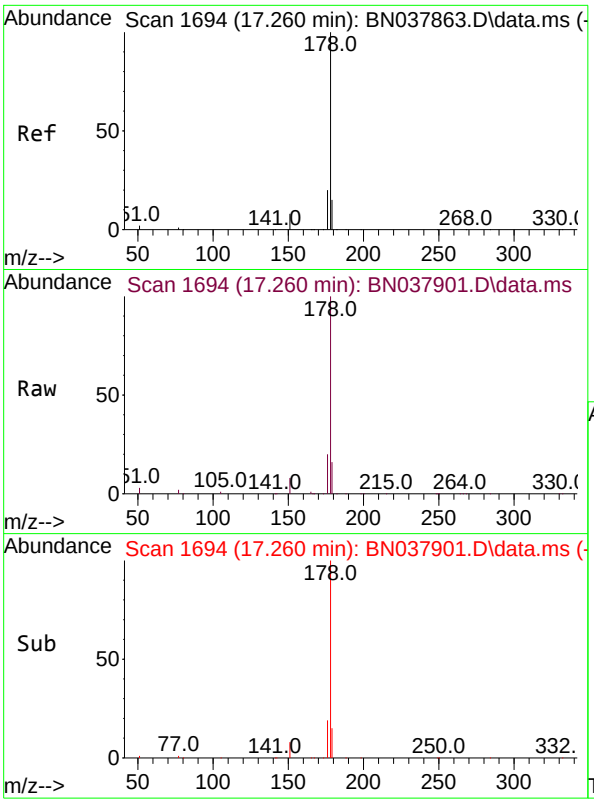


#24
Pentachlorophenol
Concen: 0.326 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:266 Resp: 1948

Ion	Ratio	Lower	Upper
266	100		
264	63.4	50.9	76.3
268	65.7	54.3	81.5



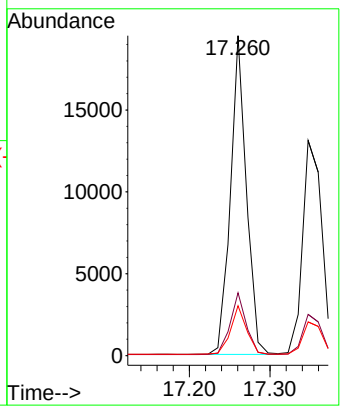


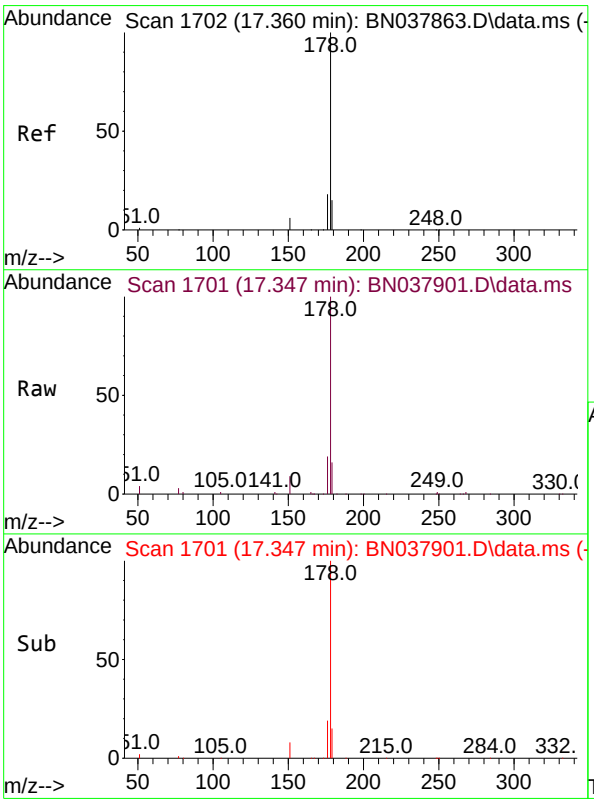
#25
Phenanthrene
Concen: 0.368 ng
RT: 17.260 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 26713

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.7	23.5
179	15.4	12.3	18.5

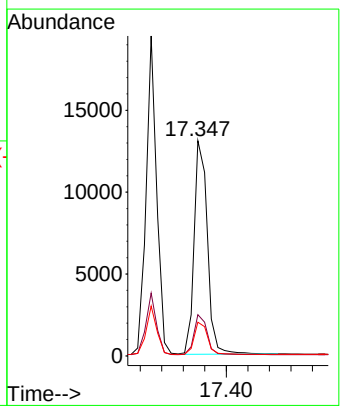


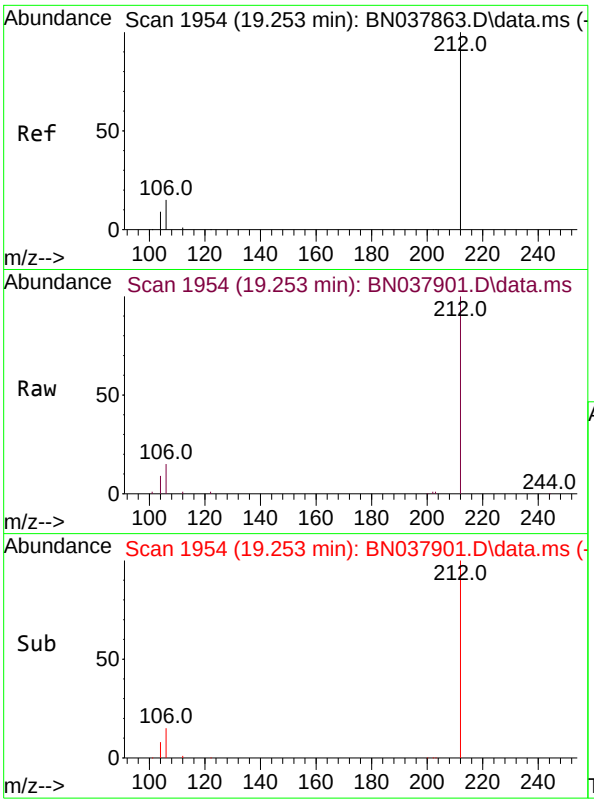


#26
Anthracene
Concen: 0.353 ng
RT: 17.347 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:178 Resp: 22252

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.4
179	15.5	12.3	18.5



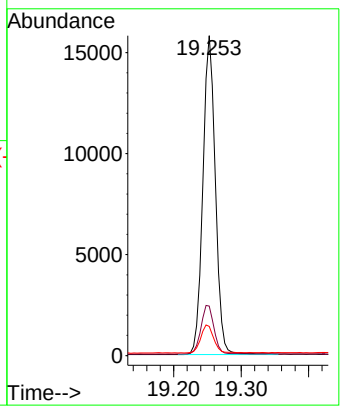


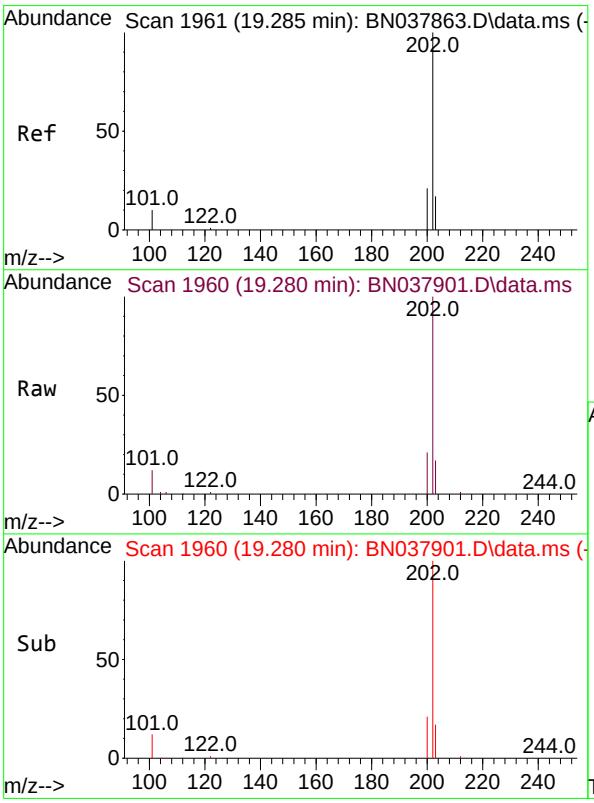
#27
Fluoranthene-d10
Concen: 0.366 ng
RT: 19.253 min Scan# 19
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 20296

Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.6	19.0
104	9.1	7.4	11.0

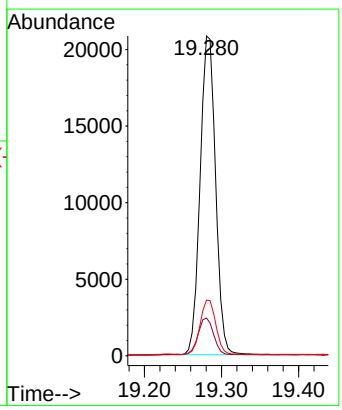


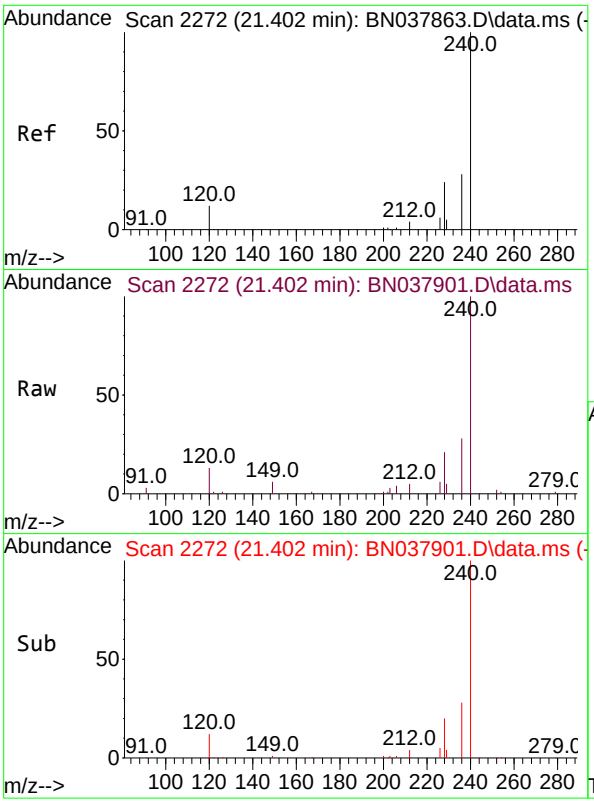


#28
Fluoranthene
Concen: 0.362 ng
RT: 19.280 min Scan# 1960
Delta R.T. -0.005 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:202 Resp: 28968

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.3	13.9
203	17.2	13.6	20.4



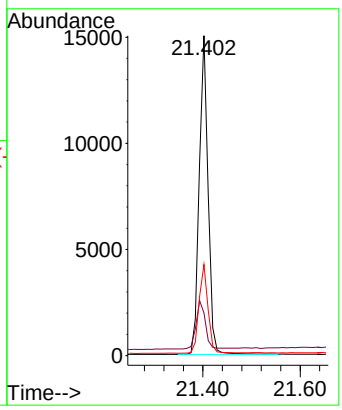


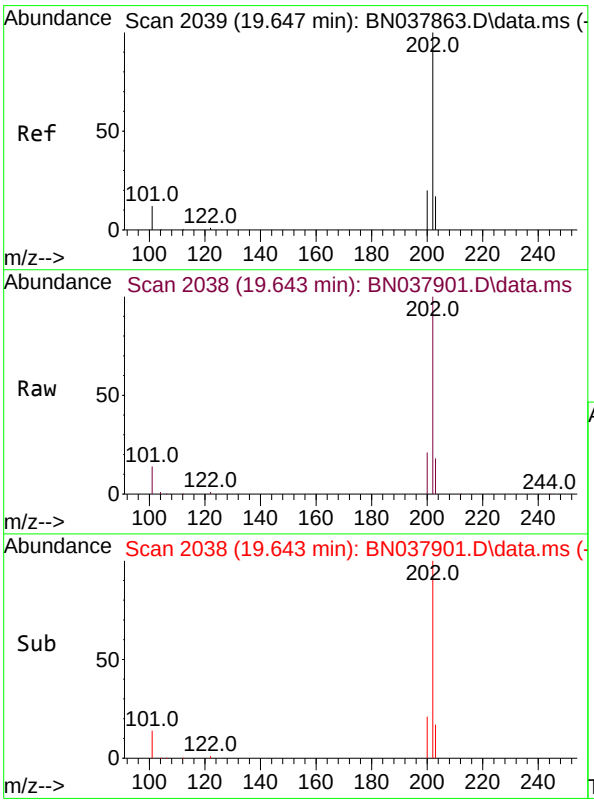
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 18965

Ion	Ratio	Lower	Upper
240	100		
120	13.3	11.4	17.2
236	28.5	23.0	34.6

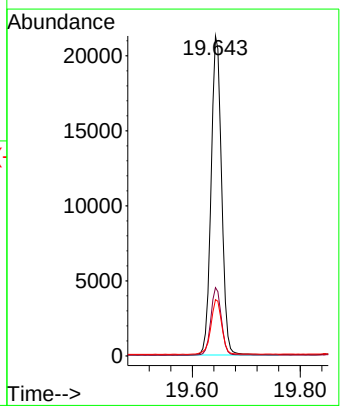


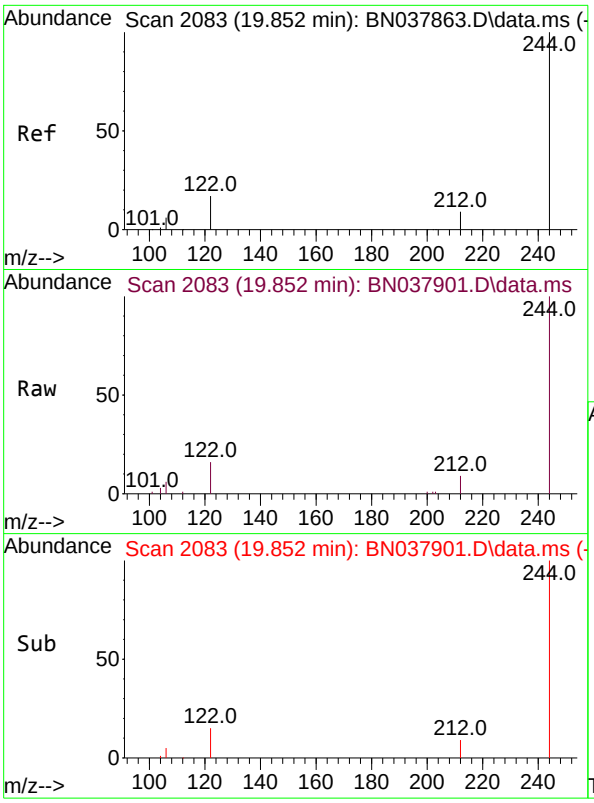


#30
Pyrene
Concen: 0.384 ng
RT: 19.643 min Scan# 2038
Delta R.T. -0.005 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:202 Resp: 28732

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.7	25.1
203	17.9	14.2	21.4



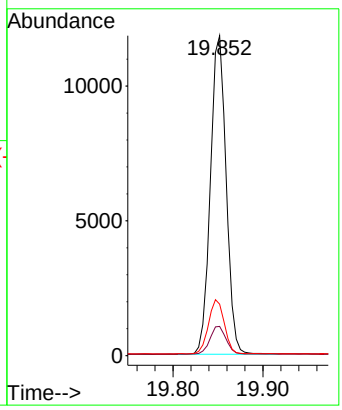


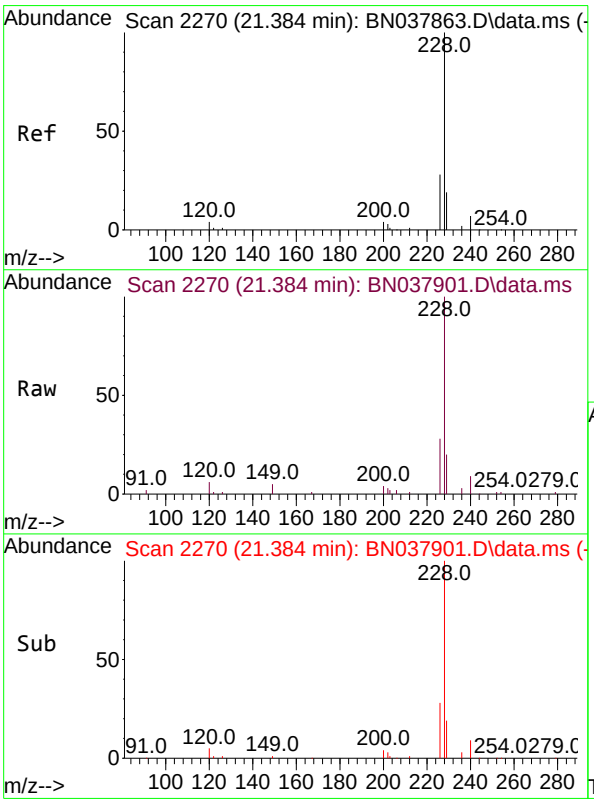
#31
Terphenyl-d14
Concen: 0.382 ng
RT: 19.852 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 14438

Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.6	11.4
122	16.1	13.9	20.9

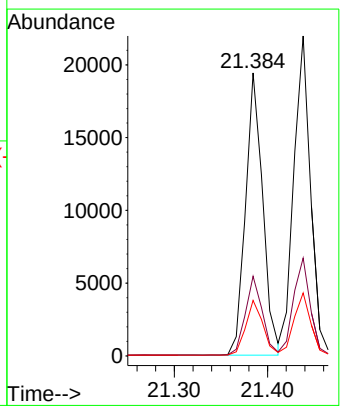


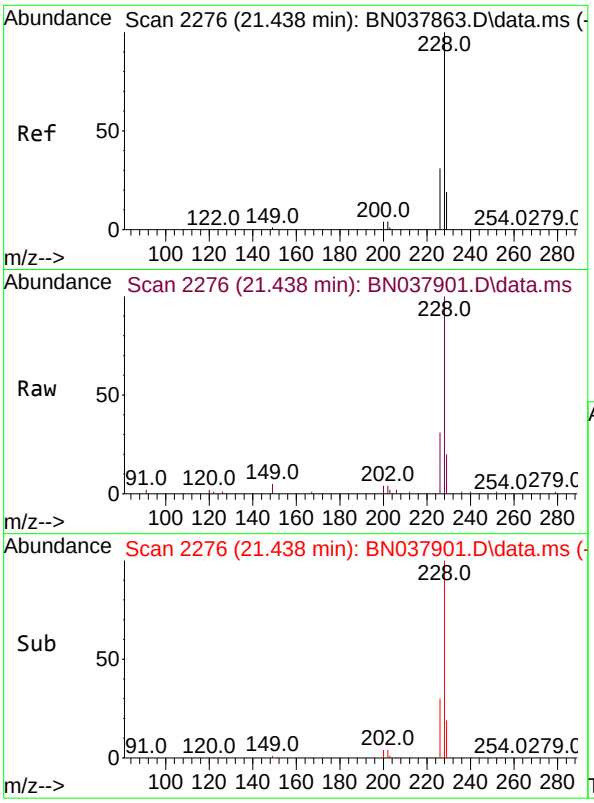


#32
Benzo(a)anthracene
Concen: 0.374 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:228 Resp: 24796

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.6	33.8
229	19.6	15.6	23.4



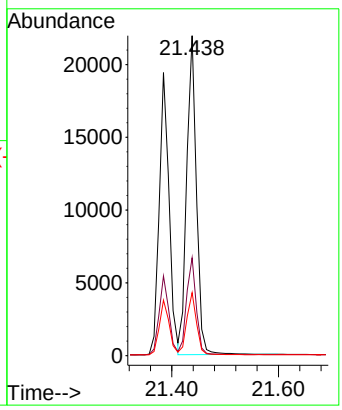


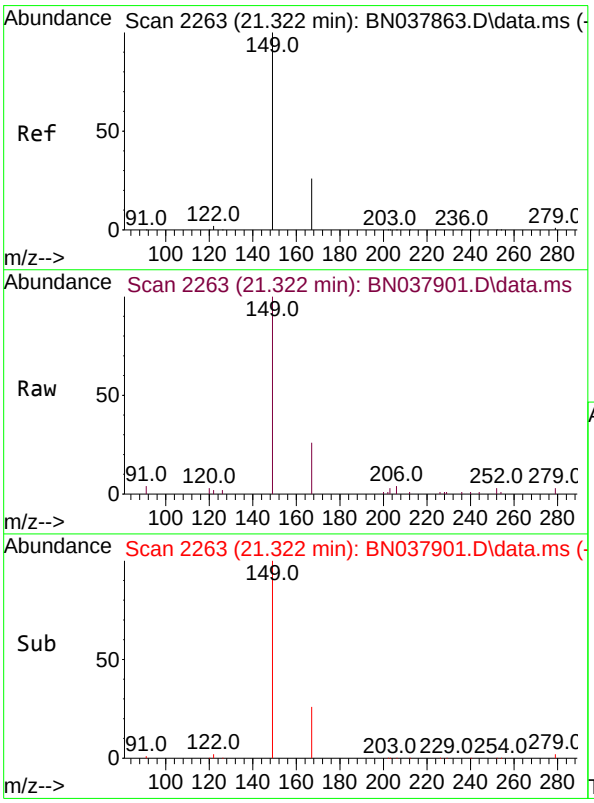
#33
Chrysene
Concen: 0.389 ng
RT: 21.438 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 27866

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.7	15.6	23.4

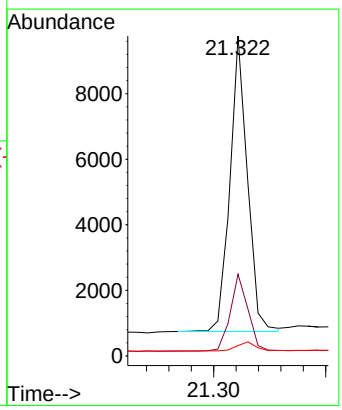


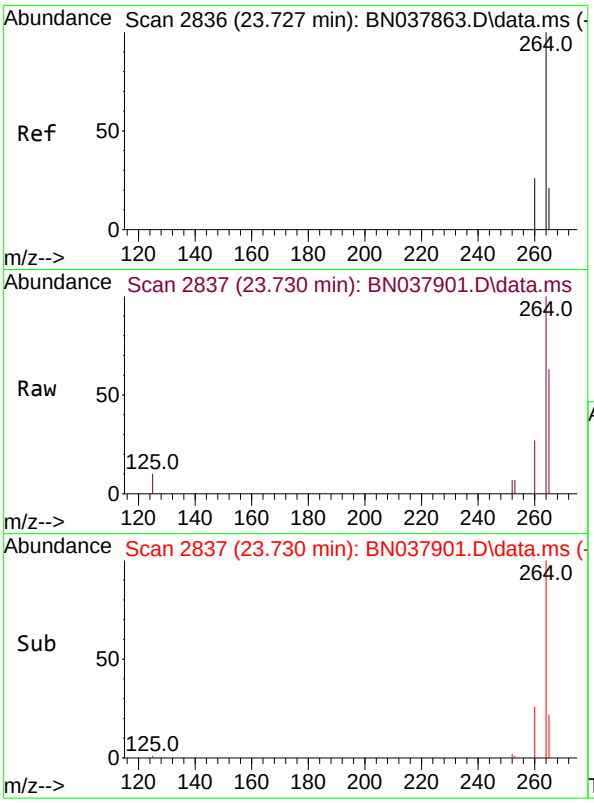


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.372 ng
RT: 21.322 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:149 Resp: 9764

Ion	Ratio	Lower	Upper
149	100		
167	26.5	20.4	30.6
279	3.5	2.4	3.6



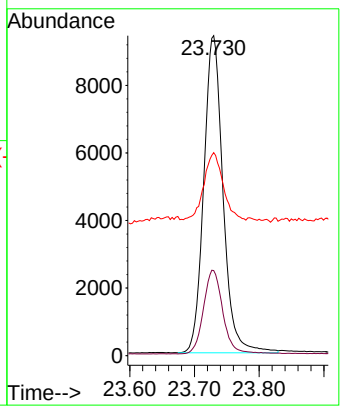


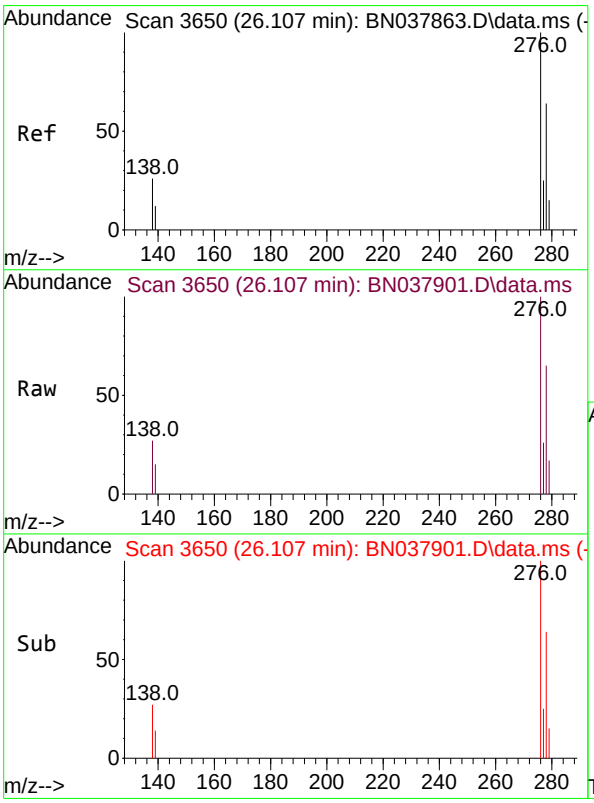
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.730 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 19432

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.5	32.3
265	63.4	53.8	80.6

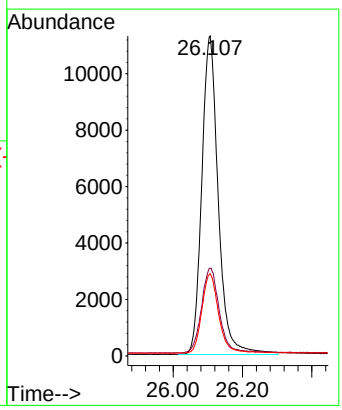


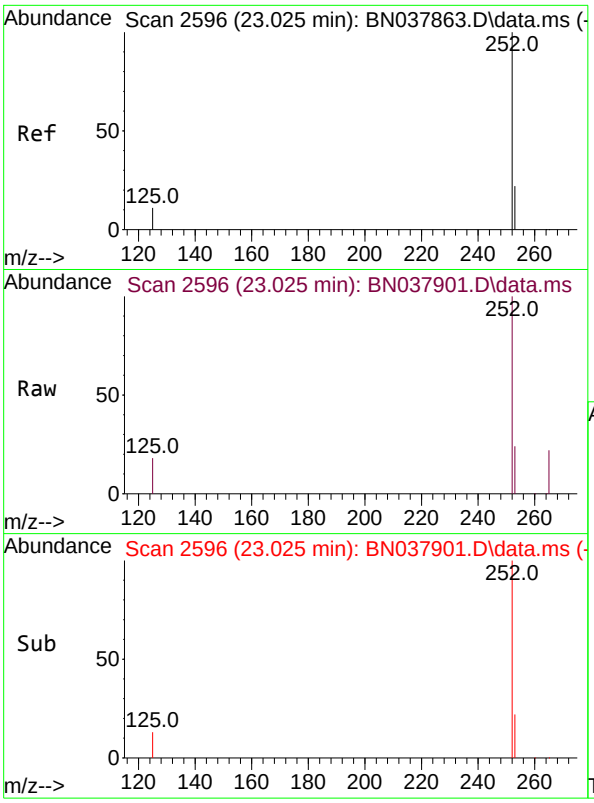


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.420 ng
RT: 26.107 min Scan# 3650
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:276 Resp: 37256

Ion	Ratio	Lower	Upper
276	100		
138	28.3	21.4	32.0
277	25.2	20.3	30.5



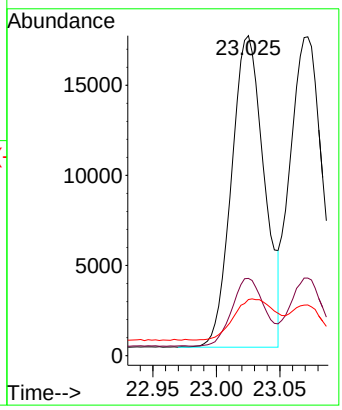


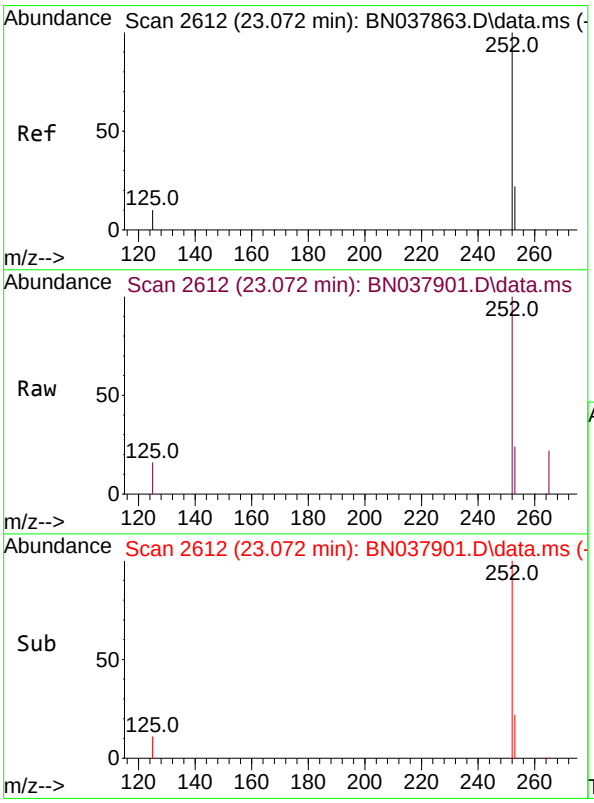
#37
Benzo(b)fluoranthene
Concen: 0.369 ng
RT: 23.025 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 30958

Ion	Ratio	Lower	Upper
252	100		
253	24.1	19.4	29.0
125	17.5	13.0	19.4

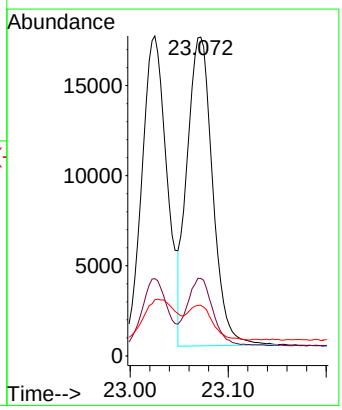


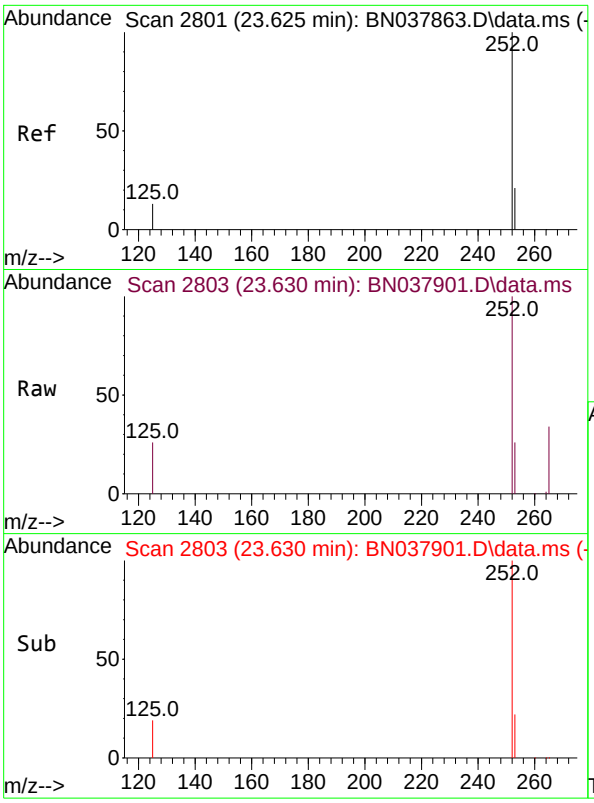


#38
Benzo(k)fluoranthene
Concen: 0.367 ng
RT: 23.072 min Scan# 2612
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:252 Resp: 30978

Ion	Ratio	Lower	Upper
252	100		
253	24.3	19.5	29.3
125	15.9	13.0	19.4



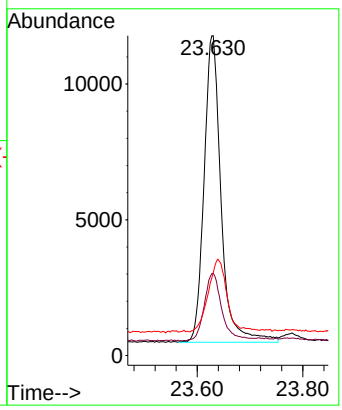


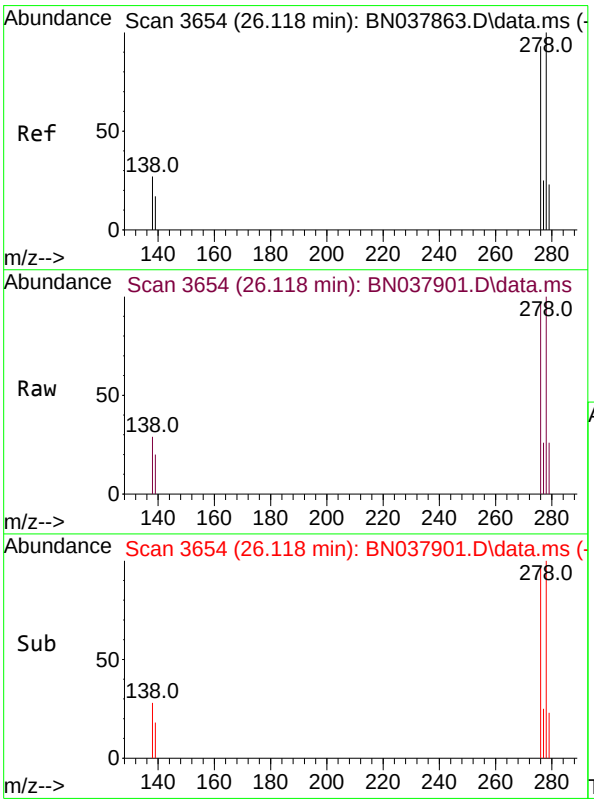
#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 23.630 min Scan# 28
Delta R.T. 0.006 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 25319

Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.6	30.8
125	25.9	16.7	25.1#

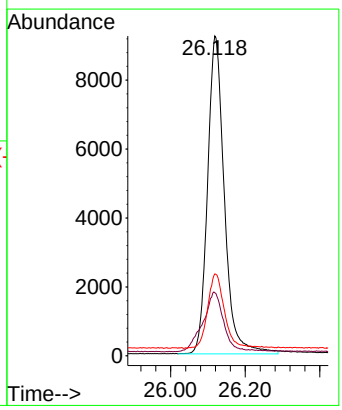


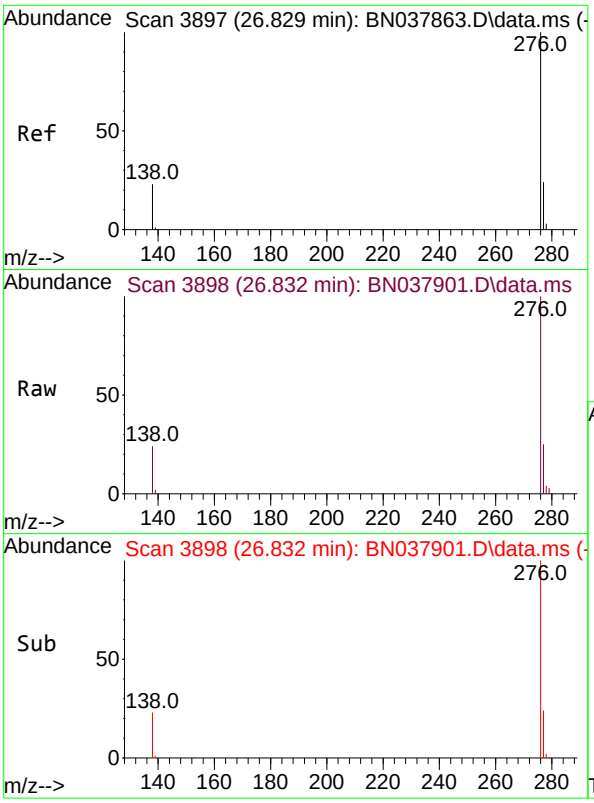


#40
Dibenzo(a,h)anthracene
Concen: 0.417 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:278 Resp: 28899

Ion	Ratio	Lower	Upper
278	100		
139	19.7	15.4	23.2
279	25.6	20.8	31.2



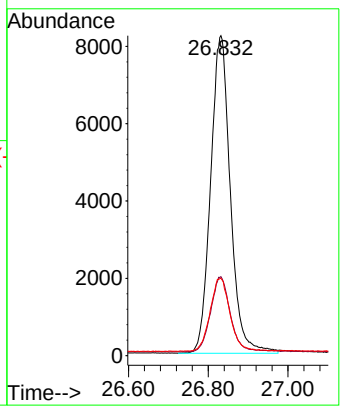


#41
Benzo(g,h,i)perylene
Concen: 0.388 ng
RT: 26.832 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 28258

Ion	Ratio	Lower	Upper
276	100		
277	24.7	20.2	30.4
138	24.1	19.8	29.8



Sample Results: **BN037901.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037901.D
Acq On : 25 Sep 2025 22:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 25 23:51:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	135	0.00
2		1,4-Dioxane	0.400	0.409	-2.2	136	0.00
3		n-Nitrosodimethylamine	0.400	0.363	9.3	128	0.00
4	S	2-Fluorophenol	0.400	0.430	-7.5	154	0.00
5	S	Phenol-d6	0.400	0.427	-6.7	154	0.00
6		bis(2-Chloroethyl)ether	0.400	0.407	-1.7	141	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	136	0.00
8	S	Nitrobenzene-d5	0.400	0.411	-2.7	148	0.00
9		Naphthalene	0.400	0.397	0.8	142	0.00
10		Hexachlorobutadiene	0.400	0.398	0.5	140	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.370	7.5	140	0.00
12		2-Methylnaphthalene	0.400	0.382	4.5	140	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	136	0.00
14	S	2,4,6-Tribromophenol	0.400	0.374	6.5	142	0.00
15	S	2-Fluorobiphenyl	0.400	0.373	6.8	133	0.00
16		Acenaphthylene	0.400	0.370	7.5	137	0.00
17		Acenaphthene	0.400	0.376	6.0	138	0.00
18		Fluorene	0.400	0.371	7.3	136	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	138	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.410	-2.5	140	0.00
21		4-Bromophenyl-phenylether	0.400	0.359	10.3	132	0.00
22		Hexachlorobenzene	0.400	0.371	7.3	133	-0.01
23		Atrazine	0.400	0.390	2.5	156	-0.01
24		Pentachlorophenol	0.400	0.326	18.5	133	0.00
25		Phenanthrene	0.400	0.368	8.0	136	0.00
26		Anthracene	0.400	0.353	11.8	136	-0.01
27	SURR	Fluoranthene-d10	0.400	0.366	8.5	144	0.00
28		Fluoranthene	0.400	0.362	9.5	139	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	140	0.00
30		Pyrene	0.400	0.384	4.0	139	0.00
31	S	Terphenyl-d14	0.400	0.382	4.5	141	0.00
32		Benzo(a)anthracene	0.400	0.374	6.5	141	0.00
33		Chrysene	0.400	0.389	2.8	140	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.372	7.0	148	0.00
35	I	Perylene-d12	0.400	0.400	0.0	154	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.420	-5.0	179	0.00
37		Benzo(b)fluoranthene	0.400	0.369	7.8	150	0.00
38		Benzo(k)fluoranthene	0.400	0.367	8.3	154	0.00
39	C	Benzo(a)pyrene	0.400	0.382	4.5	164	0.00
40		Dibenzo(a,h)anthracene	0.400	0.417	-4.2	176	0.00
41		Benzo(g,h,i)perylene	0.400	0.388	3.0	160	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN037901.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037901.D
Acq On : 25 Sep 2025 22:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 25 23:51:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	135	0.00
2		1,4-Dioxane	0.406	0.415	-2.2	136	0.00
3		n-Nitrosodimethylamine	0.540	0.491	9.1	128	0.00
4	S	2-Fluorophenol	0.913	0.982	-7.6	154#	0.00
5	S	Phenol-d6	1.199	1.281	-6.8	154#	0.00
6		bis(2-Chloroethyl)ether	1.113	1.134	-1.9	141	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	136	0.00
8	S	Nitrobenzene-d5	0.305	0.313	-2.6	148	0.00
9		Naphthalene	1.102	1.094	0.7	142	0.00
10		Hexachlorobutadiene	0.188	0.187	0.5	140	-0.01
11	SURR	2-Methylnaphthalene-d10	0.556	0.514	7.6	140	0.00
12		2-Methylnaphthalene	0.720	0.688	4.4	140	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	136	0.00
14	S	2,4,6-Tribromophenol	0.152	0.142	6.6	142	0.00
15	S	2-Fluorobiphenyl	1.638	1.527	6.8	133	0.00
16		Acenaphthylene	1.816	1.678	7.6	137	0.00
17		Acenaphthene	1.294	1.216	6.0	138	0.00
18		Fluorene	1.565	1.453	7.2	136	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	138	0.00
20		4,6-Dinitro-2-methylphenol	0.057	0.044	22.8	140	0.00
21		4-Bromophenyl-phenylether	0.261	0.234	10.3	132	0.00
22		Hexachlorobenzene	0.316	0.293	7.3	133	-0.01
23		Atrazine	0.199	0.194	2.5	156#	-0.01
24		Pentachlorophenol	0.108	0.088	18.5	133	0.00
25		Phenanthrene	1.316	1.211	8.0	136	0.00
26		Anthracene	1.142	1.009	11.6	136	-0.01
27	SURR	Fluoranthene-d10	1.006	0.920	8.5	144	0.00
28		Fluoranthene	1.450	1.313	9.4	139	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	140	0.00
30		Pyrene	1.579	1.515	4.1	139	0.00
31	S	Terphenyl-d14	0.797	0.761	4.5	141	0.00
32		Benzo(a)anthracene	1.398	1.307	6.5	141	0.00
33		Chrysene	1.512	1.469	2.8	140	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.515	6.9	148	0.00
35	I	Perylene-d12	1.000	1.000	0.0	154#	0.00
36		Indeno(1,2,3-cd)pyrene	1.828	1.917	-4.9	179#	0.00
37		Benzo(b)fluoranthene	1.725	1.593	7.7	150#	0.00
38		Benzo(k)fluoranthene	1.736	1.594	8.2	154#	0.00
39	C	Benzo(a)pyrene	1.364	1.303	4.5	164#	0.00
40		Dibenzo(a,h)anthracene	1.427	1.487	-4.2	176#	0.00
41		Benzo(g,h,i)perylene	1.499	1.454	3.0	160#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

QC SAMPLE DATA

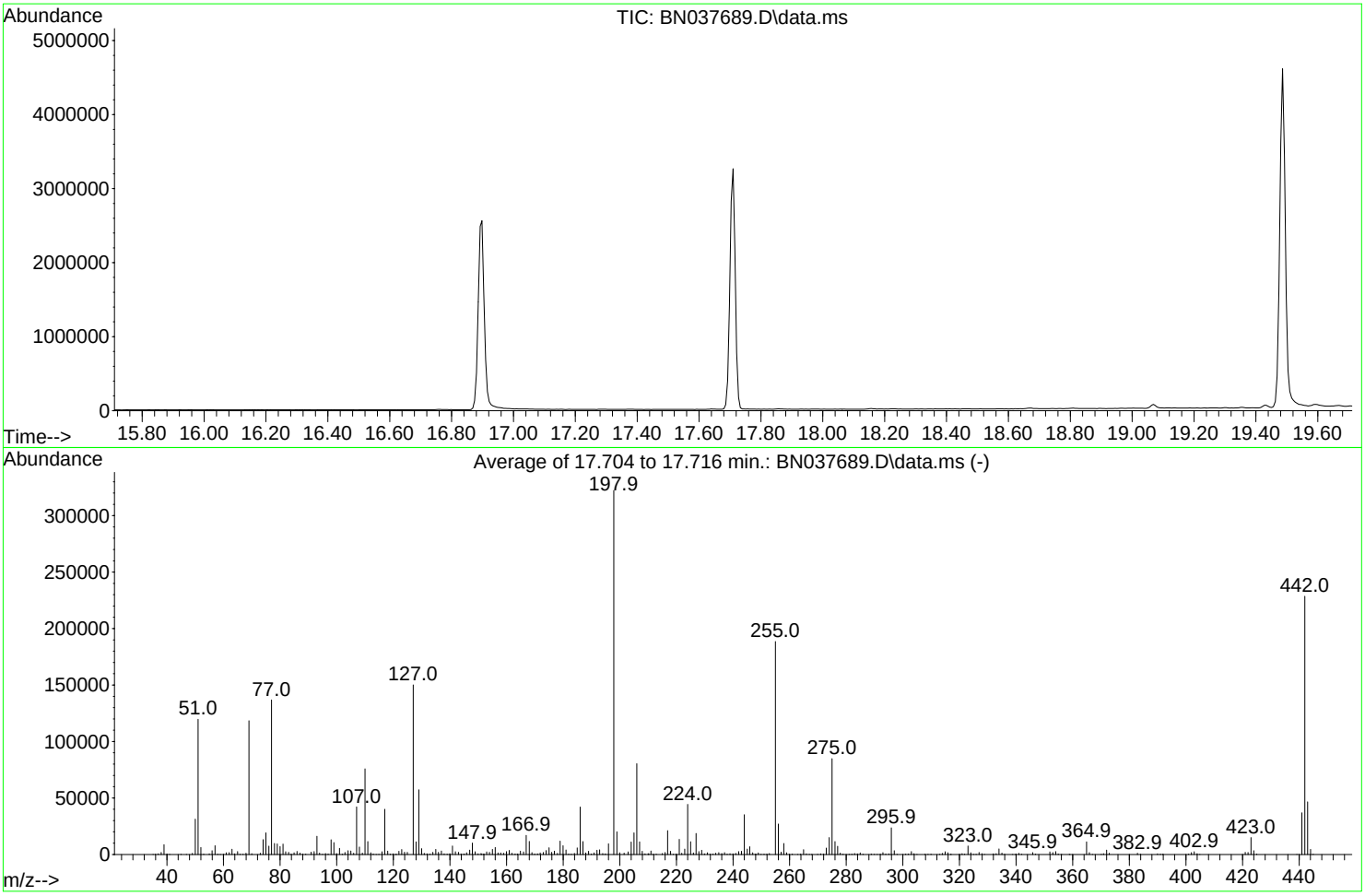
Sample Results: **BN037689.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037689.D
Acq On : 11 Sep 2025 07:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



AutoFind: Scans 2485, 2486, 2487; Background Corrected with Scan 2478

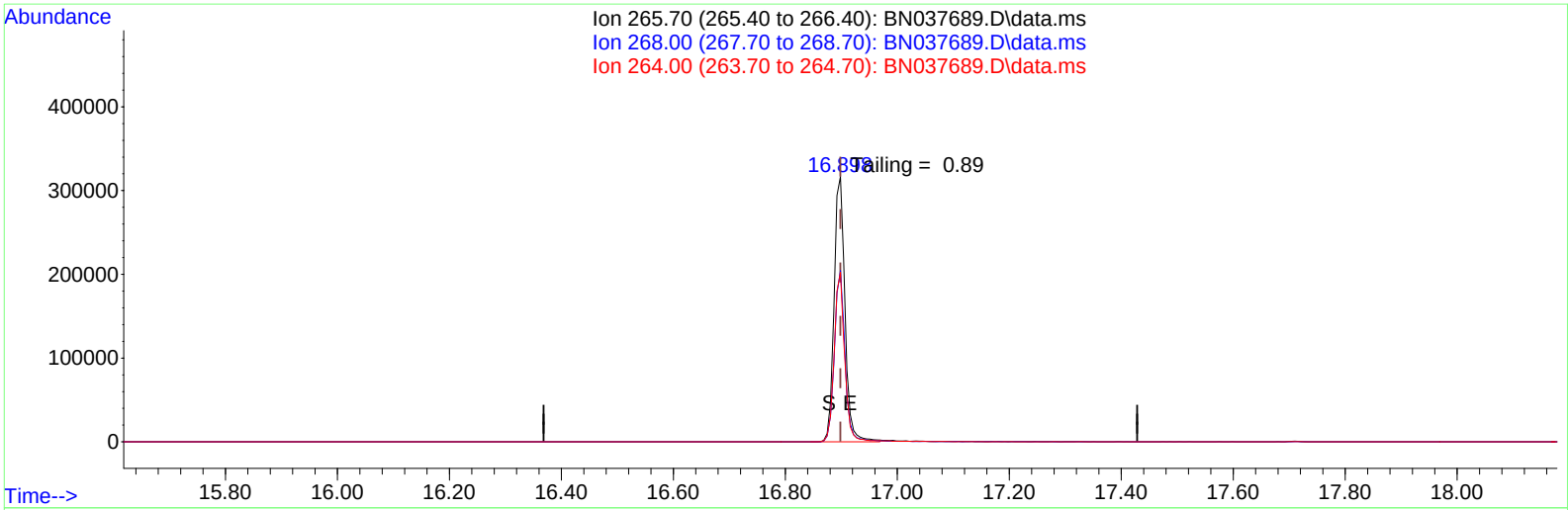
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.0	1148	PASS
69	69	100	100	100.0	118397	PASS
70	69	0.00	2	0.6	697	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	322261	PASS
199	198	5	9	6.2	20092	PASS
365	198	1	100	3.5	11183	PASS
441	443	0.01	150	79.2	36909	PASS
442	442	100	100	100.0	228651	PASS
443	442	15	24	20.4	46619	PASS

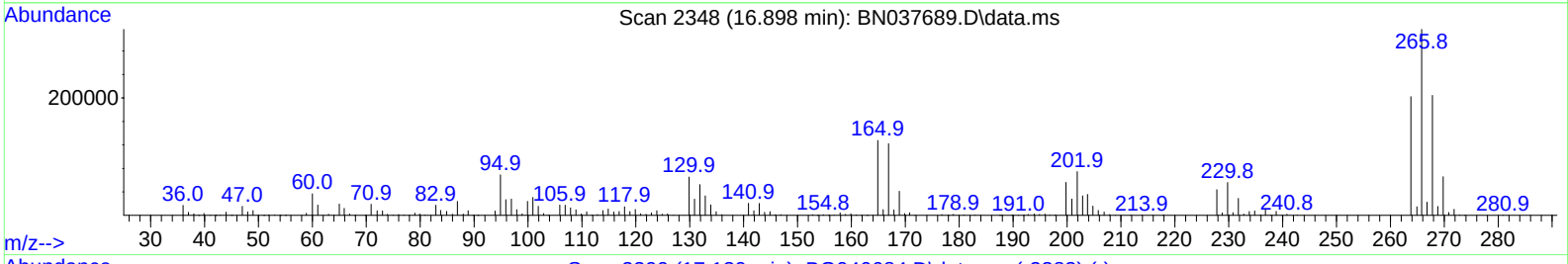
Sample Results: **BN037689.D**

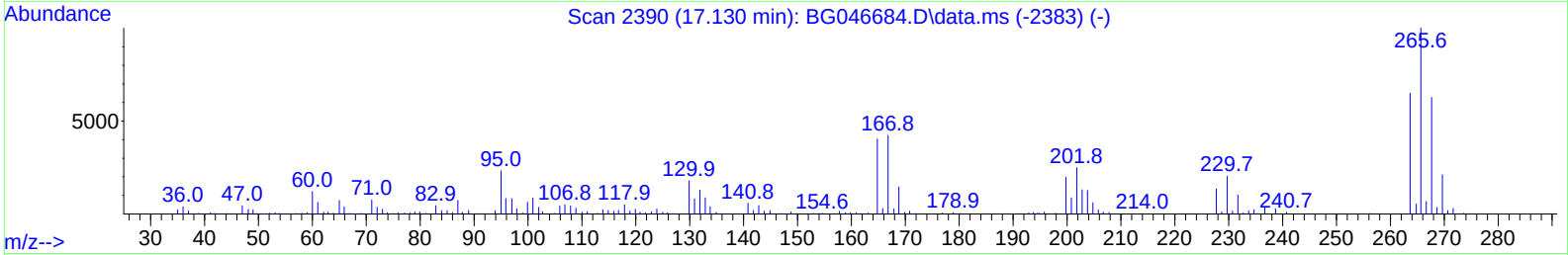
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037689.D
Acq On : 11 Sep 2025 07:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 11 13:15:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 13:14:53 2025
Response via : Initial Calibration







TIC: BN037689.D\data.ms

(70) Pentachlorophenol (C)

16.898min (0.000) 277.63 ng

response 430126

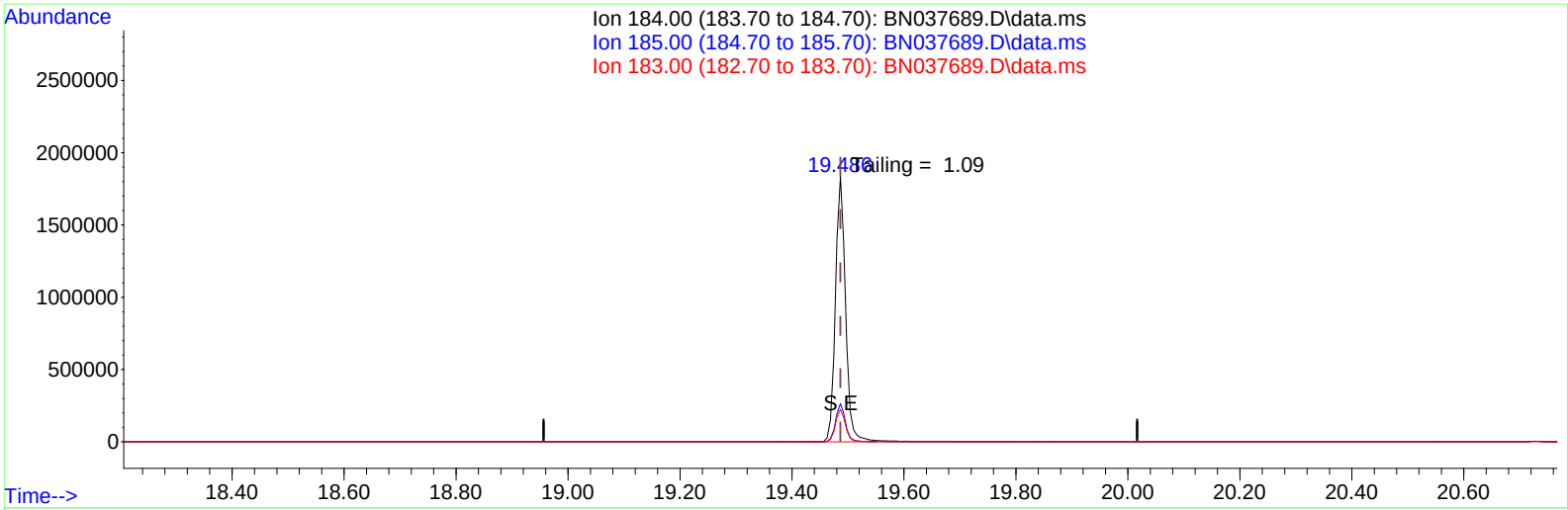
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	64.50	64.54
264.00	63.90	63.87
0.00	0.00	0.00

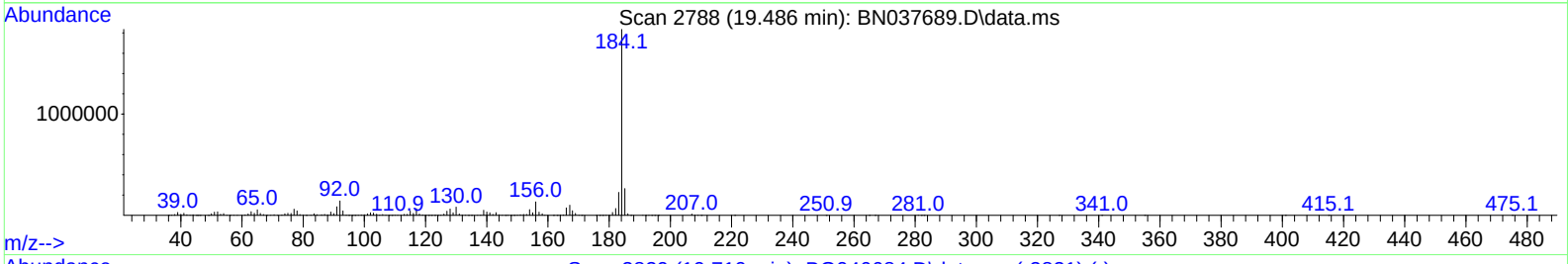
Sample Results: **BN037689.D**

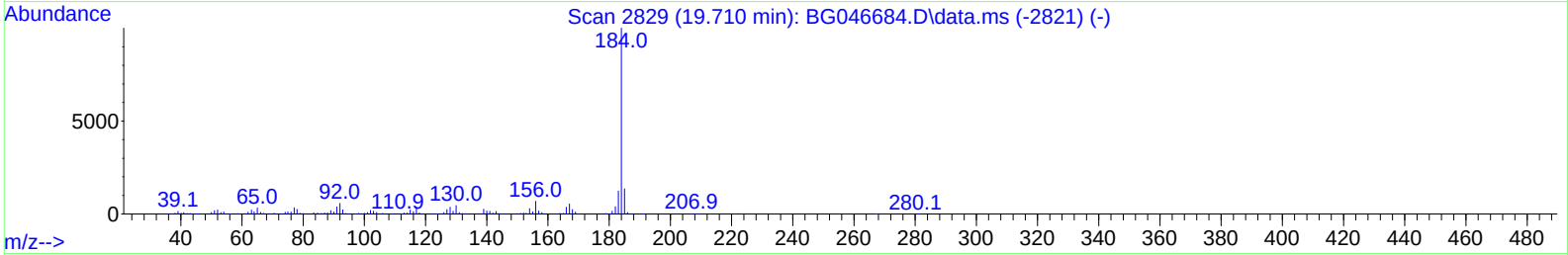
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037689.D
Acq On : 11 Sep 2025 07:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 11 13:15:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 13:14:53 2025
Response via : Initial Calibration







TIC: BN037689.D\data.ms

(77) Benzidine

19.486min (0.000) 64237.37 ng

response 2281946

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	14.43
183.00	12.30	12.32
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/11/2025	BNA_N	BN037689.D
Compound Name	**Response**	**Retention Time**
DDT	1069016	20.727
DDD	7982	20.286
DDE	769	19.78
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
8751	1077767	0.81

Instrument :
BNA_N
ClientSampleId :
DFTPP

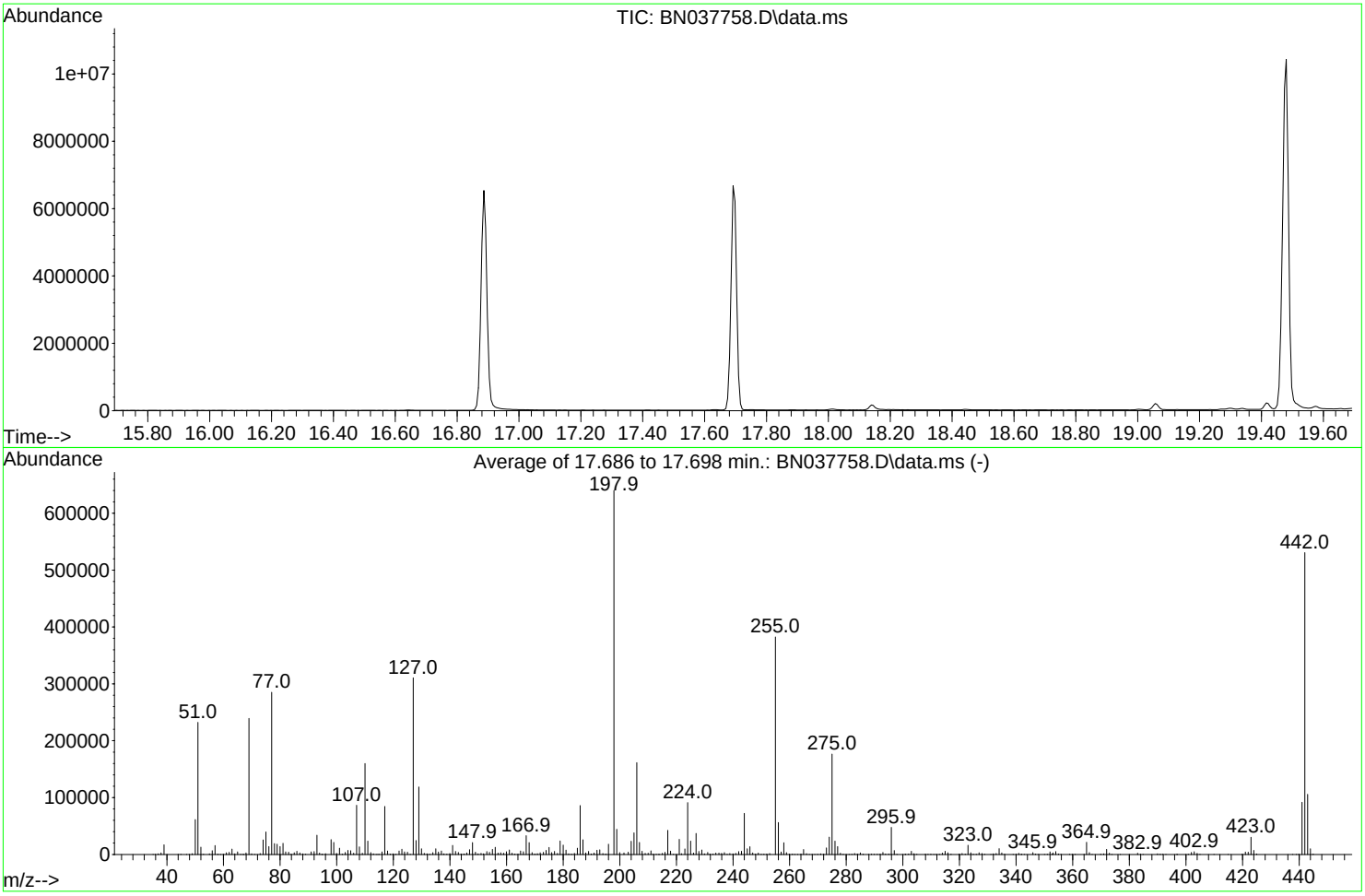
Sample Results: **BN037758.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037758.D
Acq On : 18 Sep 2025 02:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

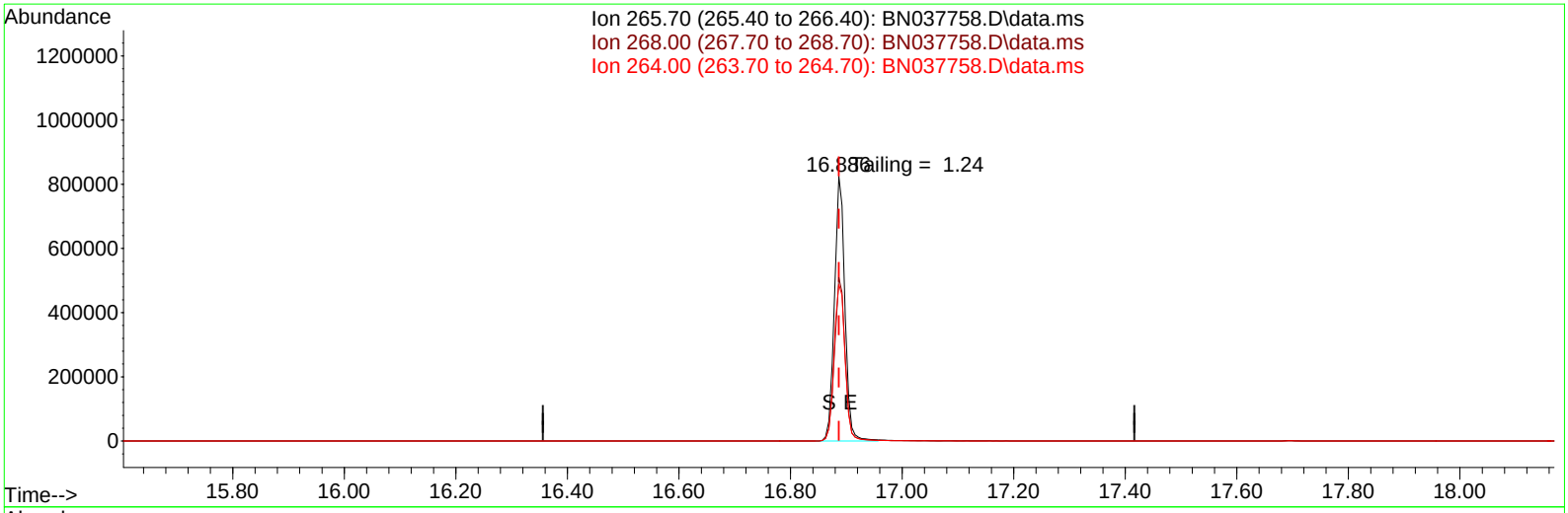
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.1	2651	PASS
69	69	100	100	100.0	239192	PASS
70	69	0.00	2	0.5	1177	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	640043	PASS
199	198	5	9	6.9	44243	PASS
365	198	1	100	3.3	21358	PASS
441	443	0.01	150	86.6	91685	PASS
442	442	100	100	100.0	530709	PASS
443	442	15	24	19.9	105811	PASS

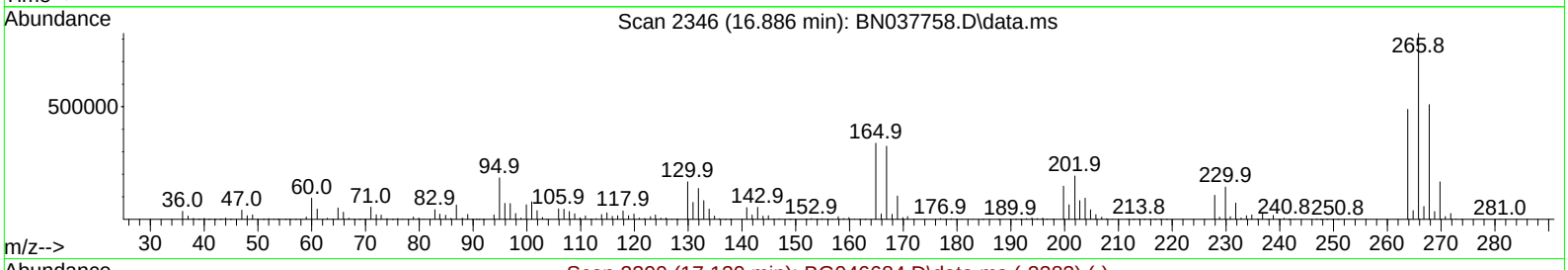
Sample Results: **BN037758.D**

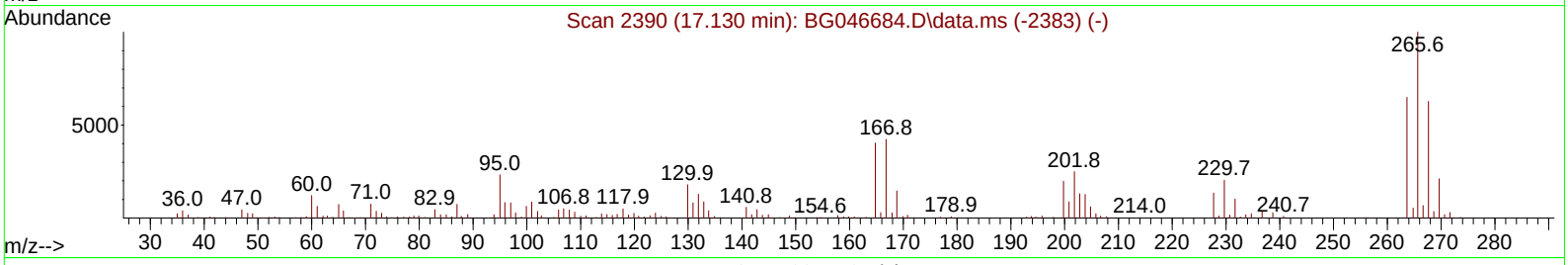
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037758.D
Acq On : 18 Sep 2025 02:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 08:37:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 08:37:03 2025
Response via : Initial Calibration







TIC: BN037758.D\data.ms

(70) Pentachlorophenol (C)

16.886min (0.000) 150096.94 ng

response 1070732

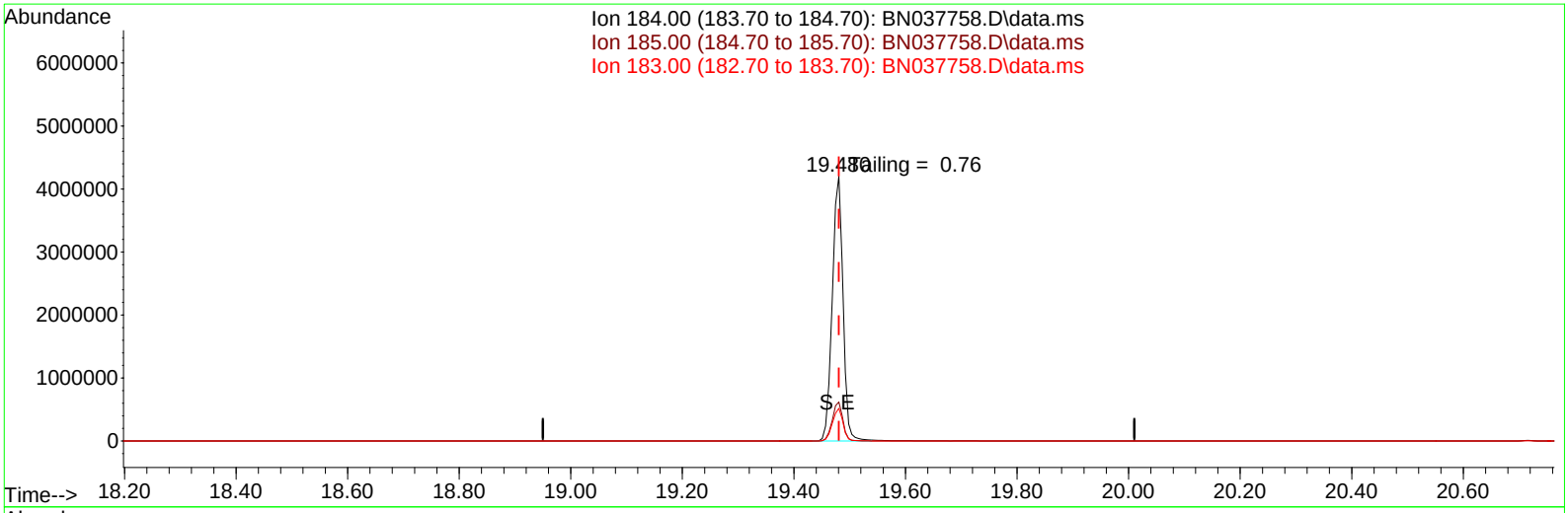
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	61.72
264.00	61.60	59.16
0.00	0.00	0.00

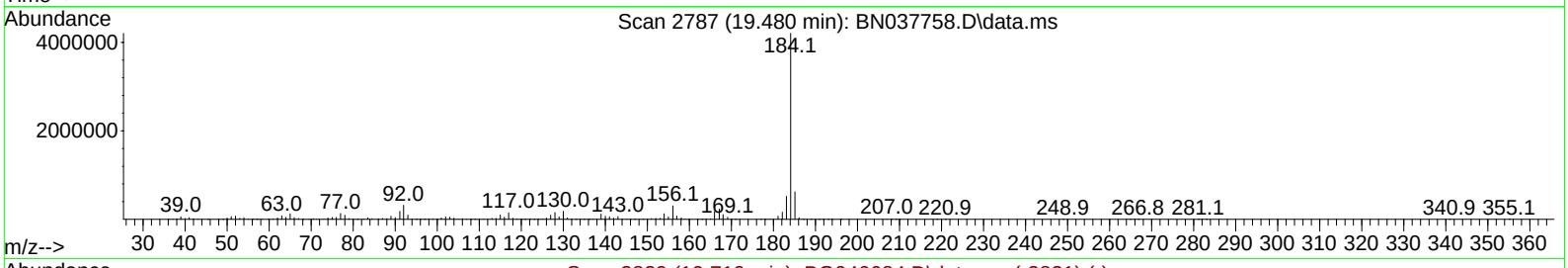
Sample Results: **BN037758.D**

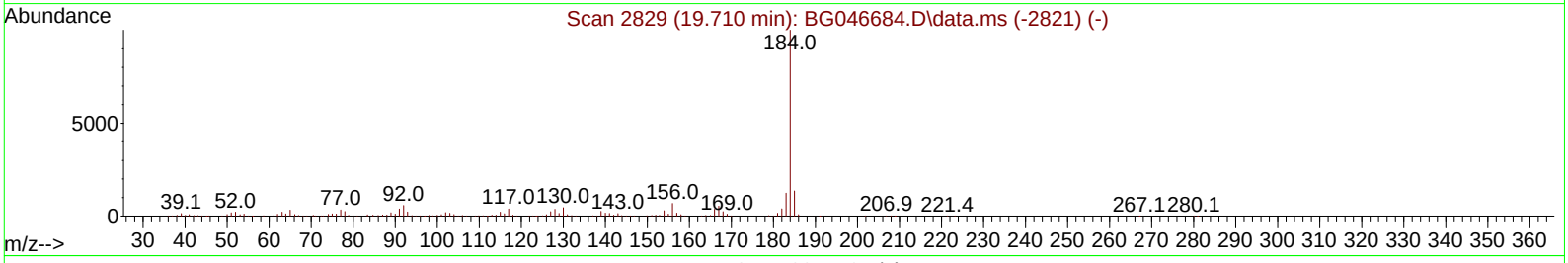
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037758.D
Acq On : 18 Sep 2025 02:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 08:37:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 08:37:03 2025
Response via : Initial Calibration







TIC: BN037758.D\data.ms

(77) Benzidine

19.480min (0.000) 95951.94 ng

response 5587198

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.72
183.00	13.20	12.39
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/17/2025	BNA_N	BN037758.D
Compound Name	**Response**	**Retention Time**
DDT	2444036	20.716
DDD	52273	20.274
DDE	1911	19.769
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
54184	2498220	2.17

Instrument :
BNA_N
ClientSampleId :
DFTPP

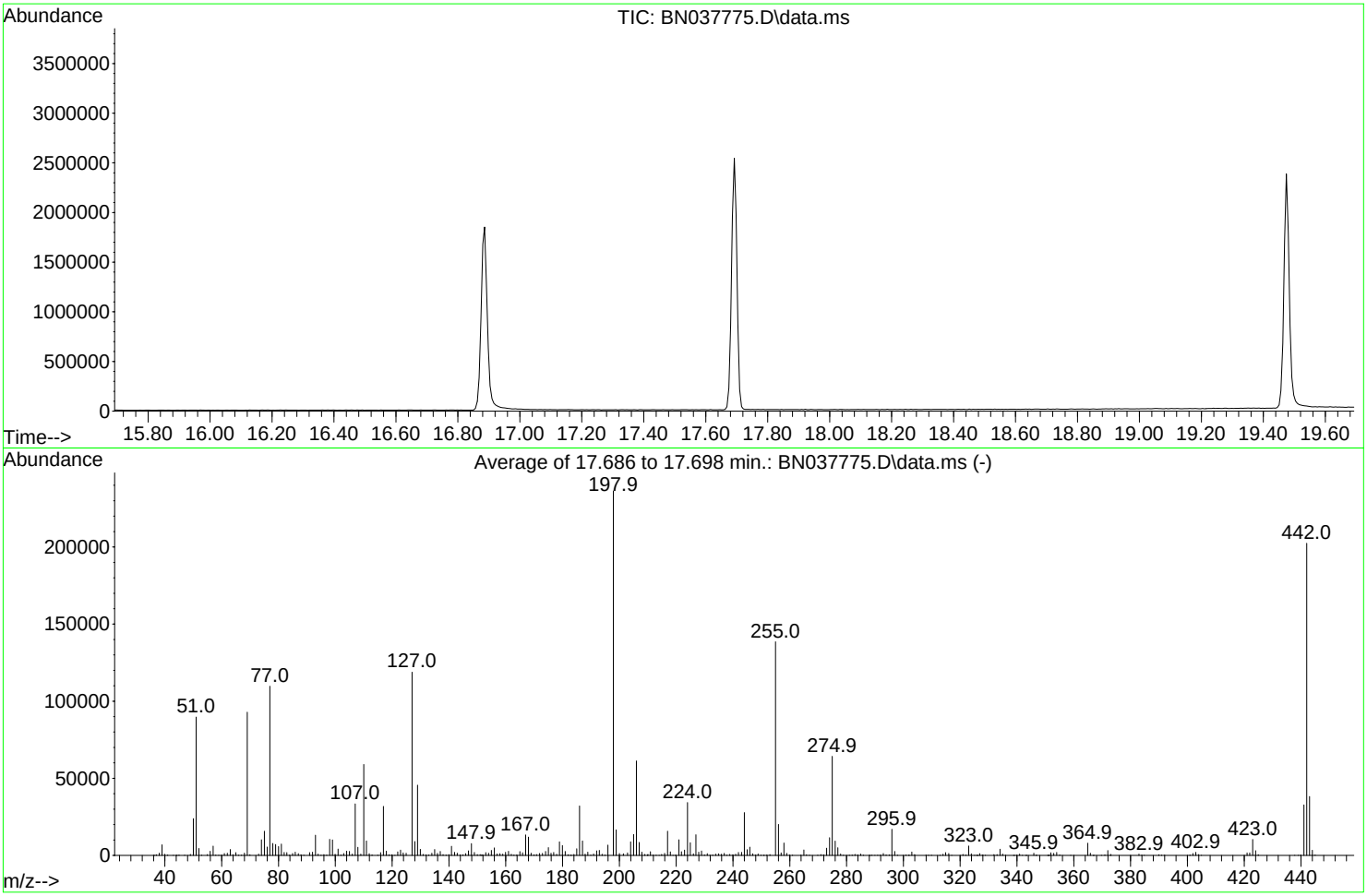
Sample Results: **BN037775.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037775.D
Acq On : 18 Sep 2025 13:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

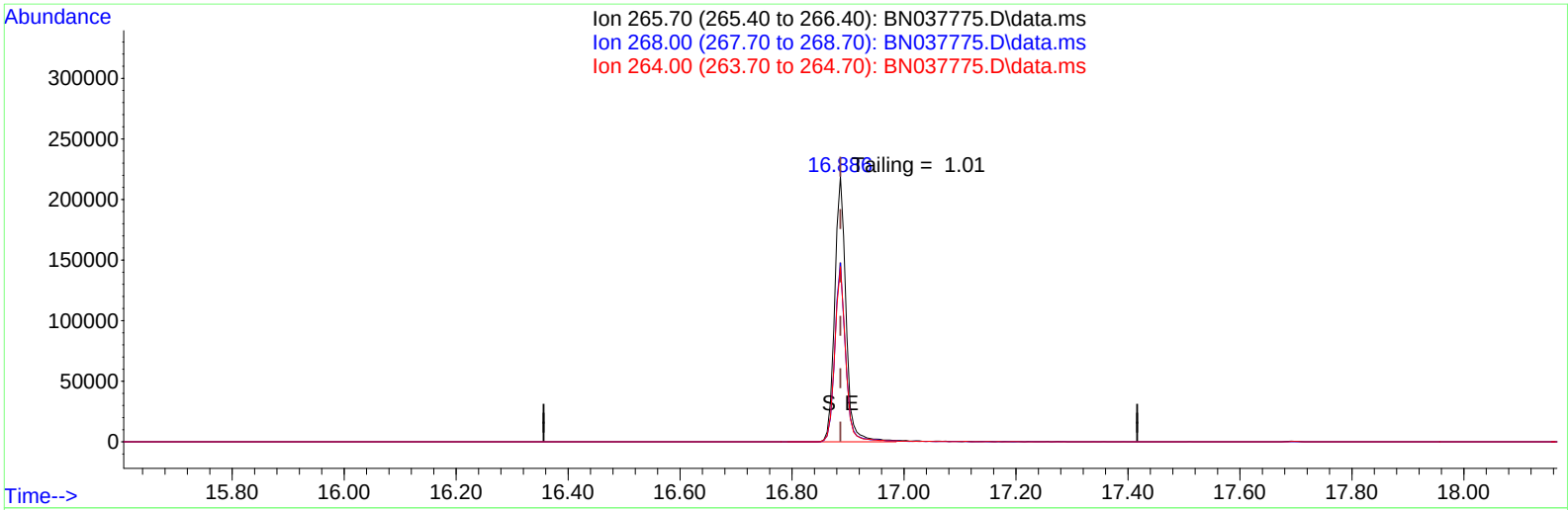
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.7	1536	PASS
69	69	100	100	100.0	92893	PASS
70	69	0.00	2	0.5	488	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	236267	PASS
199	198	5	9	7.0	16530	PASS
365	198	1	100	3.4	7963	PASS
441	443	0.01	150	85.6	32739	PASS
442	442	100	100	100.0	202432	PASS
443	442	15	24	18.9	38232	PASS

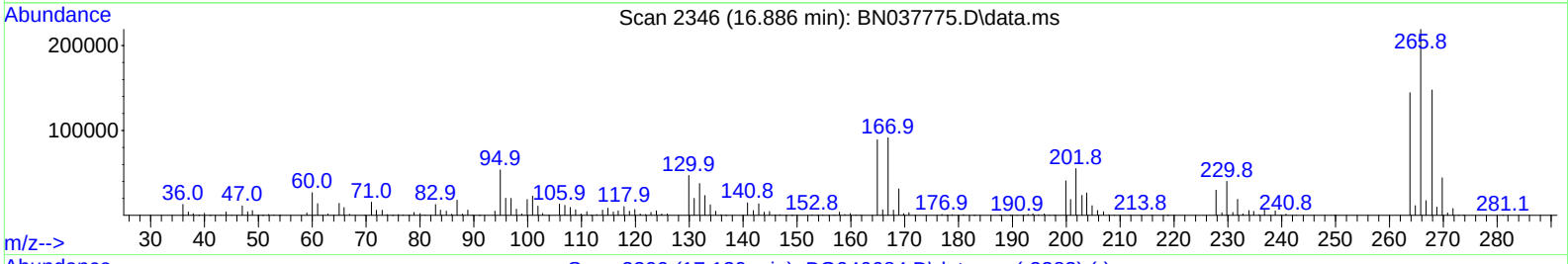
Sample Results: **BN037775.D**

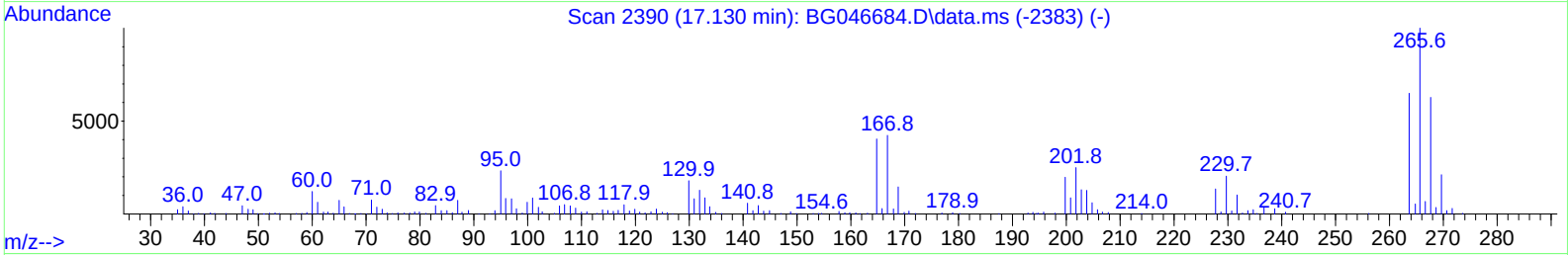
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037775.D
Acq On : 18 Sep 2025 13:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 14:26:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 14:26:16 2025
Response via : Initial Calibration







TIC: BN037775.D\data.ms

(70) Pentachlorophenol (C)

16.886min (0.000) 277.80 ng

response 307595

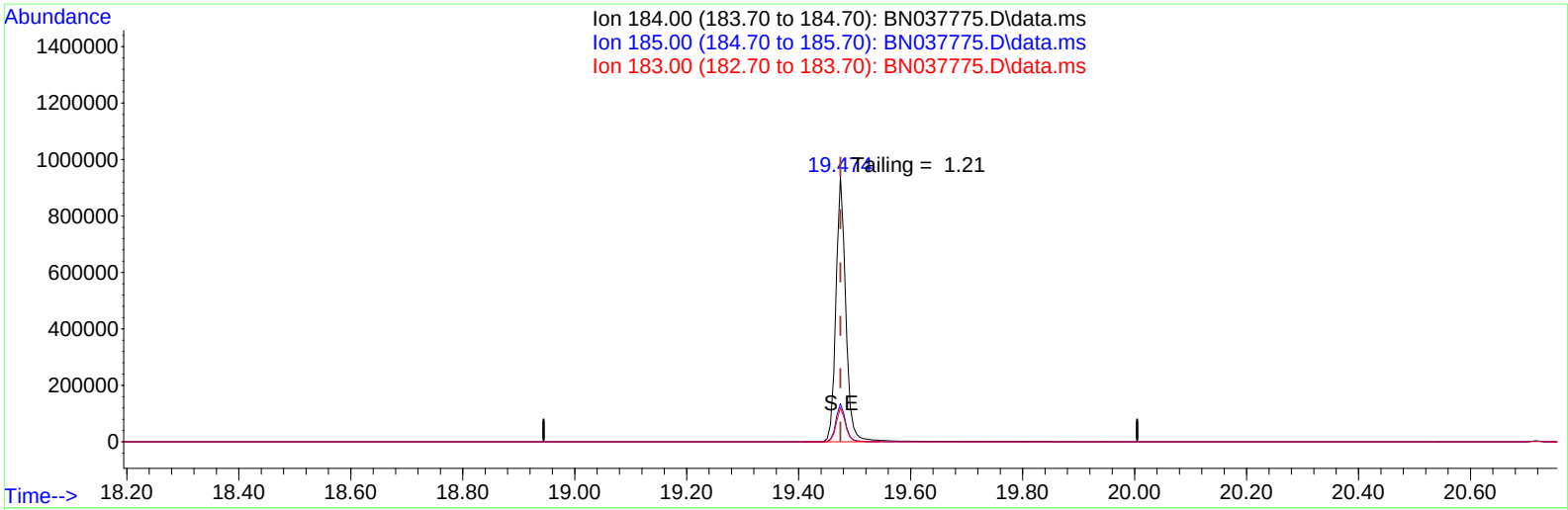
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	67.44
264.00	61.60	66.00
0.00	0.00	0.00

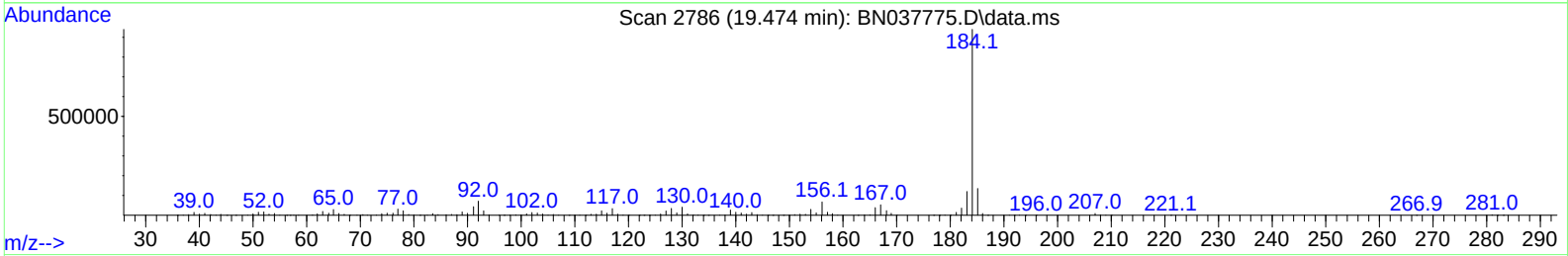
Sample Results: **BN037775.D**

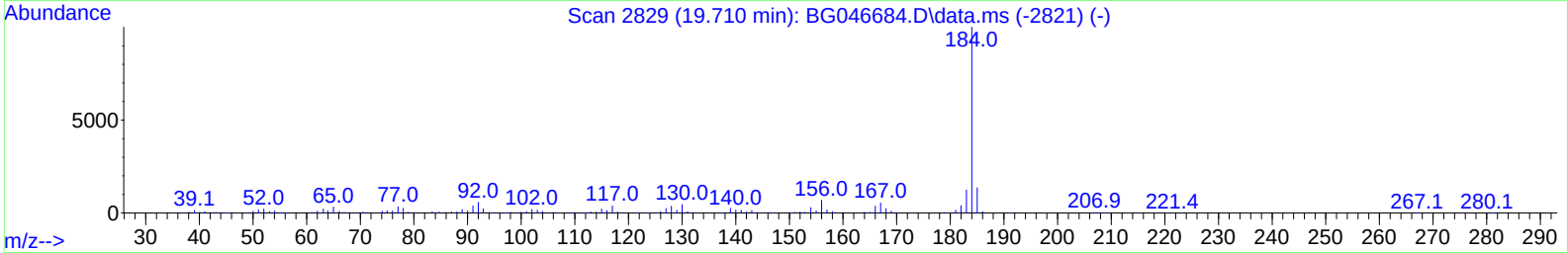
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037775.D
Acq On : 18 Sep 2025 13:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 14:26:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 14:26:16 2025
Response via : Initial Calibration







TIC: BN037775.D\data.ms

(77) Benzidine

19.474min (0.000) 0.00 ng

response 1155100

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.36
183.00	13.20	12.81
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/18/2025	BNA_N	BN037775.D
Compound Name	**Response**	**Retention Time**
DDT	760598	20.715
DDD	22424	20.274
DDE	1646	19.774
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
24070	784668	3.07

Instrument :
BNA_N
ClientSampleId :
DFTPP

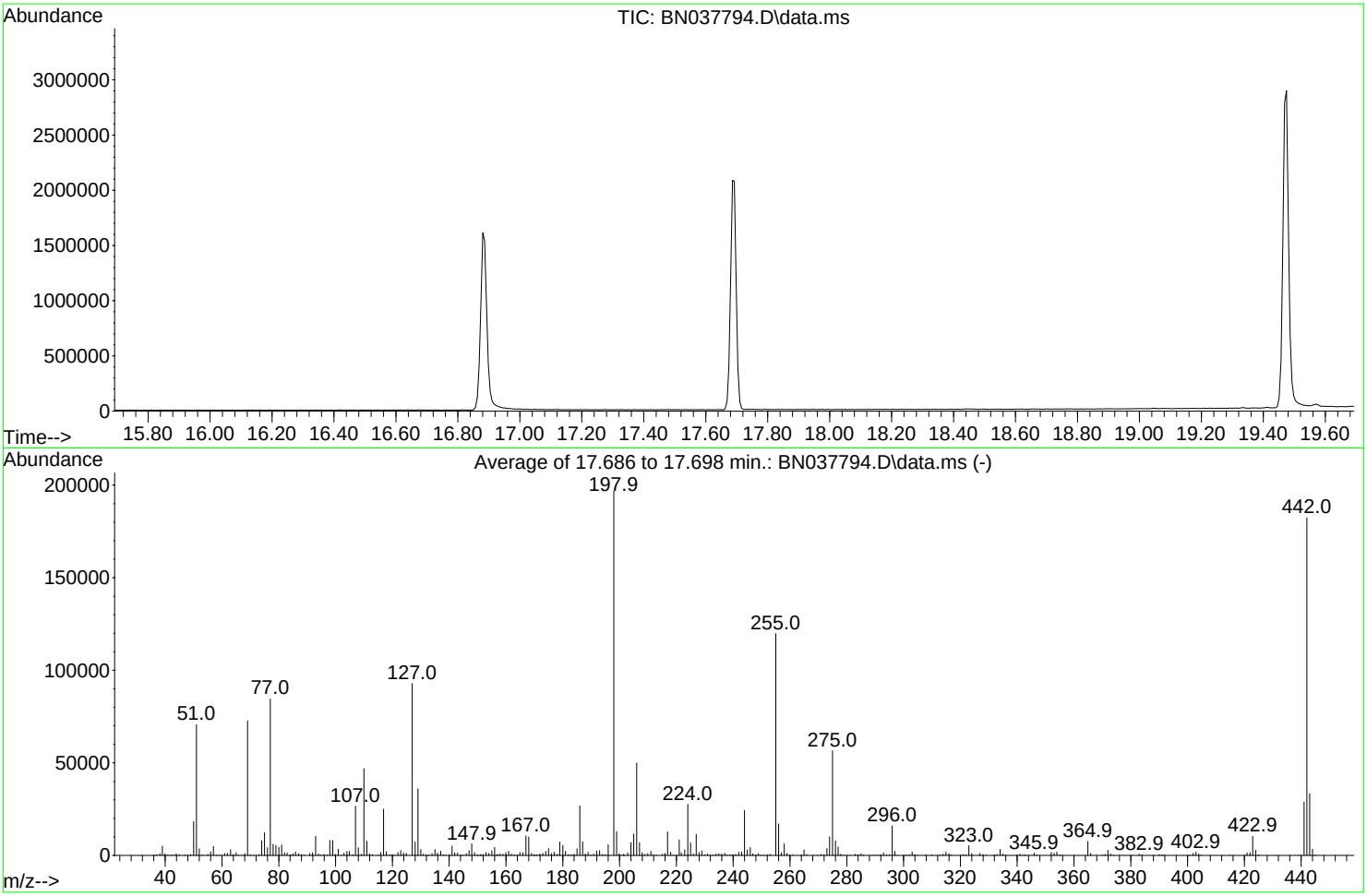
Sample Results: **BN037794.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037794.D
Acq On : 19 Sep 2025 02:08
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

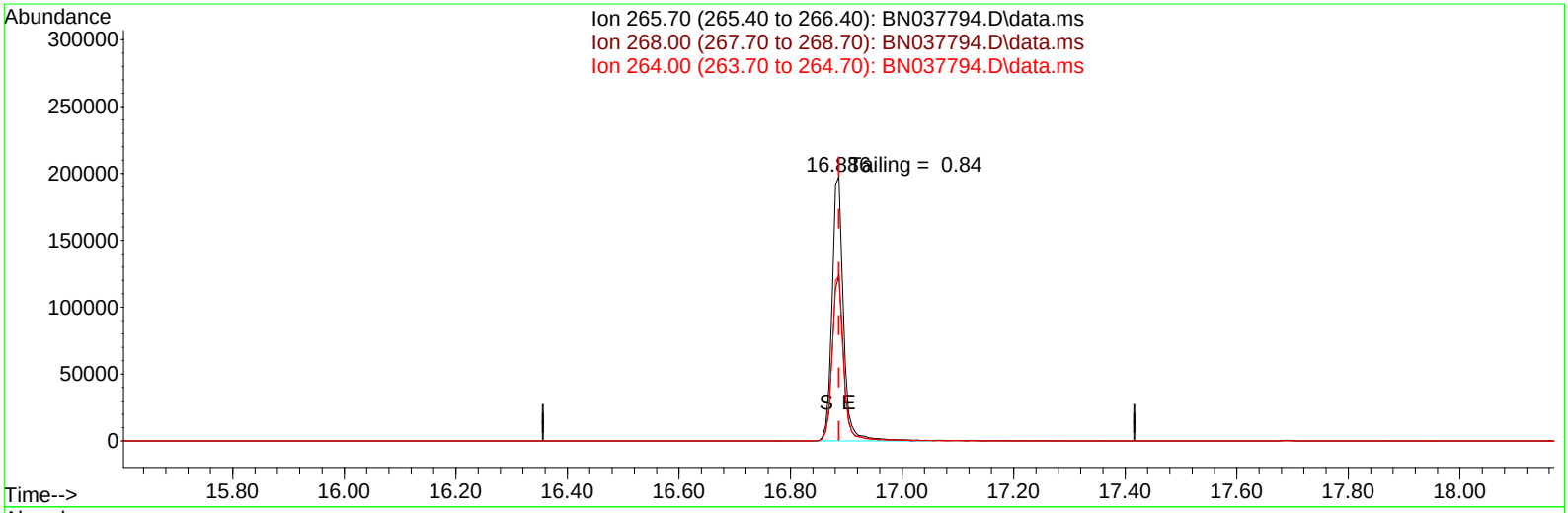
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.4	987	PASS
69	69	100	100	100.0	72725	PASS
70	69	0.00	2	0.6	414	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	196813	PASS
199	198	5	9	6.6	12909	PASS
365	198	1	100	3.8	7534	PASS
441	443	0.01	150	86.4	28805	PASS
442	442	100	100	100.0	182293	PASS
443	442	15	24	18.3	33347	PASS

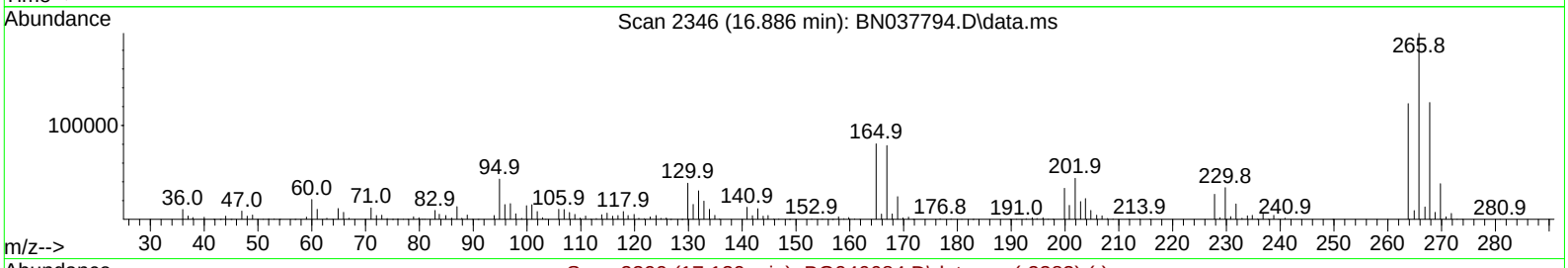
Sample Results: **BN037794.D**

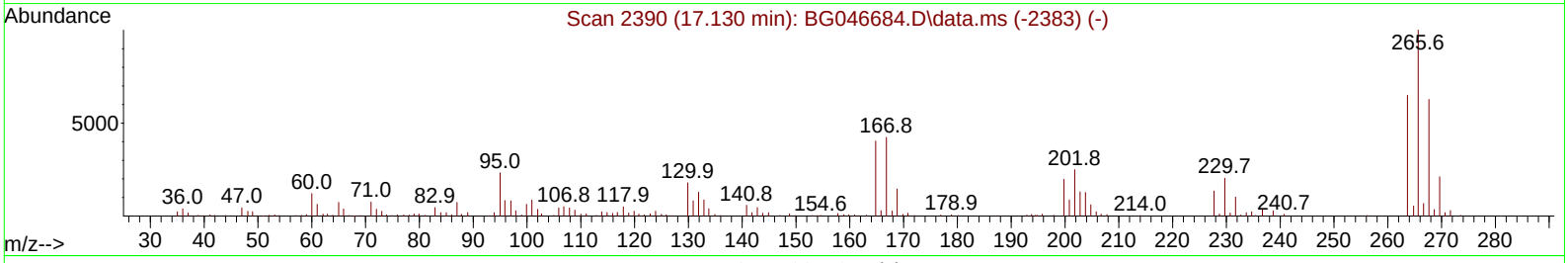
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037794.D
Acq On : 19 Sep 2025 02:08
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 19 04:29:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 19 04:29:39 2025
Response via : Initial Calibration







TIC: BN037794.D\data.ms

(70) Pentachlorophenol (C)

16.886min (0.000) 32518.88 ng

response 284548

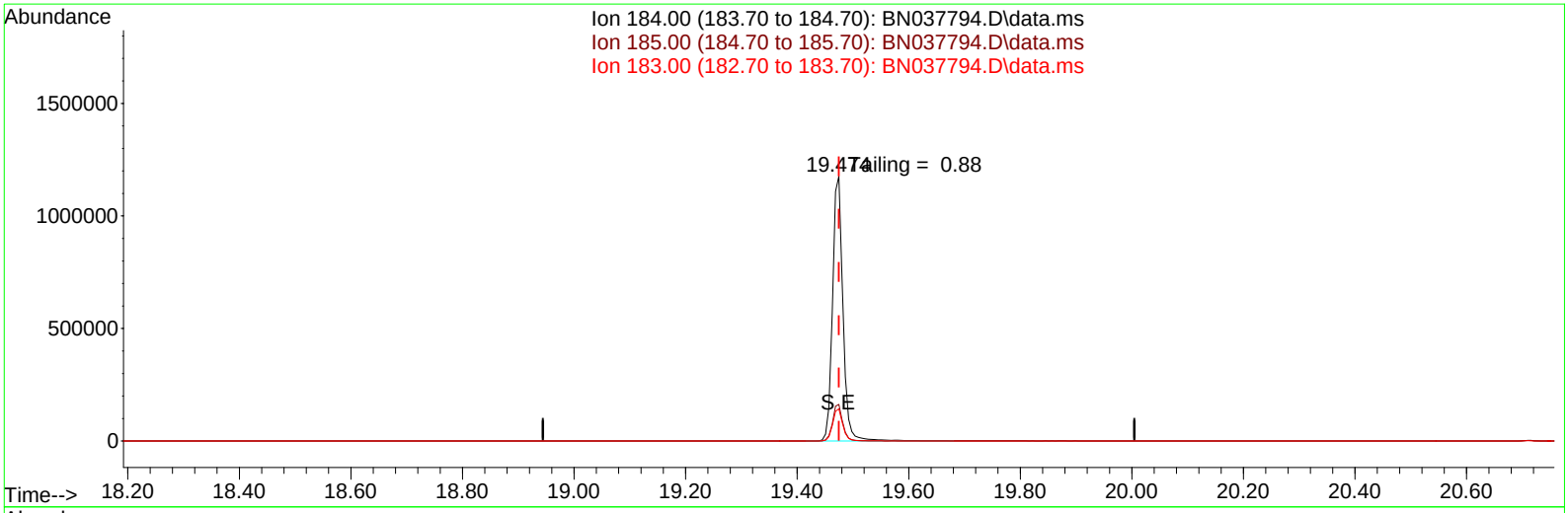
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.85
264.00	61.60	62.23
0.00	0.00	0.00

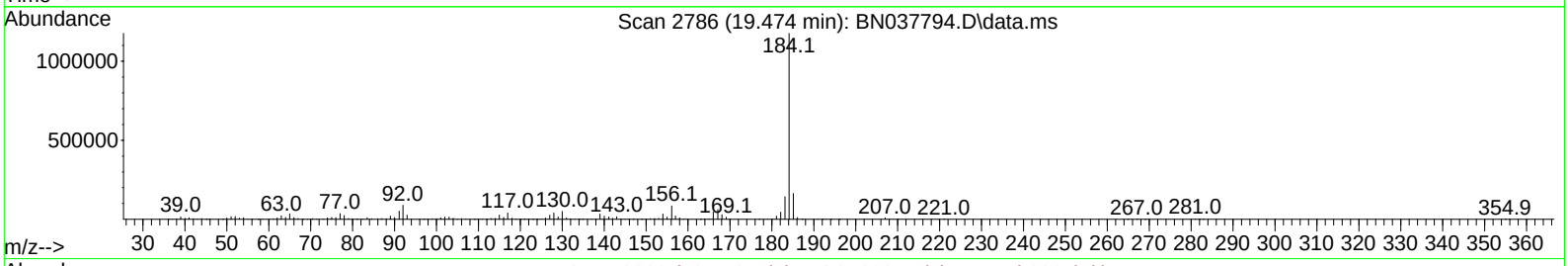
Sample Results: **BN037794.D**

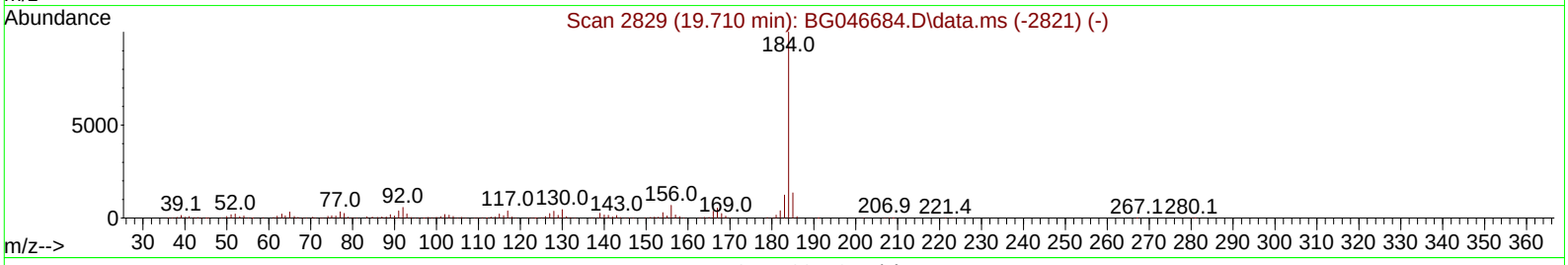
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037794.D
Acq On : 19 Sep 2025 02:08
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 19 04:29:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 19 04:29:39 2025
Response via : Initial Calibration







TIC: BN037794.D\data.ms

(77) Benzidine

19.474min (0.000) 0.00 ng

response 1527830

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.88
183.00	13.20	12.20
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/18/2025	BNA_N	BN037794.D
Compound Name	**Response**	**Retention Time**
DDT	688292	20.71
DDD	26538	20.269
DDE	1670	19.769
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
28208	716500	3.94

Instrument :
BNA_N
ClientSampleId :
DFTPP

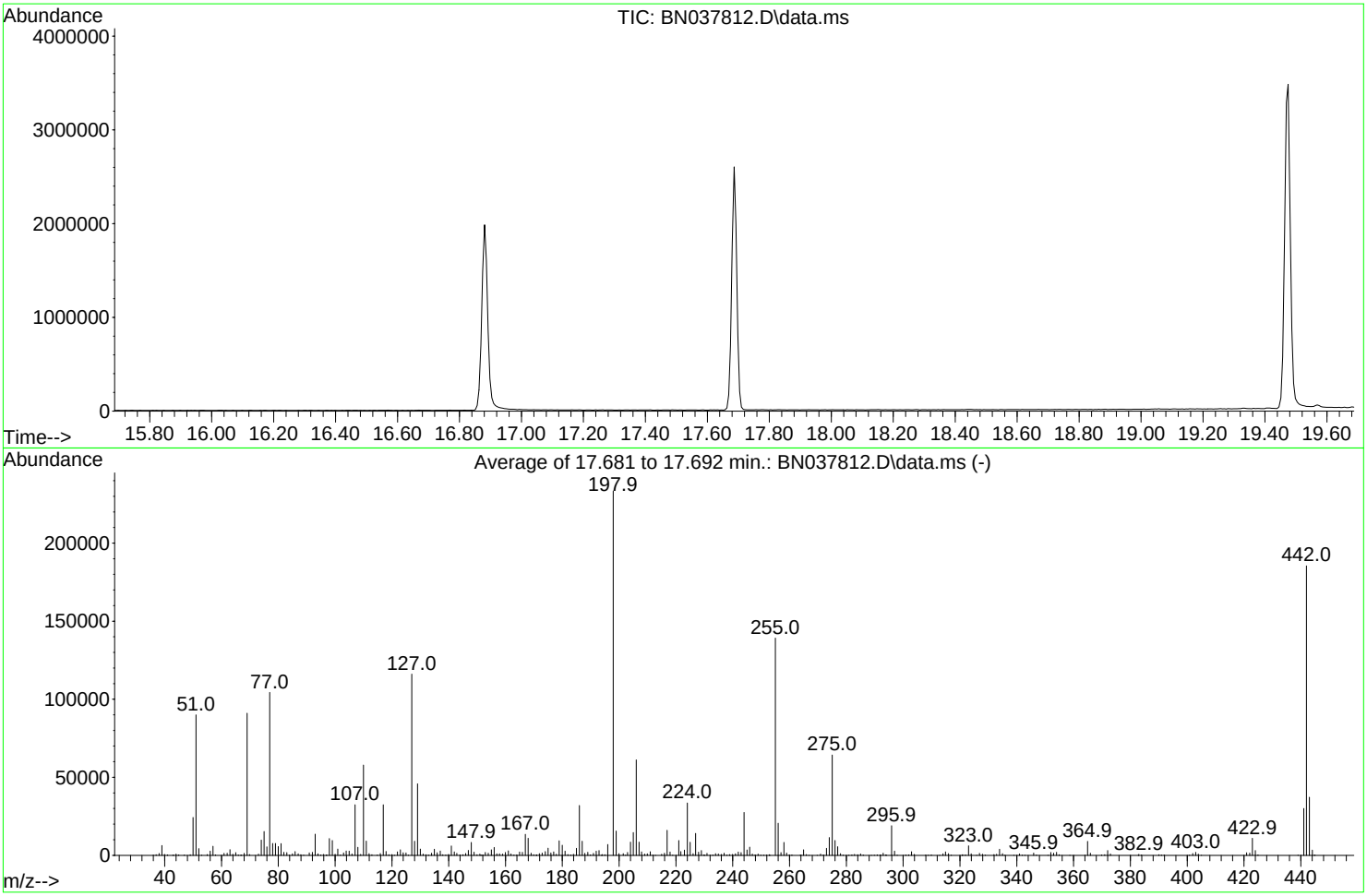
Sample Results: **BN037812.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037812.D
Acq On : 19 Sep 2025 13:39
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

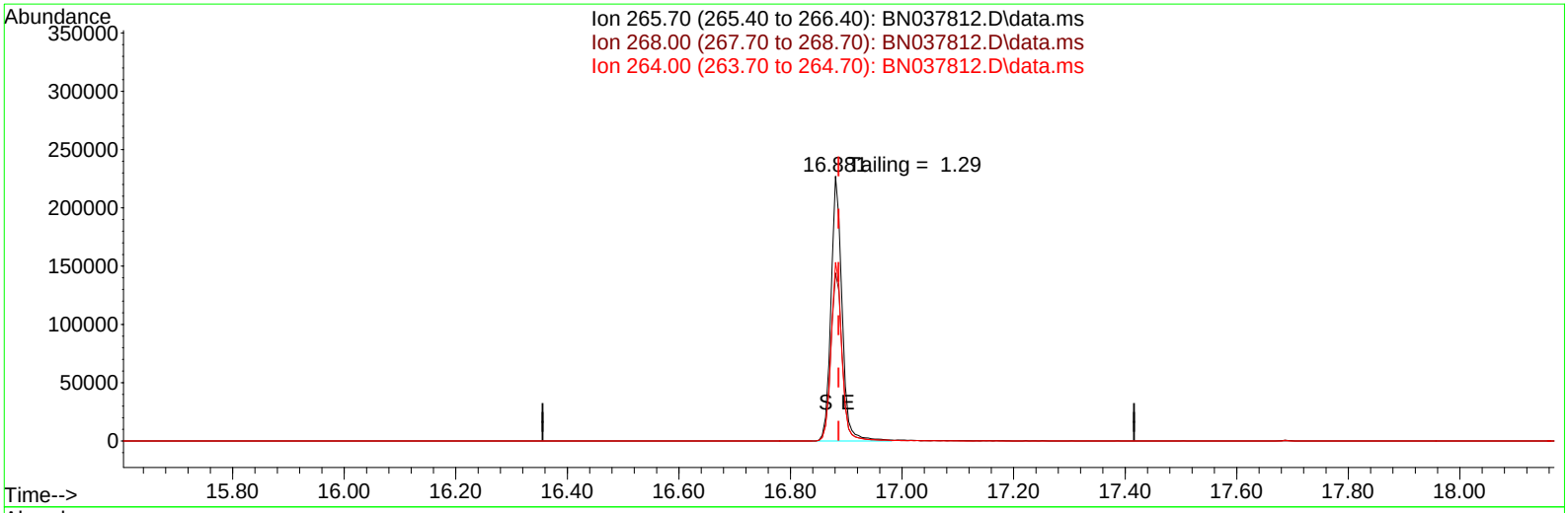
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.4	1252	PASS
69	69	100	100	100.0	91029	PASS
70	69	0.00	2	0.6	539	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	233408	PASS
199	198	5	9	6.7	15546	PASS
365	198	1	100	3.8	8907	PASS
441	443	0.01	150	80.8	30061	PASS
442	442	100	100	100.0	185456	PASS
443	442	15	24	20.1	37200	PASS

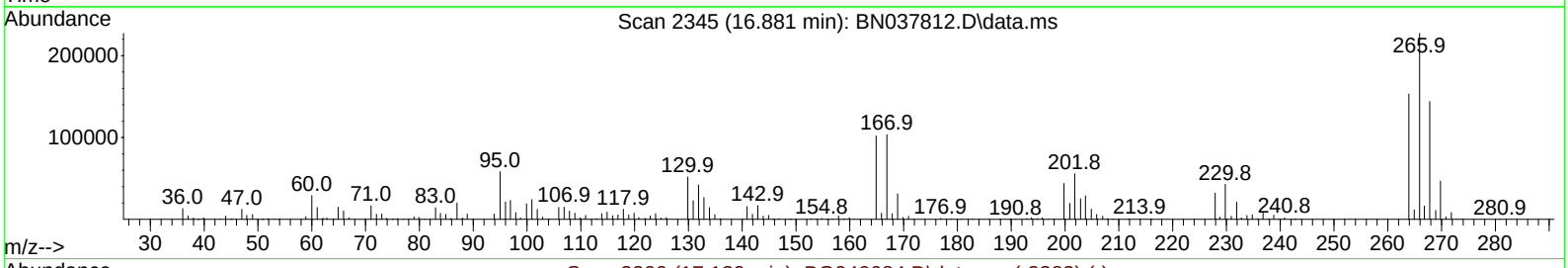
Sample Results: **BN037812.D**

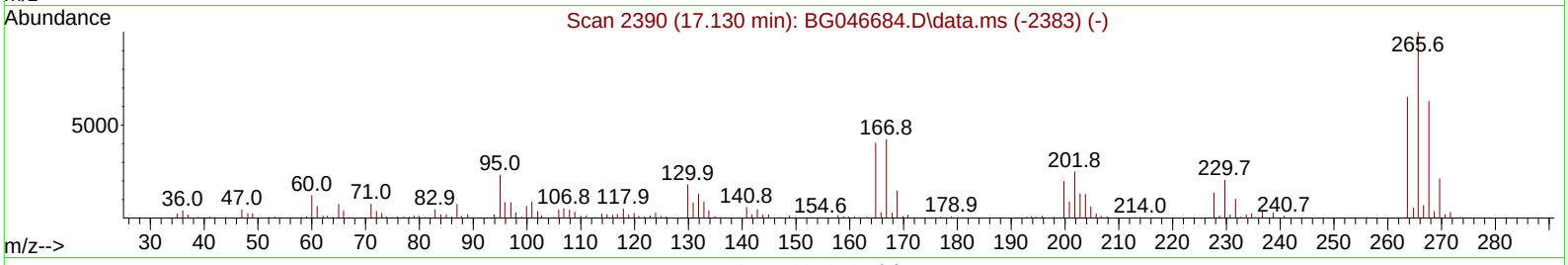
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037812.D
Acq On : 19 Sep 2025 13:39
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 22 20:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration







TIC: BN037812.D\data.ms

(70) Pentachlorophenol (C)

16.881min (-0.005) 23824.83 ng

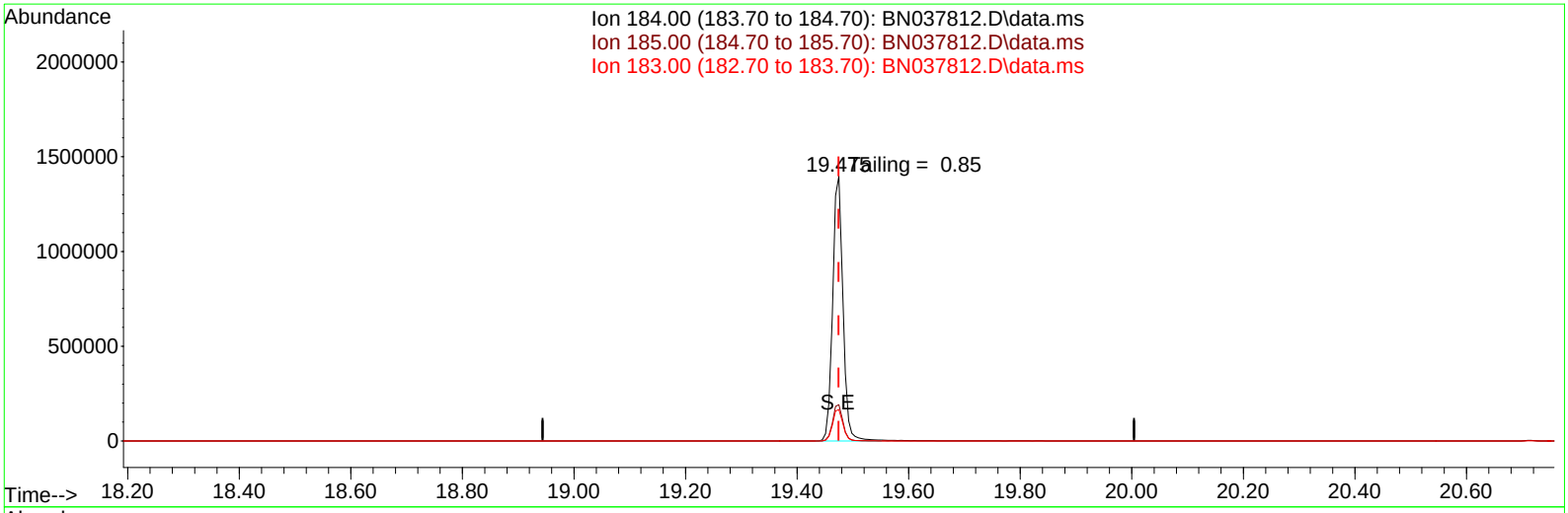
response 312055

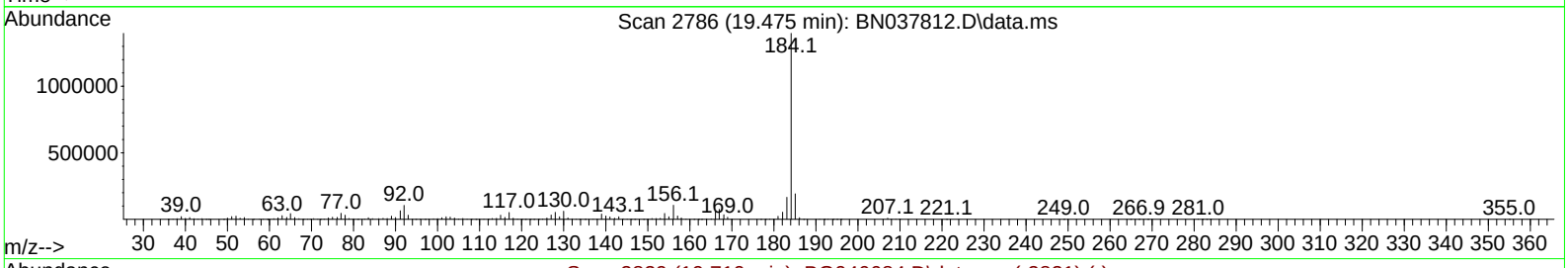
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.43
264.00	61.60	67.43
0.00	0.00	0.00

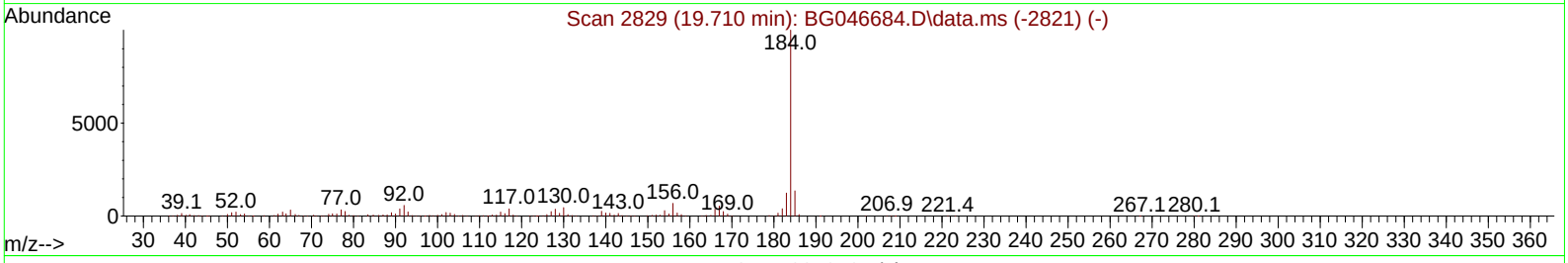
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037812.D
Acq On : 19 Sep 2025 13:39
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 22 20:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration







TIC: BN037812.D\data.ms

(77) Benzidine

19.475min (+ 0.001) 0.00 ng

response 1812303

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.75
183.00	13.20	11.88
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/19/2025	BNA_N	BN037812.D
Compound Name	**Response**	**Retention Time**
DDT	836771	20.716
DDD	28711	20.275
DDE	1832	19.769
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
30543	867314	3.52

Instrument :
BNA_N
ClientSampleId :
DFTPP

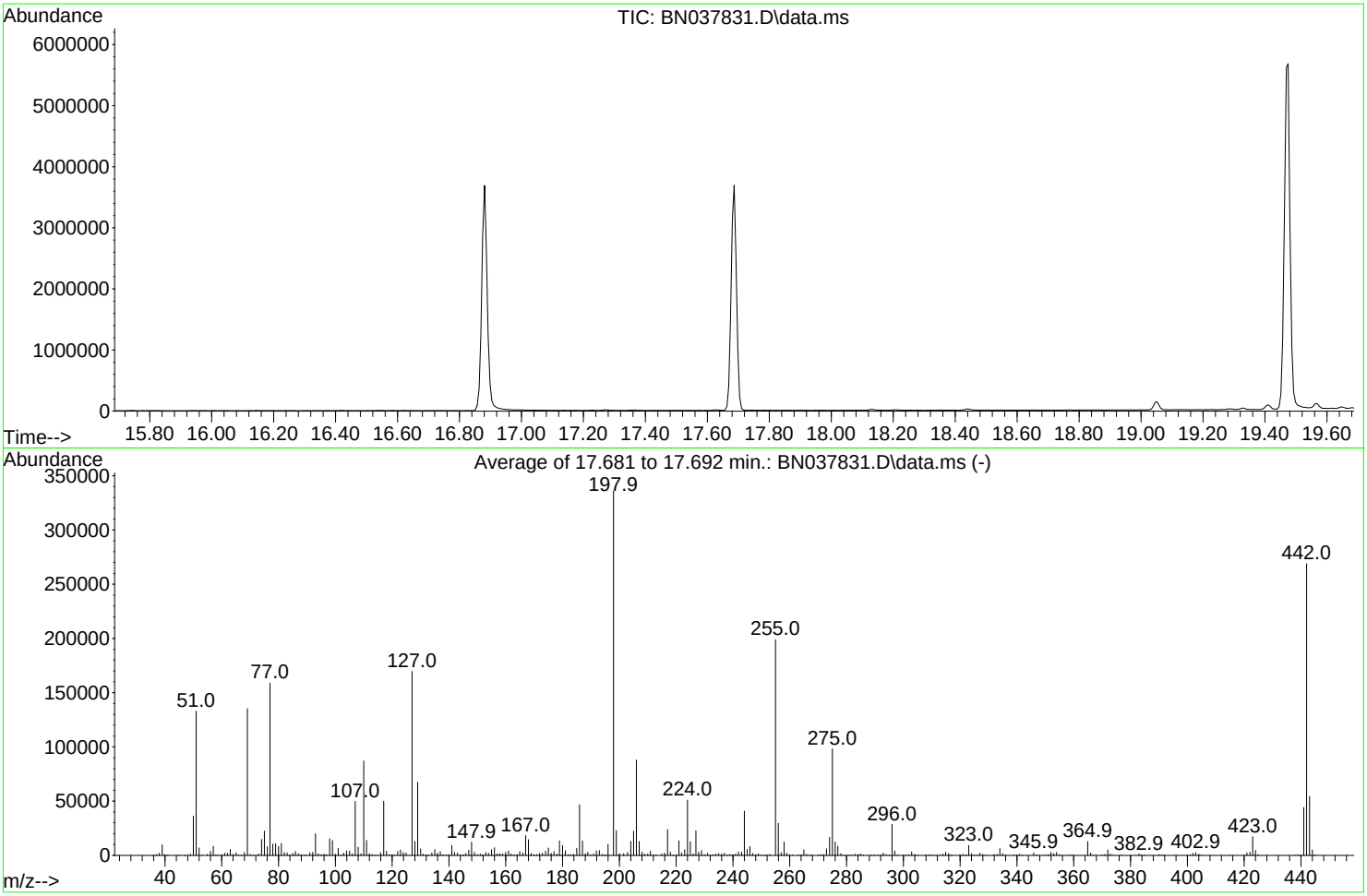
Sample Results: **BN037831.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037831.D
Acq On : 20 Sep 2025 01:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

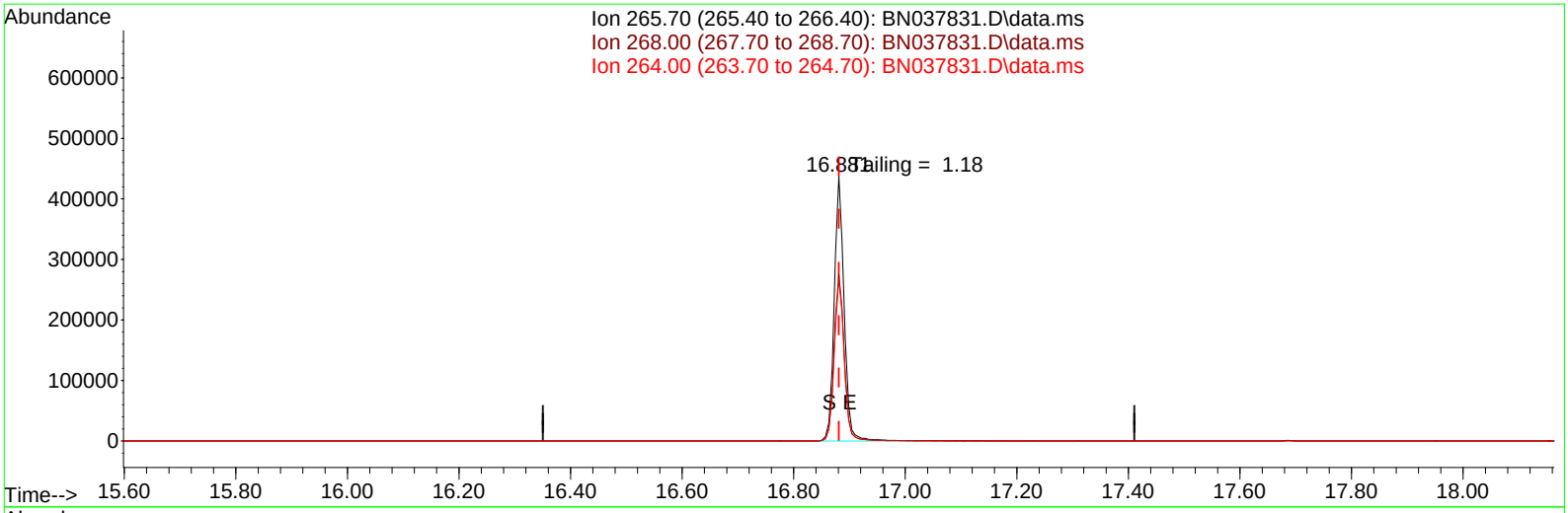
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.9	2623	PASS
69	69	100	100	100.0	135264	PASS
70	69	0.00	2	0.6	760	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	335979	PASS
199	198	5	9	6.8	22795	PASS
365	198	1	100	3.8	12691	PASS
441	443	0.01	150	81.3	44184	PASS
442	442	100	100	100.0	268907	PASS
443	442	15	24	20.2	54328	PASS

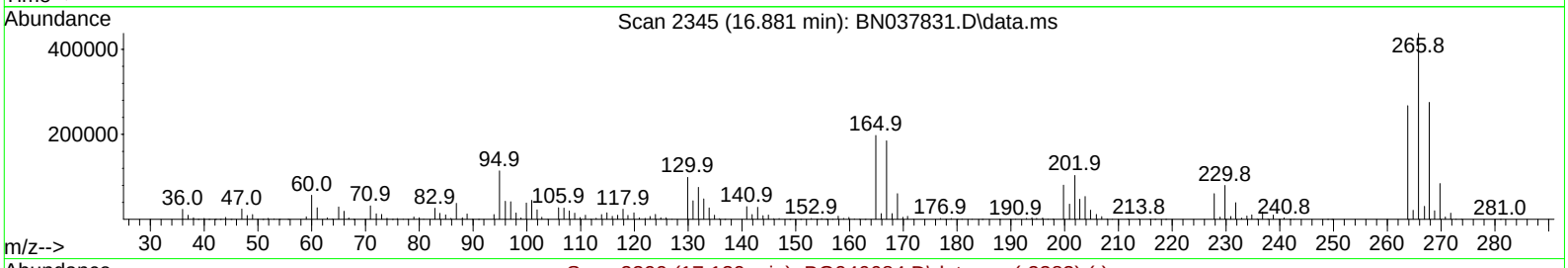
Sample Results: **BN037831.D**

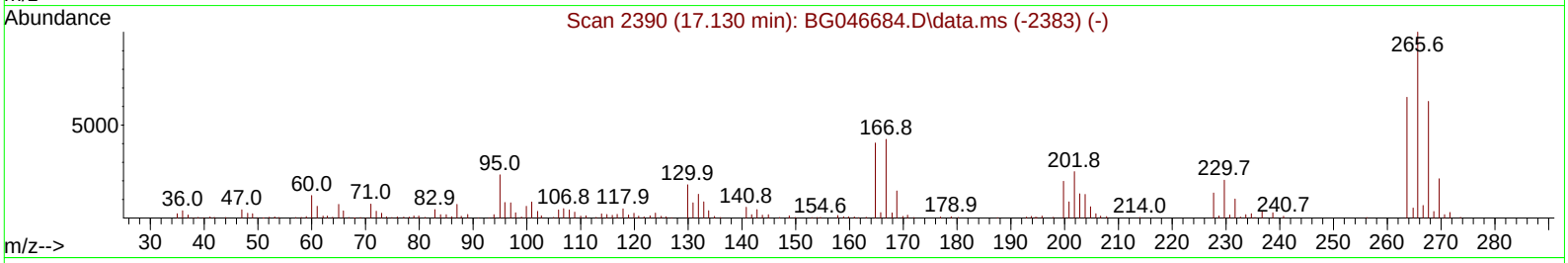
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037831.D
Acq On : 20 Sep 2025 01:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 20 01:53:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration







TIC: BN037831.D\data.ms

(70) Pentachlorophenol (C)

16.881min (0.000) 34698.10 ng

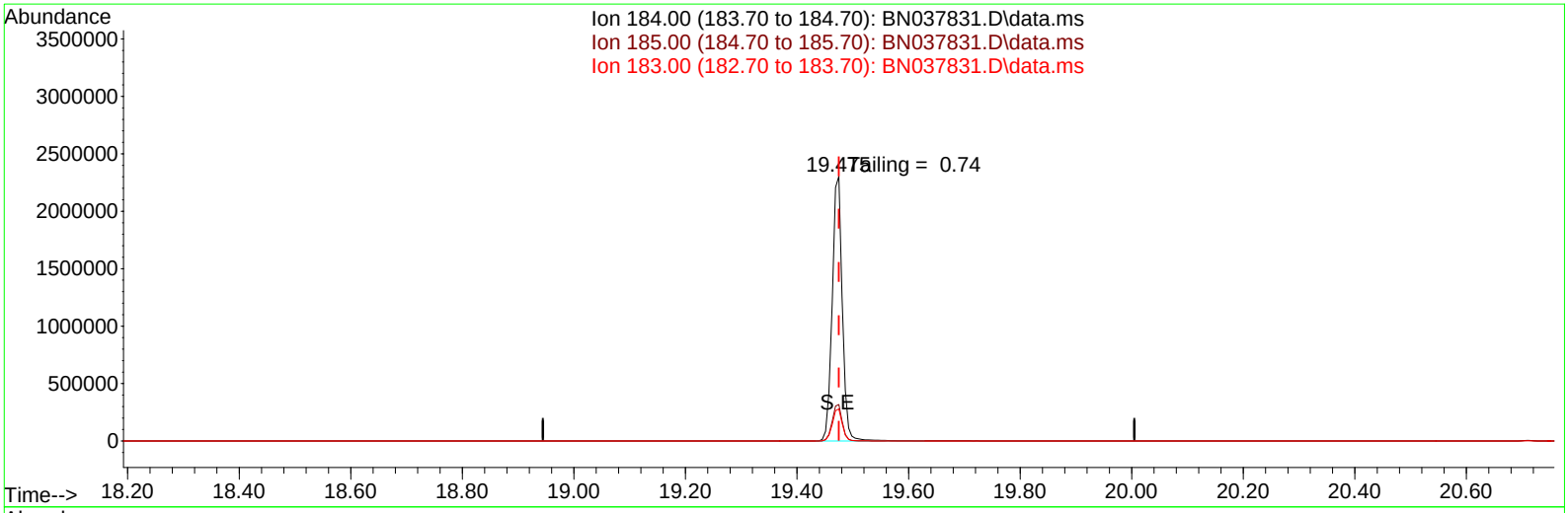
response 541064

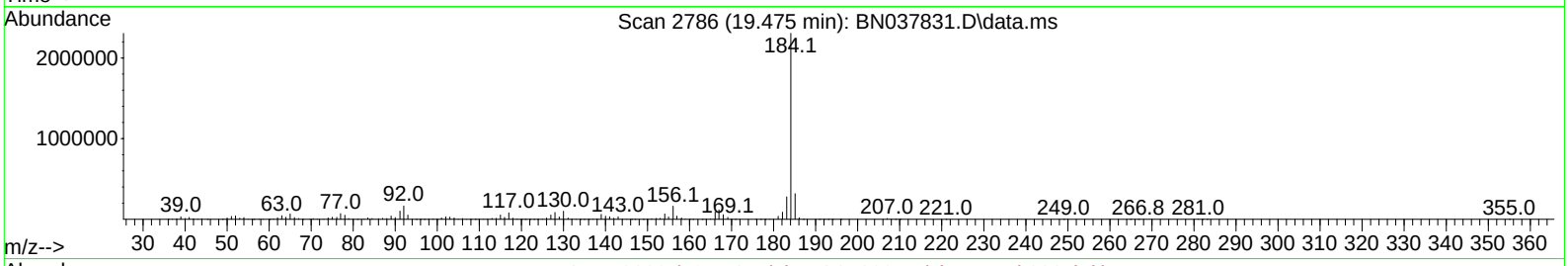
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.87
264.00	61.60	61.16
0.00	0.00	0.00

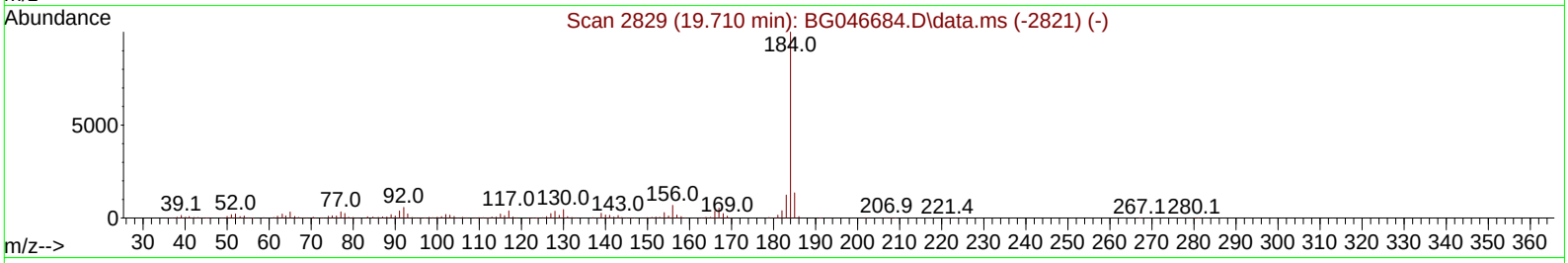
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037831.D
Acq On : 20 Sep 2025 01:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 20 01:53:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration







TIC: BN037831.D\data.ms

(77) Benzidine

19.475min (0.000) 0.00 ng

response 2907322

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.77
183.00	13.20	12.11
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/19/2025	BNA_N	BN037831.D
Compound Name	**Response**	**Retention Time**
DDT	1283981	20.71
DDD	30254	20.269
DDE	1457	19.769
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
31711	1315692	2.41

Instrument :
BNA_N
ClientSampleId :
DFTPP

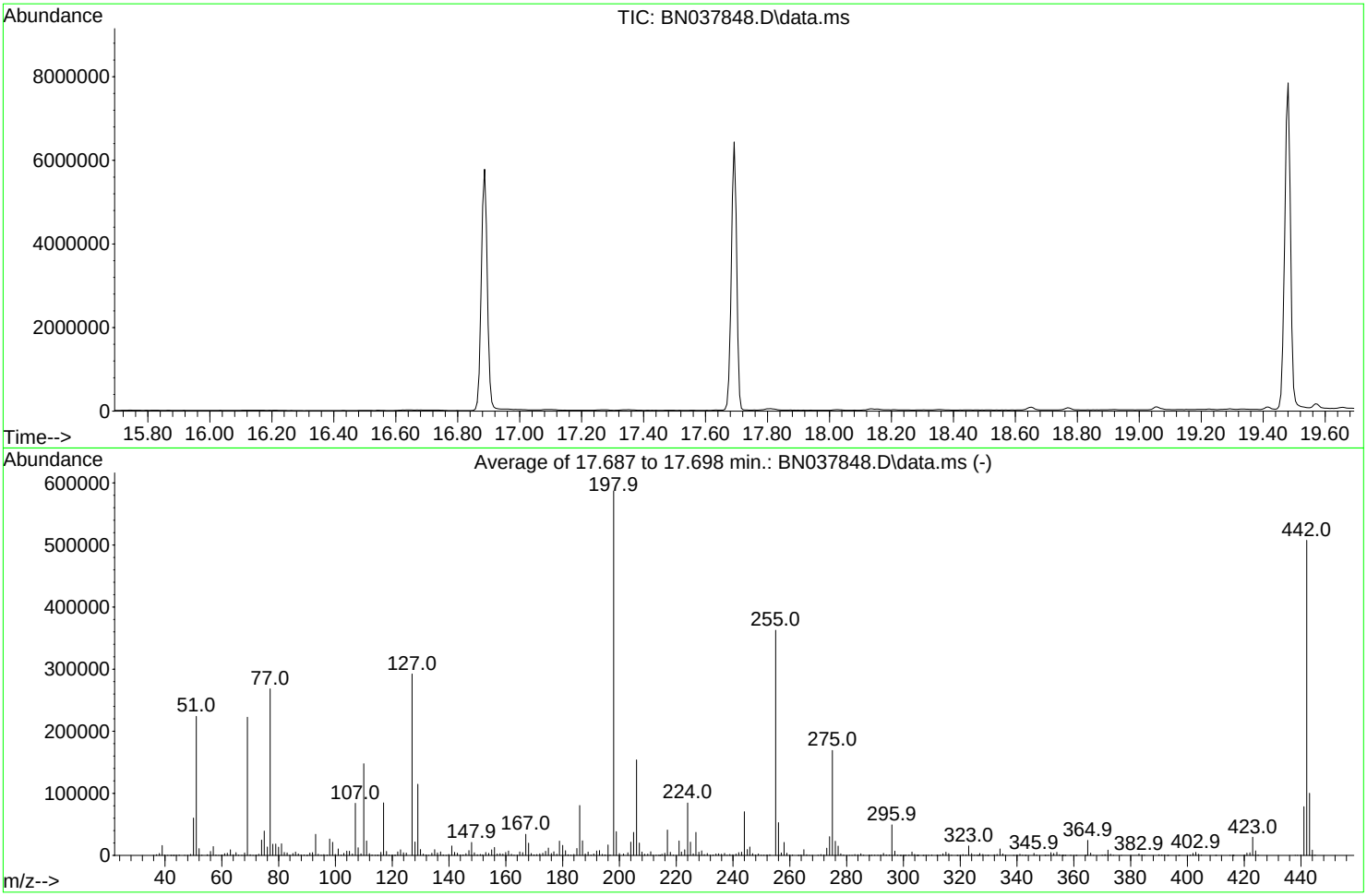
Sample Results: **BN037848.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037848.D
Acq On : 22 Sep 2025 08:59
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

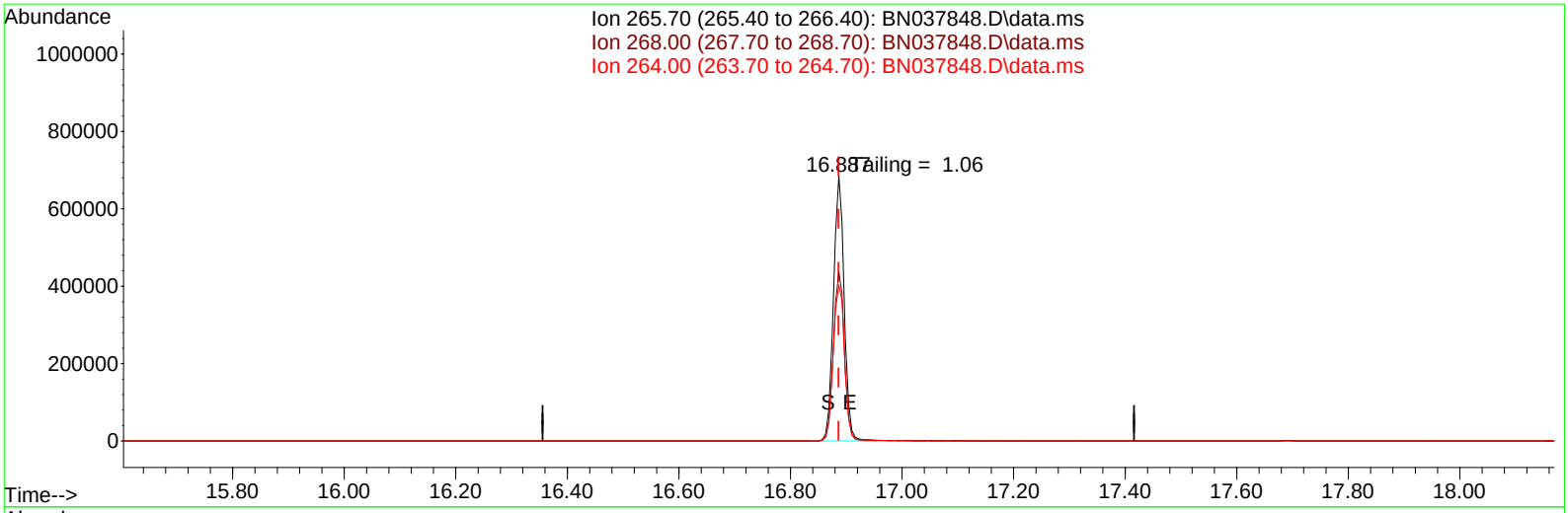
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.8	3978	PASS
69	69	100	100	100.0	222750	PASS
70	69	0.00	2	0.5	1151	PASS
197	198	0.00	2	0.1	725	PASS
198	198	100	100	100.0	586901	PASS
199	198	5	9	6.5	38309	PASS
365	198	1	100	4.1	24221	PASS
441	443	0.01	150	78.4	78467	PASS
442	442	100	100	100.0	507499	PASS
443	442	15	24	19.7	100147	PASS

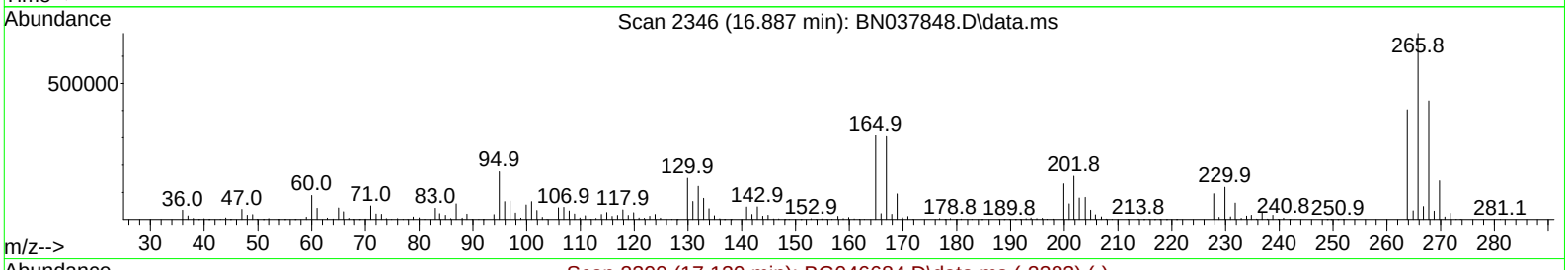
Sample Results: **BN037848.D**

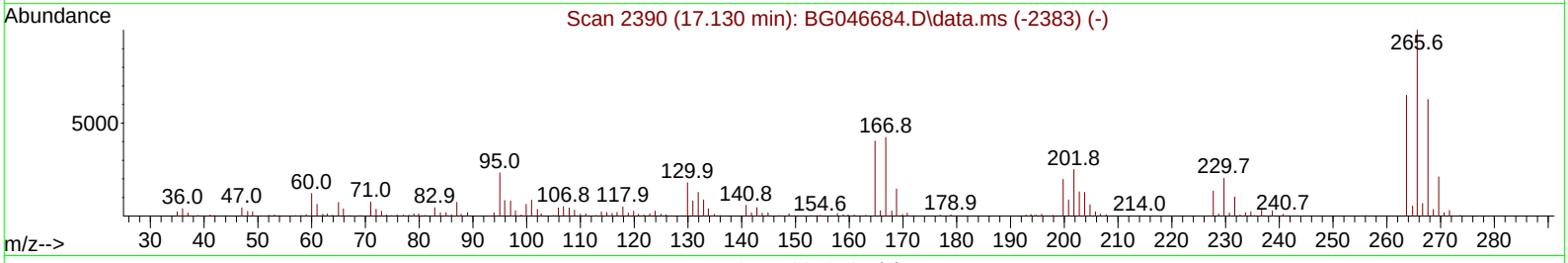
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037848.D
Acq On : 22 Sep 2025 08:59
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 22 13:51:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration







TIC: BN037848.D\data.ms

(70) Pentachlorophenol (C)

16.887min (+ 0.001) 31161.16 ng

response 916310

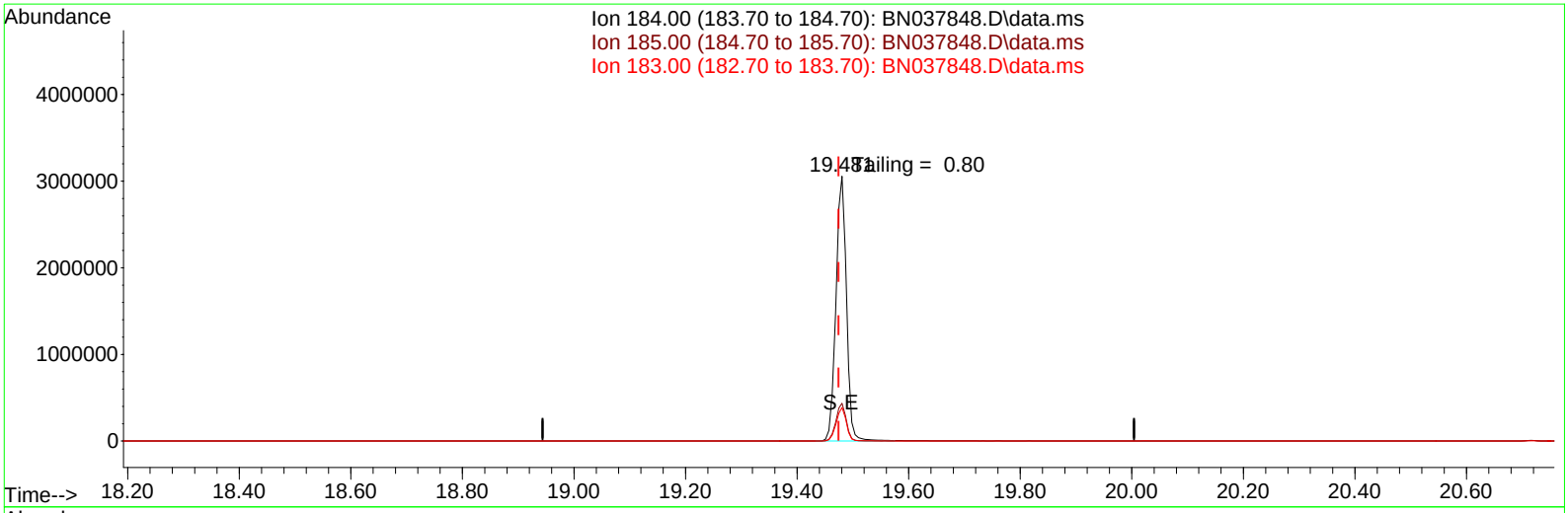
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.71
264.00	61.60	58.94
0.00	0.00	0.00

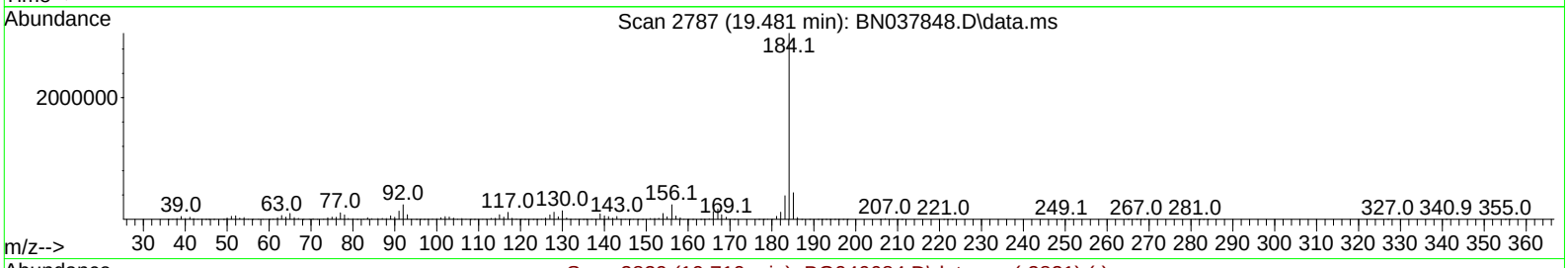
Sample Results: **BN037848.D**

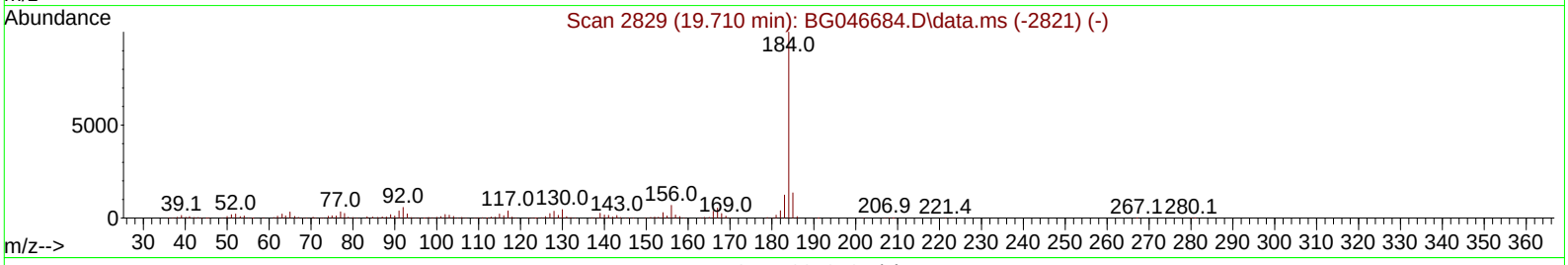
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037848.D
Acq On : 22 Sep 2025 08:59
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 22 13:51:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration







TIC: BN037848.D\data.ms

(77) Benzidine

19.481min (+ 0.006) 0.00 ng

response 4033195

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.29
183.00	13.20	12.68
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/22/2025	BNA_N	BN037848.D
Compound Name	**Response**	**Retention Time**
DDT	1976892	20.716
DDD	45417	20.275
DDE	4263	19.769
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
49680	2026572	2.45

Instrument :
BNA_N
ClientSampleId :
DFTPP

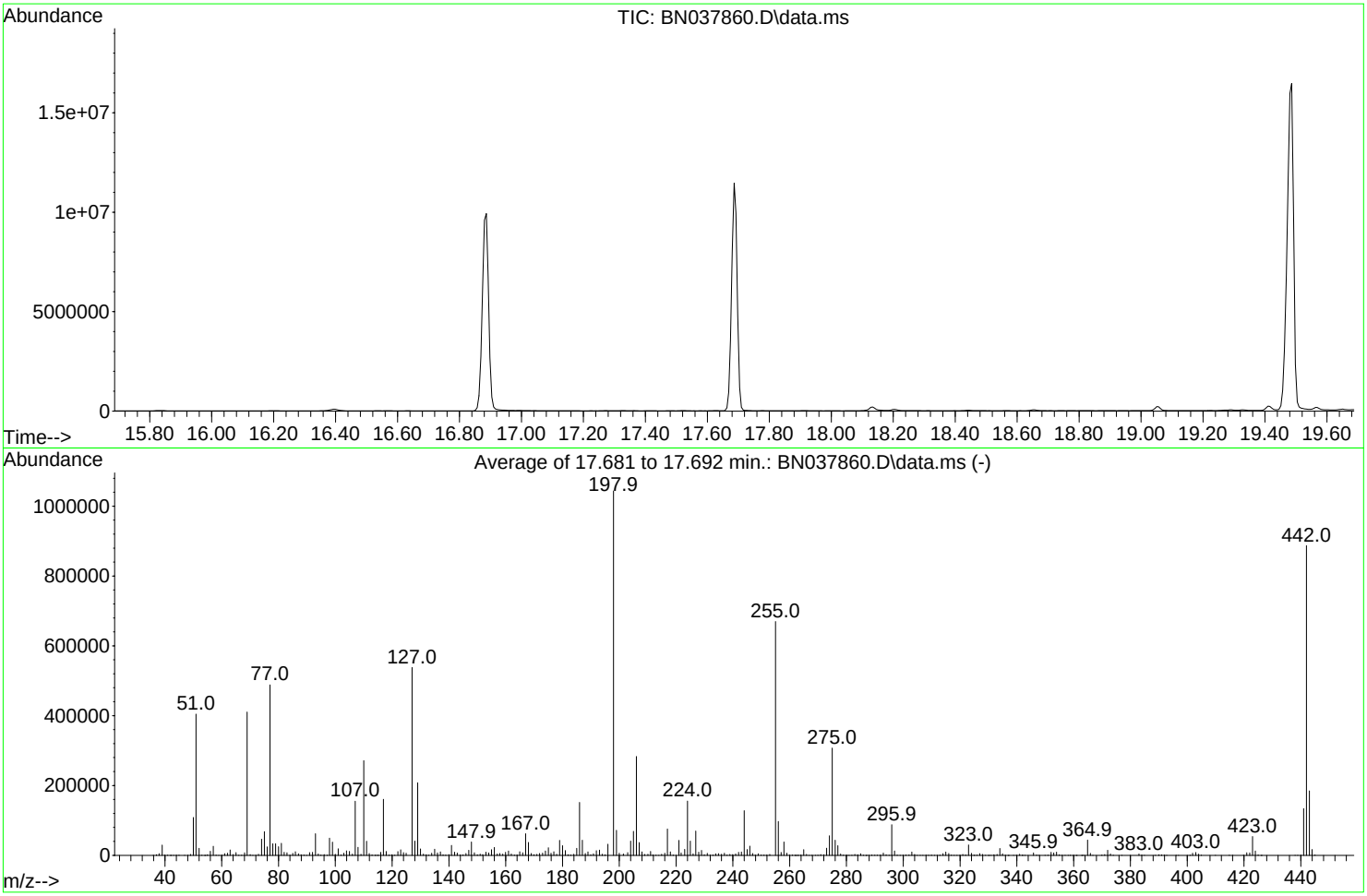
Sample Results: **BN037860.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037860.D
Acq On : 23 Sep 2025 11:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Sep 23 17:30:29 2025



AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

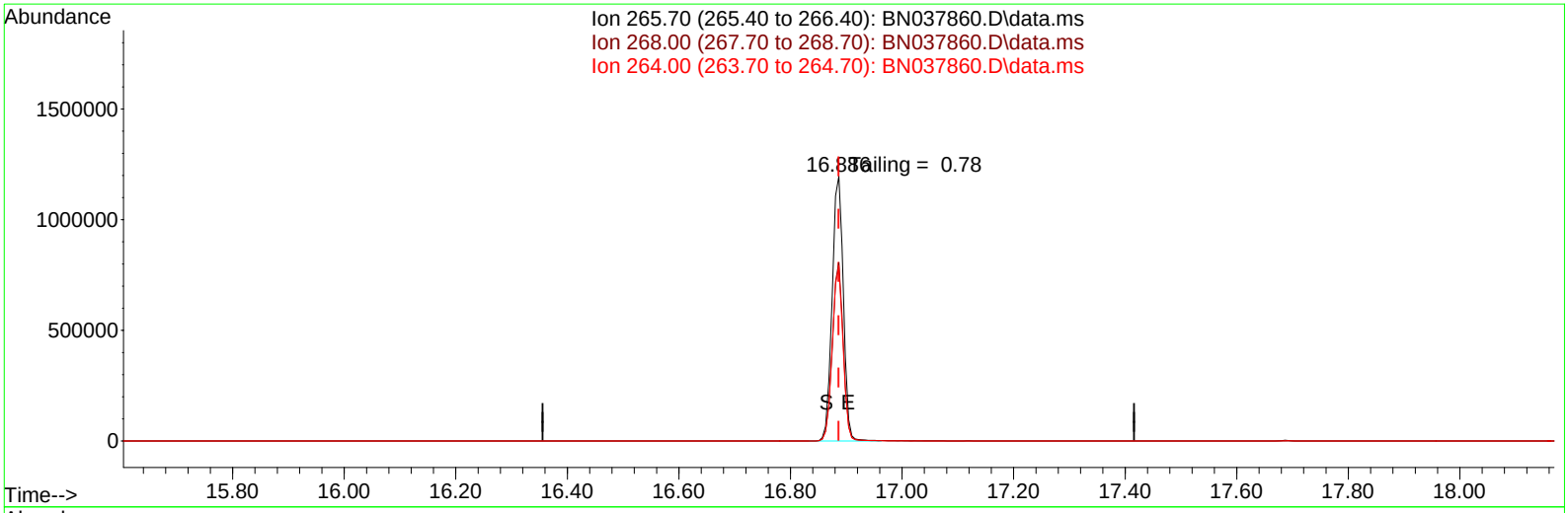
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.8	7592	PASS
69	69	100	100	100.0	410472	PASS
70	69	0.00	2	0.6	2535	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1043541	PASS
199	198	5	9	6.9	71928	PASS
365	198	1	100	4.2	43627	PASS
441	443	0.01	150	72.6	133917	PASS
442	442	100	100	100.0	886933	PASS
443	442	15	24	20.8	184525	PASS

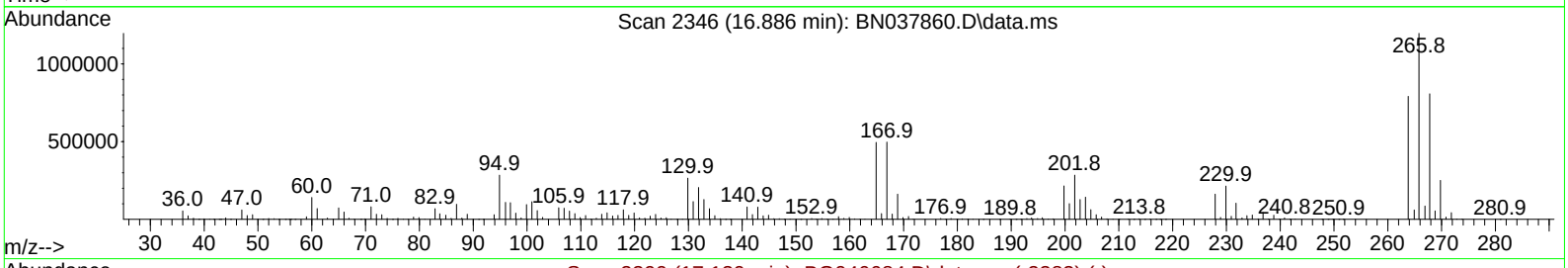
Sample Results: **BN037860.D**

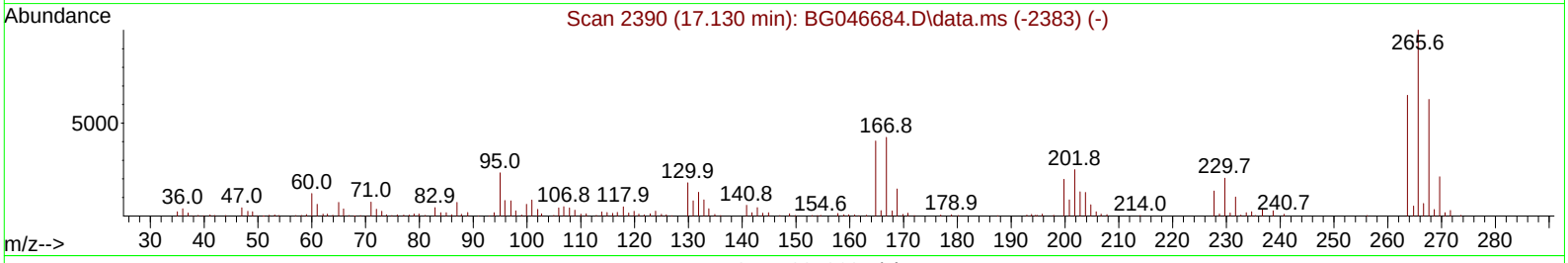
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037860.D
Acq On : 23 Sep 2025 11:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 23 19:20:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration







TIC: BN037860.D\data.ms

(70) Pentachlorophenol (C)

16.886min (+ 0.001) 30744.23 ng

response 1679260

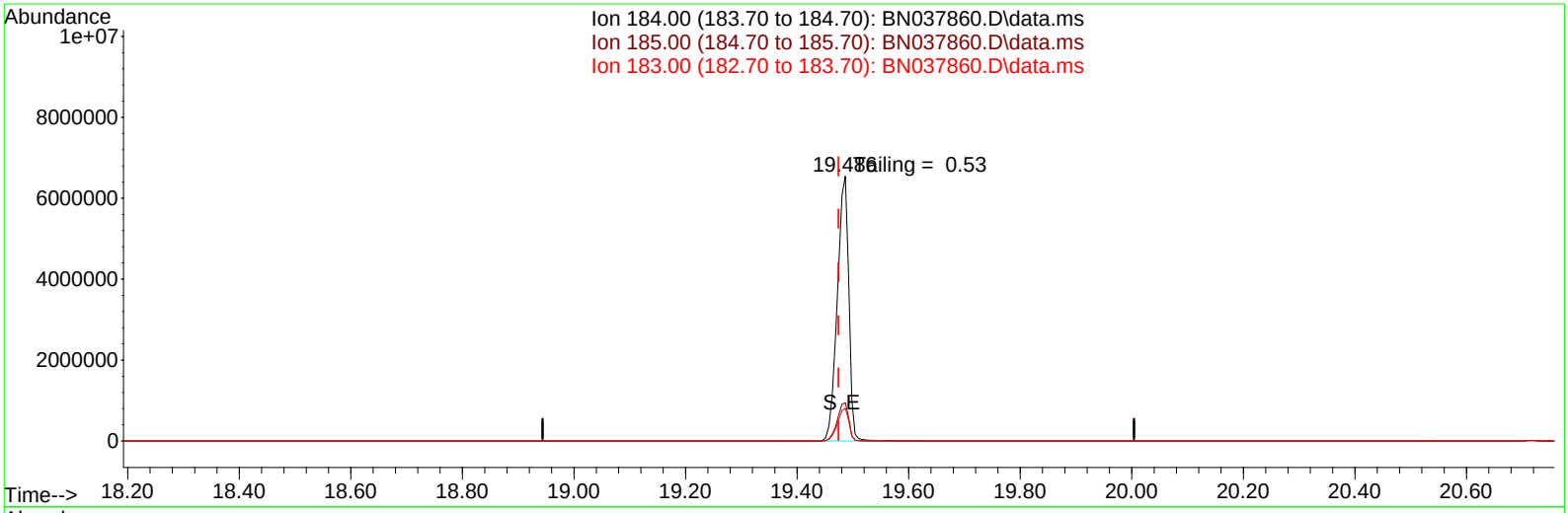
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	67.46
264.00	61.60	66.17
0.00	0.00	0.00

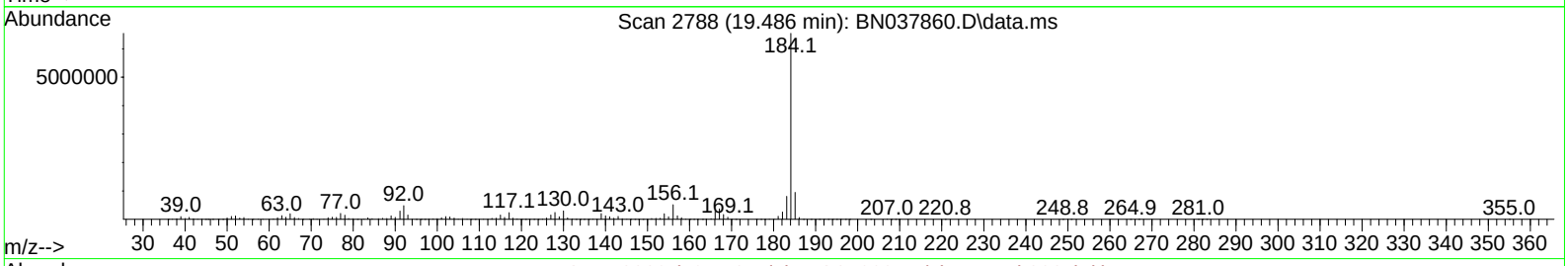
Sample Results: **BN037860.D**

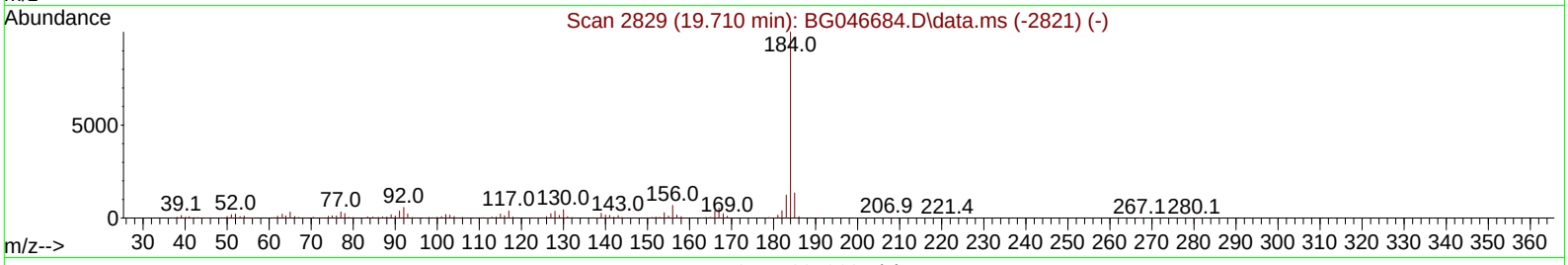
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037860.D
Acq On : 23 Sep 2025 11:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 23 19:20:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration







TIC: BN037860.D\data.ms

(77) Benzidine

19.486min (+ 0.012) 0.00 ng

response 9413593

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.50
183.00	13.20	12.37
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/23/2025	BNA_N	BN037860.D
Compound Name	**Response**	**Retention Time**
DDT	4305996	20.716
DDD	11703	20.327
DDE	258	19.769
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
11961	4317957	0.28

Instrument :
BNA_N
ClientSampleId :
DFTPP

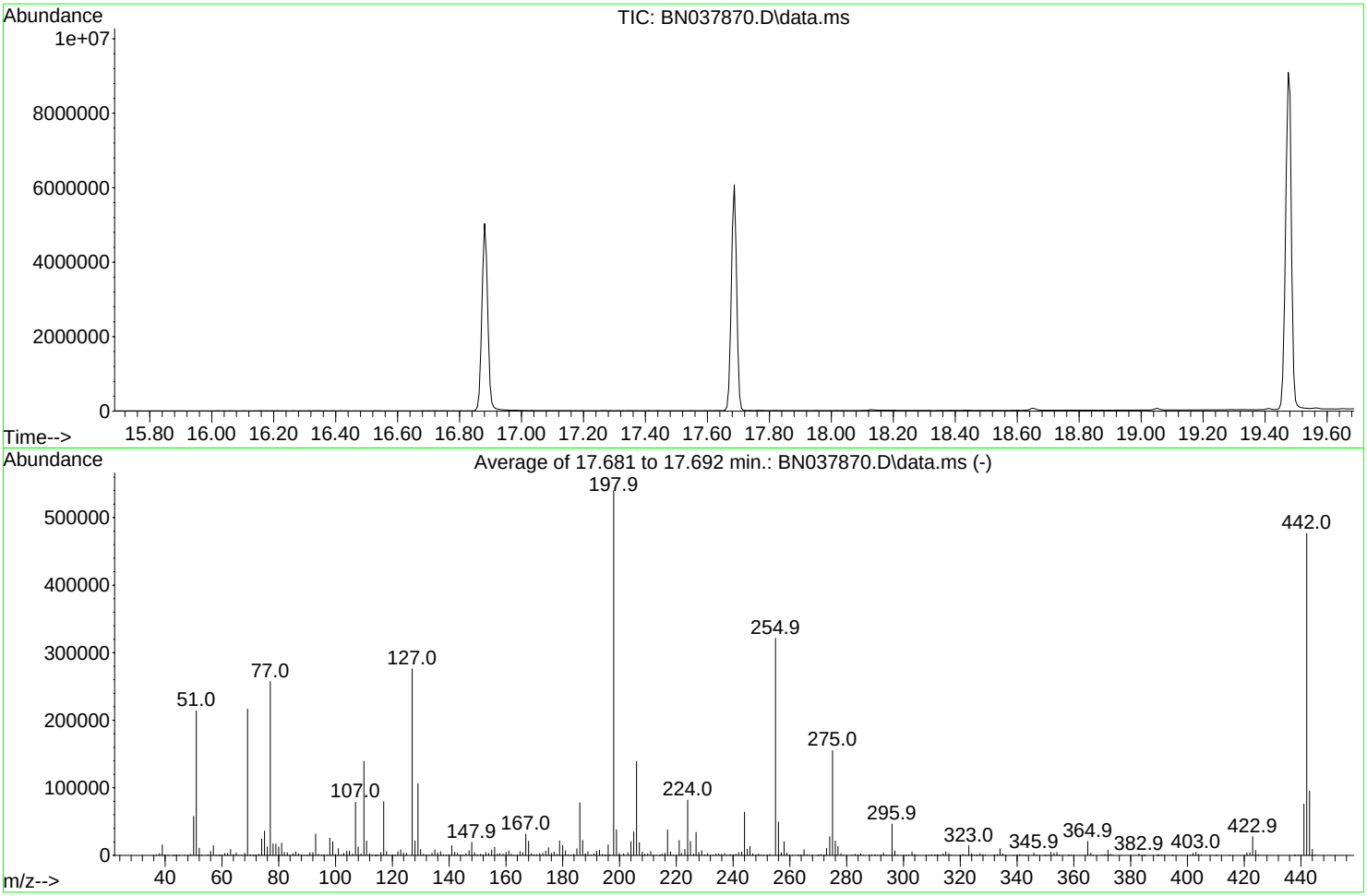
Sample Results: **BN037870.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037870.D
Acq On : 24 Sep 2025 09:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 24 11:00:01 2025



AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

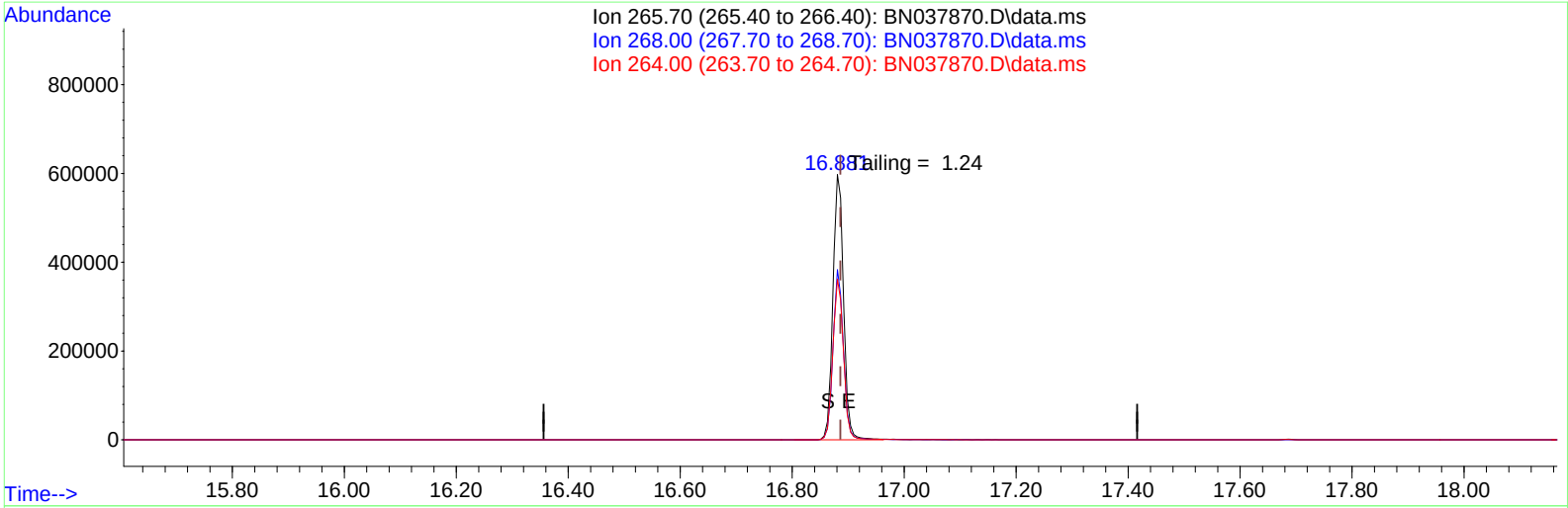
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.5	3143	PASS
69	69	100	100	100.0	216661	PASS
70	69	0.00	2	0.5	1168	PASS
197	198	0.00	2	0.2	839	PASS
198	198	100	100	100.0	539285	PASS
199	198	5	9	7.1	38096	PASS
365	198	1	100	3.8	20696	PASS
441	443	0.01	150	79.6	76072	PASS
442	442	100	100	100.0	476331	PASS
443	442	15	24	20.1	95557	PASS

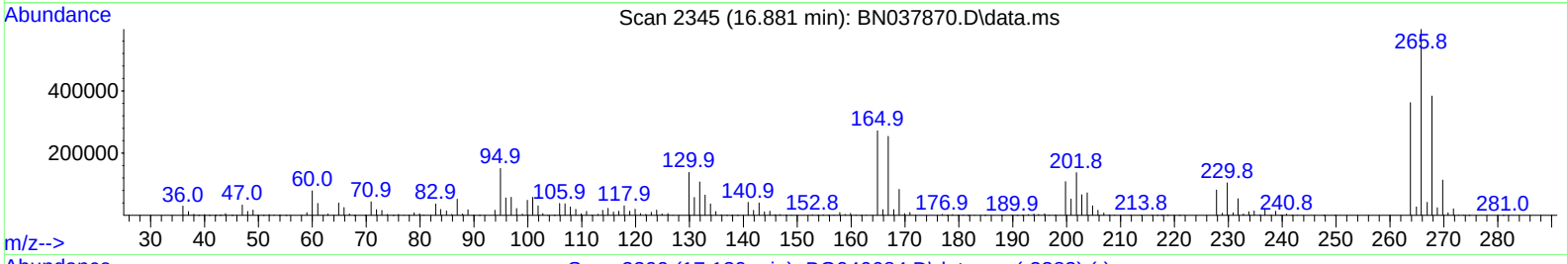
Sample Results: **BN037870.D**

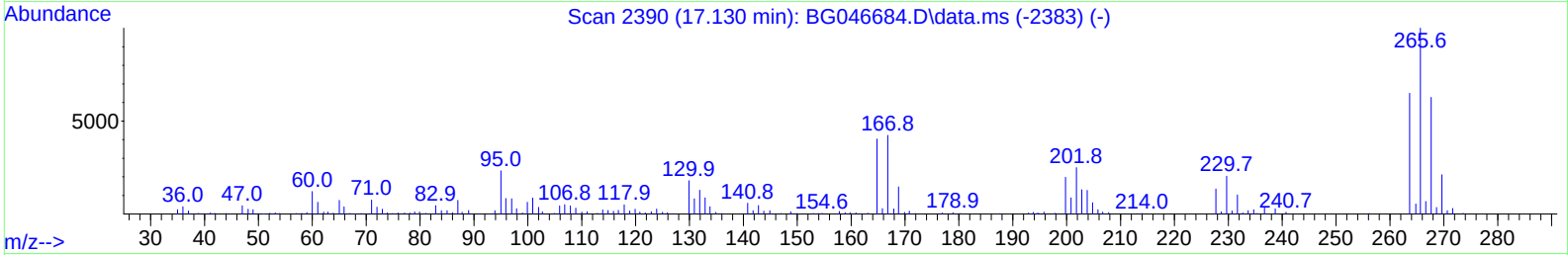
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037870.D
Acq On : 24 Sep 2025 09:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 24 11:37:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration







TIC: BN037870.D\data.ms

(70) Pentachlorophenol (C)

16.881min (-0.005) 29214.29 ng

response 795325

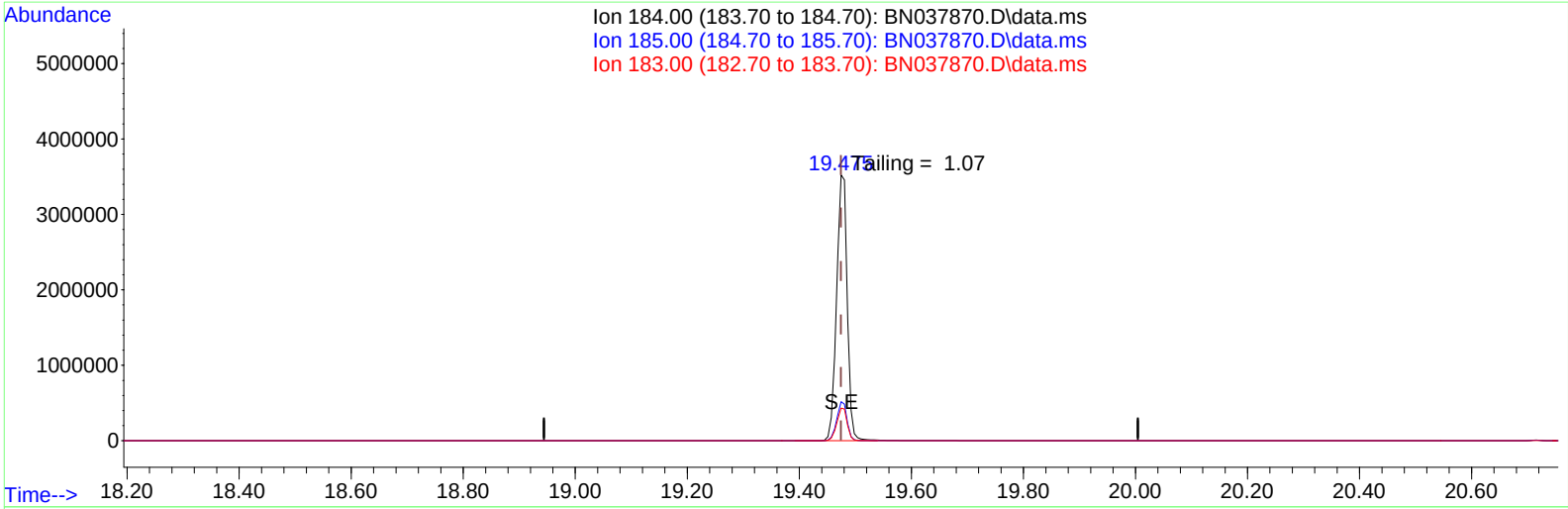
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.18
264.00	61.60	60.63
0.00	0.00	0.00

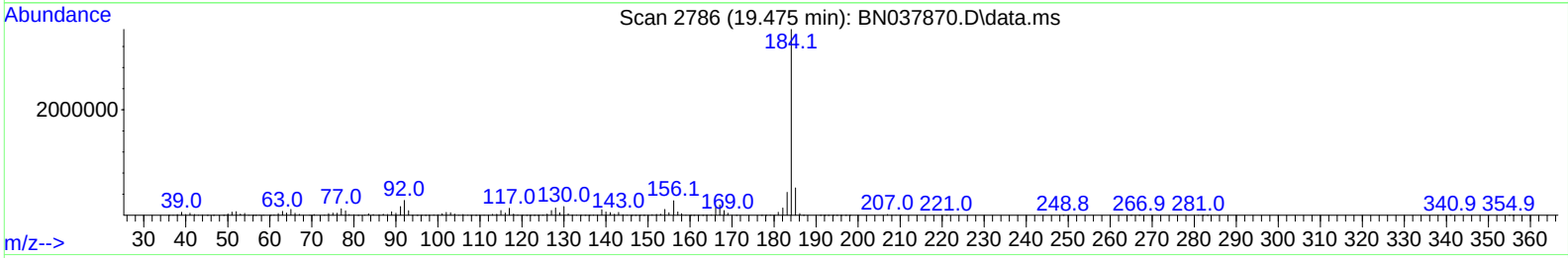
Sample Results: **BN037870.D**

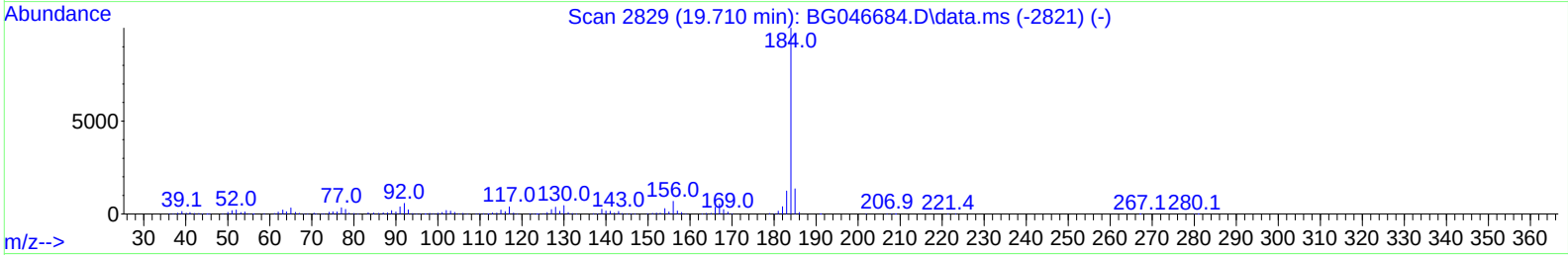
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037870.D
Acq On : 24 Sep 2025 09:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 24 11:37:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration







TIC: BN037870.D\data.ms

(77) Benzidine

19.475min (+ 0.001) 0.00 ng

response 4681423

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.71
183.00	13.20	12.33
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/24/2025	BNA_N	BN037870.D
Compound Name	**Response**	**Retention Time**
DDT	2091319	20.716
DDD	5093	20.328
DDE	153	19.769
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
5246	2096565	0.25

Instrument :
BNA_N
ClientSampleId :
DFTPP

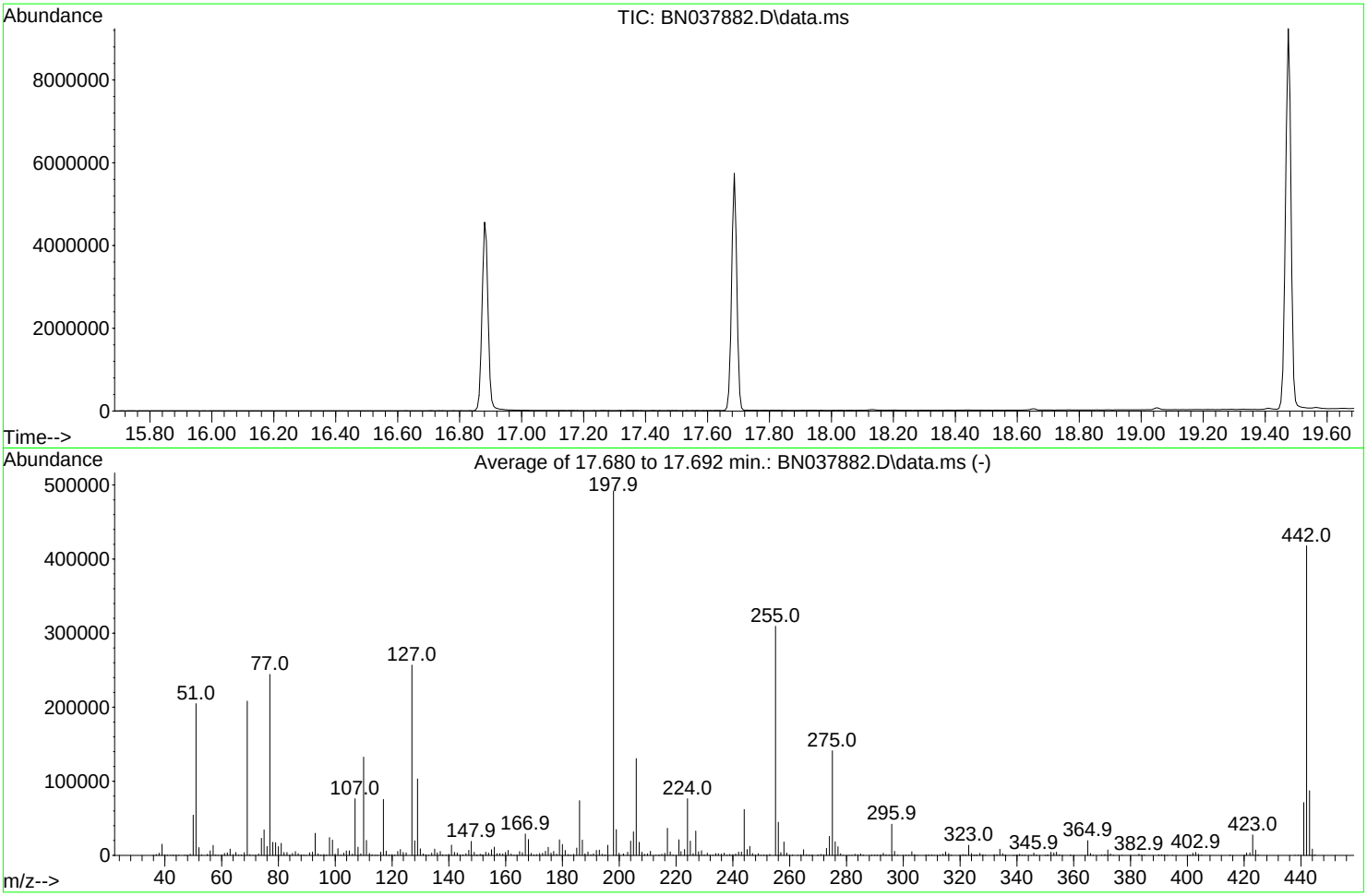
Sample Results: **BN037882.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037882.D
Acq On : 25 Sep 2025 10:52
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 24 11:00:01 2025



AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

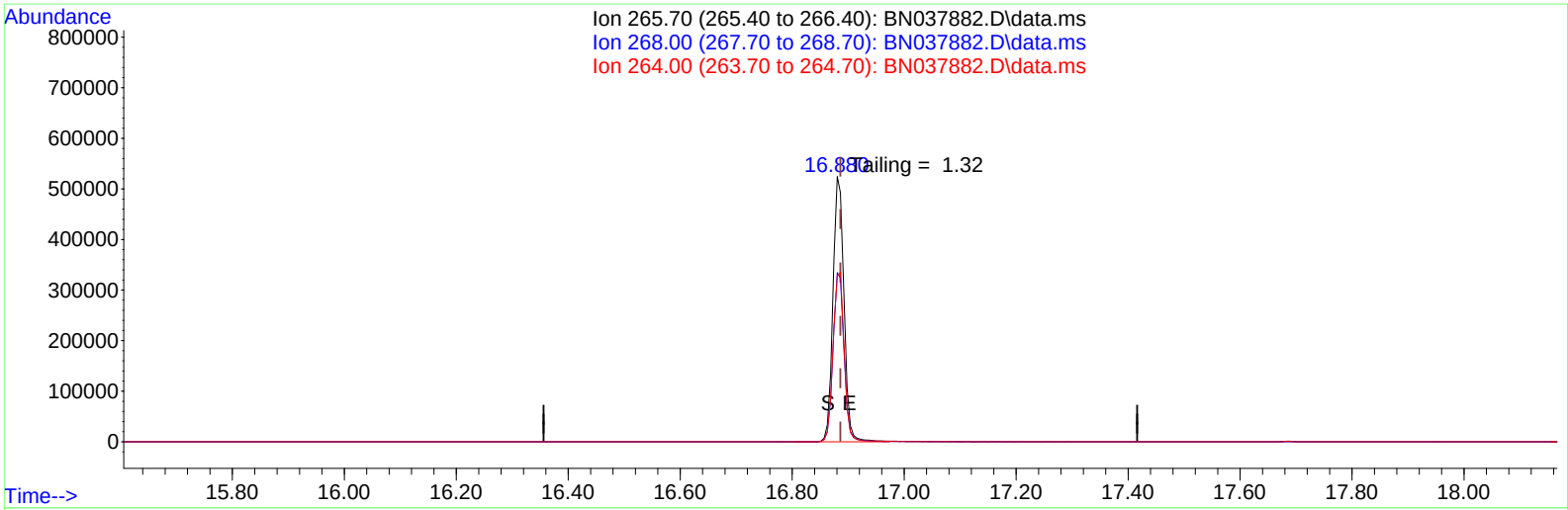
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.8	3756	PASS
69	69	100	100	100.0	208299	PASS
70	69	0.00	2	0.5	1072	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	491925	PASS
199	198	5	9	7.1	34720	PASS
365	198	1	100	4.0	19900	PASS
441	443	0.01	150	81.7	71253	PASS
442	442	100	100	100.0	417920	PASS
443	442	15	24	20.9	87163	PASS

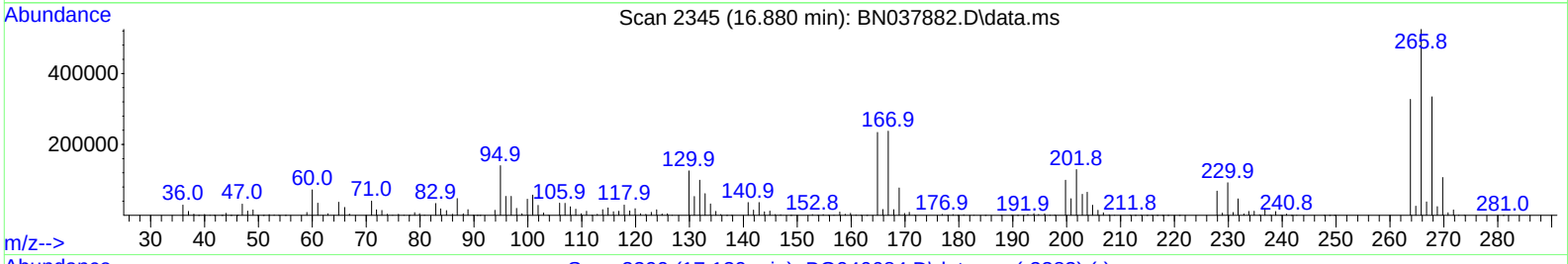
Sample Results: **BN037882.D**

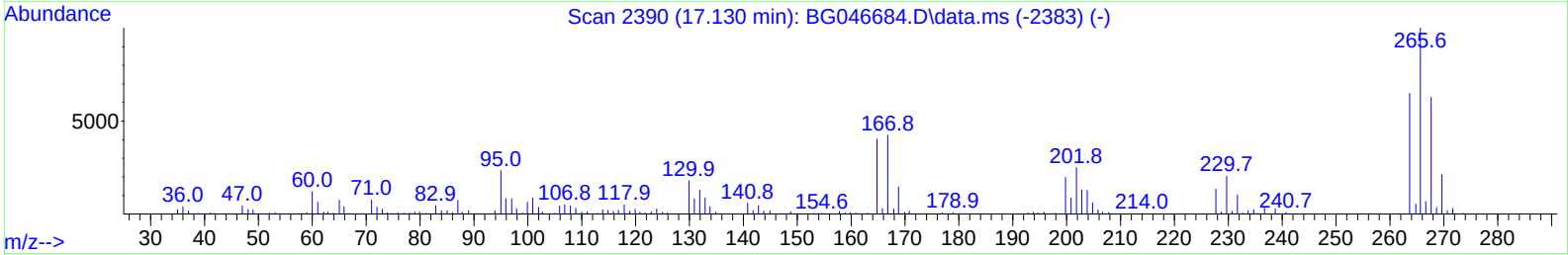
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037882.D
Acq On : 25 Sep 2025 10:52
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 25 13:12:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration







TIC: BN037882.D\data.ms

(70) Pentachlorophenol (C)

16.880min (-0.006) 31548.12 ng

response 718482

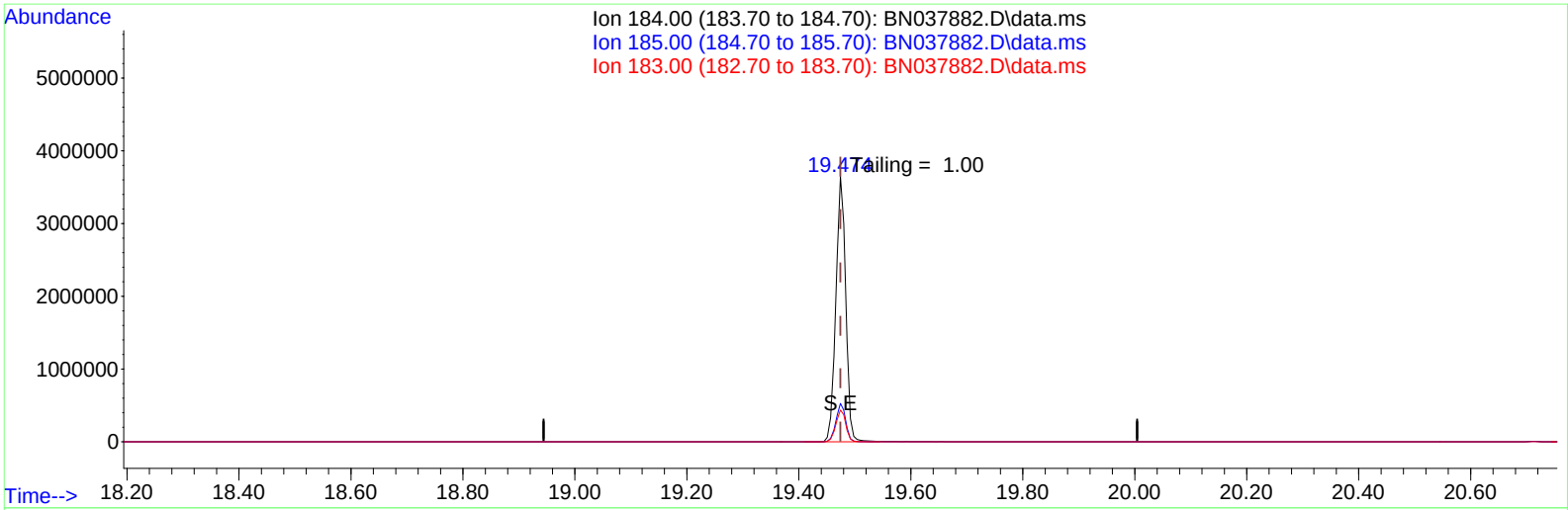
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.80
264.00	61.60	62.36
0.00	0.00	0.00

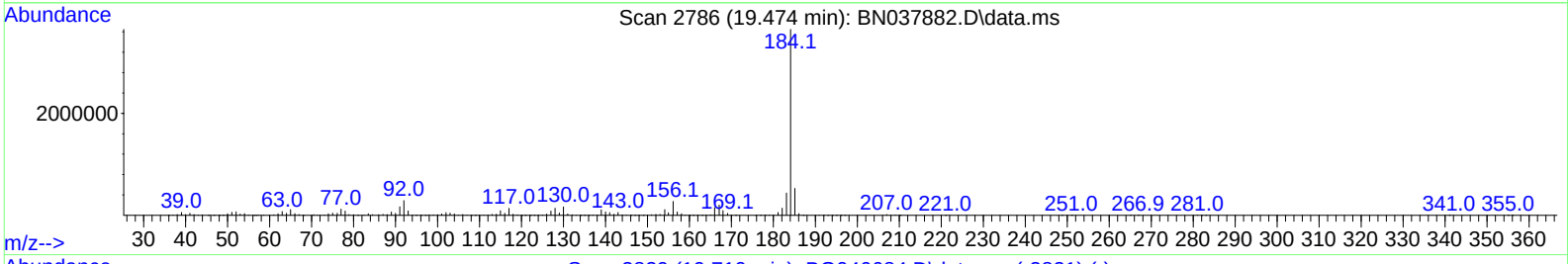
Sample Results: **BN037882.D**

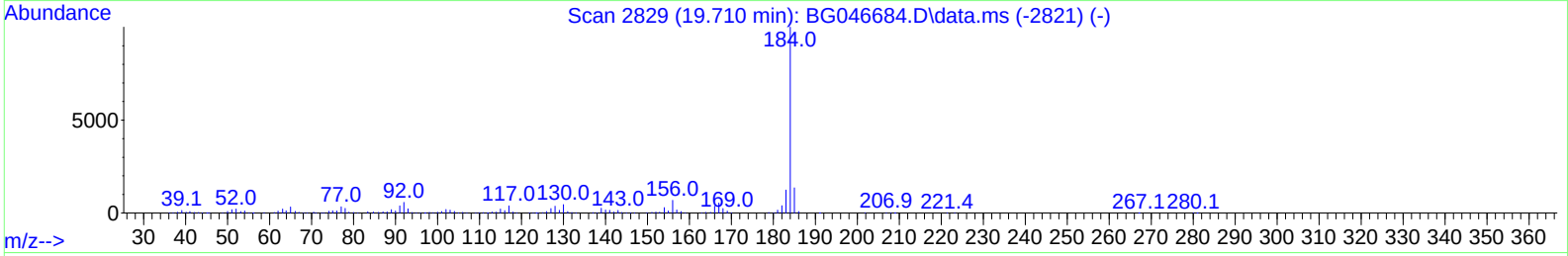
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037882.D
Acq On : 25 Sep 2025 10:52
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 25 13:12:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration







TIC: BN037882.D\data.ms

(77) Benzidine

19.474min (+ 0.000) 0.00 ng

response 4502688

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.51
183.00	13.20	12.03
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/25/2025	BNA_N	BN037882.D
Compound Name	**Response**	**Retention Time**
DDT	1891737	20.716
DDD	7741	20.327
DDE	257	19.769
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
7998	1899735	0.42

Instrument :
BNA_N
ClientSampleId :
DFTPP

Raw Data: **BN037777.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB169693BL	SDG No.:	Q3097
Lab Sample ID:	PB169693BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037777.D	1	09/15/25 12:00	09/18/25 15:10	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		80%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6670	7.84				
1146-65-2	Naphthalene-d8	17000	10.637				
15067-26-2	Acenaphthene-d10	7050	14.484				
1517-22-2	Phenanthrene-d10	11700	17.236				
1719-03-5	Chrysene-d12	9220	21.411				
1520-96-3	Perylene-d12	9000	23.75				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037777.D
Acq On : 18 Sep 2025 15:10
Operator : RC/JU
Sample : PB169693BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169693BL

Quant Time: Sep 18 15:49:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

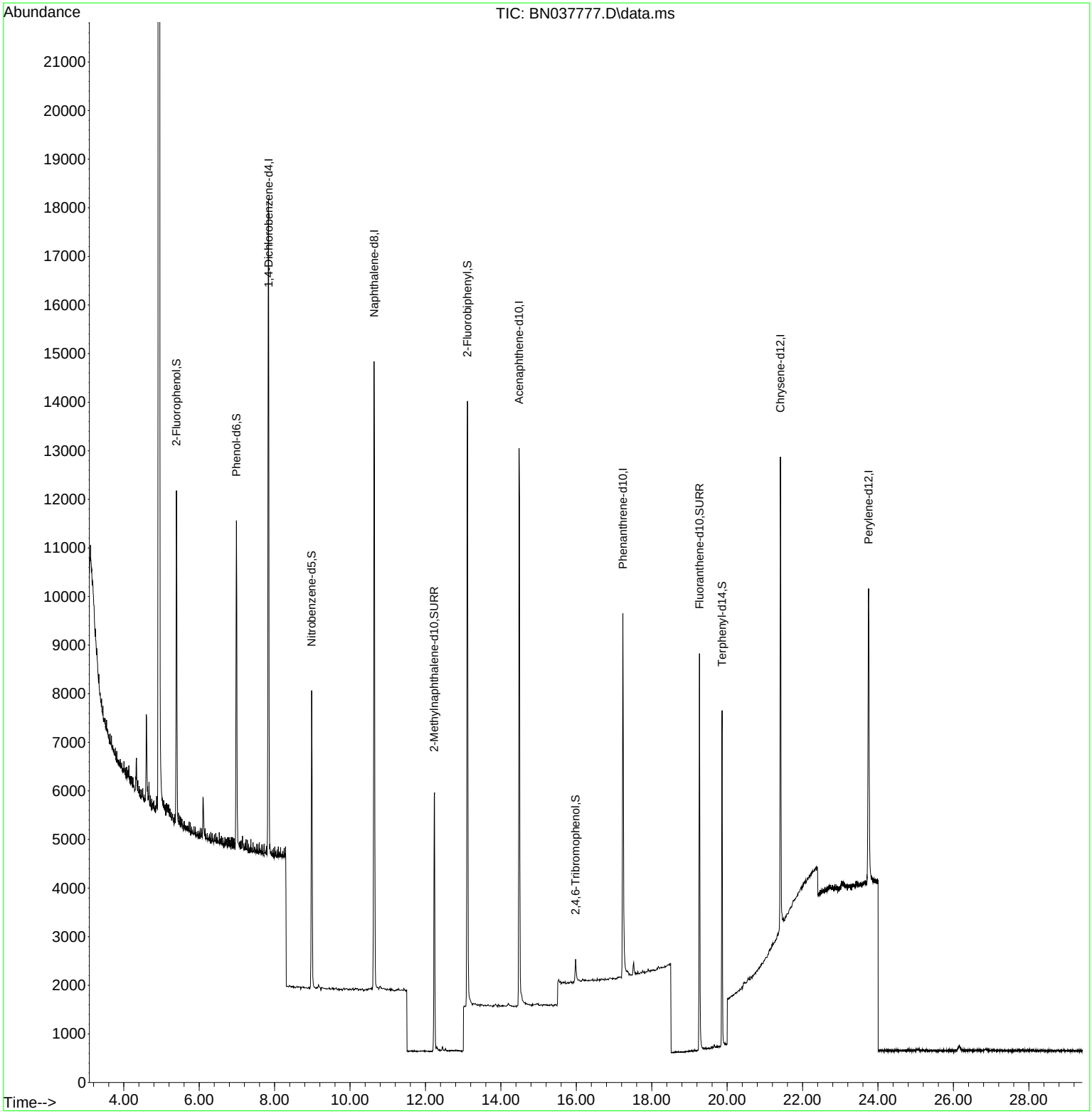
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	6667	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	17045	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7049	0.400	ng	-0.01
19) Phenanthrene-d10	17.236	188	11652	0.400	ng	0.00
29) Chrysene-d12	21.411	240	9221	0.400	ng	# 0.00
35) Perylene-d12	23.750	264	9002	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	5270	0.344	ng	0.00
5) Phenol-d6	6.988	99	6284	0.317	ng	0.00
8) Nitrobenzene-d5	8.982	82	4777	0.383	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	7427	0.329	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	384	0.209	ng	0.00
15) 2-Fluorobiphenyl	13.116	172	11632	0.395	ng	0.00
27) Fluoranthene-d10	19.267	212	9319	0.319	ng	0.00
31) Terphenyl-d14	19.866	244	6747	0.361	ng	0.00
Target Compounds						Qvalue

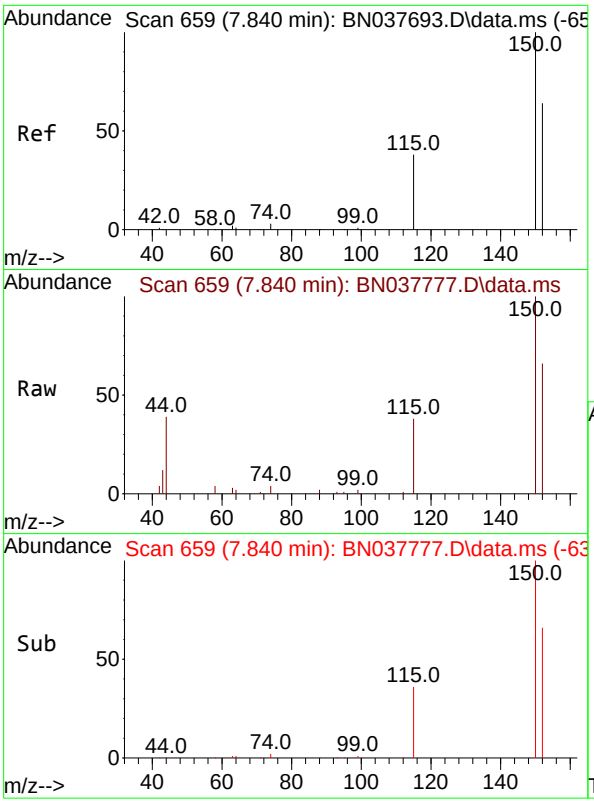
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037777.D
Acq On : 18 Sep 2025 15:10
Operator : RC/JU
Sample : PB169693BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169693BL

Quant Time: Sep 18 15:49:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



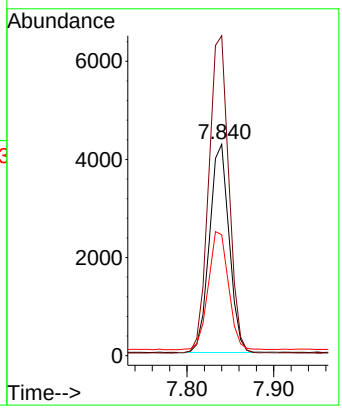


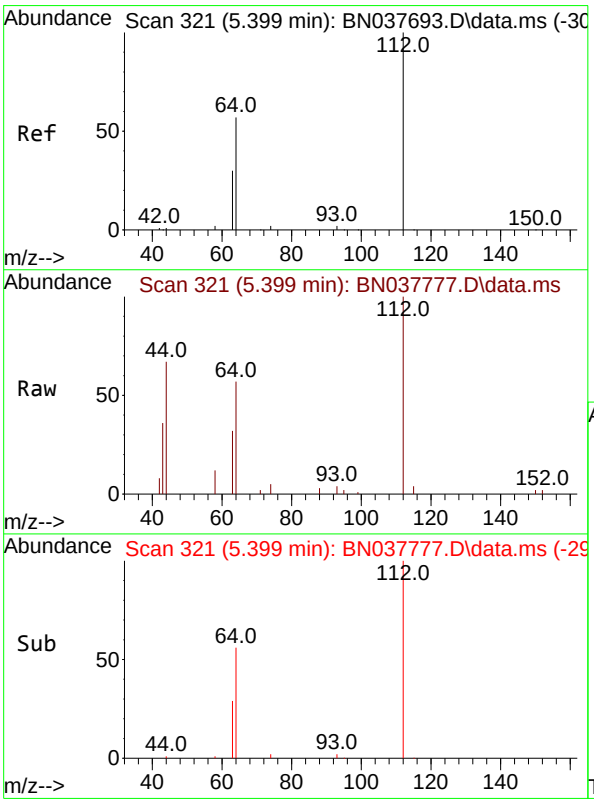
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Instrument :
BNA_N
ClientSampleId :
PB169693BL

Tgt Ion:152 Resp: 6667

Ion	Ratio	Lower	Upper
152	100		
150	151.3	124.5	186.7
115	57.2	49.2	73.8

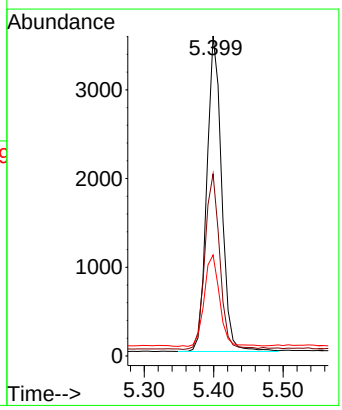


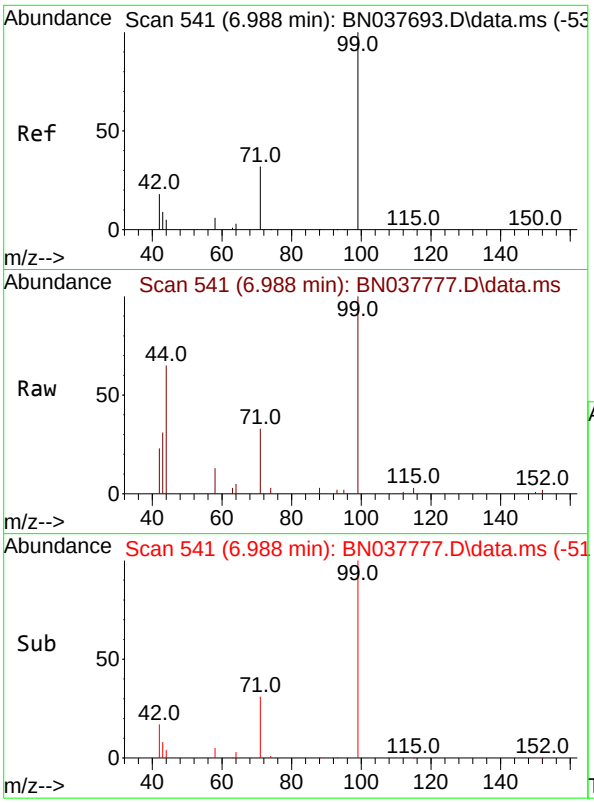


#4
2-Fluorophenol
Concen: 0.344 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:112 Resp: 5270

Ion	Ratio	Lower	Upper
112	100		
64	55.6	44.9	67.3
63	30.1	24.7	37.1



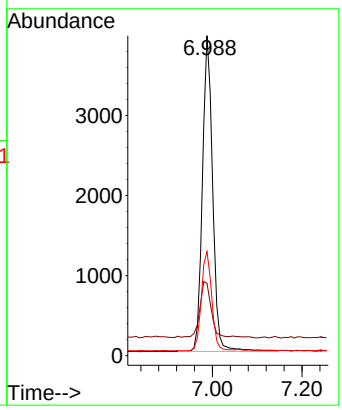


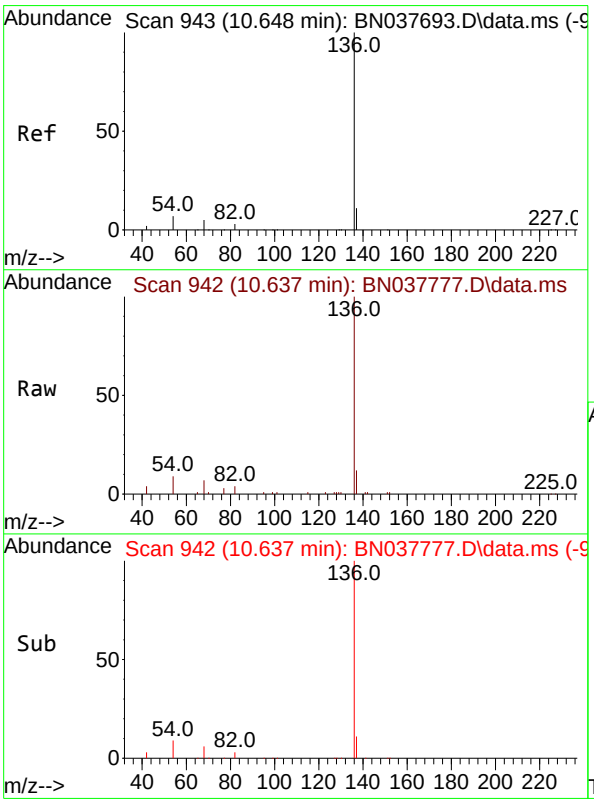
#5
Phenol-d6
Concen: 0.317 ng
RT: 6.988 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Instrument :
BNA_N
ClientSampleId :
PB169693BL

Tgt Ion: 99 Resp: 6284

Ion	Ratio	Lower	Upper
99	100		
42	19.0	16.6	24.8
71	31.6	26.7	40.1

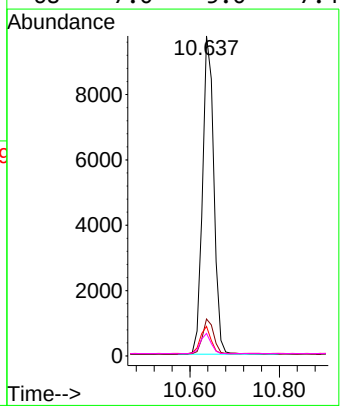


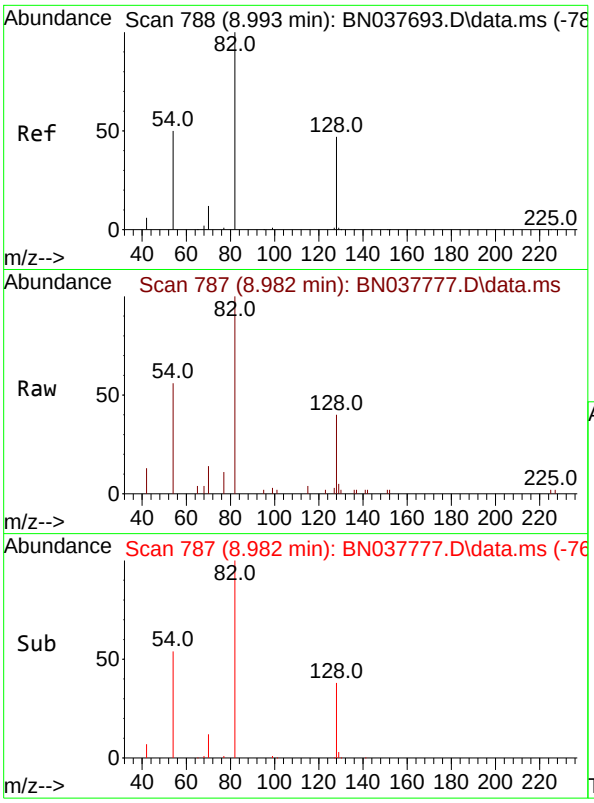


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:136 Resp: 17045

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	9.3	6.3	9.5
68	7.0	5.0	7.4



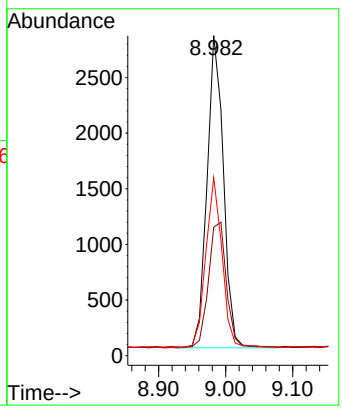


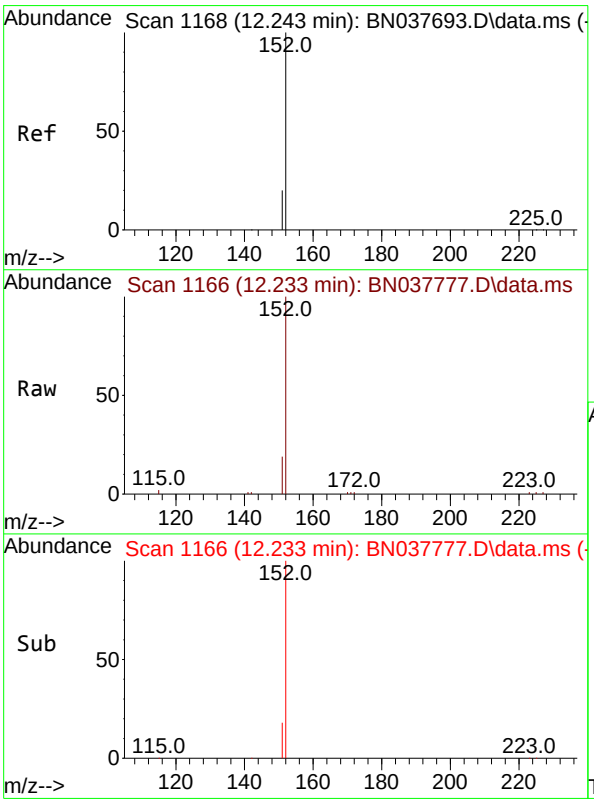
#8
Nitrobenzene-d5
Concen: 0.383 ng
RT: 8.982 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Instrument :
BNA_N
ClientSampleId :
PB169693BL

Tgt Ion: 82 Resp: 4777

Ion	Ratio	Lower	Upper
82	100		
128	40.2	38.3	57.5
54	55.6	41.4	62.2

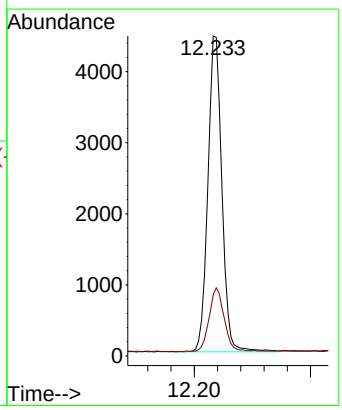


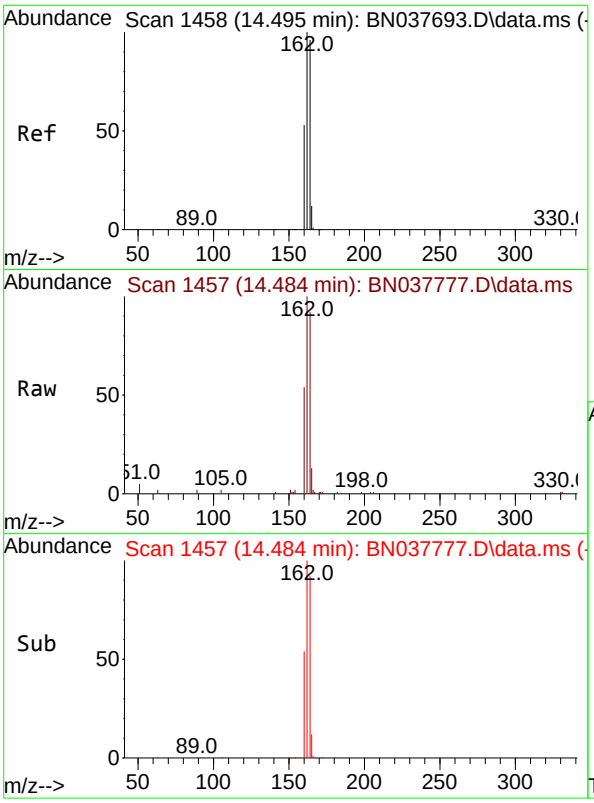


#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:152 Resp: 7427

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6



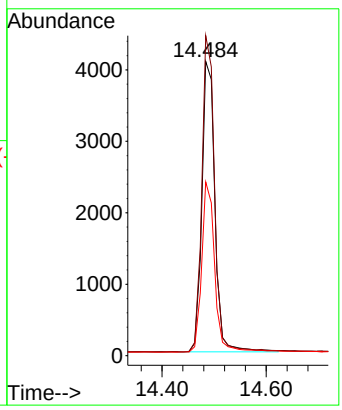


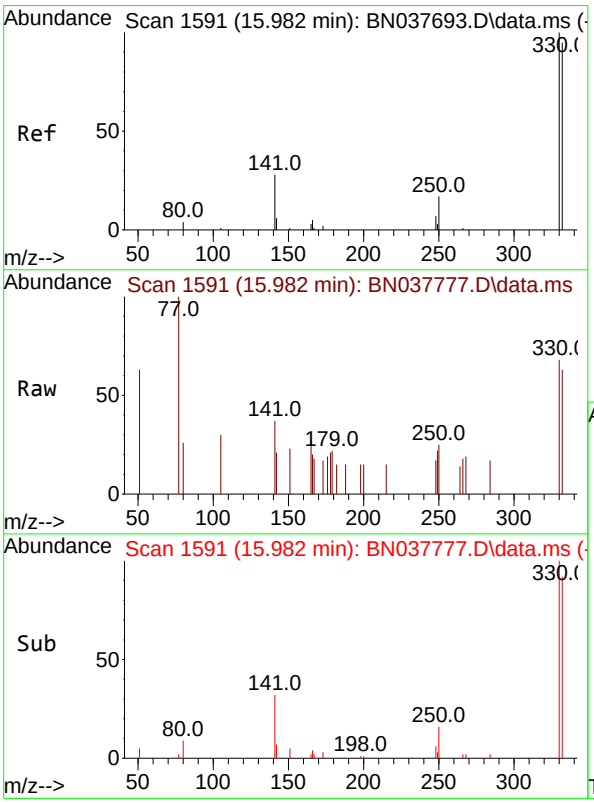
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Instrument :
BNA_N
ClientSampleId :
PB169693BL

Tgt Ion:164 Resp: 7049

Ion	Ratio	Lower	Upper
164	100		
162	108.8	83.1	124.7
160	59.1	44.3	66.5

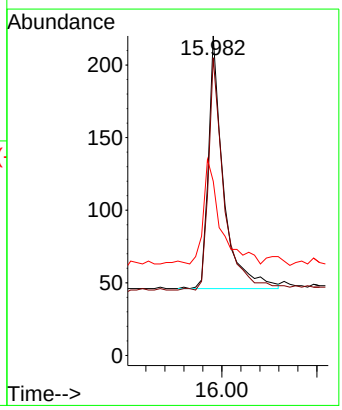


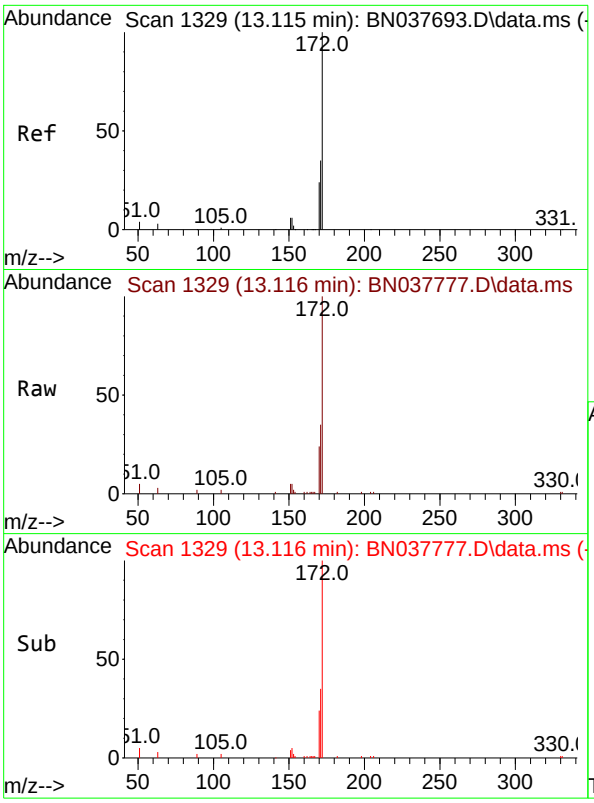


#14
2,4,6-Tribromophenol
Concen: 0.209 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:330 Resp: 384

Ion	Ratio	Lower	Upper
330	100		
332	94.0	75.3	112.9
141	46.1	35.0	52.4



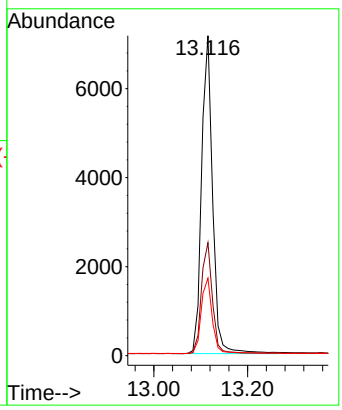


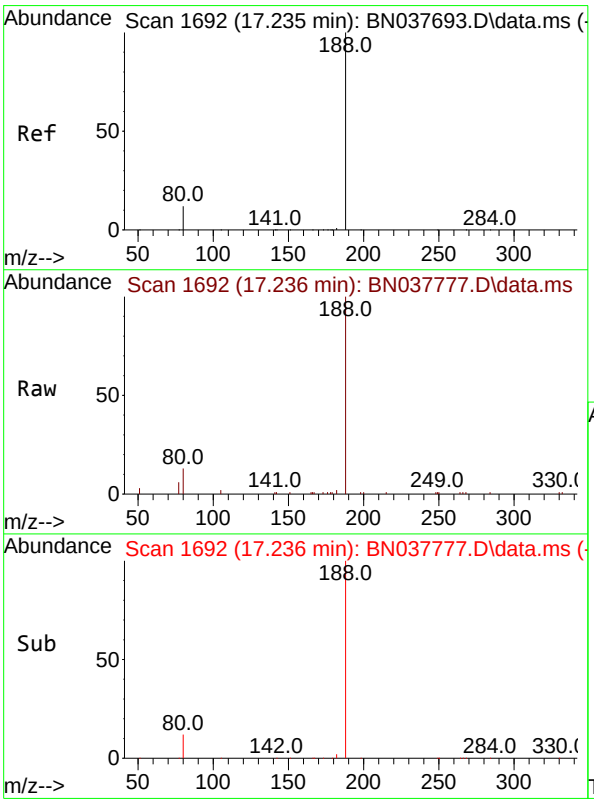
#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 13.116 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Instrument :
BNA_N
ClientSampleId :
PB169693BL

Tgt Ion:172 Resp: 11632

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	24.2	19.8	29.8

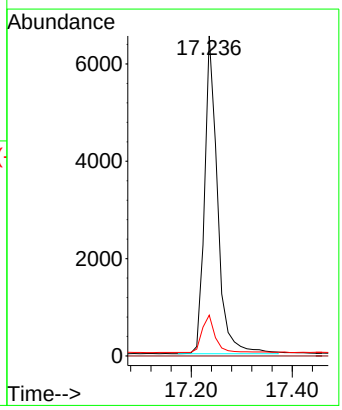


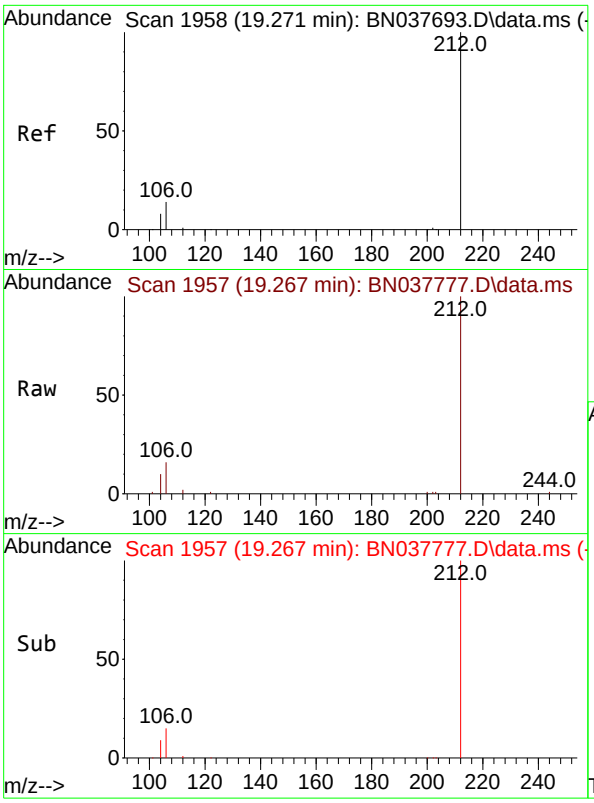


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:188 Resp: 11652

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.7	10.6	15.8



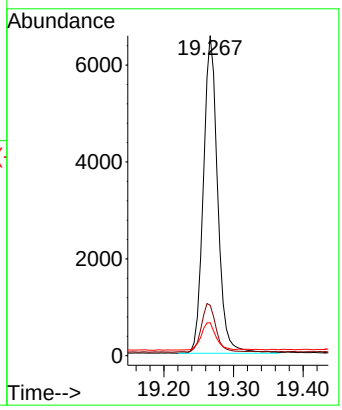


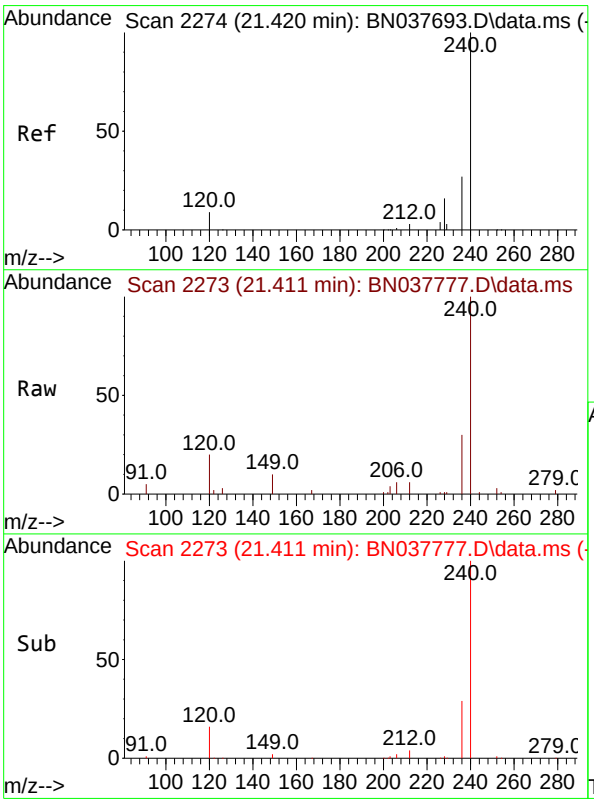
#27
Fluoranthene-d10
Concen: 0.319 ng
RT: 19.267 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Instrument :
BNA_N
ClientSampleId :
PB169693BL

Tgt Ion:212 Resp: 9319

Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	8.9	6.9	10.3

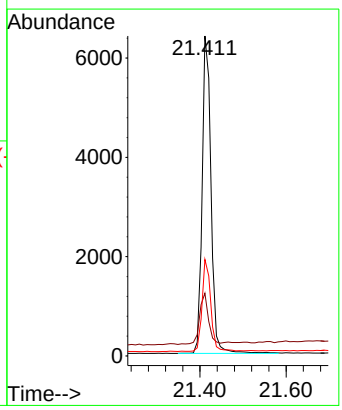


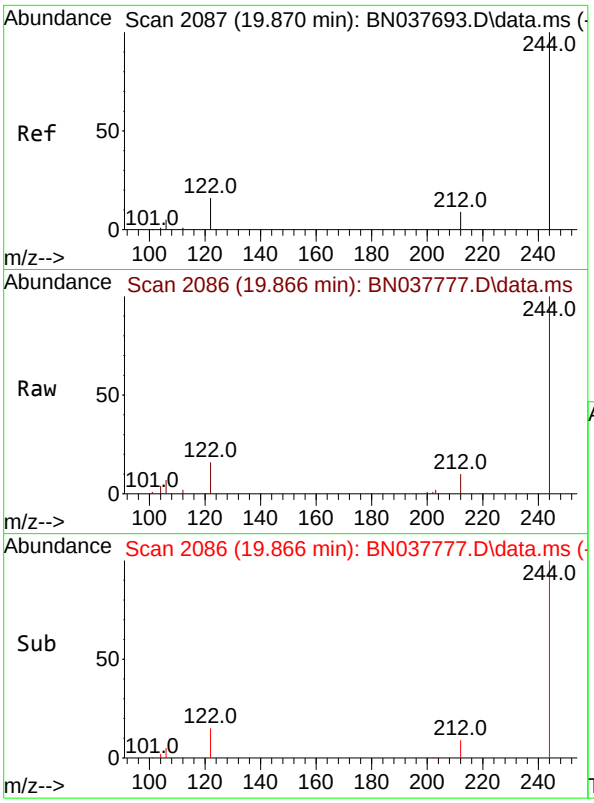


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:240 Resp: 9221

Ion	Ratio	Lower	Upper
240	100		
120	19.6	9.2	13.8#
236	30.1	22.6	33.8



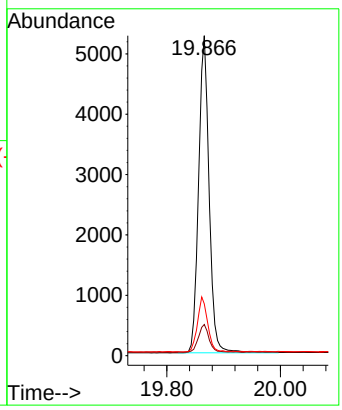


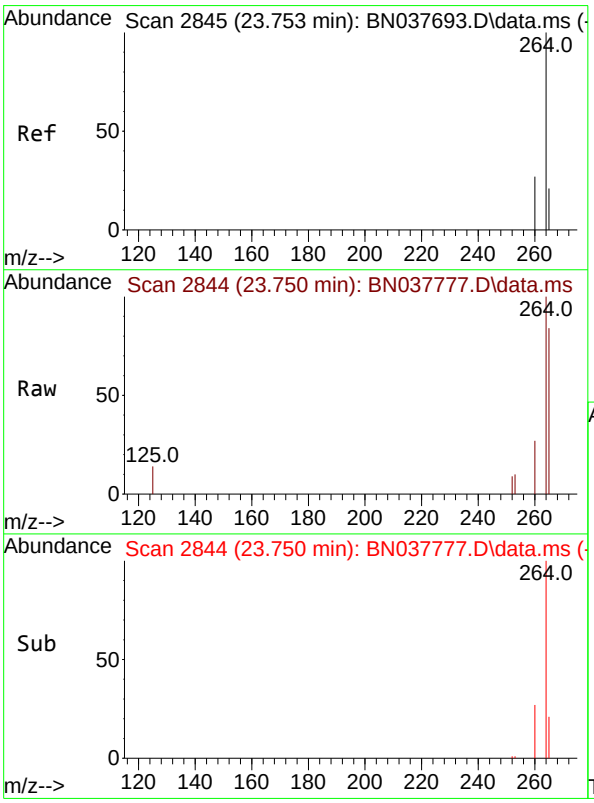
#31
Terphenyl-d14
Concen: 0.361 ng
RT: 19.866 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Instrument :
BNA_N
ClientSampleId :
PB169693BL

Tgt Ion:244 Resp: 6747

Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.5	11.3
122	16.2	13.2	19.8

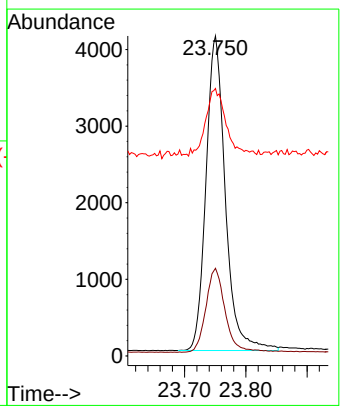




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 2844
Delta R.T. -0.003 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:264 Resp: 9002

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.8	32.8
265	83.6	39.4	59.2#



Raw Data: **BN037872.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB169712BL	SDG No.:	Q3097
Lab Sample ID:	PB169712BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037872.D	1	09/16/25 09:39	09/24/25 10:32	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		89%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6890	7.826				
1146-65-2	Naphthalene-d8	18300	10.626				
15067-26-2	Acenaphthene-d10	8440	14.473				
1517-22-2	Phenanthrene-d10	16600	17.223				
1719-03-5	Chrysene-d12	13500	21.402				
1520-96-3	Perylene-d12	12200	23.733				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037872.D
Acq On : 24 Sep 2025 10:32
Operator : RC/JU
Sample : PB169712BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169712BL

Quant Time: Sep 24 11:11:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

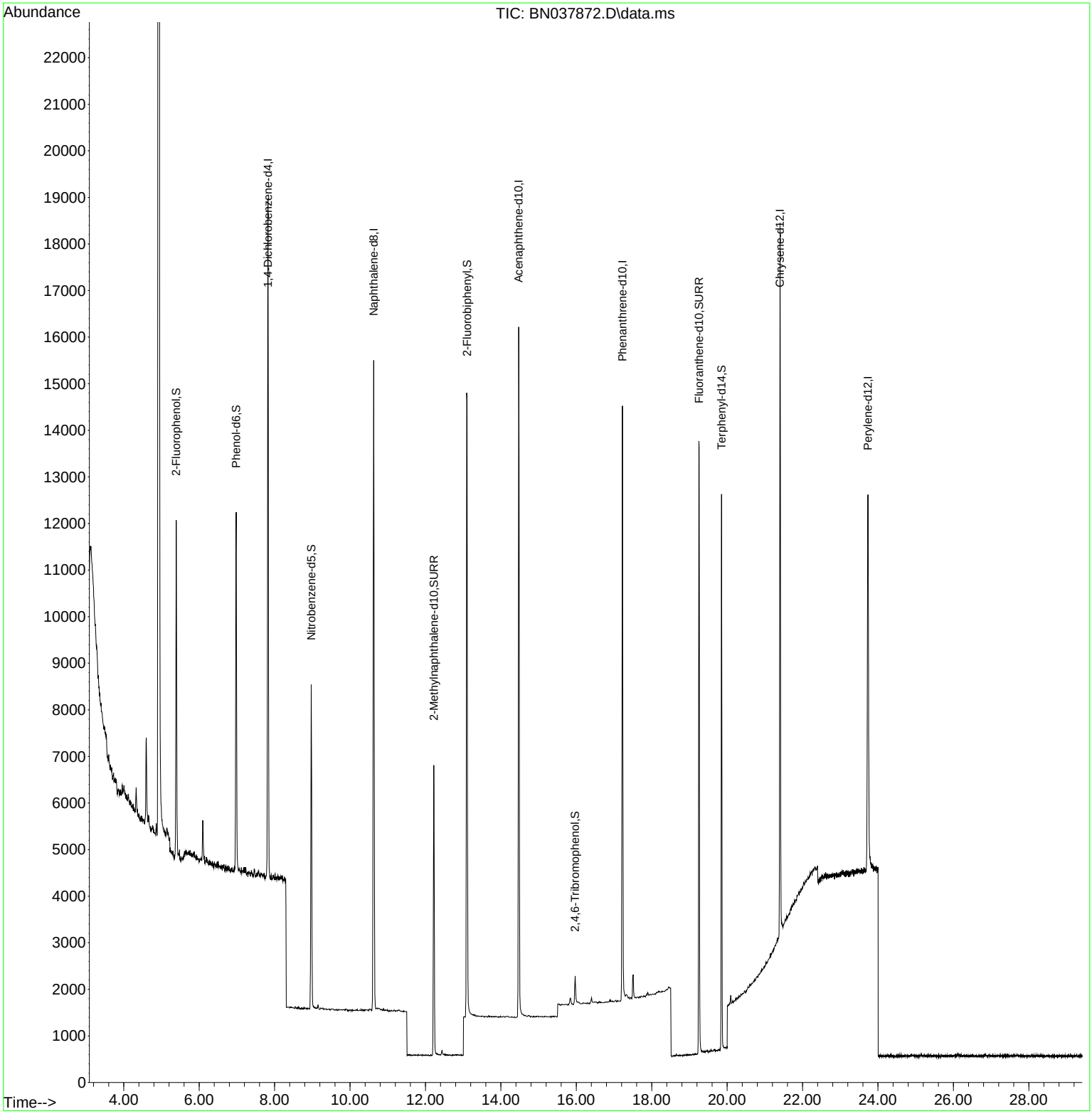
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	6892	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	18348	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8435	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16554	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13474	0.400	ng	0.00
35) Perylene-d12	23.733	264	12150	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5578	0.355	ng	0.00
5) Phenol-d6	6.981	99	7183	0.348	ng	0.00
8) Nitrobenzene-d5	8.971	82	5321	0.380	ng	0.00
11) 2-Methylnaphthalene-d10	12.223	152	8254	0.324	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	405	0.127	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	13344	0.386	ng	0.01
27) Fluoranthene-d10	19.257	212	14829	0.356	ng	0.00
31) Terphenyl-d14	19.852	244	10869	0.405	ng	0.00
Target Compounds						Qvalue

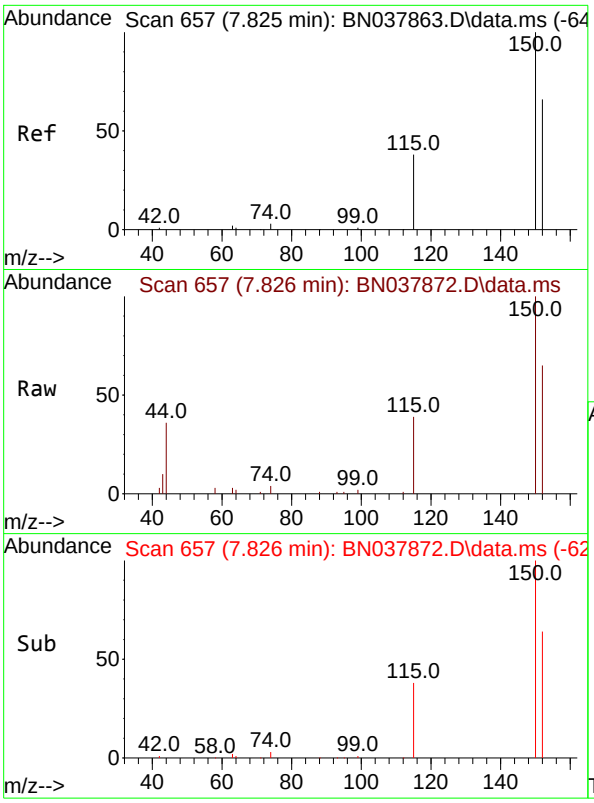
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037872.D
Acq On : 24 Sep 2025 10:32
Operator : RC/JU
Sample : PB169712BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169712BL

Quant Time: Sep 24 11:11:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



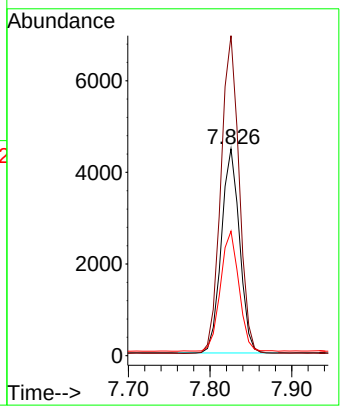


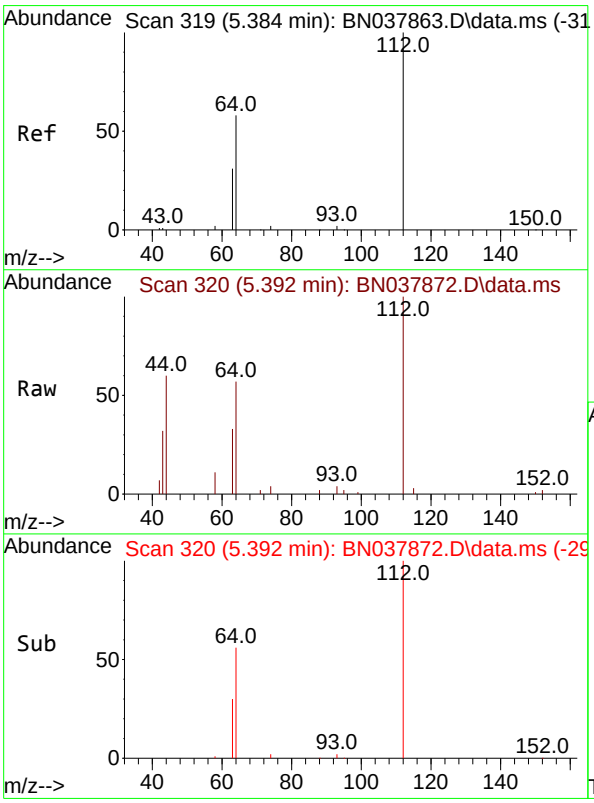
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 6
Delta R.T. 0.001 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
PB169712BL

Tgt Ion:152 Resp: 6892

Ion	Ratio	Lower	Upper
152	100		
150	154.7	121.0	181.4
115	60.1	47.4	71.0

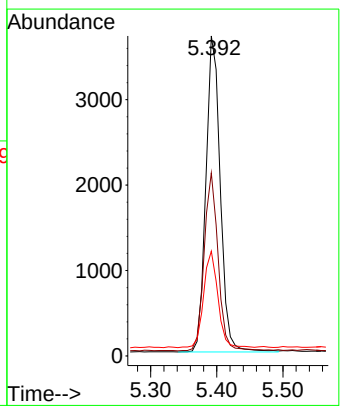


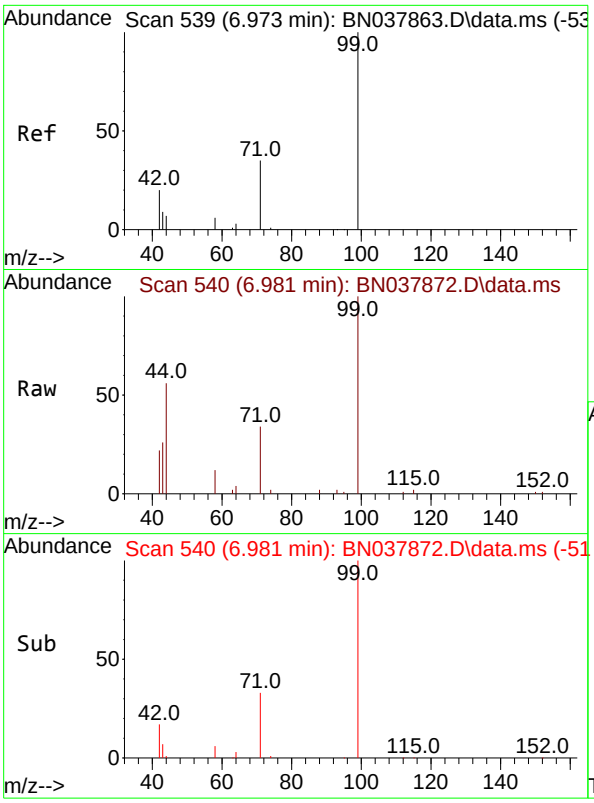


#4
2-Fluorophenol
Concen: 0.355 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion:112 Resp: 5578

Ion	Ratio	Lower	Upper
112	100		
64	55.1	44.6	66.8
63	30.2	24.9	37.3



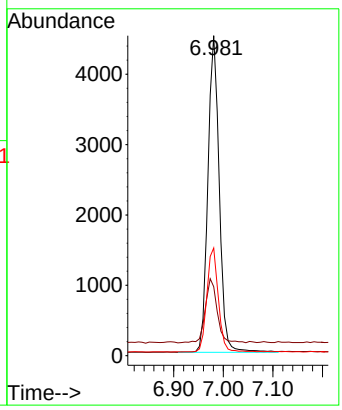


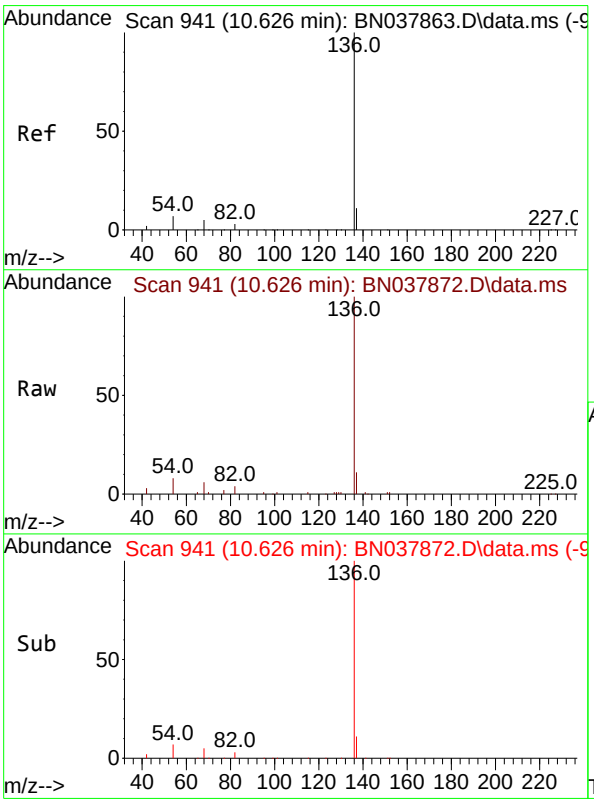
#5
Phenol-d6
Concen: 0.348 ng
RT: 6.981 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
PB169712BL

Tgt Ion: 99 Resp: 7183

Ion	Ratio	Lower	Upper
99	100		
42	21.1	17.2	25.8
71	33.2	27.3	40.9

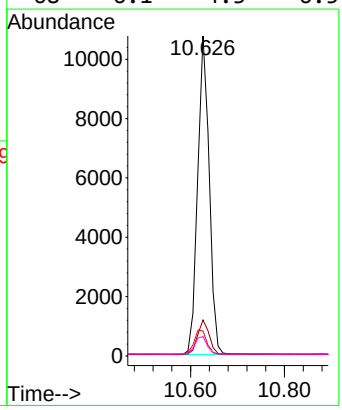


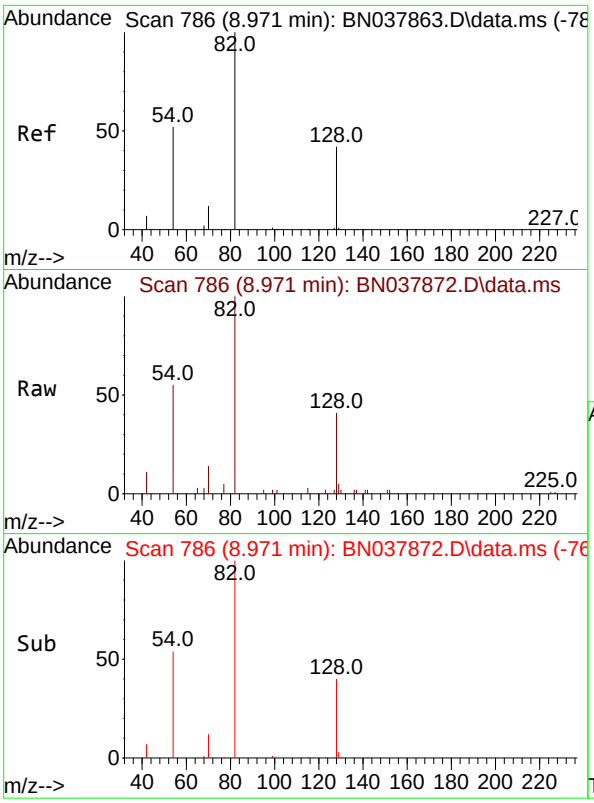


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion:136 Resp: 18348

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	7.8	5.8	8.8
68	6.1	4.3	6.5



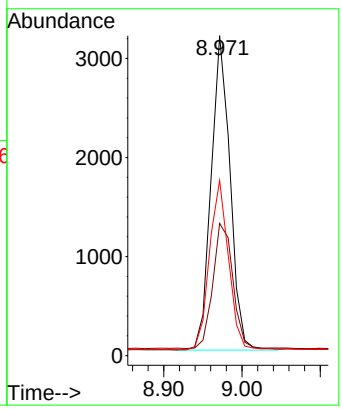


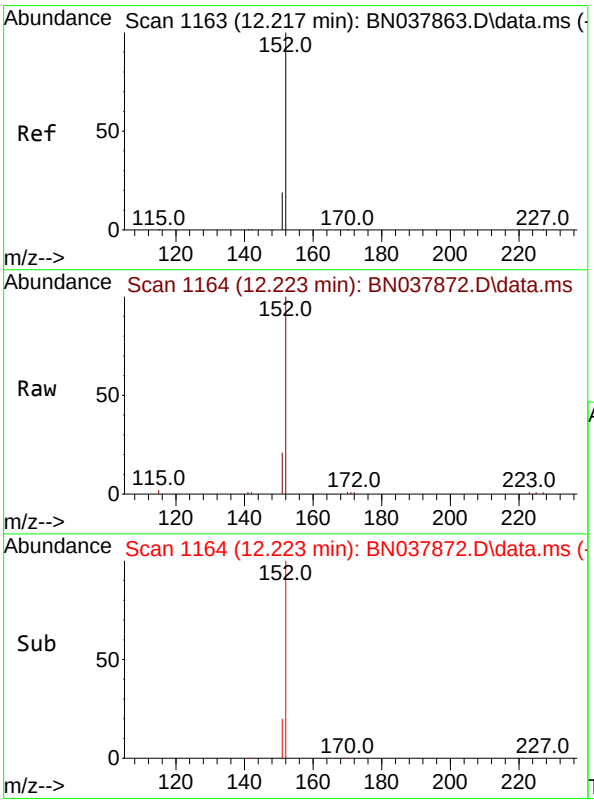
#8
Nitrobenzene-d5
Concen: 0.380 ng
RT: 8.971 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
PB169712BL

Tgt Ion: 82 Resp: 5321

Ion	Ratio	Lower	Upper
82	100		
128	41.3	34.8	52.2
54	54.8	42.2	63.2

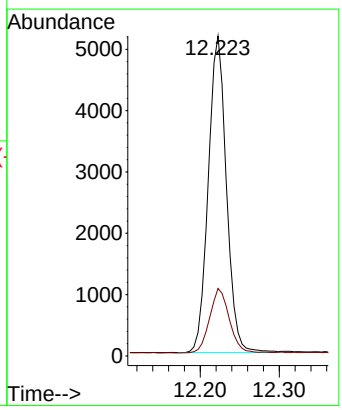


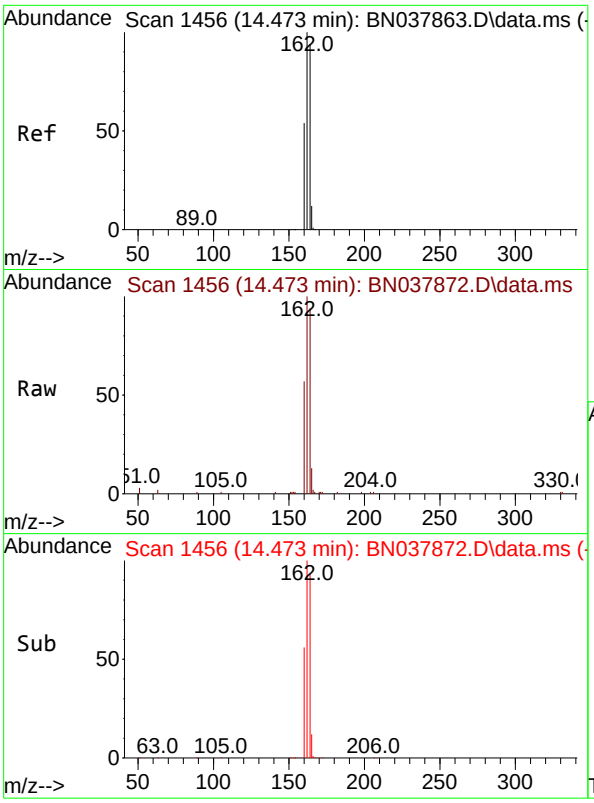


#11
2-Methylnaphthalene-d10
Concen: 0.324 ng
RT: 12.223 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion:152 Resp: 8254

Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.4	26.2



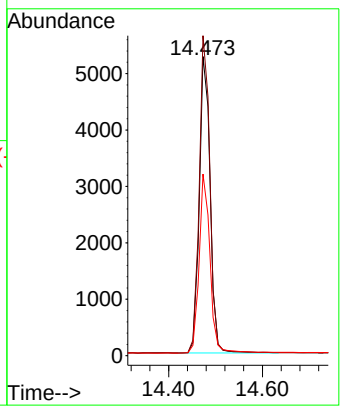


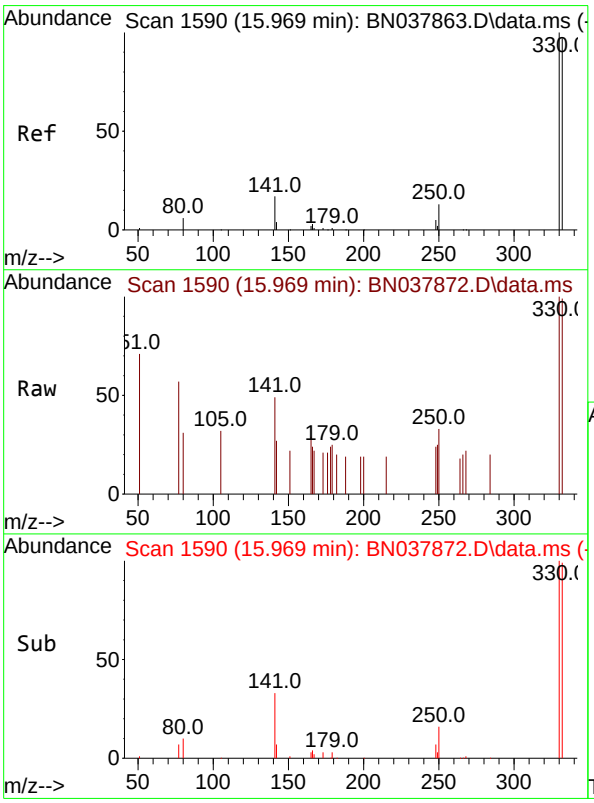
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
PB169712BL

Tgt Ion:164 Resp: 8435

Ion	Ratio	Lower	Upper
164	100		
162	106.9	84.8	127.2
160	60.7	46.1	69.1

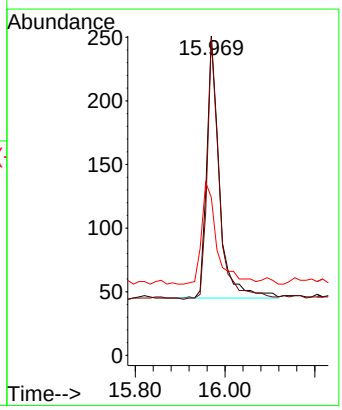


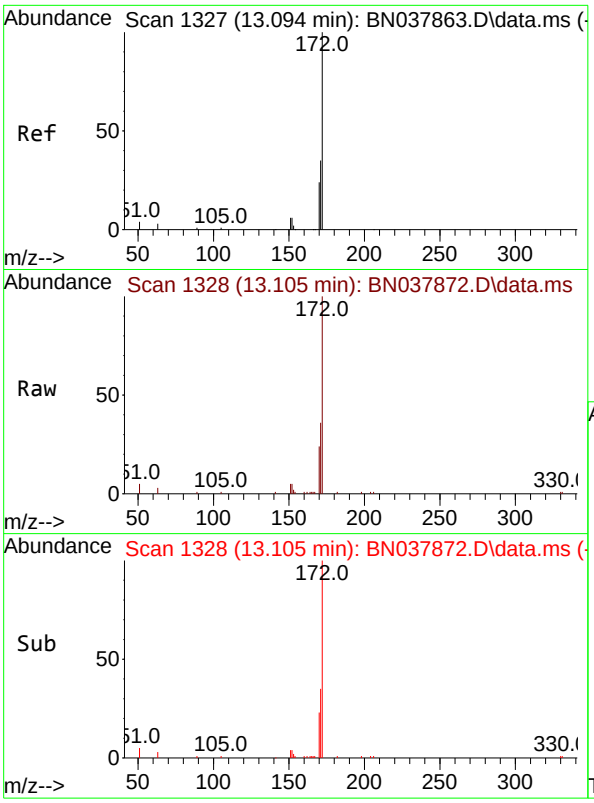


#14
2,4,6-Tribromophenol
Concen: 0.127 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion:330 Resp: 405

Ion	Ratio	Lower	Upper
330	100		
332	95.6	77.2	115.8
141	46.4	37.2	55.8



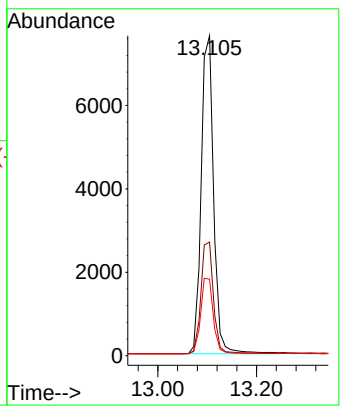


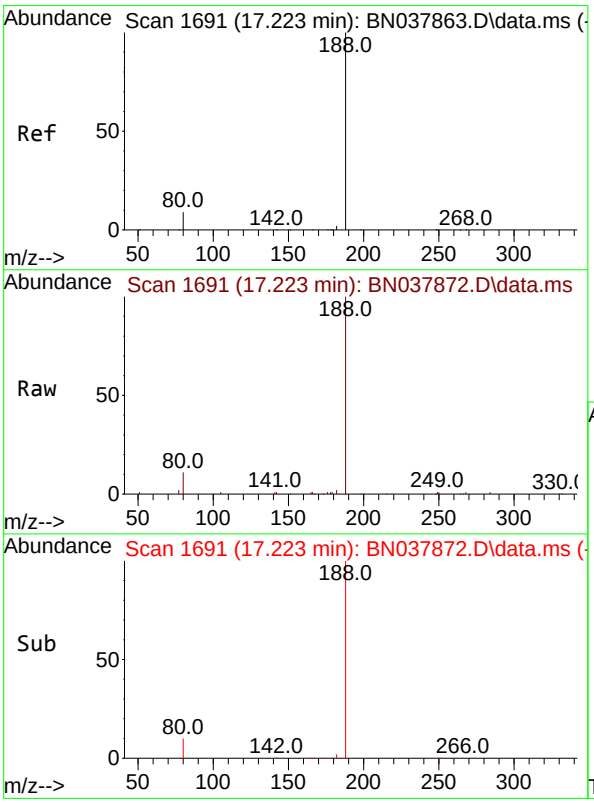
#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 13.105 min Scan# 1
Delta R.T. 0.011 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
PB169712BL

Tgt Ion:172 Resp: 13344

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	43.0
170	23.9	19.7	29.5

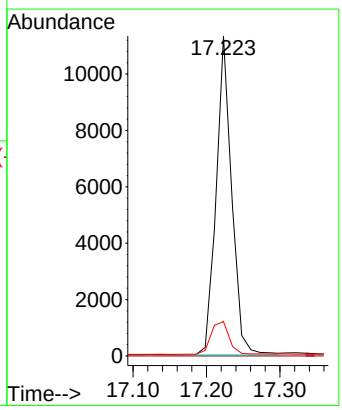


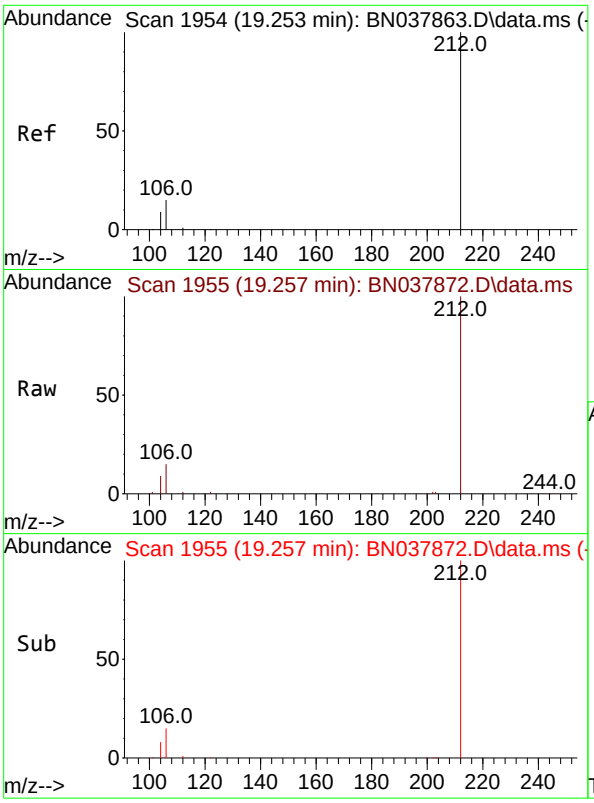


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion:188 Resp: 16554

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.7	7.6	11.4



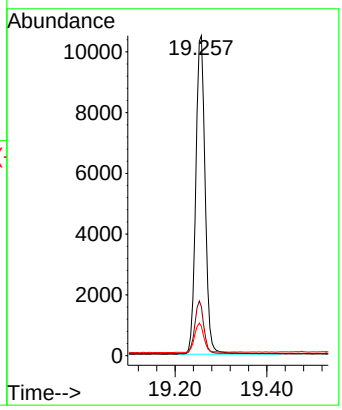


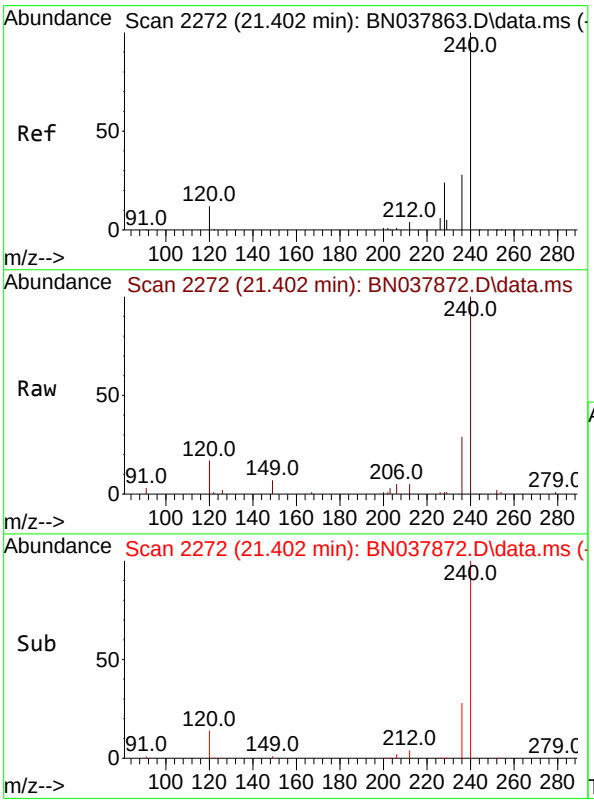
#27
Fluoranthene-d10
Concen: 0.356 ng
RT: 19.257 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
PB169712BL

Tgt Ion:212 Resp: 14829

Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.6	19.0
104	9.3	7.4	11.0

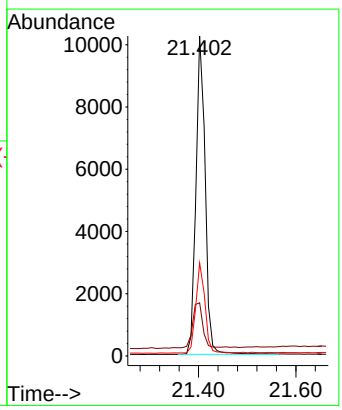


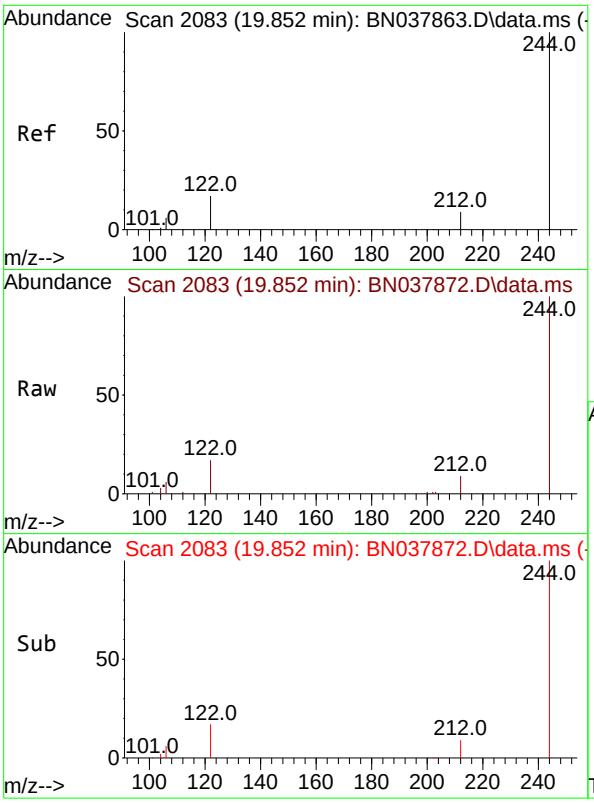


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion:240 Resp: 13474

Ion	Ratio	Lower	Upper
240	100		
120	16.6	11.4	17.2
236	29.1	23.0	34.6



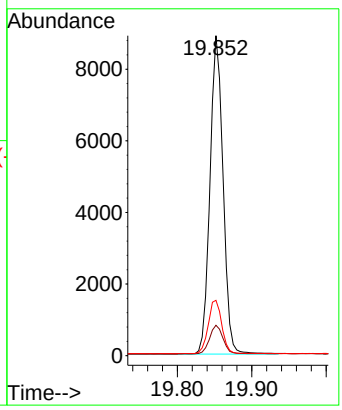


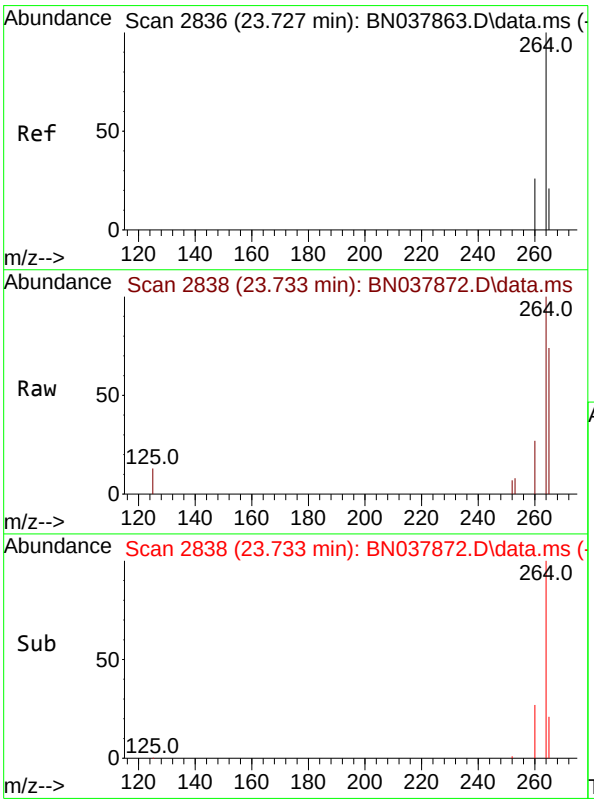
#31
Terphenyl-d14
Concen: 0.405 ng
RT: 19.852 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
PB169712BL

Tgt Ion:244 Resp: 10869

Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.3	13.9	20.9

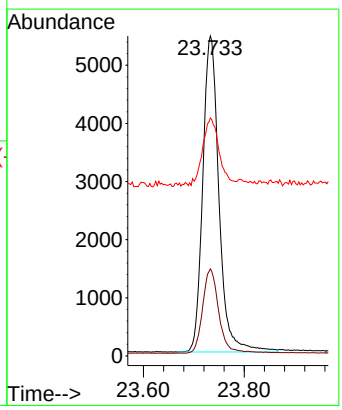




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.733 min Scan# 2838
Delta R.T. 0.006 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion:264 Resp: 12150

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.5	32.3
265	74.3	53.8	80.6



Raw Data: **BN037792.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB169693BS	SDG No.:	Q3097
Lab Sample ID:	PB169693BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037792.D	1	09/15/25 12:00	09/19/25 00:16	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.31		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.29		30 - 150		73%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.32		58 - 132		81%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7440	7.833				
1146-65-2	Naphthalene-d8	19400	10.637				
15067-26-2	Acenaphthene-d10	8150	14.484				
1517-22-2	Phenanthrene-d10	12400	17.235				
1719-03-5	Chrysene-d12	10100	21.411				
1520-96-3	Perylene-d12	10200	23.738				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037792.D
Acq On : 19 Sep 2025 00:16
Operator : RC/JU
Sample : PB169693BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

Quant Time: Sep 19 04:12:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7441	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19392	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8149	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12386	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10095	0.400	ng	0.00
35) Perylene-d12	23.738	264	10200	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	5555	0.325	ng	0.00
5) Phenol-d6	6.980	99	6563	0.296	ng	0.00
8) Nitrobenzene-d5	8.982	82	5088	0.359	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	7932	0.309	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	674	0.317	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	12492	0.367	ng	-0.01
27) Fluoranthene-d10	19.262	212	9050	0.291	ng	0.00
31) Terphenyl-d14	19.861	244	6591	0.322	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	2366	0.305	ng	# 85
3) n-Nitrosodimethylamine	3.600	42	3300	0.326	ng	# 90
6) bis(2-Chloroethyl)ether	7.248	93	6941	0.351	ng	100
9) Naphthalene	10.680	128	17810	0.336	ng	99
10) Hexachlorobutadiene	10.989	225	3379	0.352	ng	# 99
12) 2-Methylnaphthalene	12.303	142	9820	0.299	ng	99
16) Acenaphthylene	14.206	152	13377	0.358	ng	99
17) Acenaphthene	14.548	154	8509	0.337	ng	99
18) Fluorene	15.535	166	9452	0.309	ng	99
20) 4,6-Dinitro-2-methylph...	15.609	198	305	0.266	ng	# 88
21) 4-Bromophenyl-phenylether	16.428	248	2895	0.358	ng	# 92
22) Hexachlorobenzene	16.540	284	3601	0.388	ng	98
23) Atrazine	16.689	200	1710	0.333	ng	# 94
24) Pentachlorophenol	16.888	266	1388	0.515	ng	98
25) Phenanthrene	17.273	178	13505	0.346	ng	100
26) Anthracene	17.359	178	11748	0.340	ng	99
28) Fluoranthene	19.294	202	12912	0.302	ng	100
30) Pyrene	19.652	202	12854	0.325	ng	100
32) Benzo(a)anthracene	21.393	228	12540	0.356	ng	100
33) Chrysene	21.447	228	13567	0.359	ng	100
34) Bis(2-ethylhexyl)phtha...	21.331	149	3708	0.355	ng	98
36) Indeno(1,2,3-cd)pyrene	26.118	276	17423	0.407	ng	99
37) Benzo(b)fluoranthene	23.034	252	14955	0.372	ng	# 96
38) Benzo(k)fluoranthene	23.081	252	14241m	0.348	ng	
39) Benzo(a)pyrene	23.633	252	12714	0.395	ng	# 94
40) Dibenzo(a,h)anthracene	26.142	278	13475	0.394	ng	99
41) Benzo(g,h,i)perylene	26.843	276	15272	0.398	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

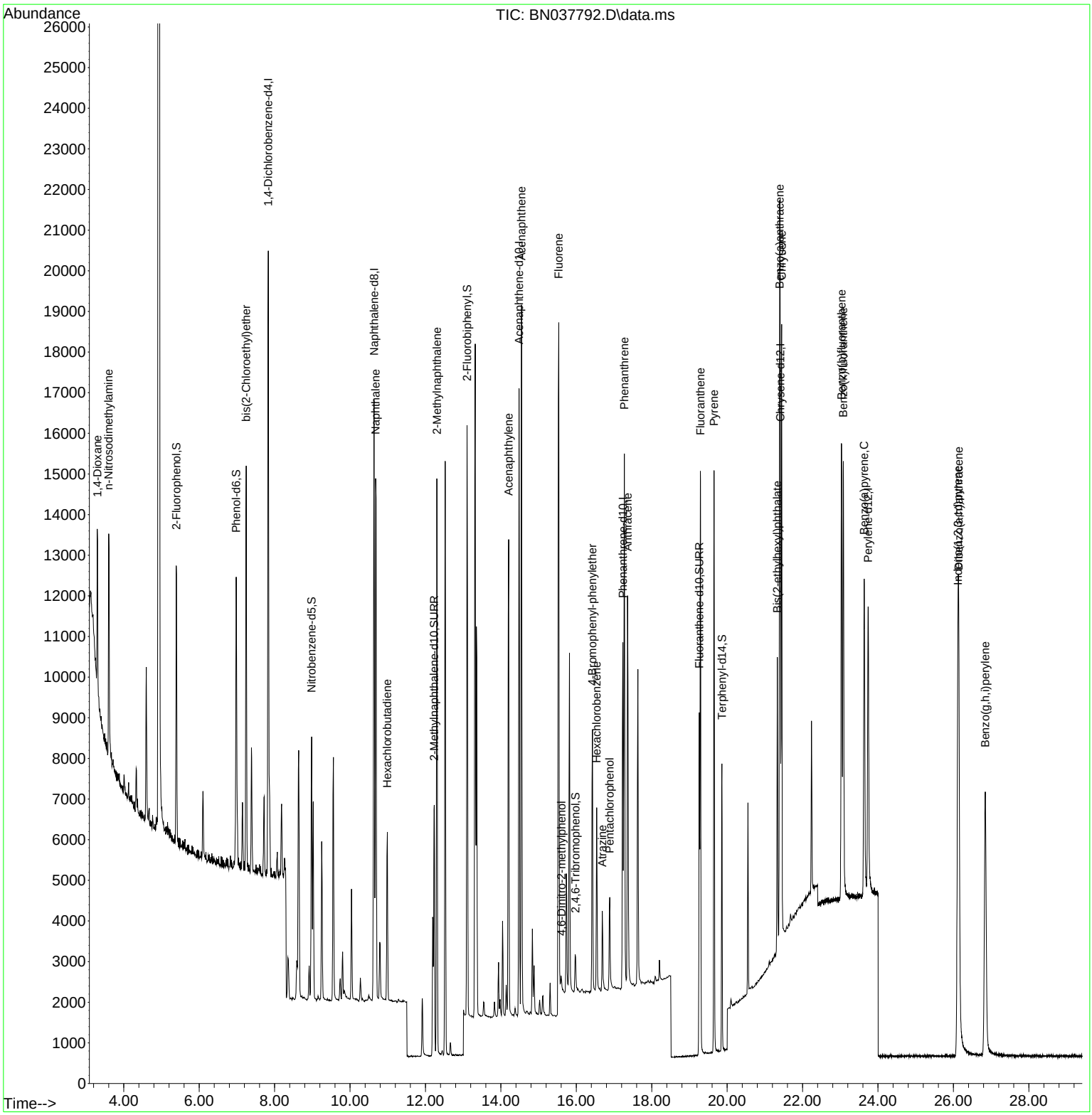
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037792.D
Acq On : 19 Sep 2025 00:16
Operator : RC/JU
Sample : PB169693BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

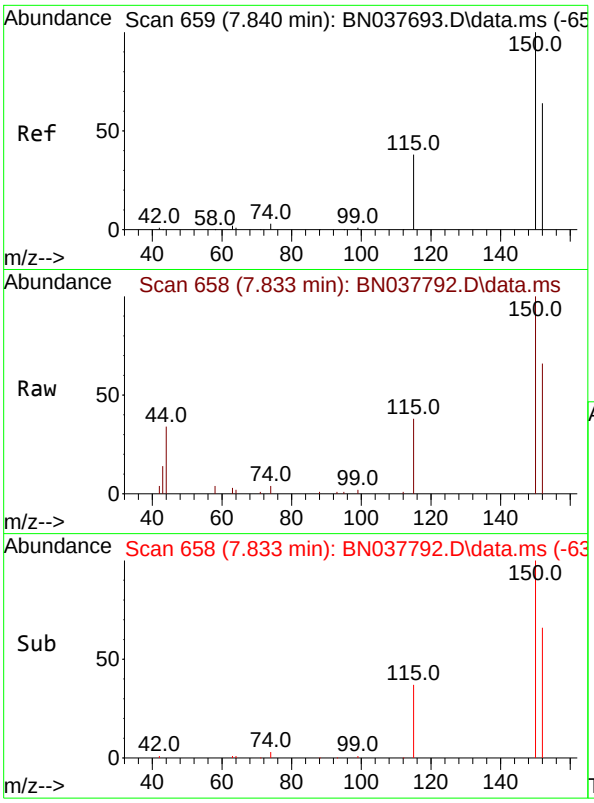
Quant Time: Sep 19 04:12:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

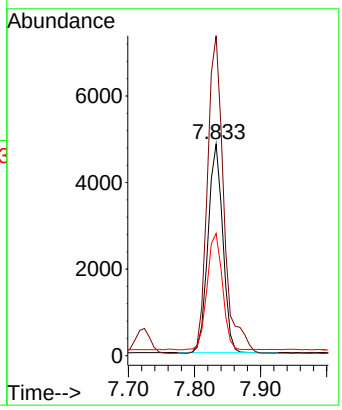




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:152 Resp: 744

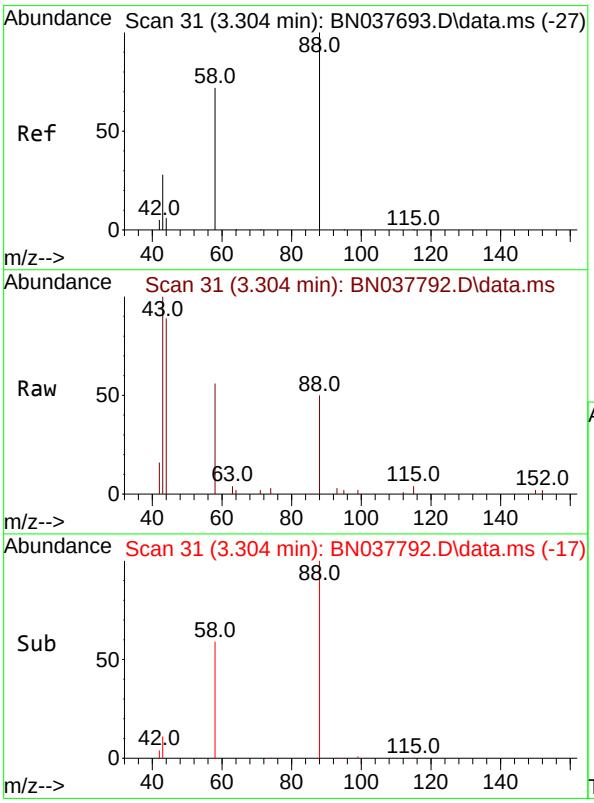
Ion	Ratio	Lower	Upper
152	100		
150	151.3	124.5	186.7
115	57.8	49.2	73.8



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

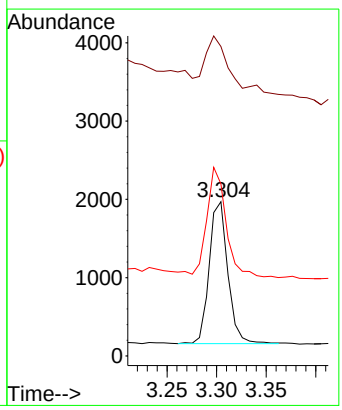
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

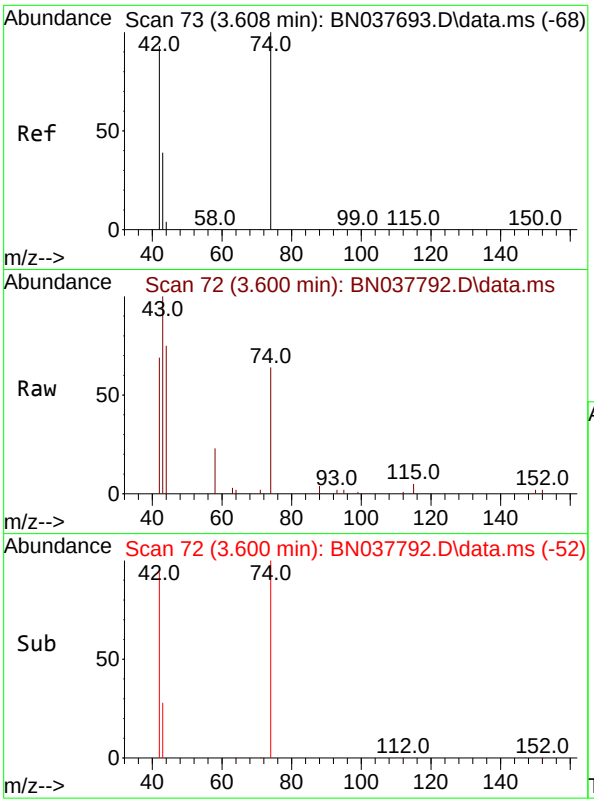


#2
1,4-Dioxane
Concen: 0.305 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 88 Resp: 2366

Ion	Ratio	Lower	Upper
88	100		
43	56.6	26.8	40.2#
58	80.3	61.9	92.9





#3
n-Nitrosodimethylamine
Concen: 0.326 ng
RT: 3.600 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

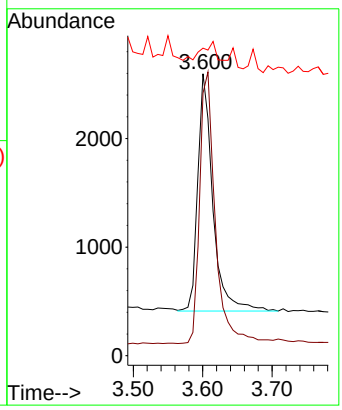
Tgt Ion: 42 Resp: 330

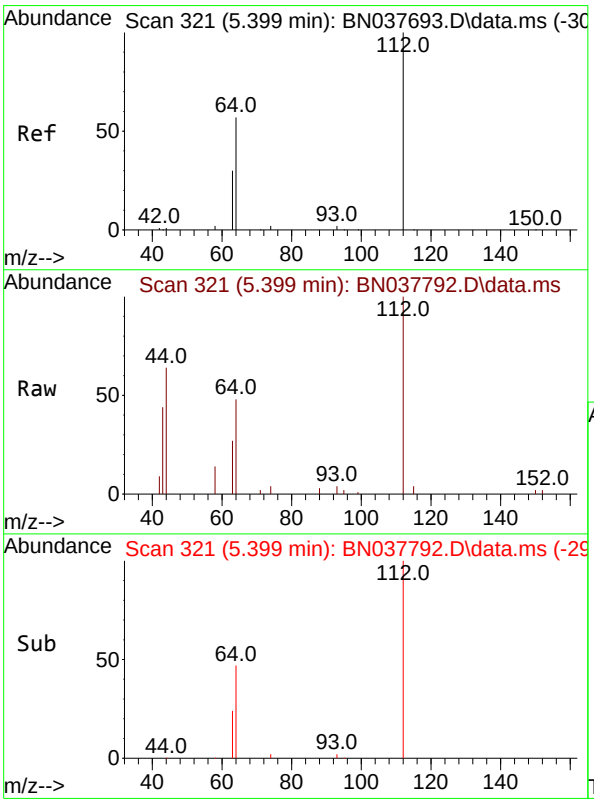
Ion	Ratio	Lower	Upper
42	100		
74	118.9	86.0	129.0
44	8.3	8.4	12.6

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

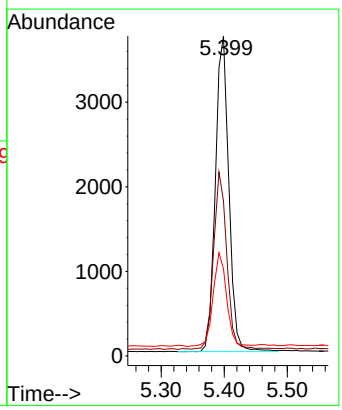


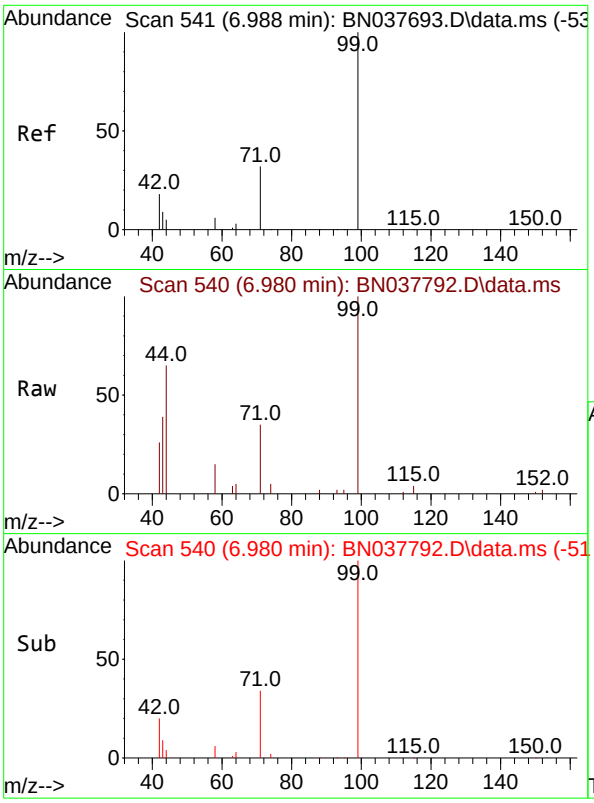


#4
2-Fluorophenol
Concen: 0.325 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:112 Resp: 5555

Ion	Ratio	Lower	Upper
112	100		
64	55.5	44.9	67.3
63	29.6	24.7	37.1

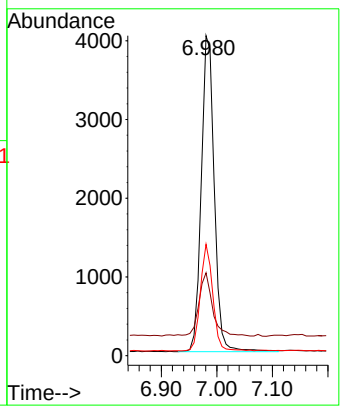




#5
Phenol-d6
Concen: 0.296 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 99 Resp: 656

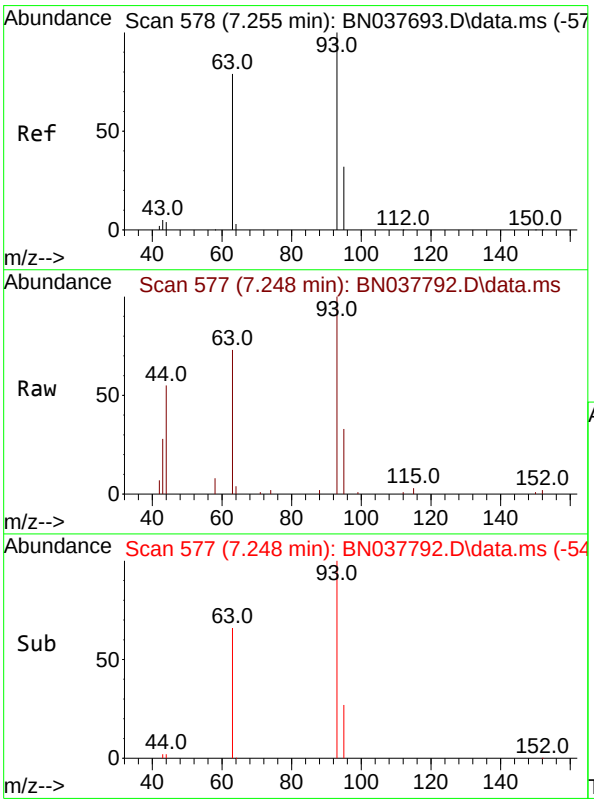
Ion	Ratio	Lower	Upper
99	100		
42	20.6	16.6	24.8
71	32.2	26.7	40.1



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

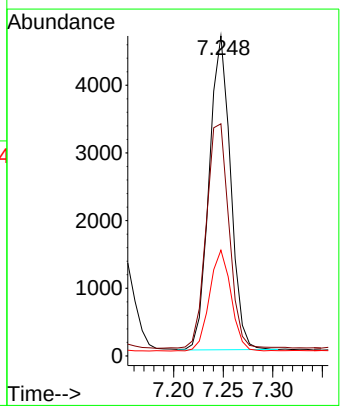
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

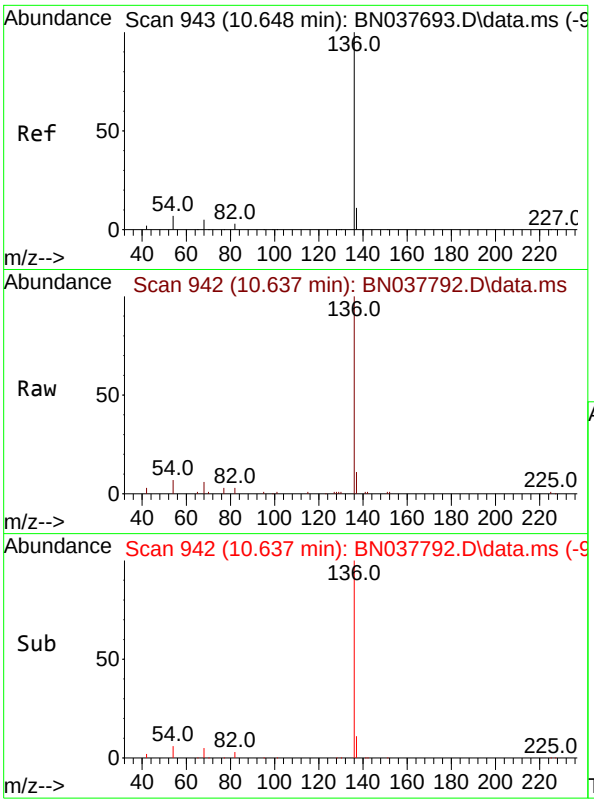


#6
bis(2-Chloroethyl)ether
Concen: 0.351 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 93 Resp: 6941

Ion	Ratio	Lower	Upper
93	100		
63	76.1	60.6	90.8
95	32.6	26.0	39.0

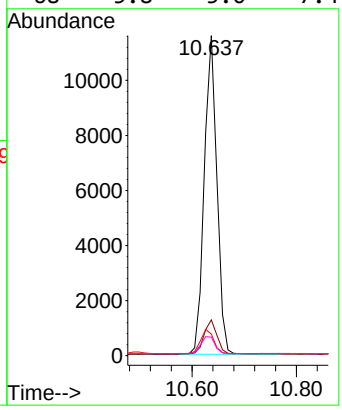




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:136 Resp: 1939

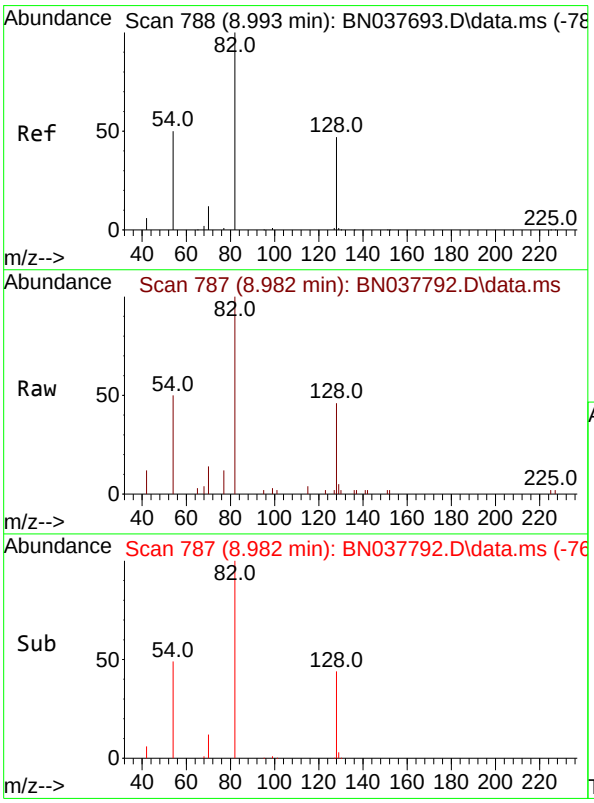
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.8	6.3	9.5
68	5.8	5.0	7.4



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

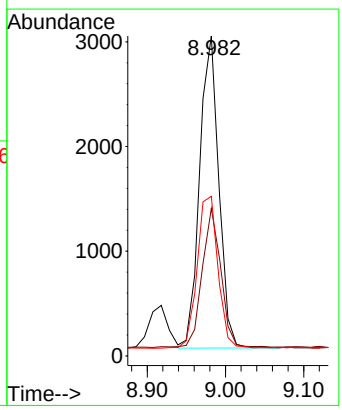
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

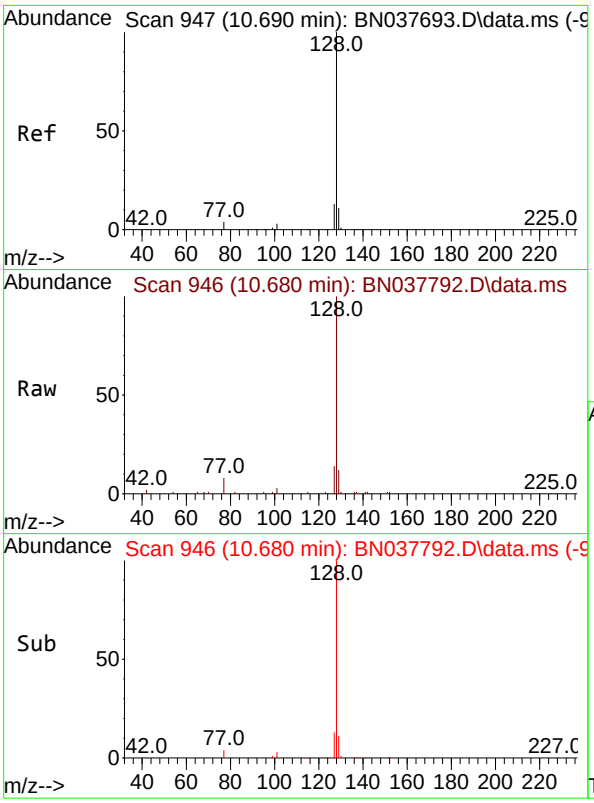


#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 82 Resp: 5088

Ion	Ratio	Lower	Upper
82	100		
128	46.1	38.3	57.5
54	49.9	41.4	62.2

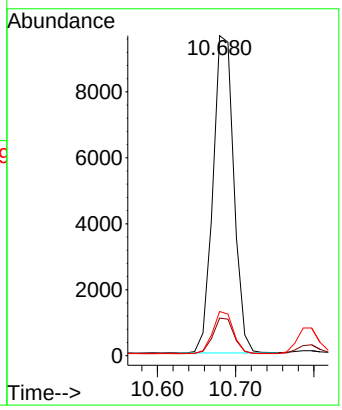




#9
Naphthalene
Concen: 0.336 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:128 Resp: 1781

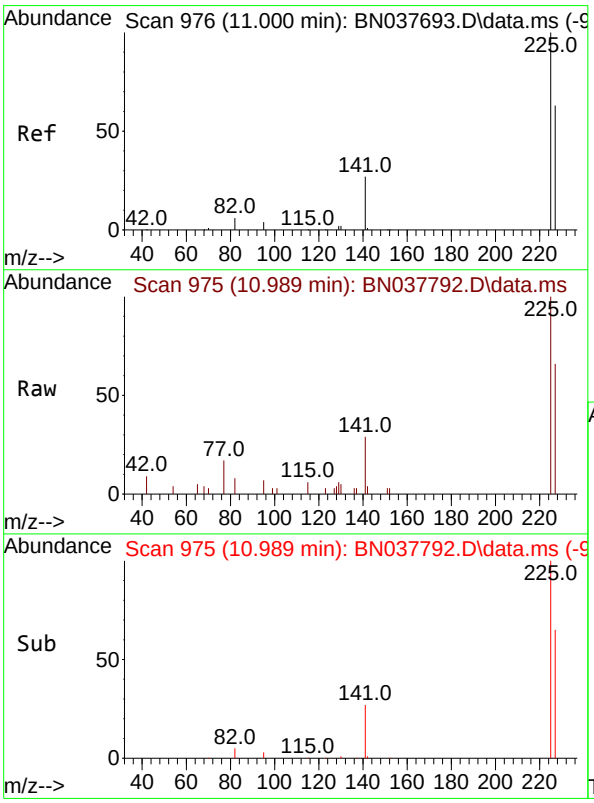
Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.1	13.7
127	13.8	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

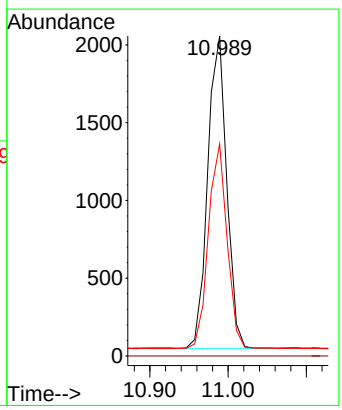
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

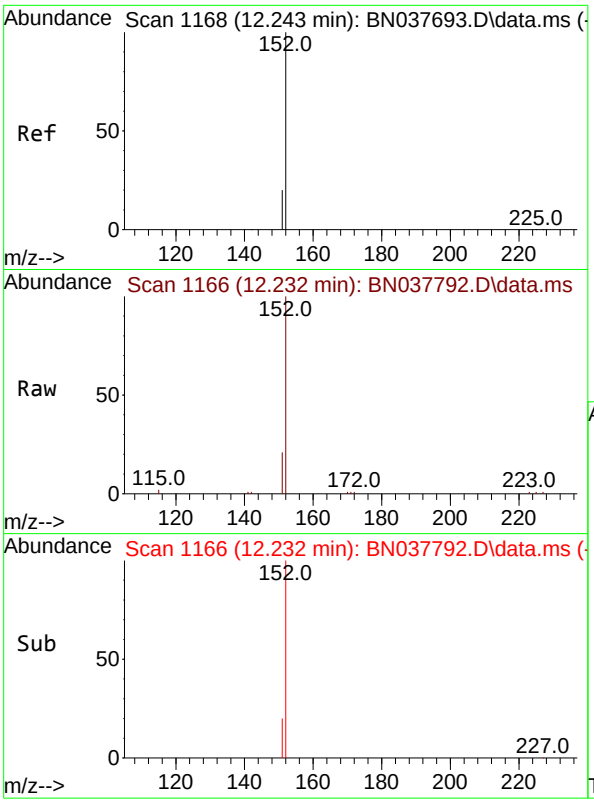


#10
Hexachlorobutadiene
Concen: 0.352 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:225 Resp: 3379

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.5	50.9	76.3

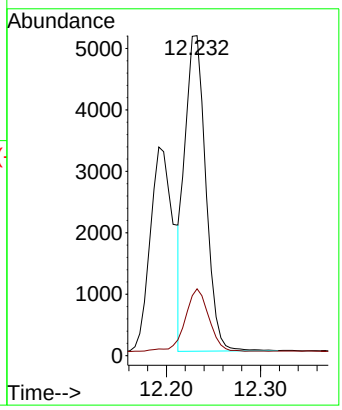




#11
2-Methylnaphthalene-d10
Concen: 0.309 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:152 Resp: 793

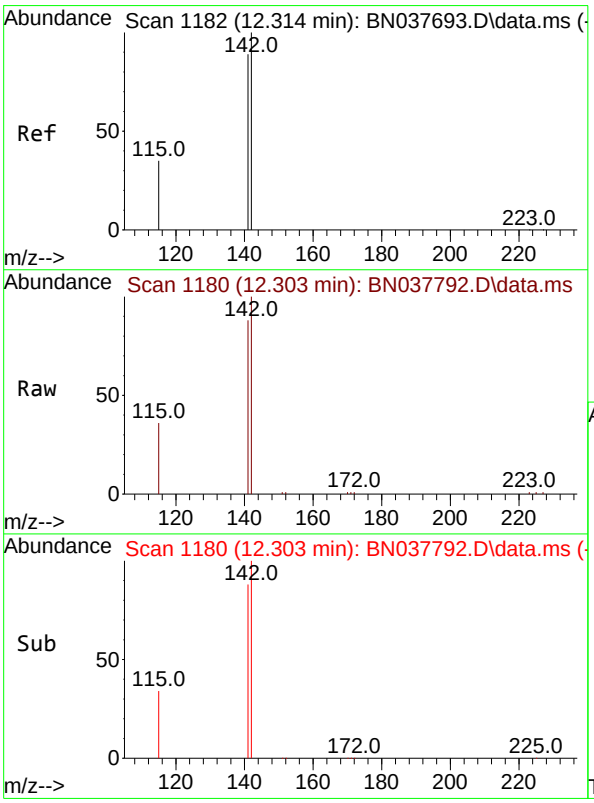
Ion	Ratio	Lower	Upper
152	100		
151	22.6	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

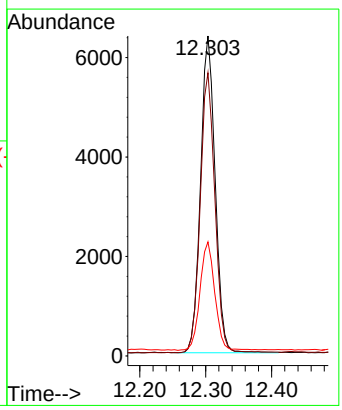
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

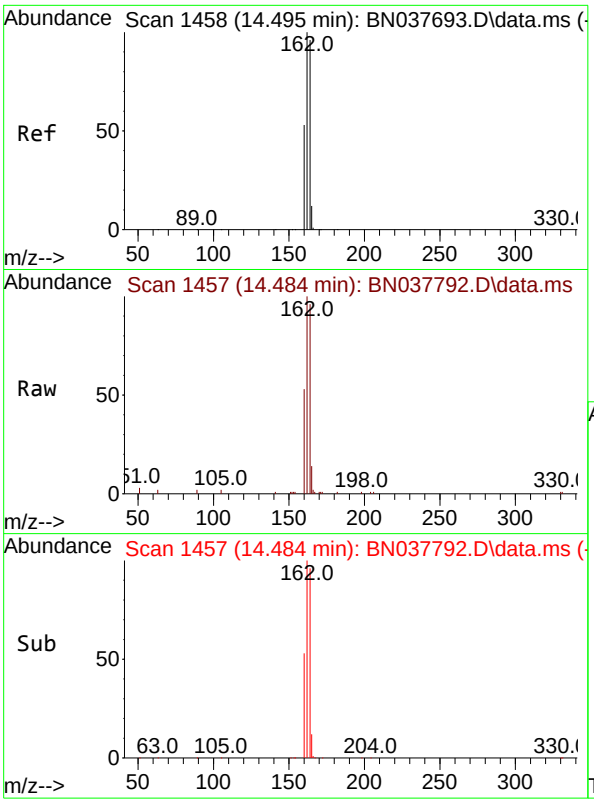


#12
2-Methylnaphthalene
Concen: 0.299 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:142 Resp: 9820

Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.6	107.4
115	35.7	28.6	43.0

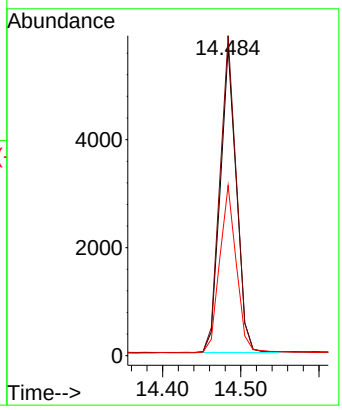




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:164 Resp: 814

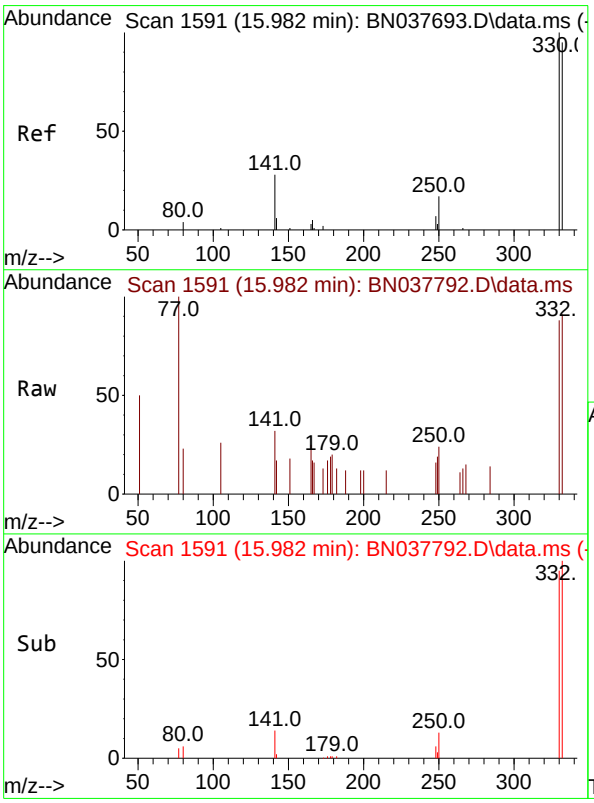
Ion	Ratio	Lower	Upper
164	100		
162	103.7	83.1	124.7
160	55.2	44.3	66.5



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

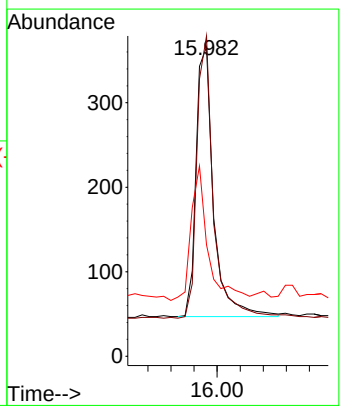
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

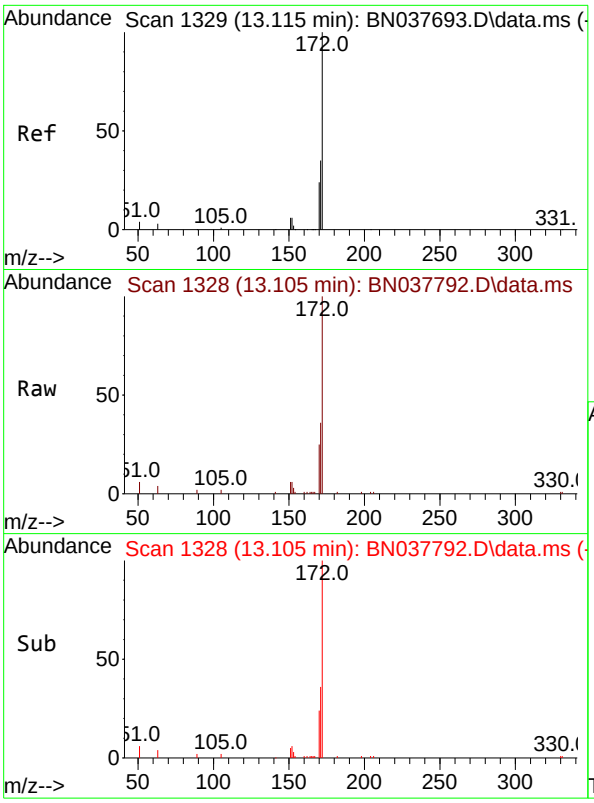


#14
2,4,6-Tribromophenol
Concen: 0.317 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:330 Resp: 674

Ion	Ratio	Lower	Upper
330	100		
332	99.4	75.3	112.9
141	47.6	35.0	52.4

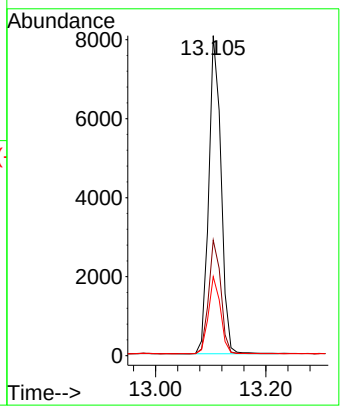




#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:172 Resp: 1249

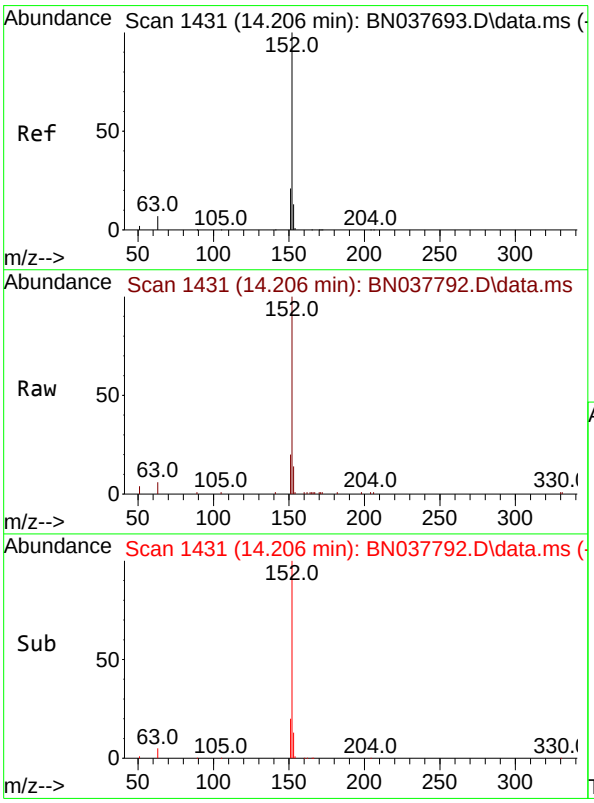
Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.6	43.0
170	24.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

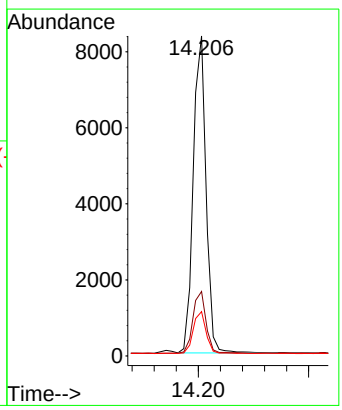
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

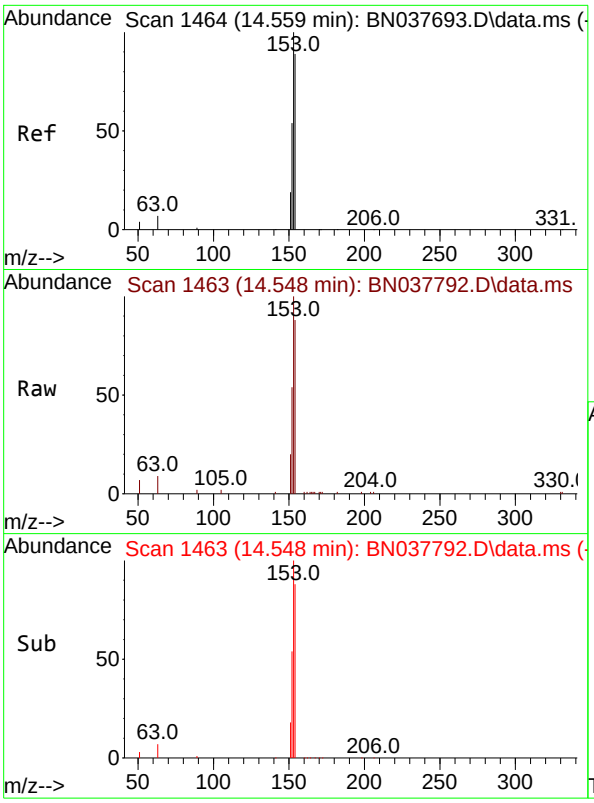


#16
Acenaphthylene
Concen: 0.358 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:152 Resp: 13377

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.4	10.4	15.6

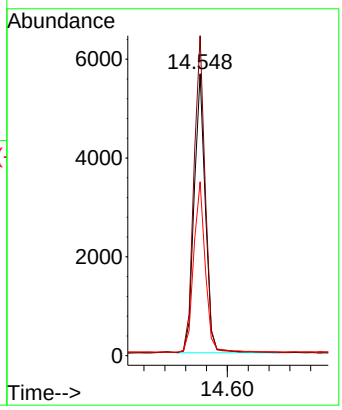




#17
Acenaphthene
Concen: 0.337 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:154 Resp: 850

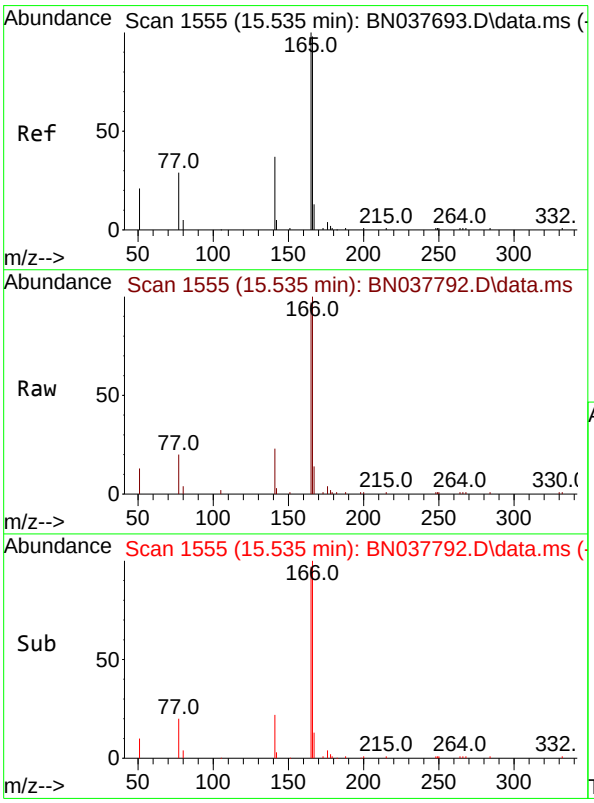
Ion	Ratio	Lower	Upper
154	100		
153	113.0	89.8	134.8
152	62.9	50.2	75.2



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

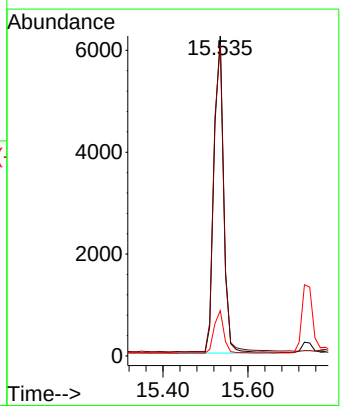
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

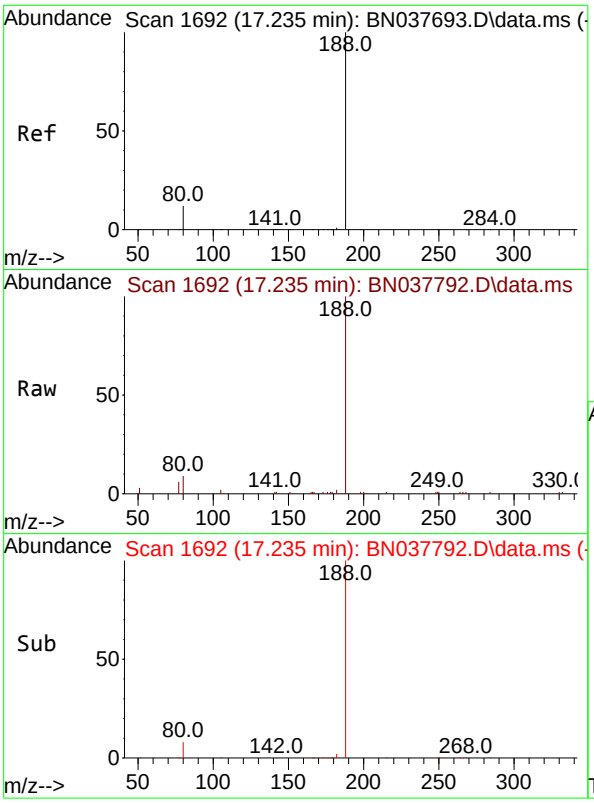


#18
Fluorene
Concen: 0.309 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:166 Resp: 9452

Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.6	119.4
167	13.9	10.6	16.0

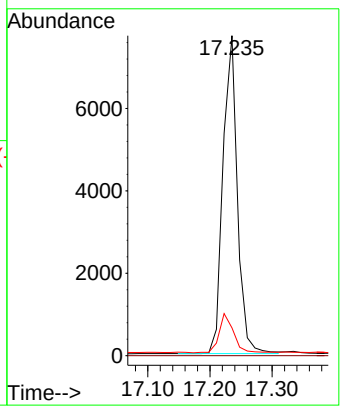




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:188 Resp: 1238

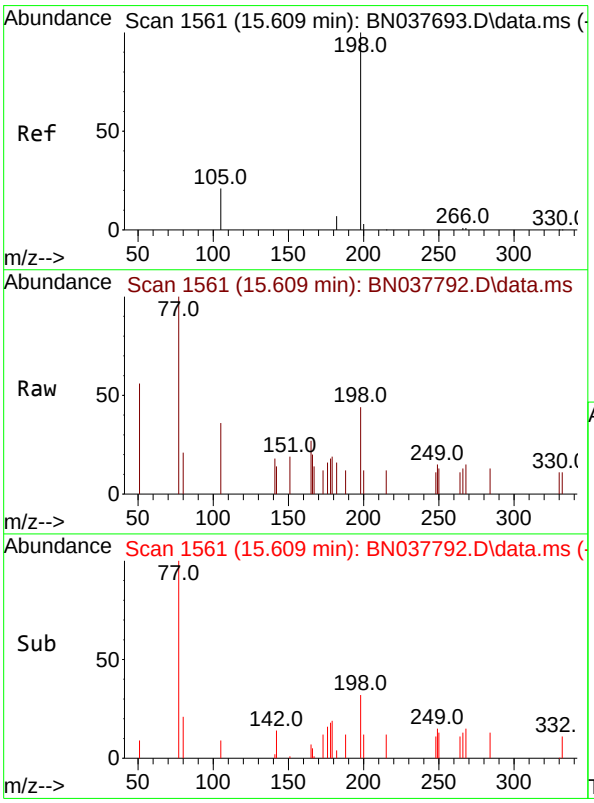
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.7	10.6	15.8#



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

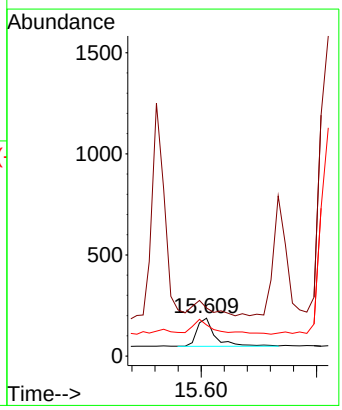
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

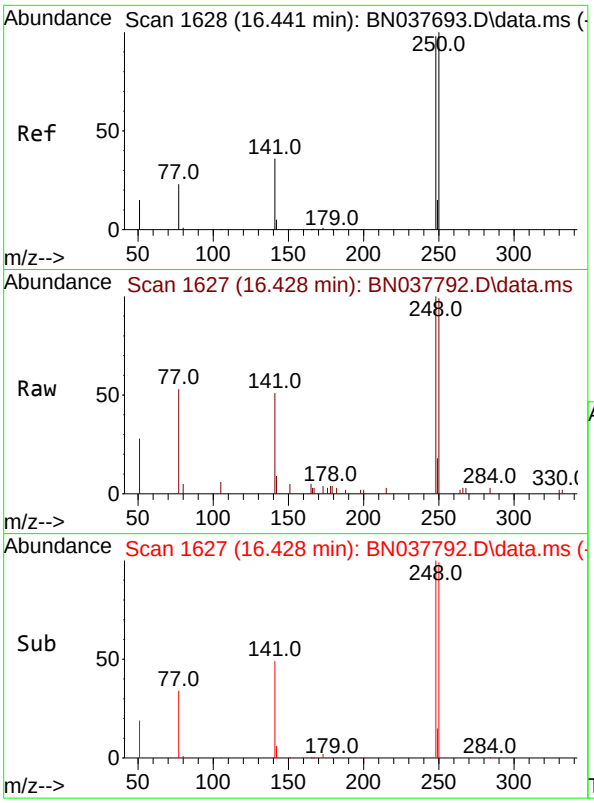


#20
4,6-Dinitro-2-methylphenol
Concen: 0.266 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:198 Resp: 305

Ion	Ratio	Lower	Upper
198	100		
51	127.3	95.1	142.7
105	82.4	53.8	80.6#

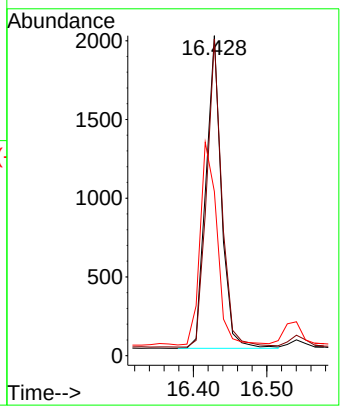




#21
4-Bromophenyl-phenylether
Concen: 0.358 ng
RT: 16.428 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:248 Resp: 289

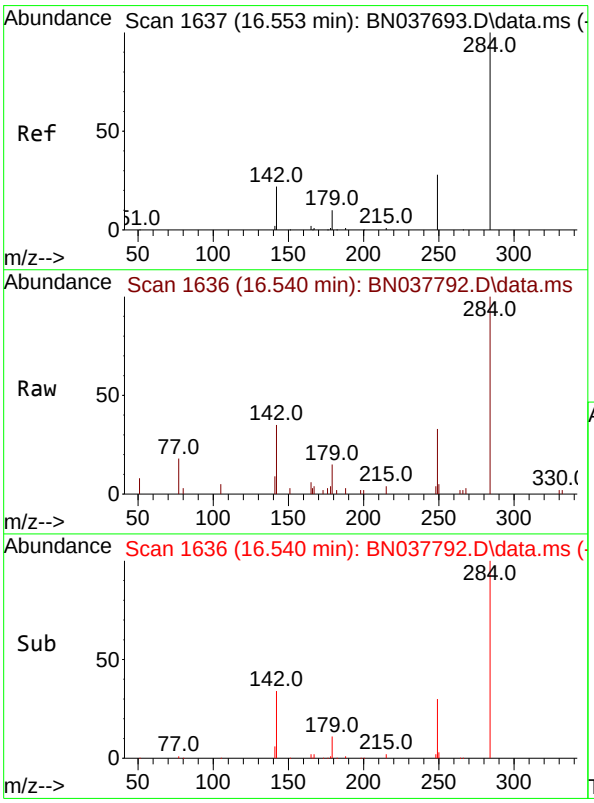
Ion	Ratio	Lower	Upper
248	100		
250	99.0	81.5	122.3
141	51.3	30.8	46.2



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

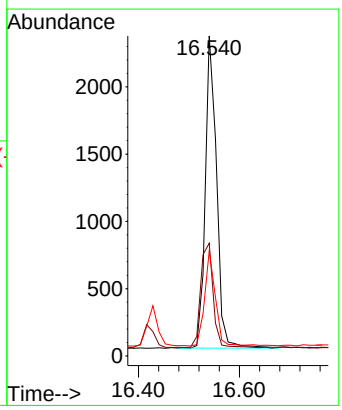
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

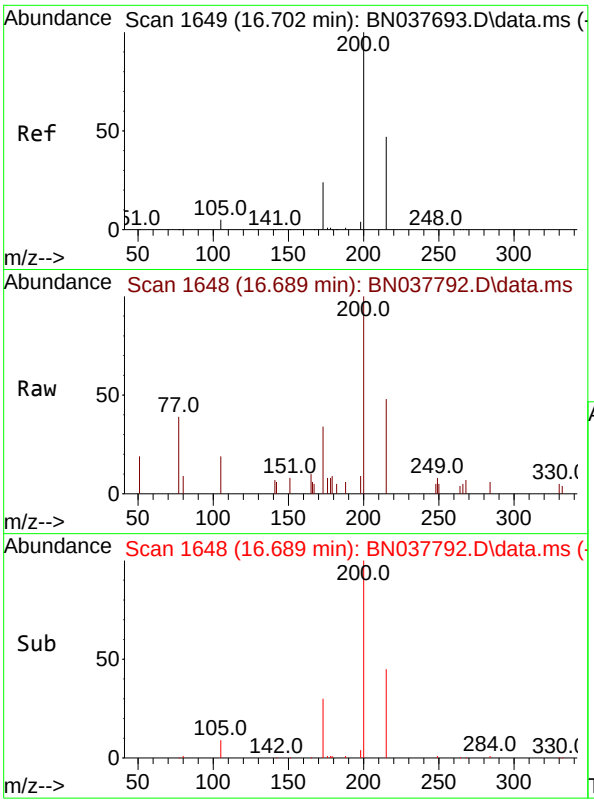


#22
Hexachlorobenzene
Concen: 0.388 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:284 Resp: 3601

Ion	Ratio	Lower	Upper
284	100		
142	37.9	30.9	46.3
249	28.9	24.8	37.2

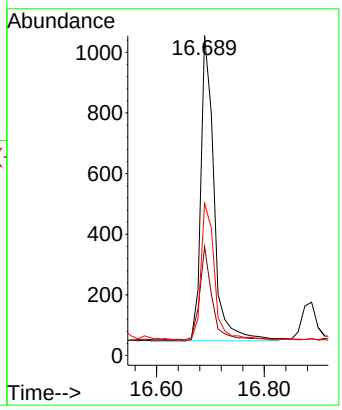




#23
Atrazine
Concen: 0.333 ng
RT: 16.689 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:200 Resp: 171(

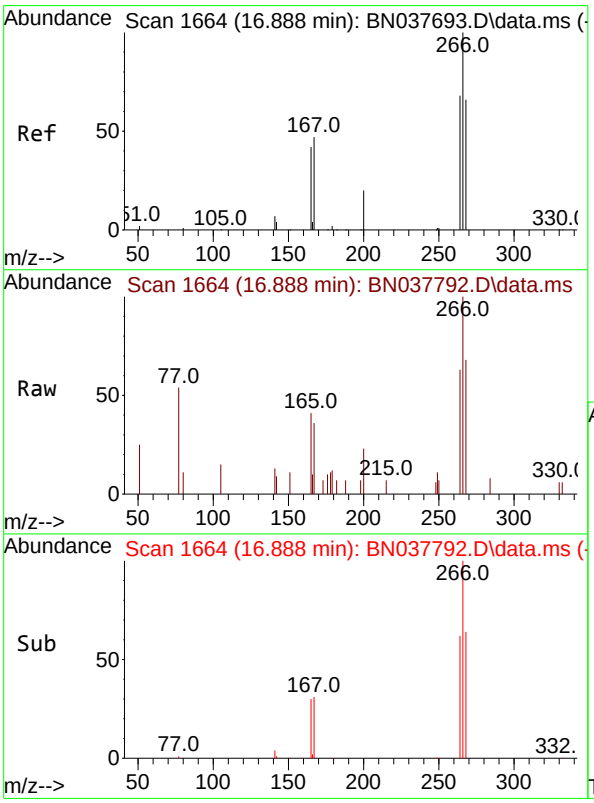
Ion	Ratio	Lower	Upper
200	100		
173	34.0	21.4	32.2#
215	47.6	39.2	58.8



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

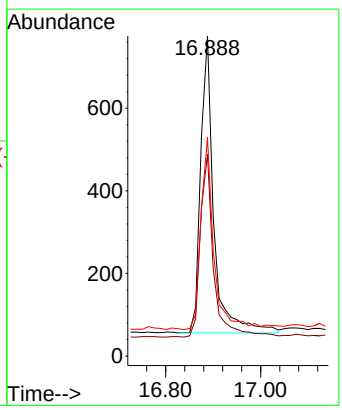
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

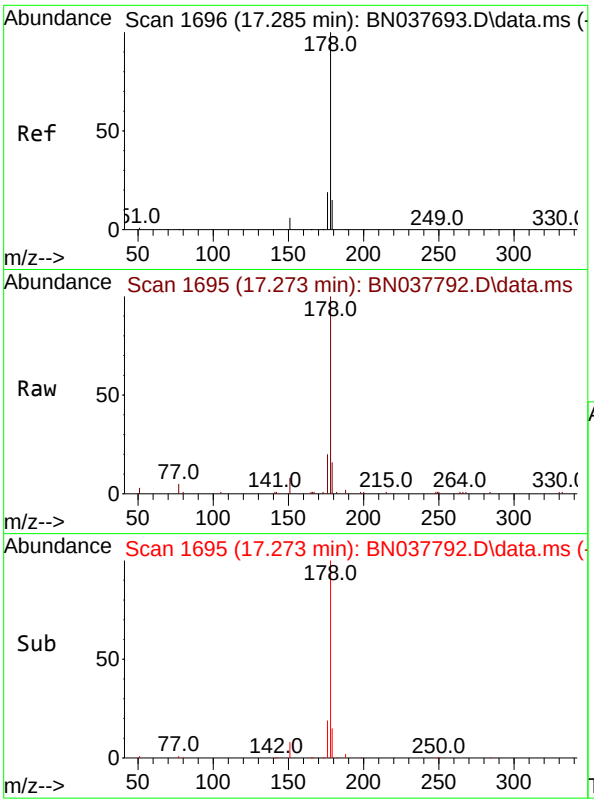


#24
Pentachlorophenol
Concen: 0.515 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:266 Resp: 1388

Ion	Ratio	Lower	Upper
266	100		
264	62.3	51.6	77.4
268	65.3	53.2	79.8

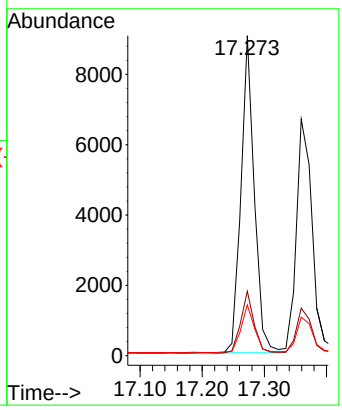




#25
Phenanthrene
Concen: 0.346 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:178 Resp: 1350

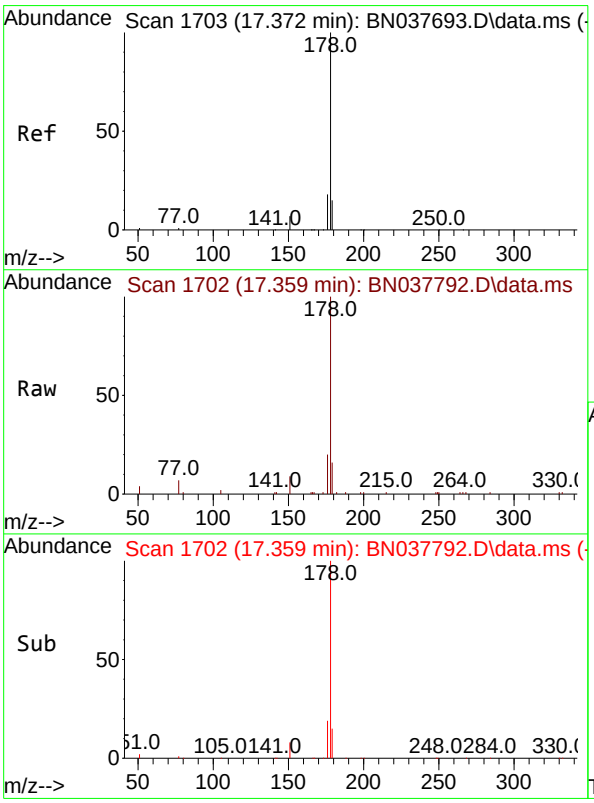
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.3	22.9
179	15.3	12.2	18.2



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

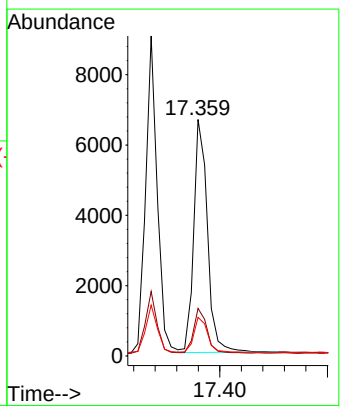
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

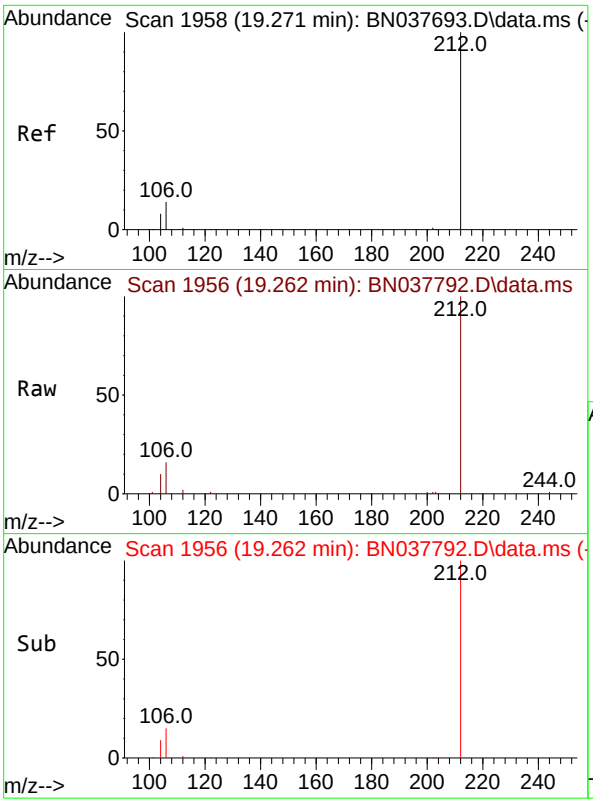


#26
Anthracene
Concen: 0.340 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:178 Resp: 11748

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.6	22.0
179	15.4	12.2	18.4

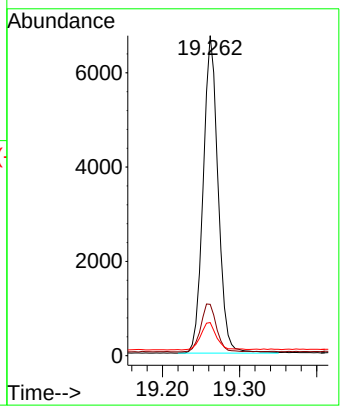




#27
Fluoranthene-d10
Concen: 0.291 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:212 Resp: 905

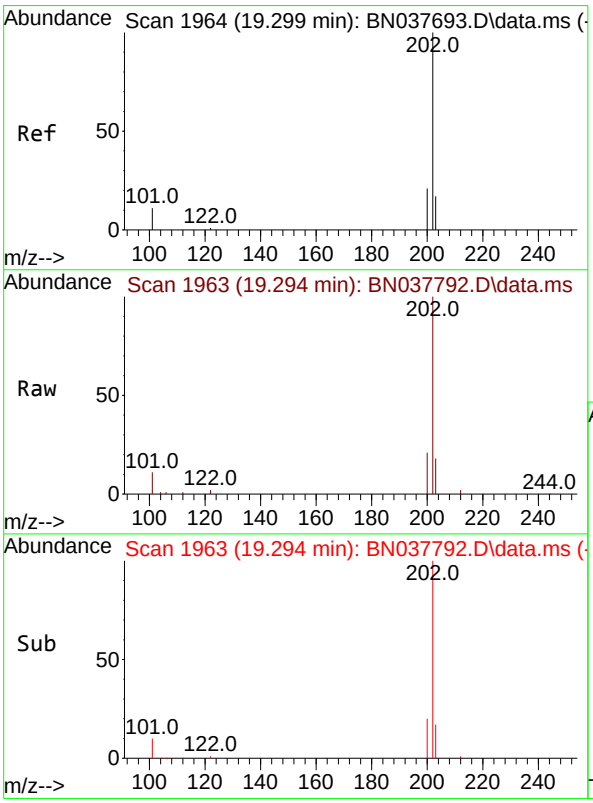
Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.2	18.2
104	9.2	6.9	10.3



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

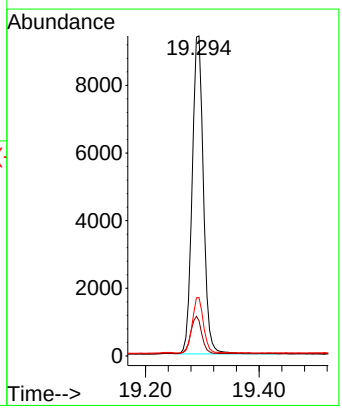
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

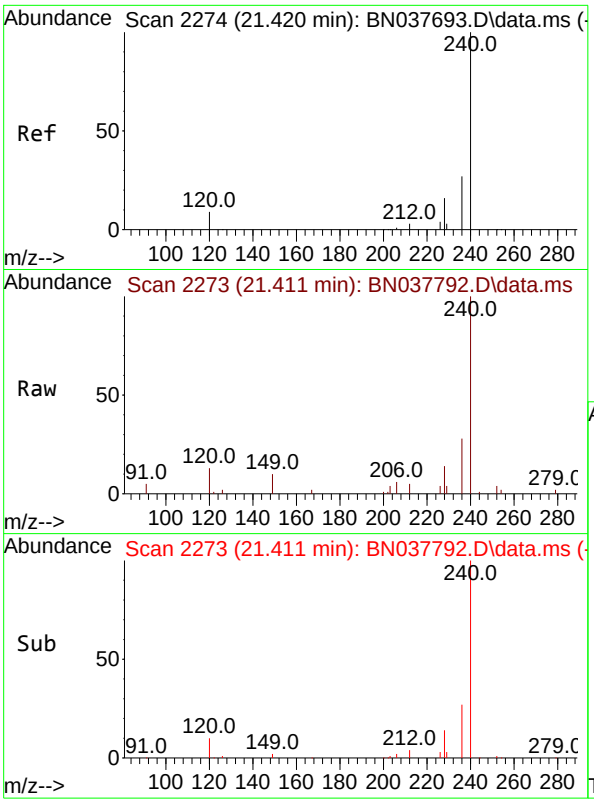


#28
Fluoranthene
Concen: 0.302 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:202 Resp: 12912

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.3	13.9
203	17.3	13.7	20.5

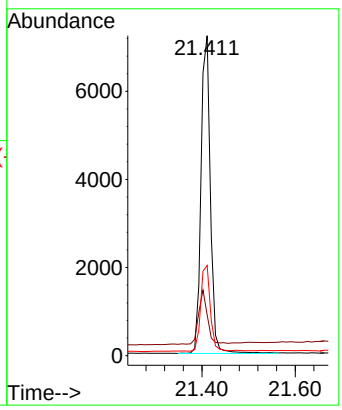




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:240 Resp: 1009

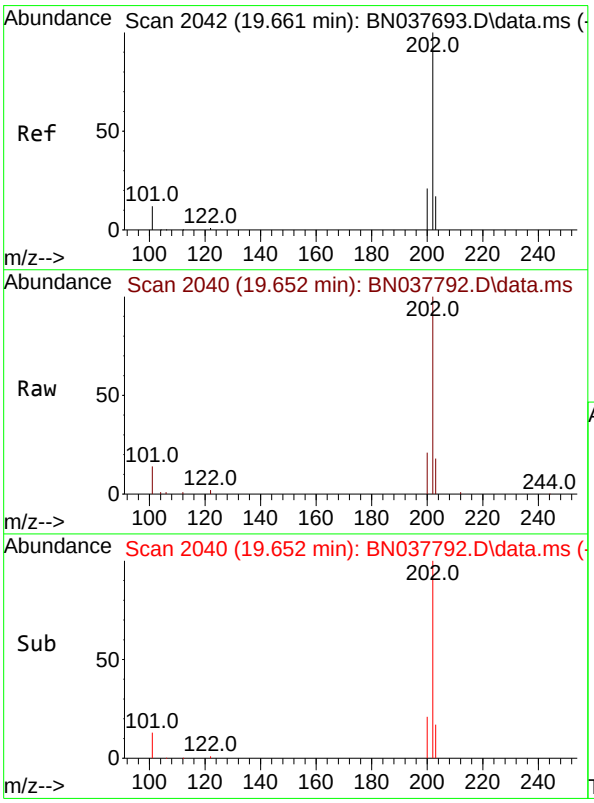
Ion	Ratio	Lower	Upper
240	100		
120	12.7	9.2	13.8
236	28.2	22.6	33.8



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

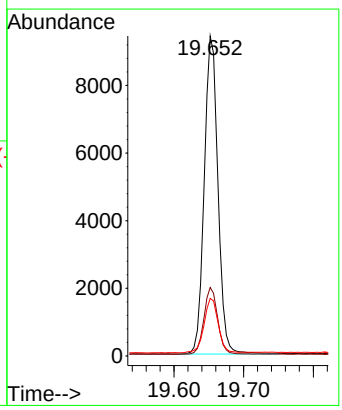
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

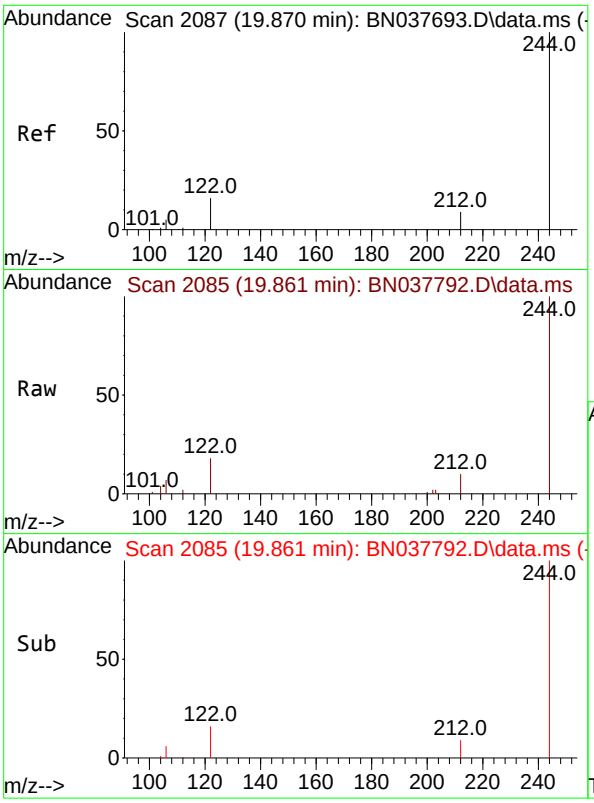


#30
Pyrene
Concen: 0.325 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:202 Resp: 12854

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.5	14.3	21.5

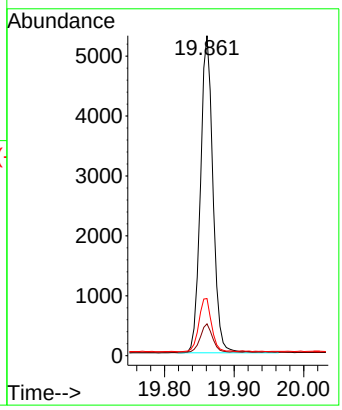




#31
Terphenyl-d14
Concen: 0.322 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:244 Resp: 659

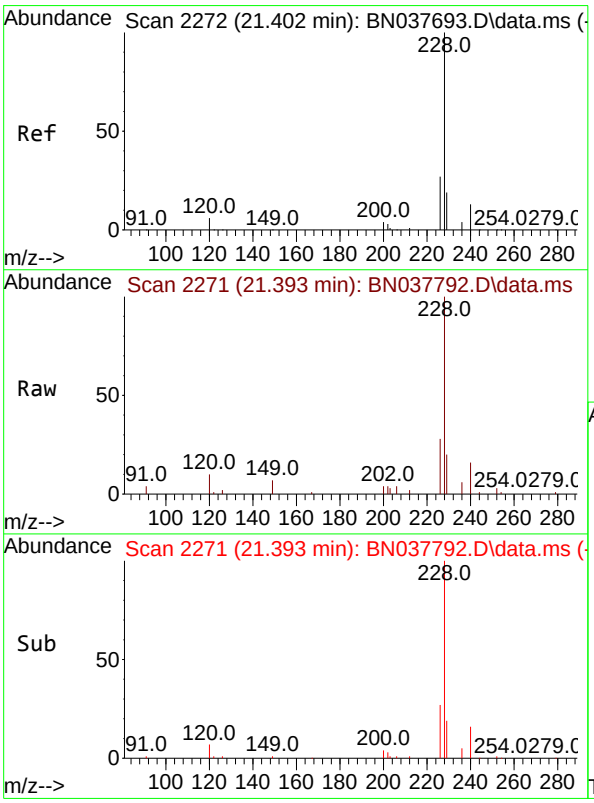
Ion	Ratio	Lower	Upper
244	100		
212	10.0	7.5	11.3
122	17.8	13.2	19.8



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

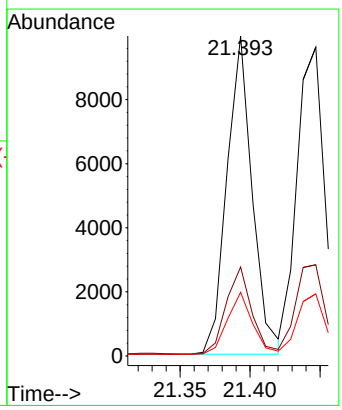
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

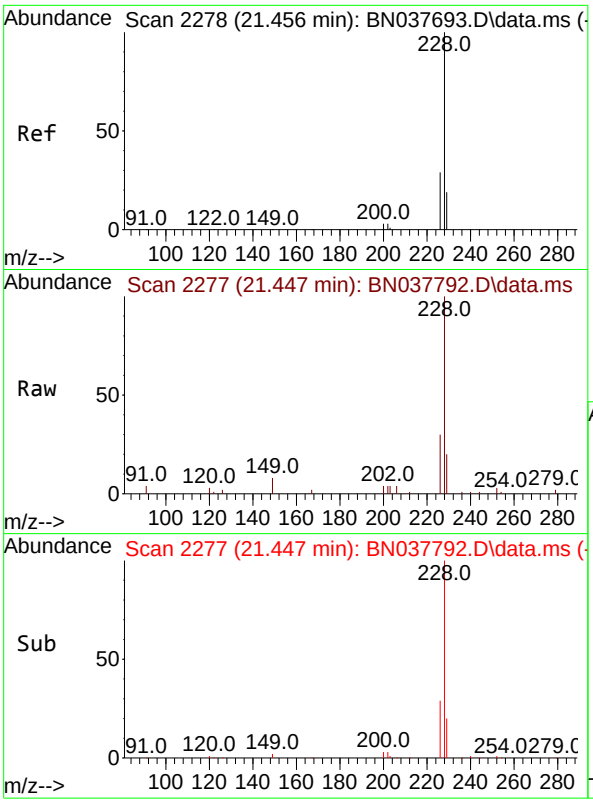


#32
Benzo(a)anthracene
Concen: 0.356 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:228 Resp: 12540

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.2	33.2
229	19.9	15.8	23.6

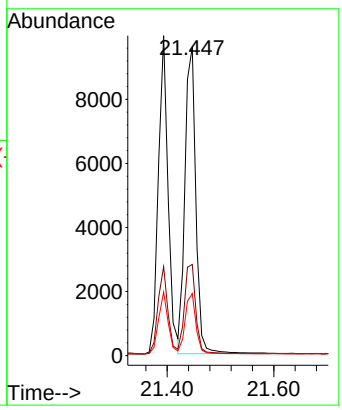




#33
Chrysene
Concen: 0.359 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:228 Resp: 1356

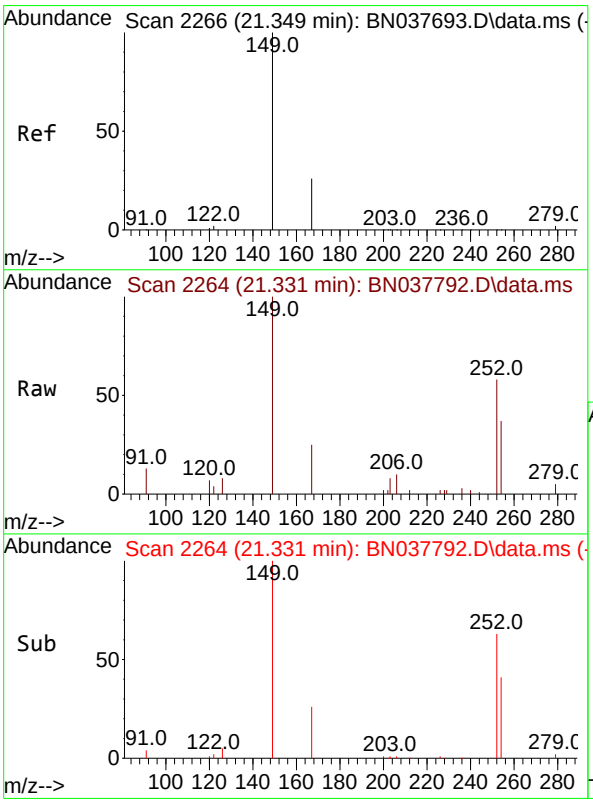
Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.5	35.3
229	20.1	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

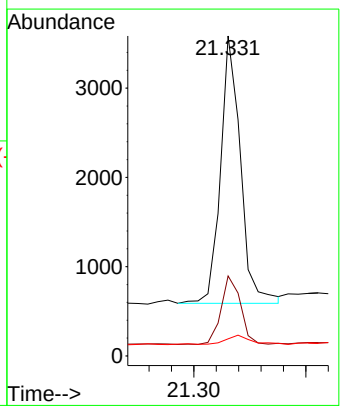
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

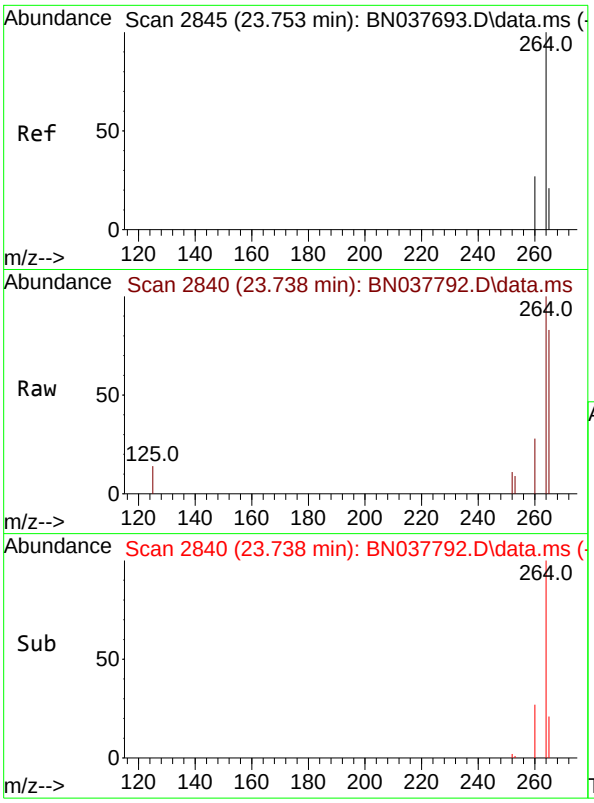


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.355 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:149 Resp: 3708

Ion	Ratio	Lower	Upper
149	100		
167	25.0	20.8	31.2
279	4.3	3.3	4.9

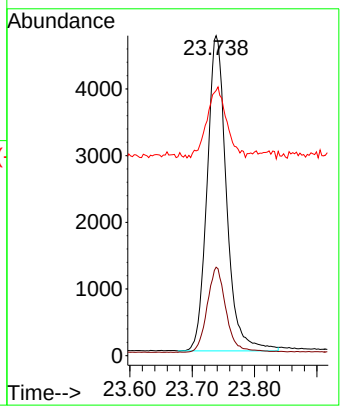




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:264 Resp: 1020

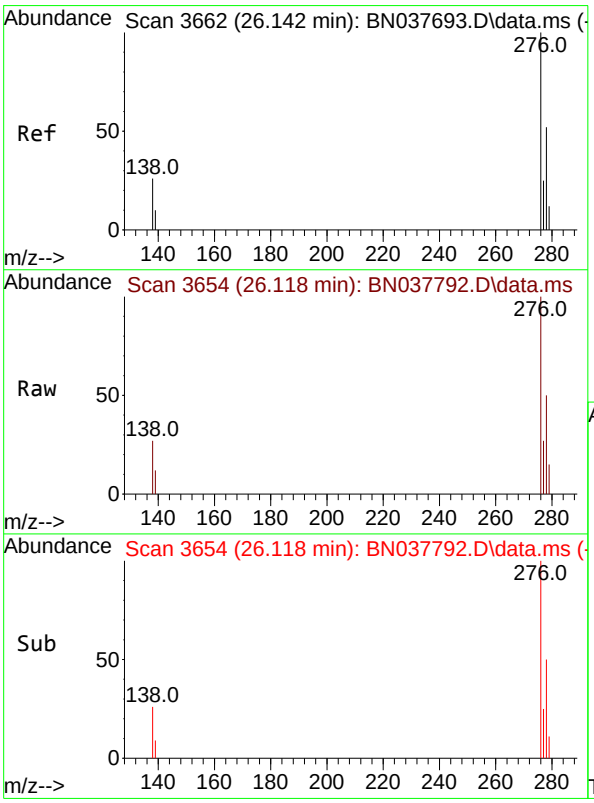
Ion	Ratio	Lower	Upper
264	100		
260	27.6	21.8	32.8
265	82.9	39.4	59.2



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

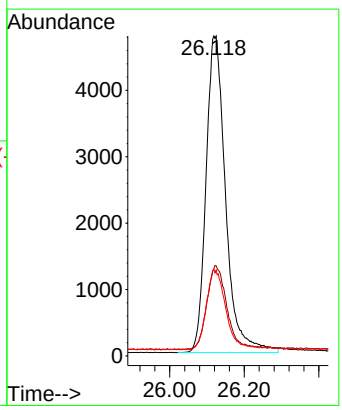
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

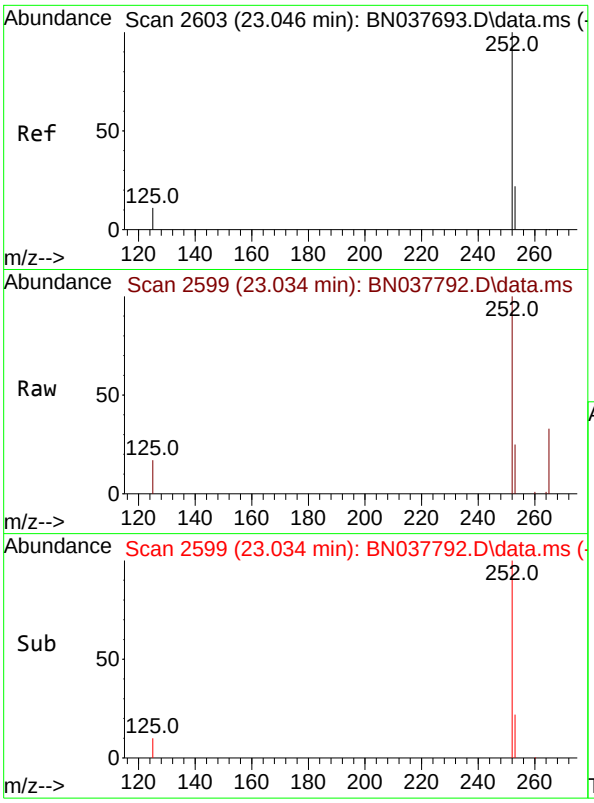


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.407 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.024 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:276 Resp: 17423

Ion	Ratio	Lower	Upper
276	100		
138	27.0	21.9	32.9
277	25.2	20.1	30.1

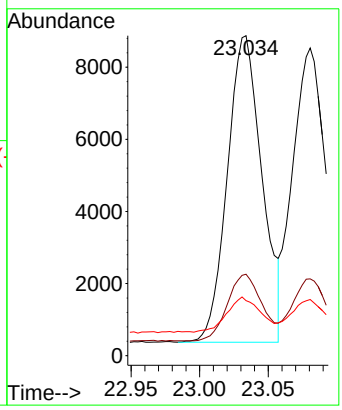




#37
Benzo(b)fluoranthene
Concen: 0.372 ng
RT: 23.034 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:252 Resp: 1495

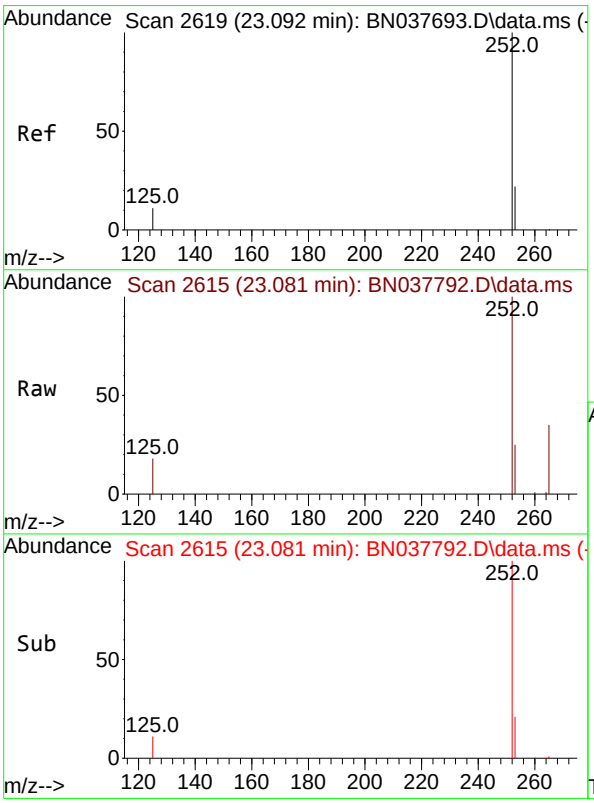
Ion	Ratio	Lower	Upper
252	100		
253	25.5	19.4	29.2
125	17.2	11.2	16.8#



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

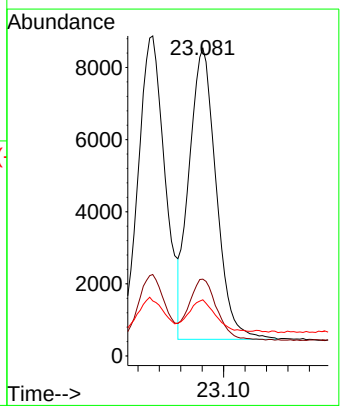
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

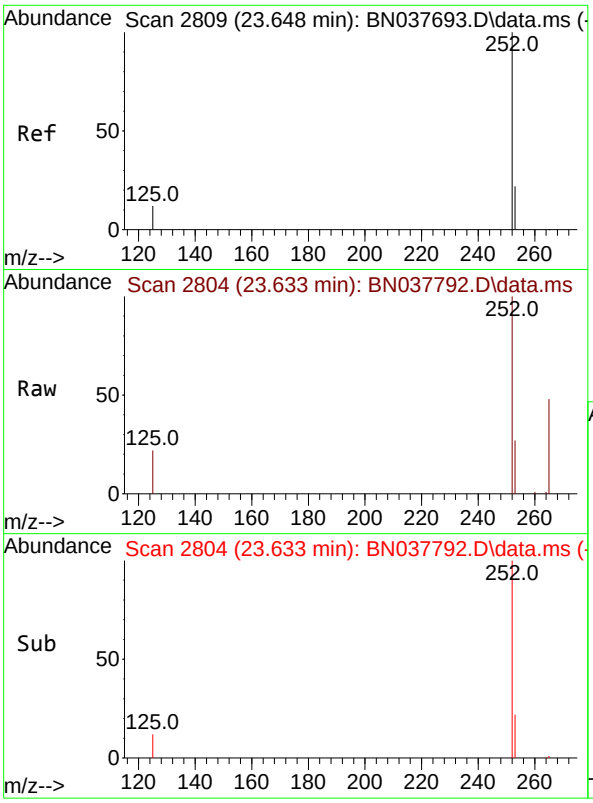


#38
Benzo(k)fluoranthene
Concen: 0.348 ng m
RT: 23.081 min Scan# 2615
Delta R.T. -0.012 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:252 Resp: 14241

Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.4	29.0
125	18.3	11.6	17.4#

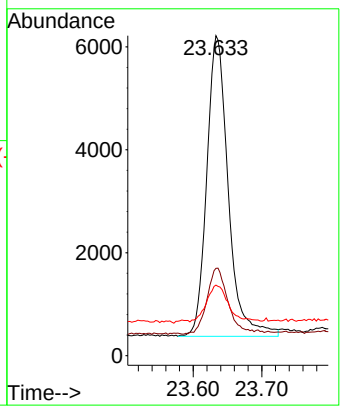




#39
Benzo(a)pyrene
Concen: 0.395 ng
RT: 23.633 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:252 Resp: 1271

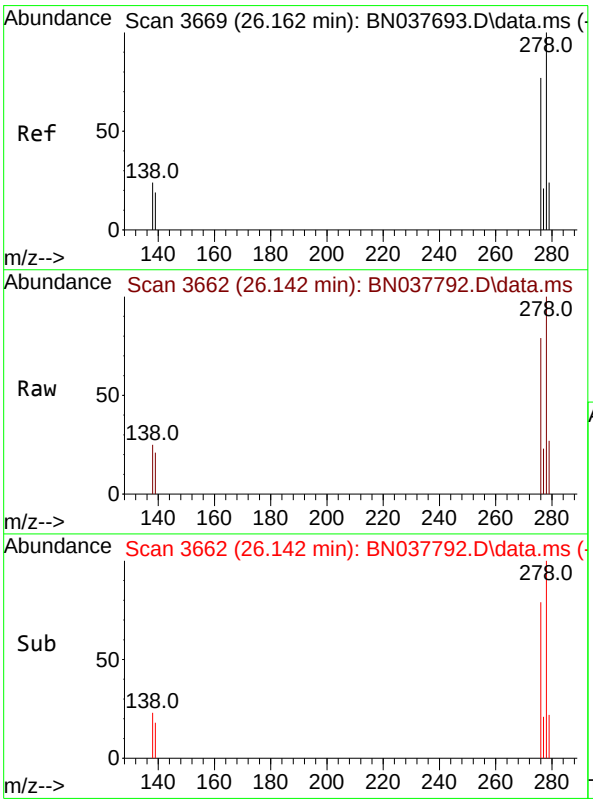
Ion	Ratio	Lower	Upper
252	100		
253	27.3	20.8	31.2
125	22.1	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

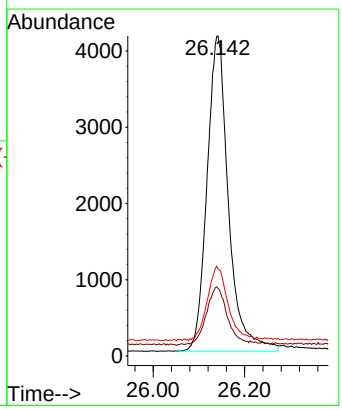
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

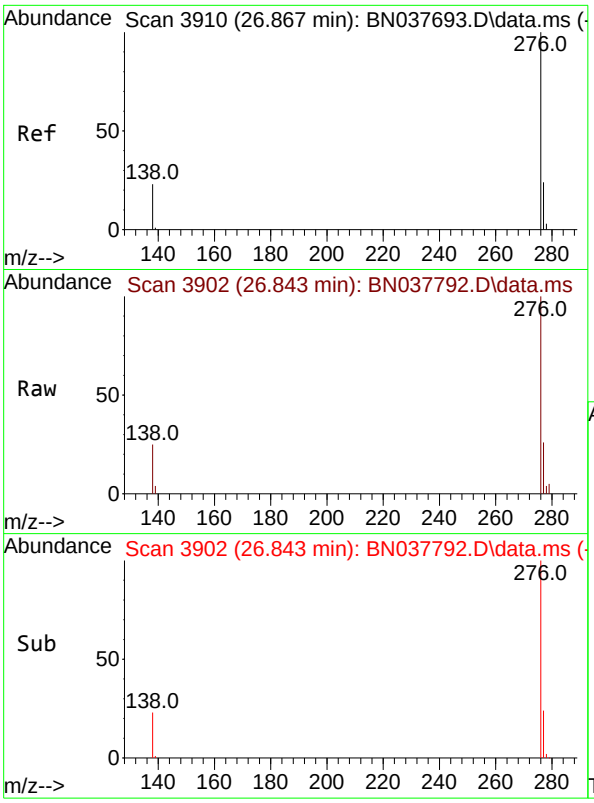


#40
Dibenzo(a,h)anthracene
Concen: 0.394 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.021 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:278 Resp: 13475

Ion	Ratio	Lower	Upper
278	100		
139	21.2	17.8	26.6
279	27.2	22.0	33.0

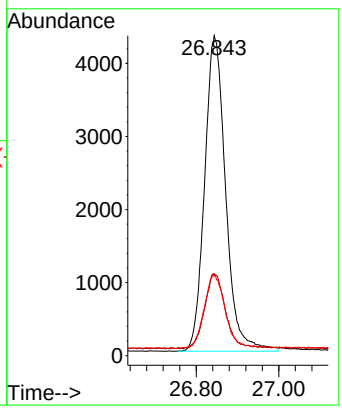




#41
Benzo(g,h,i)perylene
Concen: 0.398 ng
RT: 26.843 min Scan# 3
Delta R.T. -0.024 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:276 Resp: 1527

Ion	Ratio	Lower	Upper
276	100		
277	25.6	20.6	31.0
138	24.8	20.2	30.2



Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

Raw Data: **BN037885.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB169712BS	SDG No.:	Q3097
Lab Sample ID:	PB169712BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037885.D	1	09/16/25 09:39	09/25/25 12:44	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7080	7.818				
1146-65-2	Naphthalene-d8	19600	10.626				
15067-26-2	Acenaphthene-d10	9660	14.473				
1517-22-2	Phenanthrene-d10	19100	17.223				
1719-03-5	Chrysene-d12	15500	21.402				
1520-96-3	Perylene-d12	13100	23.733				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037885.D
Acq On : 25 Sep 2025 12:44
Operator : RC/JU
Sample : PB169712BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Quant Time: Sep 25 13:29:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

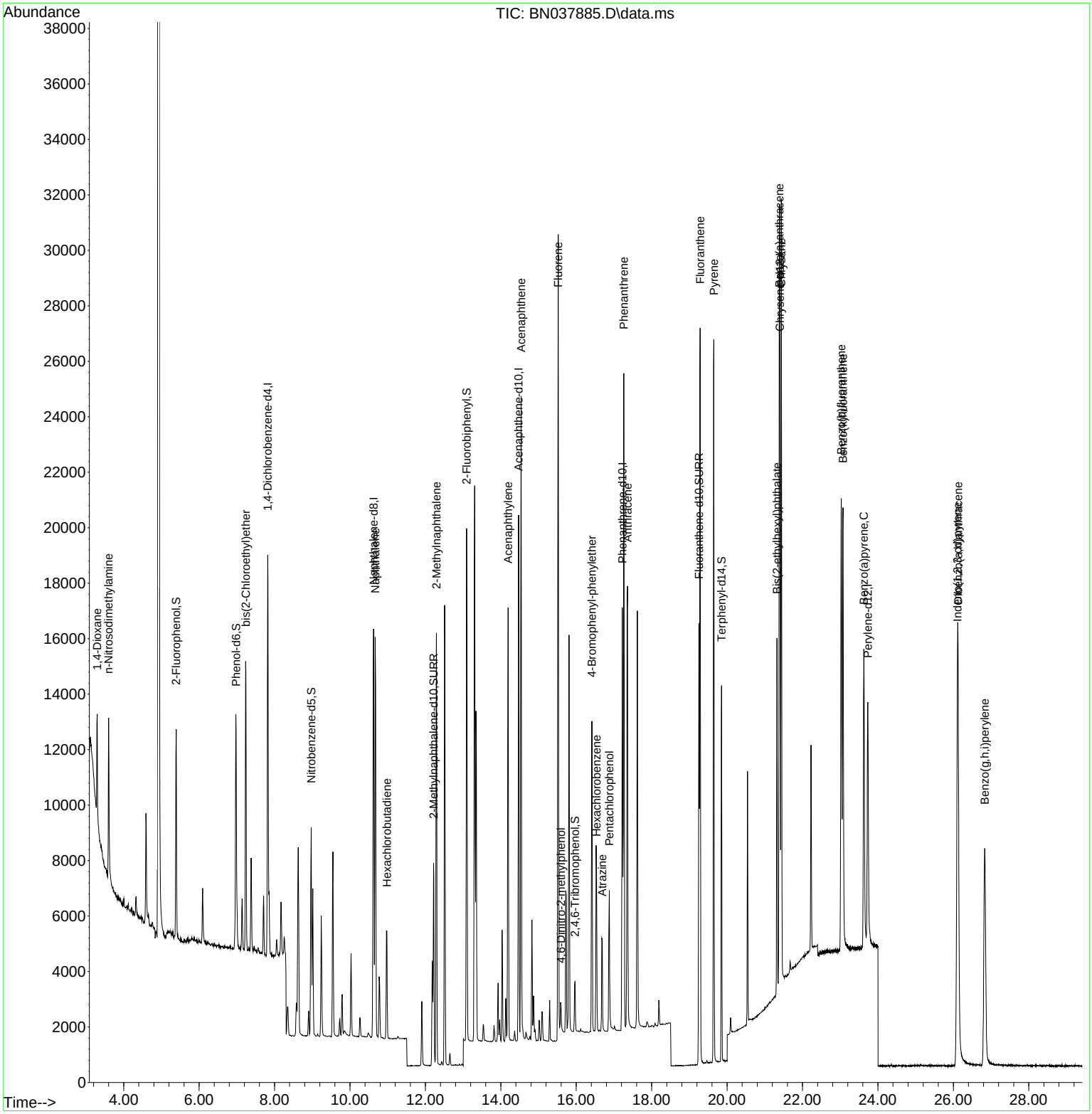
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	7082	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	19552	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	9660	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	19122	0.400	ng	0.00
29) Chrysene-d12	21.402	240	15460	0.400	ng	0.00
35) Perylene-d12	23.733	264	13073	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5925	0.367	ng	0.00
5) Phenol-d6	6.981	99	7709	0.363	ng	0.00
8) Nitrobenzene-d5	8.971	82	5697	0.382	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	9582	0.353	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1148	0.313	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	15472	0.391	ng	0.00
27) Fluoranthene-d10	19.253	212	16458	0.342	ng	0.00
31) Terphenyl-d14	19.852	244	12280	0.399	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	2267	0.315	ng	# 63
3) n-Nitrosodimethylamine	3.601	42	3436	0.359	ng	# 91
6) bis(2-Chloroethyl)ether	7.241	93	7371	0.374	ng	99
9) Naphthalene	10.669	128	19377	0.360	ng	100
10) Hexachlorobutadiene	10.979	225	3383	0.368	ng	# 98
12) 2-Methylnaphthalene	12.293	142	11047	0.314	ng	99
16) Acenaphthylene	14.195	152	16873	0.385	ng	100
17) Acenaphthene	14.537	154	10998	0.352	ng	99
18) Fluorene	15.523	166	13577	0.359	ng	97
20) 4,6-Dinitro-2-methylph...	15.597	198	798	0.392	ng	97
21) 4-Bromophenyl-phenylether	16.416	248	4261	0.342	ng	100
22) Hexachlorobenzene	16.540	284	5565	0.368	ng	100
23) Atrazine	16.689	200	3072	0.324	ng	98
24) Pentachlorophenol	16.876	266	2586	0.499	ng	94
25) Phenanthrene	17.260	178	22894	0.364	ng	99
26) Anthracene	17.360	178	19907	0.365	ng	100
28) Fluoranthene	19.285	202	23355	0.337	ng	99
30) Pyrene	19.647	202	23008	0.377	ng	100
32) Benzo(a)anthracene	21.384	228	20382	0.377	ng	99
33) Chrysene	21.438	228	22553	0.386	ng	99
34) Bis(2-ethylhexyl)phtha...	21.322	149	6759	0.316	ng	99
36) Indeno(1,2,3-cd)pyrene	26.107	276	21870	0.366	ng	99
37) Benzo(b)fluoranthene	23.028	252	21060	0.374	ng	99
38) Benzo(k)fluoranthene	23.072	252	21159	0.373	ng	99
39) Benzo(a)pyrene	23.628	252	17352	0.389	ng	99
40) Dibenzo(a,h)anthracene	26.124	278	16856	0.361	ng	99
41) Benzo(g,h,i)perylene	26.832	276	17953	0.366	ng	99

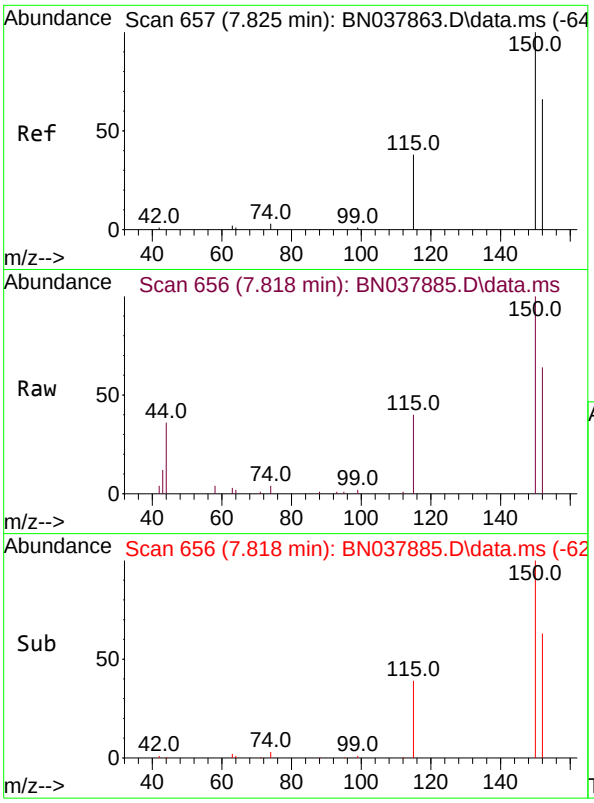
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037885.D
Acq On : 25 Sep 2025 12:44
Operator : RC/JU
Sample : PB169712BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Quant Time: Sep 25 13:29:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



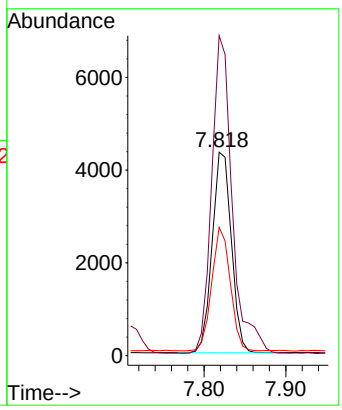


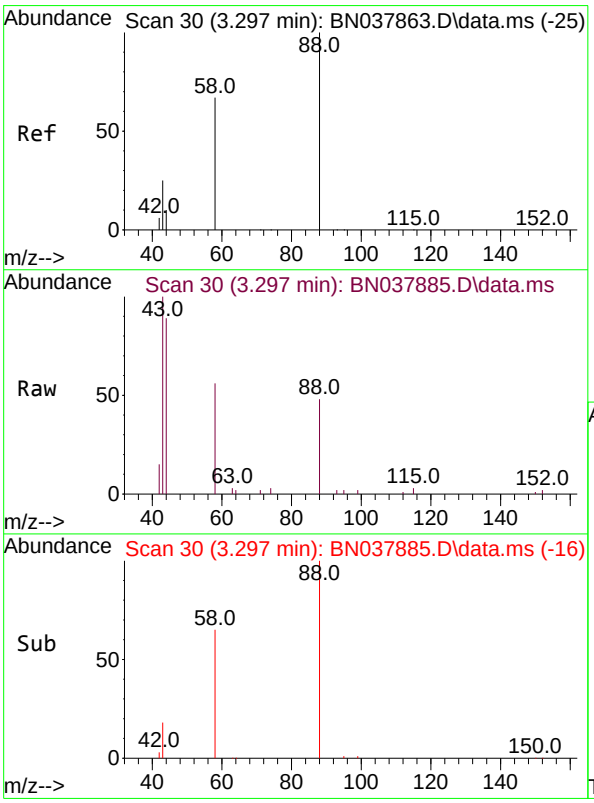
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:152 Resp: 7082

Ion	Ratio	Lower	Upper
152	100		
150	157.3	121.0	181.4
115	63.1	47.4	71.0

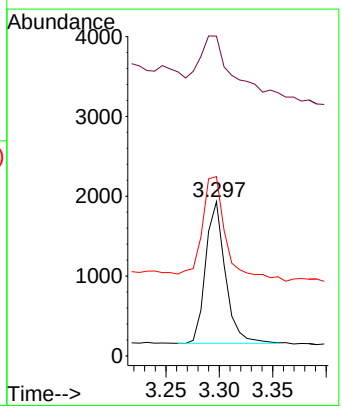


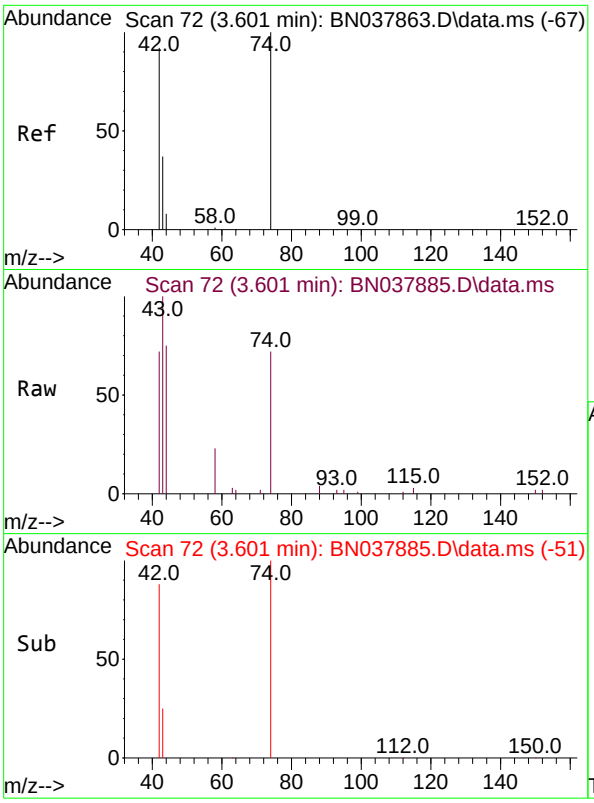


#2
1,4-Dioxane
Concen: 0.315 ng
RT: 3.297 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion: 88 Resp: 2267

Ion	Ratio	Lower	Upper
88	100		
43	72.5	26.6	39.8#
58	92.1	58.9	88.3#



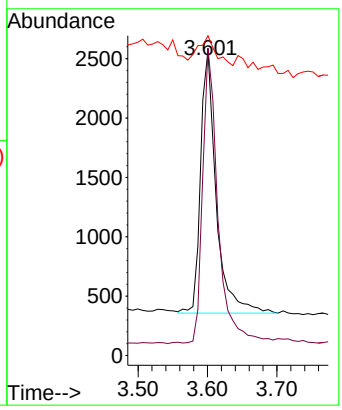


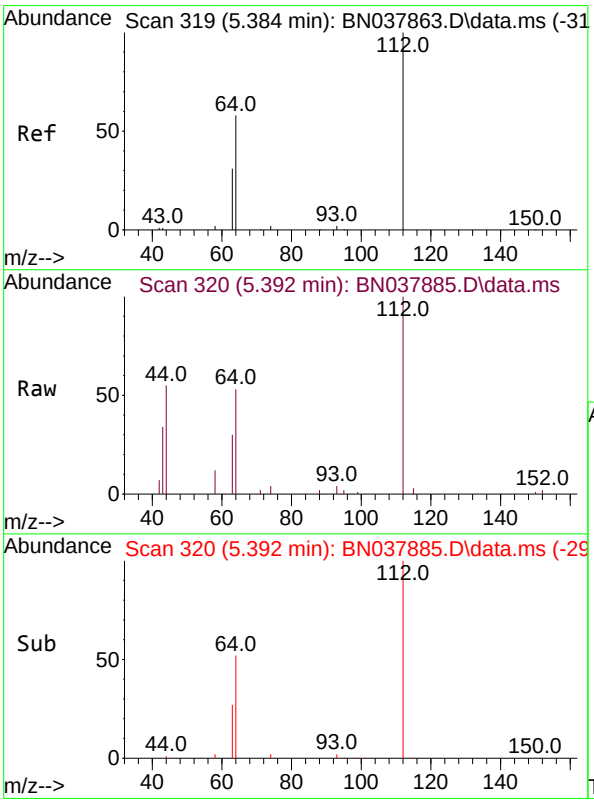
#3
n-Nitrosodimethylamine
Concen: 0.359 ng
RT: 3.601 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion: 42 Resp: 3436

Ion	Ratio	Lower	Upper
42	100		
74	111.8	93.4	140.0
44	12.7	22.2	33.4#

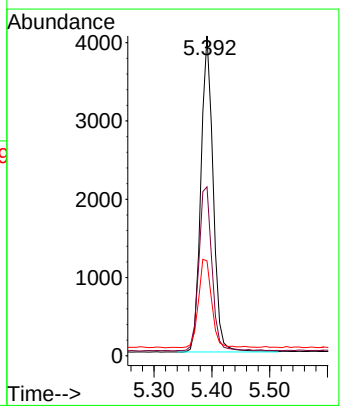


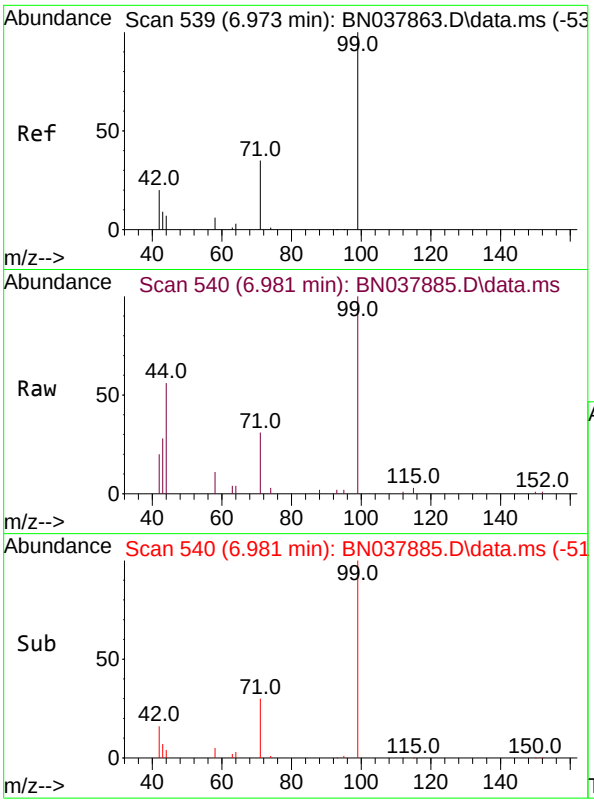


#4
2-Fluorophenol
Concen: 0.367 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:112 Resp: 5925

Ion	Ratio	Lower	Upper
112	100		
64	55.0	44.6	66.8
63	29.8	24.9	37.3



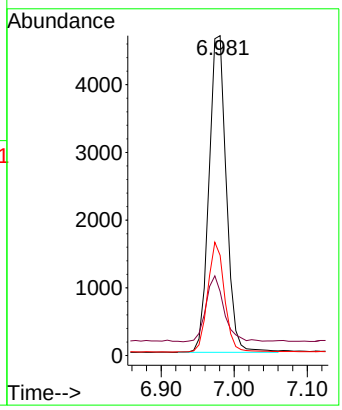


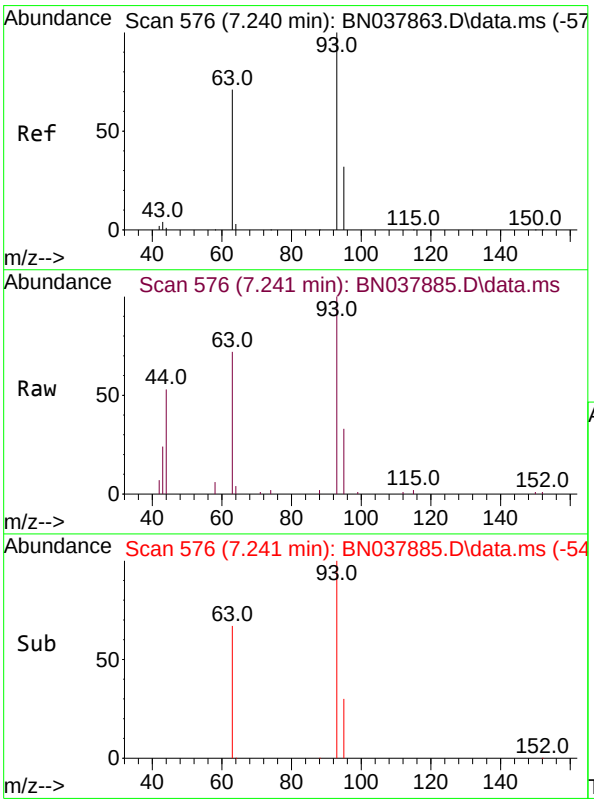
#5
Phenol-d6
Concen: 0.363 ng
RT: 6.981 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion: 99 Resp: 7709

Ion	Ratio	Lower	Upper
99	100		
42	21.9	17.2	25.8
71	33.7	27.3	40.9

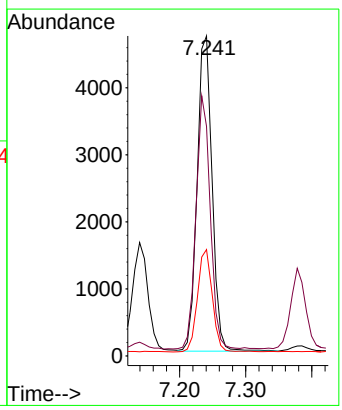


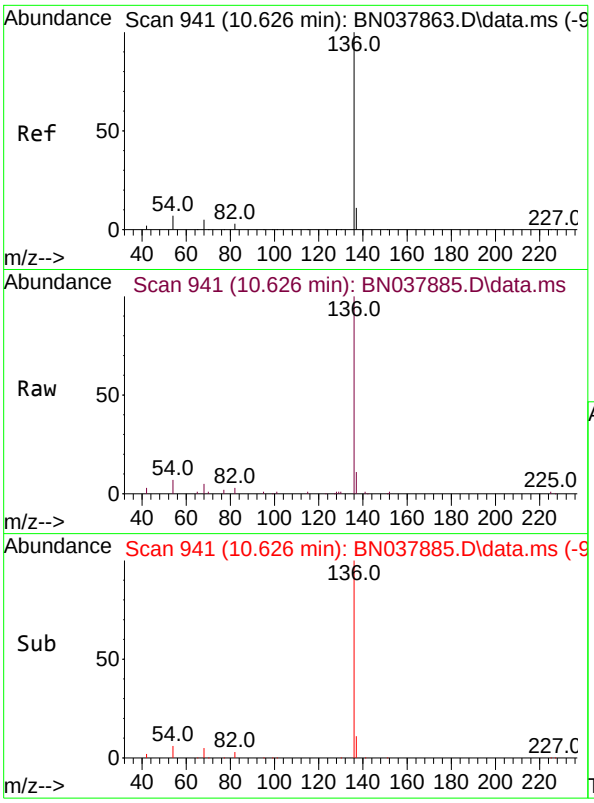


#6
bis(2-Chloroethyl)ether
Concen: 0.374 ng
RT: 7.241 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion: 93 Resp: 7371

Ion	Ratio	Lower	Upper
93	100		
63	76.5	60.1	90.1
95	32.2	25.4	38.2



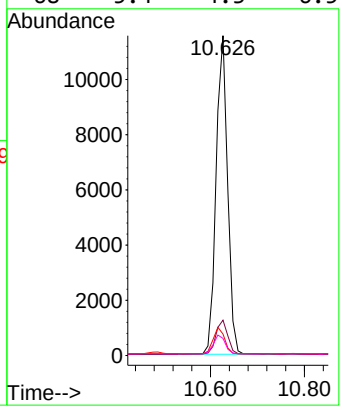


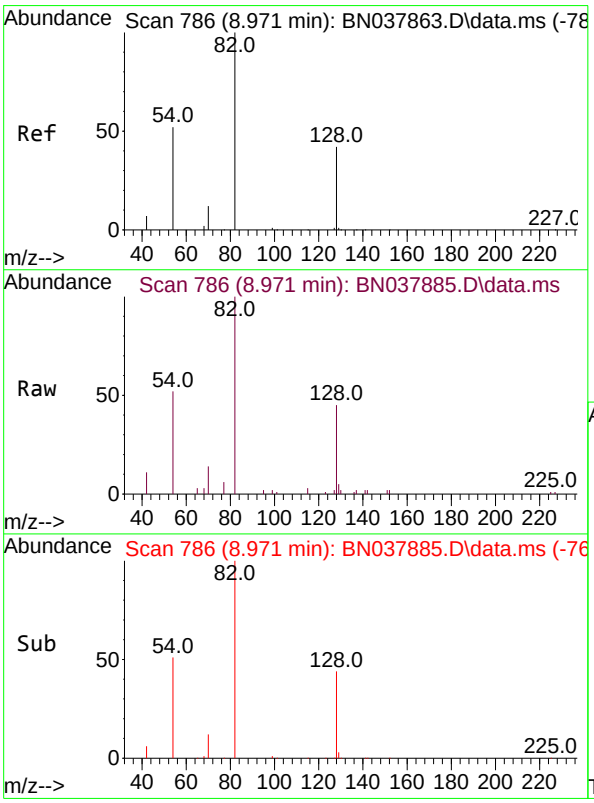
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:136 Resp: 19552

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	6.7	5.8	8.8
68	5.4	4.3	6.5

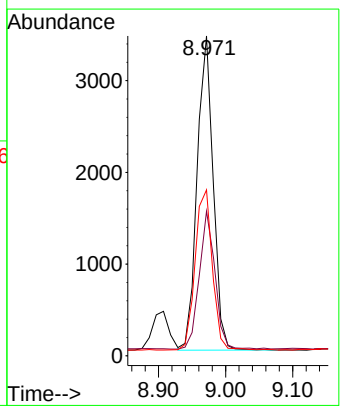


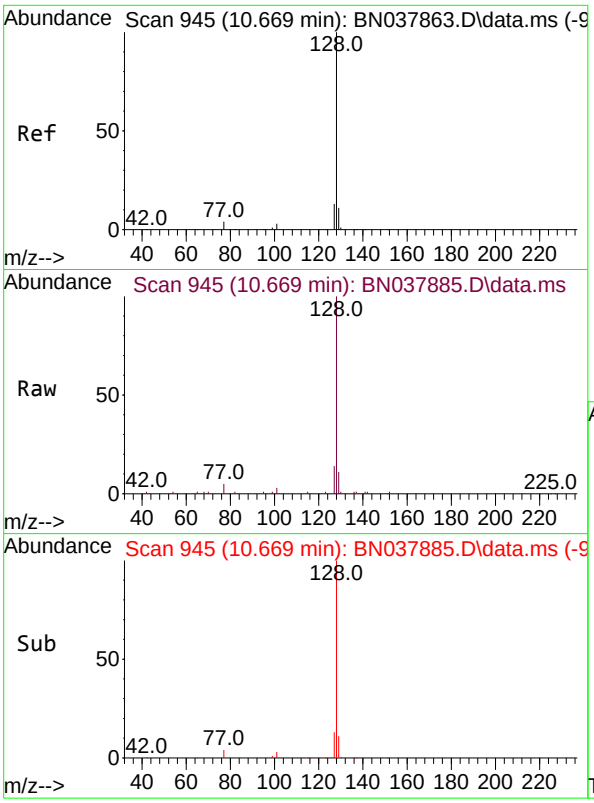


#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion: 82 Resp: 5697

Ion	Ratio	Lower	Upper
82	100		
128	45.2	34.8	52.2
54	51.9	42.2	63.2



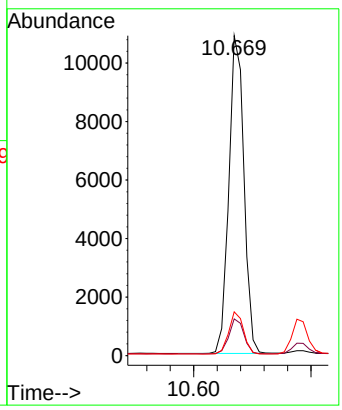


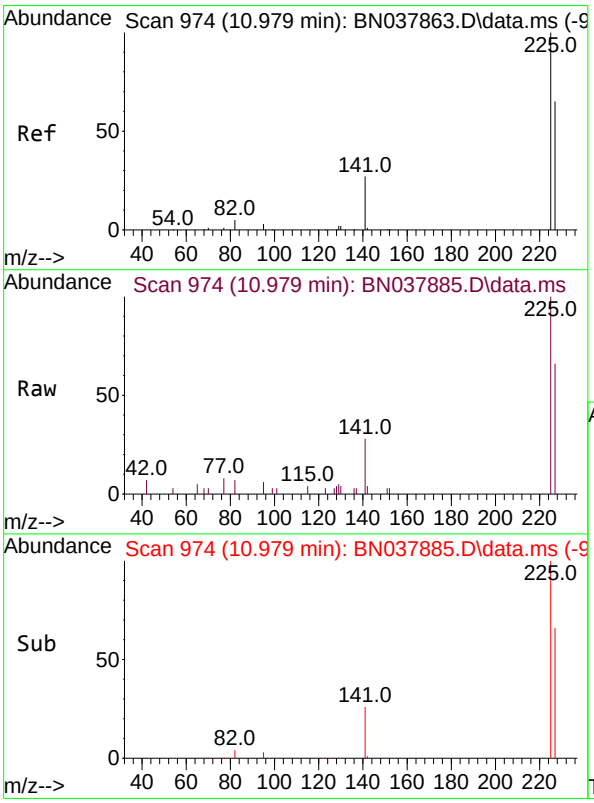
#9
Naphthalene
Concen: 0.360 ng
RT: 10.669 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:128 Resp: 19377

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	13.7	11.0	16.6

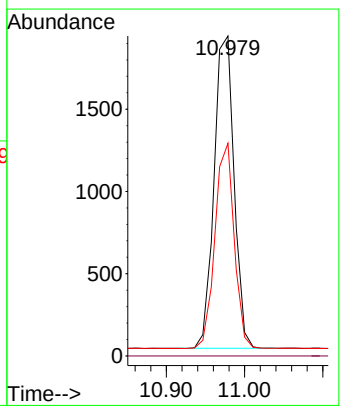


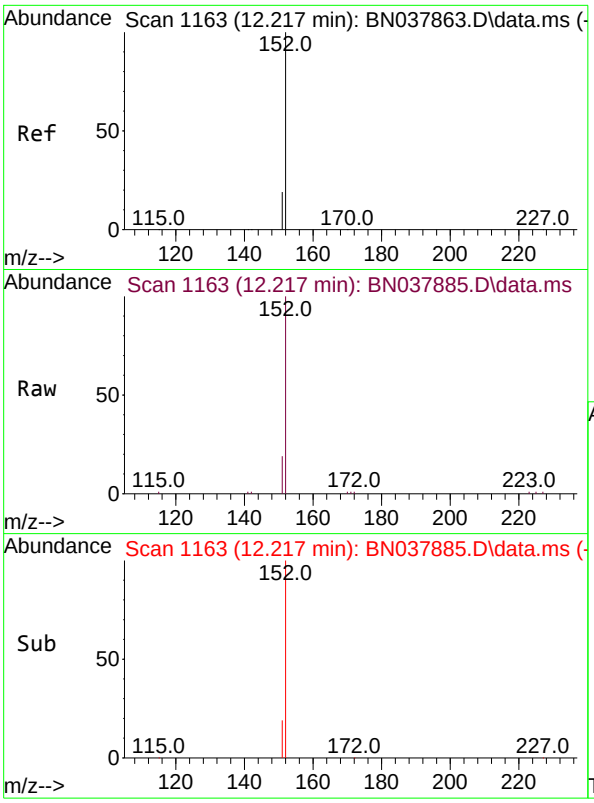


#10
Hexachlorobutadiene
Concen: 0.368 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:225 Resp: 3383

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.1	51.4	77.2



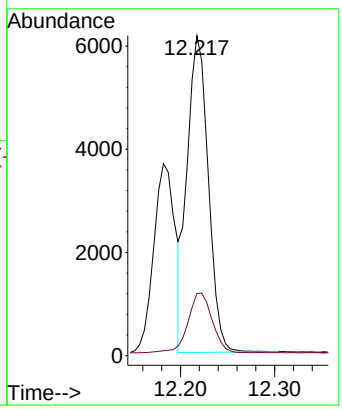


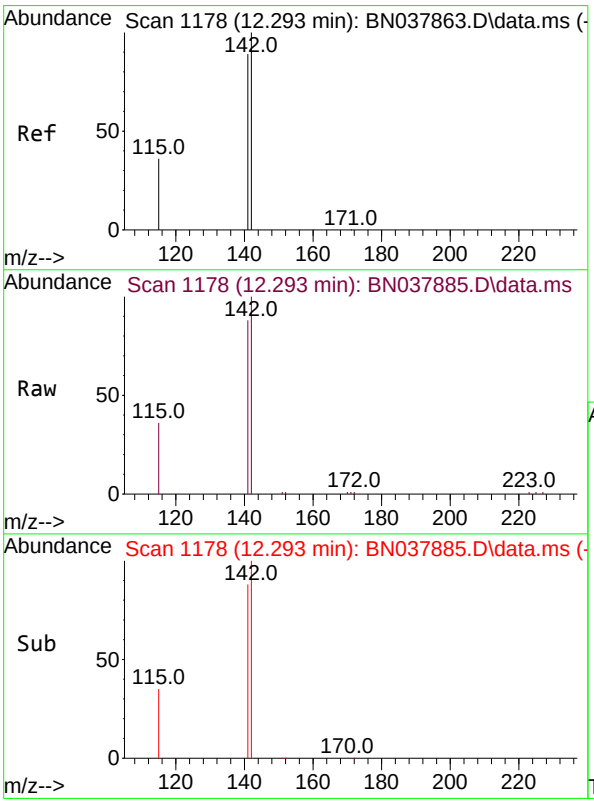
#11
2-Methylnaphthalene-d10
Concen: 0.353 ng
RT: 12.217 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:152 Resp: 9582

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.4	26.2

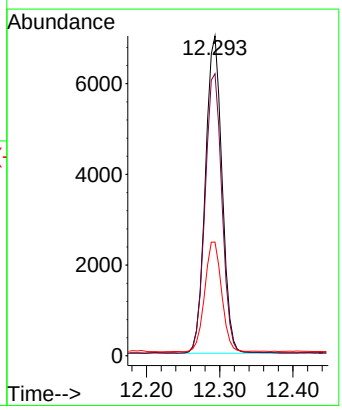


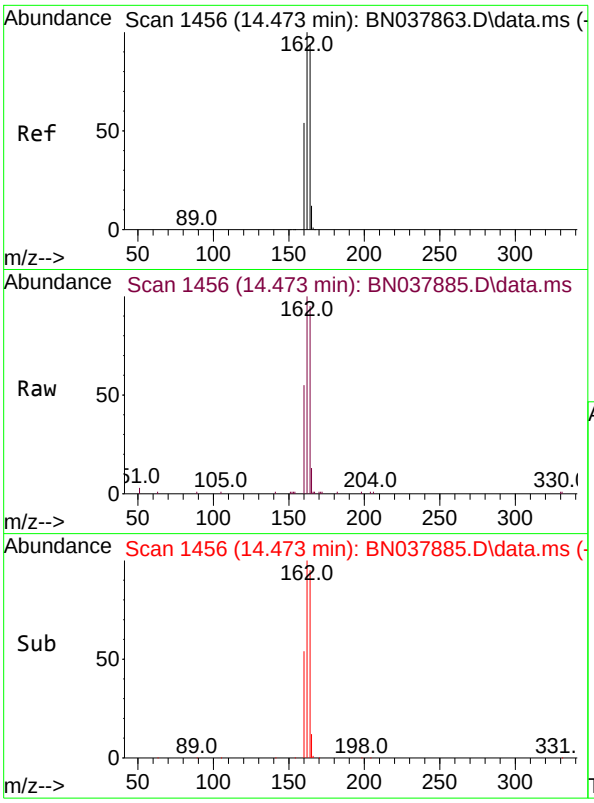


#12
2-Methylnaphthalene
Concen: 0.314 ng
RT: 12.293 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:142 Resp: 11047

Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.2	106.8
115	35.6	29.7	44.5



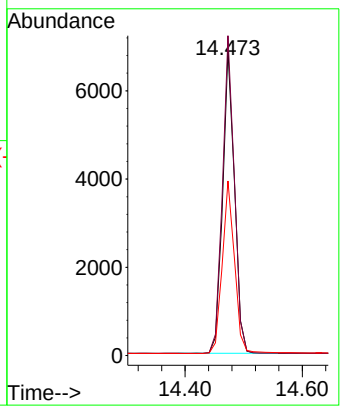


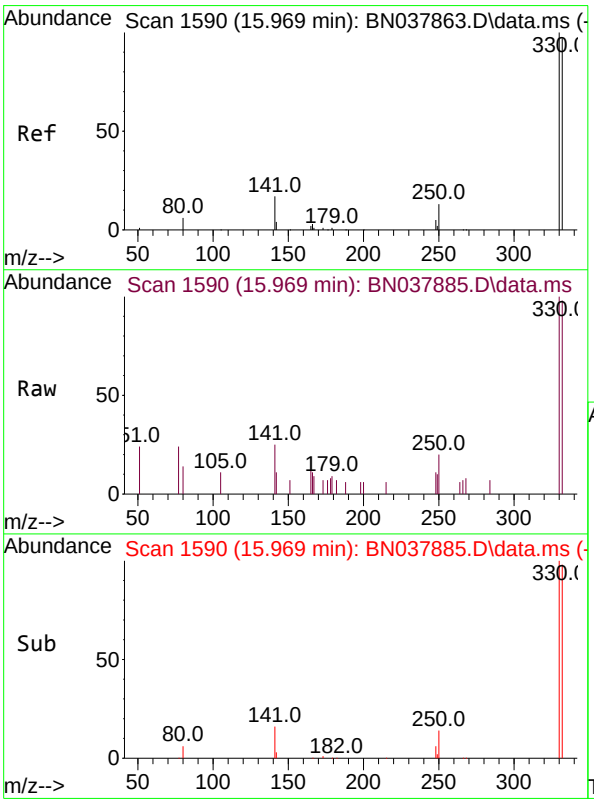
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:164 Resp: 9660

Ion	Ratio	Lower	Upper
164	100		
162	104.9	84.8	127.2
160	57.3	46.1	69.1

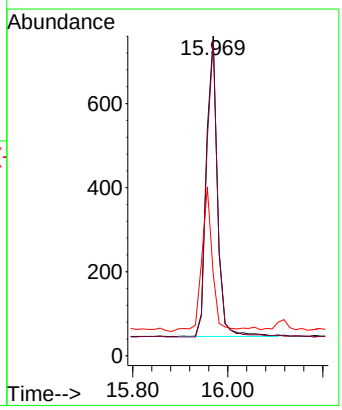


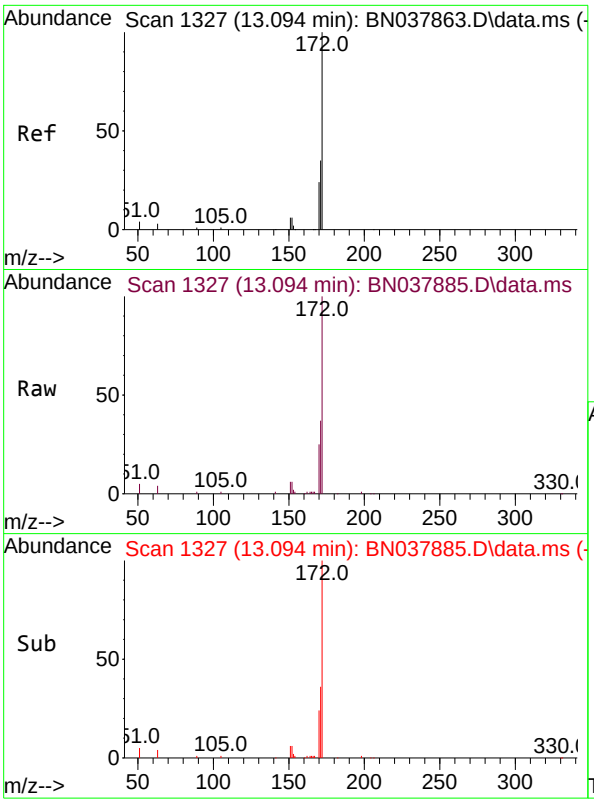


#14
2,4,6-Tribromophenol
Concen: 0.313 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:330 Resp: 1148

Ion	Ratio	Lower	Upper
330	100		
332	98.3	77.2	115.8
141	46.7	37.2	55.8



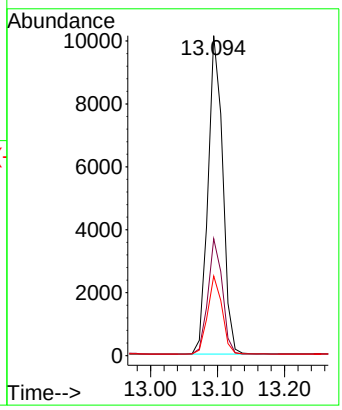


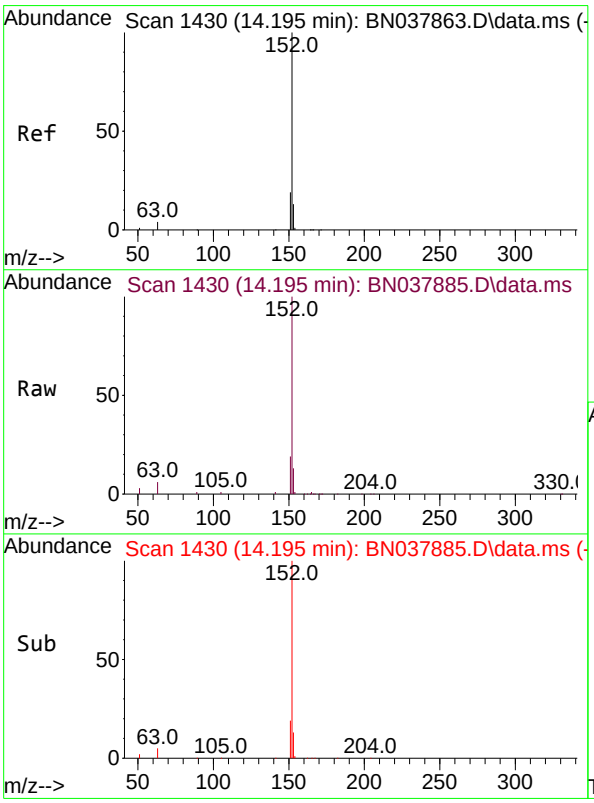
#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 13.094 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:172 Resp: 15472

Ion	Ratio	Lower	Upper
172	100		
171	36.5	28.6	43.0
170	24.9	19.7	29.5

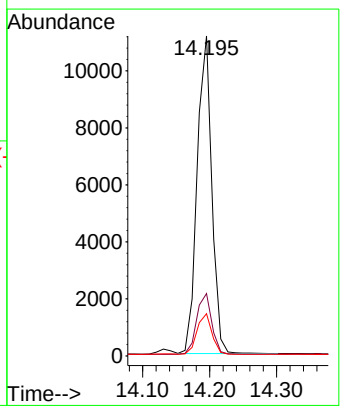


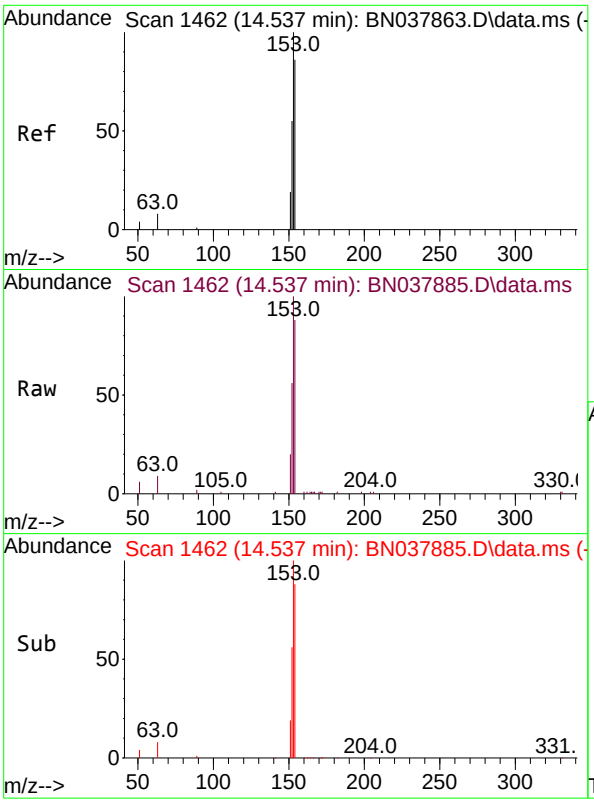


#16
Acenaphthylene
Concen: 0.385 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:152 Resp: 16873

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.8
153	12.9	10.5	15.7



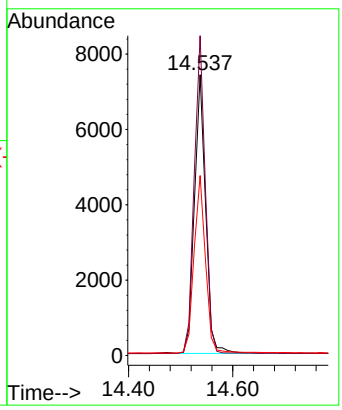


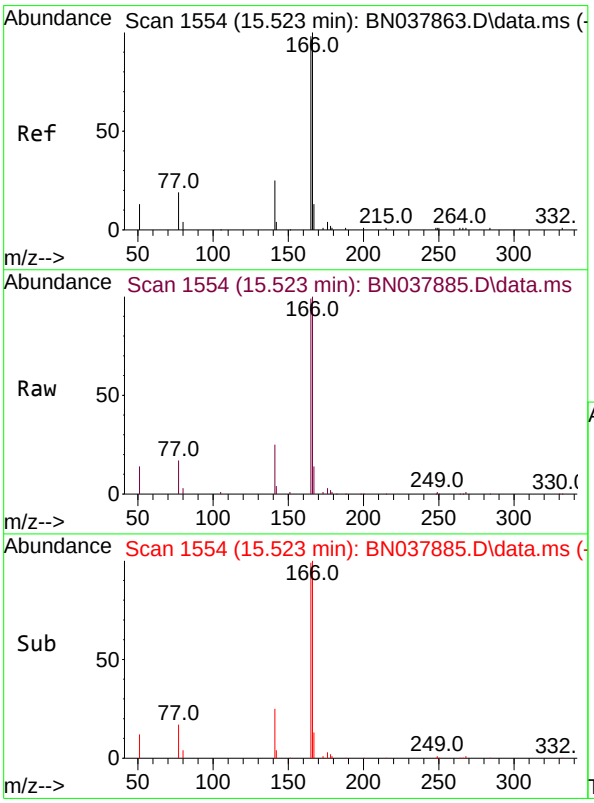
#17
Acenaphthene
Concen: 0.352 ng
RT: 14.537 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:154 Resp: 10998

Ion	Ratio	Lower	Upper
154	100		
153	112.2	90.5	135.7
152	65.5	51.8	77.8

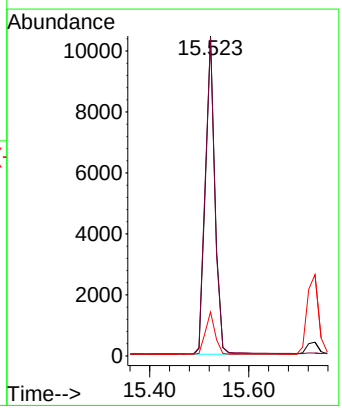


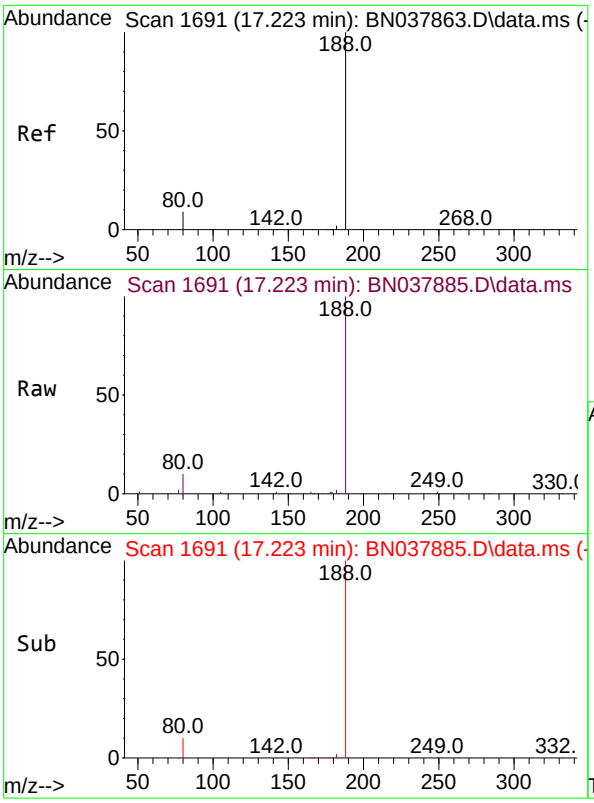


#18
Fluorene
Concen: 0.359 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:166 Resp: 13577

Ion	Ratio	Lower	Upper
166	100		
165	101.9	79.0	118.4
167	13.3	10.6	16.0



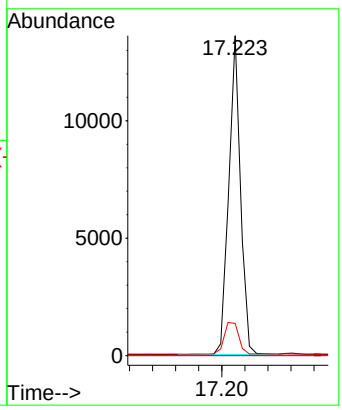


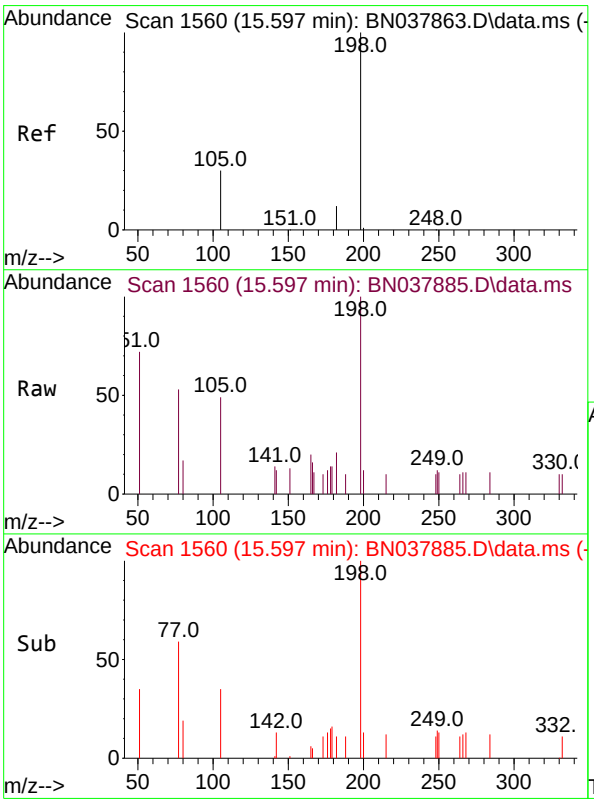
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:188 Resp: 19122

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	7.6	11.4

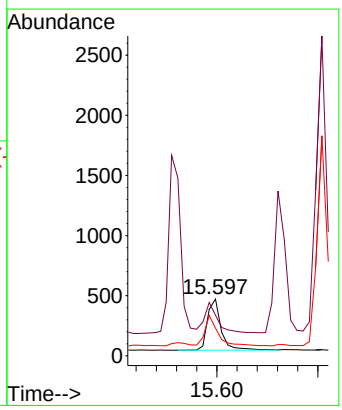


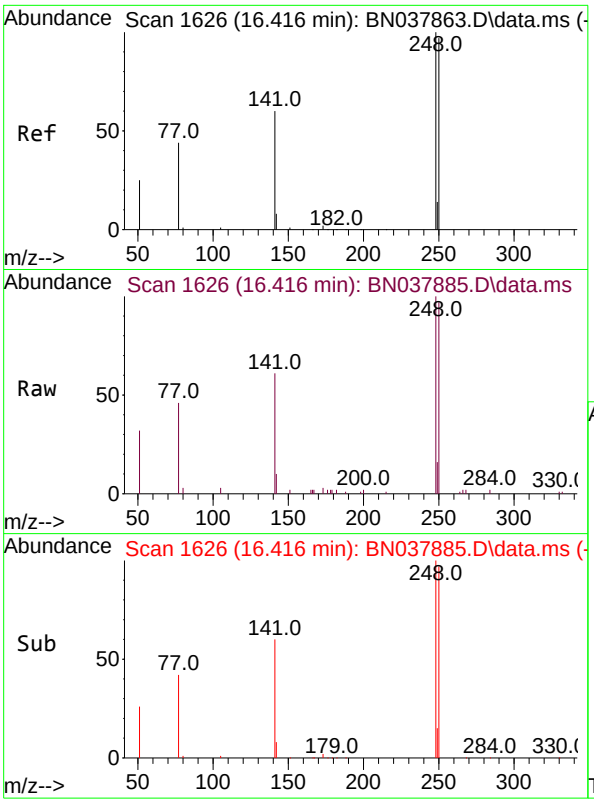


#20
4,6-Dinitro-2-methylphenol
Concen: 0.392 ng
RT: 15.597 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:198 Resp: 798

Ion	Ratio	Lower	Upper
198	100		
51	71.7	59.1	88.7
105	48.8	41.3	61.9



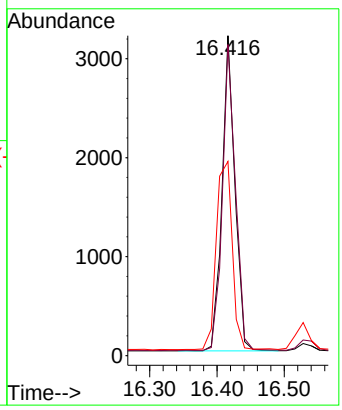


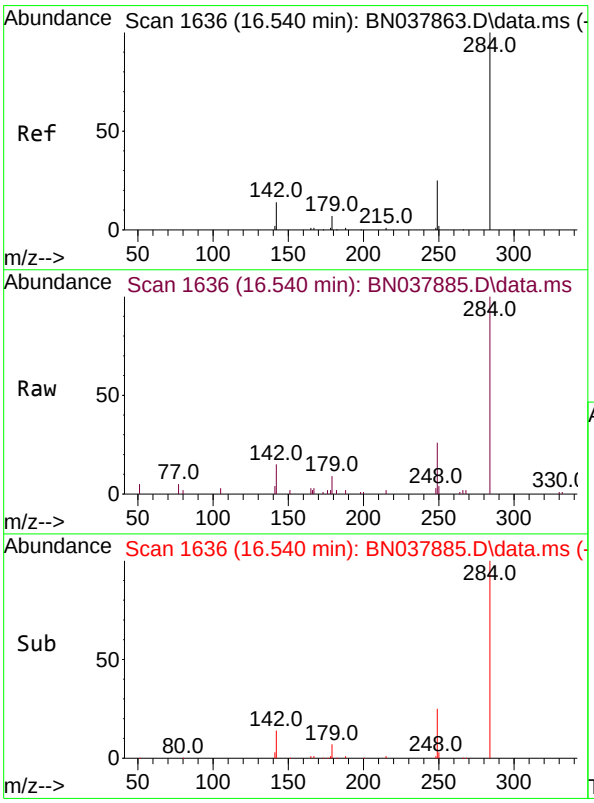
#21
4-Bromophenyl-phenylether
Concen: 0.342 ng
RT: 16.416 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:248 Resp: 4261

Ion	Ratio	Lower	Upper
248	100		
250	97.2	77.6	116.4
141	60.7	48.8	73.2

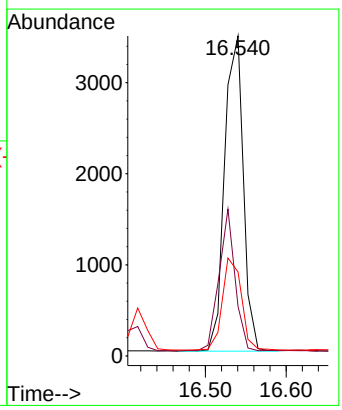


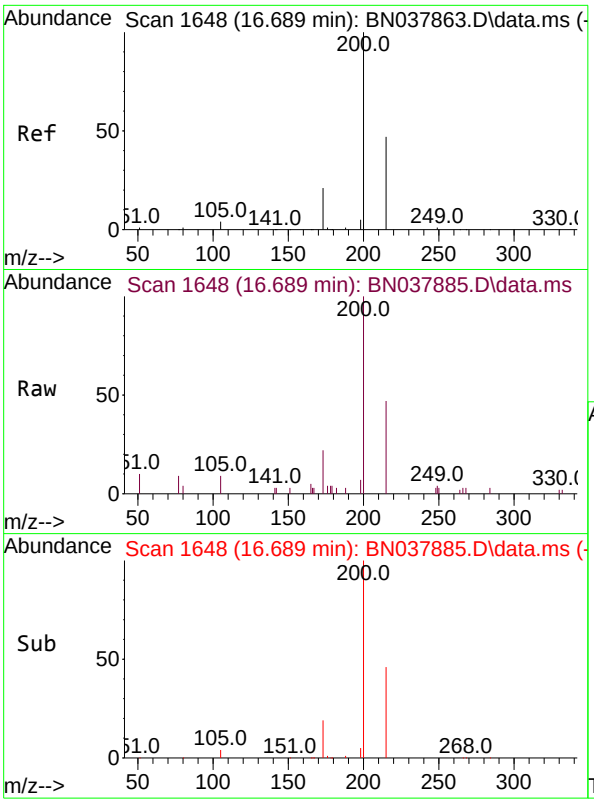


#22
Hexachlorobenzene
Concen: 0.368 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:284 Resp: 5565

Ion	Ratio	Lower	Upper
284	100		
142	38.6	30.9	46.3
249	29.8	23.9	35.9



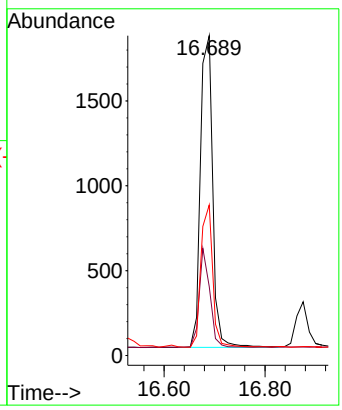


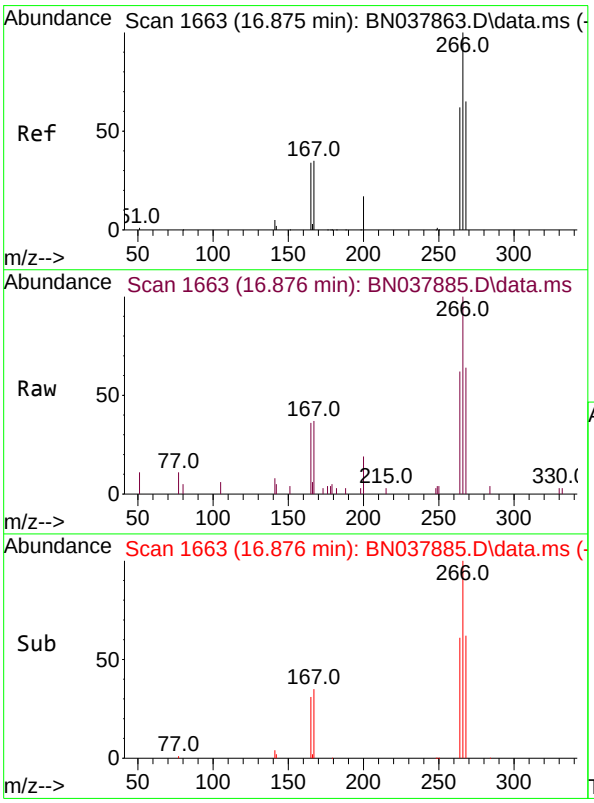
#23
Atrazine
Concen: 0.324 ng
RT: 16.689 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:200 Resp: 3072

Ion	Ratio	Lower	Upper
200	100		
173	21.5	18.3	27.5
215	47.1	38.6	58.0

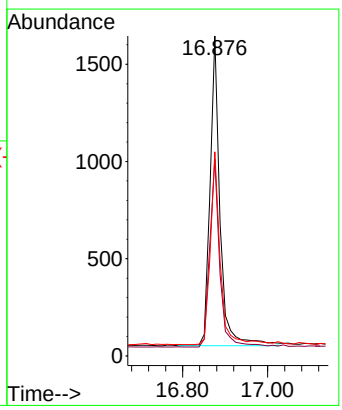


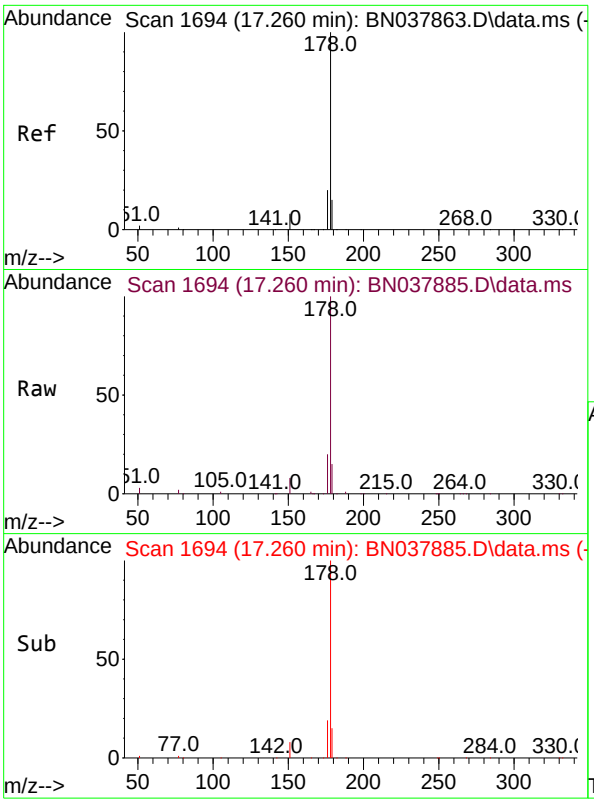


#24
Pentachlorophenol
Concen: 0.499 ng
RT: 16.876 min Scan# 1663
Delta R.T. 0.001 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:266 Resp: 2586

Ion	Ratio	Lower	Upper
266	100		
264	60.8	50.9	76.3
268	61.9	54.3	81.5



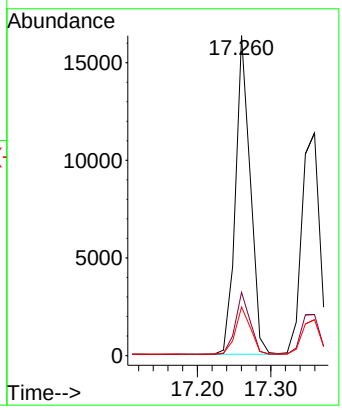


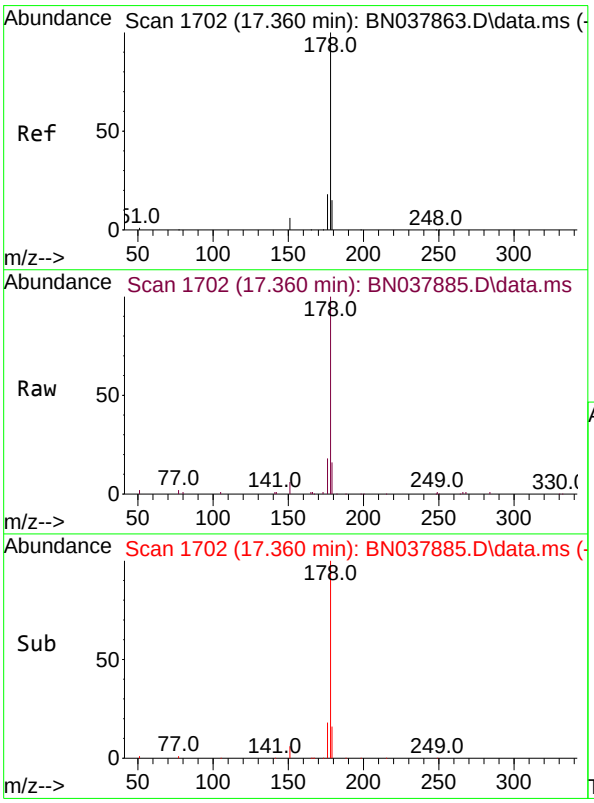
#25
Phenanthrene
Concen: 0.364 ng
RT: 17.260 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:178 Resp: 22894

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.7	23.5
179	15.2	12.3	18.5

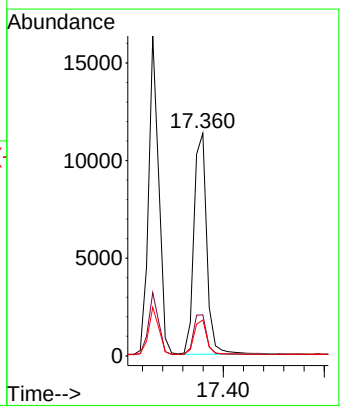


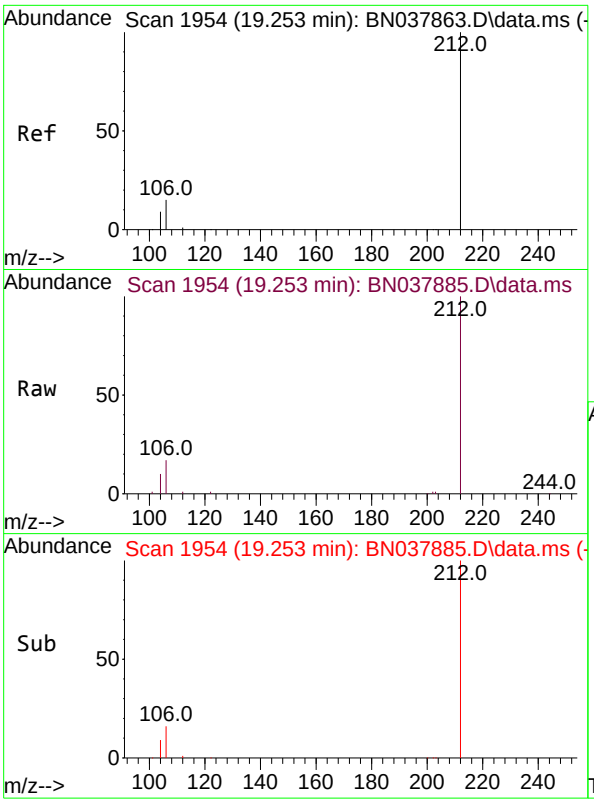


#26
Anthracene
Concen: 0.365 ng
RT: 17.360 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:178 Resp: 19907

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.5	12.3	18.5



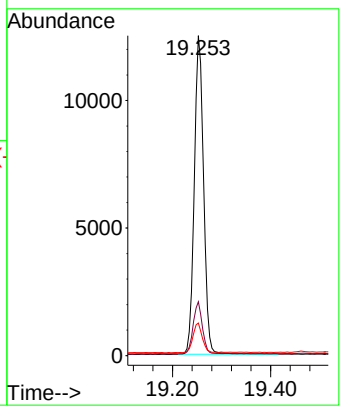


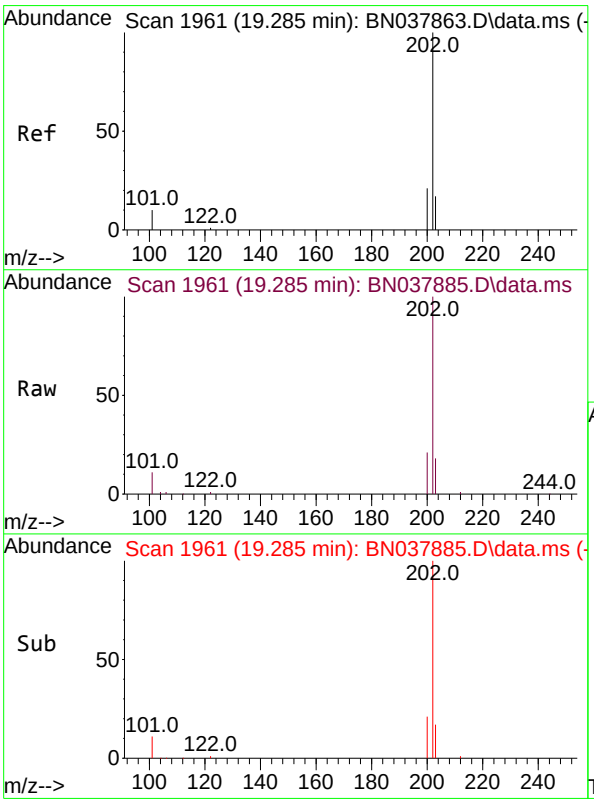
#27
Fluoranthene-d10
Concen: 0.342 ng
RT: 19.253 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:212 Resp: 16458

Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.6	19.0
104	9.3	7.4	11.0

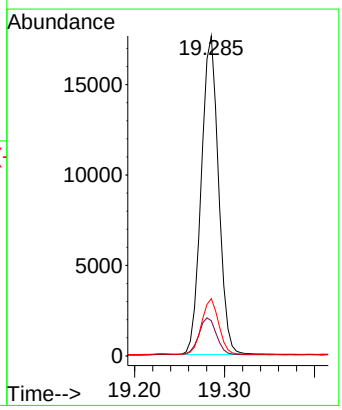


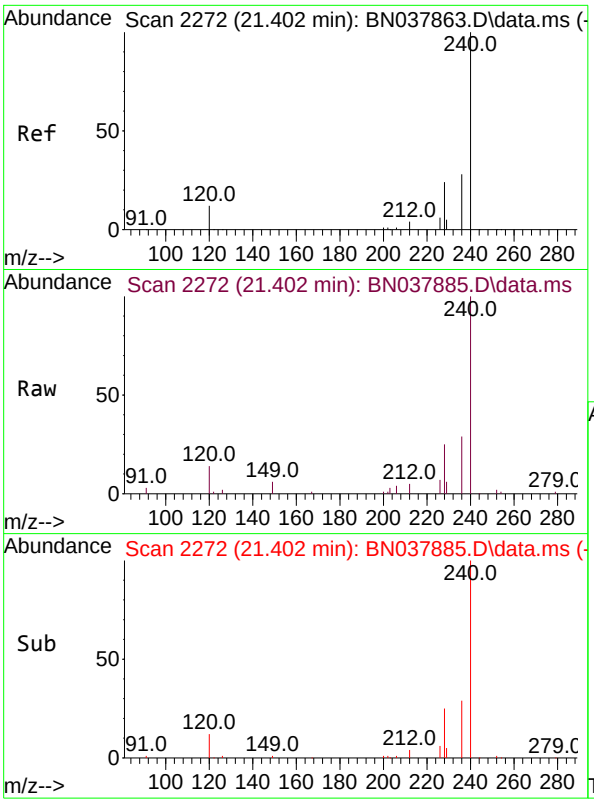


#28
Fluoranthene
Concen: 0.337 ng
RT: 19.285 min Scan# 1961
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:202 Resp: 23355

Ion	Ratio	Lower	Upper
202	100		
101	12.3	9.3	13.9
203	17.3	13.6	20.4



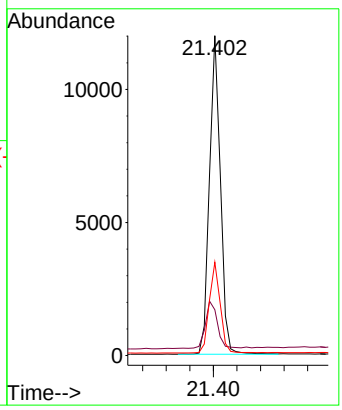


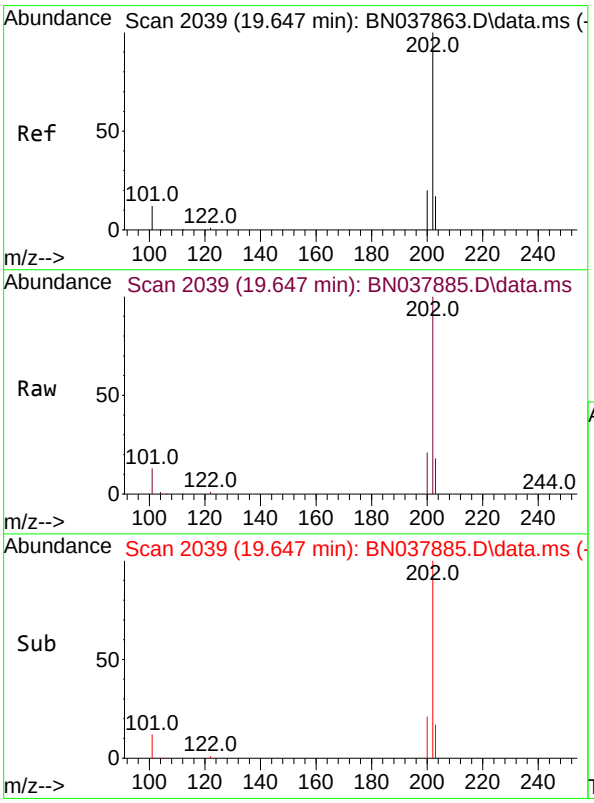
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:240 Resp: 15460

Ion	Ratio	Lower	Upper
240	100		
120	14.3	11.4	17.2
236	29.2	23.0	34.6

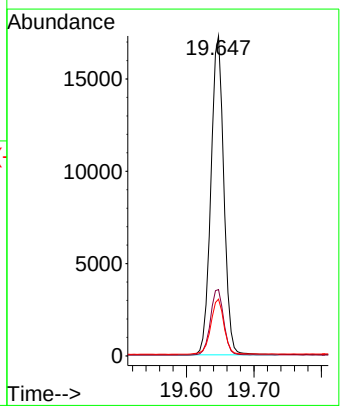


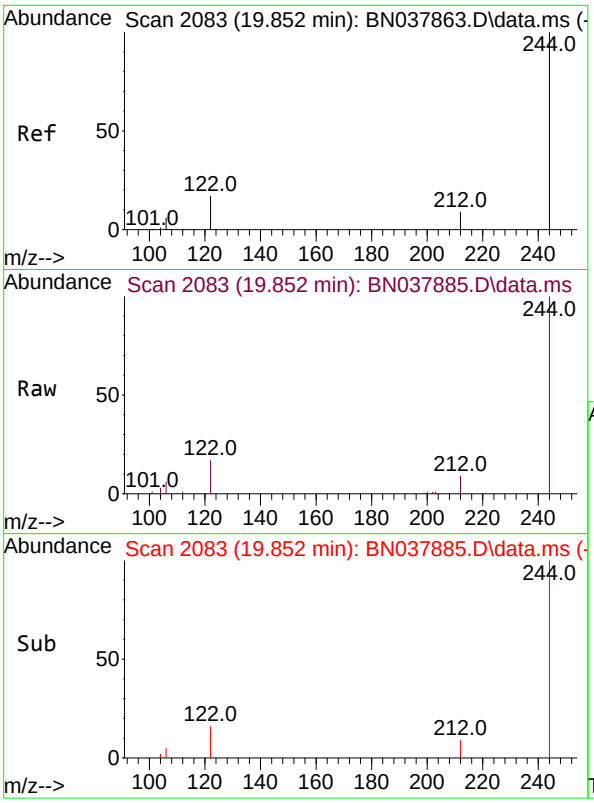


#30
Pyrene
Concen: 0.377 ng
RT: 19.647 min Scan# 2039
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:202 Resp: 23008

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.8	14.2	21.4



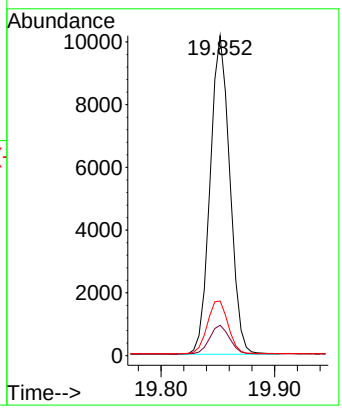


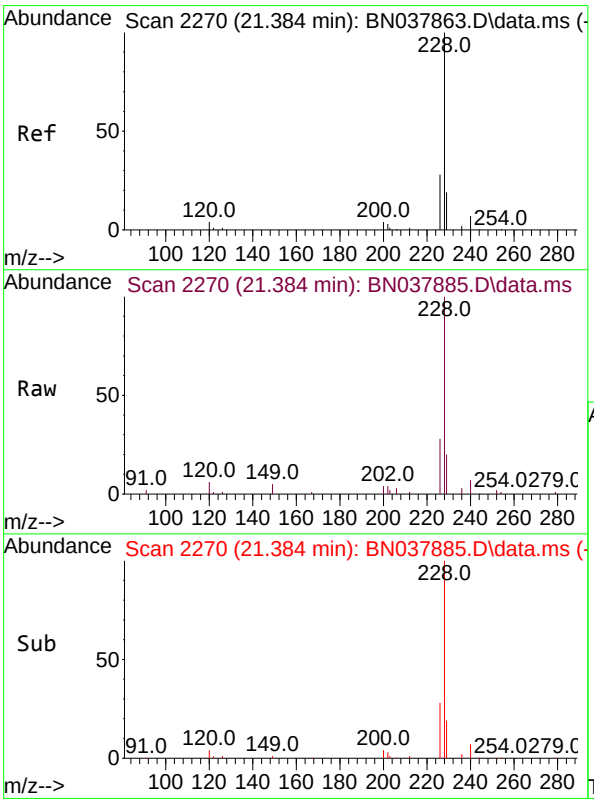
#31
Terphenyl-d14
Concen: 0.399 ng
RT: 19.852 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:244 Resp: 12280

Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.1	13.9	20.9

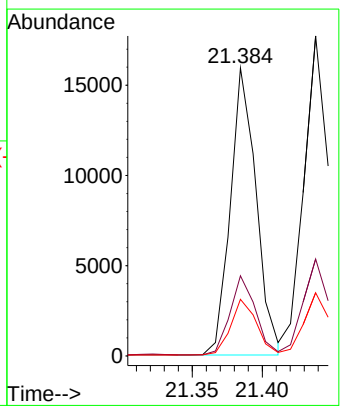


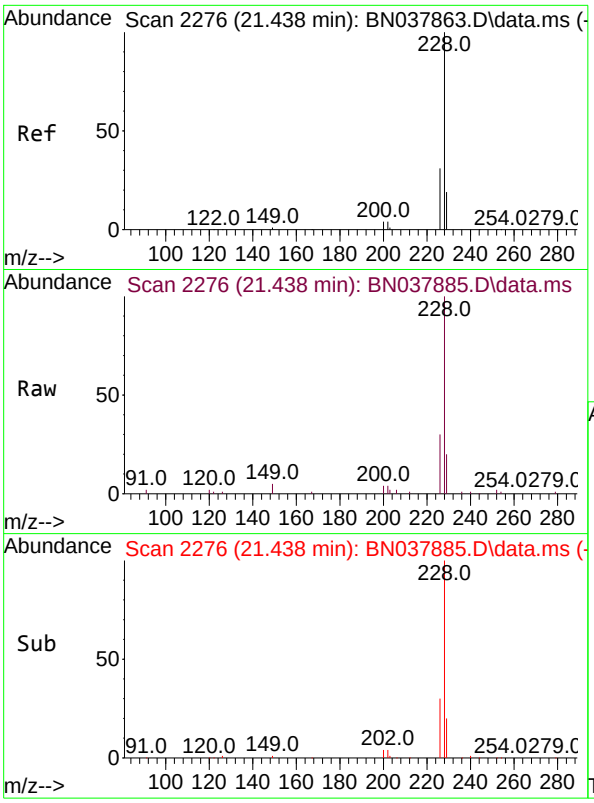


#32
Benzo(a)anthracene
Concen: 0.377 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:228 Resp: 20382

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.6	33.8
229	19.7	15.6	23.4



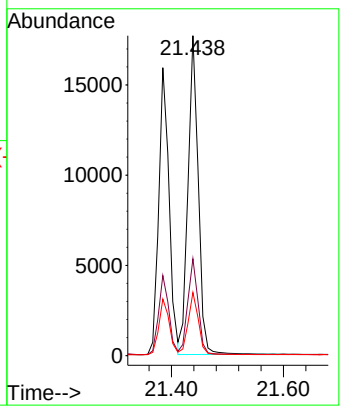


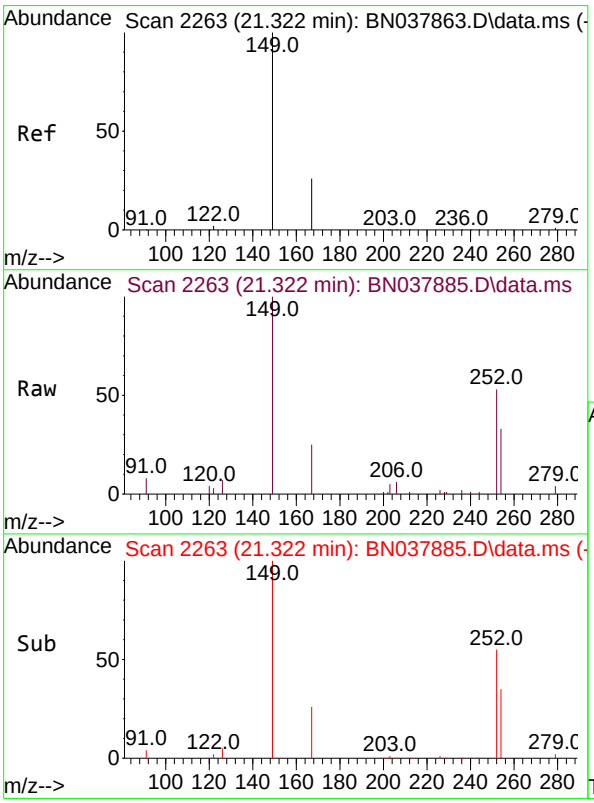
#33
Chrysene
Concen: 0.386 ng
RT: 21.438 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:228 Resp: 22553

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.6	37.0
229	19.7	15.6	23.4

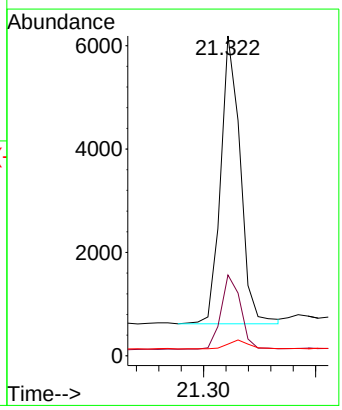


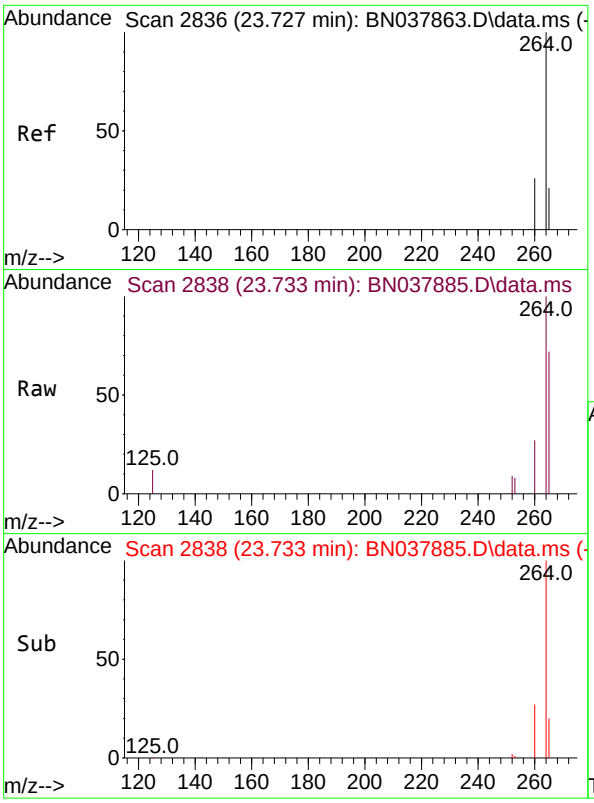


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.316 ng
RT: 21.322 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:149 Resp: 6759

Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.4	30.6
279	3.1	2.4	3.6



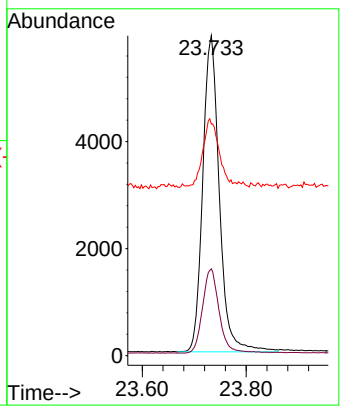


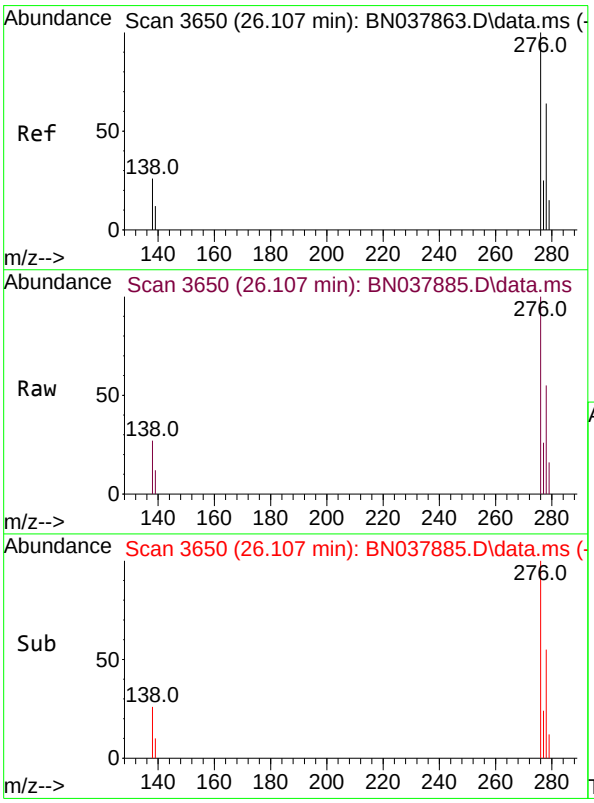
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.733 min Scan# 28
Delta R.T. 0.006 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:264 Resp: 13073

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.5	32.3
265	72.4	53.8	80.6

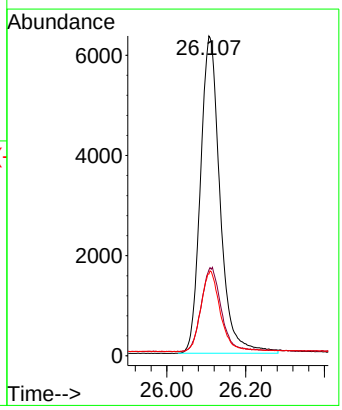


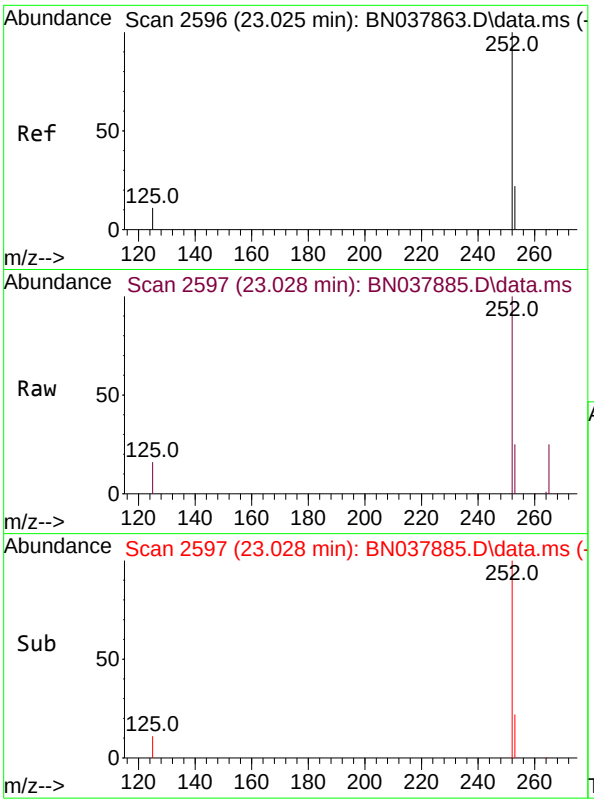


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 26.107 min Scan# 3650
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:276 Resp: 21870

Ion	Ratio	Lower	Upper
276	100		
138	27.1	21.4	32.0
277	24.9	20.3	30.5



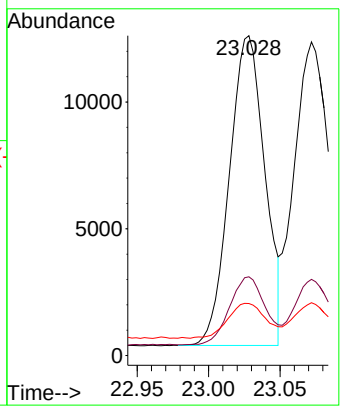


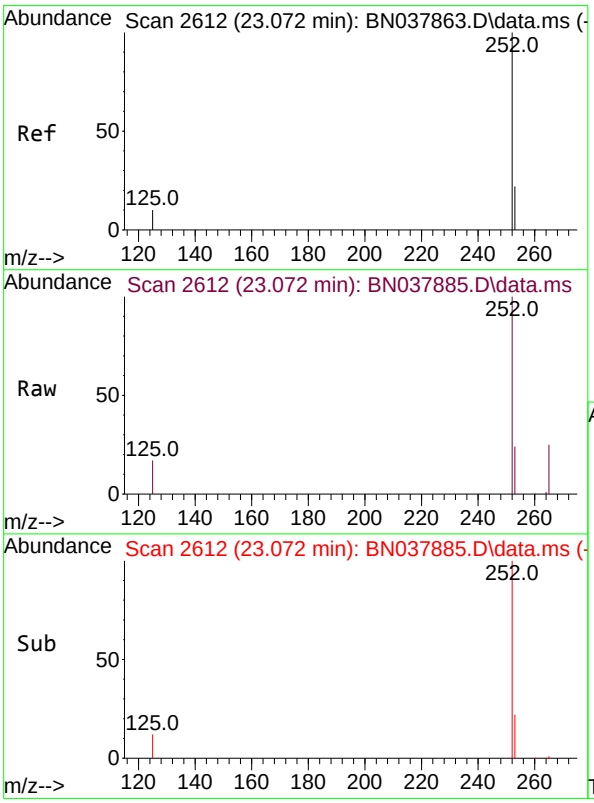
#37
Benzo(b)fluoranthene
Concen: 0.374 ng
RT: 23.028 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:252 Resp: 21060

Ion	Ratio	Lower	Upper
252	100		
253	24.6	19.4	29.0
125	16.3	13.0	19.4

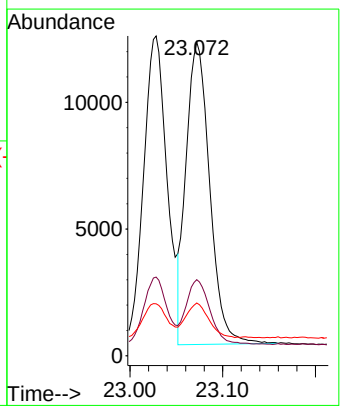


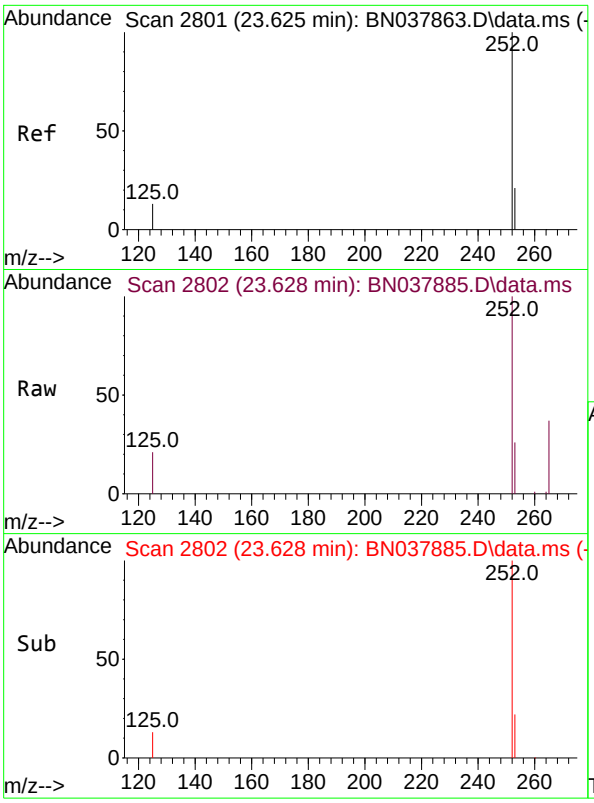


#38
Benzo(k)fluoranthene
Concen: 0.373 ng
RT: 23.072 min Scan# 2612
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:252 Resp: 21159

Ion	Ratio	Lower	Upper
252	100		
253	24.3	19.5	29.3
125	16.8	13.0	19.4



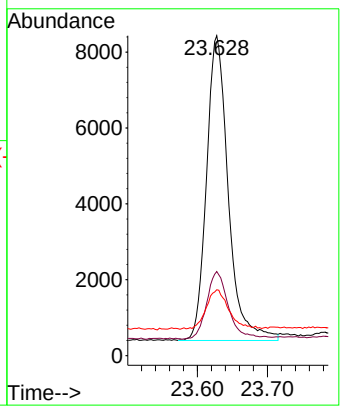


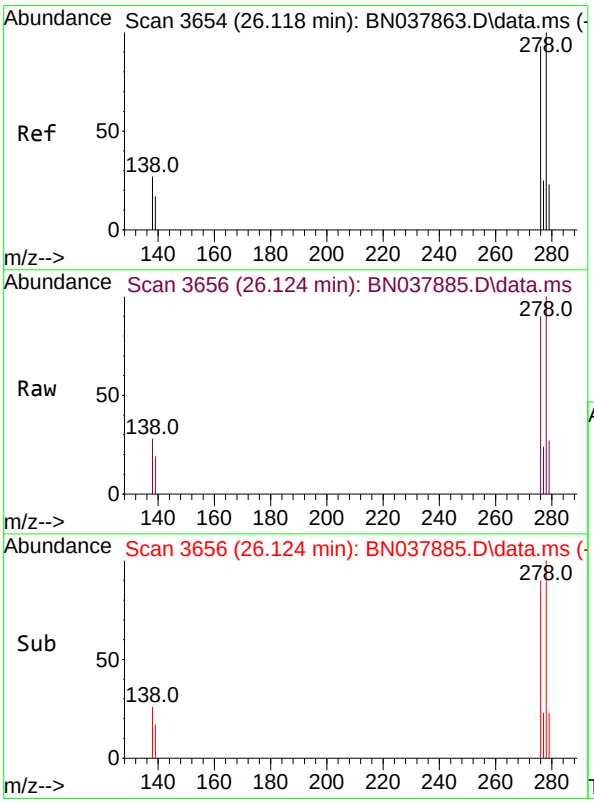
#39
Benzo(a)pyrene
Concen: 0.389 ng
RT: 23.628 min Scan# 28
Delta R.T. 0.003 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:252 Resp: 17352

Ion	Ratio	Lower	Upper
252	100		
253	26.3	20.6	30.8
125	20.6	16.7	25.1

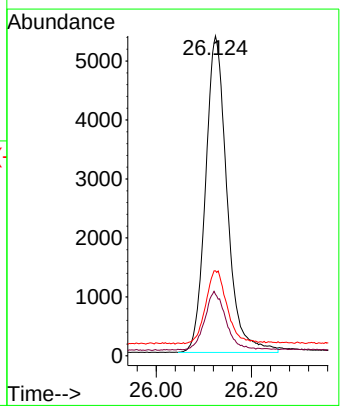


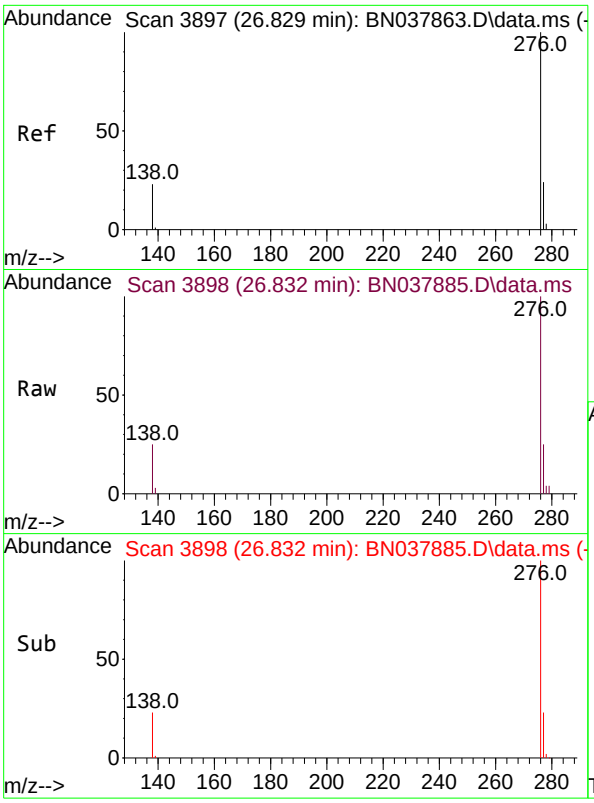


#40
Dibenzo(a,h)anthracene
Concen: 0.361 ng
RT: 26.124 min Scan# 3656
Delta R.T. 0.006 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:278 Resp: 16856

Ion	Ratio	Lower	Upper
278	100		
139	19.2	15.4	23.2
279	26.6	20.8	31.2



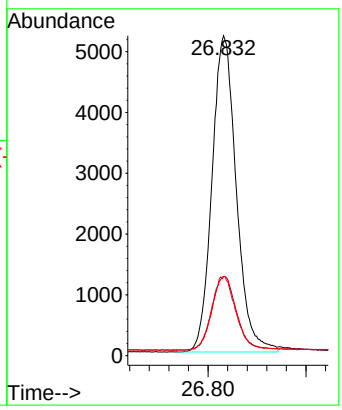


#41
Benzo(g,h,i)perylene
Concen: 0.366 ng
RT: 26.832 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Tgt Ion:276 Resp: 17953

Ion	Ratio	Lower	Upper
276	100		
277	24.8	20.2	30.4
138	24.7	19.8	29.8



Raw Data: **BN037888.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB169712BSD	SDG No.:	Q3097
Lab Sample ID:	PB169712BSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037888.D	1	09/16/25 09:39	09/25/25 14:34	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.33		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		108%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6840	7.826				
1146-65-2	Naphthalene-d8	18500	10.626				
15067-26-2	Acenaphthene-d10	8850	14.473				
1517-22-2	Phenanthrene-d10	17000	17.223				
1719-03-5	Chrysene-d12	11900	21.402				
1520-96-3	Perylene-d12	9040	23.736				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037888.D
Acq On : 25 Sep 2025 14:34
Operator : RC/JU
Sample : PB169712BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Quant Time: Sep 25 15:00:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

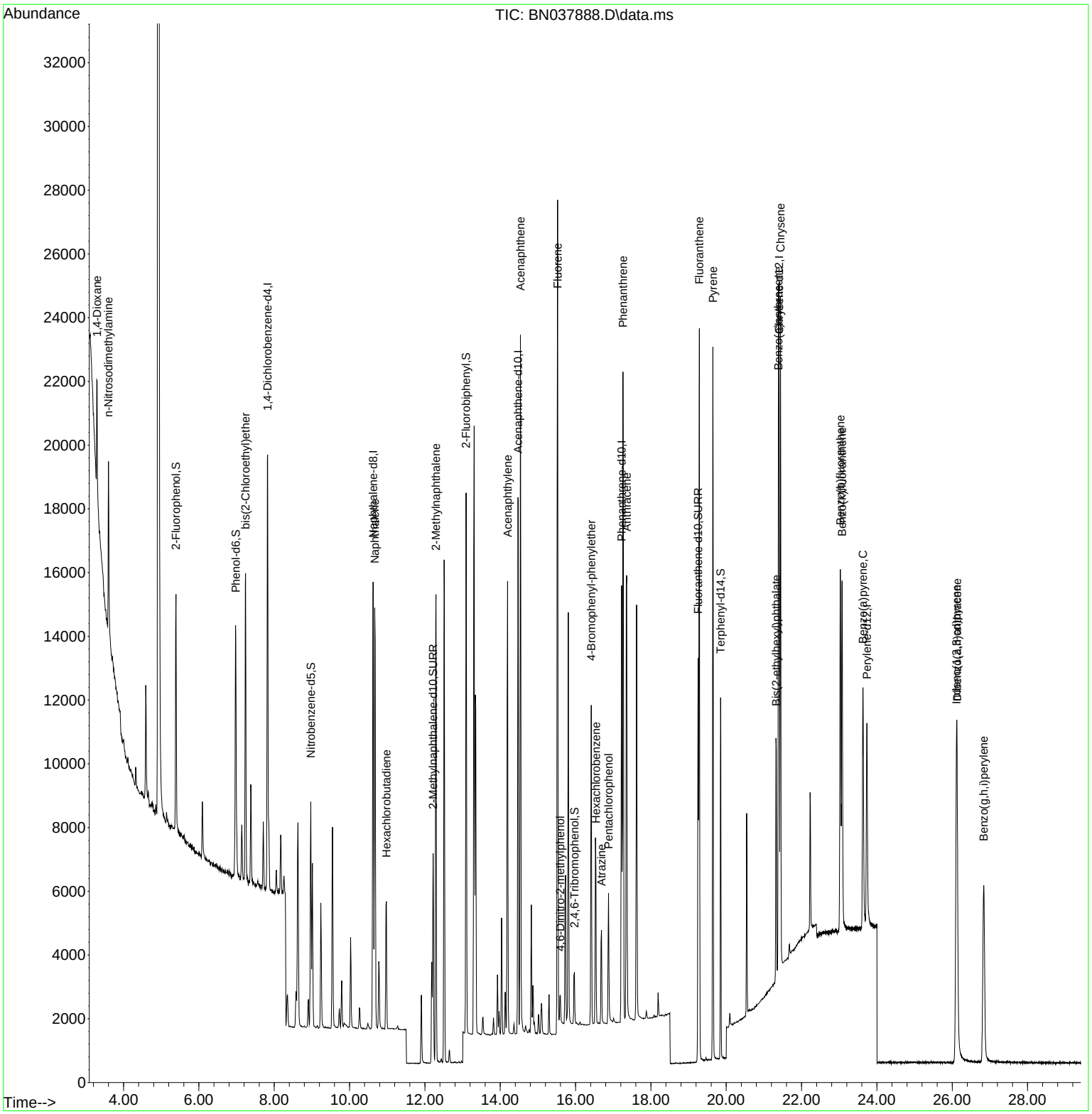
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	6836	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	18512	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8848	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16966	0.400	ng	0.00
29) Chrysene-d12	21.402	240	11857	0.400	ng	# 0.00
35) Perylene-d12	23.736	264	9036	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5760	0.369	ng	0.00
5) Phenol-d6	6.981	99	7323	0.357	ng	0.00
8) Nitrobenzene-d5	8.971	82	5500	0.390	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	8949	0.348	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1023	0.305	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	14311	0.395	ng	0.00
27) Fluoranthene-d10	19.253	212	13821	0.324	ng	0.00
31) Terphenyl-d14	19.852	244	10203	0.432	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	2281	0.329	ng	# 34
3) n-Nitrosodimethylamine	3.601	42	3666	0.397	ng	# 83
6) bis(2-Chloroethyl)ether	7.241	93	6927	0.364	ng	98
9) Naphthalene	10.669	128	18228	0.357	ng	99
10) Hexachlorobutadiene	10.979	225	3382	0.389	ng	# 100
12) 2-Methylnaphthalene	12.294	142	10261	0.308	ng	98
16) Acenaphthylene	14.195	152	15564	0.387	ng	99
17) Acenaphthene	14.537	154	10066	0.352	ng	99
18) Fluorene	15.523	166	12500	0.361	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	708	0.392	ng	92
21) 4-Bromophenyl-phenylether	16.416	248	3842	0.348	ng	98
22) Hexachlorobenzene	16.540	284	4957	0.370	ng	99
23) Atrazine	16.689	200	2601	0.309	ng	99
24) Pentachlorophenol	16.876	266	2099	0.456	ng	95
25) Phenanthrene	17.260	178	20245	0.363	ng	100
26) Anthracene	17.360	178	17667	0.365	ng	100
28) Fluoranthene	19.285	202	19835	0.323	ng	99
30) Pyrene	19.648	202	19419	0.415	ng	100
32) Benzo(a)anthracene	21.384	228	15371	0.371	ng	99
33) Chrysene	21.438	228	17365	0.388	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	4456	0.272	ng	# 100
36) Indeno(1,2,3-cd)pyrene	26.110	276	14519	0.352	ng	99
37) Benzo(b)fluoranthene	23.028	252	15158	0.389	ng	96
38) Benzo(k)fluoranthene	23.078	252	14723	0.376	ng	96
39) Benzo(a)pyrene	23.630	252	12124	0.393	ng	96
40) Dibenzo(a,h)anthracene	26.127	278	11453	0.355	ng	95
41) Benzo(g,h,i)perylene	26.838	276	12421	0.367	ng	99

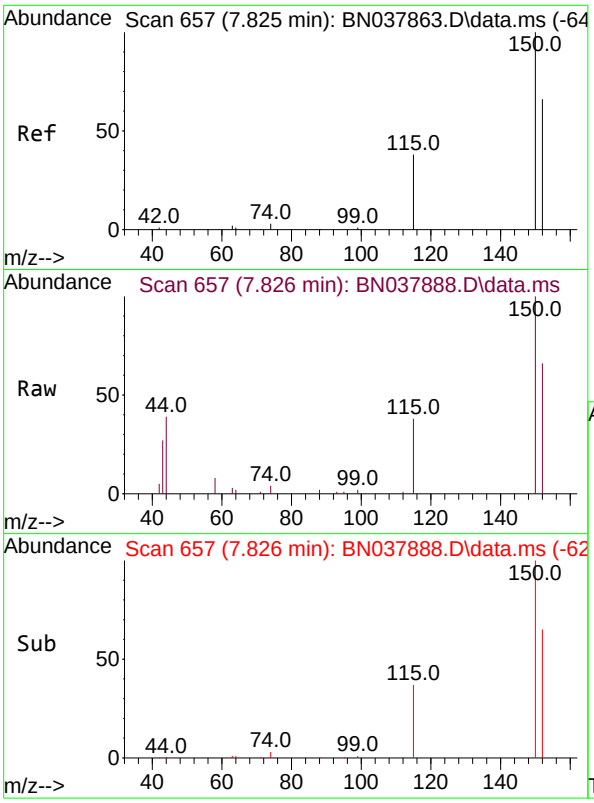
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037888.D
Acq On : 25 Sep 2025 14:34
Operator : RC/JU
Sample : PB169712BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Quant Time: Sep 25 15:00:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



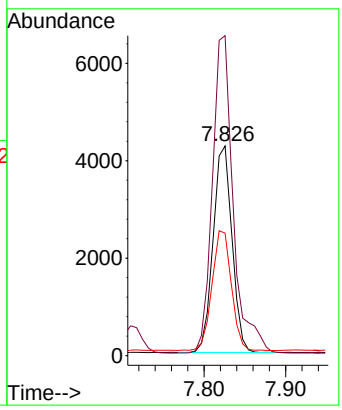


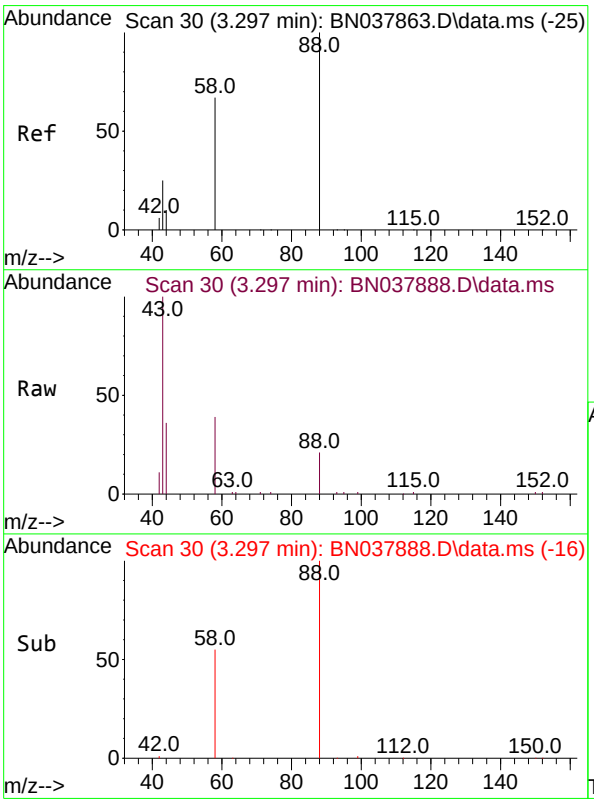
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 6
Delta R.T. 0.001 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:152 Resp: 6836

Ion	Ratio	Lower	Upper
152	100		
150	152.6	121.0	181.4
115	58.4	47.4	71.0

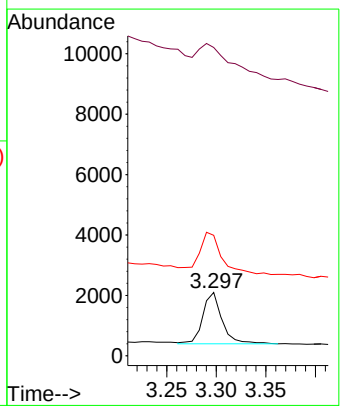


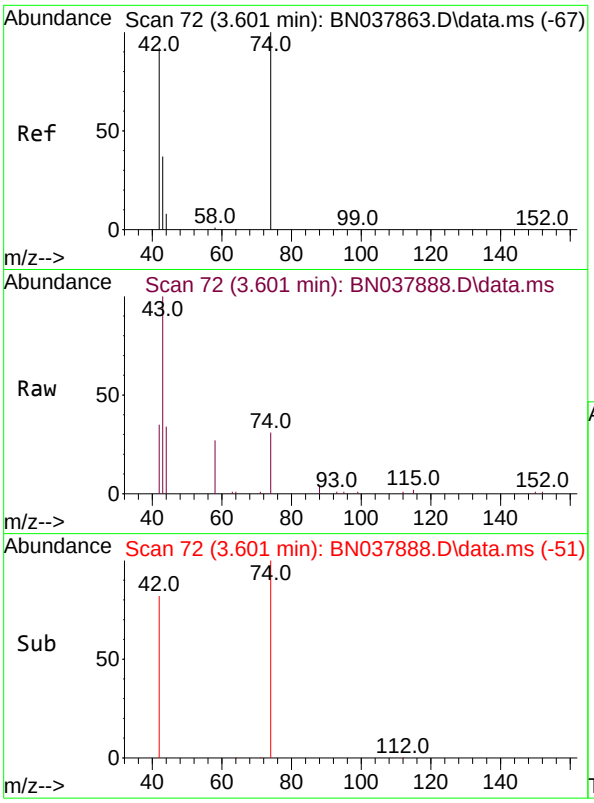


#2
1,4-Dioxane
Concen: 0.329 ng
RT: 3.297 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion: 88 Resp: 2281

Ion	Ratio	Lower	Upper
88	100		
43	116.9	26.6	39.8#
58	98.1	58.9	88.3#



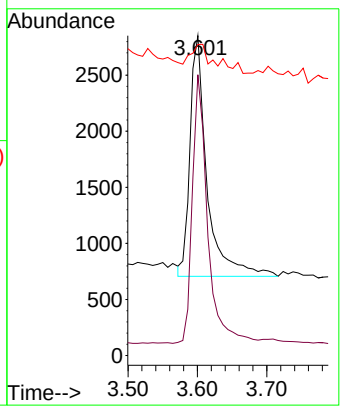


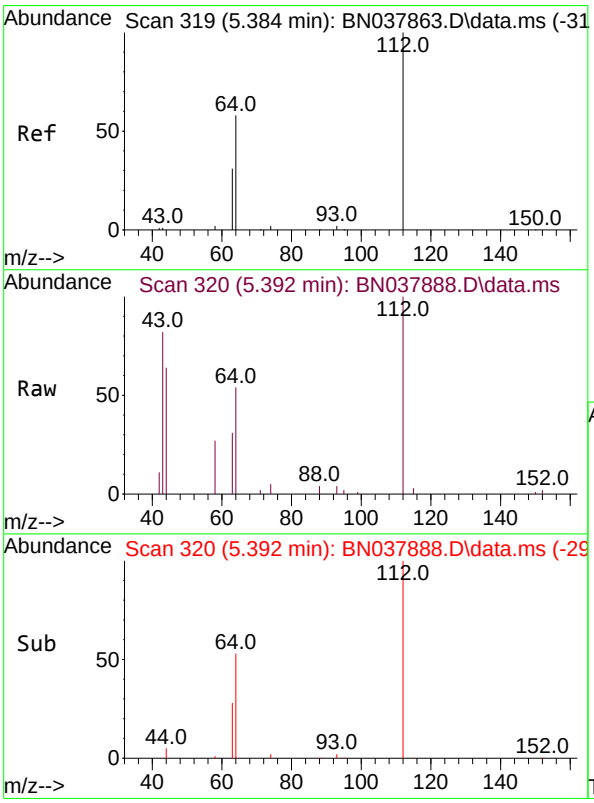
#3
n-Nitrosodimethylamine
Concen: 0.397 ng
RT: 3.601 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion: 42 Resp: 3666

Ion	Ratio	Lower	Upper
42	100		
74	99.6	93.4	140.0
44	16.8	22.2	33.4#

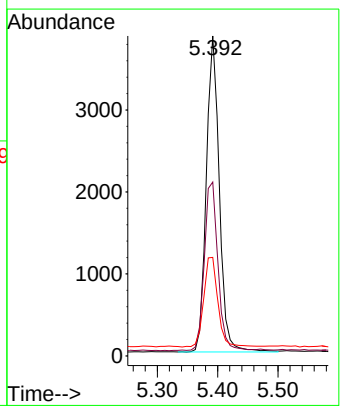


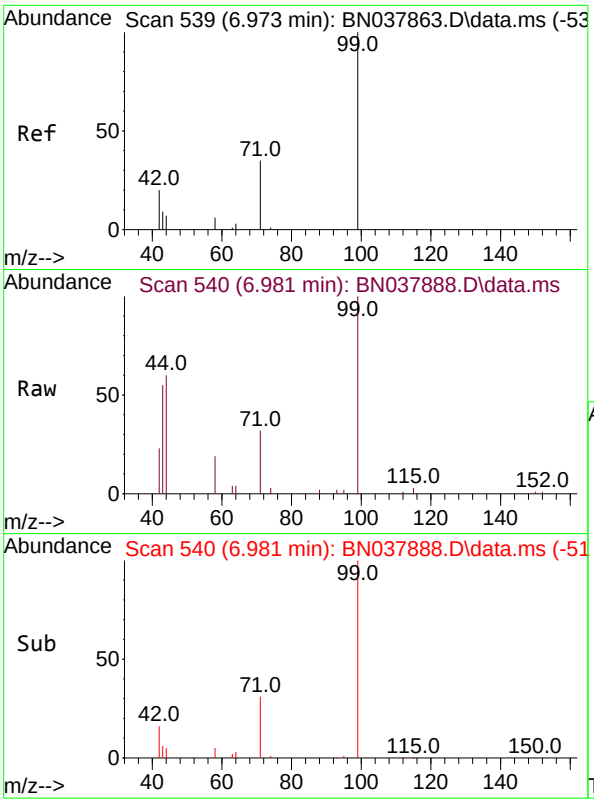


#4
2-Fluorophenol
Concen: 0.369 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:112 Resp: 5760

Ion	Ratio	Lower	Upper
112	100		
64	56.3	44.6	66.8
63	31.1	24.9	37.3



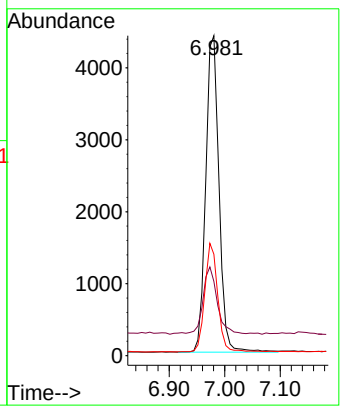


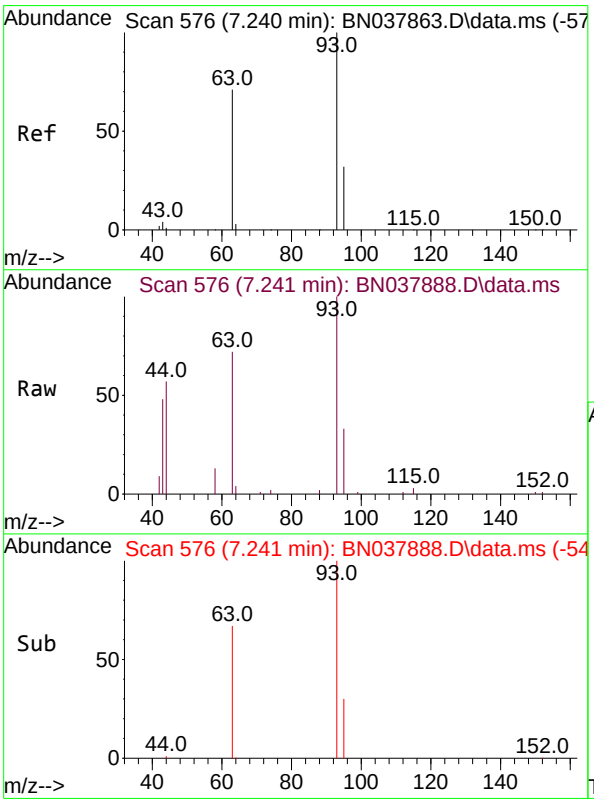
#5
Phenol-d6
Concen: 0.357 ng
RT: 6.981 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion: 99 Resp: 7323

Ion	Ratio	Lower	Upper
99	100		
42	23.0	17.2	25.8
71	33.6	27.3	40.9

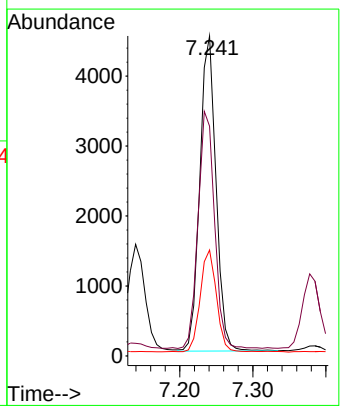


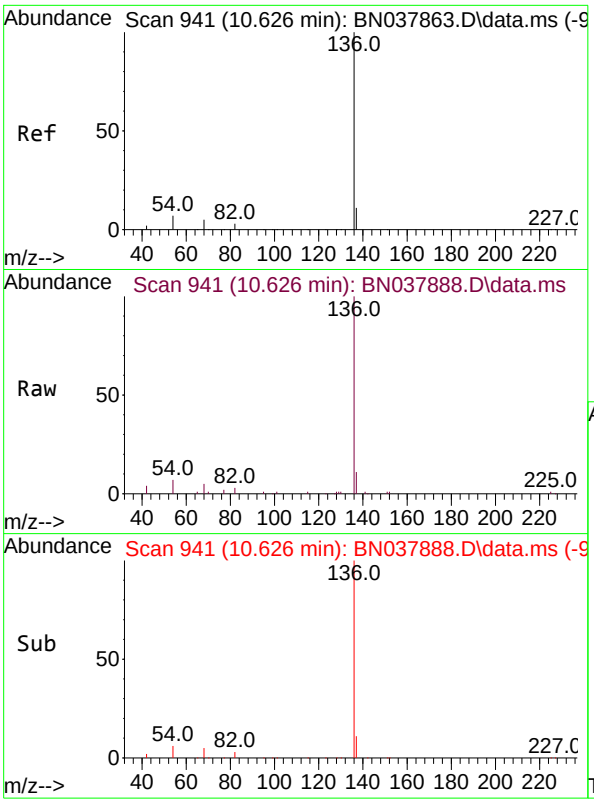


#6
bis(2-Chloroethyl)ether
Concen: 0.364 ng
RT: 7.241 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion: 93 Resp: 6927

Ion	Ratio	Lower	Upper
93	100		
63	76.6	60.1	90.1
95	32.4	25.4	38.2



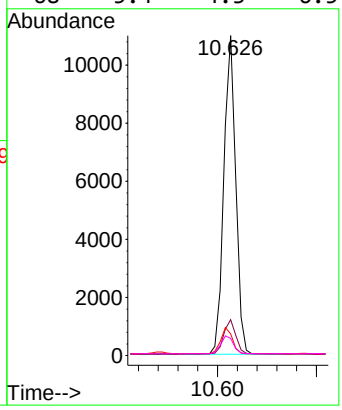


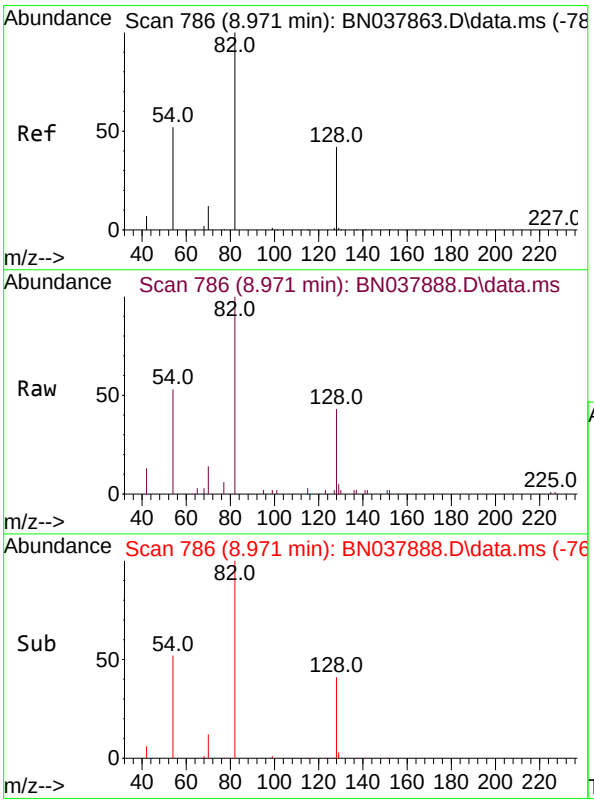
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:136 Resp: 18512

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	6.8	5.8	8.8
68	5.4	4.3	6.5

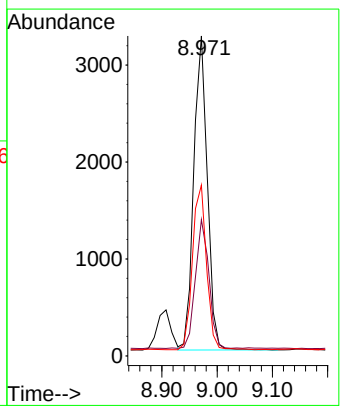


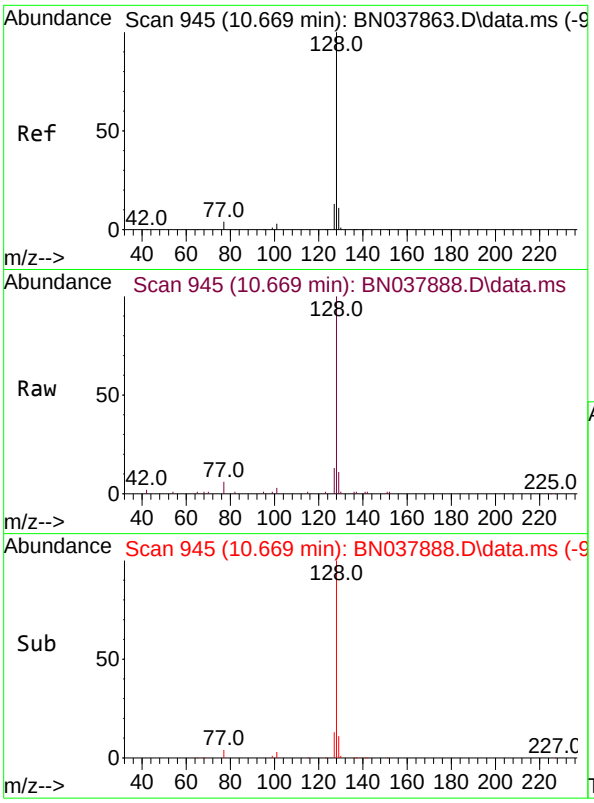


#8
Nitrobenzene-d5
Concen: 0.390 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion: 82 Resp: 5500

Ion	Ratio	Lower	Upper
82	100		
128	42.6	34.8	52.2
54	53.4	42.2	63.2



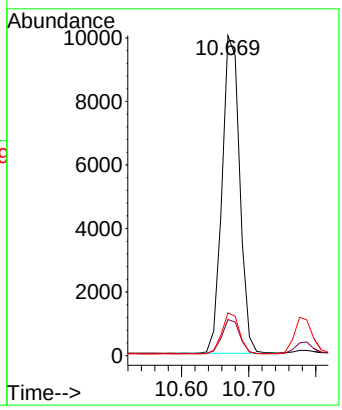


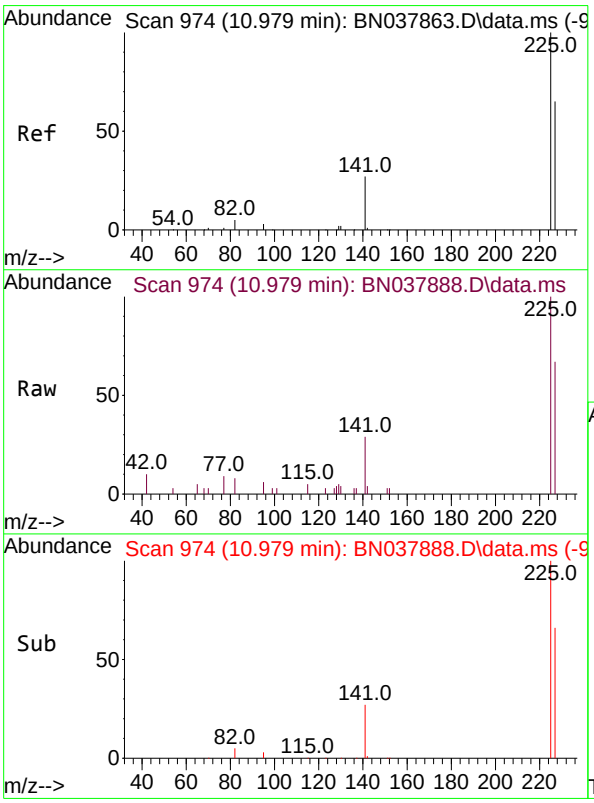
#9
Naphthalene
Concen: 0.357 ng
RT: 10.669 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:128 Resp: 18228

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.2	13.8
127	13.3	11.0	16.6

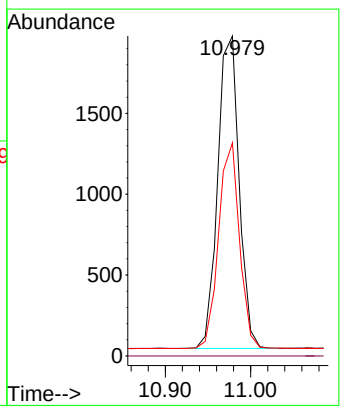


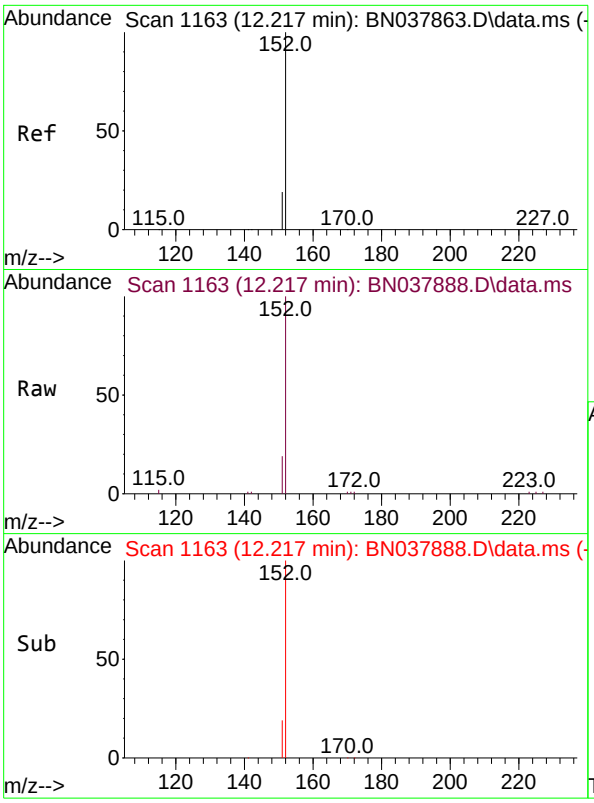


#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:225 Resp: 3382

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.4	77.2



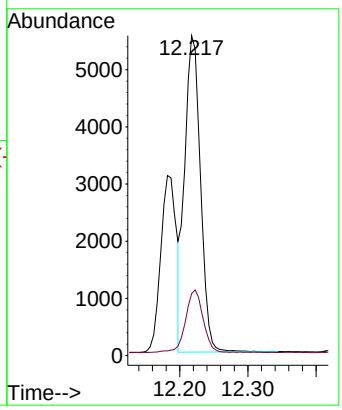


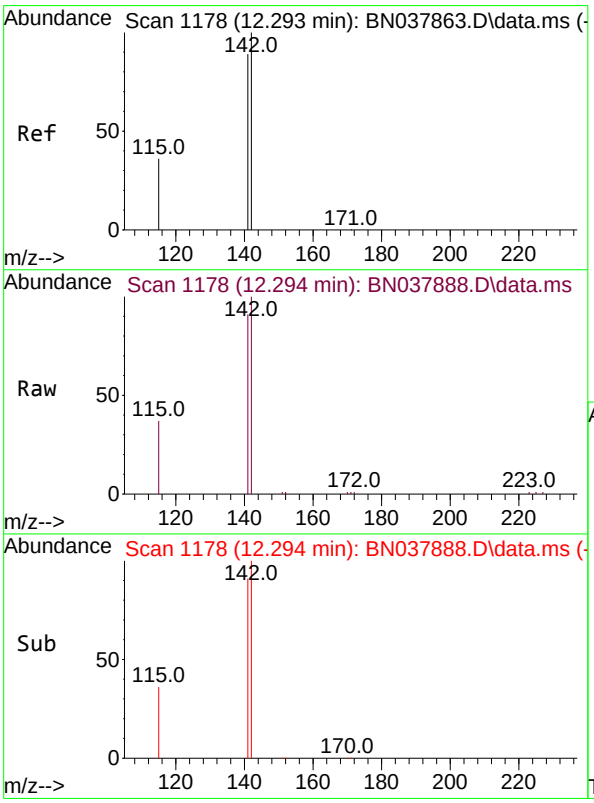
#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 12.217 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:152 Resp: 8949

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.4	26.2

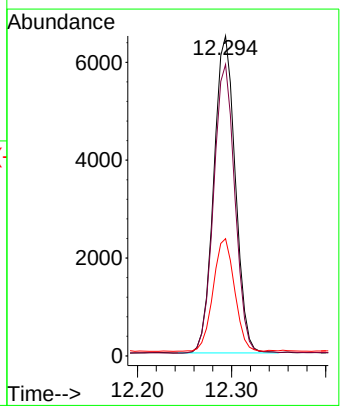


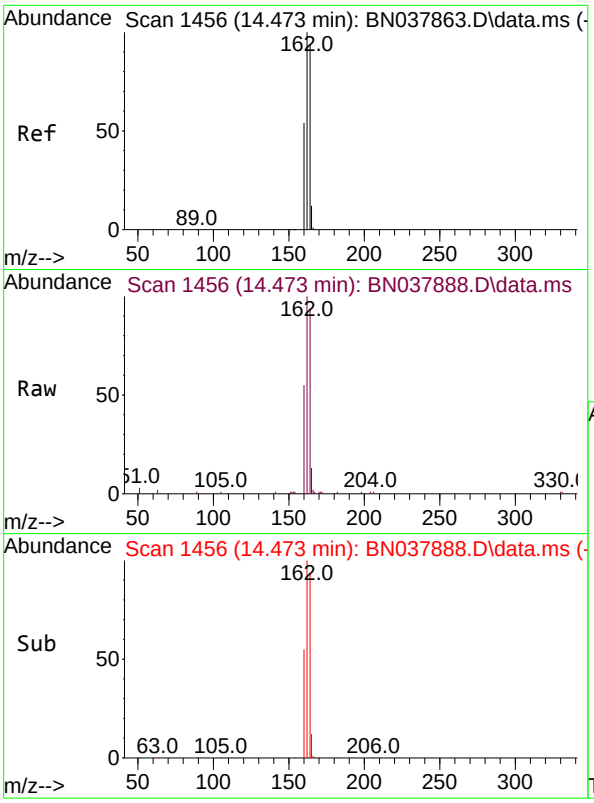


#12
2-Methylnaphthalene
Concen: 0.308 ng
RT: 12.294 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:142 Resp: 10261

Ion	Ratio	Lower	Upper
142	100		
141	91.1	71.2	106.8
115	36.7	29.7	44.5



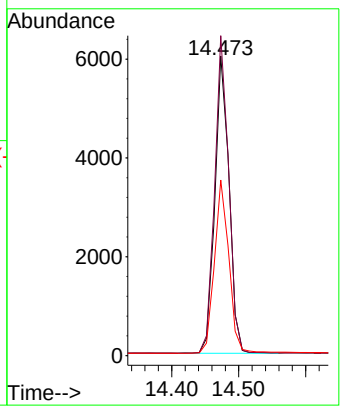


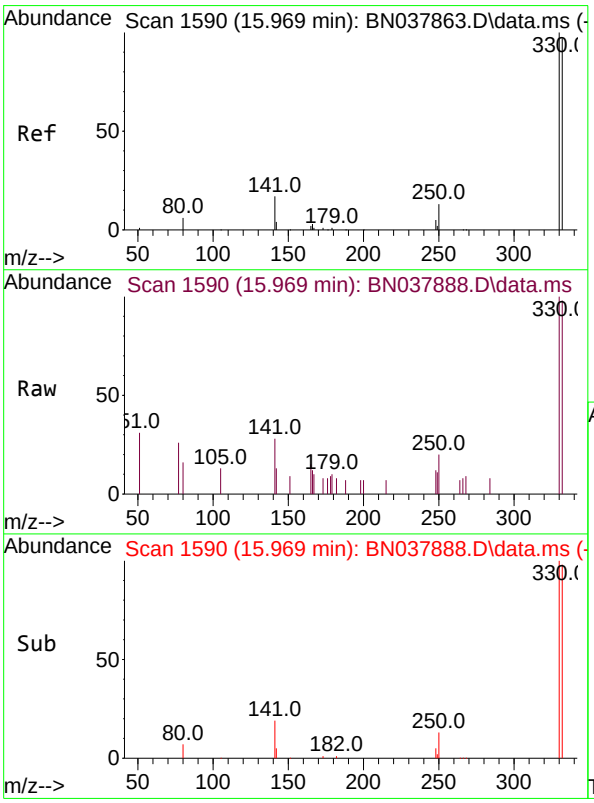
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:164 Resp: 8848

Ion	Ratio	Lower	Upper
164	100		
162	106.8	84.8	127.2
160	58.6	46.1	69.1

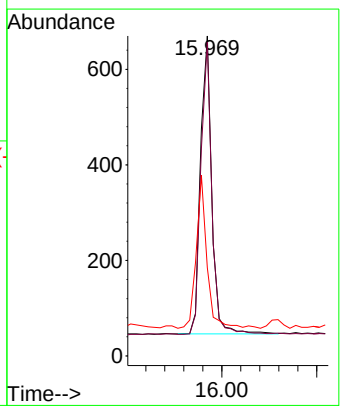


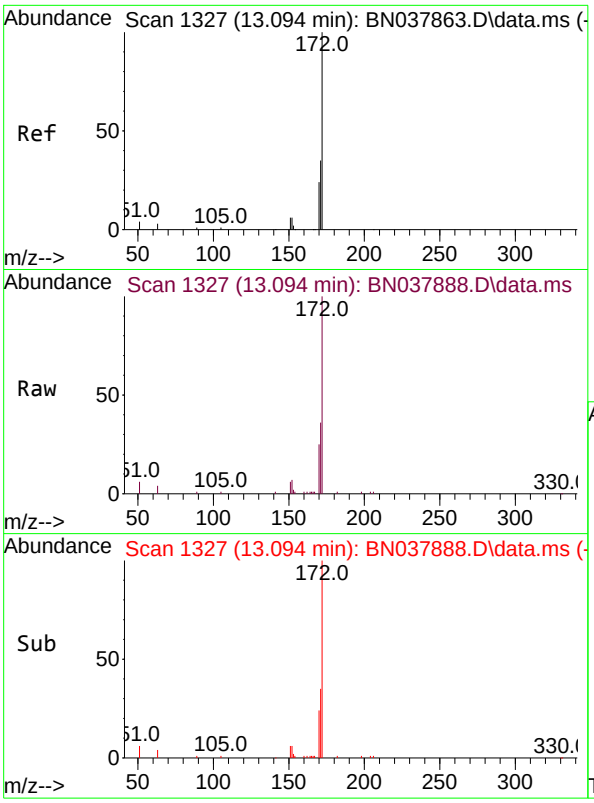


#14
2,4,6-Tribromophenol
Concen: 0.305 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:330 Resp: 1023

Ion	Ratio	Lower	Upper
330	100		
332	95.9	77.2	115.8
141	49.0	37.2	55.8



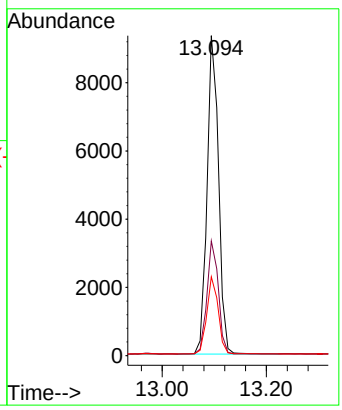


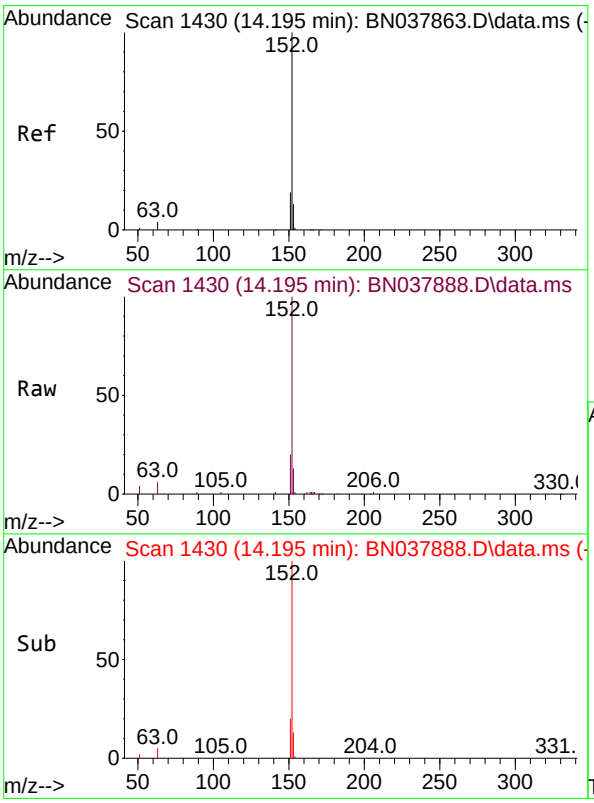
#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 13.094 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:172 Resp: 14311

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.6	19.7	29.5

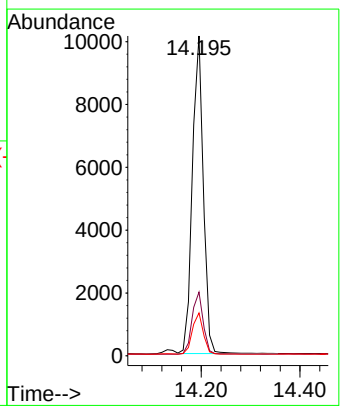


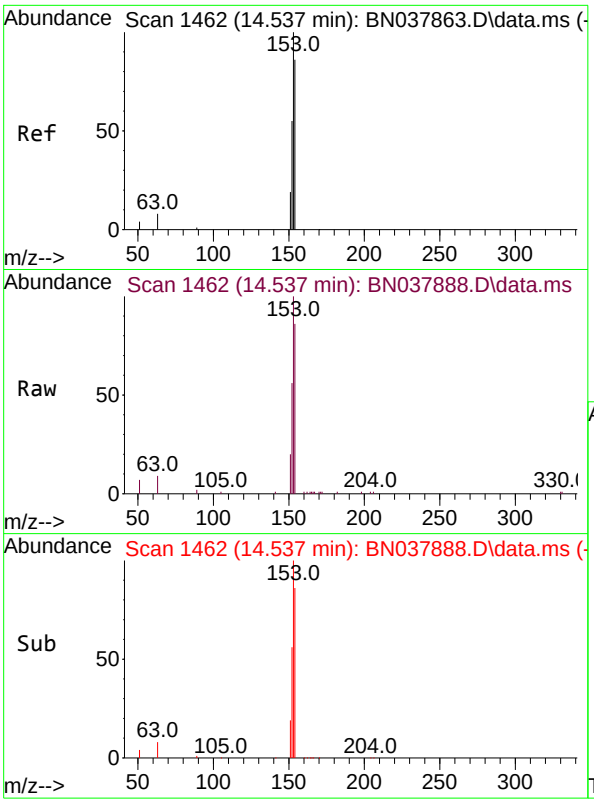


#16
Acenaphthylene
Concen: 0.387 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:152 Resp: 15564

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	12.8	10.5	15.7



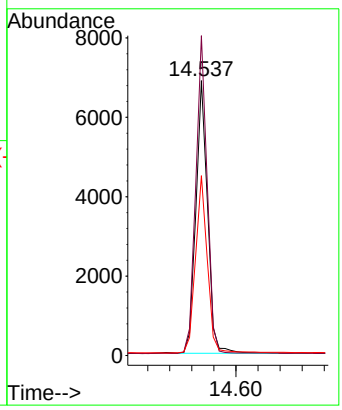


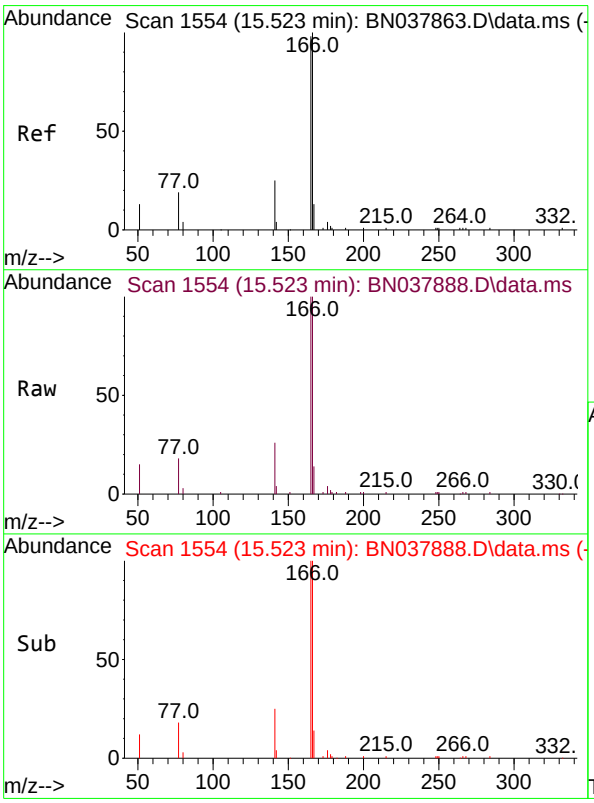
#17
Acenaphthene
Concen: 0.352 ng
RT: 14.537 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:154 Resp: 10066

Ion	Ratio	Lower	Upper
154	100		
153	114.0	90.5	135.7
152	65.9	51.8	77.8

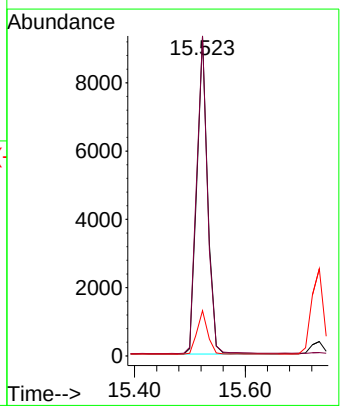


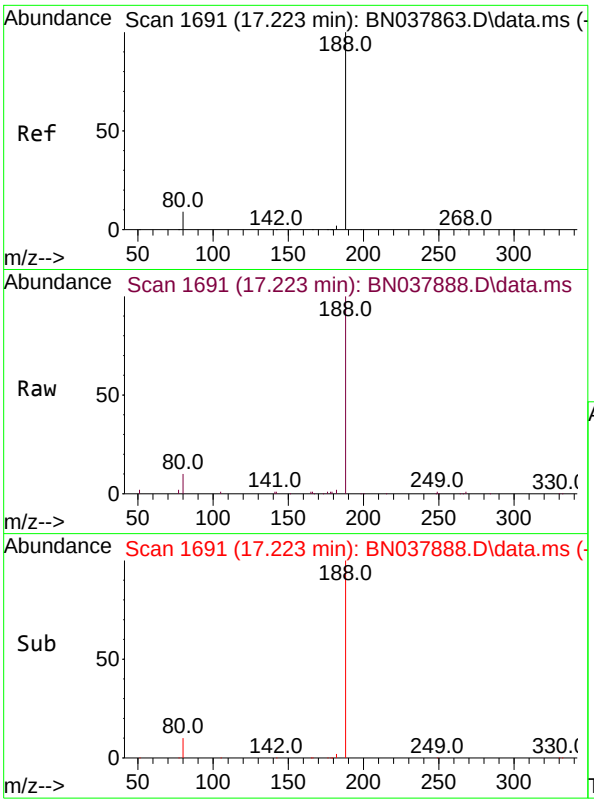


#18
Fluorene
Concen: 0.361 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:166 Resp: 12500

Ion	Ratio	Lower	Upper
166	100		
165	98.1	79.0	118.4
167	13.5	10.6	16.0



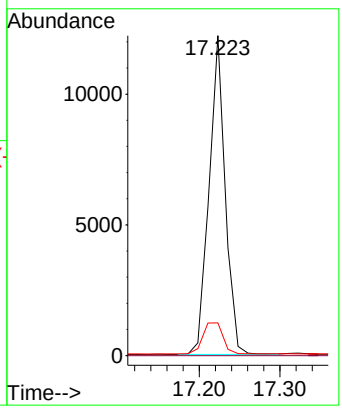


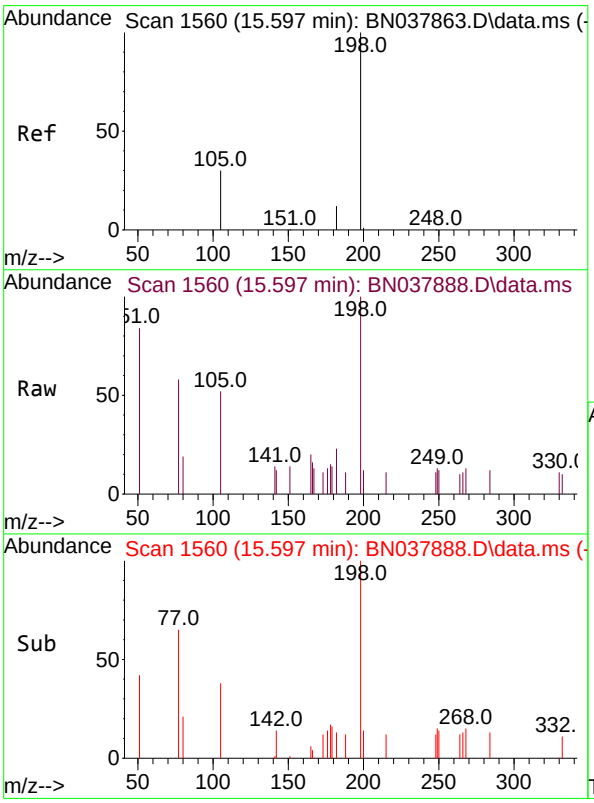
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:188 Resp: 16966

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.2	7.6	11.4

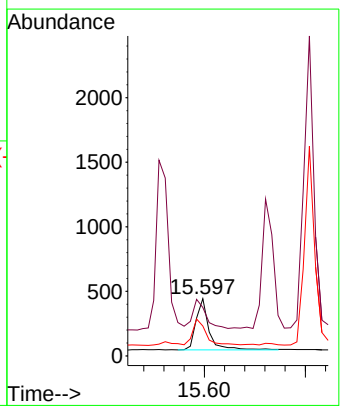


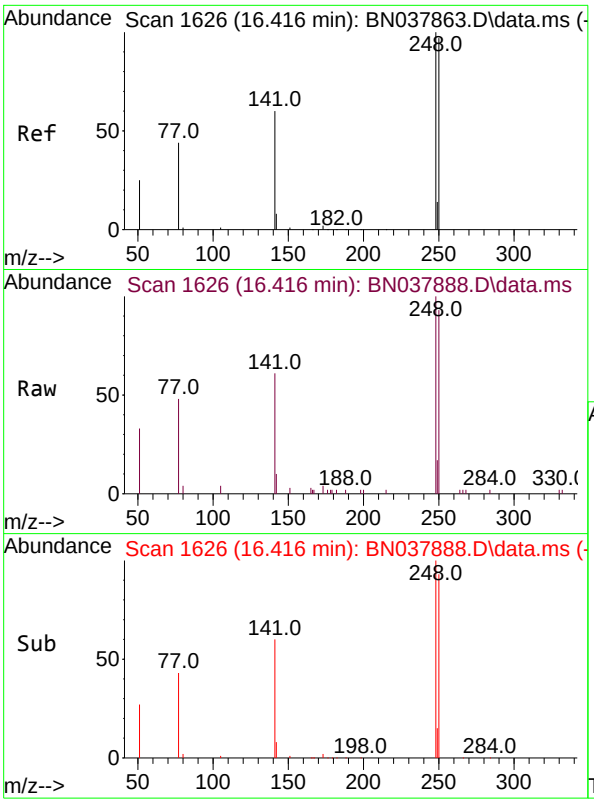


#20
4,6-Dinitro-2-methylphenol
Concen: 0.392 ng
RT: 15.597 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:198 Resp: 708

Ion	Ratio	Lower	Upper
198	100		
51	84.5	59.1	88.7
105	52.3	41.3	61.9



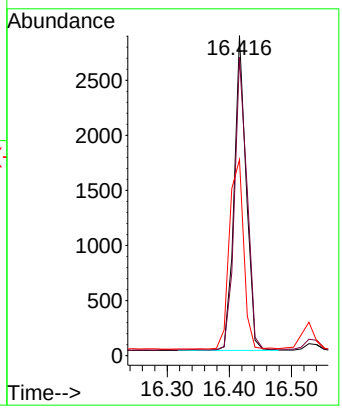


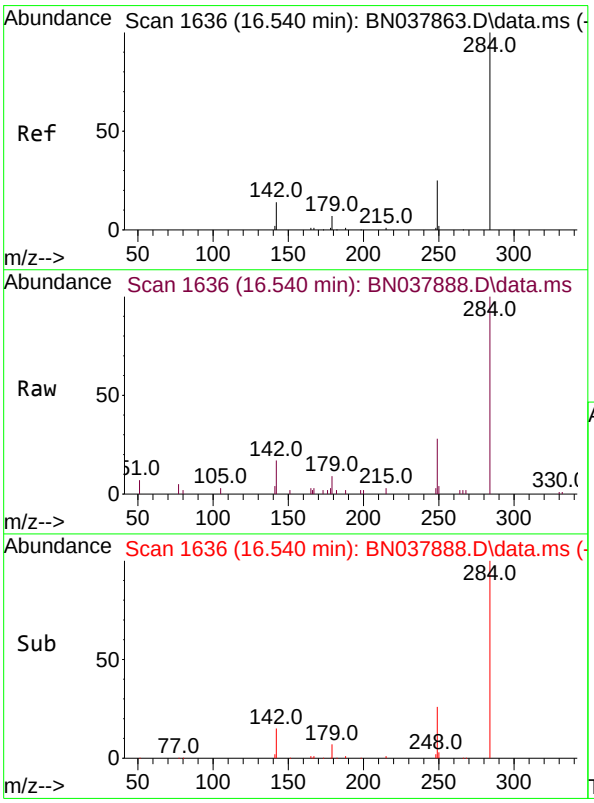
#21
4-Bromophenyl-phenylether
Concen: 0.348 ng
RT: 16.416 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:248 Resp: 3842

Ion	Ratio	Lower	Upper
248	100		
250	93.2	77.6	116.4
141	61.3	48.8	73.2

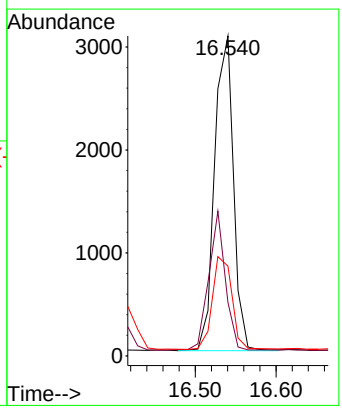


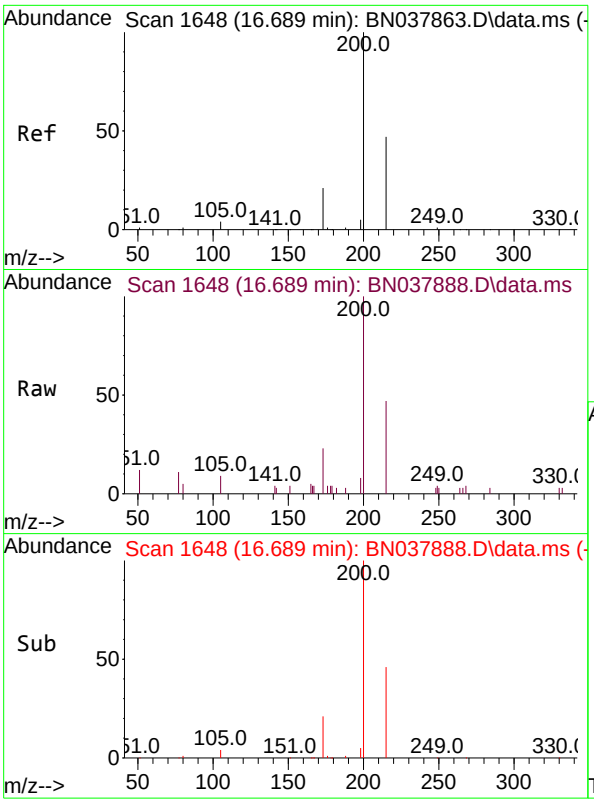


#22
Hexachlorobenzene
Concen: 0.370 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:284 Resp: 4957

Ion	Ratio	Lower	Upper
284	100		
142	38.9	30.9	46.3
249	30.6	23.9	35.9



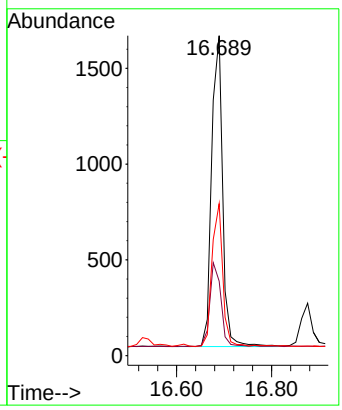


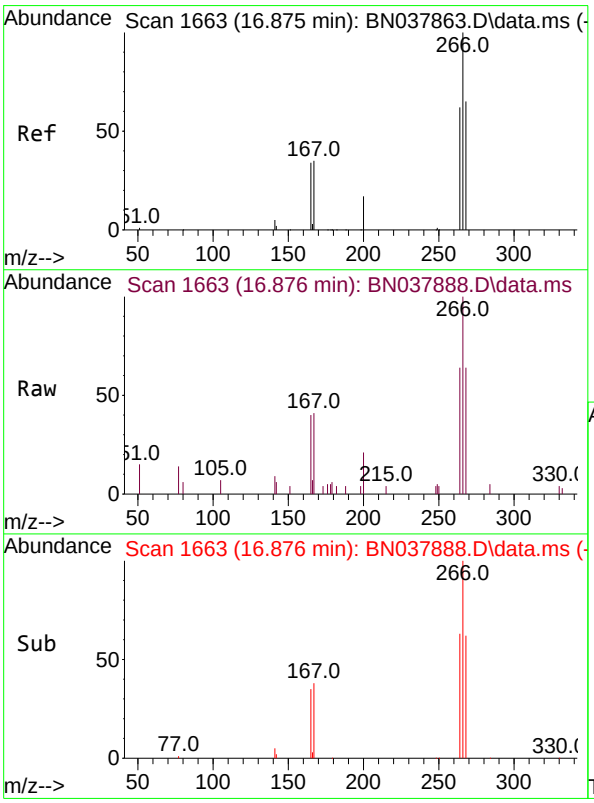
#23
Atrazine
Concen: 0.309 ng
RT: 16.689 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:200 Resp: 2601

Ion	Ratio	Lower	Upper
200	100		
173	23.3	18.3	27.5
215	47.5	38.6	58.0

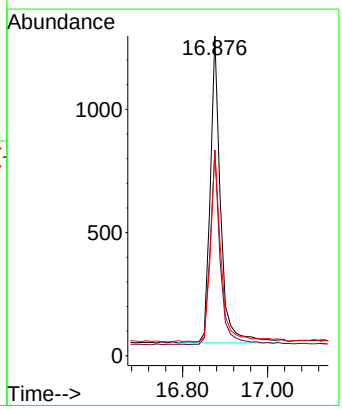


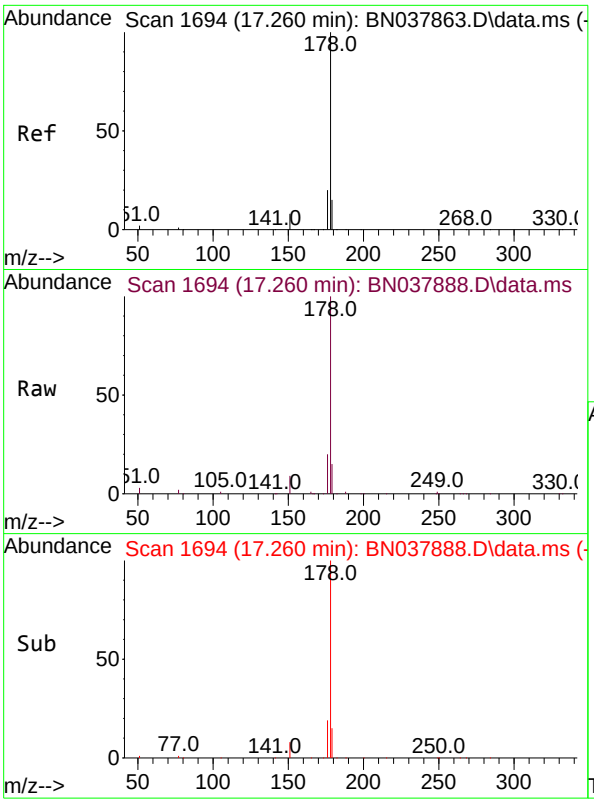


#24
Pentachlorophenol
Concen: 0.456 ng
RT: 16.876 min Scan# 1663
Delta R.T. 0.001 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:266 Resp: 2099

Ion	Ratio	Lower	Upper
266	100		
264	61.6	50.9	76.3
268	62.6	54.3	81.5



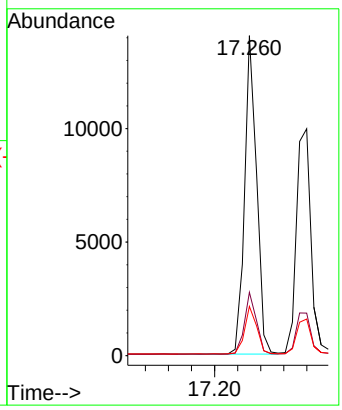


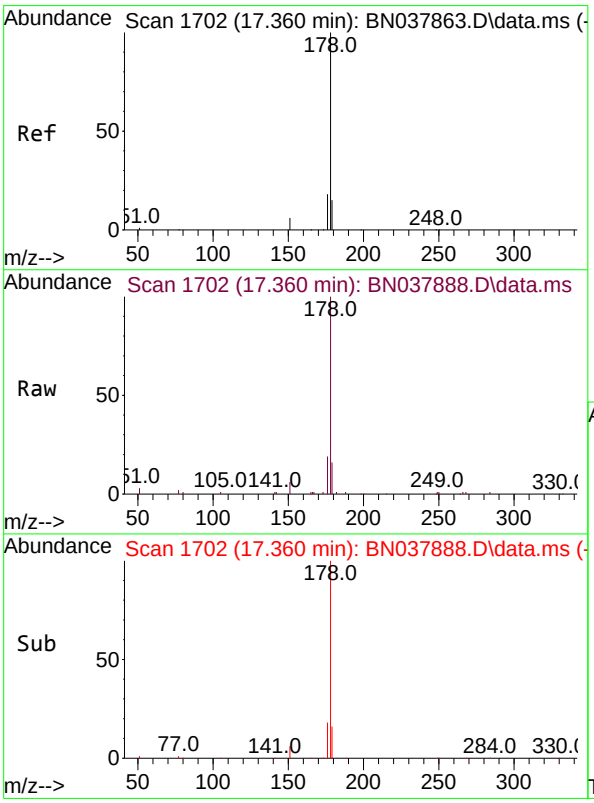
#25
Phenanthrene
Concen: 0.363 ng
RT: 17.260 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:178 Resp: 20245

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.7	23.5
179	15.5	12.3	18.5

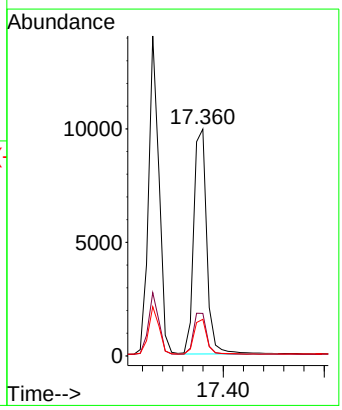


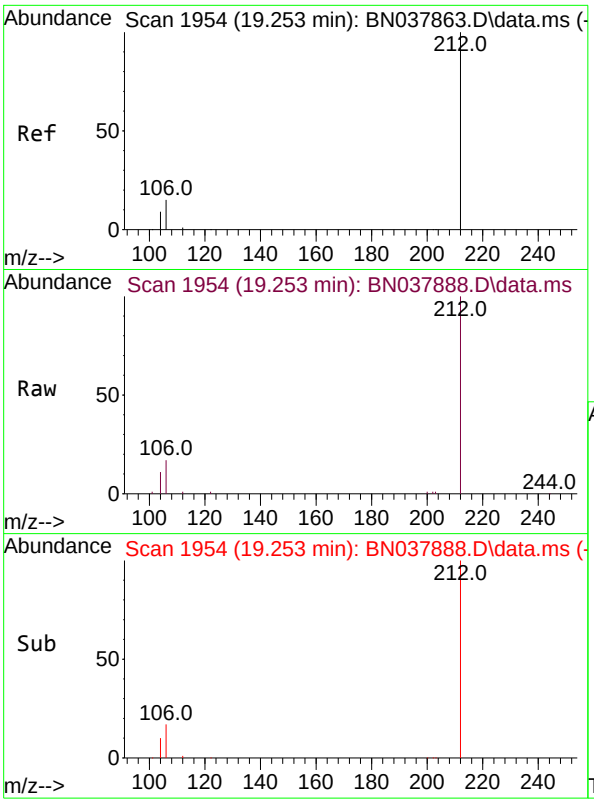


#26
Anthracene
Concen: 0.365 ng
RT: 17.360 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:178 Resp: 17667

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.5	12.3	18.5



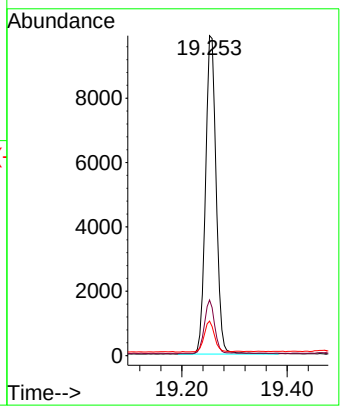


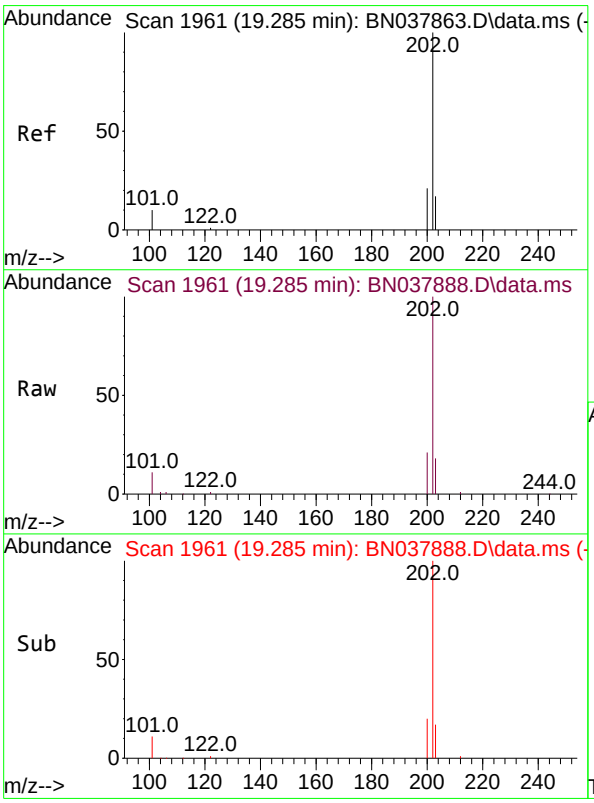
#27
Fluoranthene-d10
Concen: 0.324 ng
RT: 19.253 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:212 Resp: 13821

Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.6	19.0
104	9.4	7.4	11.0

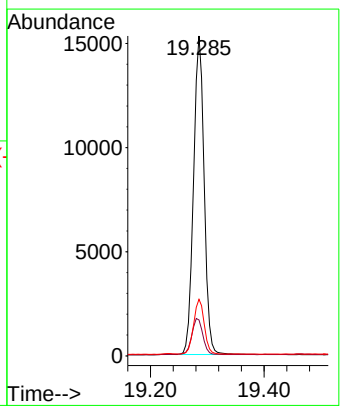


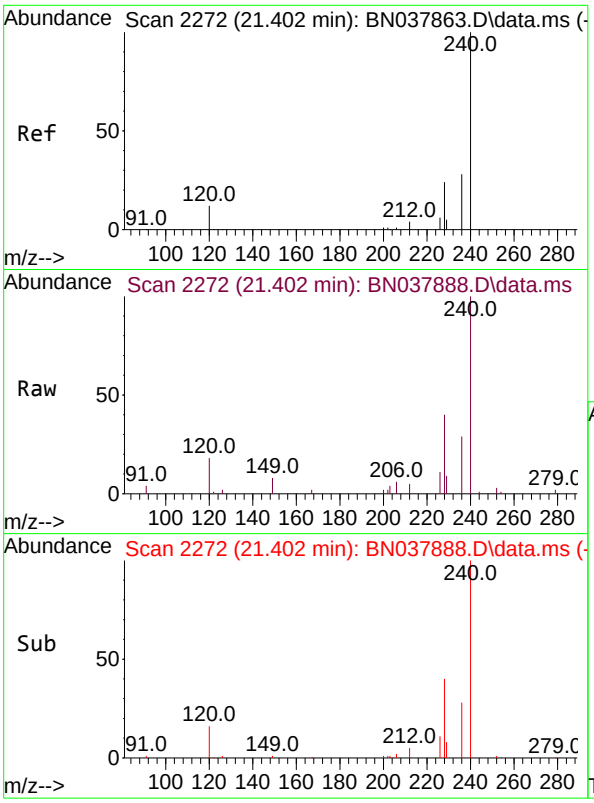


#28
Fluoranthene
Concen: 0.323 ng
RT: 19.285 min Scan# 1961
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:202 Resp: 19835

Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.3	13.9
203	17.0	13.6	20.4



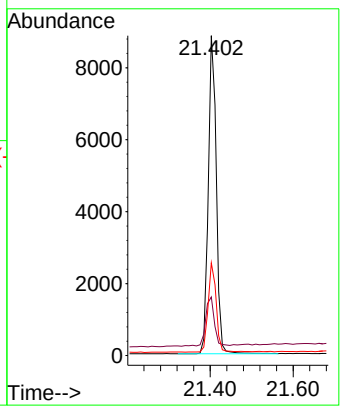


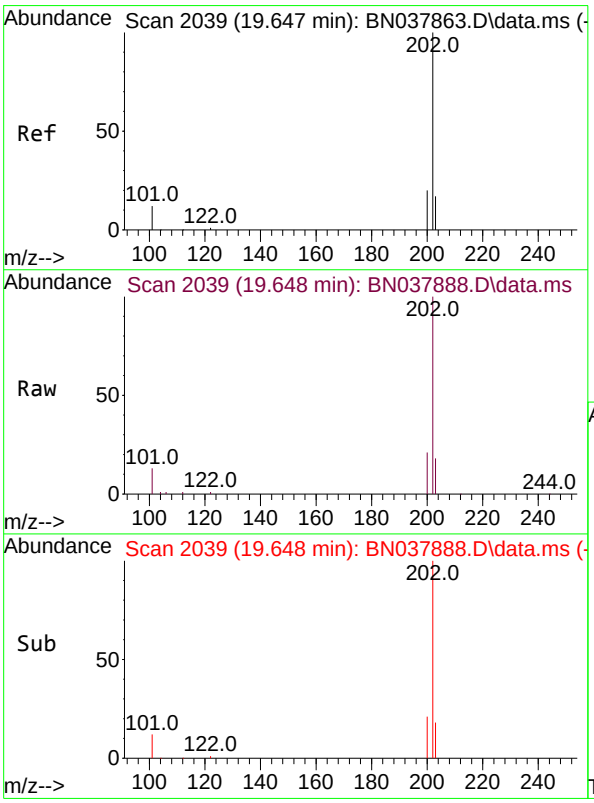
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:240 Resp: 11857

Ion	Ratio	Lower	Upper
240	100		
120	18.3	11.4	17.2#
236	29.0	23.0	34.6

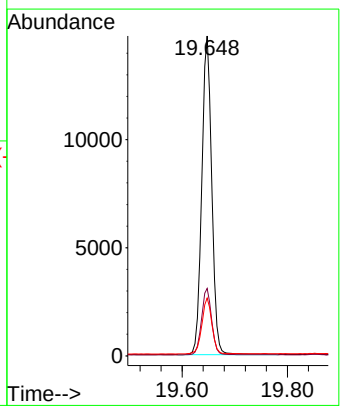


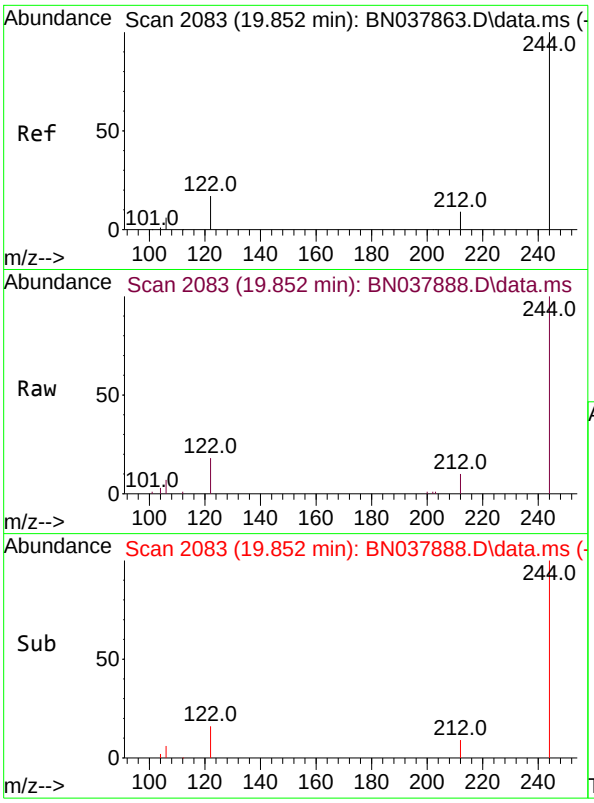


#30
Pyrene
Concen: 0.415 ng
RT: 19.648 min Scan# 2039
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:202 Resp: 19419

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.6	14.2	21.4



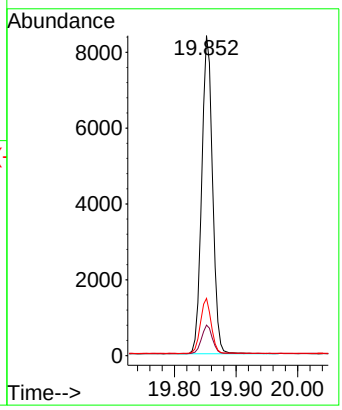


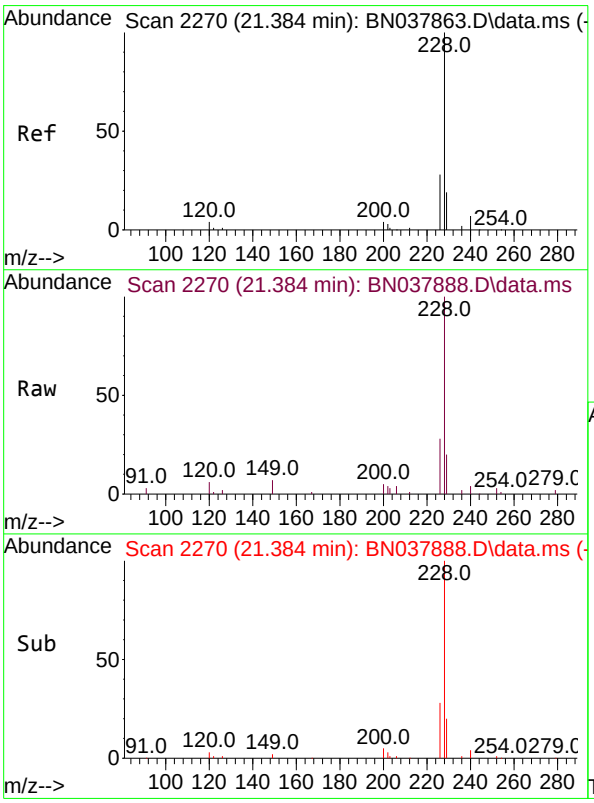
#31
Terphenyl-d14
Concen: 0.432 ng
RT: 19.852 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:244 Resp: 10203

Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.9	13.9	20.9

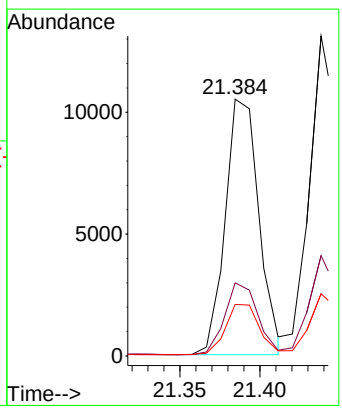


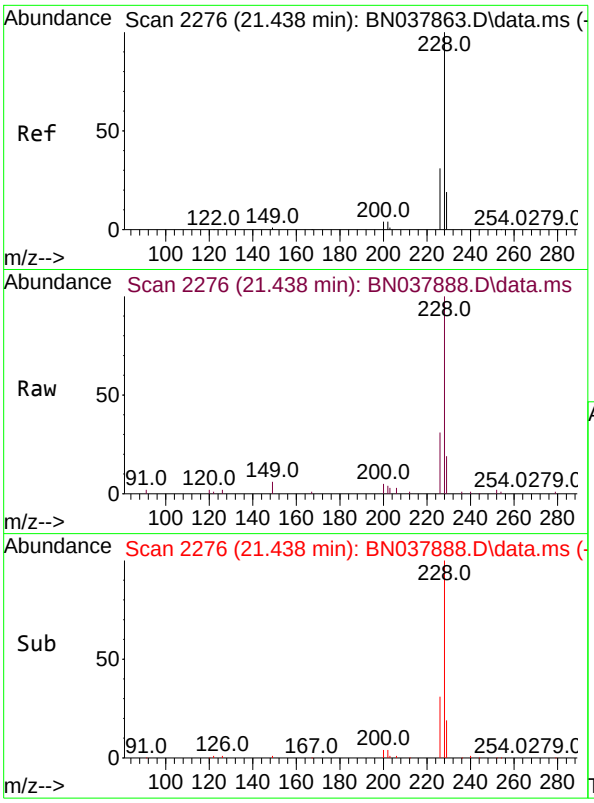


#32
Benzo(a)anthracene
Concen: 0.371 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:228 Resp: 15371

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	20.0	15.6	23.4



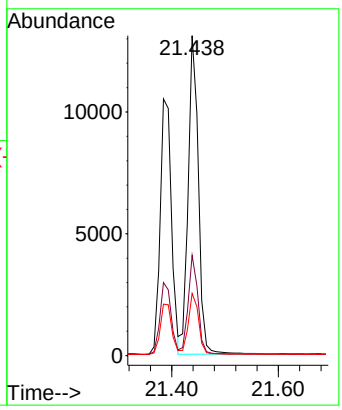


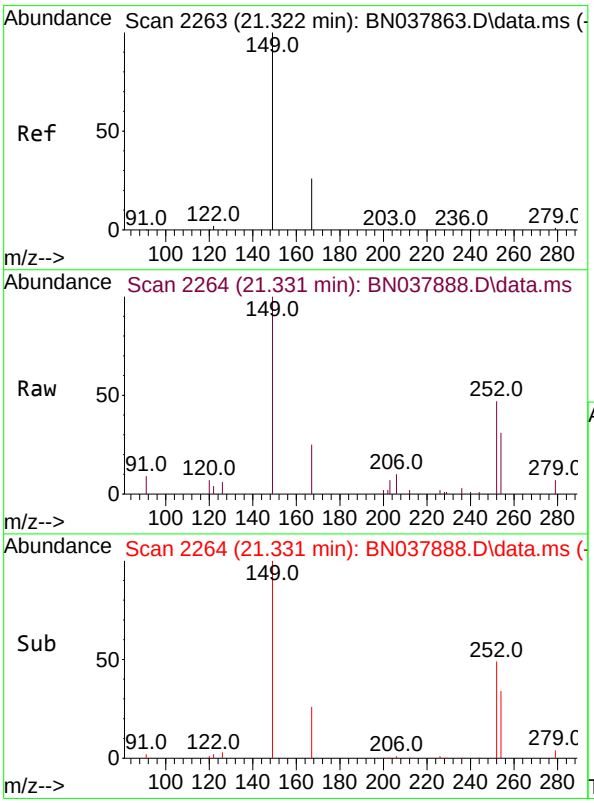
#33
Chrysene
Concen: 0.388 ng
RT: 21.438 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:228 Resp: 17365

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.6	37.0
229	19.4	15.6	23.4

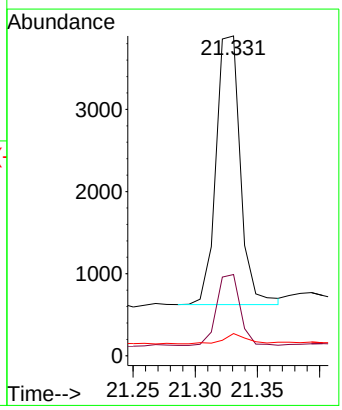


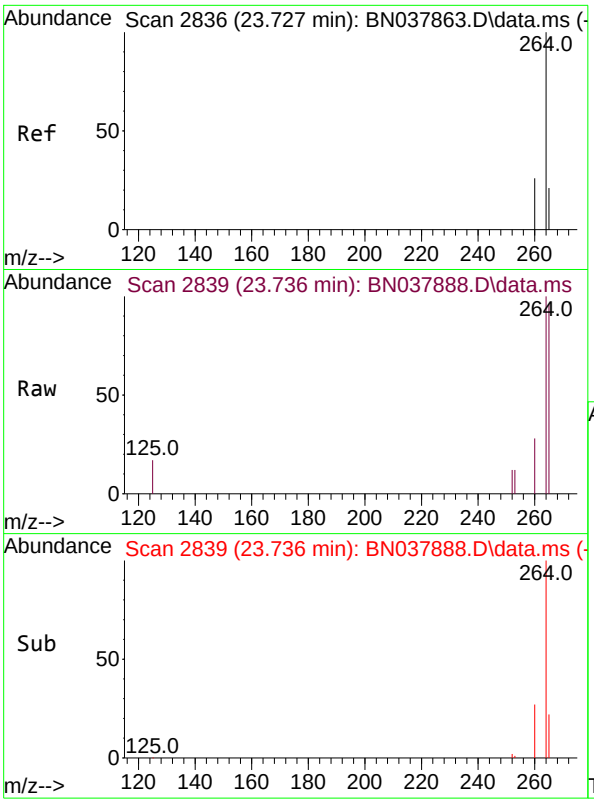


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.272 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.009 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:149 Resp: 4456

Ion	Ratio	Lower	Upper
149	100		
167	25.5	20.4	30.6
279	3.6	2.4	3.6#



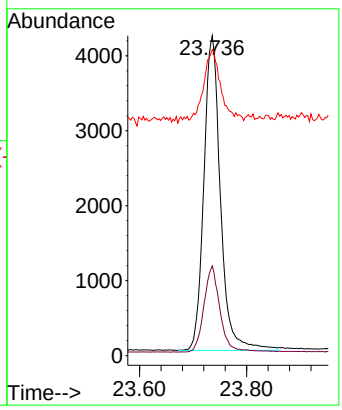


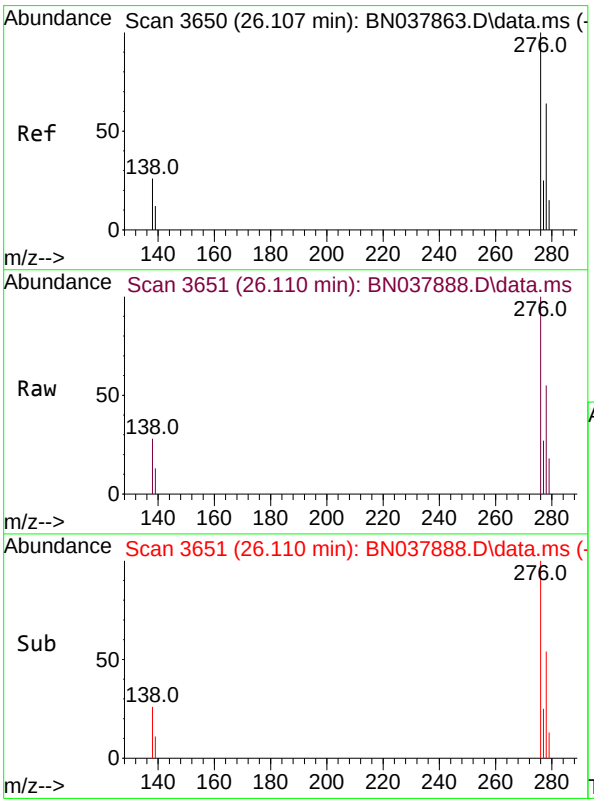
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 28
Delta R.T. 0.009 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:264 Resp: 9036

Ion	Ratio	Lower	Upper
264	100		
260	28.0	21.5	32.3
265	95.6	53.8	80.6#

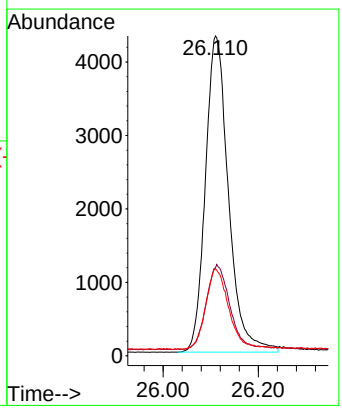


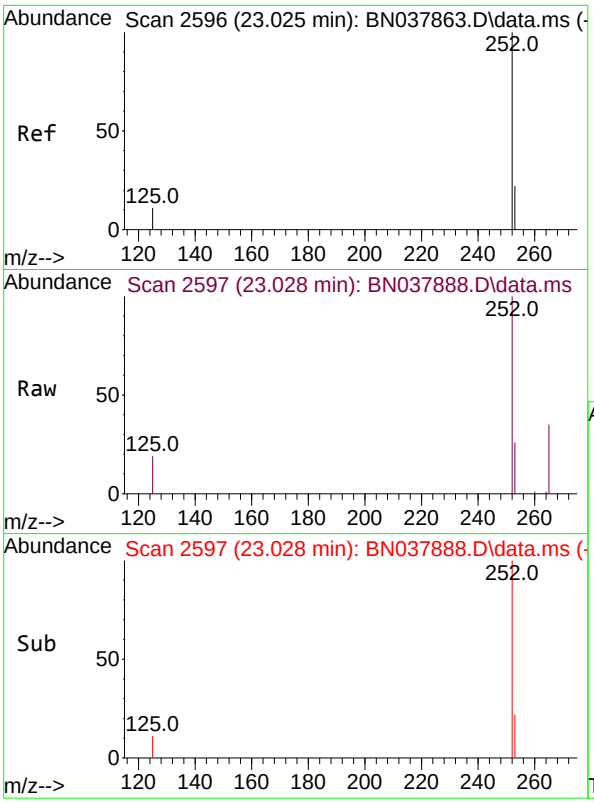


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.352 ng
RT: 26.110 min Scan# 3651
Delta R.T. 0.003 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:276 Resp: 14519

Ion	Ratio	Lower	Upper
276	100		
138	26.9	21.4	32.0
277	25.1	20.3	30.5



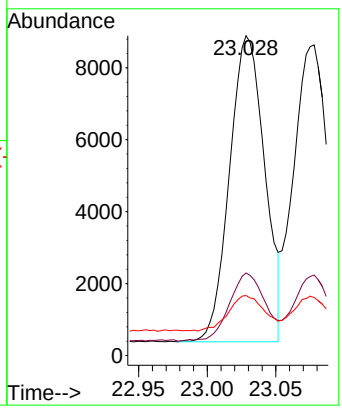


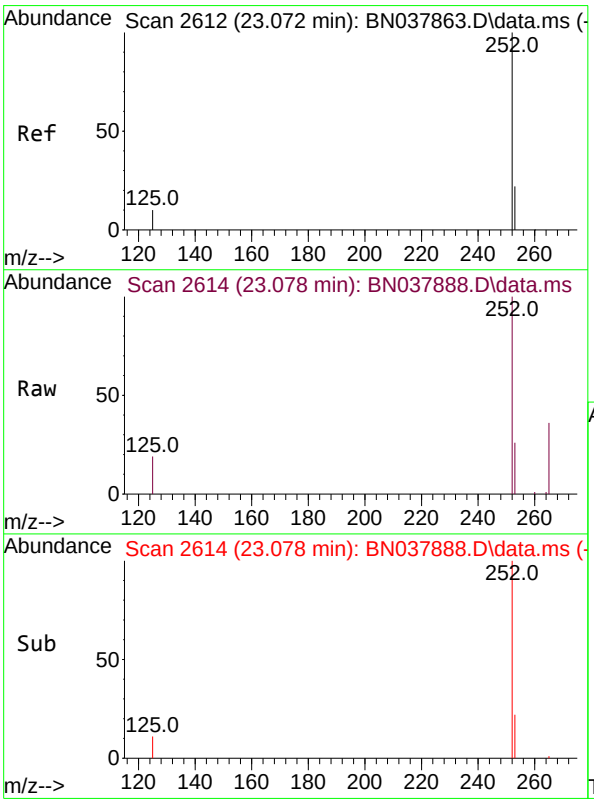
#37
Benzo(b)fluoranthene
Concen: 0.389 ng
RT: 23.028 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:252 Resp: 15158

Ion	Ratio	Lower	Upper
252	100		
253	25.8	19.4	29.0
125	18.8	13.0	19.4

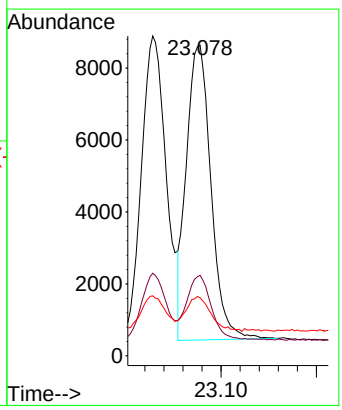


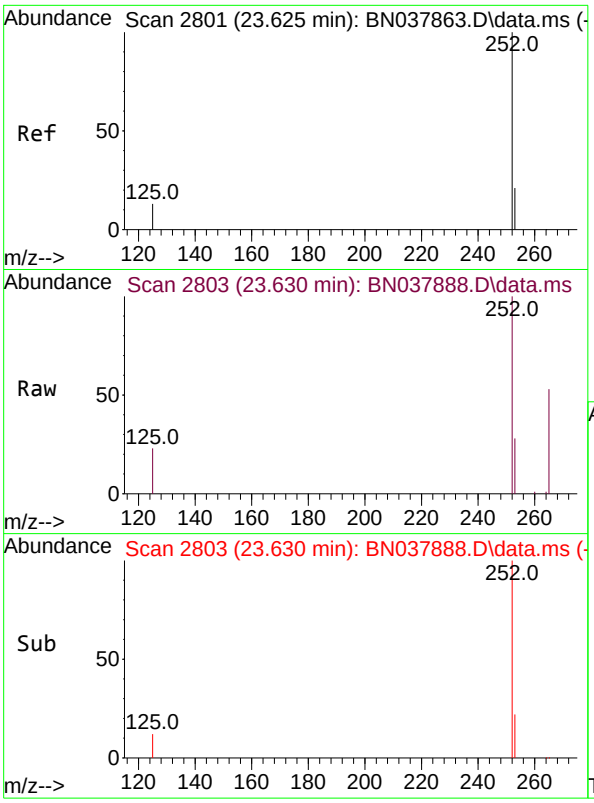


#38
Benzo(k)fluoranthene
Concen: 0.376 ng
RT: 23.078 min Scan# 2614
Delta R.T. 0.006 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:252 Resp: 14723

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.5	29.3
125	18.7	13.0	19.4



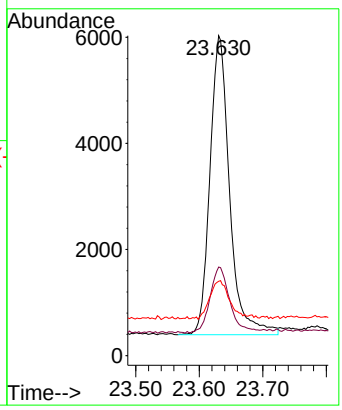


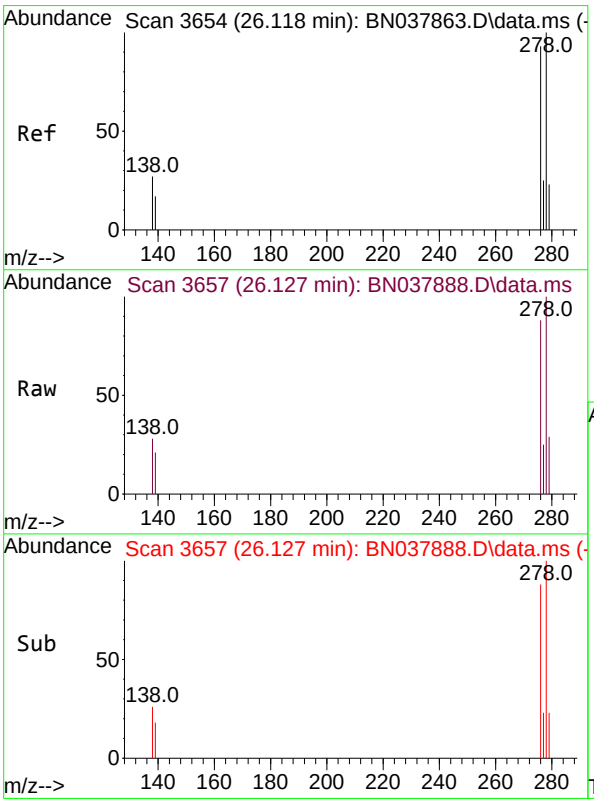
#39
Benzo(a)pyrene
Concen: 0.393 ng
RT: 23.630 min Scan# 28
Delta R.T. 0.006 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:252 Resp: 12124

Ion	Ratio	Lower	Upper
252	100		
253	27.7	20.6	30.8
125	23.2	16.7	25.1

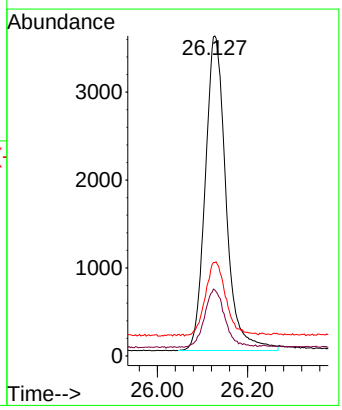


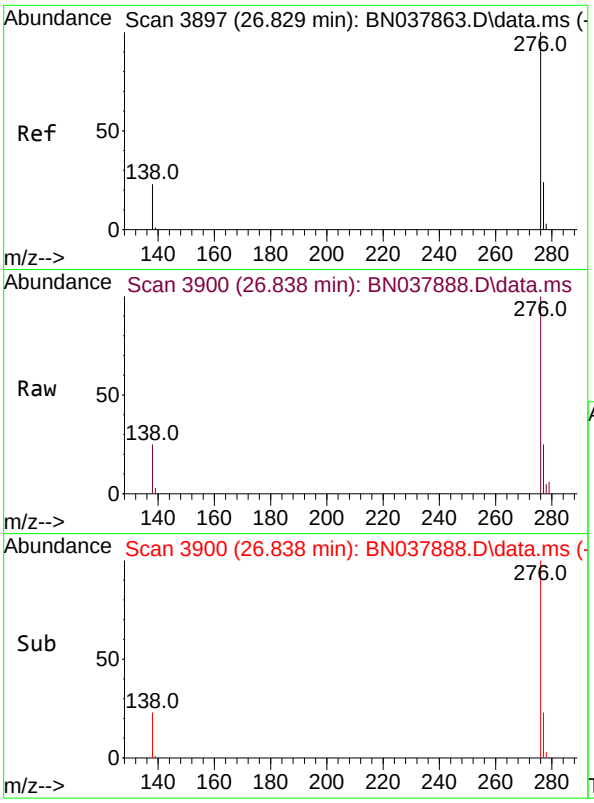


#40
Dibenzo(a,h)anthracene
Concen: 0.355 ng
RT: 26.127 min Scan# 3657
Delta R.T. 0.009 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:278 Resp: 11453

Ion	Ratio	Lower	Upper
278	100		
139	20.6	15.4	23.2
279	29.2	20.8	31.2



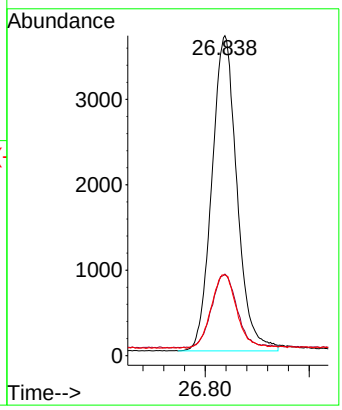


#41
Benzo(g,h,i)perylene
Concen: 0.367 ng
RT: 26.838 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Tgt Ion:276 Resp: 12421

Ion	Ratio	Lower	Upper
276	100		
277	25.5	20.2	30.4
138	25.2	19.8	29.8



Raw Data: **BN037772.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911MS	SDG No.:	Q3097
Lab Sample ID:	Q3097-02MS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037772.D	1	09/15/25 12:00	09/18/25 11:48	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.72		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		87%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		76%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		107%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7220	7.833				
1146-65-2	Naphthalene-d8	19400	10.637				
15067-26-2	Acenaphthene-d10	8790	14.484				
1517-22-2	Phenanthrene-d10	14600	17.236				
1719-03-5	Chrysene-d12	11100	21.411				
1520-96-3	Perylene-d12	10700	23.744				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037772.D
Acq On : 18 Sep 2025 11:48
Operator : RC/JU
Sample : Q3097-02MS
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Quant Time: Sep 18 12:16:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

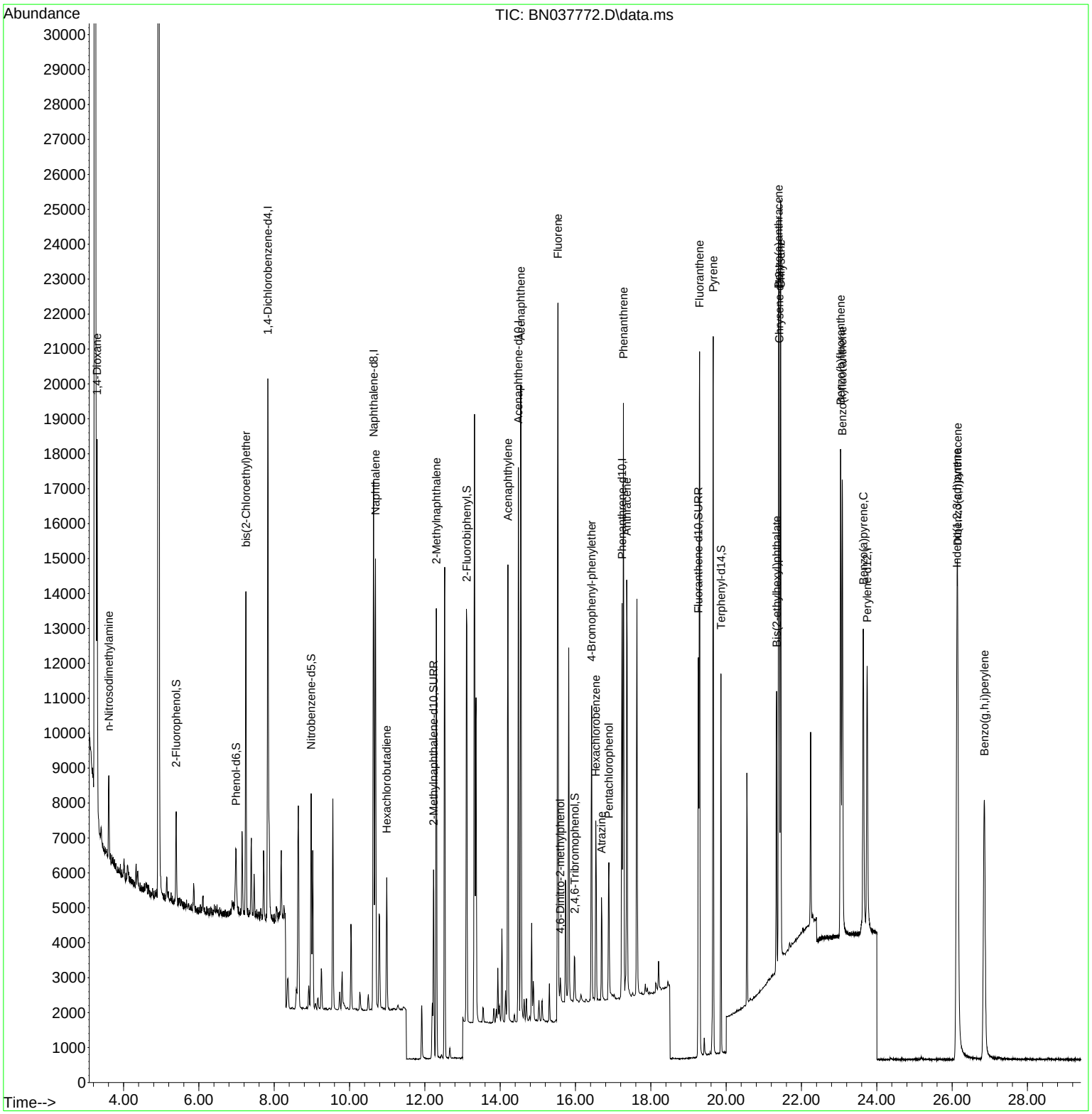
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.833	152	7218	0.400	ng		0.00
7) Naphthalene-d8	10.637	136	19437	0.400	ng		-0.01
13) Acenaphthene-d10	14.484	164	8792	0.400	ng		-0.01
19) Phenanthrene-d10	17.236	188	14560	0.400	ng	#	0.00
29) Chrysene-d12	21.411	240	11077	0.400	ng	#	0.00
35) Perylene-d12	23.744	264	10712	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.399	112	2158	0.130	ng		0.00
5) Phenol-d6	6.988	99	1612	0.075	ng		0.00
8) Nitrobenzene-d5	8.982	82	4623	0.325	ng		-0.01
11) 2-Methylnaphthalene-d10	12.233	152	7201	0.280	ng		-0.01
14) 2,4,6-Tribromophenol	15.982	330	880	0.384	ng		0.00
15) 2-Fluorobiphenyl	13.115	172	11146	0.303	ng		0.00
27) Fluoranthene-d10	19.262	212	12673	0.347	ng		0.00
31) Terphenyl-d14	19.861	244	9630	0.428	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	5443	0.724	ng		95
3) n-Nitrosodimethylamine	3.608	42	1281	0.130	ng		87
6) bis(2-Chloroethyl)ether	7.248	93	6334	0.330	ng		99
9) Naphthalene	10.690	128	17098	0.322	ng		99
10) Hexachlorobutadiene	10.989	225	2914	0.303	ng	#	100
12) 2-Methylnaphthalene	12.304	142	9253	0.282	ng		100
16) Acenaphthylene	14.206	152	13679	0.339	ng		100
17) Acenaphthene	14.548	154	8588	0.315	ng		99
18) Fluorene	15.535	166	10257	0.311	ng		98
20) 4,6-Dinitro-2-methylph...	15.597	198	483	0.358	ng	#	72
21) 4-Bromophenyl-phenylether	16.429	248	3439	0.362	ng	#	89
22) Hexachlorobenzene	16.540	284	4153	0.380	ng		97
23) Atrazine	16.689	200	2516	0.417	ng	#	91
24) Pentachlorophenol	16.888	266	2259	0.712	ng		97
25) Phenanthrene	17.273	178	17041	0.372	ng		100
26) Anthracene	17.360	178	14357	0.354	ng		100
28) Fluoranthene	19.294	202	18098	0.360	ng		99
30) Pyrene	19.657	202	18207	0.420	ng		100
32) Benzo(a)anthracene	21.393	228	16075	0.416	ng		100
33) Chrysene	21.447	228	17366	0.419	ng		99
34) Bis(2-ethylhexyl)phtha...	21.340	149	5730	0.500	ng		98
36) Indeno(1,2,3-cd)pyrene	26.127	276	20796	0.462	ng		99
37) Benzo(b)fluoranthene	23.037	252	18047	0.428	ng		97
38) Benzo(k)fluoranthene	23.084	252	17770	0.413	ng		97
39) Benzo(a)pyrene	23.642	252	14195	0.420	ng		97
40) Dibenzo(a,h)anthracene	26.148	278	16460	0.458	ng		98
41) Benzo(g,h,i)perylene	26.855	276	17542	0.435	ng		98

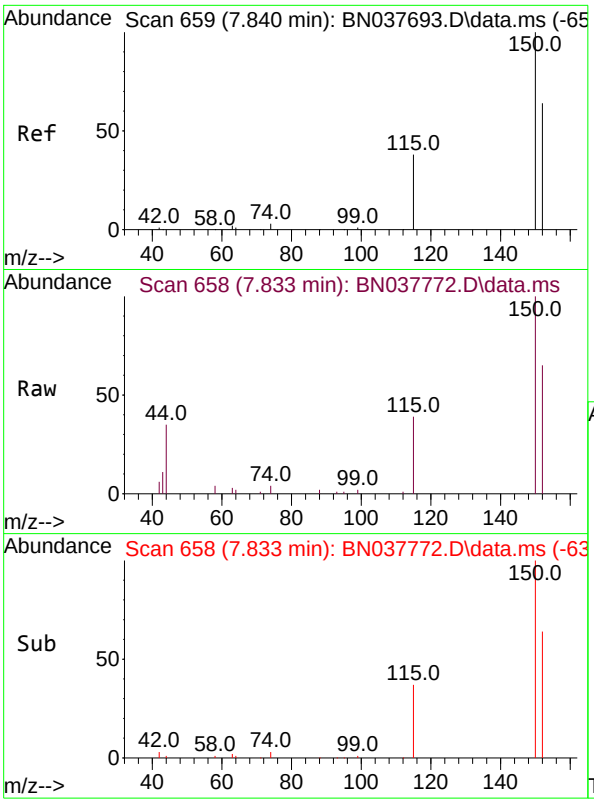
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037772.D
Acq On : 18 Sep 2025 11:48
Operator : RC/JU
Sample : Q3097-02MS
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Quant Time: Sep 18 12:16:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



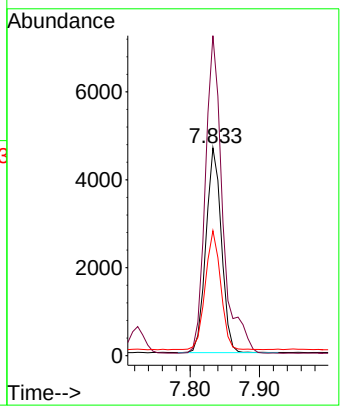


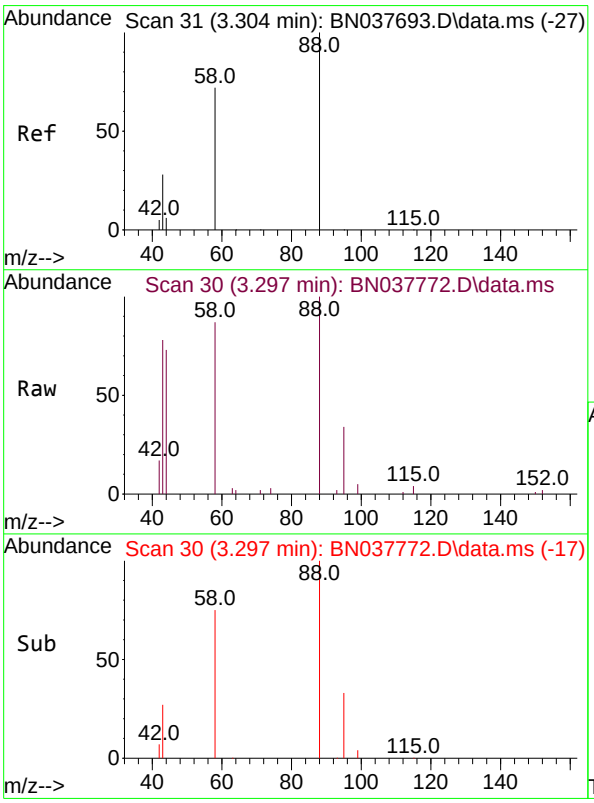
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:152 Resp: 7218

Ion	Ratio	Lower	Upper
152	100		
150	154.1	124.5	186.7
115	60.1	49.2	73.8

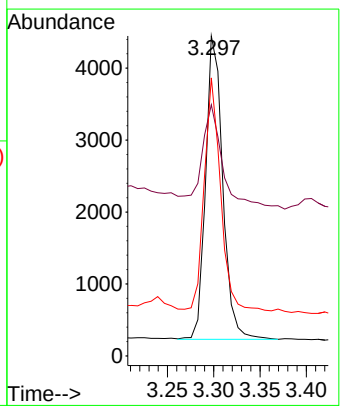


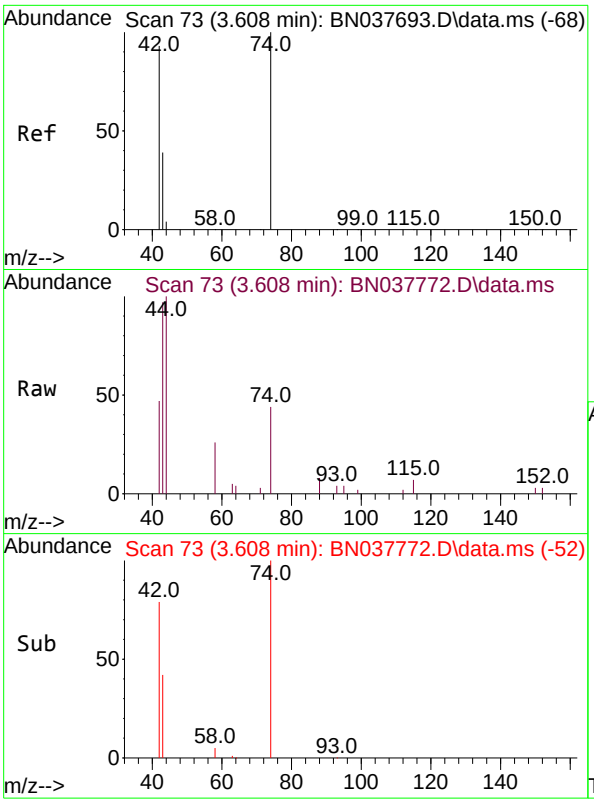


#2
1,4-Dioxane
Concen: 0.724 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion: 88 Resp: 5443

Ion	Ratio	Lower	Upper
88	100		
43	37.1	26.8	40.2
58	73.0	61.9	92.9



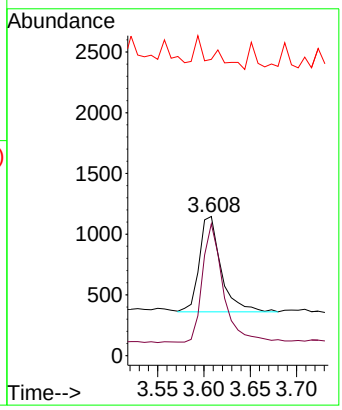


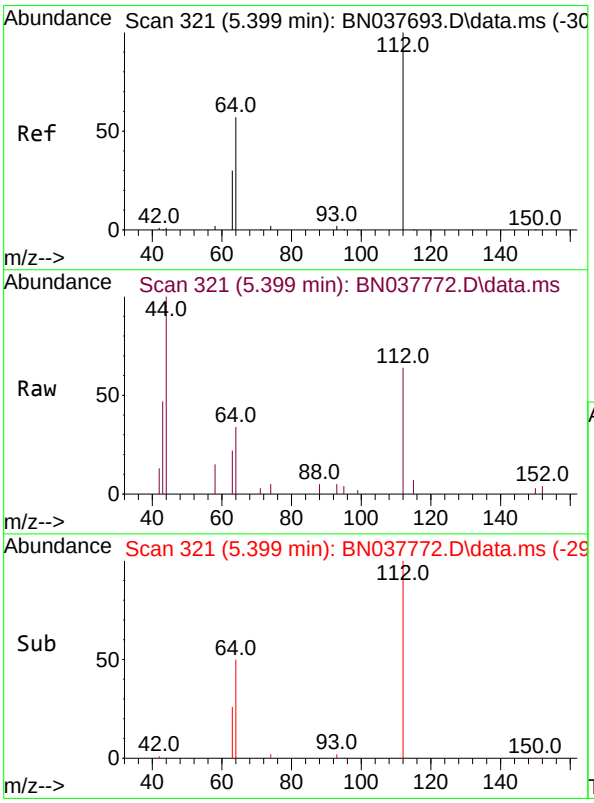
#3
n-Nitrosodimethylamine
Concen: 0.130 ng
RT: 3.608 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 42 Resp: 1281

Ion	Ratio	Lower	Upper
42	100		
74	121.5	86.0	129.0
44	11.9	8.4	12.6

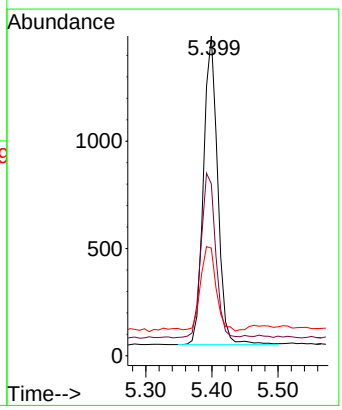


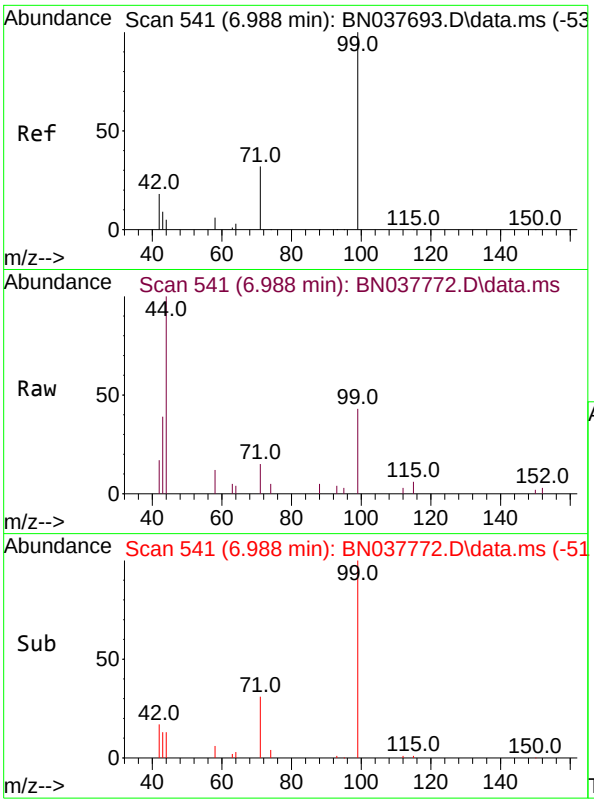


#4
2-Fluorophenol
Concen: 0.130 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:112 Resp: 2158

Ion	Ratio	Lower	Upper
112	100		
64	54.4	44.9	67.3
63	29.7	24.7	37.1



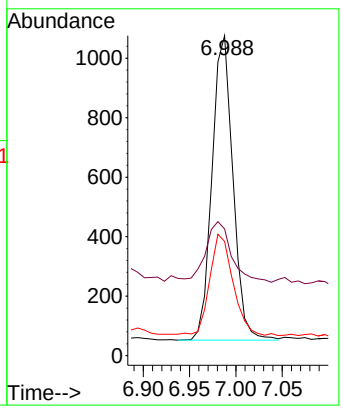


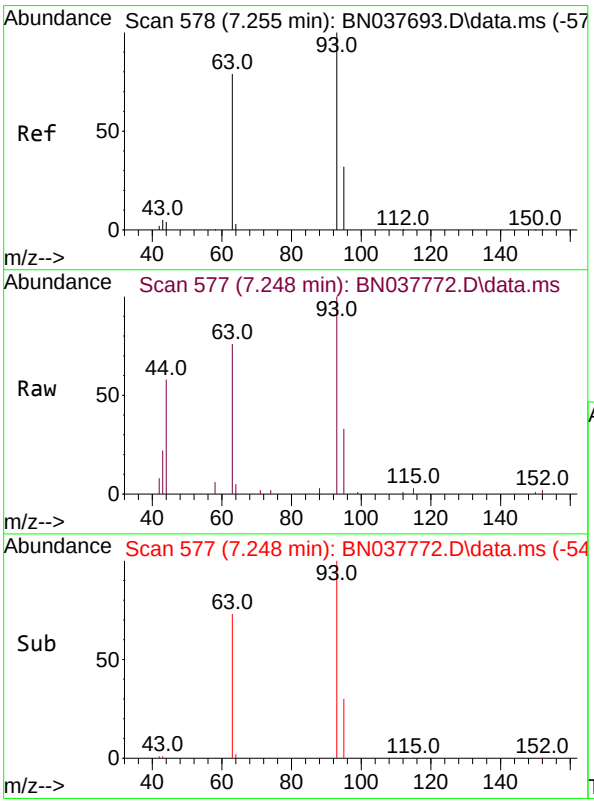
#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 99 Resp: 1612

Ion	Ratio	Lower	Upper
99	100		
42	24.2	16.6	24.8
71	36.7	26.7	40.1

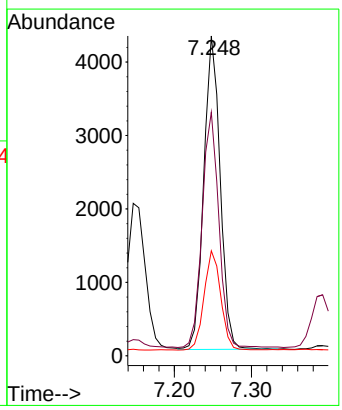


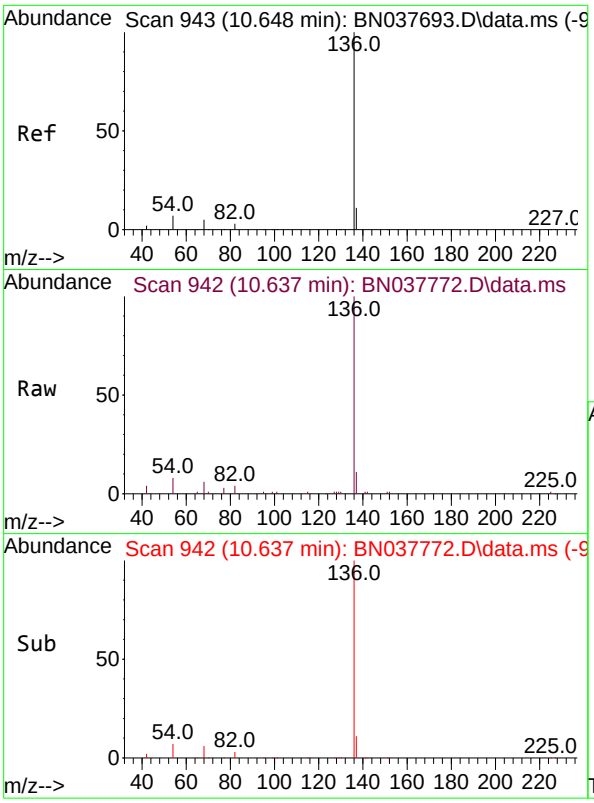


#6
bis(2-Chloroethyl)ether
Concen: 0.330 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion: 93 Resp: 6334

Ion	Ratio	Lower	Upper
93	100		
63	76.1	60.6	90.8
95	32.0	26.0	39.0



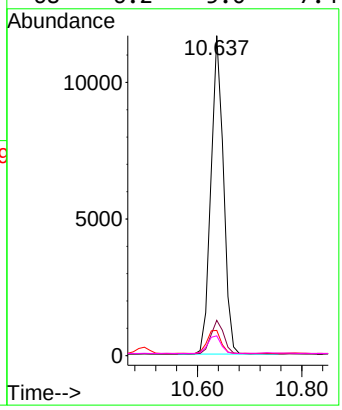


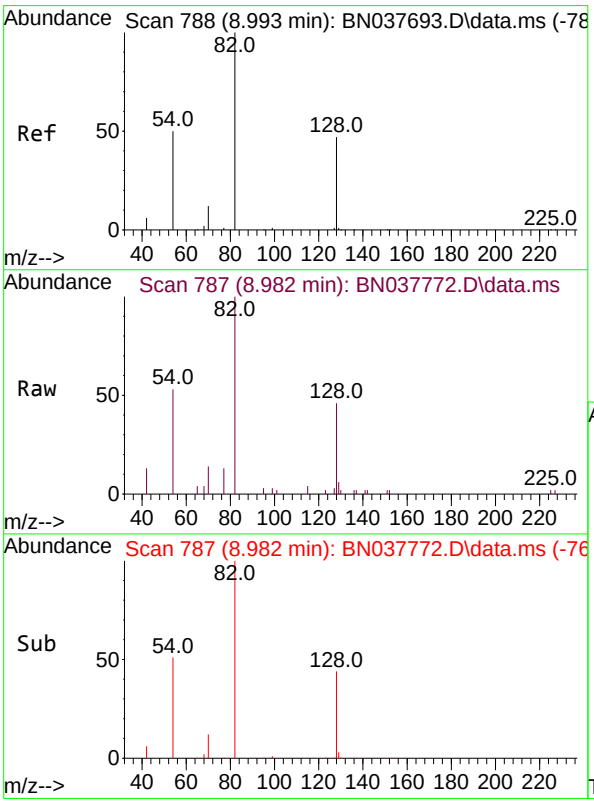
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:136 Resp: 19437

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.1	13.7
54	7.9	6.3	9.5
68	6.2	5.0	7.4

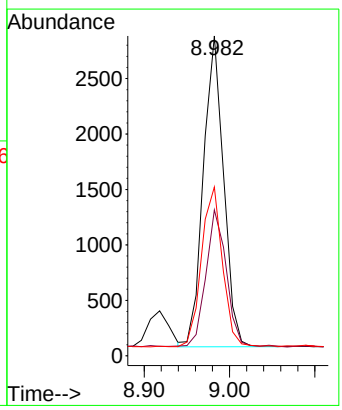


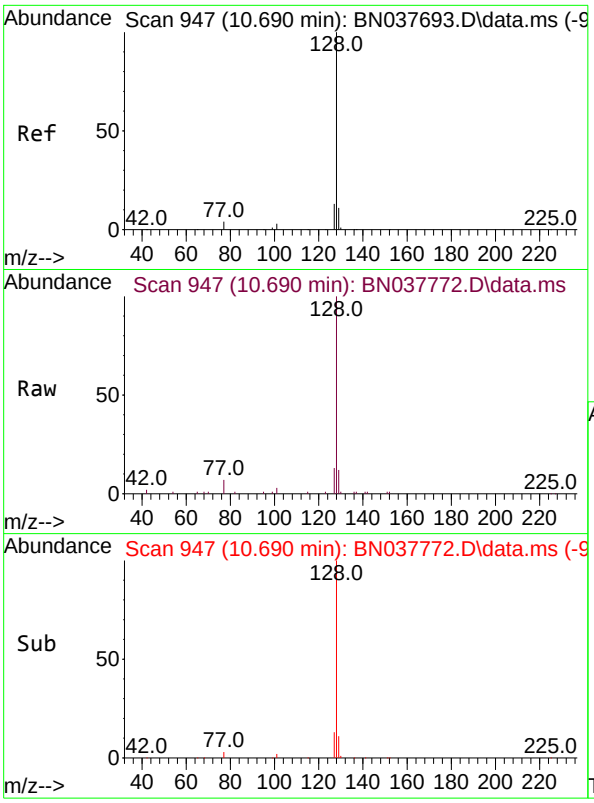


#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion: 82 Resp: 4623

Ion	Ratio	Lower	Upper
82	100		
128	45.6	38.3	57.5
54	52.8	41.4	62.2



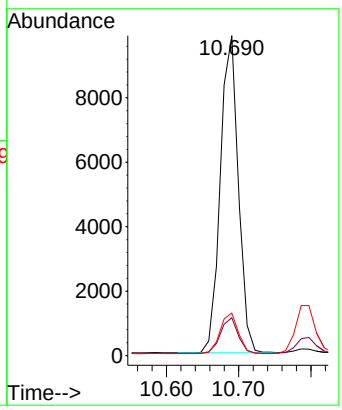


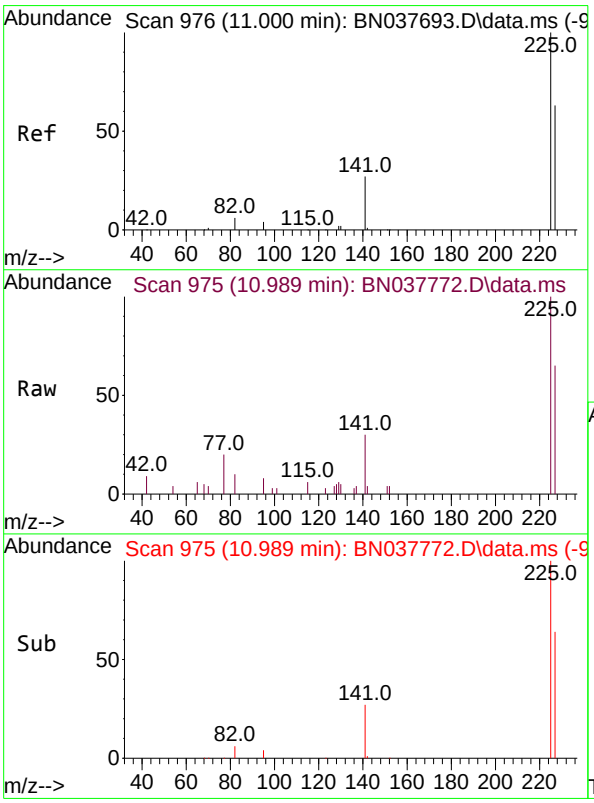
#9
Naphthalene
Concen: 0.322 ng
RT: 10.690 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:128 Resp: 17098

Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.1	13.7
127	13.3	10.9	16.3

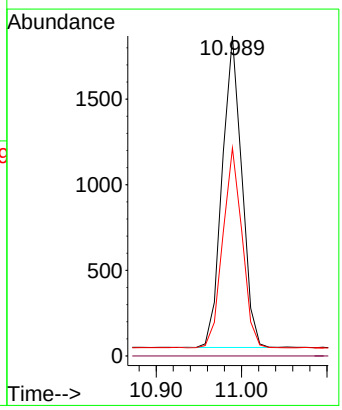


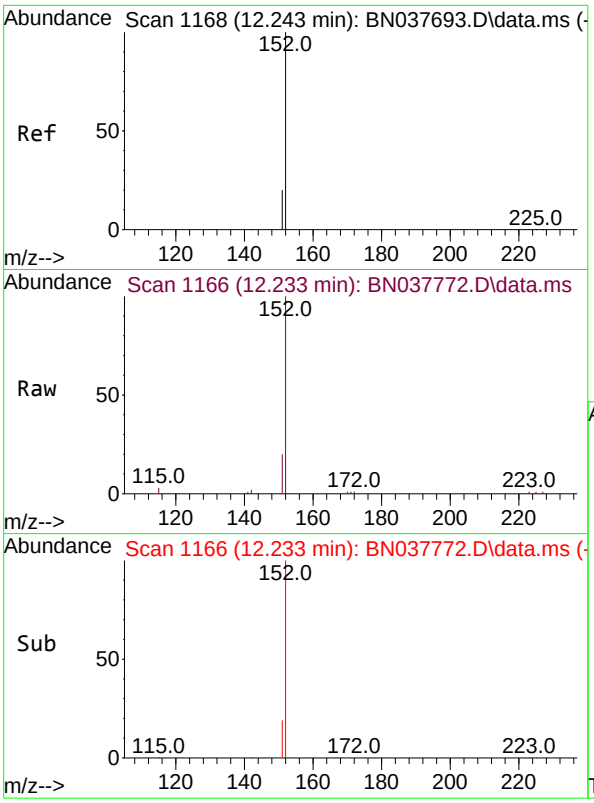


#10
Hexachlorobutadiene
Concen: 0.303 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:225 Resp: 2914

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	50.9	76.3



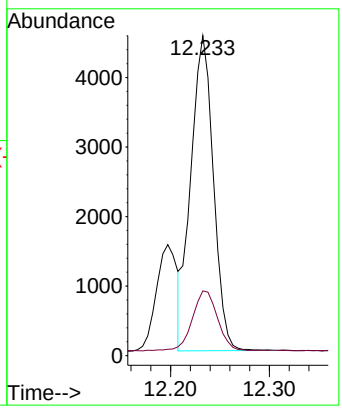


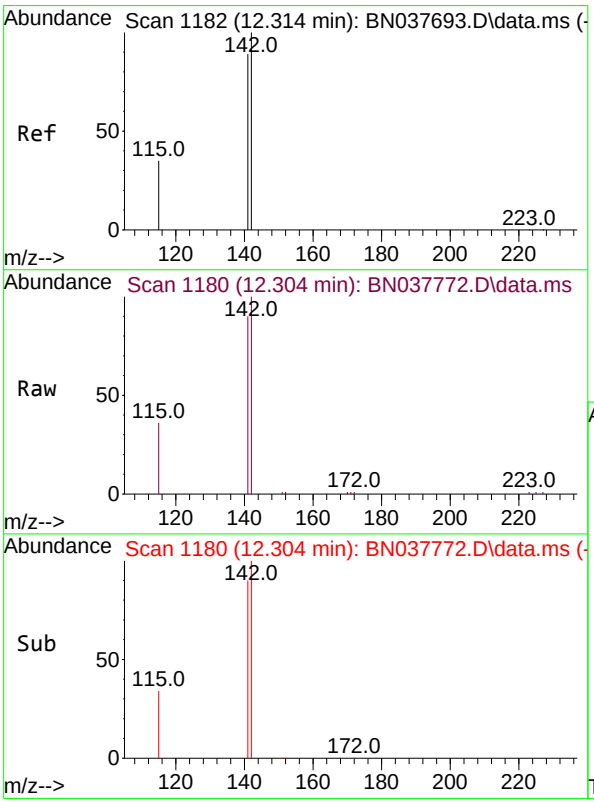
#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:152 Resp: 7201

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.0	25.6

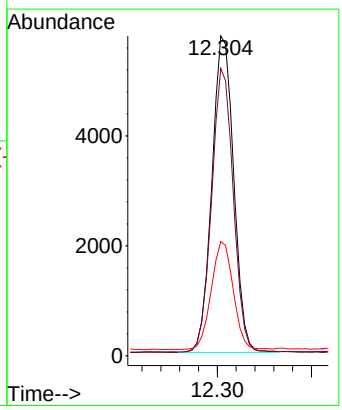


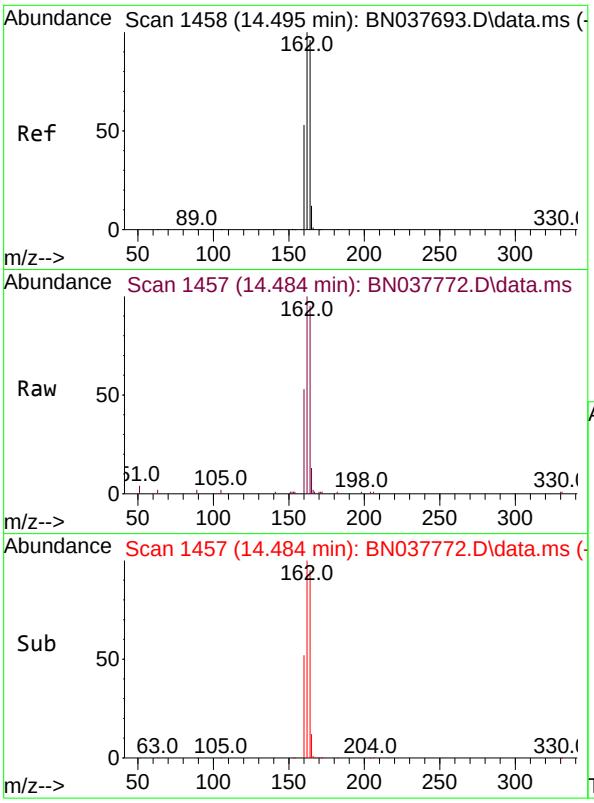


#12
2-Methylnaphthalene
Concen: 0.282 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:142 Resp: 9253

Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.6	107.4
115	35.7	28.6	43.0



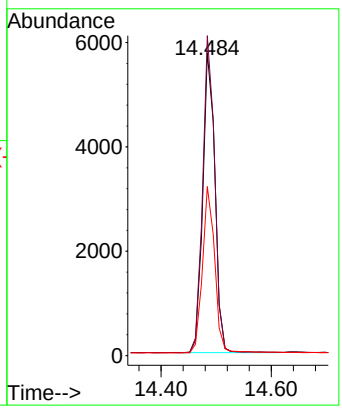


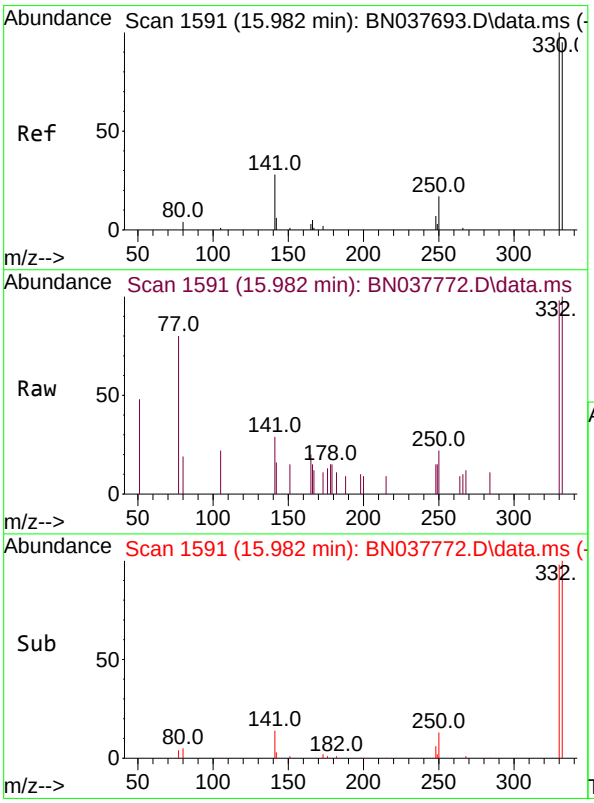
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:164 Resp: 8792

Ion	Ratio	Lower	Upper
164	100		
162	105.6	83.1	124.7
160	55.8	44.3	66.5

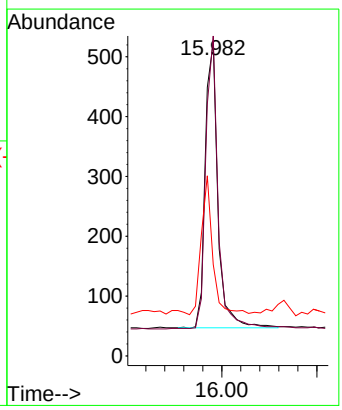


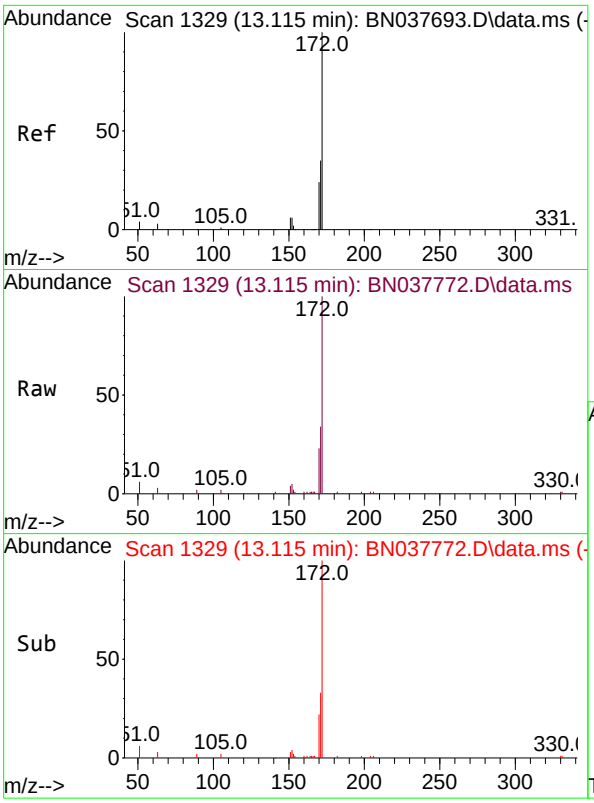


#14
2,4,6-Tribromophenol
Concen: 0.384 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:330 Resp: 880

Ion	Ratio	Lower	Upper
330	100		
332	100.5	75.3	112.9
141	43.6	35.0	52.4



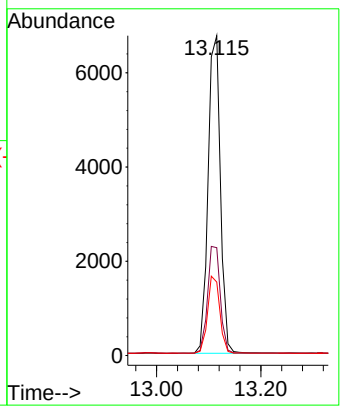


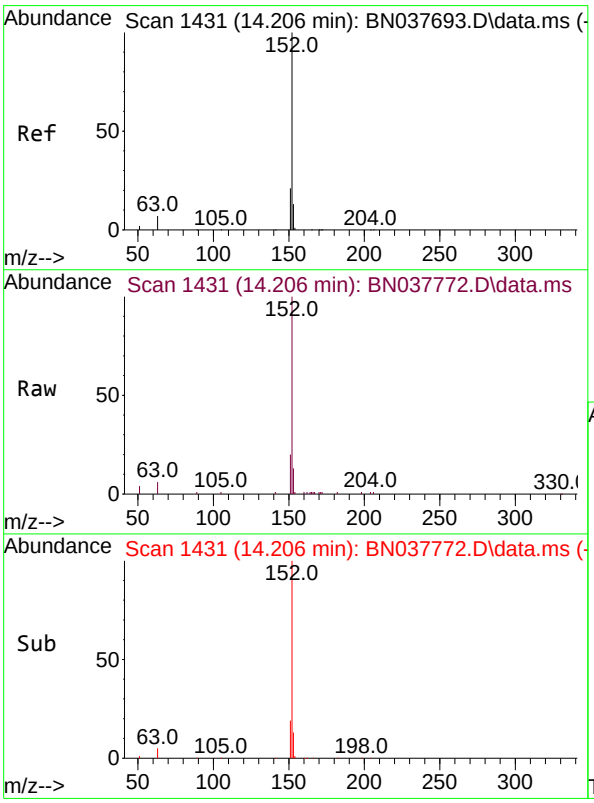
#15
2-Fluorobiphenyl
Concen: 0.303 ng
RT: 13.115 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:172 Resp: 11146

Ion	Ratio	Lower	Upper
172	100		
171	33.7	28.6	43.0
170	23.0	19.8	29.8

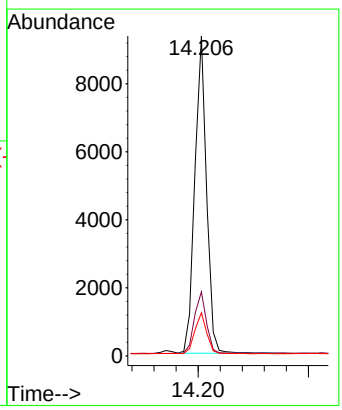


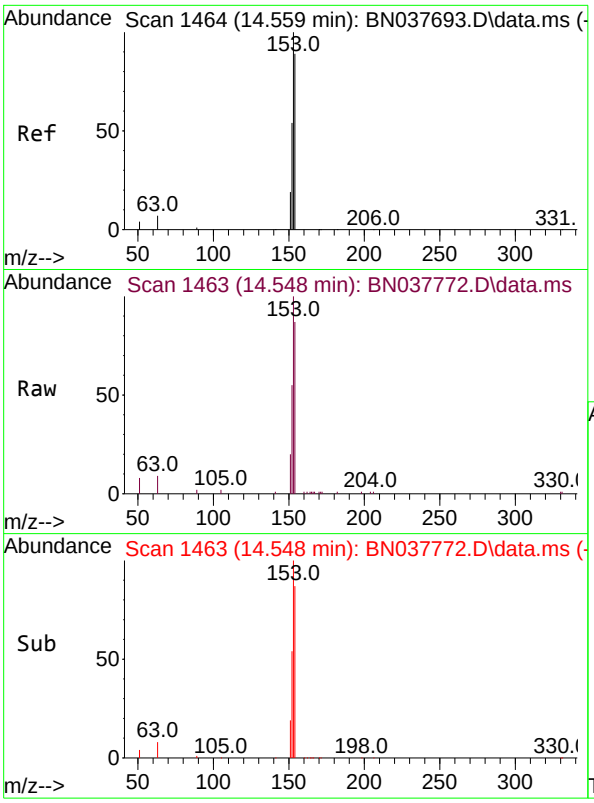


#16
Acenaphthylene
Concen: 0.339 ng
RT: 14.206 min Scan# 1431
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:152 Resp: 13679

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.2	10.4	15.6



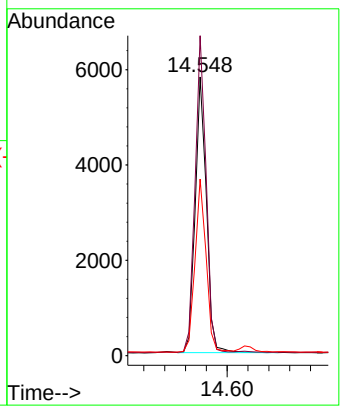


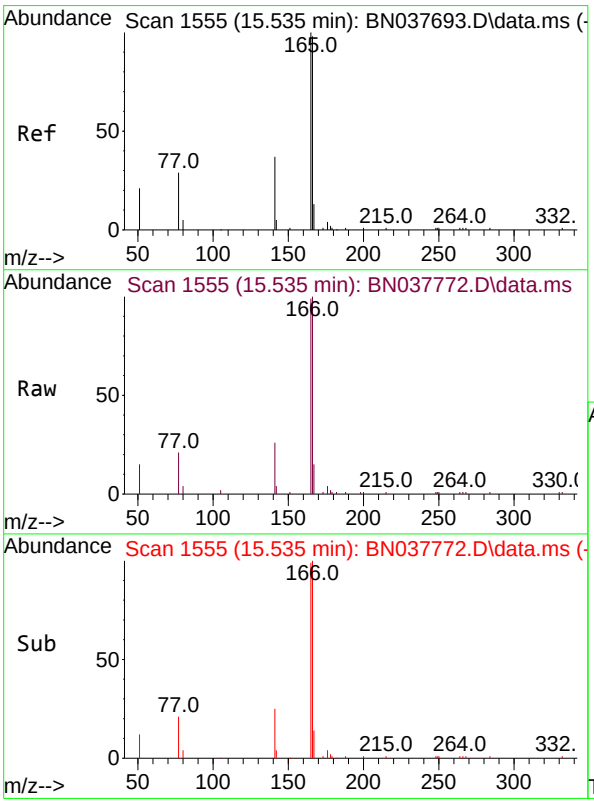
#17
Acenaphthene
Concen: 0.315 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:154 Resp: 8588

Ion	Ratio	Lower	Upper
154	100		
153	113.3	89.8	134.8
152	62.5	50.2	75.2

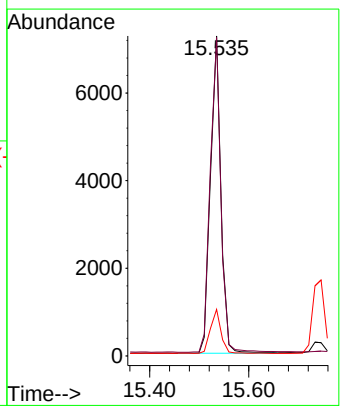


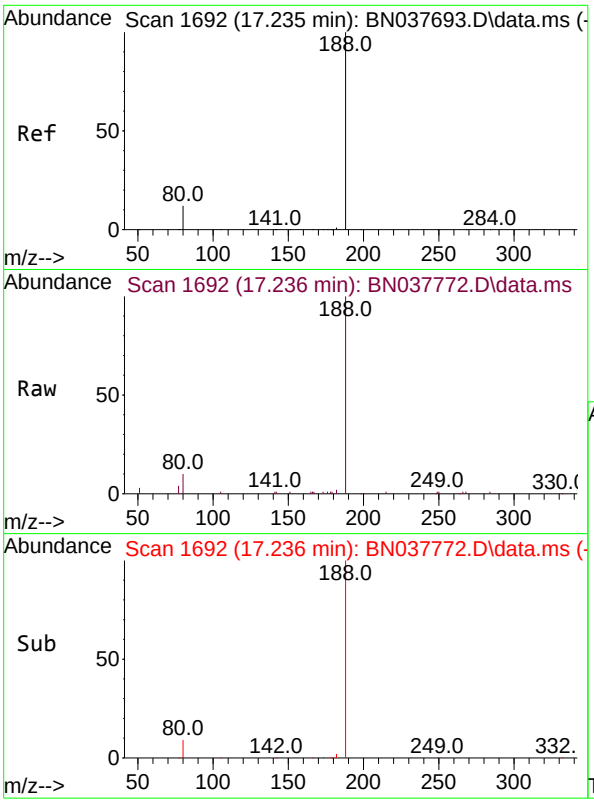


#18
Fluorene
Concen: 0.311 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:166 Resp: 10257

Ion	Ratio	Lower	Upper
166	100		
165	101.5	79.6	119.4
167	14.1	10.6	16.0



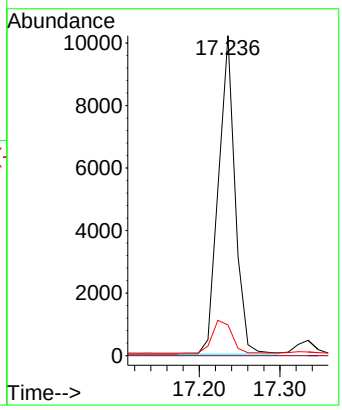


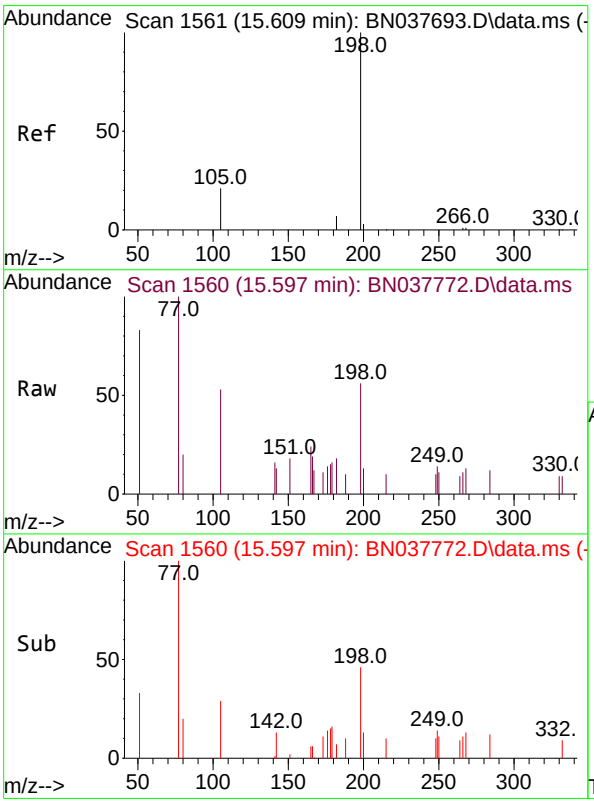
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:188 Resp: 14560

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.6	10.6	15.8#

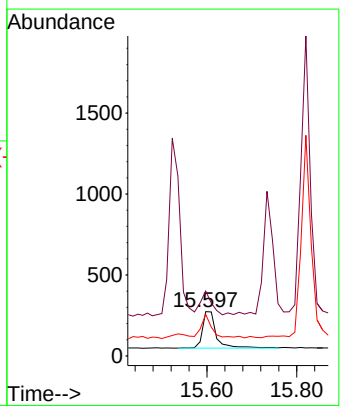


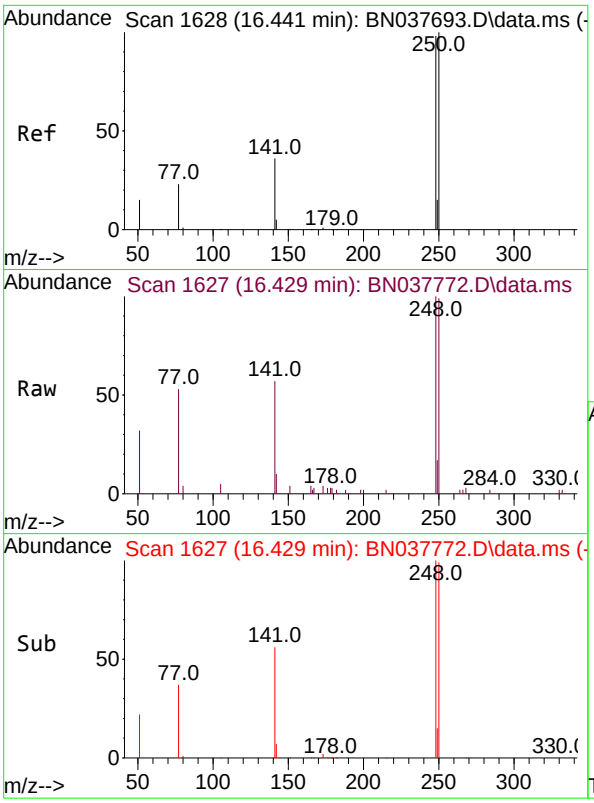


#20
4,6-Dinitro-2-methylphenol
Concen: 0.358 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:198 Resp: 483

Ion	Ratio	Lower	Upper
198	100		
51	146.4	95.1	142.7#
105	93.8	53.8	80.6#



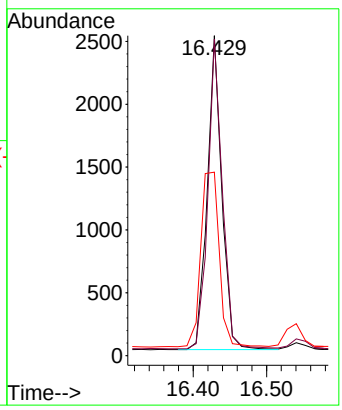


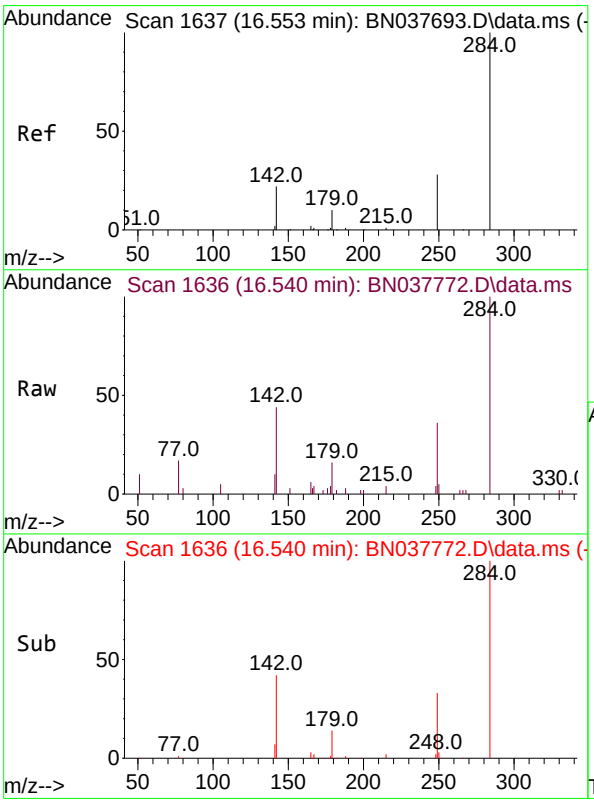
#21
4-Bromophenyl-phenylether
Concen: 0.362 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:248 Resp: 3439

Ion	Ratio	Lower	Upper
248	100		
250	98.9	81.5	122.3
141	57.3	30.8	46.2#

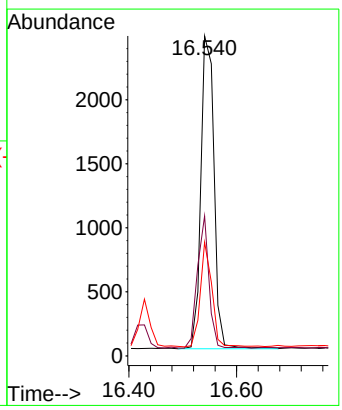


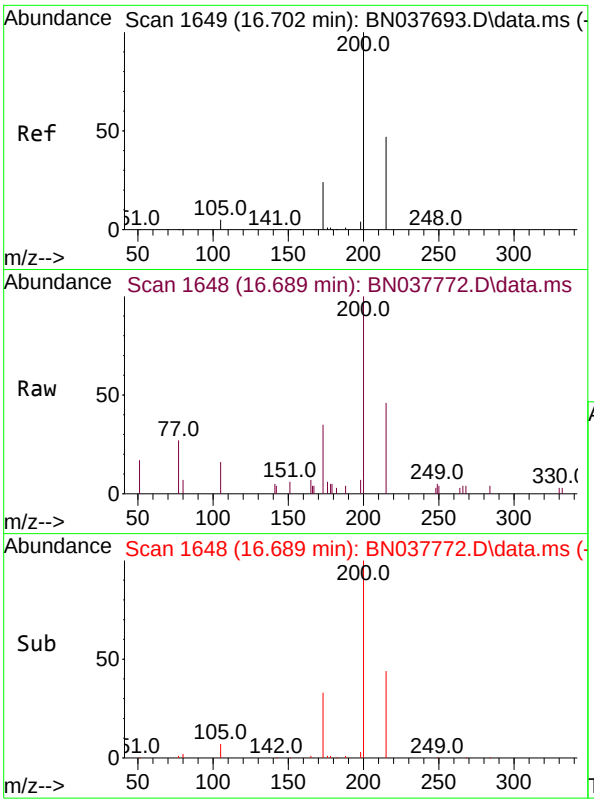


#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:284 Resp: 4153

Ion	Ratio	Lower	Upper
284	100		
142	37.0	30.9	46.3
249	29.4	24.8	37.2



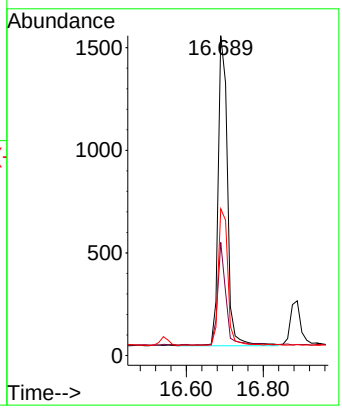


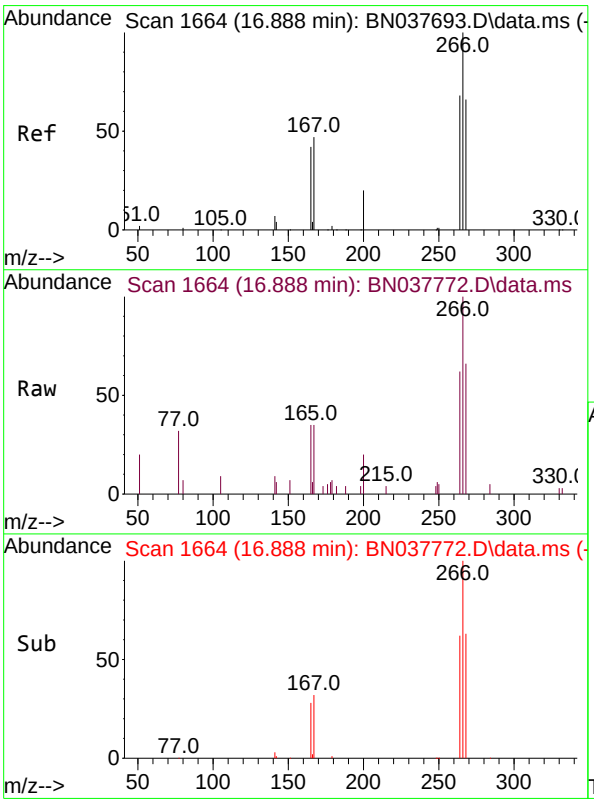
#23
Atrazine
Concen: 0.417 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:200 Resp: 2516

Ion	Ratio	Lower	Upper
200	100		
173	35.3	21.4	32.2#
215	45.9	39.2	58.8

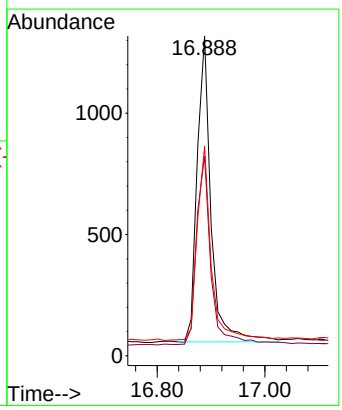


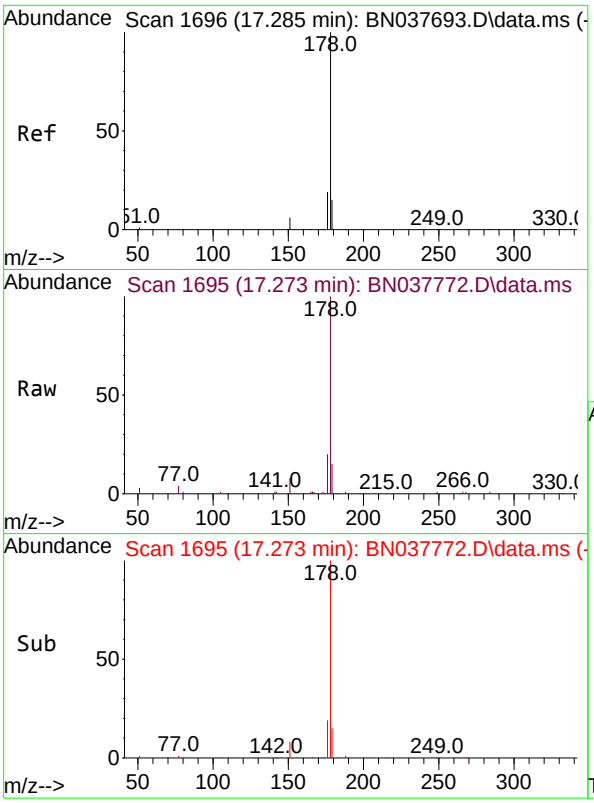


#24
Pentachlorophenol
Concen: 0.712 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:266 Resp: 2259

Ion	Ratio	Lower	Upper
266	100		
264	64.1	51.6	77.4
268	62.9	53.2	79.8



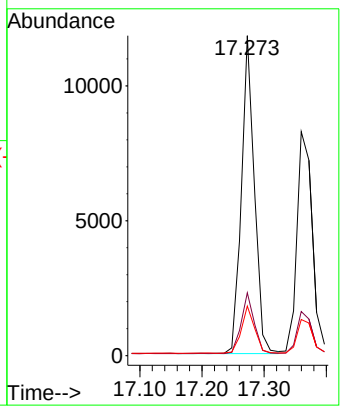


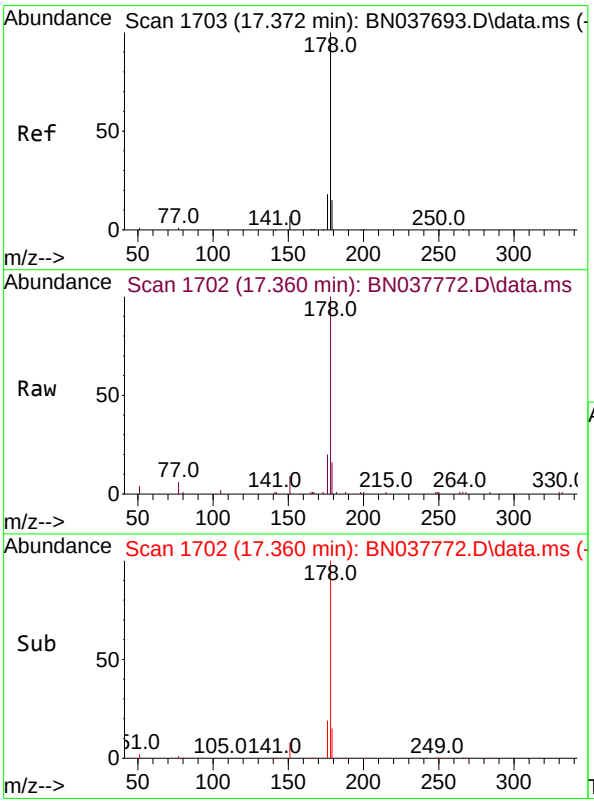
#25
Phenanthrene
Concen: 0.372 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:178 Resp: 17041

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.2	12.2	18.2

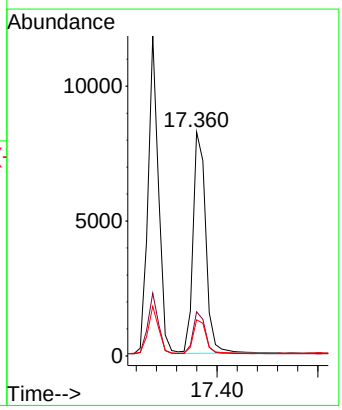


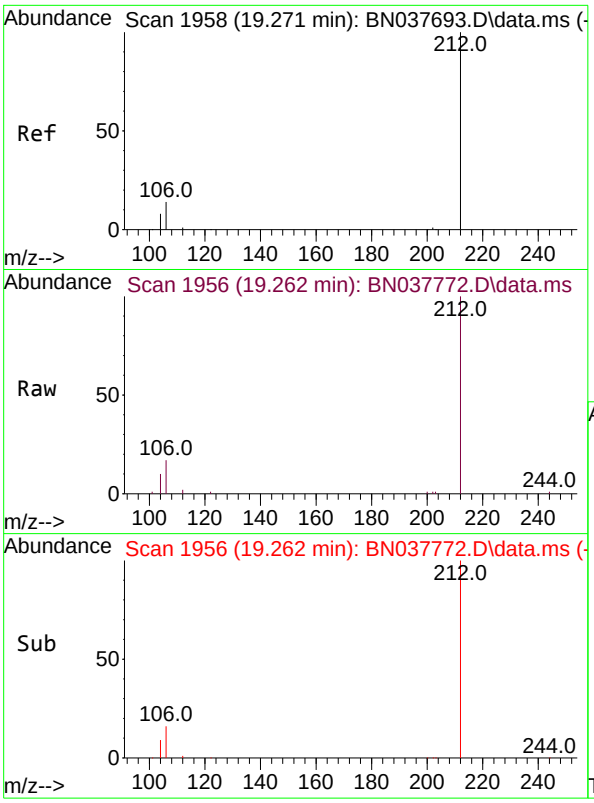


#26
Anthracene
Concen: 0.354 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:178 Resp: 14357

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	22.0
179	15.2	12.2	18.4



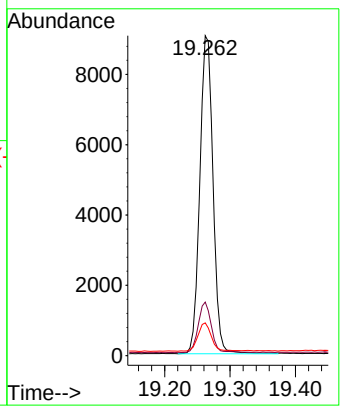


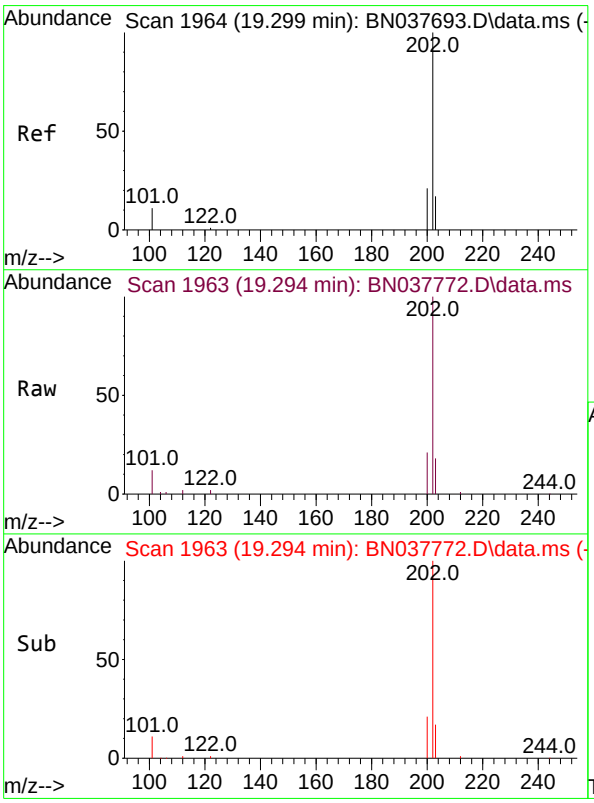
#27
Fluoranthene-d10
Concen: 0.347 ng
RT: 19.262 min Scan# 19
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:212 Resp: 12673

Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.2	18.2
104	9.1	6.9	10.3

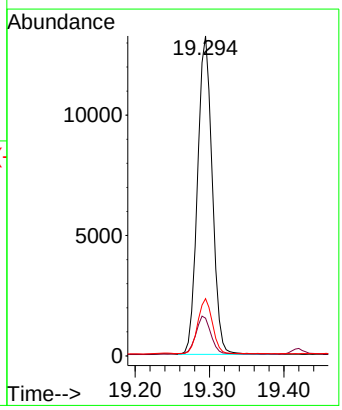


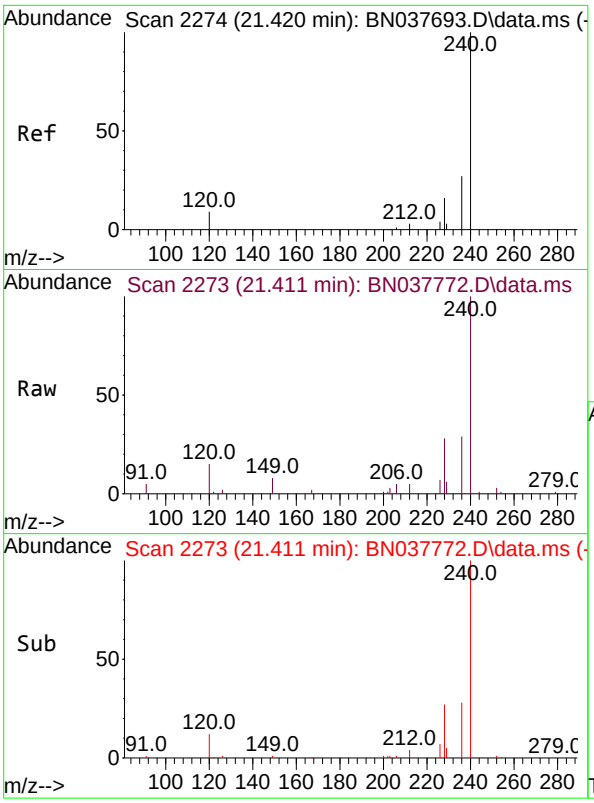


#28
Fluoranthene
Concen: 0.360 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:202 Resp: 18098

Ion	Ratio	Lower	Upper
202	100		
101	12.7	9.3	13.9
203	17.0	13.7	20.5



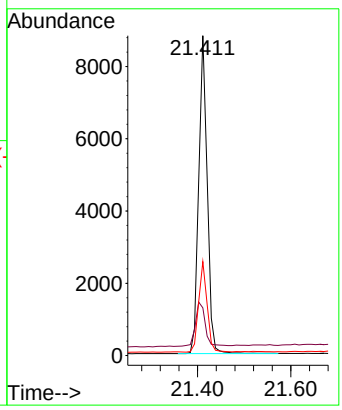


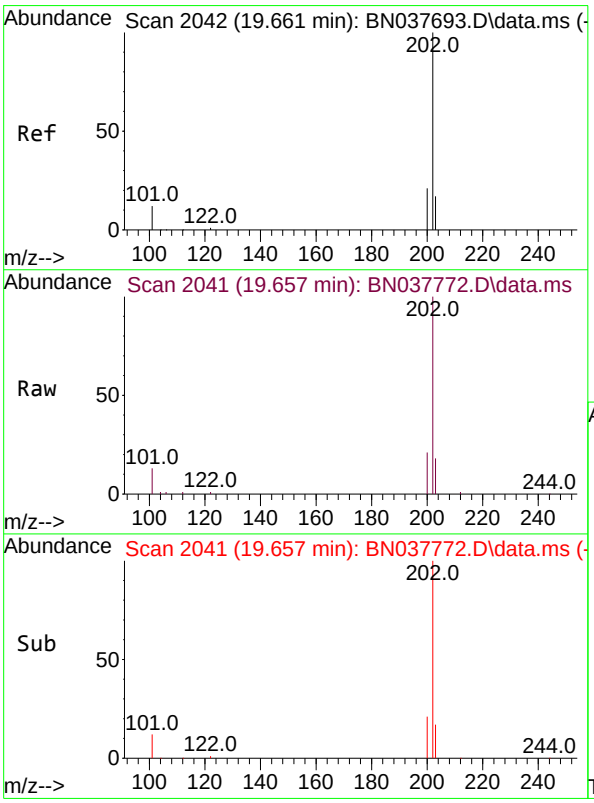
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:240 Resp: 11077

Ion	Ratio	Lower	Upper
240	100		
120	14.9	9.2	13.8#
236	29.4	22.6	33.8

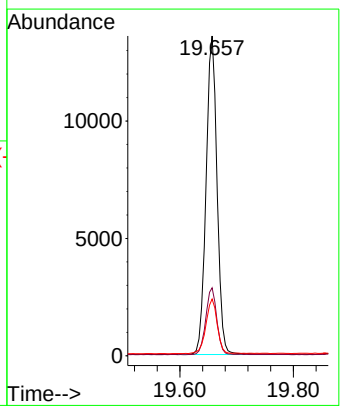


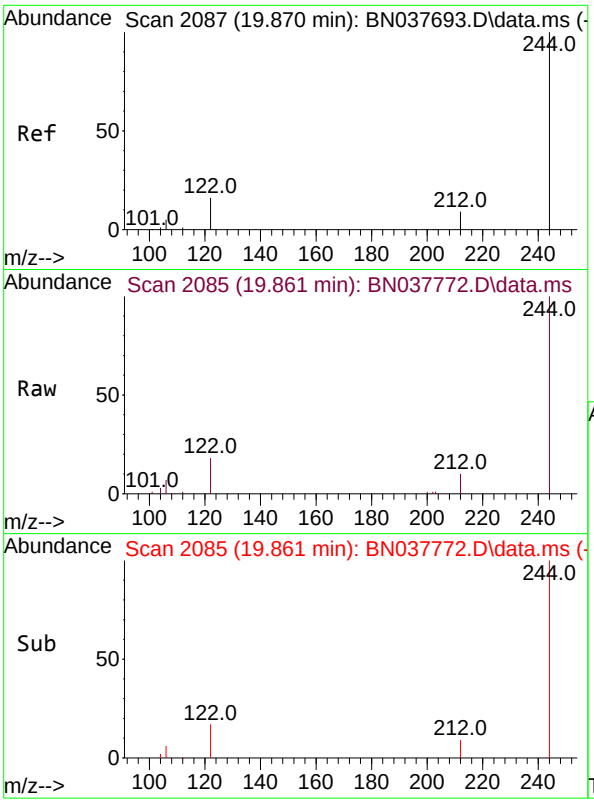


#30
Pyrene
Concen: 0.420 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:202 Resp: 18207

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.6	14.3	21.5



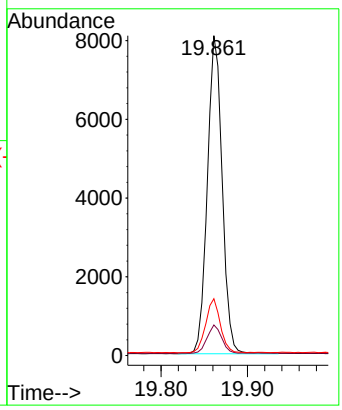


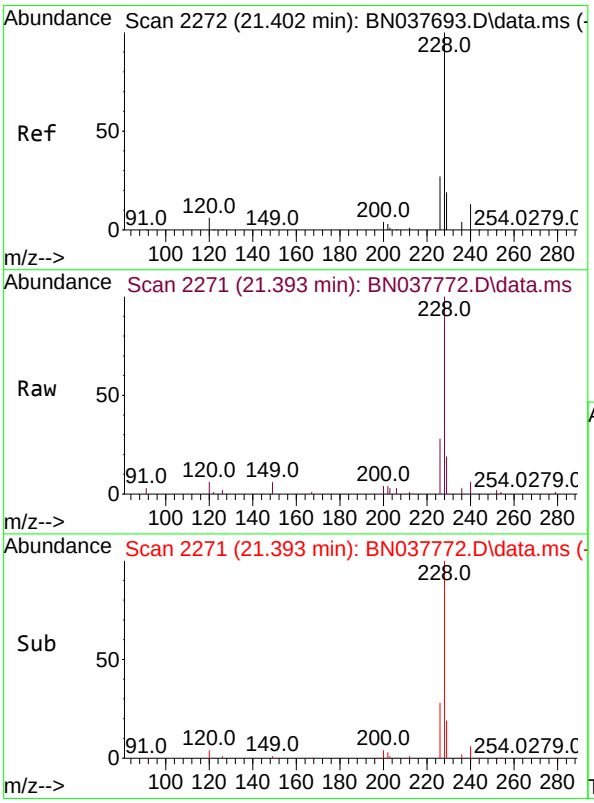
#31
Terphenyl-d14
Concen: 0.428 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:244 Resp: 9630

Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.5	11.3
122	17.8	13.2	19.8

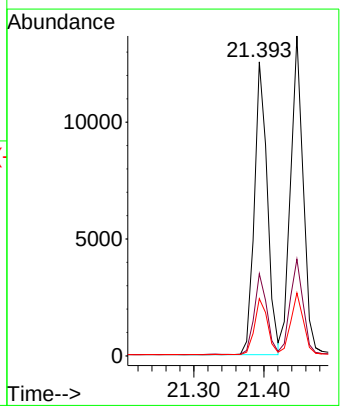


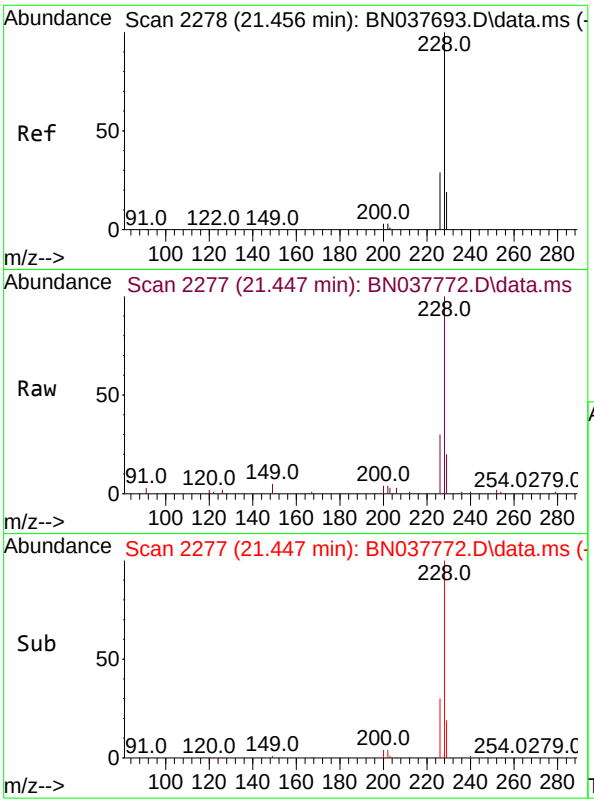


#32
Benzo(a)anthracene
Concen: 0.416 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:228 Resp: 16075

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.2	33.2
229	19.5	15.8	23.6



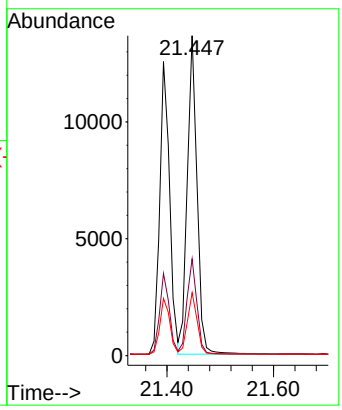


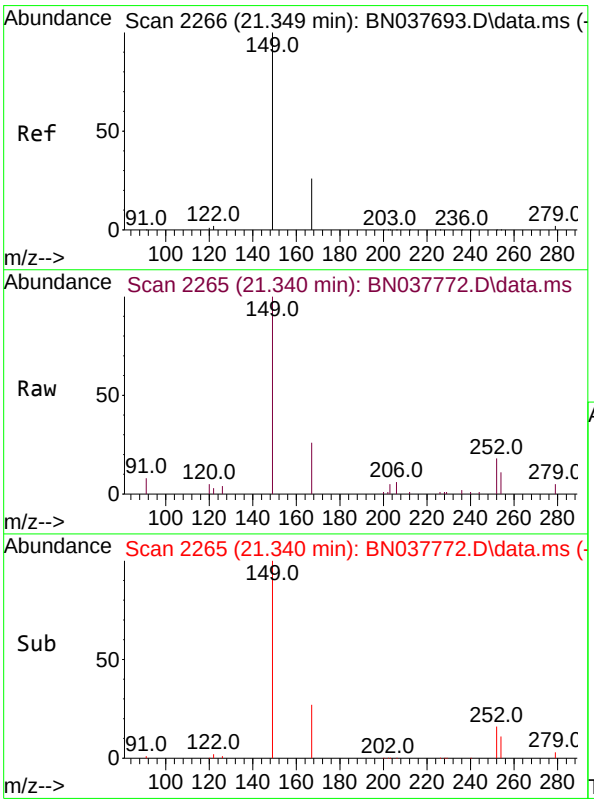
#33
Chrysene
Concen: 0.419 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:228 Resp: 17366

Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.5	35.3
229	19.7	15.9	23.9

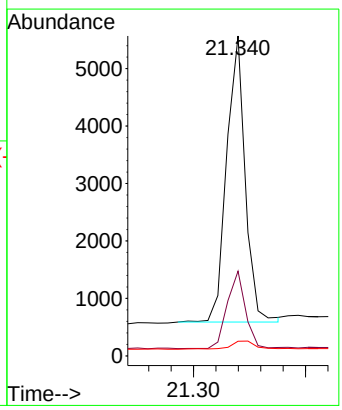


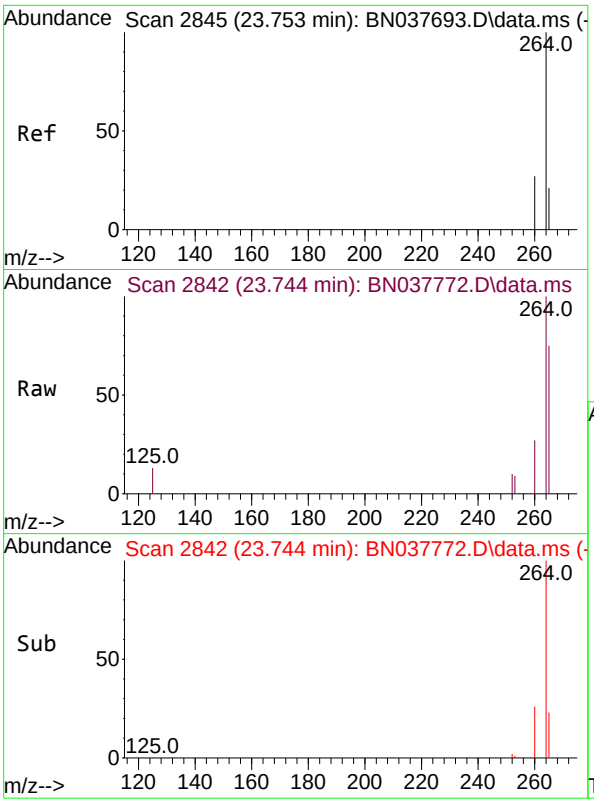


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.500 ng
RT: 21.340 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:149 Resp: 5730

Ion	Ratio	Lower	Upper
149	100		
167	26.9	20.8	31.2
279	4.0	3.3	4.9



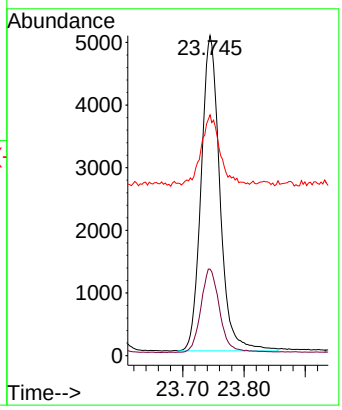


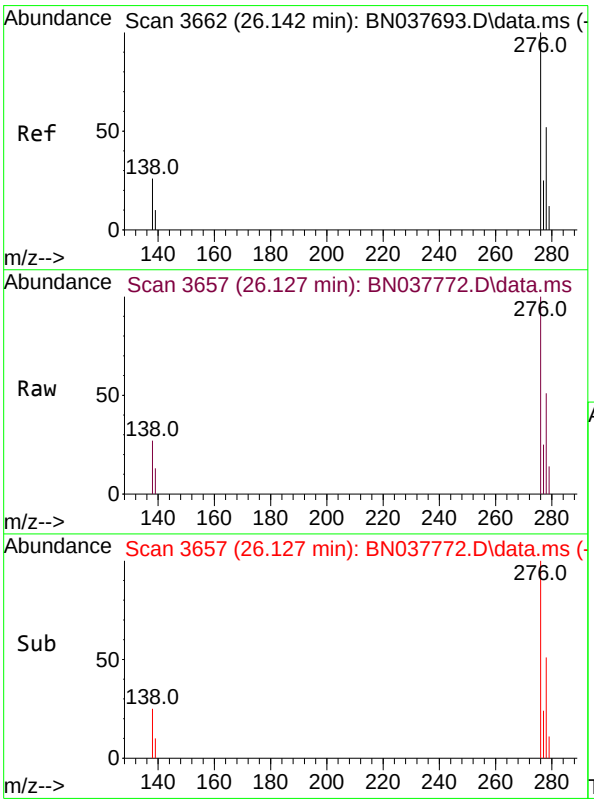
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:264 Resp: 10712

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.8	32.8
265	75.2	39.4	59.2#

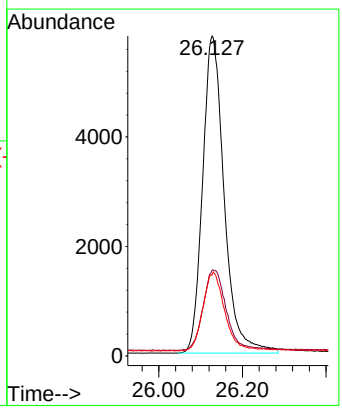


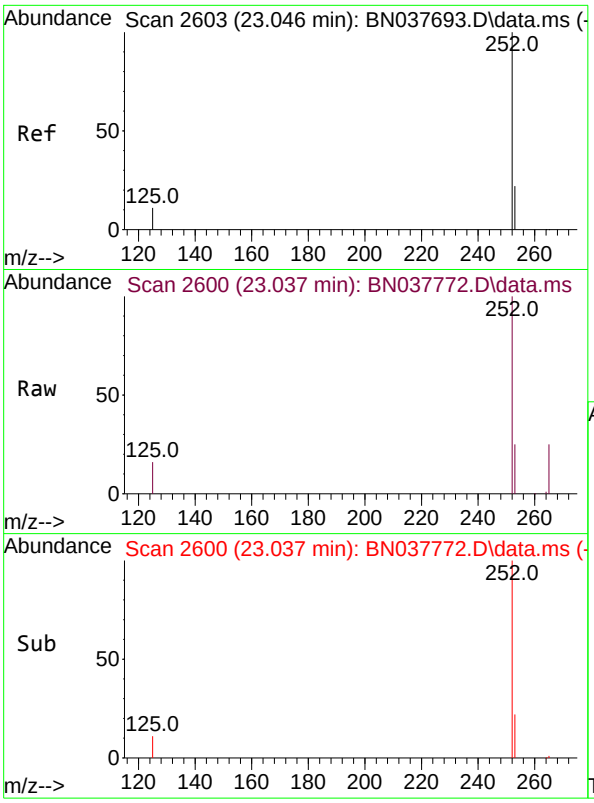


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.462 ng
RT: 26.127 min Scan# 3657
Delta R.T. -0.015 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:276 Resp: 20796

Ion	Ratio	Lower	Upper
276	100		
138	26.7	21.9	32.9
277	24.7	20.1	30.1



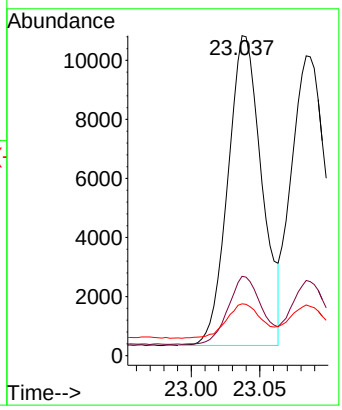


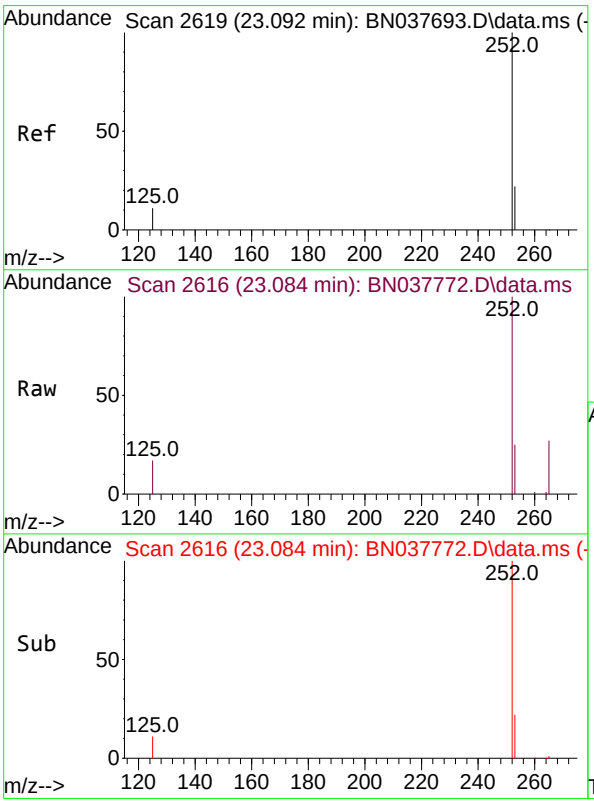
#37
Benzo(b)fluoranthene
Concen: 0.428 ng
RT: 23.037 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:252 Resp: 18047

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.4	29.2
125	16.2	11.2	16.8

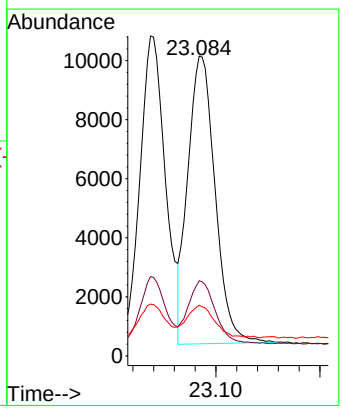


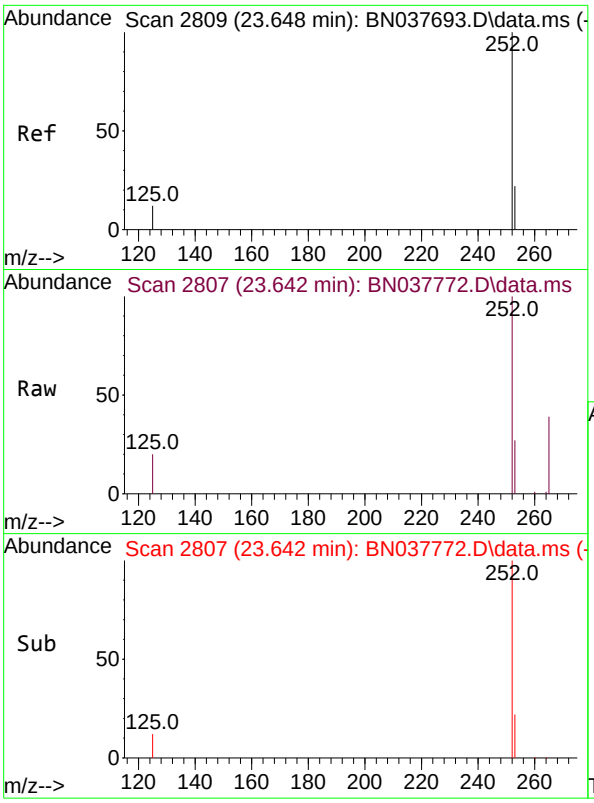


#38
Benzo(k)fluoranthene
Concen: 0.413 ng
RT: 23.084 min Scan# 2616
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:252 Resp: 17770

Ion	Ratio	Lower	Upper
252	100		
253	25.1	19.4	29.0
125	16.9	11.6	17.4



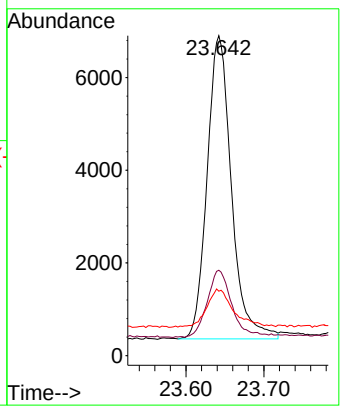


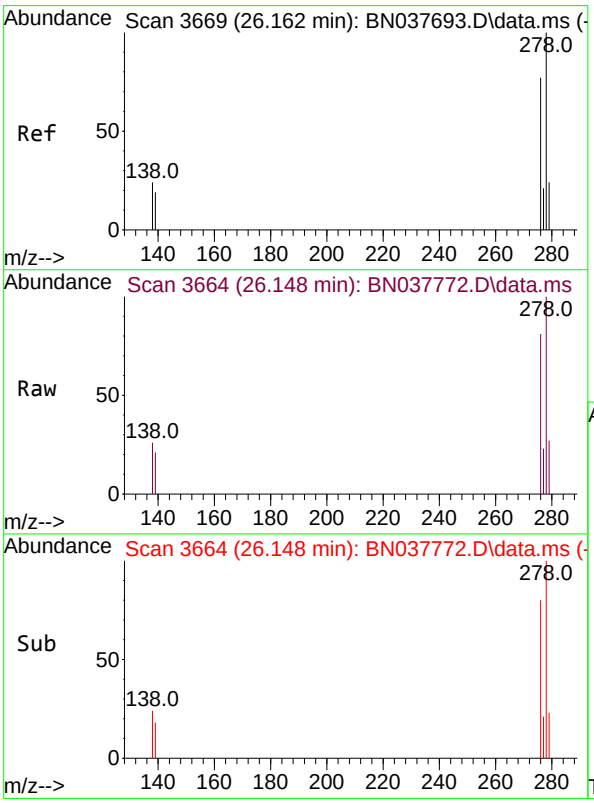
#39
Benzo(a)pyrene
Concen: 0.420 ng
RT: 23.642 min Scan# 28
Delta R.T. -0.006 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:252 Resp: 14195

Ion	Ratio	Lower	Upper
252	100		
253	26.7	20.8	31.2
125	20.1	13.9	20.9

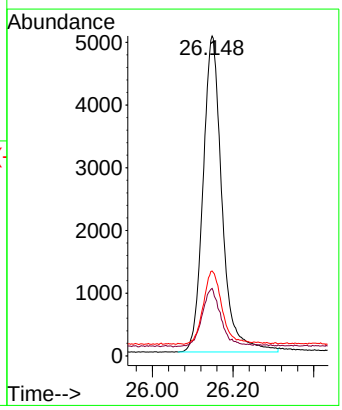


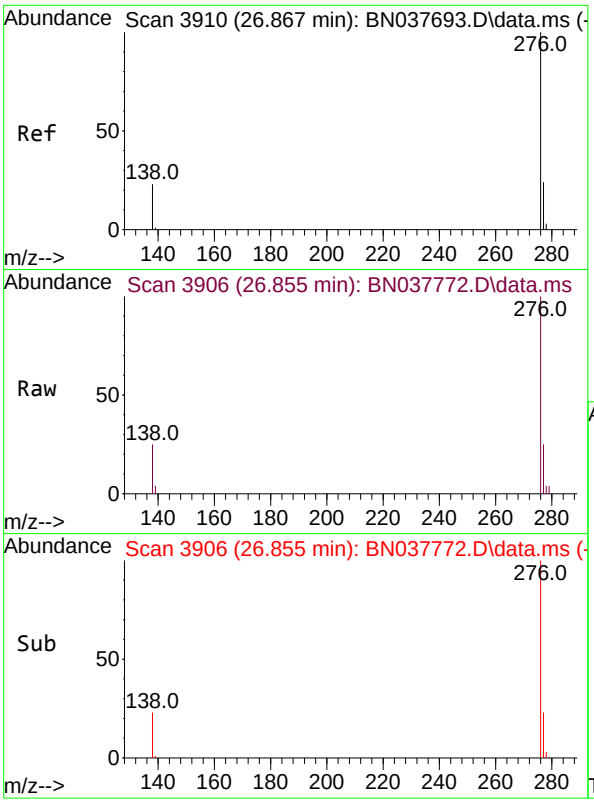


#40
Dibenzo(a,h)anthracene
Concen: 0.458 ng
RT: 26.148 min Scan# 3664
Delta R.T. -0.015 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:278 Resp: 16460

Ion	Ratio	Lower	Upper
278	100		
139	21.1	17.8	26.6
279	26.5	22.0	33.0



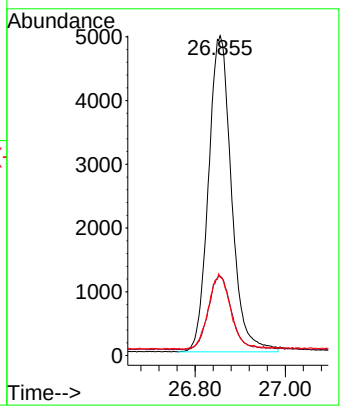


#41
Benzo(g,h,i)perylene
Concen: 0.435 ng
RT: 26.855 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:276 Resp: 17542

Ion	Ratio	Lower	Upper
276	100		
277	24.8	20.6	31.0
138	24.5	20.2	30.2



Raw Data: **BN037773.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911MSD	SDG No.:	Q3097
Lab Sample ID:	Q3097-03MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037773.D	1	09/15/25 12:00	09/18/25 12:25	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.73		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		76%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7160	7.833				
1146-65-2	Naphthalene-d8	19100	10.637				
15067-26-2	Acenaphthene-d10	8490	14.484				
1517-22-2	Phenanthrene-d10	14200	17.235				
1719-03-5	Chrysene-d12	12000	21.411				
1520-96-3	Perylene-d12	11700	23.747				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037773.D
Acq On : 18 Sep 2025 12:25
Operator : RC/JU
Sample : Q3097-03MSD
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Quant Time: Sep 18 12:59:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

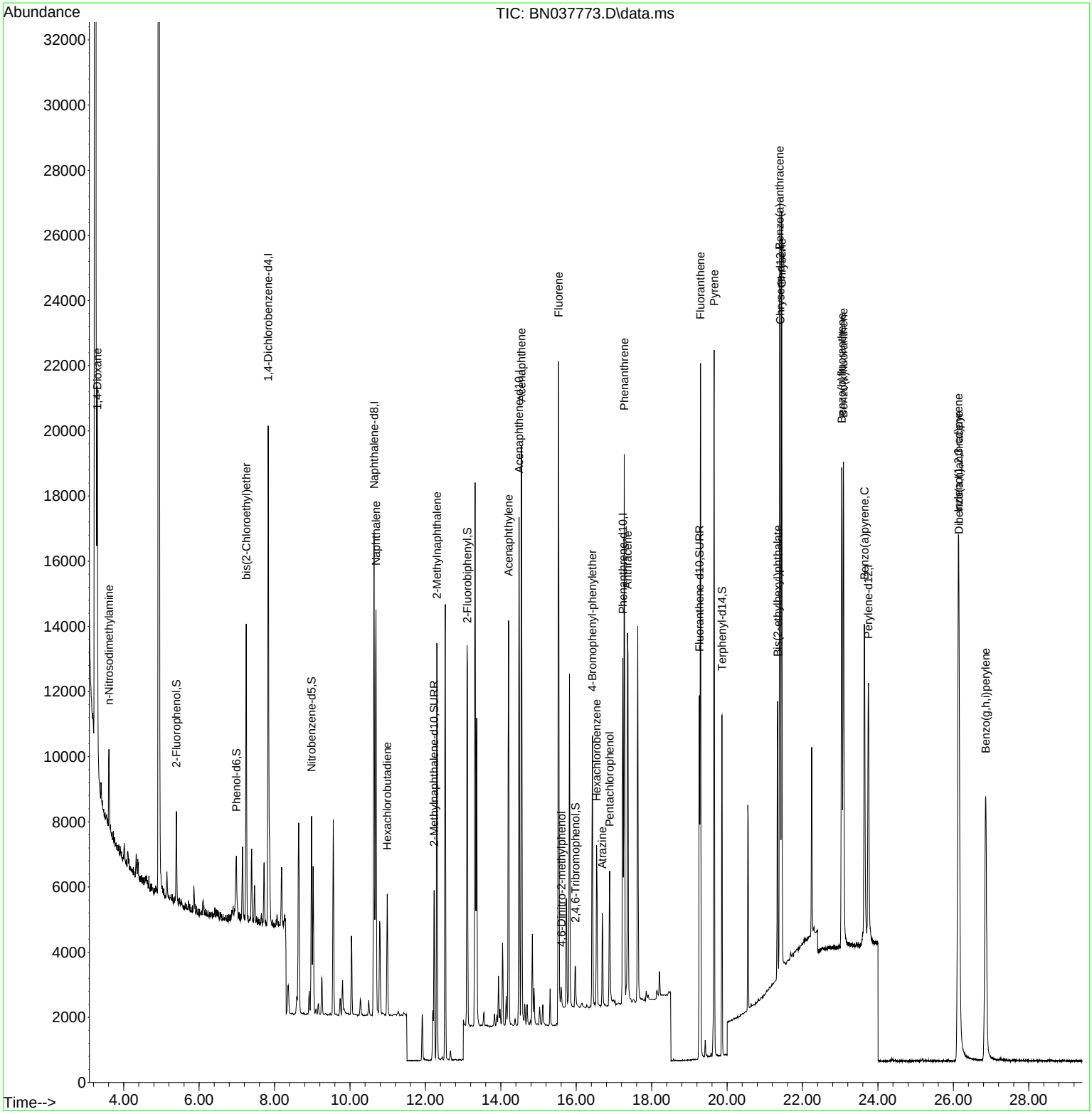
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7159	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19099	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8494	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	14218	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11982	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	11726	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2162	0.132	ng	0.00
5) Phenol-d6	6.988	99	1603	0.075	ng	0.00
8) Nitrobenzene-d5	8.982	82	4572	0.327	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	7086	0.280	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	876	0.395	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	10884	0.306	ng	0.00
27) Fluoranthene-d10	19.266	212	12926	0.362	ng	0.00
31) Terphenyl-d14	19.866	244	9877	0.406	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	5455	0.732	ng	# 93
3) n-Nitrosodimethylamine	3.608	42	1372	0.141	ng	# 93
6) bis(2-Chloroethyl)ether	7.248	93	6329	0.332	ng	100
9) Naphthalene	10.690	128	16829	0.322	ng	99
10) Hexachlorobutadiene	10.989	225	2887	0.306	ng	# 98
12) 2-Methylnaphthalene	12.303	142	9108	0.282	ng	100
16) Acenaphthylene	14.206	152	13370	0.343	ng	99
17) Acenaphthene	14.548	154	8415	0.319	ng	99
18) Fluorene	15.535	166	10028	0.314	ng	100
20) 4,6-Dinitro-2-methylph...	15.609	198	468	0.355	ng	94
21) 4-Bromophenyl-phenylether	16.429	248	3385	0.365	ng	# 87
22) Hexachlorobenzene	16.540	284	3993	0.374	ng	98
23) Atrazine	16.689	200	2440	0.414	ng	# 90
24) Pentachlorophenol	16.888	266	2303	0.744	ng	97
25) Phenanthrene	17.273	178	16893	0.377	ng	99
26) Anthracene	17.359	178	14220	0.359	ng	99
28) Fluoranthene	19.294	202	18446	0.376	ng	99
30) Pyrene	19.657	202	18763	0.400	ng	100
32) Benzo(a)anthracene	21.393	228	17097	0.409	ng	99
33) Chrysene	21.447	228	18729	0.418	ng	98
34) Bis(2-ethylhexyl)phtha...	21.339	149	5916	0.477	ng	99
36) Indeno(1,2,3-cd)pyrene	26.130	276	22920	0.465	ng	99
37) Benzo(b)fluoranthene	23.040	252	19407	0.420	ng	98
38) Benzo(k)fluoranthene	23.086	252	19956	0.424	ng	98
39) Benzo(a)pyrene	23.642	252	15734	0.426	ng	98
40) Dibenzo(a,h)anthracene	26.148	278	17896	0.455	ng	97
41) Benzo(g,h,i)perylene	26.855	276	19134	0.433	ng	98

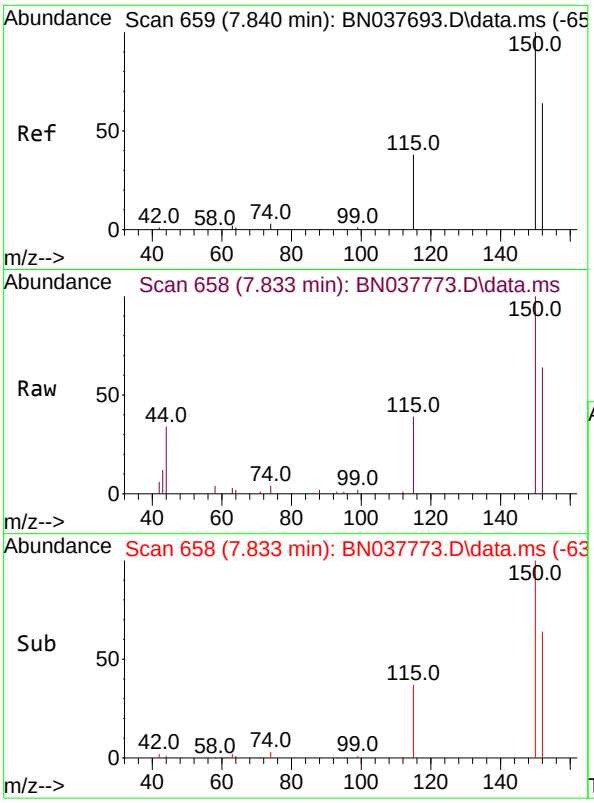
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037773.D
Acq On : 18 Sep 2025 12:25
Operator : RC/JU
Sample : Q3097-03MSD
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Quant Time: Sep 18 12:59:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



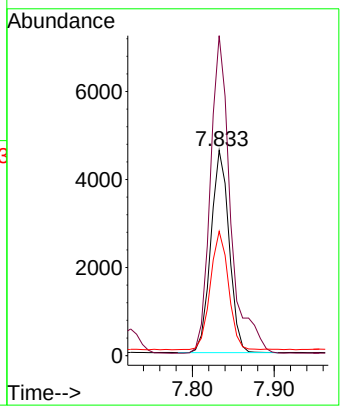


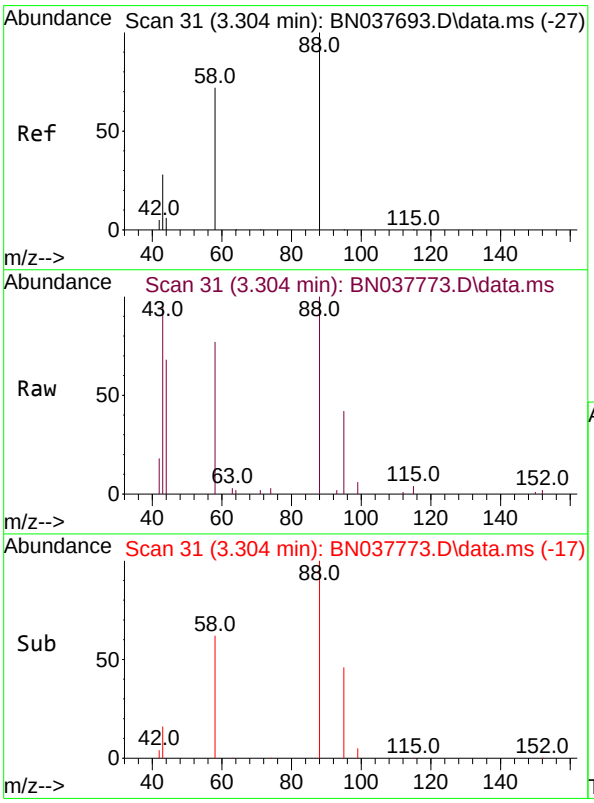
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:152 Resp: 7159

Ion	Ratio	Lower	Upper
152	100		
150	155.9	124.5	186.7
115	60.5	49.2	73.8

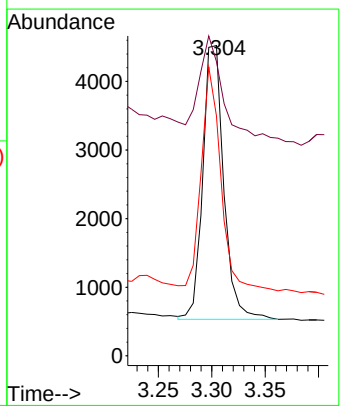


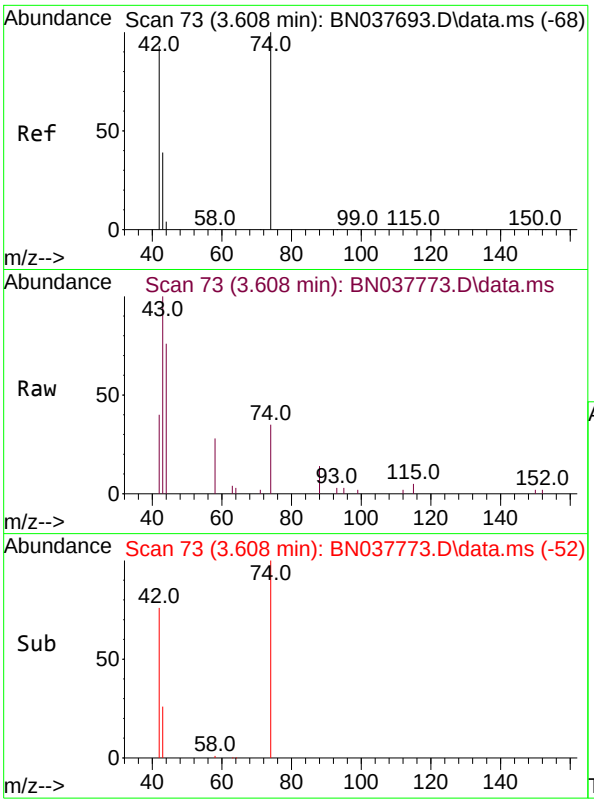


#2
1,4-Dioxane
Concen: 0.732 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion: 88 Resp: 5455

Ion	Ratio	Lower	Upper
88	100		
43	45.0	26.8	40.2#
58	76.7	61.9	92.9



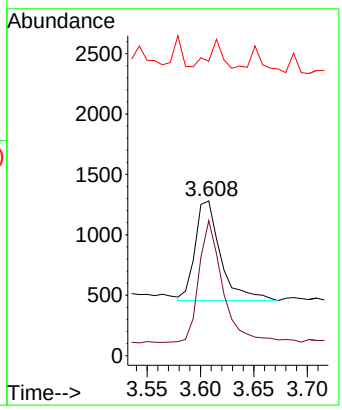


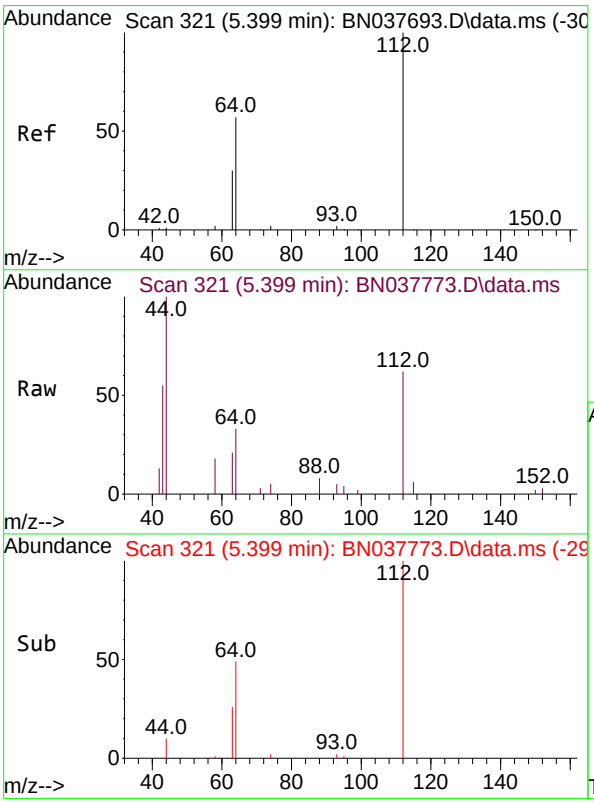
#3
n-Nitrosodimethylamine
Concen: 0.141 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 42 Resp: 1372

Ion	Ratio	Lower	Upper
42	100		
74	114.1	86.0	129.0
44	15.3	8.4	12.6#

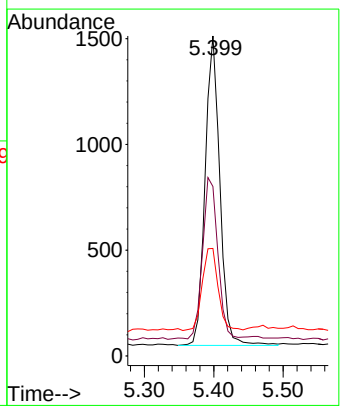


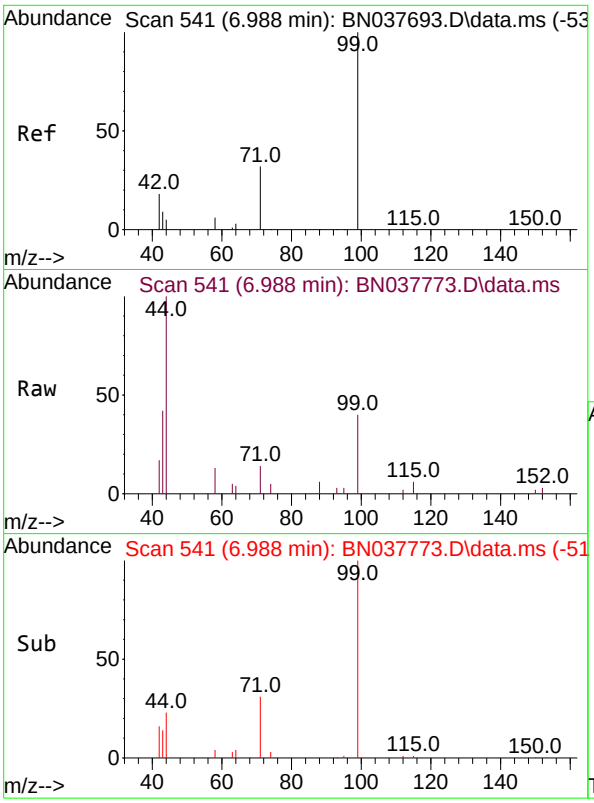


#4
2-Fluorophenol
Concen: 0.132 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:112 Resp: 2162

Ion	Ratio	Lower	Upper
112	100		
64	54.6	44.9	67.3
63	28.6	24.7	37.1



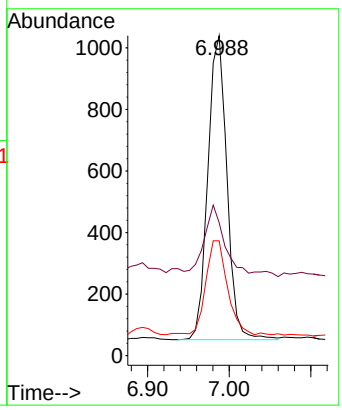


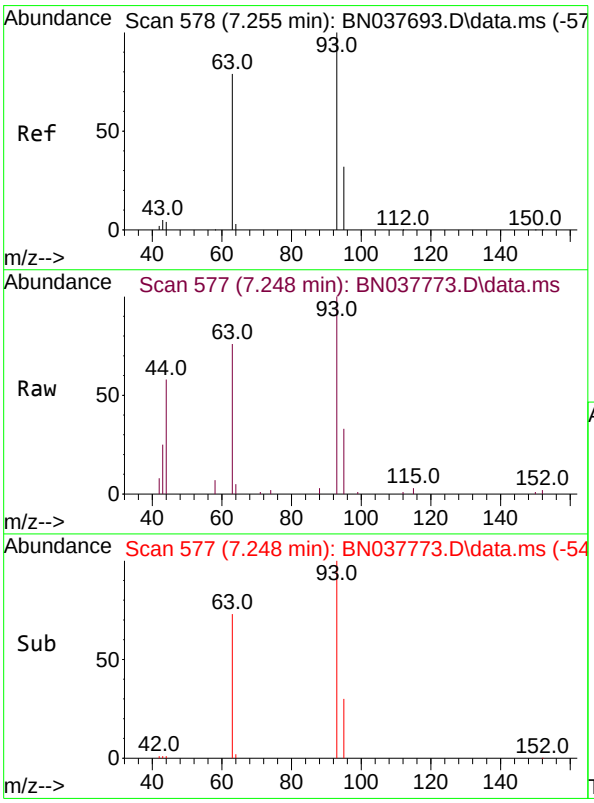
#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 99 Resp: 1603

Ion	Ratio	Lower	Upper
99	100		
42	22.1	16.6	24.8
71	36.1	26.7	40.1

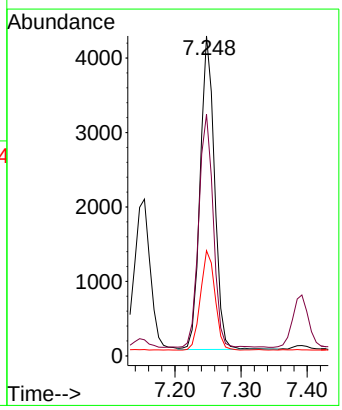


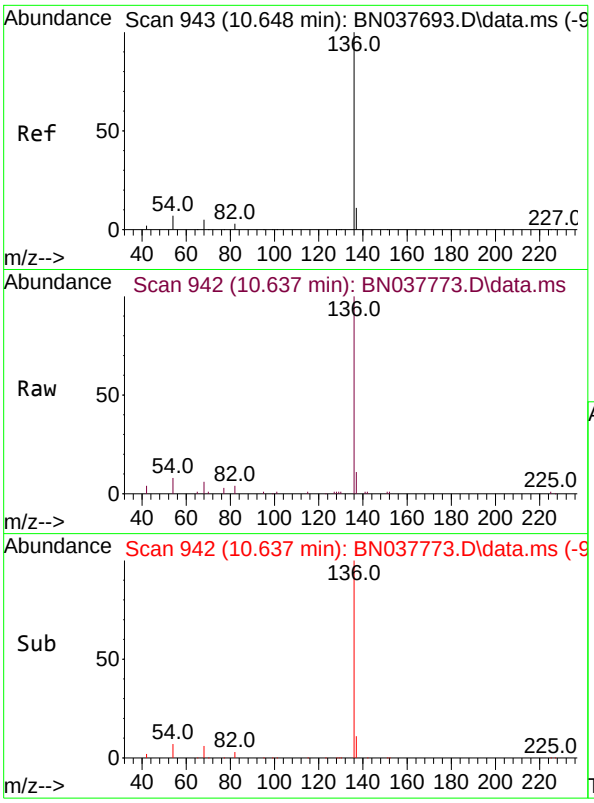


#6
bis(2-Chloroethyl)ether
Concen: 0.332 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion: 93 Resp: 6329

Ion	Ratio	Lower	Upper
93	100		
63	75.4	60.6	90.8
95	32.2	26.0	39.0



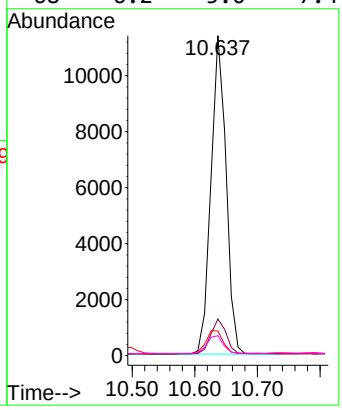


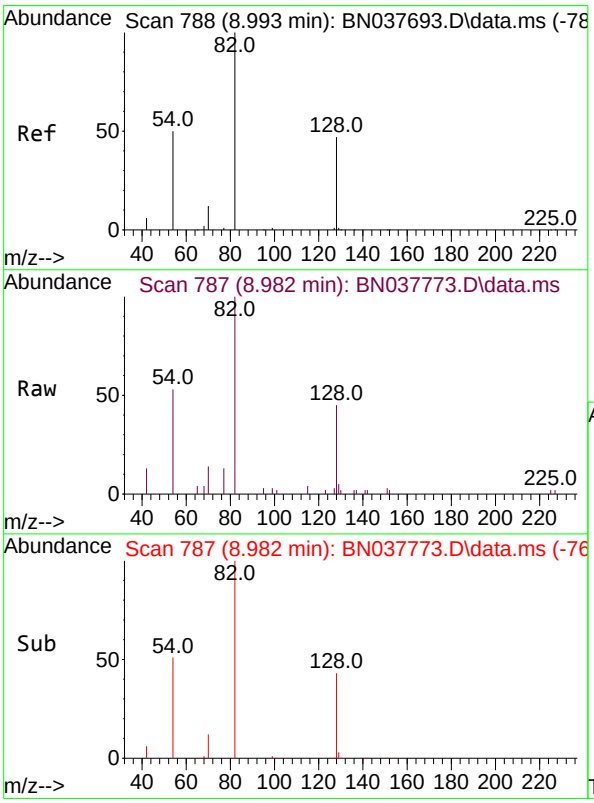
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:136 Resp: 19099

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.7	6.3	9.5
68	6.2	5.0	7.4

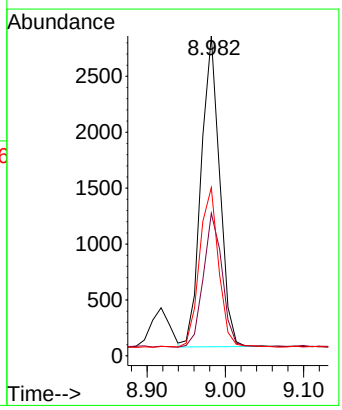


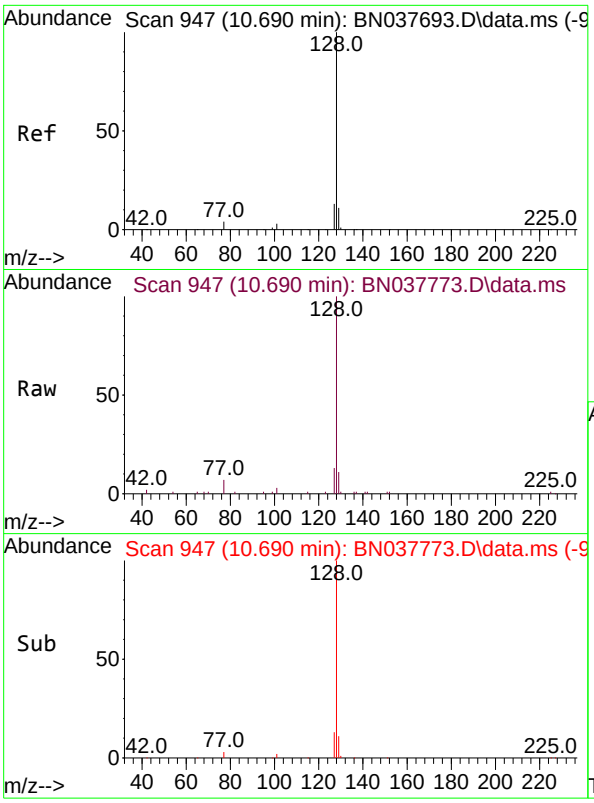


#8
Nitrobenzene-d5
Concen: 0.327 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion: 82 Resp: 4572

Ion	Ratio	Lower	Upper
82	100		
128	44.6	38.3	57.5
54	52.6	41.4	62.2



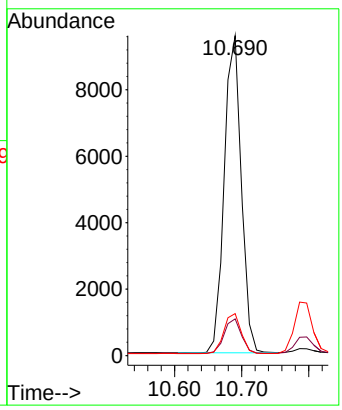


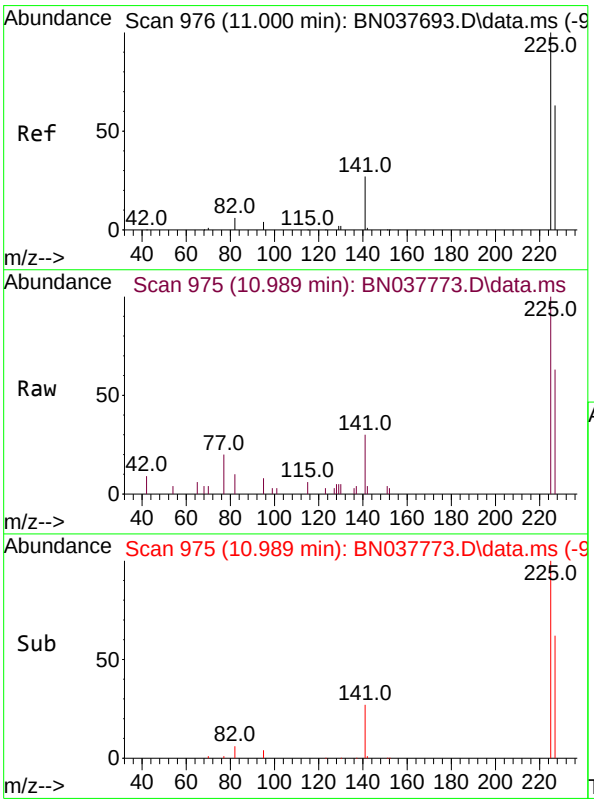
#9
Naphthalene
Concen: 0.322 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:128 Resp: 16829

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.1	13.7
127	13.1	10.9	16.3

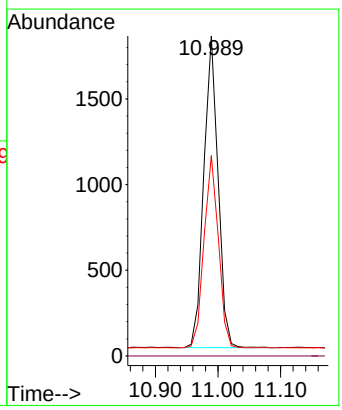


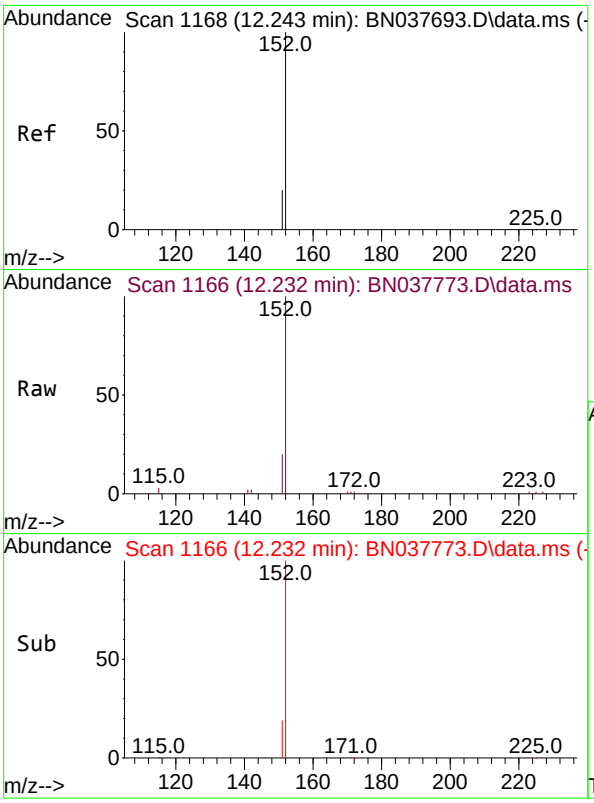


#10
Hexachlorobutadiene
Concen: 0.306 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:225 Resp: 2887

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.2	50.9	76.3



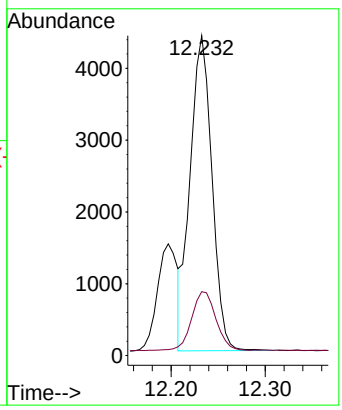


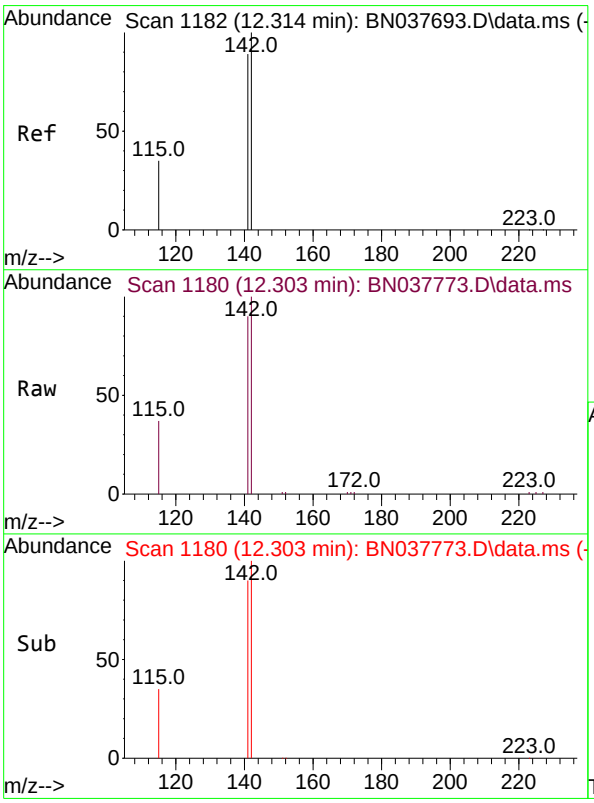
#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:152 Resp: 7086

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.0	25.6

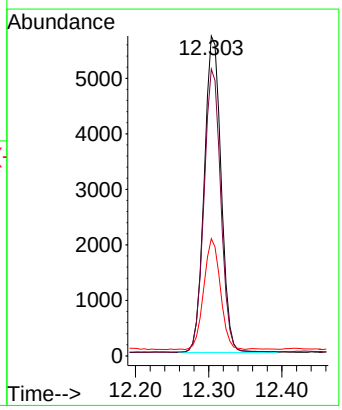


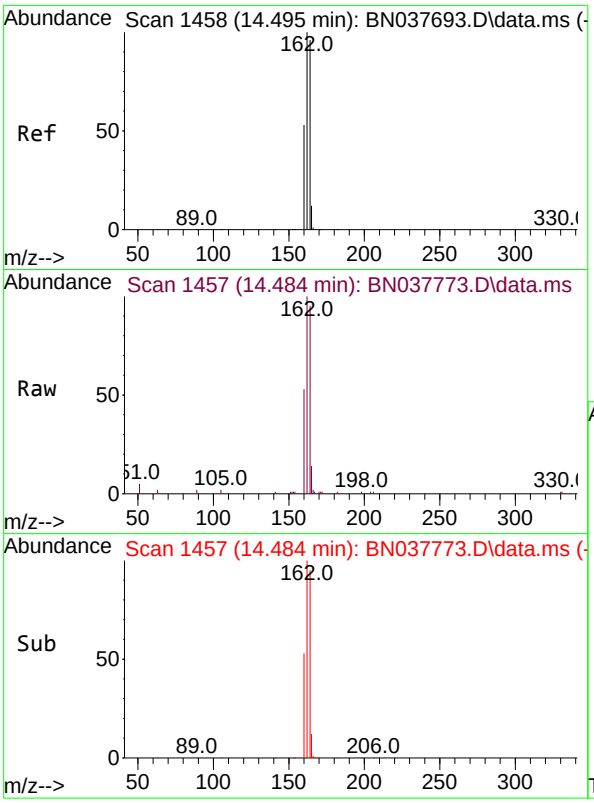


#12
2-Methylnaphthalene
Concen: 0.282 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:142 Resp: 9108

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.6	107.4
115	36.6	28.6	43.0



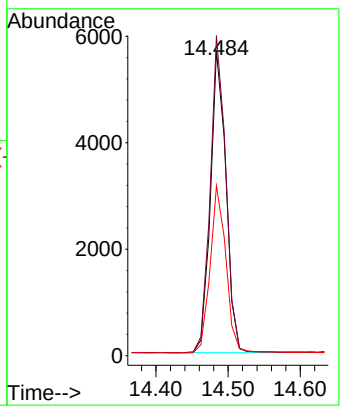


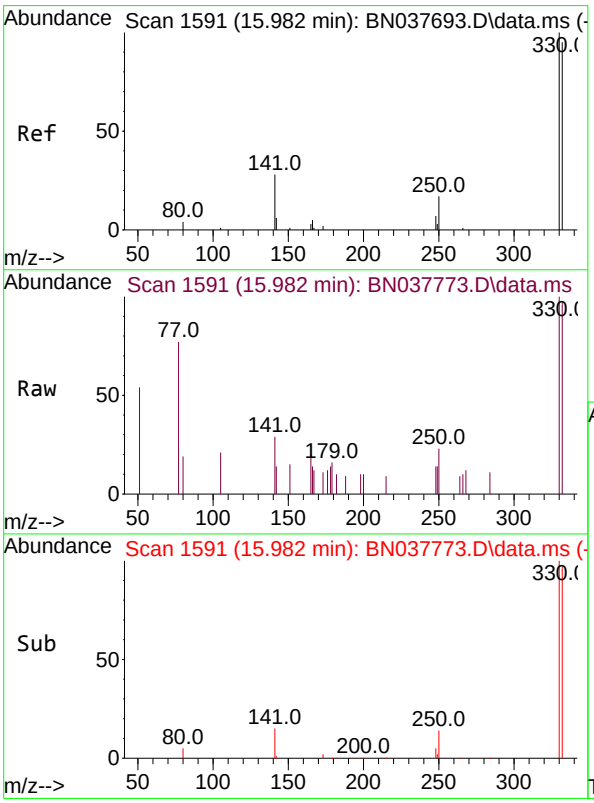
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:164 Resp: 8494

Ion	Ratio	Lower	Upper
164	100		
162	105.0	83.1	124.7
160	55.7	44.3	66.5

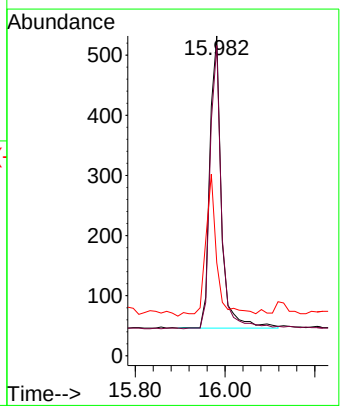


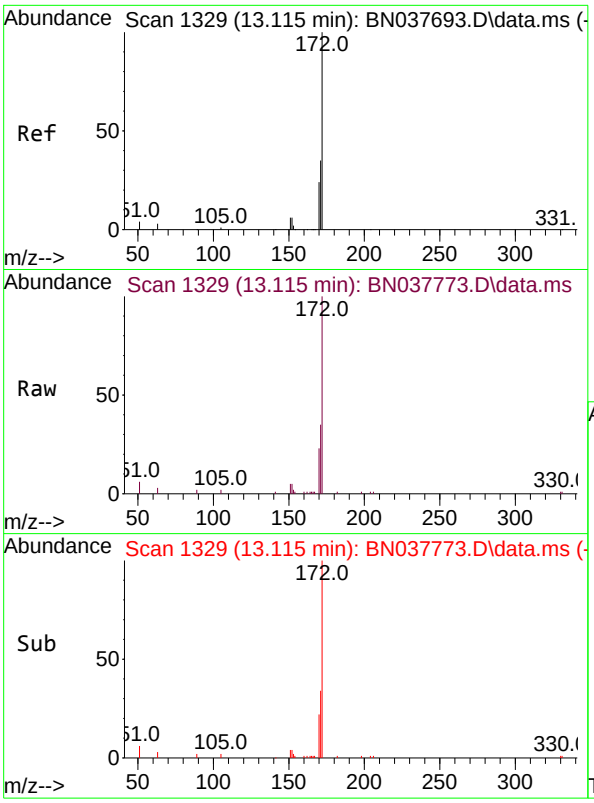


#14
2,4,6-Tribromophenol
Concen: 0.395 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:330 Resp: 876

Ion	Ratio	Lower	Upper
330	100		
332	95.3	75.3	112.9
141	47.4	35.0	52.4



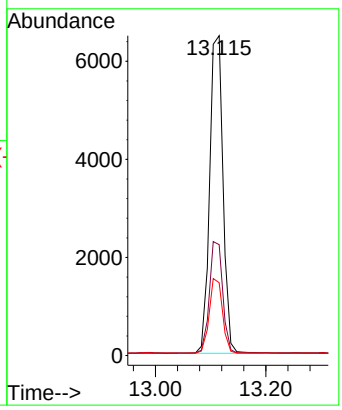


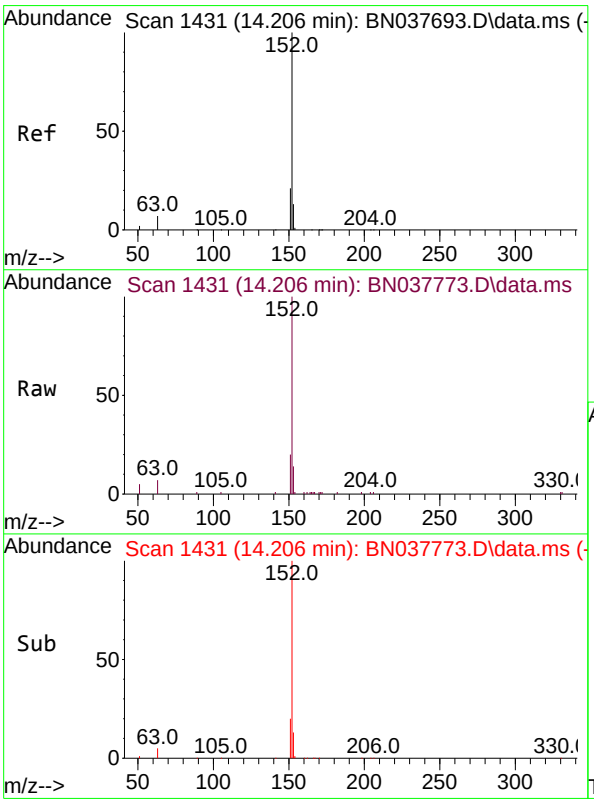
#15
2-Fluorobiphenyl
Concen: 0.306 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:172 Resp: 10884

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	43.0
170	22.8	19.8	29.8

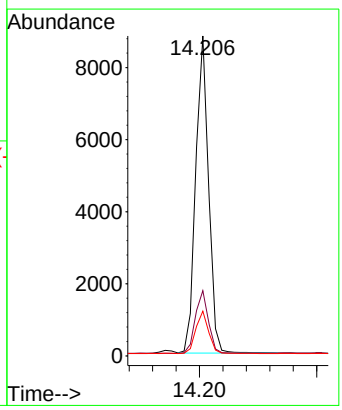


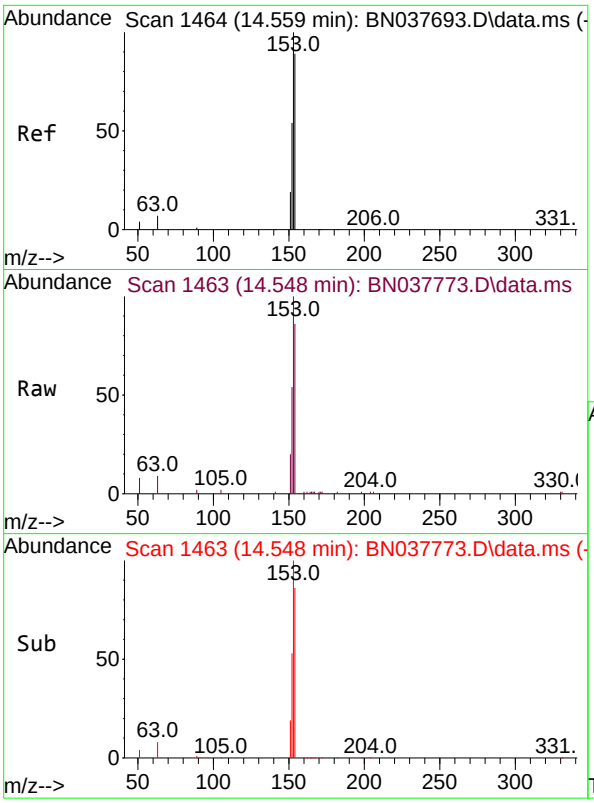


#16
Acenaphthylene
Concen: 0.343 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:152 Resp: 13370

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	13.3	10.4	15.6



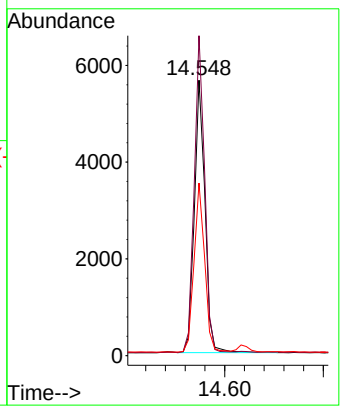


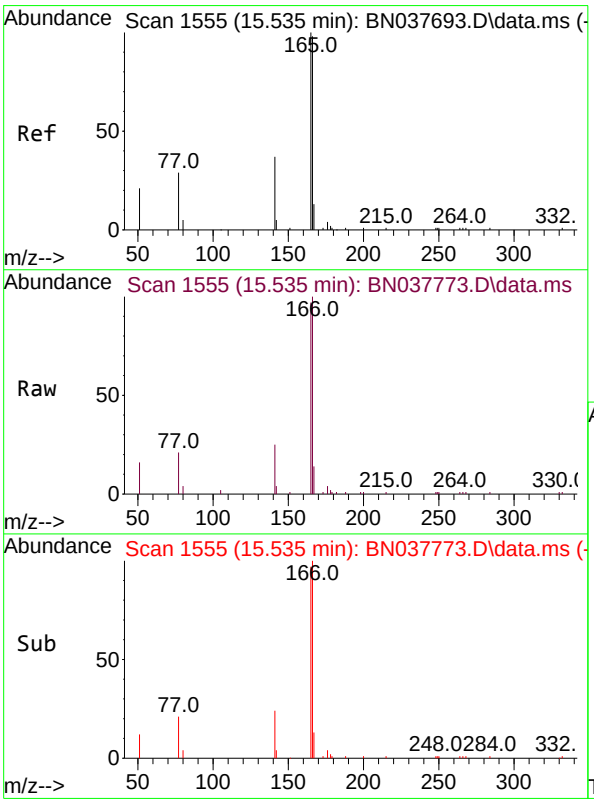
#17
Acenaphthene
Concen: 0.319 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:154 Resp: 8415

Ion	Ratio	Lower	Upper
154	100		
153	114.0	89.8	134.8
152	62.0	50.2	75.2

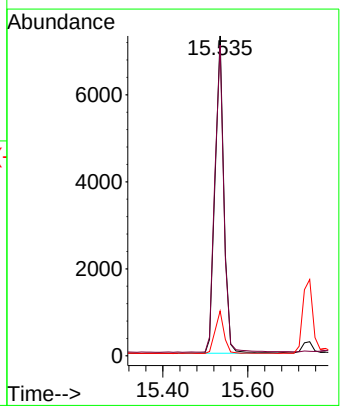


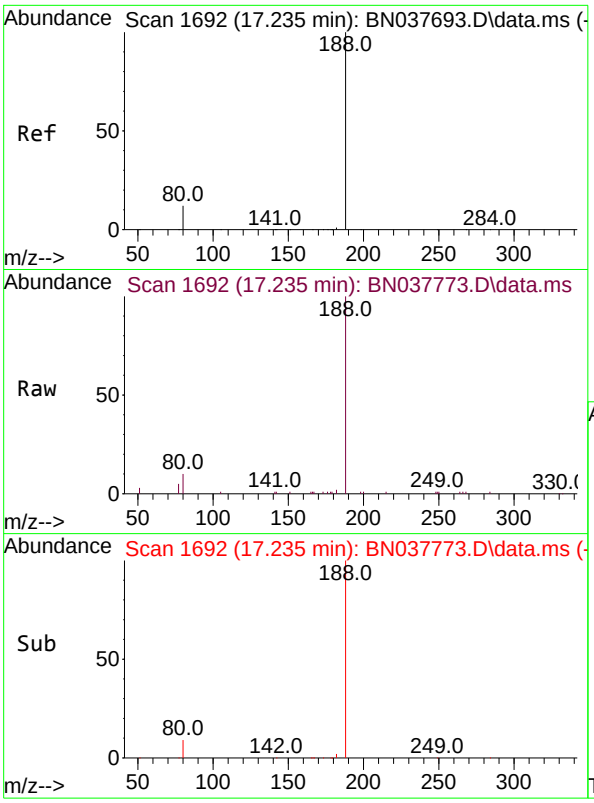


#18
Fluorene
Concen: 0.314 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:166 Resp: 10028

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.6	119.4
167	14.0	10.6	16.0



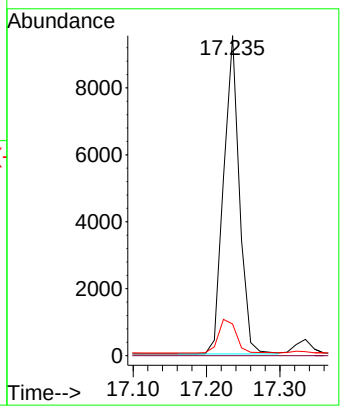


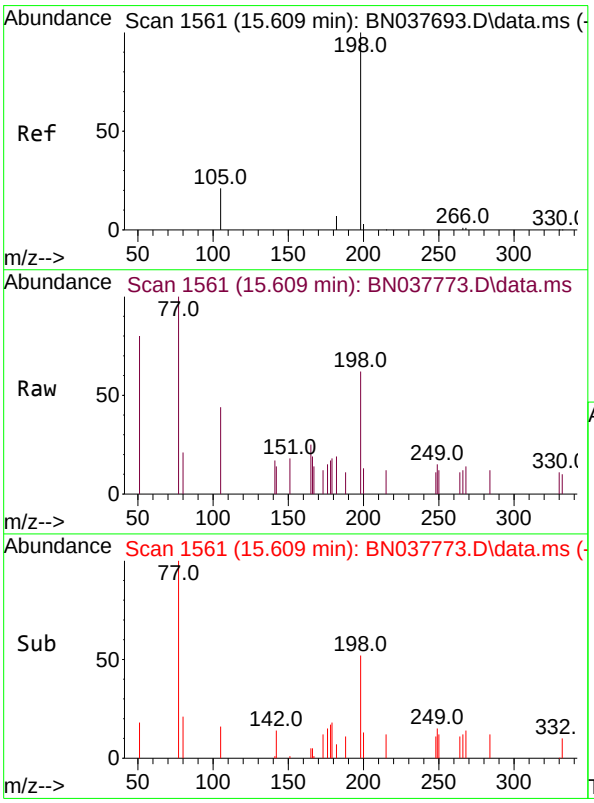
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:188 Resp: 14218

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.9	10.6	15.8#

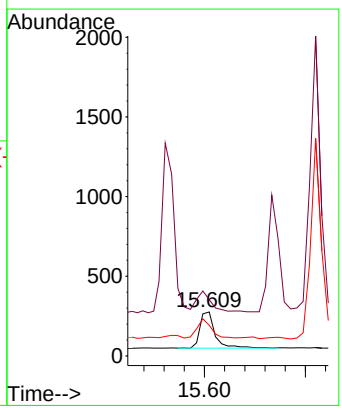


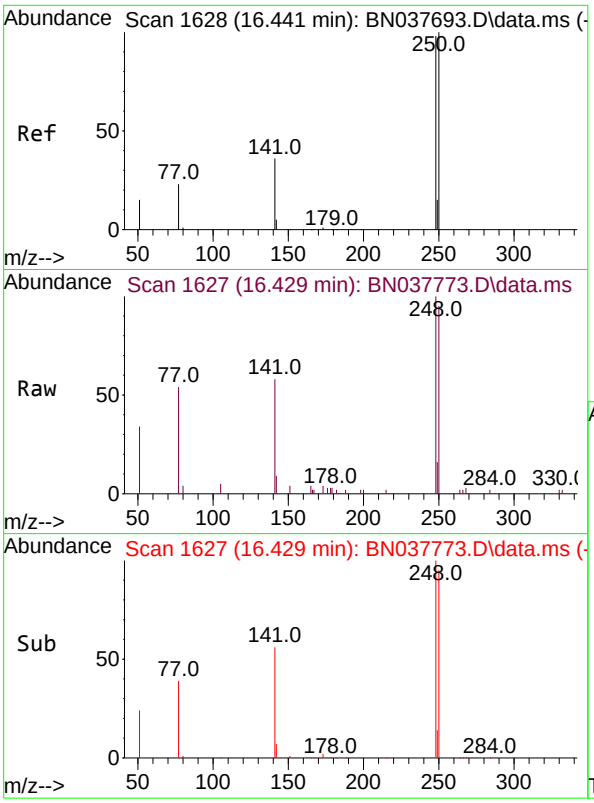


#20
4,6-Dinitro-2-methylphenol
Concen: 0.355 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:198 Resp: 468

Ion	Ratio	Lower	Upper
198	100		
51	127.9	95.1	142.7
105	69.9	53.8	80.6



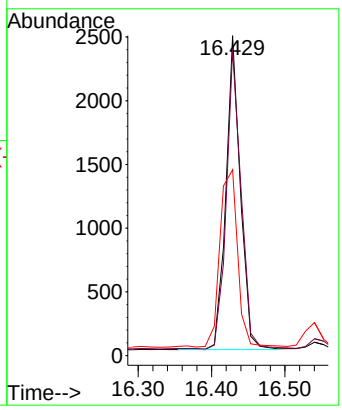


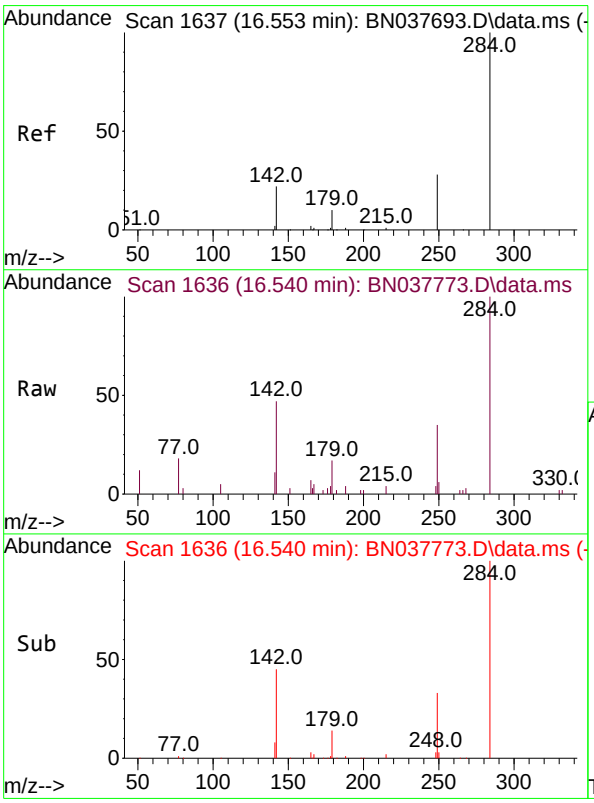
#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:248 Resp: 3385

Ion	Ratio	Lower	Upper
248	100		
250	95.5	81.5	122.3
141	58.1	30.8	46.2#

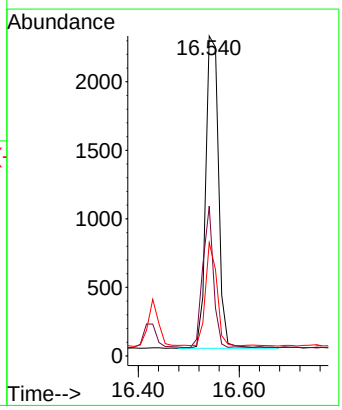


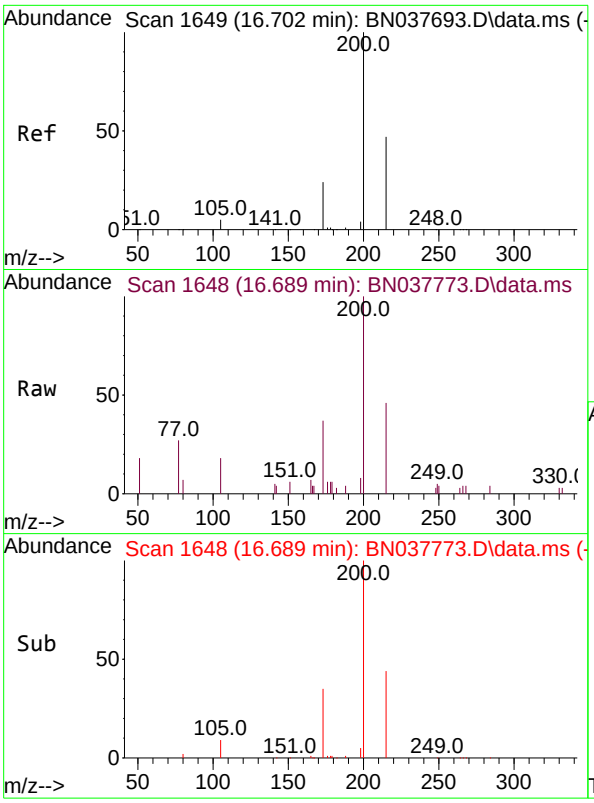


#22
Hexachlorobenzene
Concen: 0.374 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:284 Resp: 3993

Ion	Ratio	Lower	Upper
284	100		
142	37.8	30.9	46.3
249	29.4	24.8	37.2



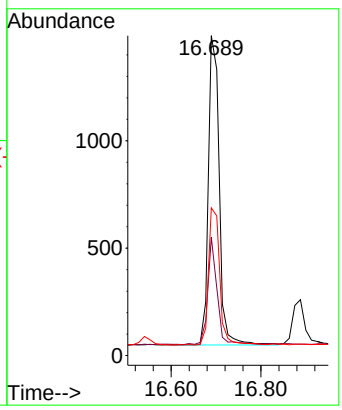


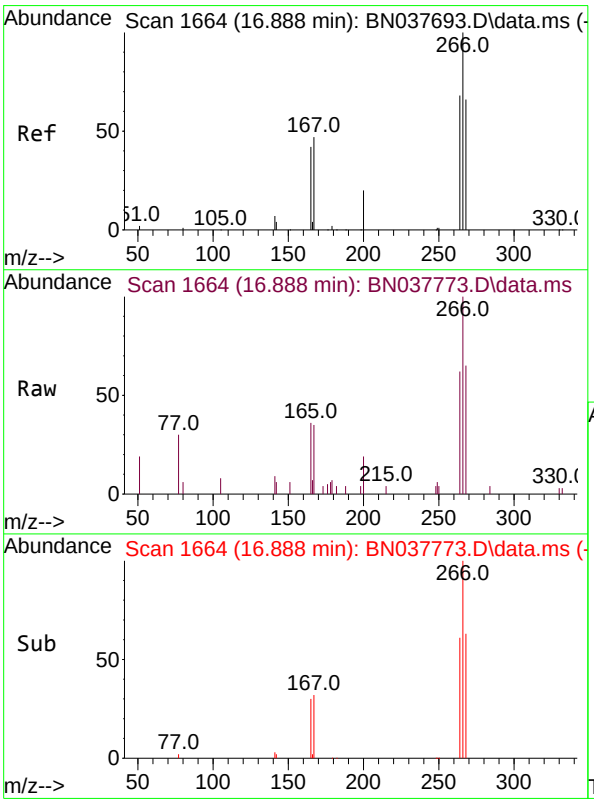
#23
Atrazine
Concen: 0.414 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:200 Resp: 2440

Ion	Ratio	Lower	Upper
200	100		
173	37.0	21.4	32.2#
215	46.2	39.2	58.8

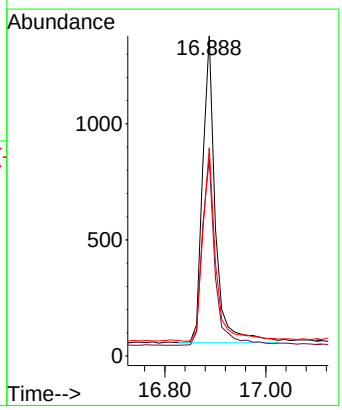


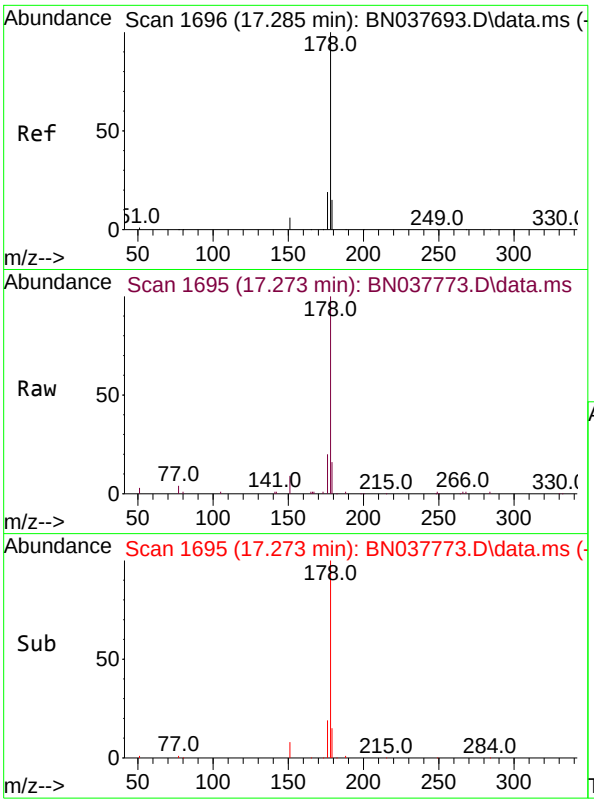


#24
Pentachlorophenol
Concen: 0.744 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:266 Resp: 2303

Ion	Ratio	Lower	Upper
266	100		
264	62.2	51.6	77.4
268	64.2	53.2	79.8



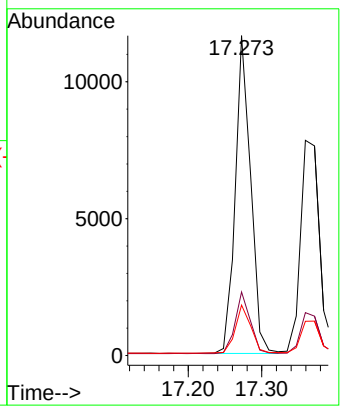


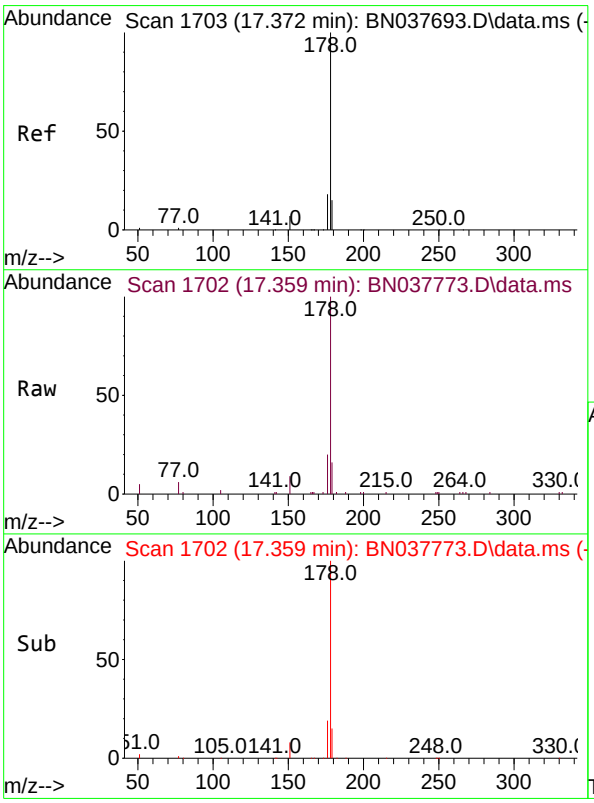
#25
Phenanthrene
Concen: 0.377 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:178 Resp: 16893

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.8	12.2	18.2

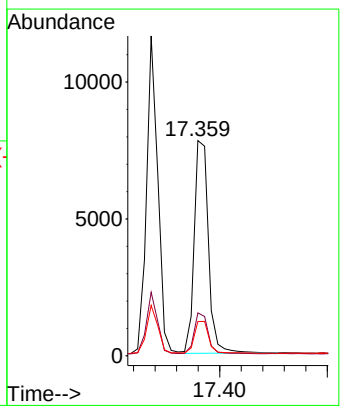


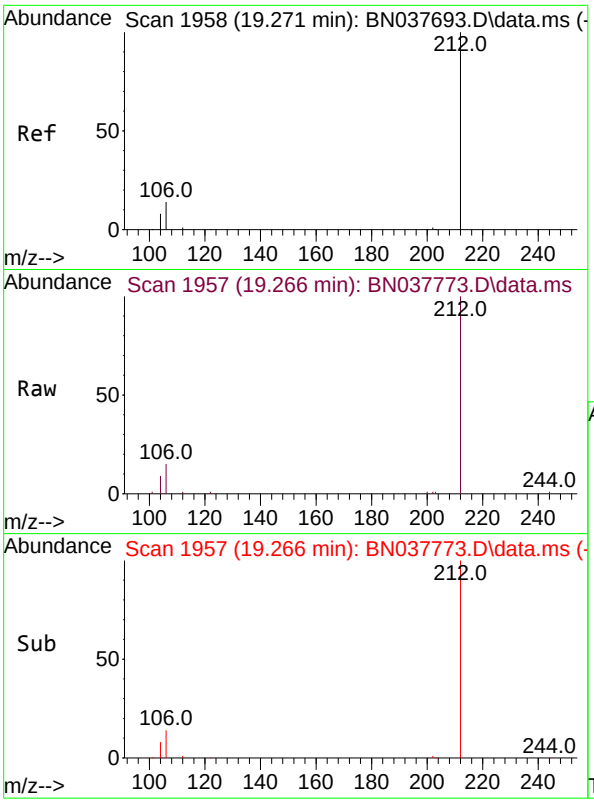


#26
Anthracene
Concen: 0.359 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:178 Resp: 14220

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	22.0
179	15.2	12.2	18.4



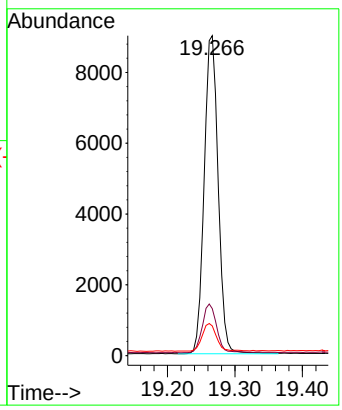


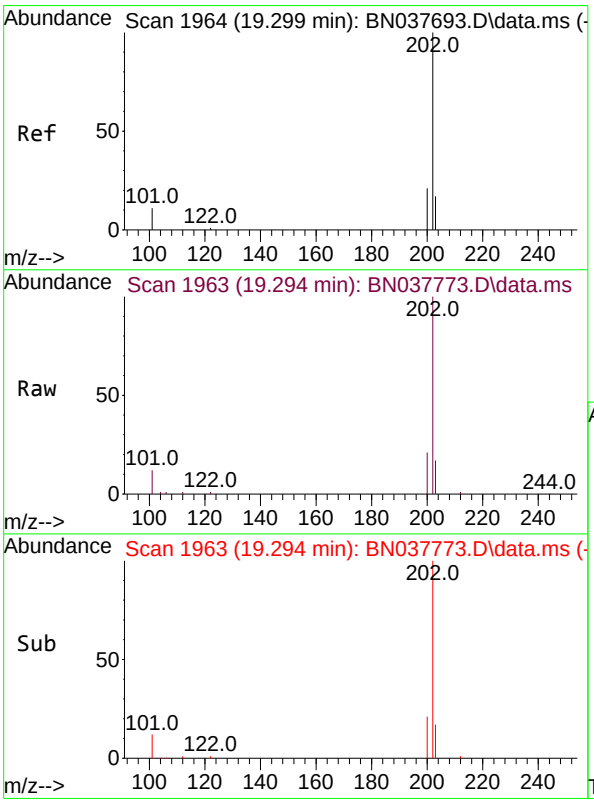
#27
Fluoranthene-d10
Concen: 0.362 ng
RT: 19.266 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:212 Resp: 12926

Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.2	18.2
104	8.7	6.9	10.3

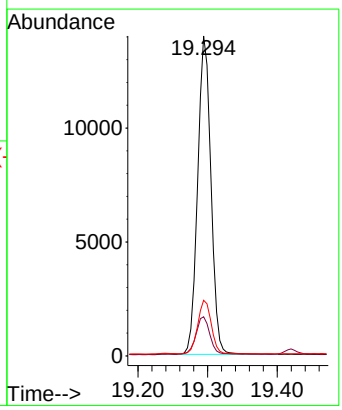


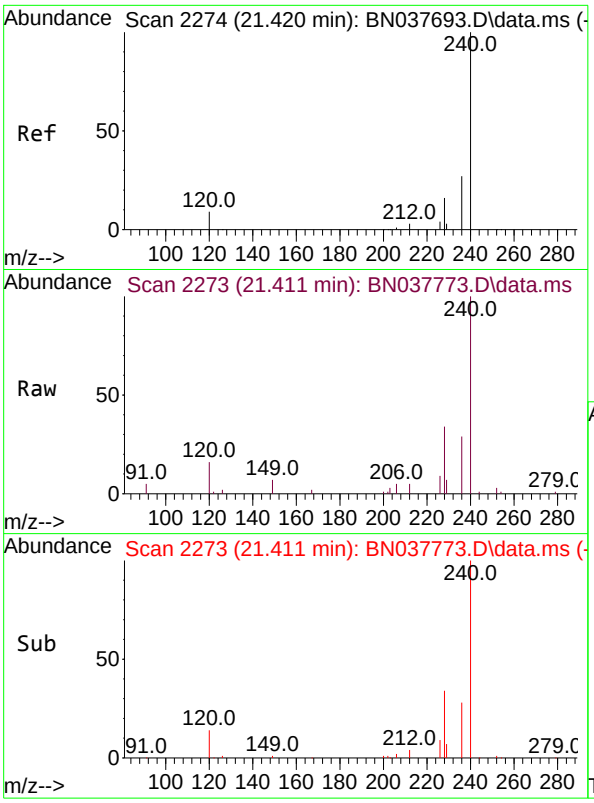


#28
Fluoranthene
Concen: 0.376 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:202 Resp: 18446

Ion	Ratio	Lower	Upper
202	100		
101	12.3	9.3	13.9
203	17.2	13.7	20.5



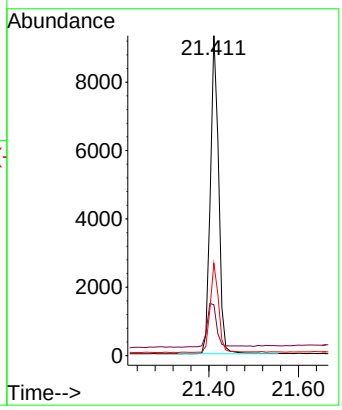


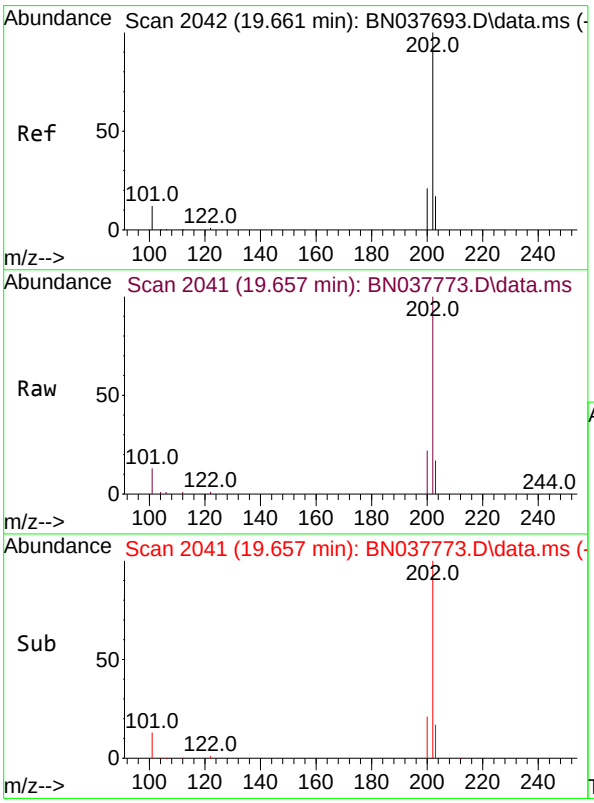
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:240 Resp: 11982

Ion	Ratio	Lower	Upper
240	100		
120	15.9	9.2	13.8#
236	28.8	22.6	33.8

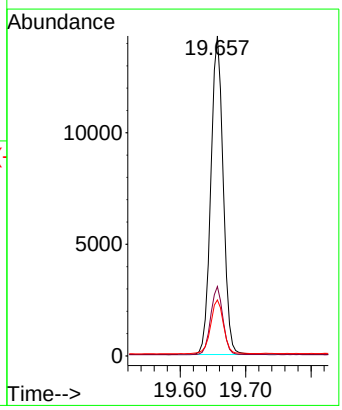


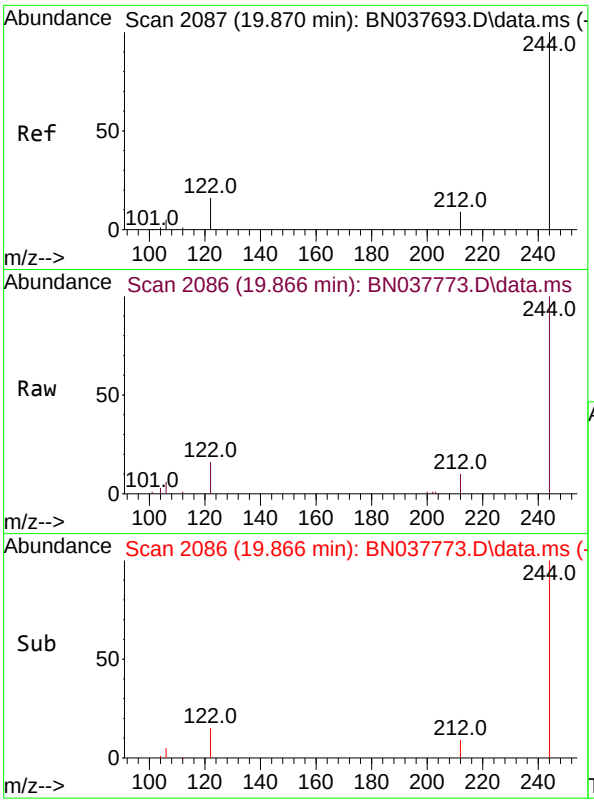


#30
Pyrene
Concen: 0.400 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:202 Resp: 18763

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.7	14.3	21.5



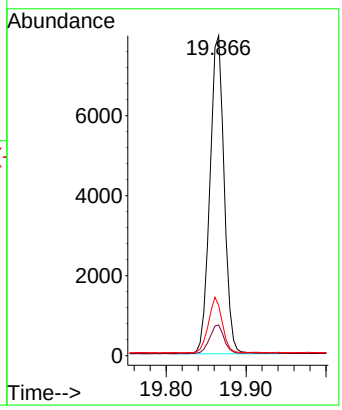


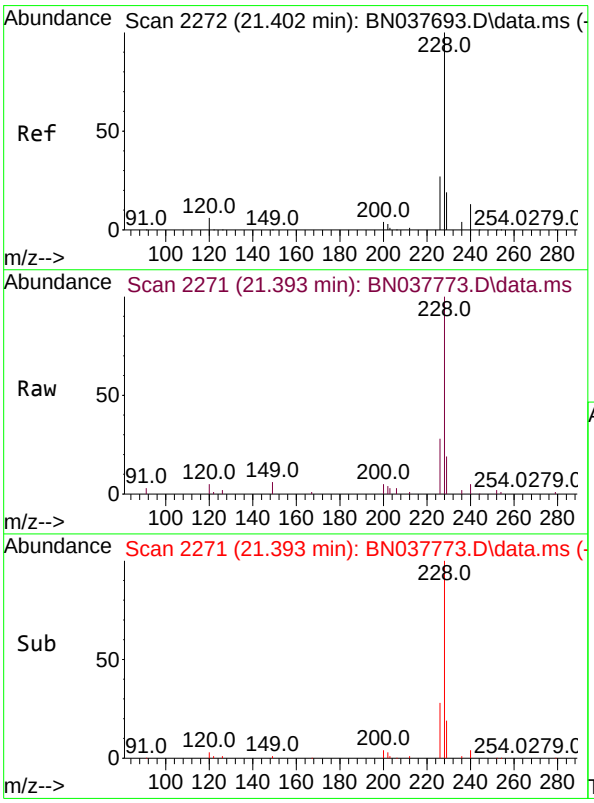
#31
Terphenyl-d14
Concen: 0.406 ng
RT: 19.866 min Scan# 20
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:244 Resp: 9877

Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.5	11.3
122	15.7	13.2	19.8

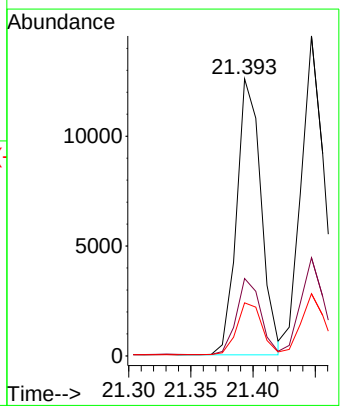


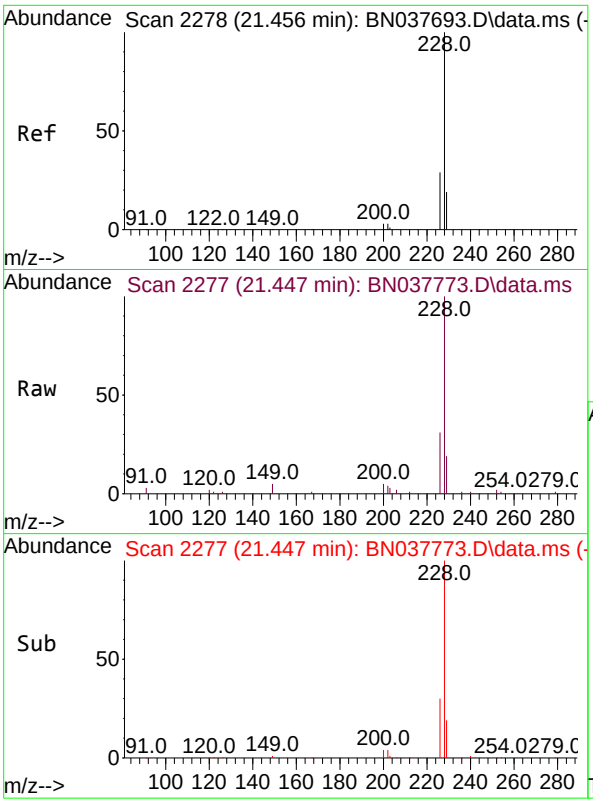


#32
Benzo(a)anthracene
Concen: 0.409 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:228 Resp: 17097

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.2
229	19.2	15.8	23.6



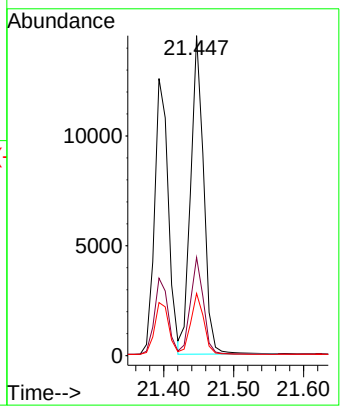


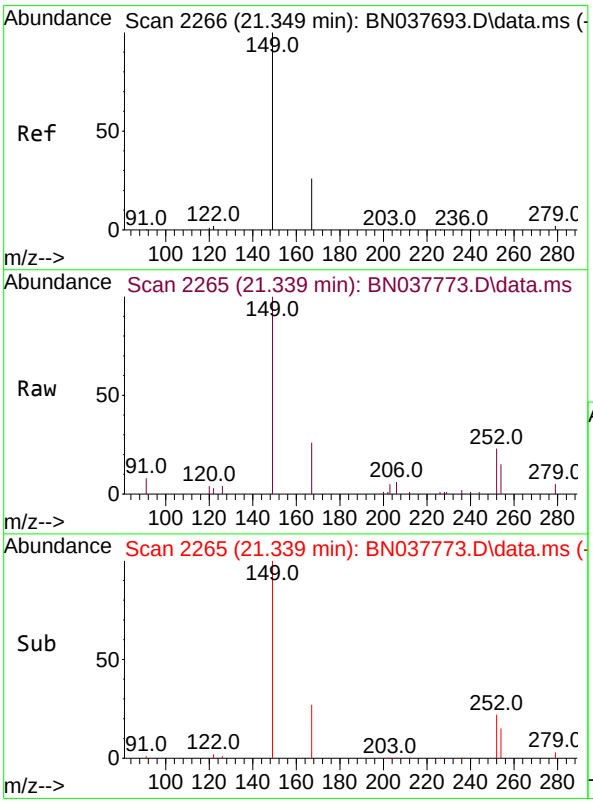
#33
Chrysene
Concen: 0.418 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:228 Resp: 18729

Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.5	35.3
229	19.4	15.9	23.9

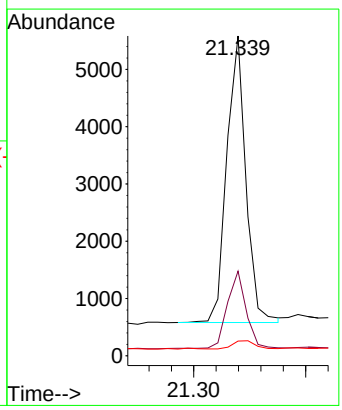


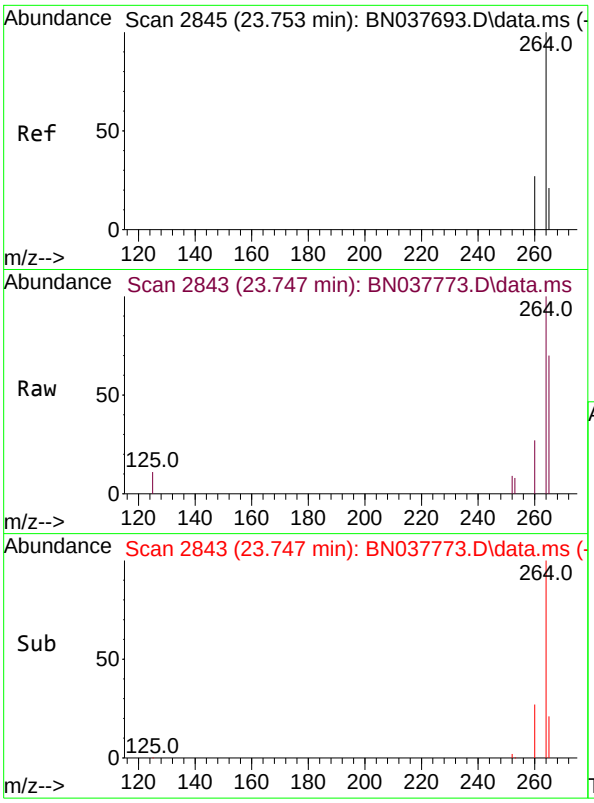


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.477 ng
RT: 21.339 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:149 Resp: 5916

Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.8	31.2
279	3.4	3.3	4.9



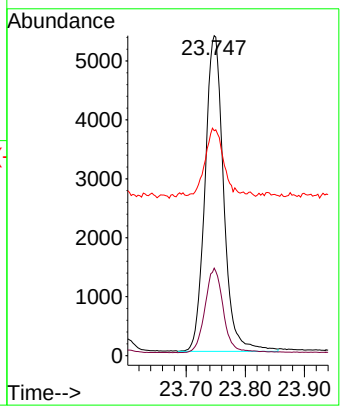


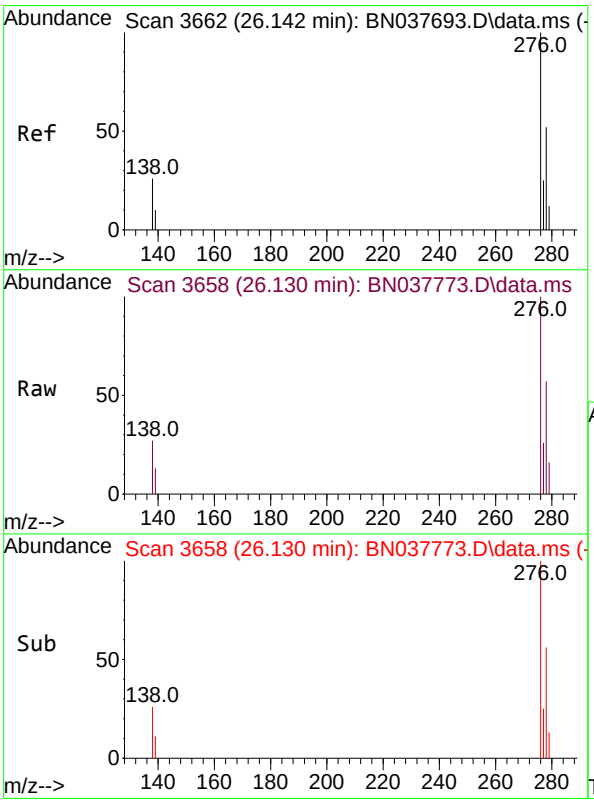
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 28
Delta R.T. -0.006 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:264 Resp: 11726

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.8	32.8
265	70.3	39.4	59.2#

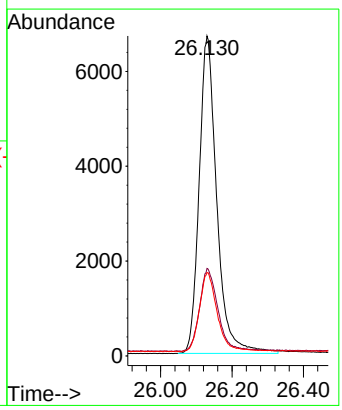


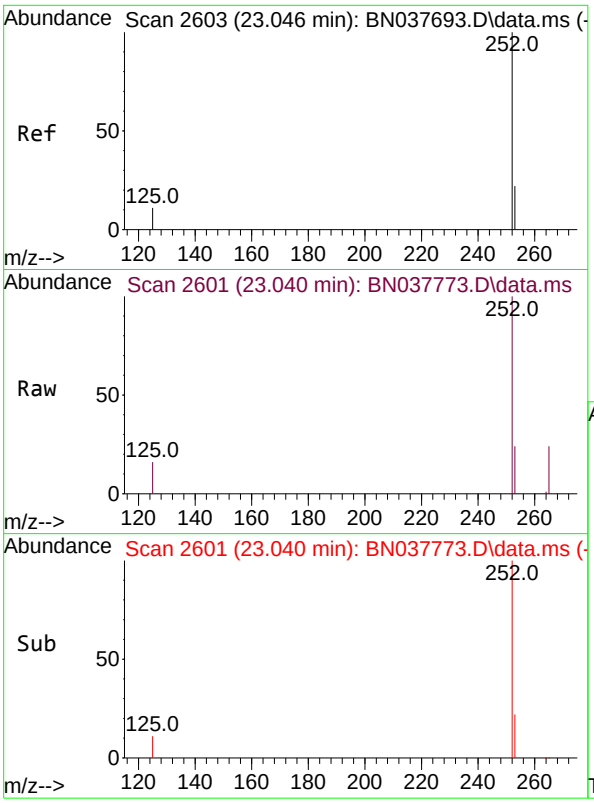


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.465 ng
RT: 26.130 min Scan# 3658
Delta R.T. -0.012 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:276 Resp: 22920

Ion	Ratio	Lower	Upper
276	100		
138	26.8	21.9	32.9
277	25.2	20.1	30.1



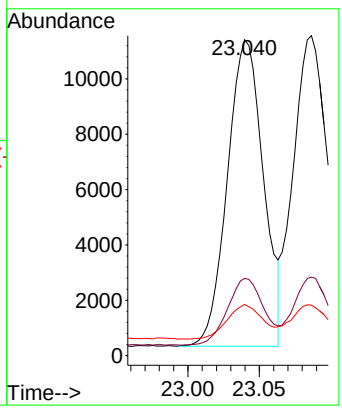


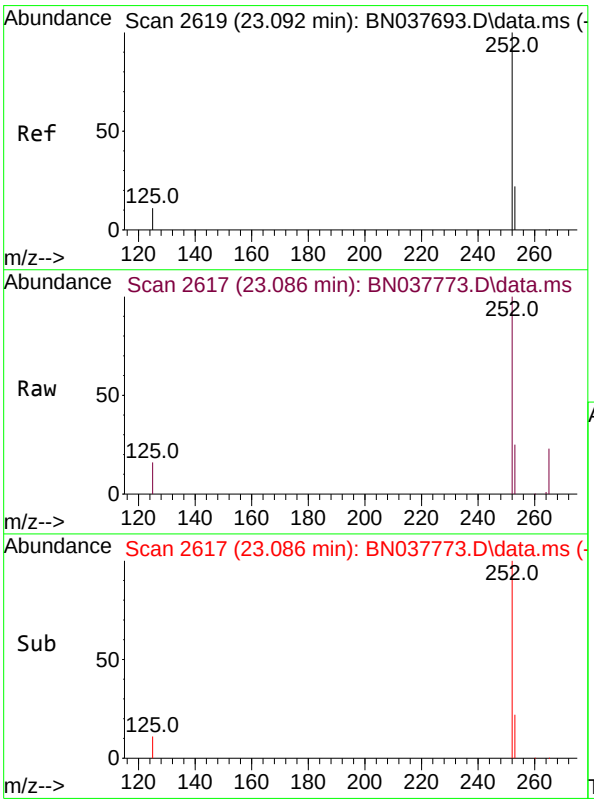
#37
Benzo(b)fluoranthene
Concen: 0.420 ng
RT: 23.040 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:252 Resp: 19407

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.4	29.2
125	16.2	11.2	16.8

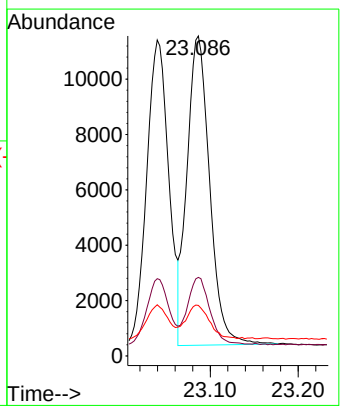


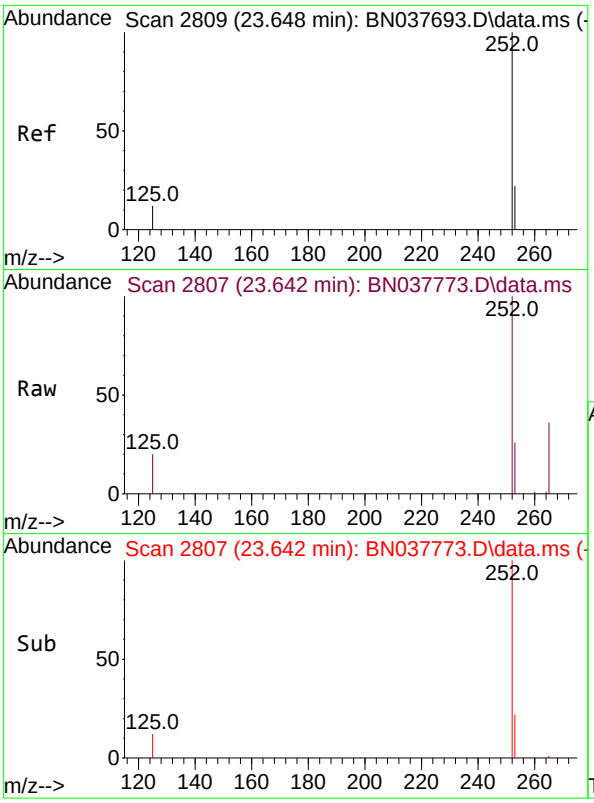


#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 23.086 min Scan# 2617
Delta R.T. -0.006 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:252 Resp: 19956

Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.4	29.0
125	15.8	11.6	17.4



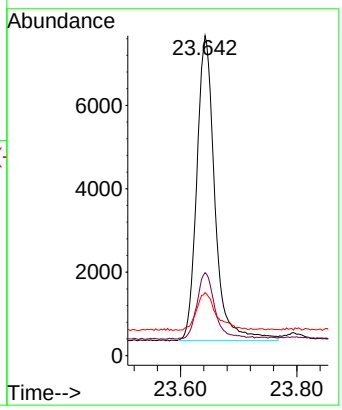


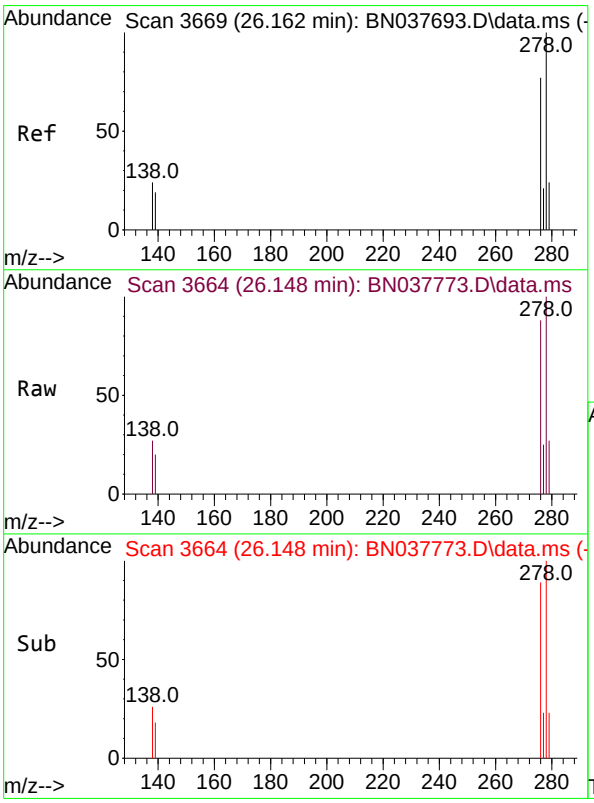
#39
Benzo(a)pyrene
Concen: 0.426 ng
RT: 23.642 min Scan# 28
Delta R.T. -0.006 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:252 Resp: 15734

Ion	Ratio	Lower	Upper
252	100		
253	25.9	20.8	31.2
125	19.7	13.9	20.9

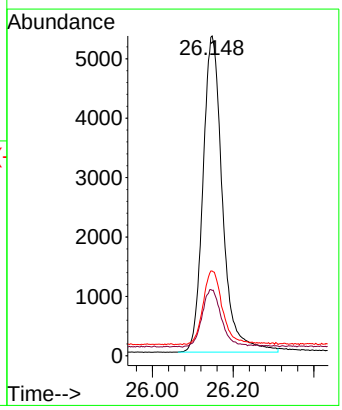


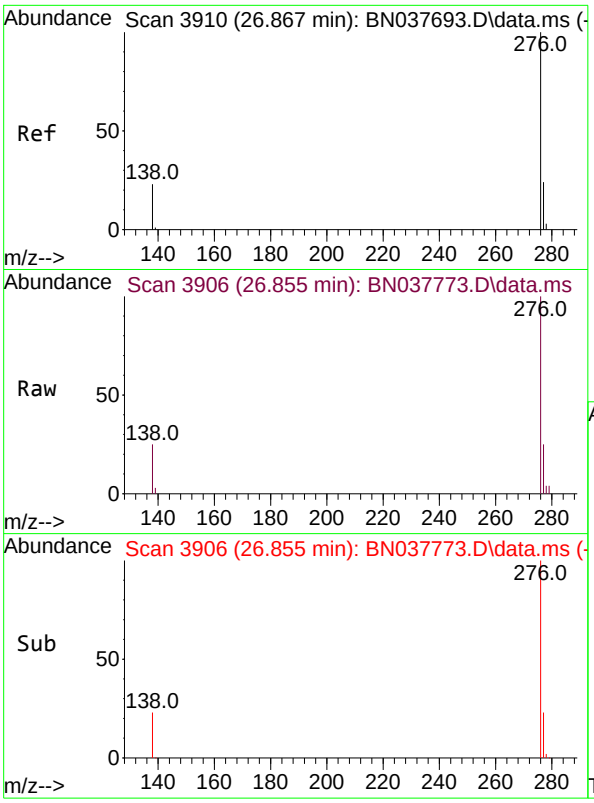


#40
Dibenzo(a,h)anthracene
Concen: 0.455 ng
RT: 26.148 min Scan# 3664
Delta R.T. -0.015 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:278 Resp: 17896

Ion	Ratio	Lower	Upper
278	100		
139	20.5	17.8	26.6
279	26.5	22.0	33.0



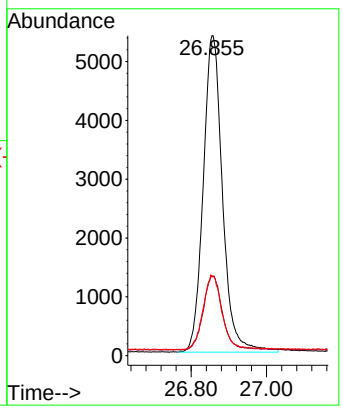


#41
Benzo(g,h,i)perylene
Concen: 0.433 ng
RT: 26.855 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:276 Resp: 19134

Ion	Ratio	Lower	Upper
276	100		
277	24.9	20.6	31.0
138	24.5	20.2	30.2



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BN091125	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.2	BN037692.D	Benzo(k)fluoranthene	Rahul	9/12/2025 8:44:30 AM	Jagrut	9/12/2025 11:51:26 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BN091725	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BN091825	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB169693BS	BN037792.D	Benzo(k)fluoranthene	Rahul	9/19/2025 8:46:42 AM	mohammad	9/23/2025 2:07:38 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BN091925	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BN092225	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BN092325	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BN092425	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BN092525	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091125

Review By	Rahul	Review On	9/12/2025 10:21:18 AM		
Supervise By	Jagrut	Supervise On	9/12/2025 11:52:20 AM		
SubDirectory	BN091125	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037689.D	11 Sep 2025 07:54	RC/JU	Ok
2	SSTDCCC0.4	BN037690.D	11 Sep 2025 09:20	RC/JU	Ok
3	SSTDICC0.1	BN037691.D	11 Sep 2025 09:56	RC/JU	Ok
4	SSTDICC0.2	BN037692.D	11 Sep 2025 10:32	RC/JU	Ok,M
5	SSTDICCC0.4	BN037693.D	11 Sep 2025 11:08	RC/JU	Ok
6	SSTDICC0.8	BN037694.D	11 Sep 2025 11:44	RC/JU	Ok
7	SSTDICC1.6	BN037695.D	11 Sep 2025 12:20	RC/JU	Ok
8	SSTDICC3.2	BN037696.D	11 Sep 2025 12:56	RC/JU	Ok
9	SSTDICC5.0	BN037697.D	11 Sep 2025 13:33	RC/JU	Ok
10	SSTDICV0.4	BN037698.D	11 Sep 2025 14:09	RC/JU	Ok
11	PB169529BL	BN037699.D	11 Sep 2025 14:45	RC/JU	Ok
12	Q2893-03	BN037700.D	11 Sep 2025 15:21	RC/JU	Ok
13	Q2893-03	BN037701.D	11 Sep 2025 15:58	RC/JU	Ok
14	Q2893-09	BN037702.D	11 Sep 2025 16:34	RC/JU	Ok
15	Q2893-09	BN037703.D	11 Sep 2025 17:10	RC/JU	Ok
16	PB169527BL	BN037704.D	11 Sep 2025 17:47	RC/JU	Ok
17	SSTDCCC0.4	BN037705.D	11 Sep 2025 18:23	RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091725

Review By	Rahul	Review On	9/18/2025 2:11:37 PM		
Supervise By	Jagrut	Supervise On	9/18/2025 5:21:45 PM		
SubDirectory	BN091725	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037739.D	17 Sep 2025 10:46	RC/JU	Ok
2	SSTDCCC0.4	BN037740.D	17 Sep 2025 11:25	RC/JU	Ok
3	PB169692BL	BN037741.D	17 Sep 2025 12:02	RC/JU	Ok
4	Q3095-05	BN037742.D	17 Sep 2025 12:38	RC/JU	Ok
5	Q3095-06MS	BN037743.D	17 Sep 2025 13:14	RC/JU	Ok
6	Q3095-07MSD	BN037744.D	17 Sep 2025 13:59	RC/JU	Ok
7	Q3086-01	BN037745.D	17 Sep 2025 14:35	RC/JU	Ok
8	Q3086-02	BN037746.D	17 Sep 2025 15:11	RC/JU	Ok
9	Q3095-01	BN037747.D	17 Sep 2025 15:47	RC/JU	Ok
10	Q3095-02	BN037748.D	17 Sep 2025 16:24	RC/JU	Ok
11	Q3095-03	BN037749.D	17 Sep 2025 17:00	RC/JU	Dilution
12	Q3095-04	BN037750.D	17 Sep 2025 17:36	RC/JU	Ok
13	Q3095-08	BN037751.D	17 Sep 2025 18:13	RC/JU	Ok
14	Q3095-09	BN037752.D	17 Sep 2025 18:49	RC/JU	Ok
15	Q3095-10	BN037753.D	17 Sep 2025 19:25	RC/JU	Ok
16	Q3095-11	BN037754.D	17 Sep 2025 20:01	RC/JU	Ok
17	Q3095-13	BN037755.D	17 Sep 2025 20:37	RC/JU	Ok
18	SP6870	BN037756.D	17 Sep 2025 21:13	RC/JU	Ok
19	SSTDCCC0.4	BN037757.D	17 Sep 2025 21:50	RC/JU	Ok
20	DFTPP	BN037758.D	18 Sep 2025 02:06	RC/JU	Ok
21	SSTDCCC0.4	BN037759.D	18 Sep 2025 02:46	RC/JU	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091725

Review By	Rahul	Review On	9/18/2025 2:11:37 PM		
Supervise By	Jagrut	Supervise On	9/18/2025 5:21:45 PM		
SubDirectory	BN091725	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB169692BL	BN037760.D	18 Sep 2025 03:22	RC/JU	Ok
23	Q3095-12	BN037761.D	18 Sep 2025 03:58	RC/JU	Ok
24	Q3095-14	BN037762.D	18 Sep 2025 04:34	RC/JU	Ok
25	Q3095-15	BN037763.D	18 Sep 2025 05:10	RC/JU	Ok
26	Q3095-16	BN037764.D	18 Sep 2025 05:46	RC/JU	Ok
27	Q3095-17	BN037765.D	18 Sep 2025 06:23	RC/JU	Ok
28	Q3095-18	BN037766.D	18 Sep 2025 06:59	RC/JU	Ok
29	Q3095-19	BN037767.D	18 Sep 2025 07:35	RC/JU	Ok
30	Q3095-20	BN037768.D	18 Sep 2025 08:11	RC/JU	Ok
31	Q3097-07	BN037769.D	18 Sep 2025 08:47	RC/JU	Ok
32	Q3097-08	BN037770.D	18 Sep 2025 09:23	RC/JU	Dilution
33	Q3097-01	BN037771.D	18 Sep 2025 10:00	RC/JU	Ok
34	Q3097-02MS	BN037772.D	18 Sep 2025 11:48	RC/JU	Ok
35	Q3097-03MSD	BN037773.D	18 Sep 2025 12:25	RC/JU	Ok
36	SSTDCCC0.4	BN037774.D	18 Sep 2025 13:16	RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091825

Review By	Rahul	Review On	9/19/2025 8:50:16 AM		
Supervise By	mohammad	Supervise On	9/23/2025 2:07:38 AM		
SubDirectory	BN091825	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037775.D	18 Sep 2025 13:53	RC/JU	Ok
2	SSTDCCC0.4	BN037776.D	18 Sep 2025 14:32	RC/JU	Ok
3	PB169693BL	BN037777.D	18 Sep 2025 15:10	RC/JU	Ok
4	Q3097-09	BN037778.D	18 Sep 2025 15:47	RC/JU	Ok
5	Q3097-04	BN037779.D	18 Sep 2025 16:23	RC/JU	Ok
6	Q3097-05	BN037780.D	18 Sep 2025 17:00	RC/JU	Ok
7	Q3097-06	BN037781.D	18 Sep 2025 17:36	RC/JU	Ok
8	Q3083-03	BN037782.D	18 Sep 2025 18:12	RC/JU	Dilution
9	Q3095-21	BN037783.D	18 Sep 2025 18:49	RC/JU	Ok
10	Q3095-22	BN037784.D	18 Sep 2025 19:25	RC/JU	Ok
11	Q3095-23	BN037785.D	18 Sep 2025 20:02	RC/JU	Ok
12	Q3095-24	BN037786.D	18 Sep 2025 20:38	RC/JU	Ok
13	Q3095-25	BN037787.D	18 Sep 2025 21:14	RC/JU	Ok
14	Q3095-26	BN037788.D	18 Sep 2025 21:51	RC/JU	Ok
15	Q3095-03DL	BN037789.D	18 Sep 2025 22:27	RC/JU	Ok
16	Q3097-08DL	BN037790.D	18 Sep 2025 23:03	RC/JU	Ok
17	PB169692BS	BN037791.D	18 Sep 2025 23:40	RC/JU	Ok
18	PB169693BS	BN037792.D	19 Sep 2025 00:16	RC/JU	Ok,M
19	SSTDCCC0.4	BN037793.D	19 Sep 2025 00:52	RC/JU	Ok
20	DFTPP	BN037794.D	19 Sep 2025 02:08	RC/JU	Ok
21	SSTDCCC0.4	BN037795.D	19 Sep 2025 02:47	RC/JU	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091825

Review By	Rahul	Review On	9/19/2025 8:50:16 AM		
Supervise By	mohammad	Supervise On	9/23/2025 2:07:38 AM		
SubDirectory	BN091825	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB169692BL	BN037796.D	19 Sep 2025 03:24	RC/JU	Ok
23	Q3095-29	BN037797.D	19 Sep 2025 04:00	RC/JU	Ok
24	Q3095-30	BN037798.D	19 Sep 2025 04:37	RC/JU	Ok
25	Q3095-31	BN037799.D	19 Sep 2025 05:13	RC/JU	Ok
26	Q3095-32	BN037800.D	19 Sep 2025 05:49	RC/JU	Ok
27	Q3097-10	BN037801.D	19 Sep 2025 06:25	RC/JU	Ok
28	Q3097-11	BN037802.D	19 Sep 2025 07:01	RC/JU	Ok
29	Q3097-12	BN037803.D	19 Sep 2025 07:37	RC/JU	Ok
30	Q3097-13	BN037804.D	19 Sep 2025 08:13	RC/JU	Dilution
31	Q3097-14	BN037805.D	19 Sep 2025 08:49	RC/JU	Ok
32	Q3097-15	BN037806.D	19 Sep 2025 09:25	RC/JU	Ok
33	Q3097-19	BN037807.D	19 Sep 2025 10:02	RC/JU	Dilution
34	Q3127-13	BN037808.D	19 Sep 2025 10:38	RC/JU	Ok
35	Q3127-14MS	BN037809.D	19 Sep 2025 11:50	RC/JU	Ok,M
36	Q3127-15MSD	BN037810.D	19 Sep 2025 12:27	RC/JU	Ok,M
37	SSTDCCC0.4	BN037811.D	19 Sep 2025 13:03	RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091925

Review By	Rahul	Review On	9/22/2025 8:49:07 AM		
Supervise By	mohammad	Supervise On	9/23/2025 2:08:18 AM		
SubDirectory	BN091925	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037812.D	19 Sep 2025 13:39	RC/JU	Ok
2	SSTDCCC0.4	BN037813.D	19 Sep 2025 14:19	RC/JU	Ok
3	PB169743BL	BN037814.D	19 Sep 2025 14:55	RC/JU	Ok
4	Q3095-27	BN037815.D	19 Sep 2025 15:32	RC/JU	Ok
5	Q3083-03DL	BN037816.D	19 Sep 2025 16:08	RC/JU	Ok
6	Q3097-13DL	BN037817.D	19 Sep 2025 16:45	RC/JU	Ok
7	Q3097-19DL	BN037818.D	19 Sep 2025 17:21	RC/JU	Ok
8	Q3097-21	BN037819.D	19 Sep 2025 17:58	RC/JU	Ok
9	Q3097-22	BN037820.D	19 Sep 2025 18:34	RC/JU	Ok
10	Q3097-23	BN037821.D	19 Sep 2025 19:11	RC/JU	Ok
11	Q3097-24	BN037822.D	19 Sep 2025 19:47	RC/JU	Dilution
12	Q3097-25	BN037823.D	19 Sep 2025 20:24	RC/JU	Dilution
13	Q3097-26	BN037824.D	19 Sep 2025 21:00	RC/JU	Ok
14	Q3127-01	BN037825.D	19 Sep 2025 21:37	RC/JU	Ok
15	Q3127-02	BN037826.D	19 Sep 2025 22:13	RC/JU	Dilution
16	Q3127-03	BN037827.D	19 Sep 2025 22:50	RC/JU	Dilution
17	Q3127-04	BN037828.D	19 Sep 2025 23:26	RC/JU	Dilution
18	PB169743BS	BN037829.D	20 Sep 2025 00:03	RC/JU	Ok
19	SSTDCCC0.4	BN037830.D	20 Sep 2025 00:39	RC/JU	Ok
20	DFTPP	BN037831.D	20 Sep 2025 01:16	RC/JU	Ok
21	SSTDCCC0.4	BN037832.D	20 Sep 2025 02:35	RC/JU	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091925

Review By	Rahul	Review On	9/22/2025 8:49:07 AM		
Supervise By	mohammad	Supervise On	9/23/2025 2:08:18 AM		
SubDirectory	BN091925	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB169743BL	BN037833.D	20 Sep 2025 03:12	RC/JU	Ok
23	Q3127-05	BN037834.D	20 Sep 2025 03:48	RC/JU	Ok
24	Q3127-06	BN037835.D	20 Sep 2025 04:25	RC/JU	Ok
25	Q3127-07	BN037836.D	20 Sep 2025 05:01	RC/JU	Ok
26	Q3127-08	BN037837.D	20 Sep 2025 05:37	RC/JU	Dilution
27	Q3127-09	BN037838.D	20 Sep 2025 06:13	RC/JU	Ok
28	Q3127-10	BN037839.D	20 Sep 2025 06:50	RC/JU	Ok
29	Q3127-11	BN037840.D	20 Sep 2025 07:26	RC/JU	Ok
30	Q3127-12	BN037841.D	20 Sep 2025 08:02	RC/JU	Ok
31	Q3127-16	BN037842.D	20 Sep 2025 08:38	RC/JU	Dilution
32	Q3095-28	BN037843.D	20 Sep 2025 09:14	RC/JU	Ok
33	Q3097-20	BN037844.D	20 Sep 2025 09:51	RC/JU	Dilution
34	Q3127-18	BN037845.D	20 Sep 2025 10:27	RC/JU	Ok
35	Q3127-19	BN037846.D	20 Sep 2025 11:03	RC/JU	Ok
36	SSTDCCC0.4	BN037847.D	20 Sep 2025 11:39	RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN092225

Review By	Rahul	Review On	9/23/2025 8:32:53 AM		
Supervise By	Jagrut	Supervise On	9/23/2025 10:21:18 AM		
SubDirectory	BN092225	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037848.D	22 Sep 2025 08:59	RC/JU	Ok
2	SSTDCCC0.4	BN037849.D	22 Sep 2025 10:19	RC/JU	Ok
3	PB169743BL	BN037850.D	22 Sep 2025 10:55	RC/JU	Ok
4	Q3097-24DL	BN037851.D	22 Sep 2025 11:31	RC/JU	Ok
5	Q3097-25DL	BN037852.D	22 Sep 2025 12:08	RC/JU	Ok
6	Q3127-02DL	BN037853.D	22 Sep 2025 12:44	RC/JU	Ok
7	Q3127-03DL	BN037854.D	22 Sep 2025 13:20	RC/JU	Ok
8	Q3127-04DL	BN037855.D	22 Sep 2025 13:56	RC/JU	Ok
9	Q3127-08DL	BN037856.D	22 Sep 2025 14:33	RC/JU	Ok
10	Q3127-16DL	BN037857.D	22 Sep 2025 15:09	RC/JU	Ok
11	Q3097-20DL	BN037858.D	22 Sep 2025 15:45	RC/JU	Ok
12	SSTDCCC0.4	BN037859.D	22 Sep 2025 16:39	RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN092325

Review By	Rahul	Review On	9/24/2025 8:51:58 AM				
Supervise By	Jagrut	Supervise On	9/24/2025 9:44:29 AM				
SubDirectory	BN092325	HP Acquire Method	BNA_N		HP Processing Method	bn092325	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037860.D	23 Sep 2025 11:33	RC/JU	Ok
2	SSTDICC0.1	BN037861.D	23 Sep 2025 12:13	RC/JU	Ok
3	SSTDICC0.2	BN037862.D	23 Sep 2025 12:49	RC/JU	Ok
4	SSTDICCC0.4	BN037863.D	23 Sep 2025 13:25	RC/JU	Ok
5	SSTDICC0.8	BN037864.D	23 Sep 2025 14:02	RC/JU	Ok
6	SSTDICC1.6	BN037865.D	23 Sep 2025 14:38	RC/JU	Ok
7	SSTDICC3.2	BN037866.D	23 Sep 2025 15:15	RC/JU	Ok
8	SSTDICC5.0	BN037867.D	23 Sep 2025 15:51	RC/JU	Ok
9	SSTDICV0.4	BN037868.D	23 Sep 2025 16:28	RC/JU	Ok
10	PB169743BL	BN037869.D	23 Sep 2025 17:42	RC/JU	Not Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN092425

Review By	Rahul	Review On	9/25/2025 2:38:56 PM		
Supervise By	Jagrut	Supervise On	9/25/2025 2:51:41 PM		
SubDirectory	BN092425	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn092325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037870.D	24 Sep 2025 09:15	RC/JU	Ok
2	SSTDCCC0.4	BN037871.D	24 Sep 2025 09:54	RC/JU	Ok
3	PB169712BL	BN037872.D	24 Sep 2025 10:32	RC/JU	Ok
4	Q3015-05	BN037873.D	24 Sep 2025 11:08	RC/JU	Dilution
5	Q3015-05DL	BN037874.D	24 Sep 2025 13:36	RC/JU	Dilution
6	Q3015-21	BN037875.D	24 Sep 2025 14:12	RC/JU	Dilution
7	Q3015-21DL	BN037876.D	24 Sep 2025 15:05	RC/JU	Ok
8	Q3015-08	BN037877.D	24 Sep 2025 15:48	RC/JU	Dilution
9	Q3015-08DL	BN037878.D	24 Sep 2025 16:58	RC/JU	Ok
10	PB169712BS	BN037879.D	24 Sep 2025 17:39	RC/JU	Not Ok
11	PB169712BSD	BN037880.D	24 Sep 2025 18:16	RC/JU	Not Ok
12	SSTDCCC0.4	BN037881.D	24 Sep 2025 18:52	RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN092525

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	BN092525	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn092325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037882.D	25 Sep 2025 10:52	RC/JU	Ok
2	SSTDCCC0.4	BN037883.D	25 Sep 2025 11:31	RC/JU	Ok
3	PB169793BL	BN037884.D	25 Sep 2025 12:07	RC/JU	Ok
4	PB169712BS	BN037885.D	25 Sep 2025 12:44	RC/JU	Ok
5	PB169793BS	BN037886.D	25 Sep 2025 13:21	RC/JU	Ok
6	PB169793BSD	BN037887.D	25 Sep 2025 13:57	RC/JU	Ok
7	PB169712BSD	BN037888.D	25 Sep 2025 14:34	RC/JU	Ok
8	Q3141-02	BN037889.D	25 Sep 2025 15:11	RC/JU	Ok
9	Q3141-03	BN037890.D	25 Sep 2025 15:48	RC/JU	Ok
10	Q3141-05	BN037891.D	25 Sep 2025 16:24	RC/JU	Ok
11	Q3141-07	BN037892.D	25 Sep 2025 17:01	RC/JU	Ok
12	Q3142-01	BN037893.D	25 Sep 2025 17:38	RC/JU	Ok
13	Q3142-02	BN037894.D	25 Sep 2025 18:15	RC/JU	Ok
14	Q3156-02	BN037895.D	25 Sep 2025 18:51	RC/JU	Ok
15	Q3156-03	BN037896.D	25 Sep 2025 19:28	RC/JU	Ok
16	Q3156-04	BN037897.D	25 Sep 2025 20:05	RC/JU	Ok
17	Q3156-05	BN037898.D	25 Sep 2025 20:41	RC/JU	Dilution
18	Q3156-06	BN037899.D	25 Sep 2025 21:18	RC/JU	Dilution
19	Q3156-07	BN037900.D	25 Sep 2025 21:54	RC/JU	Dilution
20	SSTDCCC0.4	BN037901.D	25 Sep 2025 22:31	RC/JU	Ok
21	DFTPP	BN037902.D	25 Sep 2025 23:47	RC/JU	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN092525

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	BN092525	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn092325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	SSTDCCC0.4	BN037903.D	26 Sep 2025 00:27	RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091125

Review By	Rahul	Review On	9/12/2025 10:21:18 AM	
Supervise By	Jagrut	Supervise On	9/12/2025 11:52:20 AM	
SubDirectory	BN091125	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037689.D	11 Sep 2025 07:54		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037690.D	11 Sep 2025 09:20	A Fresh Calibration is required.	RC/JU	Ok
3	SSTDICC0.1	SSTDICC0.1	BN037691.D	11 Sep 2025 09:56		RC/JU	Ok
4	SSTDICC0.2	SSTDICC0.2	BN037692.D	11 Sep 2025 10:32		RC/JU	Ok,M
5	SSTDICCC0.4	SSTDICCC0.4	BN037693.D	11 Sep 2025 11:08		RC/JU	Ok
6	SSTDICC0.8	SSTDICC0.8	BN037694.D	11 Sep 2025 11:44		RC/JU	Ok
7	SSTDICC1.6	SSTDICC1.6	BN037695.D	11 Sep 2025 12:20		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN037696.D	11 Sep 2025 12:56		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN037697.D	11 Sep 2025 13:33	Compound#14,20 removed from 5 ppm	RC/JU	Ok
10	SSTDICV0.4	ICVBN091125	BN037698.D	11 Sep 2025 14:09		RC/JU	Ok
11	PB169529BL	PB169529BL	BN037699.D	11 Sep 2025 14:45		RC/JU	Ok
12	Q2893-03	MDL-SOIL-03-QT3-202	BN037700.D	11 Sep 2025 15:21	MDL-SOIL -0.1 ppm	RC/JU	Ok
13	Q2893-03	MDL-SOIL-03-QT3-202	BN037701.D	11 Sep 2025 15:58	MDL-SOIL -0.2 ppm	RC/JU	Ok
14	Q2893-09	MDL-WATER-03-QT3-2	BN037702.D	11 Sep 2025 16:34	MDL-WATER -0.1 ppm	RC/JU	Ok
15	Q2893-09	MDL-WATER-03-QT3-2	BN037703.D	11 Sep 2025 17:10	MDL-WATER -0.2 ppm	RC/JU	Ok
16	PB169527BL	PB169527BL	BN037704.D	11 Sep 2025 17:47		RC/JU	Ok
17	SSTDCCC0.4	SSTDCCC0.4EC	BN037705.D	11 Sep 2025 18:23		RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091725

Review By	Rahul	Review On	9/18/2025 2:11:37 PM	
Supervise By	Jagrut	Supervise On	9/18/2025 5:21:45 PM	
SubDirectory	BN091725	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037739.D	17 Sep 2025 10:46		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037740.D	17 Sep 2025 11:25		RC/JU	Ok
3	PB169692BL	PB169692BL	BN037741.D	17 Sep 2025 12:02		RC/JU	Ok
4	Q3095-05	MW203D2-20250909	BN037742.D	17 Sep 2025 12:38		RC/JU	Ok
5	Q3095-06MS	MW203D2-20250909M	BN037743.D	17 Sep 2025 13:14		RC/JU	Ok
6	Q3095-07MSD	MW203D2-20250909M	BN037744.D	17 Sep 2025 13:59		RC/JU	Ok
7	Q3086-01	RW8-SP100-20250911	BN037745.D	17 Sep 2025 14:35		RC/JU	Ok
8	Q3086-02	RW8-SP303-20250911	BN037746.D	17 Sep 2025 15:11		RC/JU	Ok
9	Q3095-01	MW305I-20250908	BN037747.D	17 Sep 2025 15:47		RC/JU	Ok
10	Q3095-02	MW179D-20250908	BN037748.D	17 Sep 2025 16:24		RC/JU	Ok
11	Q3095-03	MW201D-20250908	BN037749.D	17 Sep 2025 17:00	Need 2X Dilution	RC/JU	Dilution
12	Q3095-04	MW179D1-20250908	BN037750.D	17 Sep 2025 17:36		RC/JU	Ok
13	Q3095-08	MW203D1-20250909	BN037751.D	17 Sep 2025 18:13		RC/JU	Ok
14	Q3095-09	MW179D2-20250909	BN037752.D	17 Sep 2025 18:49		RC/JU	Ok
15	Q3095-10	MW201D1-20250909	BN037753.D	17 Sep 2025 19:25		RC/JU	Ok
16	Q3095-11	RE122D1-20250909	BN037754.D	17 Sep 2025 20:01		RC/JU	Ok
17	Q3095-13	MW178I1-20250909	BN037755.D	17 Sep 2025 20:37		RC/JU	Ok
18	SP6870	SP6870	BN037756.D	17 Sep 2025 21:13		RC/JU	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091725

Review By	Rahul	Review On	9/18/2025 2:11:37 PM	
Supervise By	Jagrut	Supervise On	9/18/2025 5:21:45 PM	
SubDirectory	BN091725	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	SSTDCCC0.4	SSTDCCC0.4EC	BN037757.D	17 Sep 2025 21:50		RC/JU	Ok
20	DFTPP	DFTPP	BN037758.D	18 Sep 2025 02:06		RC/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN037759.D	18 Sep 2025 02:46		RC/JU	Ok
22	PB169692BL	PB169692BL	BN037760.D	18 Sep 2025 03:22		RC/JU	Ok
23	Q3095-12	MW202D-20250909	BN037761.D	18 Sep 2025 03:58		RC/JU	Ok
24	Q3095-14	RE123D1-20250909	BN037762.D	18 Sep 2025 04:34		RC/JU	Ok
25	Q3095-15	RE123D3-20250909	BN037763.D	18 Sep 2025 05:10		RC/JU	Ok
26	Q3095-16	MW305D-20250909	BN037764.D	18 Sep 2025 05:46		RC/JU	Ok
27	Q3095-17	DUP01-20250909	BN037765.D	18 Sep 2025 06:23		RC/JU	Ok
28	Q3095-18	RE126D2-20250909	BN037766.D	18 Sep 2025 06:59		RC/JU	Ok
29	Q3095-19	RE126D3-20250909	BN037767.D	18 Sep 2025 07:35		RC/JU	Ok
30	Q3095-20	MW178S-20250910	BN037768.D	18 Sep 2025 08:11		RC/JU	Ok
31	Q3097-07	RE108D2-20250911	BN037769.D	18 Sep 2025 08:47		RC/JU	Ok
32	Q3097-08	RE125D2-20250911	BN037770.D	18 Sep 2025 09:23	Need 5X Dilution	RC/JU	Dilution
33	Q3097-01	RE103D2-20250911	BN037771.D	18 Sep 2025 10:00		RC/JU	Ok
34	Q3097-02MS	RE103D2-20250911MS	BN037772.D	18 Sep 2025 11:48		RC/JU	Ok
35	Q3097-03MSD	RE103D2-20250911MS	BN037773.D	18 Sep 2025 12:25		RC/JU	Ok
36	SSTDCCC0.4	SSTDCCC0.4EC	BN037774.D	18 Sep 2025 13:16		RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091825

Review By	Rahul	Review On	9/19/2025 8:50:16 AM	
Supervise By	mohammad	Supervise On	9/23/2025 2:07:38 AM	
SubDirectory	BN091825	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037775.D	18 Sep 2025 13:53		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037776.D	18 Sep 2025 14:32		RC/JU	Ok
3	PB169693BL	PB169693BL	BN037777.D	18 Sep 2025 15:10		RC/JU	Ok
4	Q3097-09	RE108D1-20250911	BN037778.D	18 Sep 2025 15:47		RC/JU	Ok
5	Q3097-04	RE125D1-20250911	BN037779.D	18 Sep 2025 16:23		RC/JU	Ok
6	Q3097-05	RE125D3-20250911	BN037780.D	18 Sep 2025 17:00		RC/JU	Ok
7	Q3097-06	RE103D3-20250911	BN037781.D	18 Sep 2025 17:36		RC/JU	Ok
8	Q3083-03	MW3S	BN037782.D	18 Sep 2025 18:12	Need 2x Dilution	RC/JU	Dilution
9	Q3095-21	RE126D1-20250910	BN037783.D	18 Sep 2025 18:49		RC/JU	Ok
10	Q3095-22	MW202D1-20250910	BN037784.D	18 Sep 2025 19:25		RC/JU	Ok
11	Q3095-23	RE104D2-20250910	BN037785.D	18 Sep 2025 20:02		RC/JU	Ok
12	Q3095-24	MW178I-20250910	BN037786.D	18 Sep 2025 20:38		RC/JU	Ok
13	Q3095-25	DUP02-20250910	BN037787.D	18 Sep 2025 21:14		RC/JU	Ok
14	Q3095-26	DUP03-20250910	BN037788.D	18 Sep 2025 21:51		RC/JU	Ok
15	Q3095-03DL	MW201D-20250908DL	BN037789.D	18 Sep 2025 22:27		RC/JU	Ok
16	Q3097-08DL	RE125D2-20250911DL	BN037790.D	18 Sep 2025 23:03		RC/JU	Ok
17	PB169692BS	PB169692BS	BN037791.D	18 Sep 2025 23:40		RC/JU	Ok
18	PB169693BS	PB169693BS	BN037792.D	19 Sep 2025 00:16		RC/JU	Ok,M

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091825

Review By	Rahul	Review On	9/19/2025 8:50:16 AM	
Supervise By	mohammad	Supervise On	9/23/2025 2:07:38 AM	
SubDirectory	BN091825	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	SSTDCCC0.4	SSTDCCC0.4EC	BN037793.D	19 Sep 2025 00:52		RC/JU	Ok
20	DFTPP	DFTPP	BN037794.D	19 Sep 2025 02:08		RC/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN037795.D	19 Sep 2025 02:47		RC/JU	Ok
22	PB169692BL	PB169692BL	BN037796.D	19 Sep 2025 03:24		RC/JU	Ok
23	Q3095-29	RE122D2-20250910	BN037797.D	19 Sep 2025 04:00		RC/JU	Ok
24	Q3095-30	RE104D1-20250910	BN037798.D	19 Sep 2025 04:37		RC/JU	Ok
25	Q3095-31	TT180D-20250911	BN037799.D	19 Sep 2025 05:13		RC/JU	Ok
26	Q3095-32	RE122D3-20250911	BN037800.D	19 Sep 2025 05:49		RC/JU	Ok
27	Q3097-10	RE120D3-20250911	BN037801.D	19 Sep 2025 06:25		RC/JU	Ok
28	Q3097-11	RE105D1-20250911	BN037802.D	19 Sep 2025 07:01		RC/JU	Ok
29	Q3097-12	DUP04-20250911	BN037803.D	19 Sep 2025 07:37		RC/JU	Ok
30	Q3097-13	DUP05-20250911	BN037804.D	19 Sep 2025 08:13	Need 2X Dilution	RC/JU	Dilution
31	Q3097-14	RE105D2-20250911	BN037805.D	19 Sep 2025 08:49		RC/JU	Ok
32	Q3097-15	RE117D2-20250911	BN037806.D	19 Sep 2025 09:25		RC/JU	Ok
33	Q3097-19	RE120D1-20250912	BN037807.D	19 Sep 2025 10:02	Need 2X Dilution	RC/JU	Dilution
34	Q3127-13	TT119S1-20250916	BN037808.D	19 Sep 2025 10:38		RC/JU	Ok
35	Q3127-14MS	TT119S1-20250916MS	BN037809.D	19 Sep 2025 11:50		RC/JU	Ok,M
36	Q3127-15MSD	TT119S1-20250916MS	BN037810.D	19 Sep 2025 12:27		RC/JU	Ok,M
37	SSTDCCC0.4	SSTDCCC0.4EC	BN037811.D	19 Sep 2025 13:03		RC/JU	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091825

Review By	Rahul	Review On	9/19/2025 8:50:16 AM	
Supervise By	mohammad	Supervise On	9/23/2025 2:07:38 AM	
SubDirectory	BN091825	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091925

Review By	Rahul	Review On	9/22/2025 8:49:07 AM	
Supervise By	mohammad	Supervise On	9/23/2025 2:08:18 AM	
SubDirectory	BN091925	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037812.D	19 Sep 2025 13:39		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037813.D	19 Sep 2025 14:19		RC/JU	Ok
3	PB169743BL	PB169743BL	BN037814.D	19 Sep 2025 14:55		RC/JU	Ok
4	Q3095-27	RE117D1-20250910	BN037815.D	19 Sep 2025 15:32		RC/JU	Ok
5	Q3083-03DL	MW3SDL	BN037816.D	19 Sep 2025 16:08		RC/JU	Ok
6	Q3097-13DL	DUP05-20250911DL	BN037817.D	19 Sep 2025 16:45		RC/JU	Ok
7	Q3097-19DL	RE120D1-20250912DL	BN037818.D	19 Sep 2025 17:21		RC/JU	Ok
8	Q3097-21	RE120D2-20250912	BN037819.D	19 Sep 2025 17:58		RC/JU	Ok
9	Q3097-22	RE134D1-20250912	BN037820.D	19 Sep 2025 18:34		RC/JU	Ok
10	Q3097-23	RE134D4-20250912	BN037821.D	19 Sep 2025 19:11		RC/JU	Ok
11	Q3097-24	RE134D2-20250912	BN037822.D	19 Sep 2025 19:47	Need 2X Dilution	RC/JU	Dilution
12	Q3097-25	RE134D3-20250912	BN037823.D	19 Sep 2025 20:24	Need 2X Dilution	RC/JU	Dilution
13	Q3097-26	EB01-20250912	BN037824.D	19 Sep 2025 21:00		RC/JU	Ok
14	Q3127-01	DUP08-20250915	BN037825.D	19 Sep 2025 21:37		RC/JU	Ok
15	Q3127-02	RE131D1-20250915	BN037826.D	19 Sep 2025 22:13	Need 2X Dilution	RC/JU	Dilution
16	Q3127-03	RE131D2-20250915	BN037827.D	19 Sep 2025 22:50	Need 2X Dilution	RC/JU	Dilution
17	Q3127-04	DUP07-20250915	BN037828.D	19 Sep 2025 23:26	Need 2X Dilution	RC/JU	Dilution
18	PB169743BS	PB169743BS	BN037829.D	20 Sep 2025 00:03		RC/JU	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091925

Review By	Rahul	Review On	9/22/2025 8:49:07 AM	
Supervise By	mohammad	Supervise On	9/23/2025 2:08:18 AM	
SubDirectory	BN091925	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	SSTDCCC0.4	SSTDCCC0.4EC	BN037830.D	20 Sep 2025 00:39		RC/JU	Ok
20	DFTPP	DFTPP	BN037831.D	20 Sep 2025 01:16		RC/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN037832.D	20 Sep 2025 02:35		RC/JU	Ok
22	PB169743BL	PB169743BL	BN037833.D	20 Sep 2025 03:12		RC/JU	Ok
23	Q3127-05	TT158I1-20250915	BN037834.D	20 Sep 2025 03:48		RC/JU	Ok
24	Q3127-06	TT180D2-20250915	BN037835.D	20 Sep 2025 04:25		RC/JU	Ok
25	Q3127-07	RE135D2-20250915	BN037836.D	20 Sep 2025 05:01		RC/JU	Ok
26	Q3127-08	RE132D6-20250916	BN037837.D	20 Sep 2025 05:37	Need 2X Dilution	RC/JU	Dilution
27	Q3127-09	TT101D2-20250915	BN037838.D	20 Sep 2025 06:13		RC/JU	Ok
28	Q3127-10	TT101D-20250915	BN037839.D	20 Sep 2025 06:50		RC/JU	Ok
29	Q3127-11	RE135D3-20250915	BN037840.D	20 Sep 2025 07:26		RC/JU	Ok
30	Q3127-12	RE132D7-20250916	BN037841.D	20 Sep 2025 08:02		RC/JU	Ok
31	Q3127-16	TT101D2-20250915	BN037842.D	20 Sep 2025 08:38	Need 2X Dilution	RC/JU	Dilution
32	Q3095-28	RE104D3-20250910	BN037843.D	20 Sep 2025 09:14		RC/JU	Ok
33	Q3097-20	DUP06-20250912	BN037844.D	20 Sep 2025 09:51	Need 2X Dilution	RC/JU	Dilution
34	Q3127-18	BPOW1-8-20250917	BN037845.D	20 Sep 2025 10:27		RC/JU	Ok
35	Q3127-19	BPOW1-7-20250917	BN037846.D	20 Sep 2025 11:03		RC/JU	Ok
36	SSTDCCC0.4	SSTDCCC0.4EC	BN037847.D	20 Sep 2025 11:39		RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN092225

Review By	Rahul	Review On	9/23/2025 8:32:53 AM	
Supervise By	Jagrut	Supervise On	9/23/2025 10:21:18 AM	
SubDirectory	BN092225	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn091125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037848.D	22 Sep 2025 08:59		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037849.D	22 Sep 2025 10:19		RC/JU	Ok
3	PB169743BL	PB169743BL	BN037850.D	22 Sep 2025 10:55		RC/JU	Ok
4	Q3097-24DL	RE134D2-20250912DL	BN037851.D	22 Sep 2025 11:31		RC/JU	Ok
5	Q3097-25DL	RE134D3-20250912DL	BN037852.D	22 Sep 2025 12:08		RC/JU	Ok
6	Q3127-02DL	RE131D1-20250915DL	BN037853.D	22 Sep 2025 12:44		RC/JU	Ok
7	Q3127-03DL	RE131D2-20250915DL	BN037854.D	22 Sep 2025 13:20		RC/JU	Ok
8	Q3127-04DL	DUP07-20250915DL	BN037855.D	22 Sep 2025 13:56		RC/JU	Ok
9	Q3127-08DL	RE132D6-20250916DL	BN037856.D	22 Sep 2025 14:33		RC/JU	Ok
10	Q3127-16DL	TT101D2-20250915DL	BN037857.D	22 Sep 2025 15:09		RC/JU	Ok
11	Q3097-20DL	DUP06-20250912DL	BN037858.D	22 Sep 2025 15:45		RC/JU	Ok
12	SSTDCCC0.4	SSTDCCC0.4EC	BN037859.D	22 Sep 2025 16:39		RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN092325

Review By	Rahul	Review On	9/24/2025 8:51:58 AM		
Supervise By	Jagrut	Supervise On	9/24/2025 9:44:29 AM		
SubDirectory	BN092325	HP Acquire Method	BNA_N	HP Processing Method	bn092325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037860.D	23 Sep 2025 11:33		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN037861.D	23 Sep 2025 12:13		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN037862.D	23 Sep 2025 12:49		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN037863.D	23 Sep 2025 13:25	Compound #20 kept on QR	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN037864.D	23 Sep 2025 14:02		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN037865.D	23 Sep 2025 14:38		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN037866.D	23 Sep 2025 15:15		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN037867.D	23 Sep 2025 15:51	Compound#14,24 removed from 5.0 ppm	RC/JU	Ok
9	SSTDICV0.4	ICVBN092325	BN037868.D	23 Sep 2025 16:28		RC/JU	Ok
10	PB169743BL	PB169743BL	BN037869.D	23 Sep 2025 17:42	END CCC missing, Analyzed for Contamination check.	RC/JU	Not Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN092425

Review By	Rahul	Review On	9/25/2025 2:38:56 PM	
Supervise By	Jagrut	Supervise On	9/25/2025 2:51:41 PM	
SubDirectory	BN092425	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn092325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037870.D	24 Sep 2025 09:15		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037871.D	24 Sep 2025 09:54		RC/JU	Ok
3	PB169712BL	PB169712BL	BN037872.D	24 Sep 2025 10:32		RC/JU	Ok
4	Q3015-05	WP0925-PT-BN-WP	BN037873.D	24 Sep 2025 11:08	PT Sample, Need 100X Dilution	RC/JU	Dilution
5	Q3015-05DL	WP0925-PT-BN-WPDL	BN037874.D	24 Sep 2025 13:36		RC/JU	Dilution
6	Q3015-21	WP0925-RR-PAH-WP	BN037875.D	24 Sep 2025 14:12	PT Sample, Need 10X Dilution	RC/JU	Dilution
7	Q3015-21DL	WP0925-RR-PAH-WPD	BN037876.D	24 Sep 2025 15:05		RC/JU	Ok
8	Q3015-08	WP0925-PT-ACIDS-WI	BN037877.D	24 Sep 2025 15:48	PT Sample, Need 50X Dilution	RC/JU	Dilution
9	Q3015-08DL	WP0925-PT-ACIDS-WI	BN037878.D	24 Sep 2025 16:58		RC/JU	Ok
10	PB169712BS	PB169712BS	BN037879.D	24 Sep 2025 17:39	Internal Standard Fail, Use for DOD projects	RC/JU	Not Ok
11	PB169712BSD	PB169712BSD	BN037880.D	24 Sep 2025 18:16	Use for DOD projects	RC/JU	Not Ok
12	SSTDCCC0.4	SSTDCCC0.4EC	BN037881.D	24 Sep 2025 18:52		RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN092525

Review By		Review On	
Supervise By		Supervise On	
SubDirectory	BN092525	HP Acquire Method	BNA_N, 8270_HP Processing Method bn092325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037882.D	25 Sep 2025 10:52		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037883.D	25 Sep 2025 11:31		RC/JU	Ok
3	PB169793BL	PB169793BL	BN037884.D	25 Sep 2025 12:07		RC/JU	Ok
4	PB169712BS	PB169712BS	BN037885.D	25 Sep 2025 12:44		RC/JU	Ok
5	PB169793BS	PB169793BS	BN037886.D	25 Sep 2025 13:21		RC/JU	Ok
6	PB169793BSD	PB169793BSD	BN037887.D	25 Sep 2025 13:57		RC/JU	Ok
7	PB169712BSD	PB169712BSD	BN037888.D	25 Sep 2025 14:34		RC/JU	Ok
8	Q3141-02	BP-VPB-184-EB-20250	BN037889.D	25 Sep 2025 15:11		RC/JU	Ok
9	Q3141-03	BP-VPB-184-GW-60-62	BN037890.D	25 Sep 2025 15:48		RC/JU	Ok
10	Q3141-05	BP-VPB-184-GW-150-1	BN037891.D	25 Sep 2025 16:24		RC/JU	Ok
11	Q3141-07	BP-VPB-184-GW-220-2	BN037892.D	25 Sep 2025 17:01		RC/JU	Ok
12	Q3142-01	RW8-SP100-20250918	BN037893.D	25 Sep 2025 17:38		RC/JU	Ok
13	Q3142-02	RW8-SP303-20250918	BN037894.D	25 Sep 2025 18:15		RC/JU	Ok
14	Q3156-02	RE10-MW01S-2025091	BN037895.D	25 Sep 2025 18:51		RC/JU	Ok
15	Q3156-03	RE131D3-20250918	BN037896.D	25 Sep 2025 19:28		RC/JU	Ok
16	Q3156-04	TT190D1-20250918	BN037897.D	25 Sep 2025 20:05		RC/JU	Ok
17	Q3156-05	RE132D2-20250918	BN037898.D	25 Sep 2025 20:41	Need 2X Dilution	RC/JU	Dilution
18	Q3156-06	RE132D4-20250918	BN037899.D	25 Sep 2025 21:18	Need 2X Dilution	RC/JU	Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN092525

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	BN092525	HP Acquire Method	BNA_N, 8270_HP Processing Method		bn092325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3156-07	TT189D2-20250918	BN037900.D	25 Sep 2025 21:54	Need 2X Dilution	RC/JU	Dilution
20	SSTDCCC0.4	SSTDCCC0.4EC	BN037901.D	25 Sep 2025 22:31		RC/JU	Ok
21	DFTPP	DFTPP	BN037902.D	25 Sep 2025 23:47		RC/JU	Ok
22	SSTDCCC0.4	SSTDCCC0.4	BN037903.D	26 Sep 2025 00:27		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB169693

SOP ID:	M3510C,3580A-Extraction SVOC-21				
Clean Up SOP #:	N/A			**Extraction Start Date :**	09/15/2025
Matrix :	Water			**Extraction Start Time :**	12:00
Weigh By:	N/A	**Extraction By:**	RJ	**Extraction End Date :**	09/15/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	16:30
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	4,5,6,7	**Supervisor By :**	ritesh

Extraction Method: ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6855
Surrogate	1.0ML	0.4 PPM	SP6831
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3937
Baked Na2SO4	N/A	EP2639
H2SO4 1:1	N/A	EP2610
10N NaoH	N/A	EP2609
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

PH Adjusted TO <2 with 1:1 H2SO4 & >11with 10N NAOH ,1.5ML Vial Lot #2210443.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
9/15/25	RJ (EXT-1 cab)	Rclsvoc
16:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB169693

Analytical Method: M3510C,3580A-Extraction SVOC-21 **Concentration Date:** 09/15/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169693BL	SBLK693	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			SEP-1
PB169693BS	SLCS693	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			2
Q3083-03	MW3S	SVOC-SIM	1000	6	ritesh	Evelyn	1	C		3
Q3095-21	RE126D1-20250910	SVOC-SIMGrou p1	990	6	ritesh	Evelyn	1	C		4
Q3095-22	MW202D1-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		5
Q3095-23	RE104D2-20250910	SVOC-SIMGrou p1	980	6	ritesh	Evelyn	1	C		6
Q3095-24	MW178I-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		7
Q3095-25	DUP02-20250910	SVOC-SIMGrou p1	970	6	ritesh	Evelyn	1	C		8
Q3095-26	DUP0-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		9
Q3095-27	RE117D1-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		10
Q3095-28	RE104D3-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		11
Q3095-29	RE122D2-20250910	SVOC-SIMGrou p1	980	6	ritesh	Evelyn	1	C		12
Q3095-30	RE104D1-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		13
Q3095-31	TT180D-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		14
Q3095-32	RE122D3-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		15
Q3097-01	RE103D2-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		16
Q3097-02	Q3097-01MS	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		SEP-1
Q3097-03	Q3097-01MSD	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		2
Q3097-04	RE125D1-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		3
Q3097-05	RE125D3-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		4
Q3097-06	RE103D3-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		5
Q3097-07	RE108D2-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		6
Q3097-08	RE125D2-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		7
Q3097-09	RE108D1-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		8

* **Extracts relinquished on the same date as received.**

RJ 9/15

1696 12:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3095 **WorkList ID :** 191877 **Department :** Extraction **Date :** 09-15-2025 11:28:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3083-03	MW3S	Water	SVOC-SIM	Cool 4 deg C	GENV01	D31	09/11/2025	8270-Modified
Q3095-21	RE126D1-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-22	MW202D1-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-23	RE104D2-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-24	MW178I-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-25	DUP02-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-26	DUP0-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-27	RE117D1-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-28	RE104D3-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-29	RE122D2-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-30	RE104D1-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-31	TT180D-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/11/2025	8270-Modified
Q3095-32	RE122D3-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/11/2025	8270-Modified
Q3097-01	RE103D2-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-02	Q3097-01MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-03	Q3097-01MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-04	RE125D1-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-05	RE125D3-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-06	RE103D3-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-07	RE108D2-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-08	RE125D2-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified

Date/Time 09/15/25 11:55

Raw Sample Received by: RJ (Ext-Cob)

Raw Sample Relinquished by: CP SM

Date/Time 09/15/25 12:35

Raw Sample Received by: CP SM

Raw Sample Relinquished by: RJ (Ext-Cob)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3095 **WorkList ID :** 191877 **Department :** Extraction **Date :** 09-15-2025 11:28:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3097-09	RE108D1-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified

Date/Time 09/15/25 11:55
Raw Sample Received by: RJ (EXL-Lab)
Raw Sample Relinquished by: [signature]

Date/Time 09/15/25 12:35
Raw Sample Received by: [signature]
Raw Sample Relinquished by: RJ (EXL-Lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB169712

SOP ID:	M3510C,3580A-Extraction SVOC-21				
Clean Up SOP #:	N/A			**Extraction Start Date :**	09/16/2025
Matrix :	Water			**Extraction Start Time :**	09:39
Weigh By:	N/A	**Extraction By:**	RJ	**Extraction End Date :**	09/16/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	14:00
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	4,5,6,7	**Supervisor By :**	ritesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6855
Surrogate	1.0ML	0.4 PPM	SP6831
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3937
Baked Na2SO4	N/A	EP2639
H2SO4 1:1	N/A	EP2610
10N NaoH	N/A	EP2609
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

PH Adjusted TO <2 with 1:1 H2SO4 & >11with 10N NAOH ,1.5ML Vial Lot #2210443.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
9/16/25	RJ (EXT-1Lab)	RC/SVOC
14:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB169712

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 09/16/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169712BL	SBLK712	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1			SEP-1
PB169712BS	SLCS712	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1			2
PB169712BSD	SLCSD712	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1			3
Q3015-05	WP0925-PT-BN-WP	SVOCMS Group3	1000	6	ritesh	Evelyn	1			4
Q3015-08	WP0925-PT-ACIDS-WP	SVOCMS Group4	1000	6	ritesh	Evelyn	1			5
Q3015-21	WP0925-RR-PAH-WP	SVOCMS Group5	1000	6	ritesh	Evelyn	1			6
Q3097-10	RE120D3-20250911	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1	C		7
Q3097-11	RE105D1-20250911	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1	C		8
Q3097-12	DUP04-20250911	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1	C		9
Q3097-13	DUP05-20250911	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1	C		10
Q3097-14	RE105D2-20250911	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1	C		11
Q3097-15	RE117D2-20250911	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1	C		12
Q3097-19	RE120D1-20250911	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1	C		13
Q3097-20	DUP06-20250911	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1	C		14
Q3097-21	RE120D2-20250912	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1	C		15
Q3097-22	RE134D1-20250912	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1	C		16
Q3097-23	RE134D4-20250912	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1	C		SEP-1
Q3097-24	RE134D2-20250912	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1	C		2
Q3097-25	RE134D3-20250912	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1	C		3
Q3097-26	EB01-20250911	SVOC-SIMGroup1	1000	6	ritesh	Evelyn	1	C		4

RJ
9/16

* **Extracts relinquished on the same date as received.**

16 FIZ 9:39

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3096 **WorkList ID :** 191898 **Department :** Extraction **Date :** 09-16-2025 09:32:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3015-05	WP0925-PT-BN-WP	Water	SVOCMS Group3	Cool 4 deg C	ALLI03	QA Of	09/02/2025	8270-Modified
Q3015-08	WP0925-PT-ACIDS-WP	Water	SVOCMS Group4	Cool 4 deg C	ALLI03	QA Of	09/02/2025	8270-Modified
Q3015-21	WP0925-RR-PAH-WP	Water	SVOCMS Group5	Cool 4 deg C	ALLI03	QA Of	09/02/2025	8270-Modified
Q3097-10	RE120D3-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-11	RE105D1-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-12	DUP04-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-13	DUP05-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-14	RE105D2-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-15	RE117D2-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-19	RE120D1-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-20	DUP06-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-21	RE120D2-20250912	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-22	RE134D1-20250912	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-23	RE134D4-20250912	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-24	RE134D2-20250912	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-25	RE134D3-20250912	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-26	EB01-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified

Date/Time 09/16/25 9:33
Raw Sample Received by: RJ (EH-Calib)
Raw Sample Relinquished by: SM

Date/Time 09/16/25 10:00
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (EH-Calib)

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q3095
QUOTE NO.
COC Number 2045022 Q3097

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivadon
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadon
e-mail: Eleanor.Vivadon@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadon PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10563
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

❑ Level 1 (Results Only) ❑ Level 4 (QC + Full Raw Data)
❑ Level 2 (Results + QC) ❑ NJ Reduced ❑ US EPA CLP
❑ Level 3 (Results + QC + Raw Data) ❑ NYS ASP A ❑ NYS ASP B
❑ Other _____
❑ EDD FORMAT _____

ANALYSIS

1: VOCs 8260
2: 1,4 dioxane 8270SIM
3.
4
5
6
7
8
9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A	F								← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
1.	MW3051 - 20250908	GW		X	9/8	1505	3	2	1								
2.	MW179D - 20250908	GW		X	9/8	1538	3	2	1								
3.	MW201D - 20250908	GW		X	9/8	1600	3	2	1								
4.	MW179D1 - 20250908	GW		X	9/8	1630	3	2	1								
5.	MW203D2 - 20250909	GW		X	9/9	1020	~~6~~ 3	~~6~~	3								MS/MSD
6.	MW203D1 - 20250909	GW		X	9/9	1030	3	2	1								
7.	MW179D2 - 20250909	GW		X		1012	3	2	1								
8.	MW201D1 - 20250909	GW		X		1045	3	2	1								
9.	RE122D1 - 20250909	GW		X		1300	3	2	1								
10.	MW202D - 20250909	GW		X	↓	1112	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Mona Acinck	09/12/25 1320	1. 9-12-25 1320
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY SAMPLER:	DATE/TIME: 1720 9-12-25	RECEIVED BY:
3.		3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 3.0 °C
Comments:

Page 1 of 6

CLIENT: ❑ Hand Delivered ❑ Other

Shipment Complete ❑ YES ❑ NO

Copyright © 2024

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q3095
QUOTE NO. Q3097
COC Number 2045023

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivadon
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadon
e-mail: Eleanor.Vivadon@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadon PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10563
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1: VOCs 8260 2: 1,4 dioxane 8270 SIM 3: 4: 5: 6: 7: 8: 9:

PRESERVATIVES

A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER

COMMENTS

← Specify Preservatives

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A	F								
1.	MW178I1-20250909	GW		X	9/9	1300	3	2	1								
2.	RE123D1-20250909	GW		X	9/9	1340	3	2	1								
3.	RE123D3-20250909	GW		X	9/9	1355	3	2	1								
4.	MW305D-20250909	GW		X	9/9	1155	3	2	1								
5.	DUP01-20250909	GW		X	9/9	1235	3	2	1								
6.	RE126D2-20250909	GW		X	9/9	1442	3	2	1								
7.	RE126D3-20250909	GW		X	9/9	1540	3	2	1								
8.	MW178S-20250910	GW		X	9/10	0947 0948 MA	3	2	1								
9.	RE126D1-20250910	GW		X	9/10	1010	3	2	1								
10.	MW202D1-20250910	GW		X	9/10	1010	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Nora Acrete	9/12/25 1320	1.	9-12-25 1320
2.		2.	
3.	9/12/25 1720	3.	

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2-4 °C
Comments:

Page 2 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

Copyright © 2024

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q3095
QUOTE NO. Q3097
COC Number 2045024

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivadon
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadon
e-mail: Eleanor.vivadon@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor vivadon PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10563
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1: VOCs @ 260 2: 1,4 dioxane @ 270 SIM 3: 4: 5: 6: 7: 8: 9:

PRESERVATIVES

A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

COMMENTS

← Specify Preservatives

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	A 1	F 2	3	4	5	6	7	8	9	COMMENTS
1.	RE104D2-20250910	GW		X	9/10	1045	3	2	1								
2.	MW178I-20250910	GW		X	9/10	1052	3	2	1								
3.	DUP02-20250910	GW		X	9/10	1315	3	2	1								
4.	DUP03-20250910	GW		X	9/10	1035	3	2	1								
5.	~~RE-H~~ MA RE117D1-20250910	GW		X	9/10	1300	3	2	1								
6.	RE104D3-20250910	GW		X	9/10	1305	3	2	1								
7.	RE122D2-20250910	GW		X	9/10	1315	3	2	1								
8.	RE104D1-20250910	GW		X	9/10	1115	3	2	1								
9.	TT180D-20250911	GW		X	9/11	0940	3	2	1								
10.	RE122D3-20250911	GW		X	9/11	1010	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Mona Achek	9/12/25 1320	1. 9-12-25 1320
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY SAMPLER:	DATE/TIME: 1720	RECEIVED BY:
3. 9-12-25		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.1 °C
Comments:

Page 3 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

Copyright © 2024

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q3095
QUOTE NO. Q3097
COC Number 2045026

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivadou
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadou
e-mail: Eleanor.Vivadou@arcom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadou PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10563
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1: VOCs 8260 2: 1,4 dioxane 8270SIM 3: 4: 5: 6: 7: 8: 9:

PRESERVATIVES

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRES 1	PRES 2	PRES 3	PRES 4	PRES 5	PRES 6	PRES 7	PRES 8	PRES 9	COMMENTS
								A	F								
								1	2	3	4	5	6	7	8	9	
1.	RE103D2-20250911	GW		X	9/11	0957	9	6	3								MS/MSD
2.	RE125D1-20250911	GW		X	9/11	1055	3	2	1								
3.	RE125D3-20250911	GW		X	9/11	1125	3	2	1								
4.	RE103D3-20250911	GW		X	9/11	1112	3	2	1								
5.	RE108D2-20250911	GW		X	9/11	~~1155~~ 1155 MK	3	2	1								
6.	RE125D2-20250911	GW		X	9/11	1245	3	2	1								
7.	RE108D1-20250911	GW		X	9/11	1255	3	2	1								
8.	RE120D3-20250911	GW		X	9/11	1420	3	2	1								
9.	RE105D2-20250911	GW		X	9/11	1535	3	2	1								
10.	DUP04-20250911	GW		X	9/11	1635	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Mano Achek	09/12/25 1320	1. 9.12.25 1320
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY SAMPLER:	DATE/TIME: 1720	RECEIVED BY:
3. 9.12.25	9.12.25	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments:

Page 4 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

Copyright © 2024

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q3095
QUOTE NO. Q3097
COC Number 2045025

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivaldo
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NMRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivaldo
e-mail: eleanor.vivaldo@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivaldo PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10563
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1: VOCs 8260 2: 1,4 dioxane 8270SIM 3: 4: 5: 6: 7: 8: 9:

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A	F								← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	DUP05-20250911	GW		X	9/11	1105	3	2	1								
2.	RE105D2-20250911	GW		X	9/11	1625	3	2	1								
3.	RE117D2-20250911	GW		X	9/11	1570	3	2	1								
4.	TB01-20250911	Aq			9/11	N/A	2	2									QA/QC TBs
5.	TB02-20250911	Aq			9/11	N/A	2	2									QA/QC TBs
6.	TB03-20250911	Aq			9/11	N/A	2	2									QA/QC TBs
7.	TB04-20250911	Aq			9/11	N/A	2	2									QA/QC TBs
8.	TB05-20250912	Aq			9/12	N/A	2	2									
9.	RE120D1-20250912	GW		X	9/12	0952	3	2	1								
10.	DUP06-20250912	GW		X	9/12	1140	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Mona Achek	9/12/25 1320	1. 1320 9-12-25
2.	DATE/TIME:	2.
3.	DATE/TIME: 1720 9-12-25	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments:

Page 5 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

Copyright © 2024

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q3095
QUOTE NO. Q3097
COC Number 2045027

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: Eleanor Vivadon
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage
PROJECT MANAGER: Eleanor Vivadon
e-mail: eleanor.vivadon@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadon PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10562
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1: VOCs 8260
2: 1,4-dioxane 8270SIM
3.
4
5
6
7
8
9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A	F								← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	RE120D2-20250912	GW		X	9/12	~~0954~~ 0955	3	2	1								
2.	RE134D1-20250912	GW		X	9/12	0955	3	2	1								
3.	RE134D4-20250912	GW		X	9/12	1010	3	2	1								
4.	RE134D2-20250912	GW		X	9/12	0950	3	2	1								
5.	RE134D3-20250912	GW		X	9/12	1030	3	2	1								
6.	EB01-20250912	~~GW~~ AQ		X	9/12	0822	3	2	1								Equipment Blank
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Mario Acick	9/12-25 1320	1. 9.12.25 1320
2.	DATE/TIME:	2.
3.	9-12-25 1720	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments:

Page 6 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

Copyright © 2024

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3097 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 9/12/2025 1:28:00 PM
Project Name : NAVFAC NWIRP Bethpage
Receive DateTime : 9/12/2025 5:20:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : Results Only
EDD Type : EQUIS
Hard Copy Date :
Date Signoff : 9/15/2025 10:00:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3097-01	RE103D2-20250911	Water	09/11/2025	09:57					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-02	Q3097-01MS	Water	09/11/2025	09:57					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-03	Q3097-01MSD	Water	09/11/2025	09:57					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-04	RE125D1-20250911	Water	09/11/2025	10:55					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-05	RE125D3-20250911	Water	09/11/2025	11:25					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-06	RE103D3-20250911	Water	09/11/2025	11:12					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-07	RE108D2-20250911	Water	09/11/2025	11:55					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-08	RE125D2-20250911	Water	09/11/2025	12:45					

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3097 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 9/12/2025 1:28:00 PM
Project Name : NAVFAC NWIRP Bethpag
Receive DateTime : 9/12/2025 5:20:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : Results Only
EDD Type : EQUIS
Hard Copy Date :
Date Signoff : 9/15/2025 10:00:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-09	RE108D1-20250911	Water	09/11/2025	12:55					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-10	RE120D3-20250911	Water	09/11/2025	14:20					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-11	RE105D1-20250911	Water	09/11/2025	15:35					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-12	DUP04-20250911	Water	09/11/2025	16:35					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-13	DUP04-20250911 5	Water	09/11/2025	11:05					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-14	RE105D2-20250911	Water	09/11/2025	16:25					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-15	RE117D2-20250911	Water	09/11/2025	15:20					
					VOCMS Group1		8260-Low		10 Bus. Days

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3097 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 9/12/2025 1:28:00 PM
Project Name : NAVFAC NWIRP Bethpage
Receive DateTime : 9/12/2025 5:20:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : Results Only
EDD Type : EQUIS
Hard Copy Date :
Date Signoff : 9/15/2025 10:00:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3097-16	TB03-20250911	Water	09/11/2025	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-17	TB04-20250911	Water	09/11/2025	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-18	TB05-20250912	Water	09/12/2025	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-19	RE120D1-20250912	Water	09/12/2025	09:52					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-20	DUP06-20250912	Water	09/12/2025	11:40					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-21	RE120D2-20250912	Water	09/12/2025	09:55					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-22	RE~~103~~134D1-20250912	Water	09/12/2025	09:55					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-23	RE134D4-20250912	Water	09/12/2025	10:10					

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3097 AECO15
Client Name : AECOM Technical Services
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Services
Invoice Contact : Eleanor Vivadou

Order Date : 9/12/2025 1:28:00 PM
Project Name : NAVFAC NWIRP Bethpage
Receive DateTime : 9/12/2025 5:20:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : Results Only
EDD Type : EQUIS
Hard Copy Date :
Date Signoff : 9/15/2025 10:00:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-24	RE134D2-20250912	Water	09/12/2025	09:50					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-25	RE134D3-20250912	Water	09/12/2025	10:30					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-26	EB01-20250911	Water	09/12/2025	08:22					
					VOCMS Group1		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 9/15/25 1250

Received By :
Date / Time : 09/15/25 12:50
Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037692.D
Acq On : 11 Sep 2025 10:32
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Sep 11 14:05:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

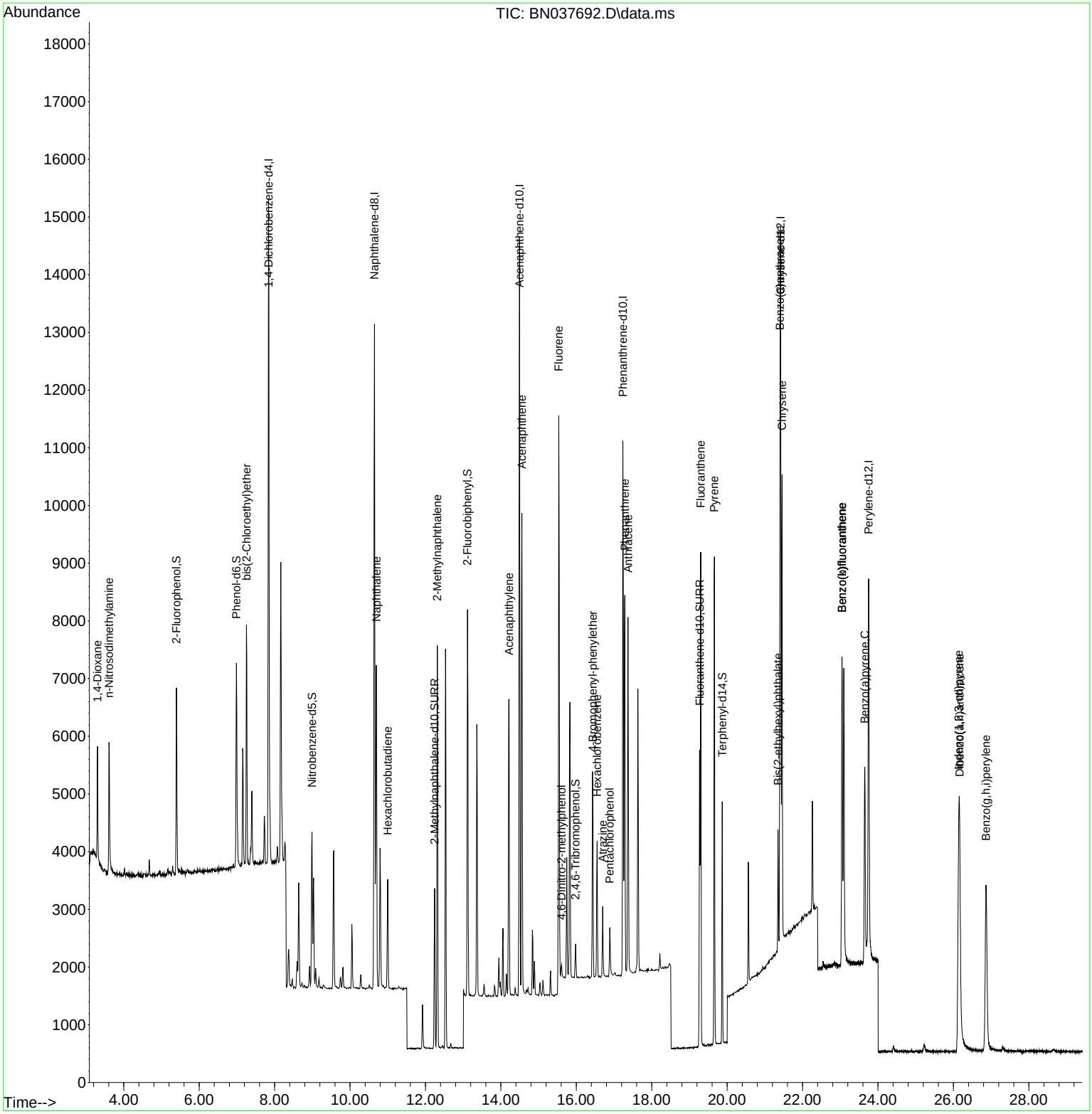
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.840	152	5547	0.400	ng		0.00
7) Naphthalene-d8	10.648	136	15018	0.400	ng		0.00
13) Acenaphthene-d10	14.494	164	6952	0.400	ng		0.00
19) Phenanthrene-d10	17.235	188	12385	0.400	ng		0.00
29) Chrysene-d12	21.420	240	9324	0.400	ng		0.00
35) Perylene-d12	23.753	264	9364	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.399	112	2533	0.199	ng		0.00
5) Phenol-d6	6.988	99	3308	0.200	ng		0.00
8) Nitrobenzene-d5	8.993	82	2098	0.191	ng		0.00
11) 2-Methylnaphthalene-d10	12.243	152	3732	0.188	ng		0.00
14) 2,4,6-Tribromophenol	15.982	330	340	0.188	ng		0.00
15) 2-Fluorobiphenyl	13.115	172	5791	0.199	ng		0.00
27) Fluoranthene-d10	19.271	212	5492	0.177	ng		0.00
31) Terphenyl-d14	19.870	244	3884	0.205	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.304	88	1189	0.206	ng		99
3) n-Nitrosodimethylamine	3.608	42	1470	0.195	ng	#	93
6) bis(2-Chloroethyl)ether	7.255	93	2982	0.202	ng		100
9) Naphthalene	10.701	128	8051	0.196	ng		99
10) Hexachlorobutadiene	11.000	225	1472	0.198	ng	#	100
12) 2-Methylnaphthalene	12.314	142	4889	0.193	ng		100
16) Acenaphthylene	14.216	152	6105	0.191	ng		98
17) Acenaphthene	14.559	154	4168	0.193	ng		98
18) Fluorene	15.535	166	4875	0.187	ng		97
20) 4,6-Dinitro-2-methylph...	15.609	198	201	0.175	ng	#	58
21) 4-Bromophenyl-phenylether	16.441	248	1560	0.193	ng		97
22) Hexachlorobenzene	16.553	284	1906	0.205	ng		99
23) Atrazine	16.702	200	932	0.181	ng		96
24) Pentachlorophenol	16.888	266	461	0.171	ng		98
25) Phenanthrene	17.285	178	7526	0.193	ng		98
26) Anthracene	17.372	178	6375	0.185	ng		99
28) Fluoranthene	19.299	202	7577	0.177	ng		100
30) Pyrene	19.661	202	7543	0.207	ng		99
32) Benzo(a)anthracene	21.402	228	6270	0.193	ng		99
33) Chrysene	21.456	228	6953	0.199	ng		98
34) Bis(2-ethylhexyl)phtha...	21.348	149	2049	0.213	ng	#	97
36) Indeno(1,2,3-cd)pyrene	26.142	276	6982	0.177	ng		99
37) Benzo(b)fluoranthene	23.046	252	6907	0.187	ng	#	93
38) Benzo(k)fluoranthene	23.046	252	6907	0.184	ng		94
39) Benzo(a)pyrene	23.651	252	5489	0.186	ng	#	92
40) Dibenzo(a,h)anthracene	26.165	278	5503	0.175	ng	#	90
41) Benzo(g,h,i)perylene	26.864	276	6566	0.186	ng		95

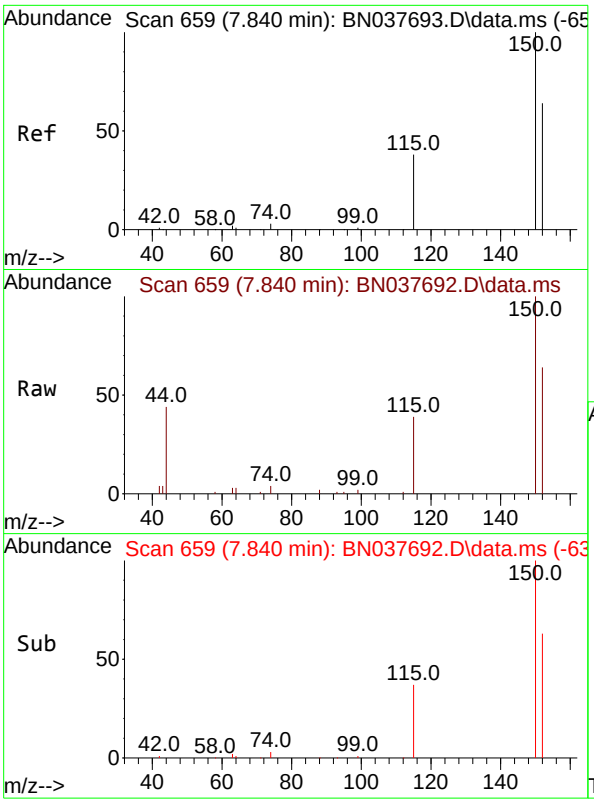
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037692.D
Acq On : 11 Sep 2025 10:32
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Sep 11 14:05:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



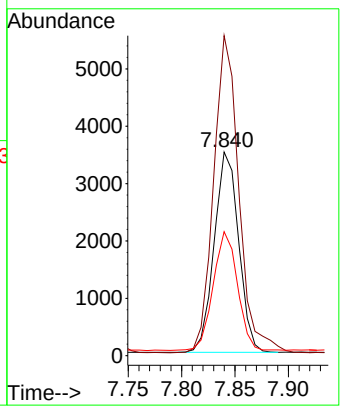


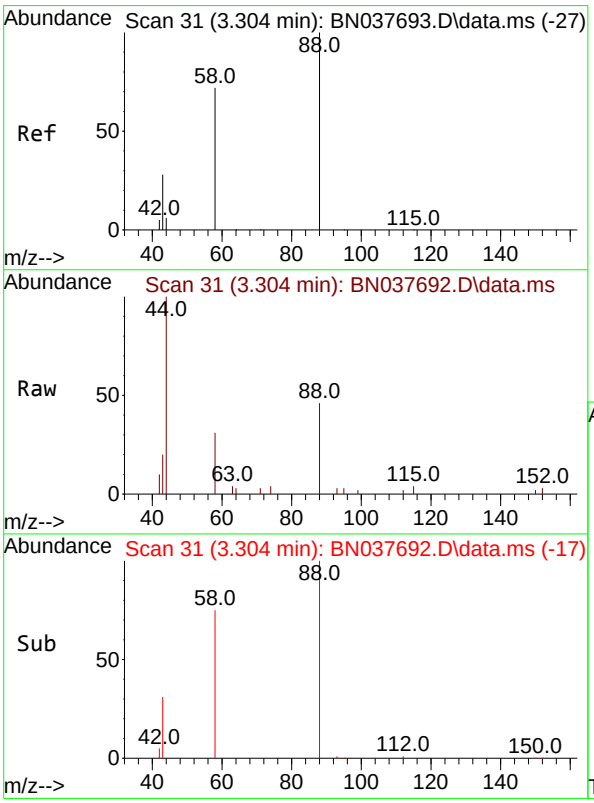
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 5547

Ion	Ratio	Lower	Upper
152	100		
150	157.2	124.5	186.7
115	60.9	49.2	73.8

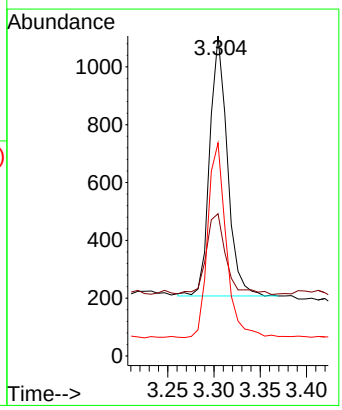


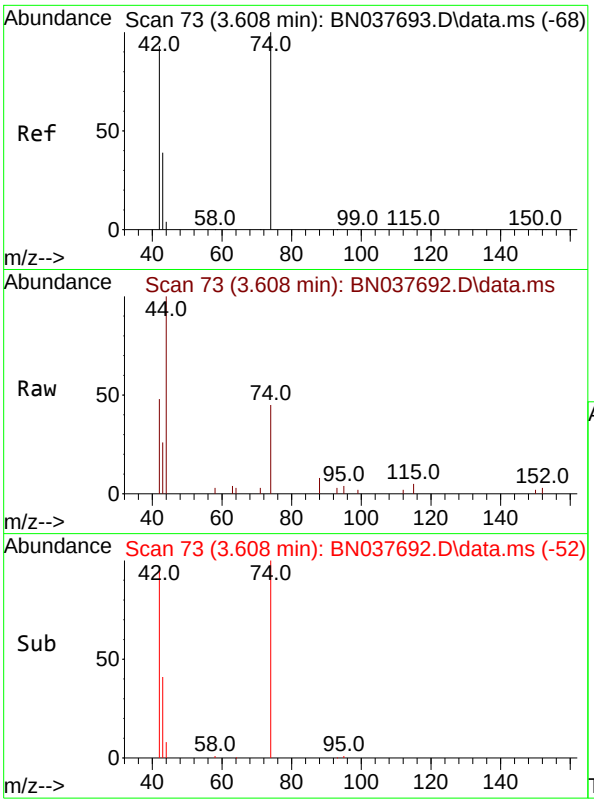


#2
1,4-Dioxane
Concen: 0.206 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 88 Resp: 1189

Ion	Ratio	Lower	Upper
88	100		
43	34.1	26.8	40.2
58	78.4	61.9	92.9



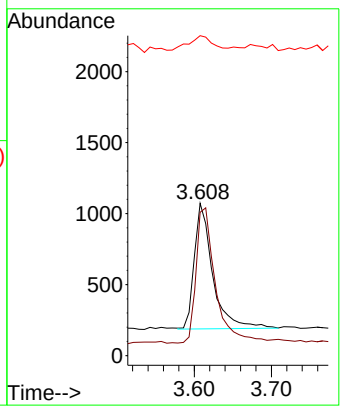


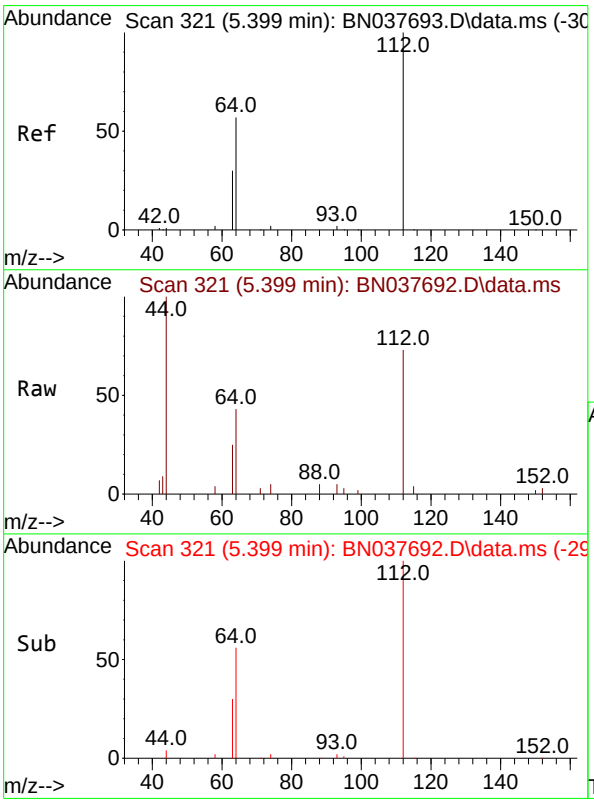
#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1470

Ion	Ratio	Lower	Upper
42	100		
74	113.6	86.0	129.0
44	16.2	8.4	12.6#

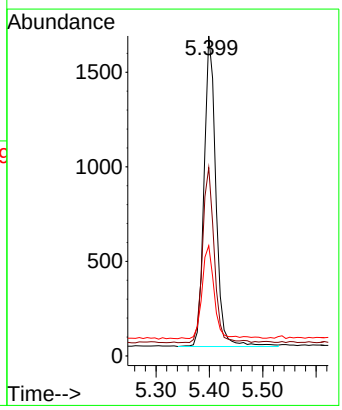


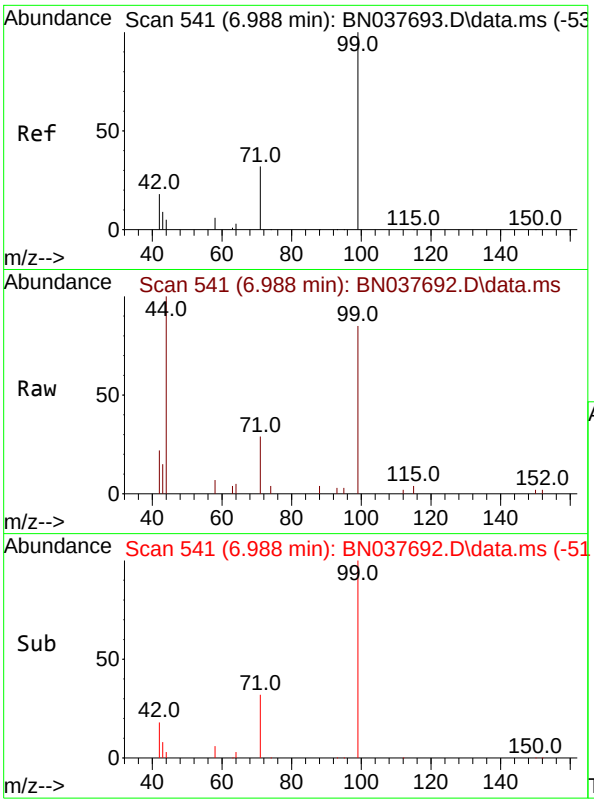


#4
2-Fluorophenol
Concen: 0.199 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:112 Resp: 2533

Ion	Ratio	Lower	Upper
112	100		
64	55.5	44.9	67.3
63	30.4	24.7	37.1



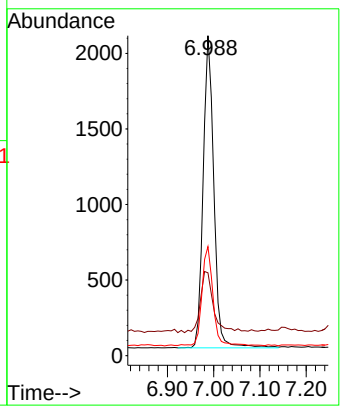


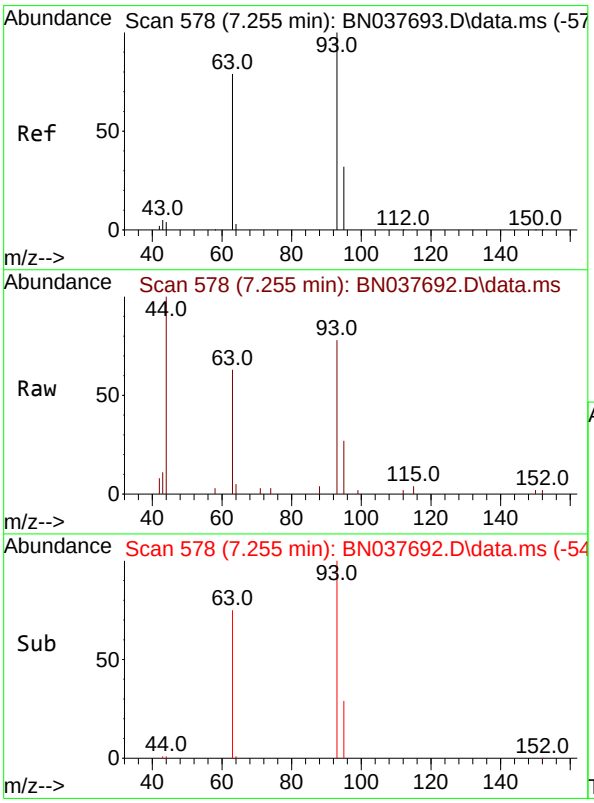
#5
Phenol-d6
Concen: 0.200 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 3308

Ion	Ratio	Lower	Upper
99	100		
42	24.3	16.6	24.8
71	32.8	26.7	40.1

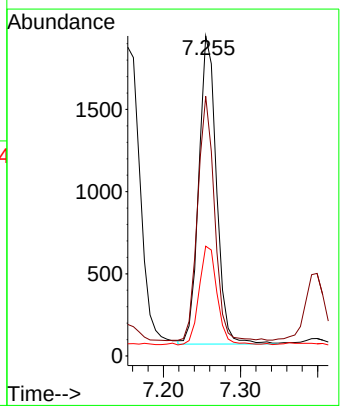


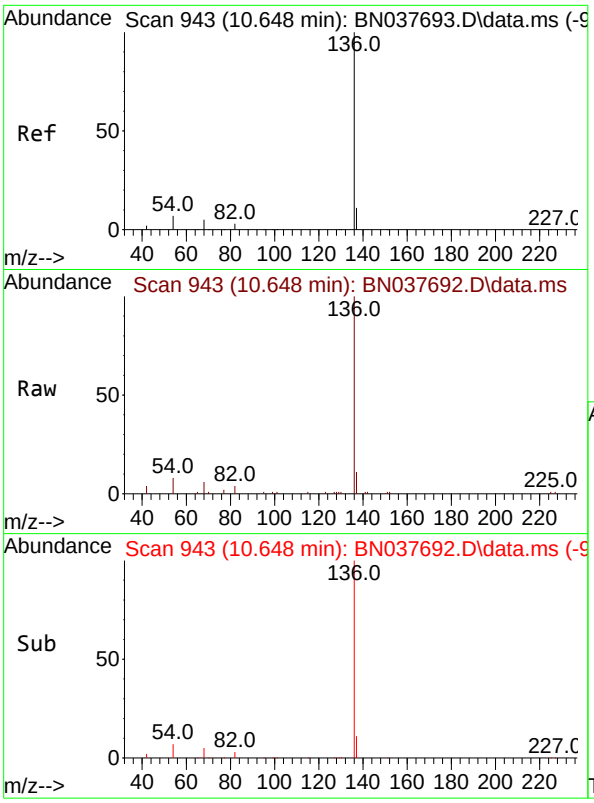


#6
bis(2-Chloroethyl)ether
Concen: 0.202 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 93 Resp: 2982

Ion	Ratio	Lower	Upper
93	100		
63	75.7	60.6	90.8
95	32.5	26.0	39.0



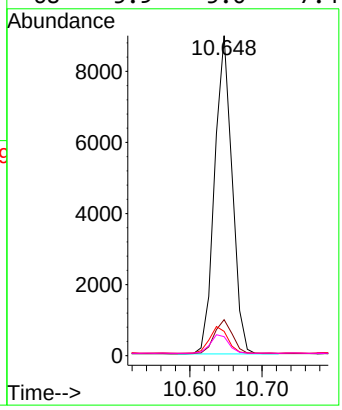


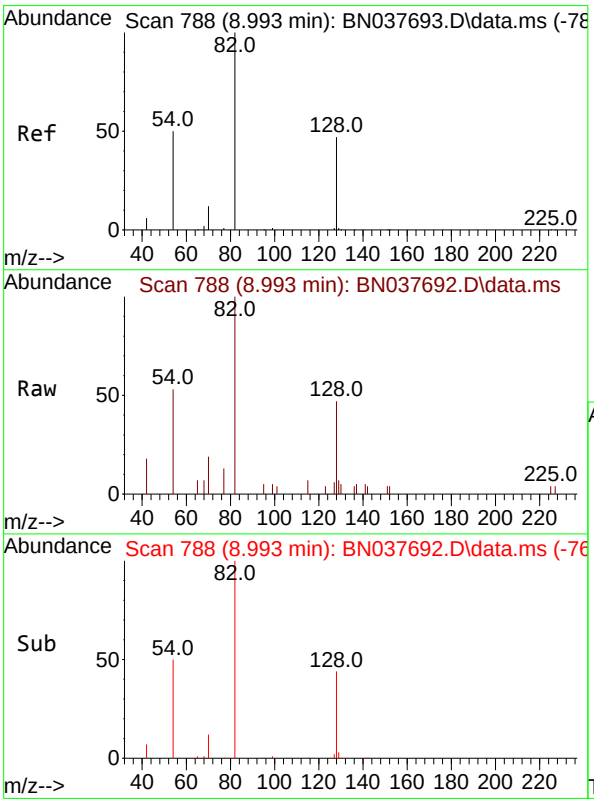
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 15018

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	7.6	6.3	9.5
68	5.9	5.0	7.4

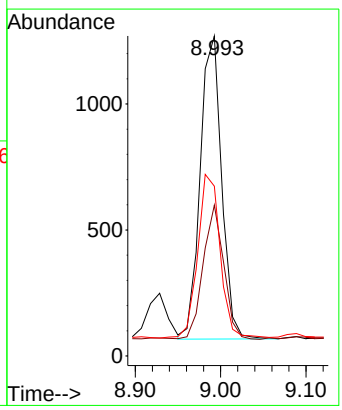


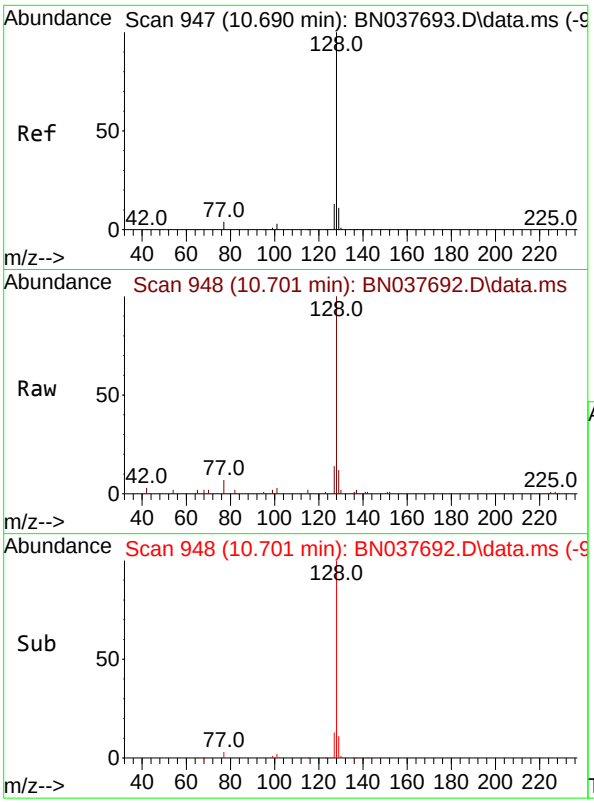


#8
Nitrobenzene-d5
Concen: 0.191 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 82 Resp: 2098

Ion	Ratio	Lower	Upper
82	100		
128	47.2	38.3	57.5
54	53.1	41.4	62.2



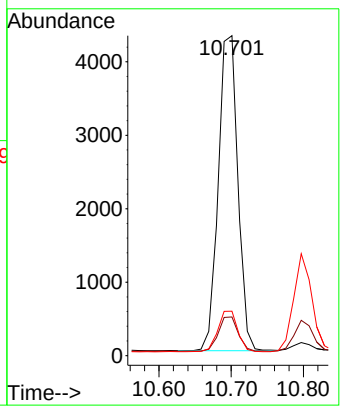


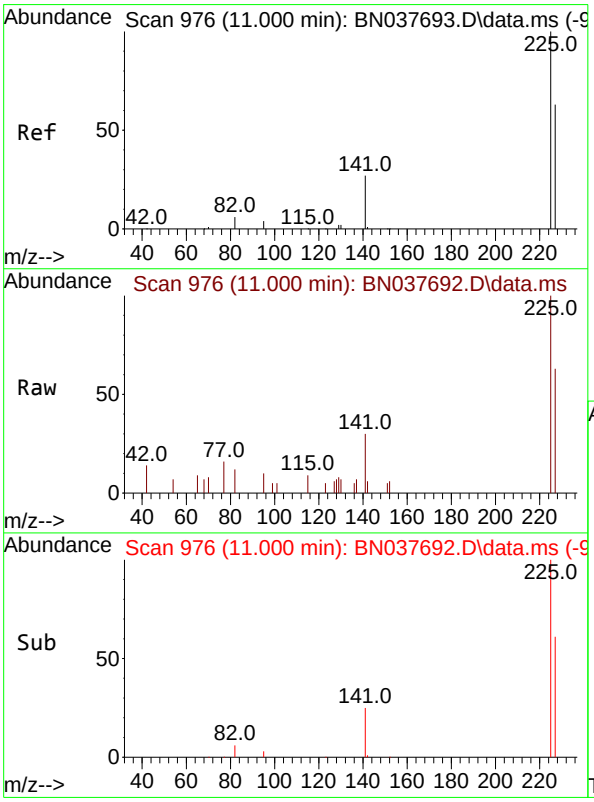
#9
Naphthalene
Concen: 0.196 ng
RT: 10.701 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 8051

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.1	13.7
127	13.9	10.9	16.3

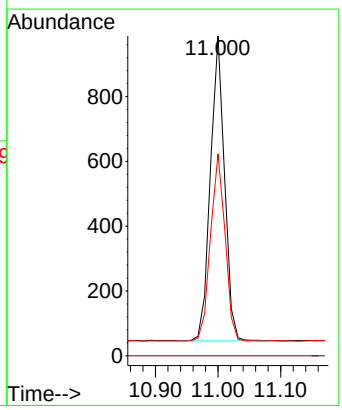


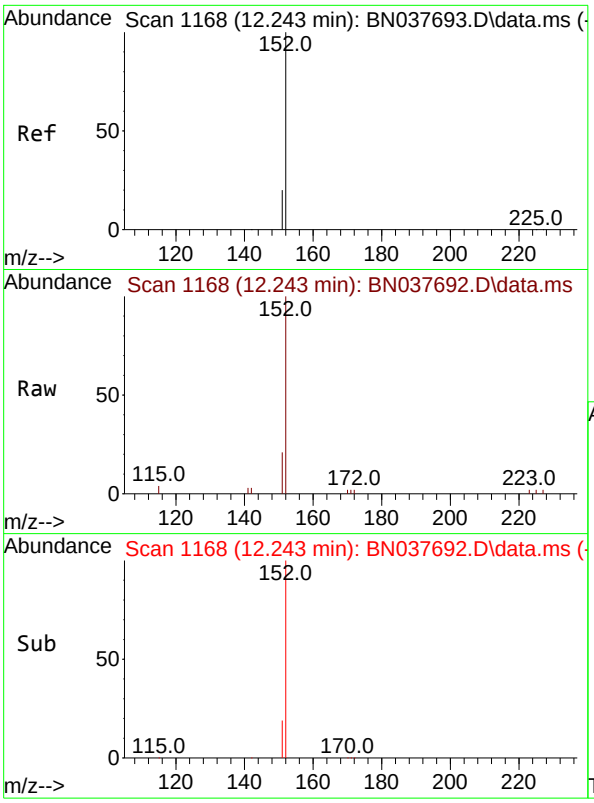


#10
Hexachlorobutadiene
Concen: 0.198 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:225 Resp: 1472

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	50.9	76.3



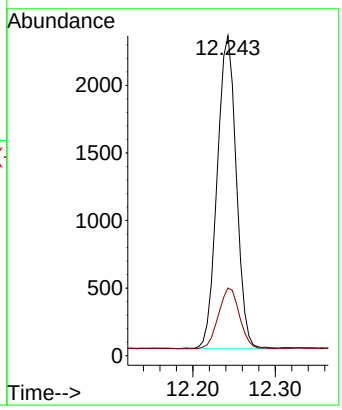


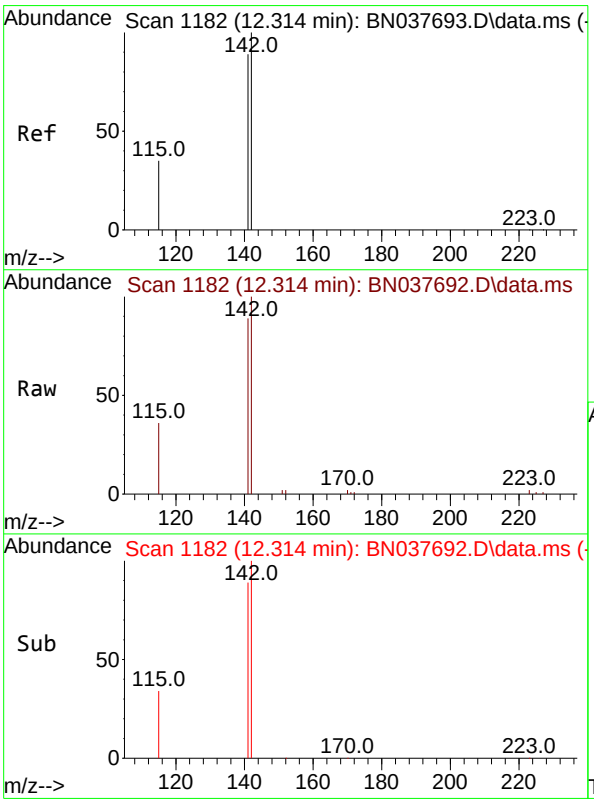
#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 12.243 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 3732

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

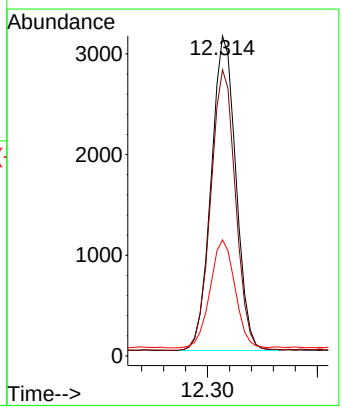


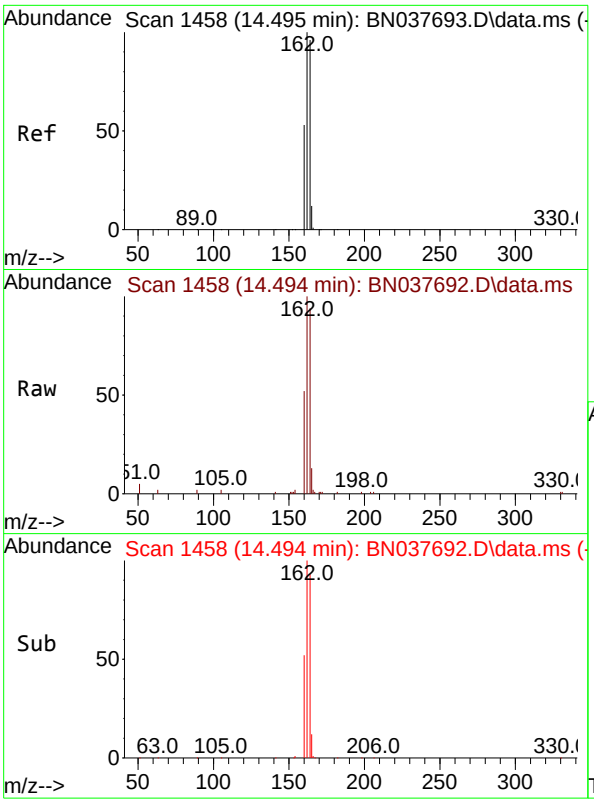


#12
2-Methylnaphthalene
Concen: 0.193 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:142 Resp: 4889

Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.6	107.4
115	36.3	28.6	43.0



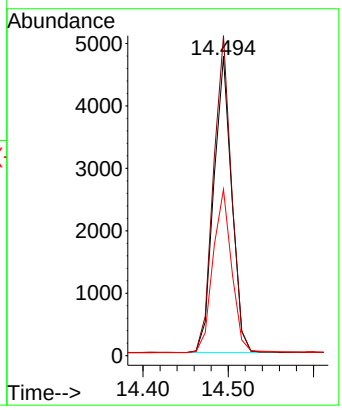


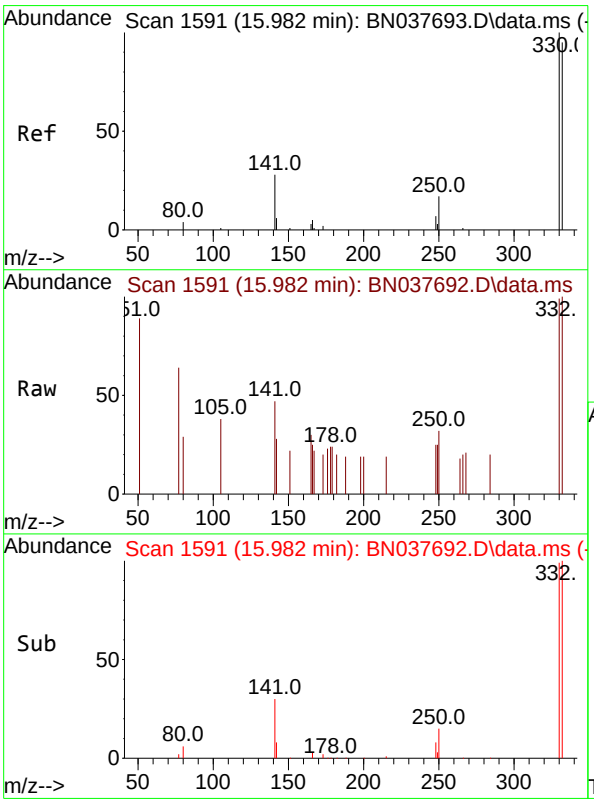
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 6952

Ion	Ratio	Lower	Upper
164	100		
162	106.9	83.1	124.7
160	55.5	44.3	66.5

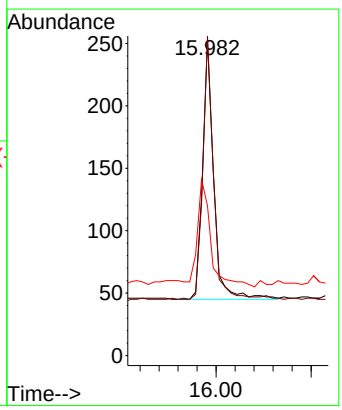


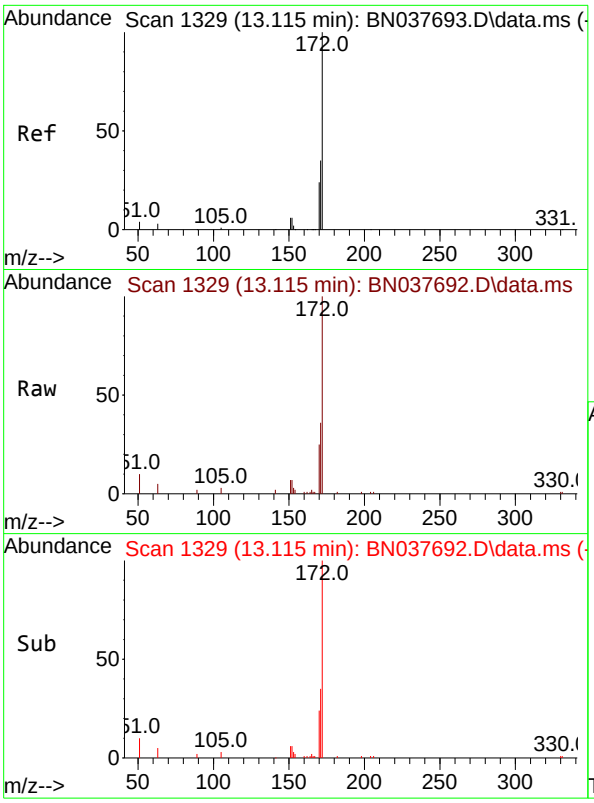


#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:330 Resp: 340

Ion	Ratio	Lower	Upper
330	100		
332	95.6	75.3	112.9
141	49.4	35.0	52.4



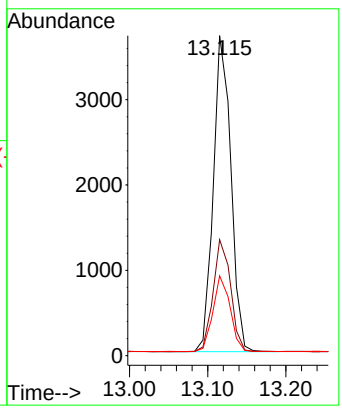


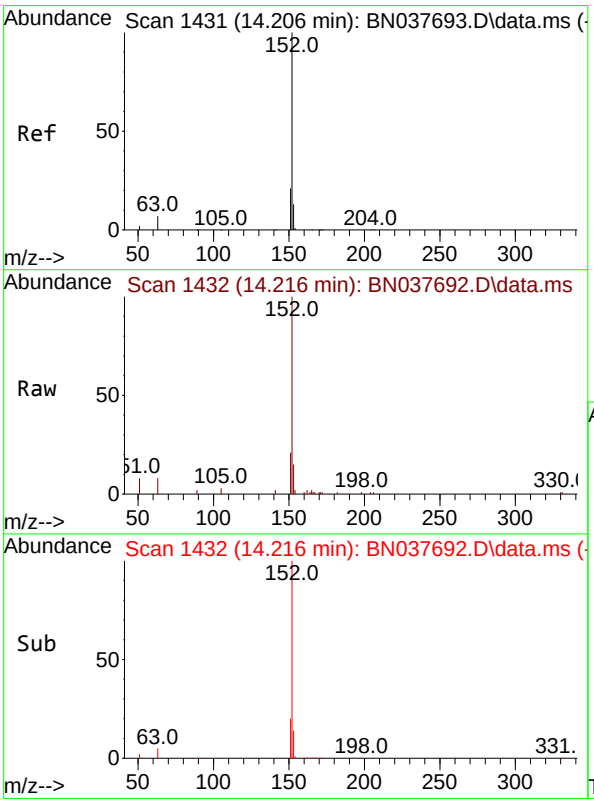
#15
2-Fluorobiphenyl
Concen: 0.199 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 5791

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	24.9	19.8	29.8

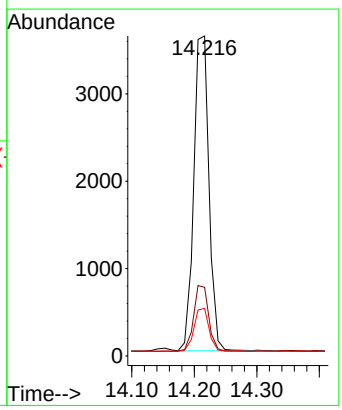


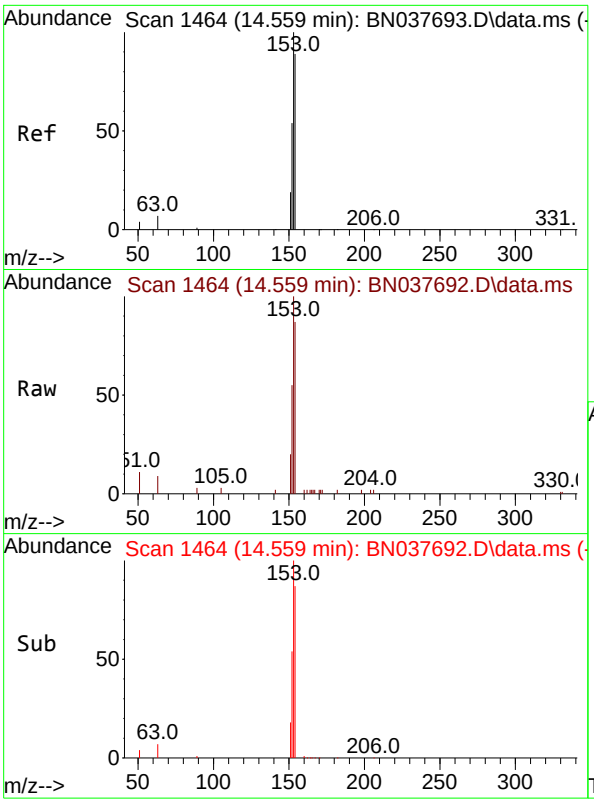


#16
Acenaphthylene
Concen: 0.191 ng
RT: 14.216 min Scan# 1432
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:152 Resp: 6105

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.2	24.2
153	13.8	10.4	15.6



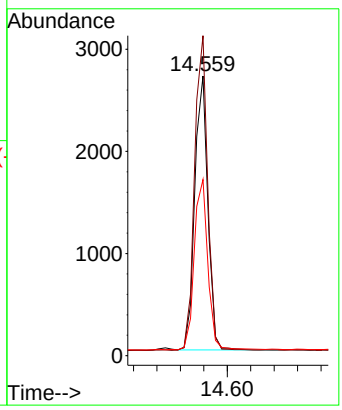


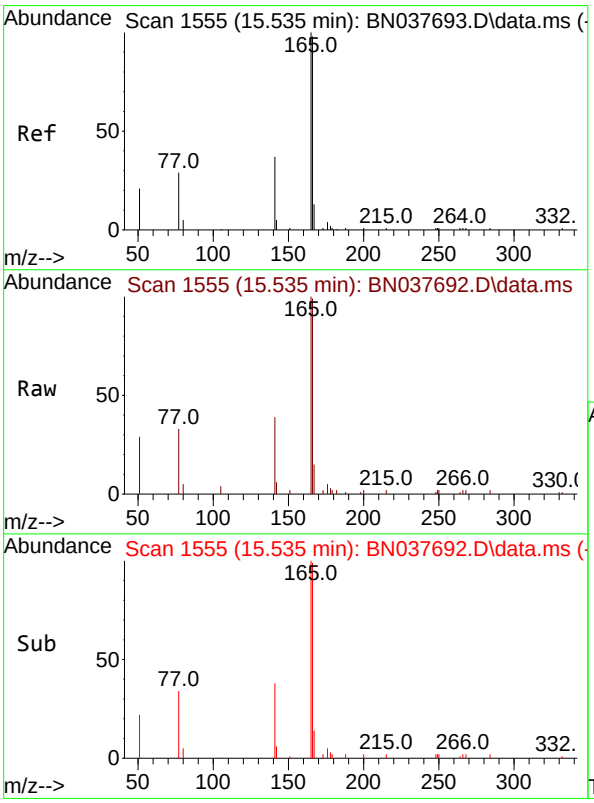
#17
Acenaphthene
Concen: 0.193 ng
RT: 14.559 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 4168

Ion	Ratio	Lower	Upper
154	100		
153	114.9	89.8	134.8
152	64.4	50.2	75.2

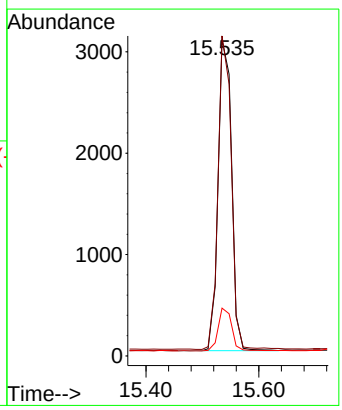


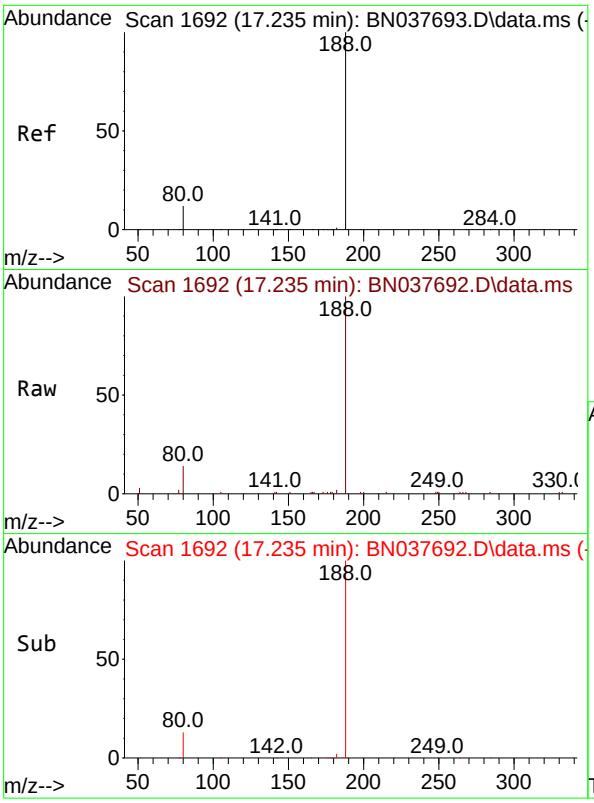


#18
Fluorene
Concen: 0.187 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:166 Resp: 4875

Ion	Ratio	Lower	Upper
166	100		
165	102.3	79.6	119.4
167	14.5	10.6	16.0



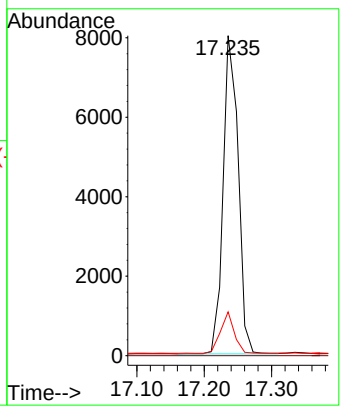


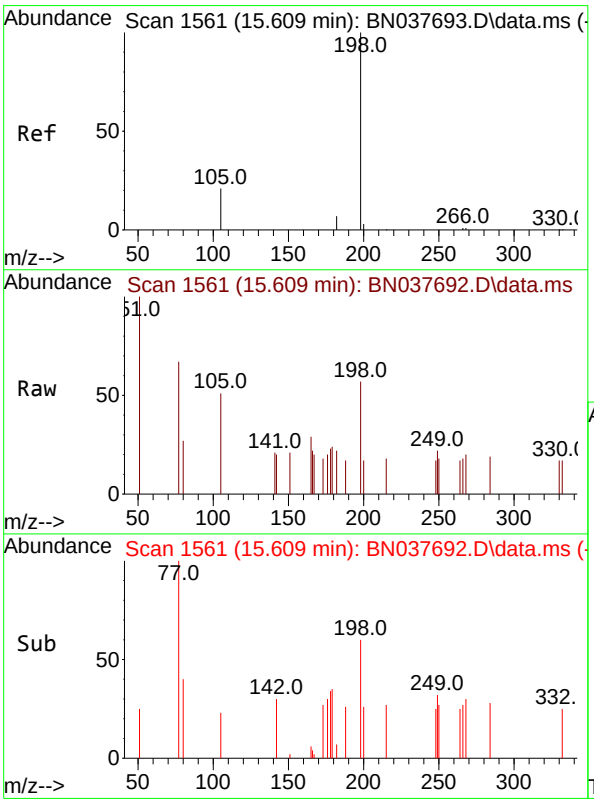
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 12385

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.7	10.6	15.8

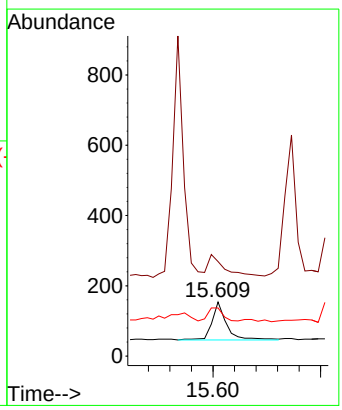


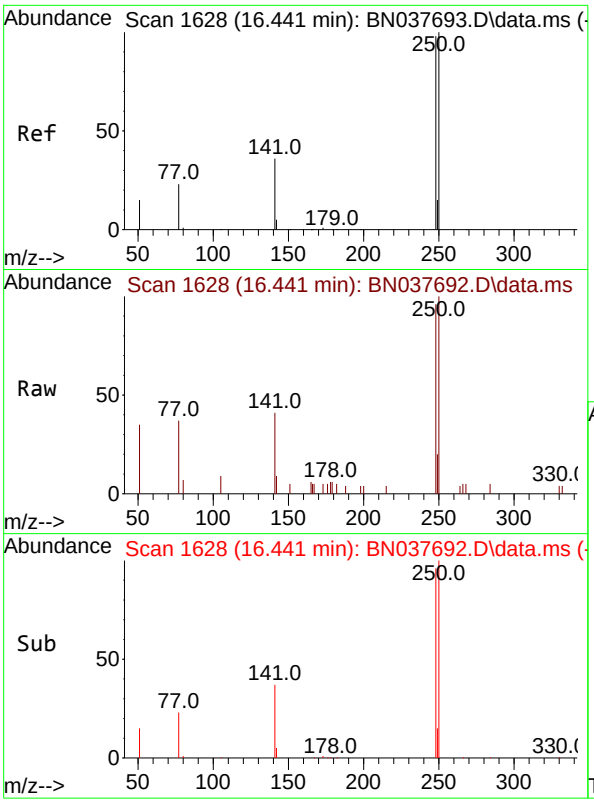


#20
4,6-Dinitro-2-methylphenol
Concen: 0.175 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:198 Resp: 201

Ion	Ratio	Lower	Upper
198	100		
51	174.7	95.1	142.7#
105	89.0	53.8	80.6#



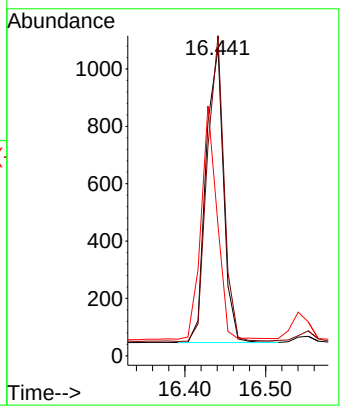


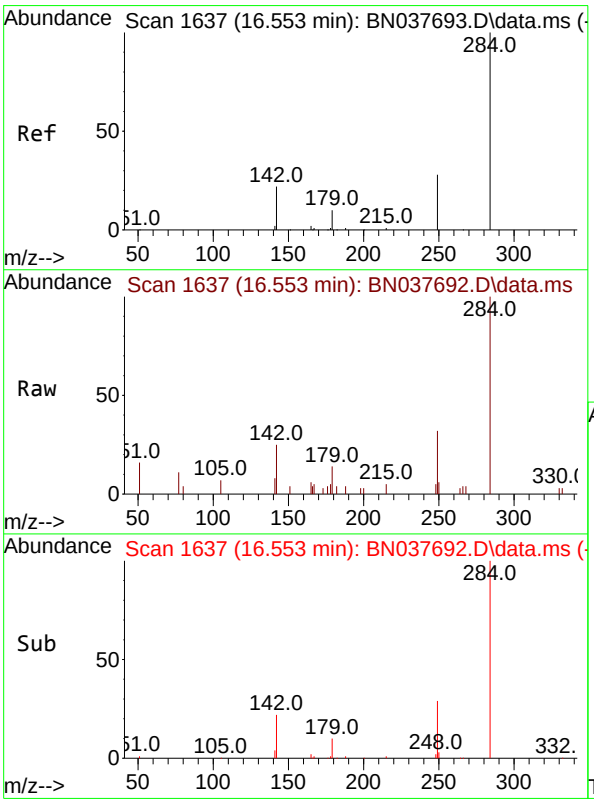
#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.441 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 1560

Ion	Ratio	Lower	Upper
248	100		
250	104.0	81.5	122.3
141	42.3	30.8	46.2

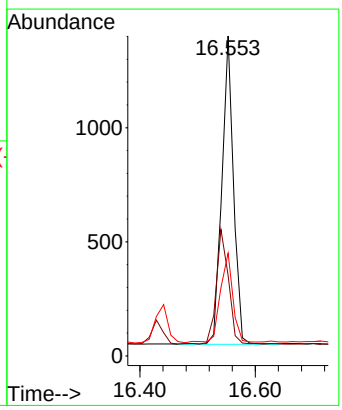


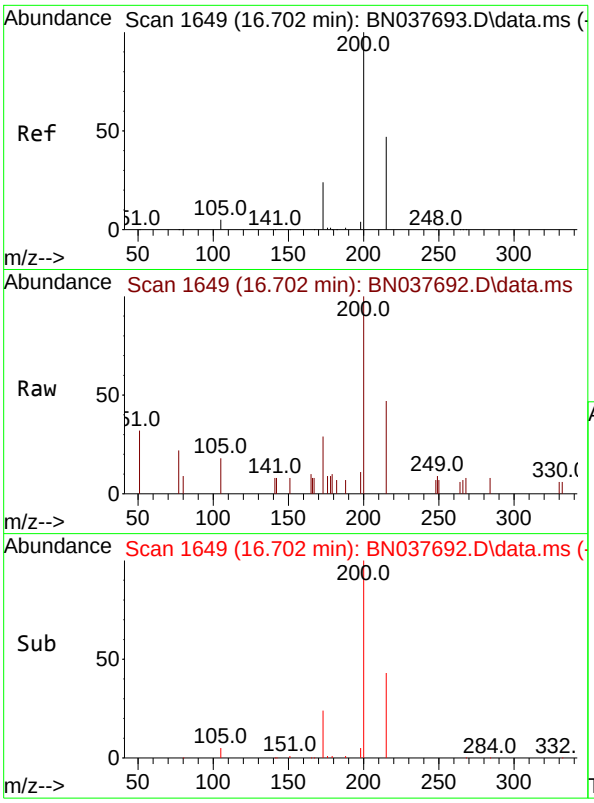


#22
Hexachlorobenzene
Concen: 0.205 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:284 Resp: 1906

Ion	Ratio	Lower	Upper
284	100		
142	38.4	30.9	46.3
249	31.4	24.8	37.2



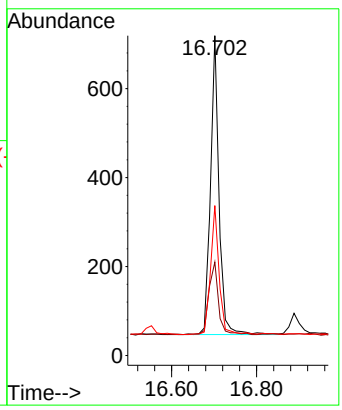


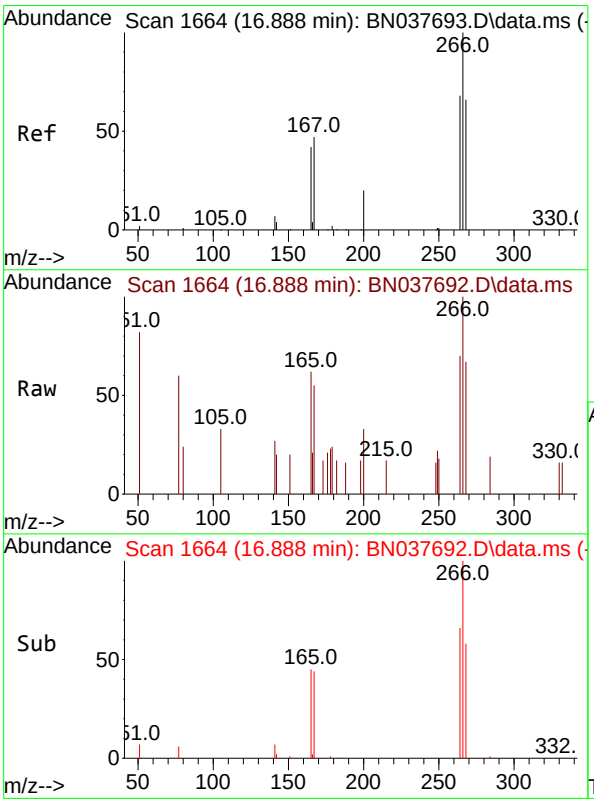
#23
Atrazine
Concen: 0.181 ng
RT: 16.702 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 932

Ion	Ratio	Lower	Upper
200	100		
173	29.2	21.4	32.2
215	46.9	39.2	58.8

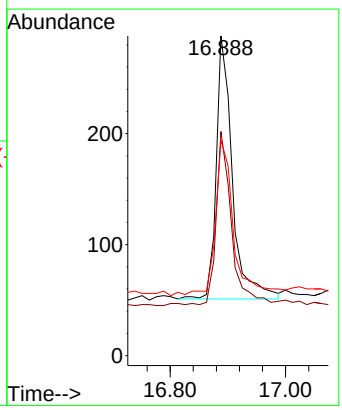


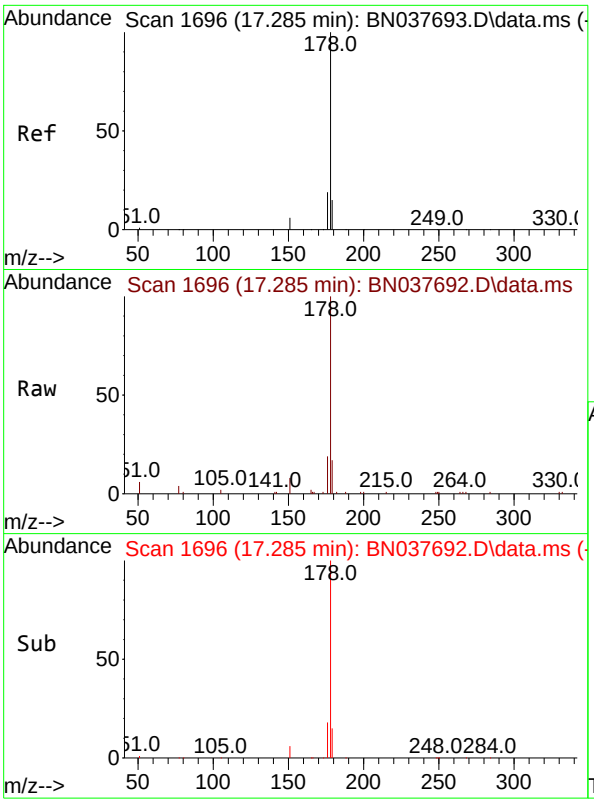


#24
Pentachlorophenol
Concen: 0.171 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:266 Resp: 461

Ion	Ratio	Lower	Upper
266	100		
264	61.6	51.6	77.4
268	67.5	53.2	79.8



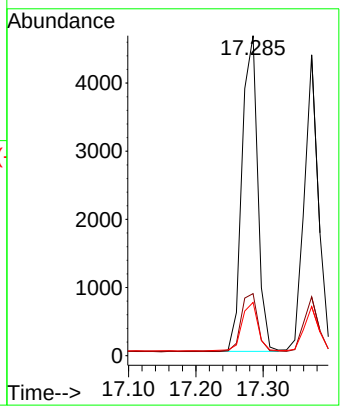


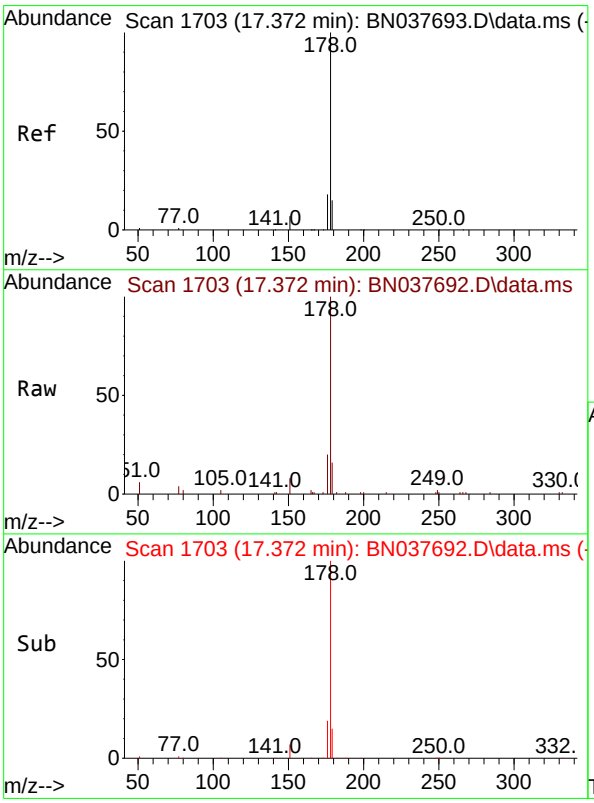
#25
Phenanthrene
Concen: 0.193 ng
RT: 17.285 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 7526

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.3	22.9
179	15.7	12.2	18.2

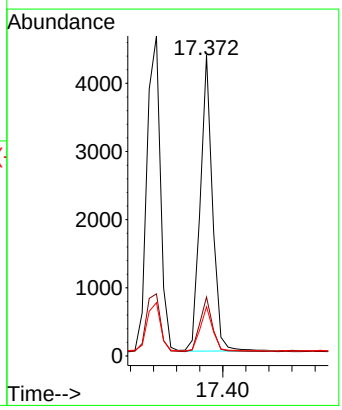


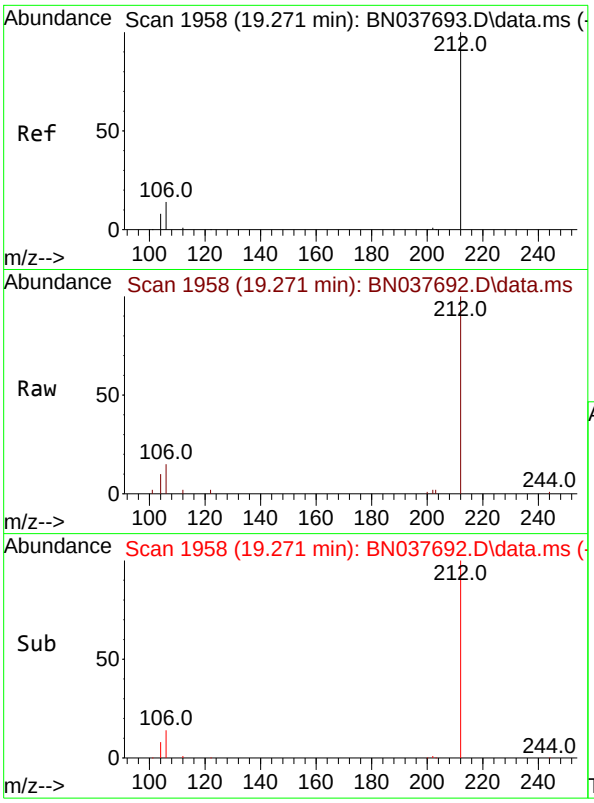


#26
Anthracene
Concen: 0.185 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:178 Resp: 6375

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.6	22.0
179	15.4	12.2	18.4



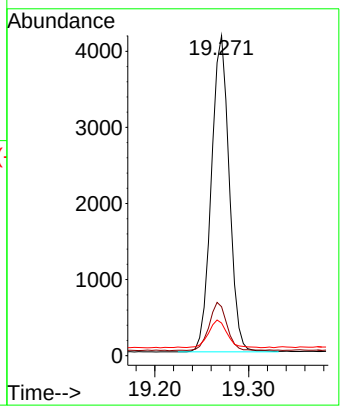


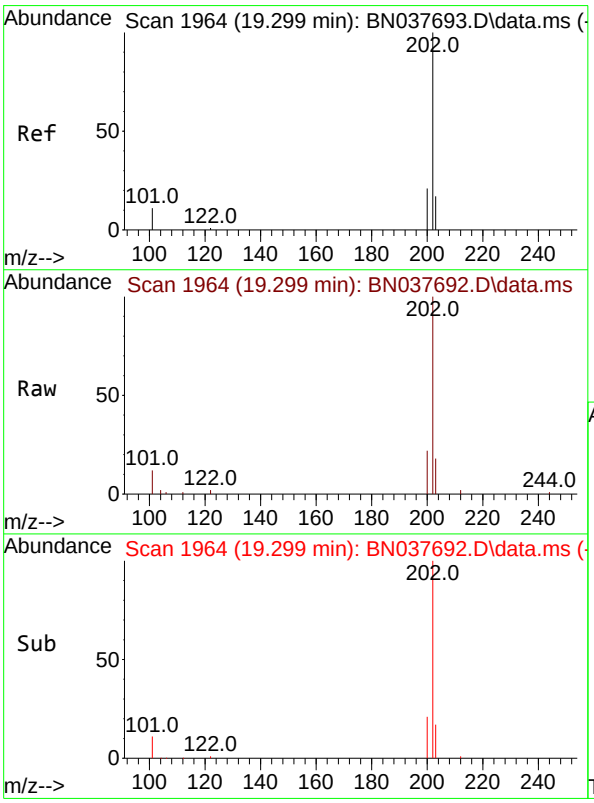
#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 19.271 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 5492

Ion	Ratio	Lower	Upper
212	100		
106	15.4	12.2	18.2
104	9.0	6.9	10.3

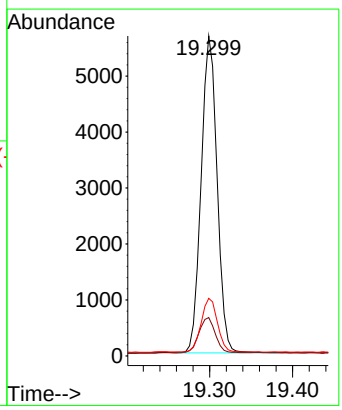


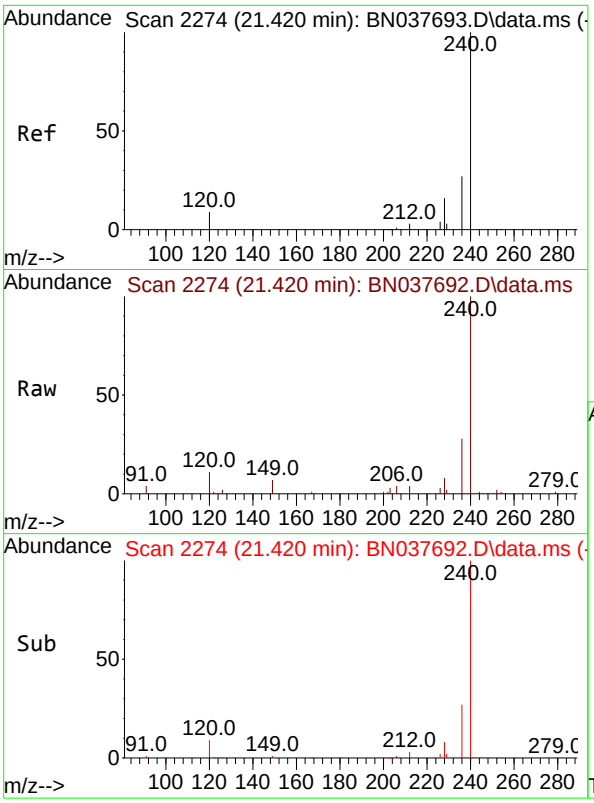


#28
Fluoranthene
Concen: 0.177 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:202 Resp: 7577

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	17.1	13.7	20.5



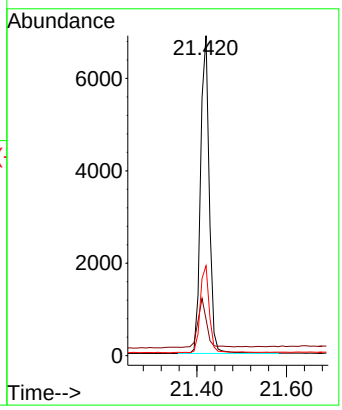


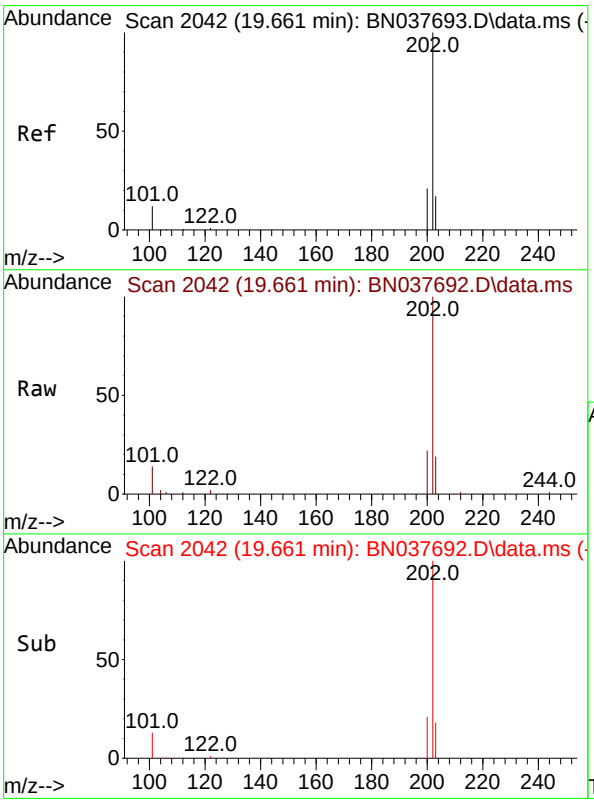
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 9324

Ion	Ratio	Lower	Upper
240	100		
120	11.4	9.2	13.8
236	28.1	22.6	33.8

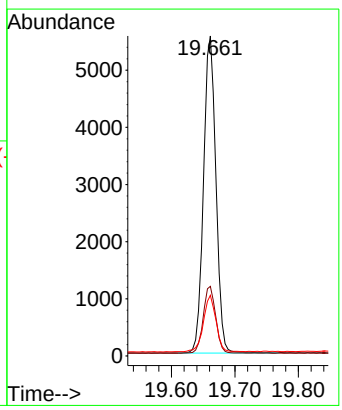


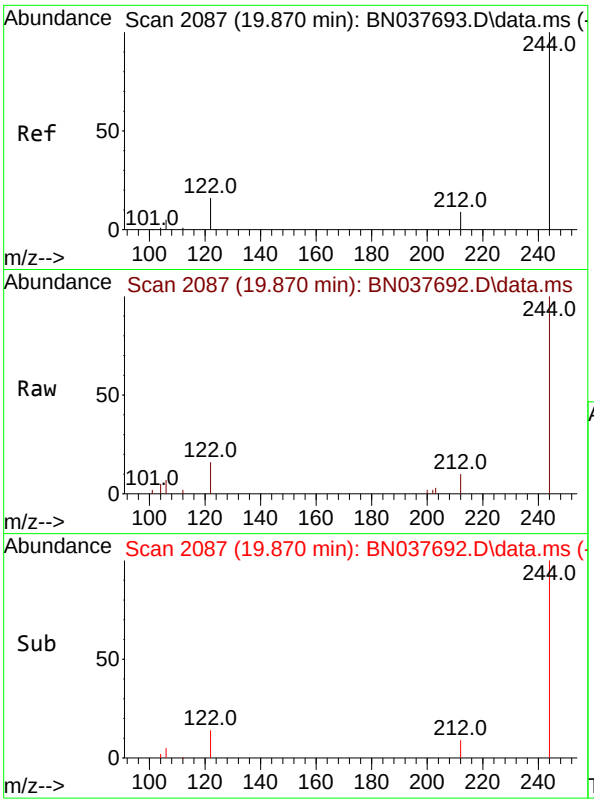


#30
Pyrene
Concen: 0.207 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:202 Resp: 7543

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	18.3	14.3	21.5



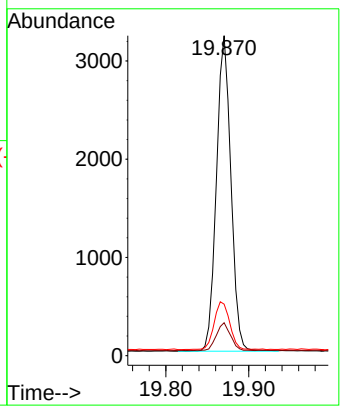


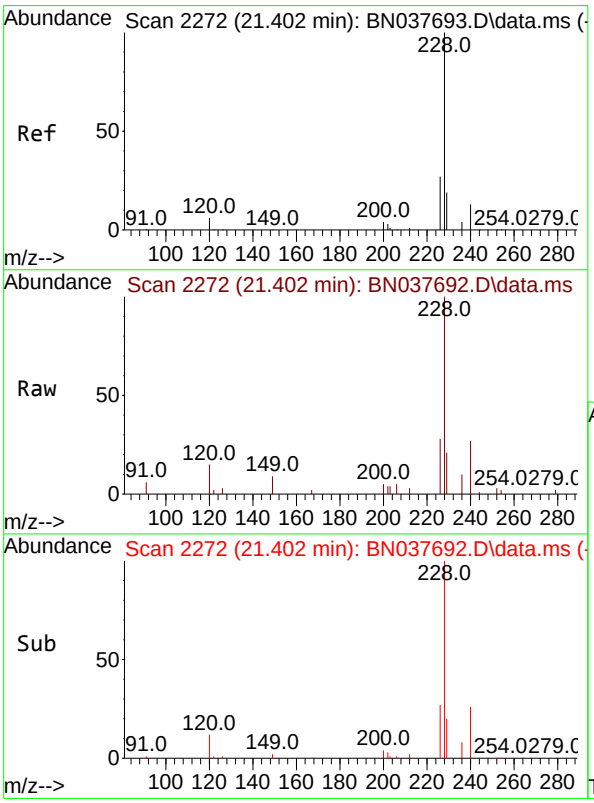
#31
Terphenyl-d14
Concen: 0.205 ng
RT: 19.870 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 3884

Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.5	11.3
122	16.1	13.2	19.8

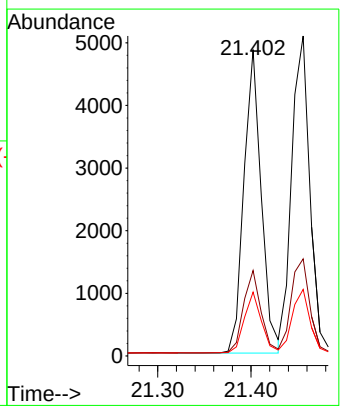


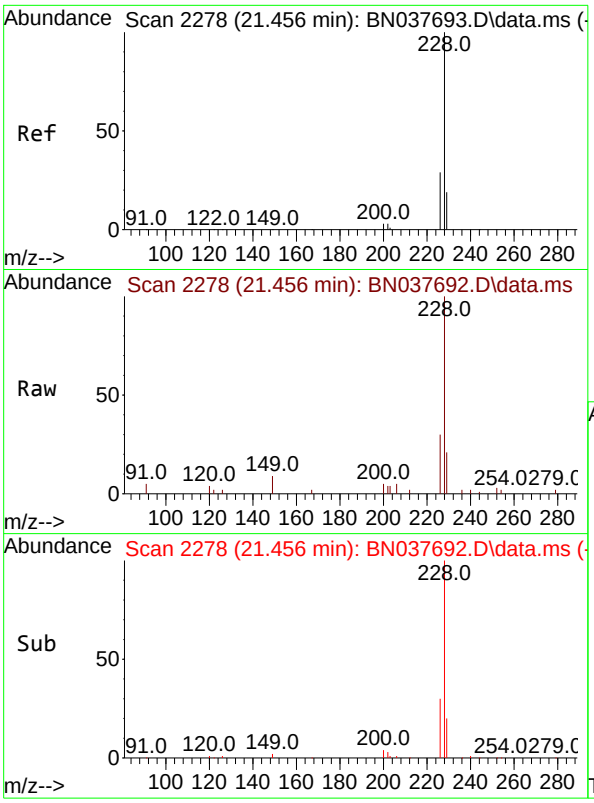


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:228 Resp: 6270

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.2
229	20.8	15.8	23.6



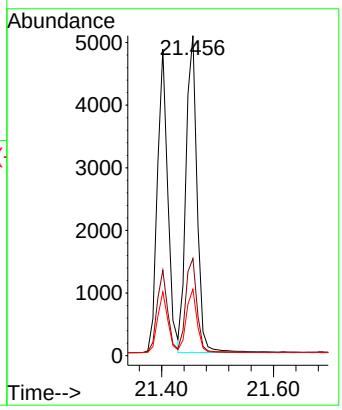


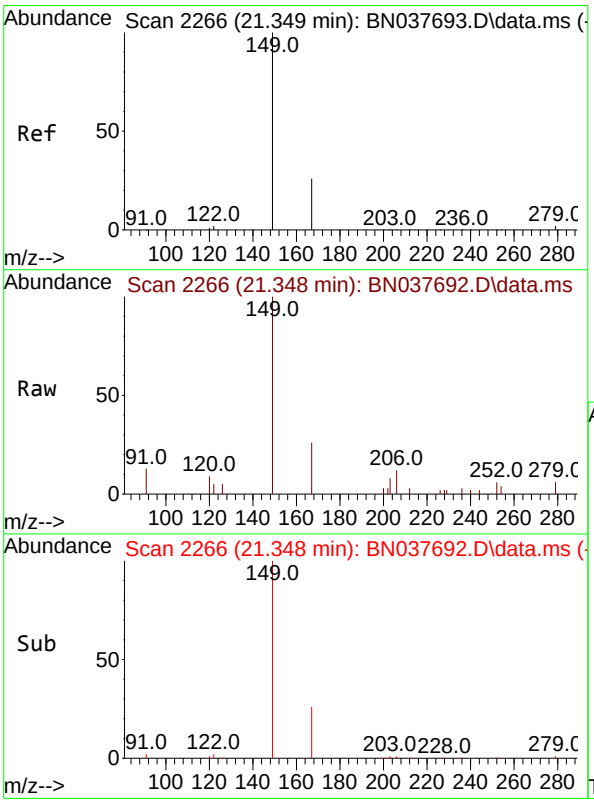
#33
Chrysene
Concen: 0.199 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 6953

Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.5	35.3
229	20.8	15.9	23.9

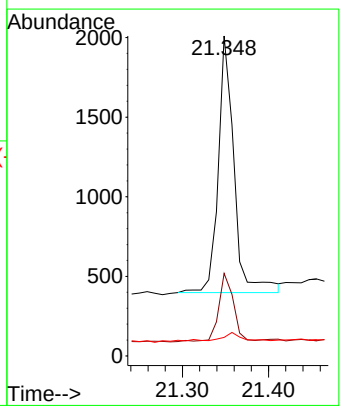


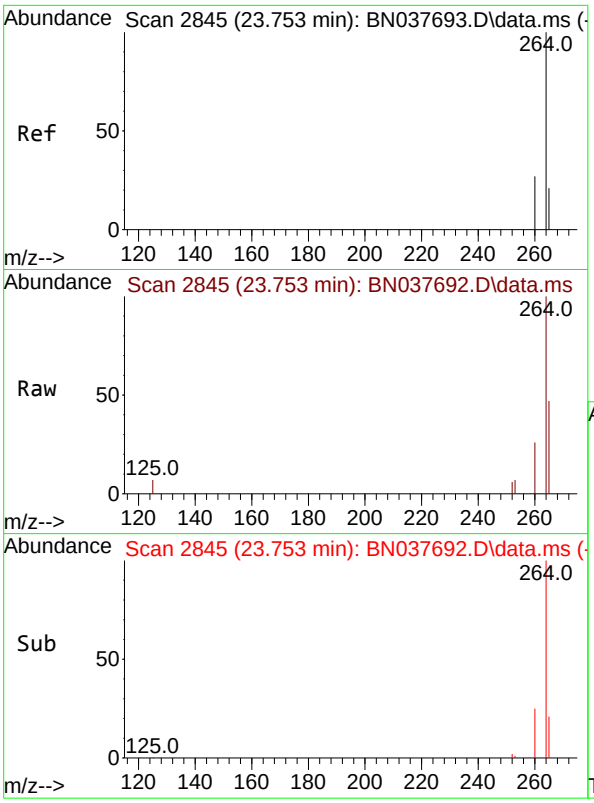


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.213 ng
RT: 21.348 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:149 Resp: 2049

Ion	Ratio	Lower	Upper
149	100		
167	24.7	20.8	31.2
279	3.1	3.3	4.9#



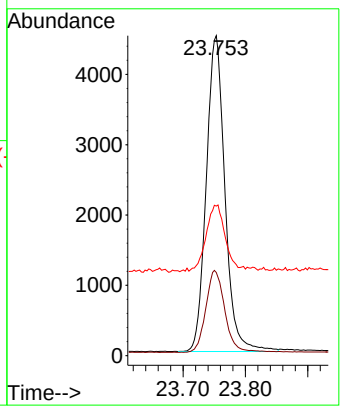


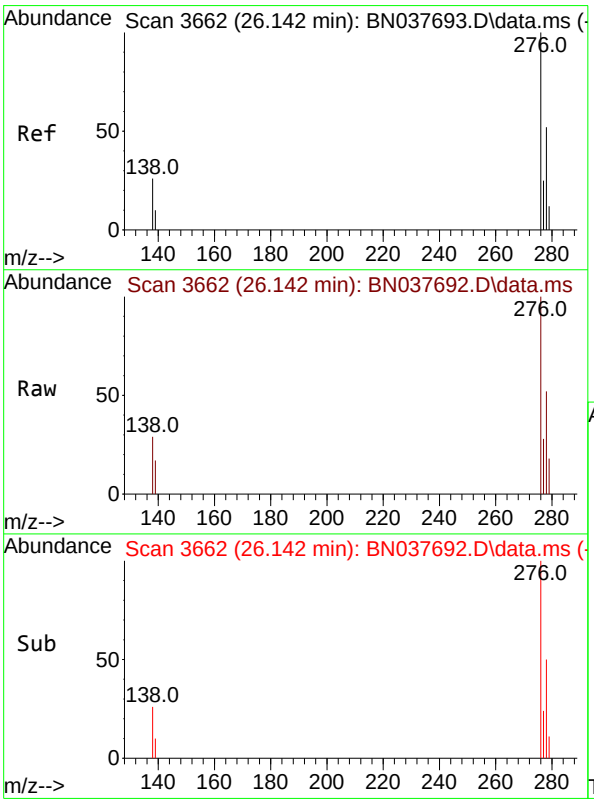
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 9364

Ion	Ratio	Lower	Upper
264	100		
260	26.0	21.8	32.8
265	46.7	39.4	59.2

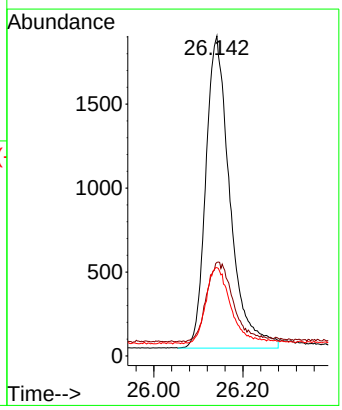


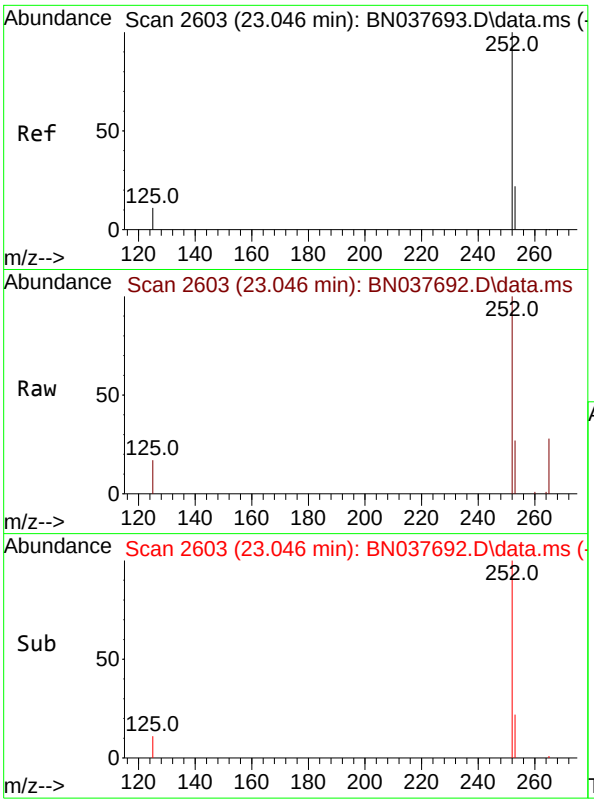


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.177 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:276 Resp: 6982

Ion	Ratio	Lower	Upper
276	100		
138	28.1	21.9	32.9
277	24.6	20.1	30.1



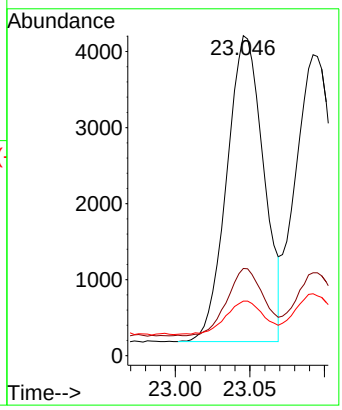


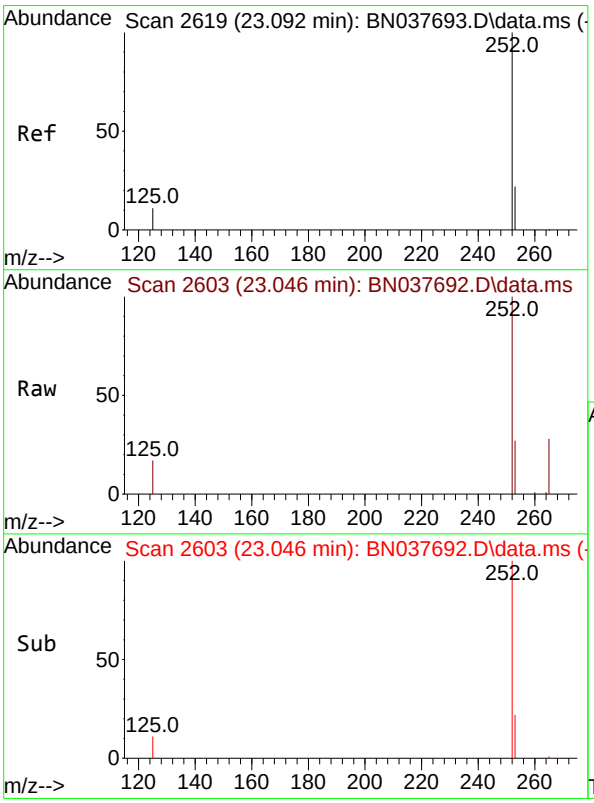
#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 23.046 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 6907

Ion	Ratio	Lower	Upper
252	100		
253	27.3	19.4	29.2
125	17.0	11.2	16.8#

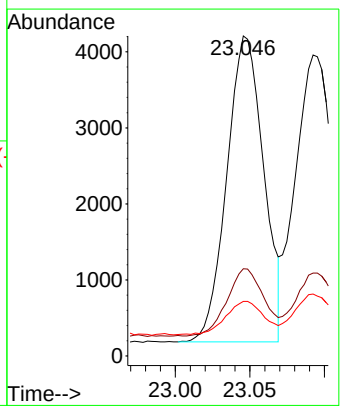


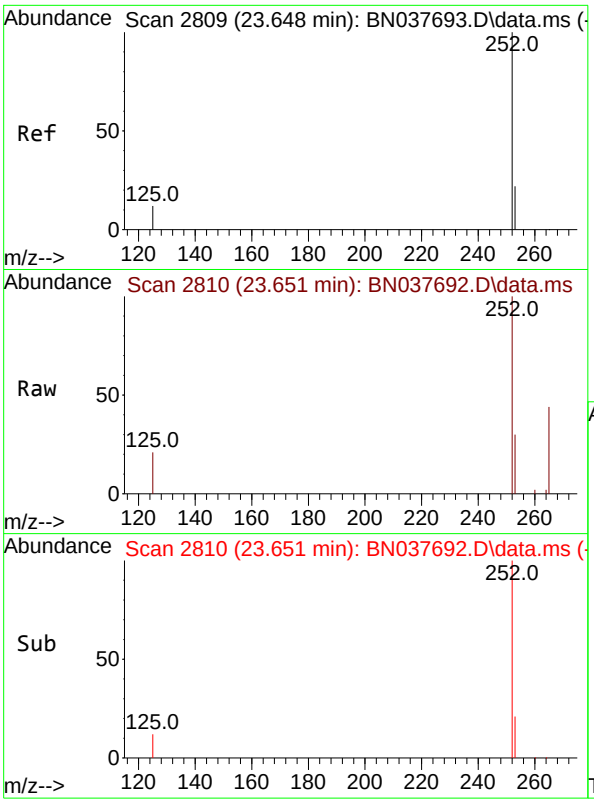


#38
Benzo(k)fluoranthene
Concen: 0.184 ng
RT: 23.046 min Scan# 2603
Delta R.T. -0.047 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:252 Resp: 6907

Ion	Ratio	Lower	Upper
252	100		
253	27.3	19.4	29.0
125	17.0	11.6	17.4



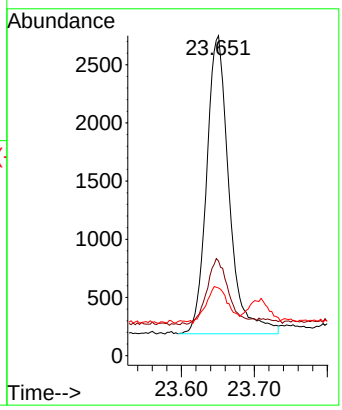


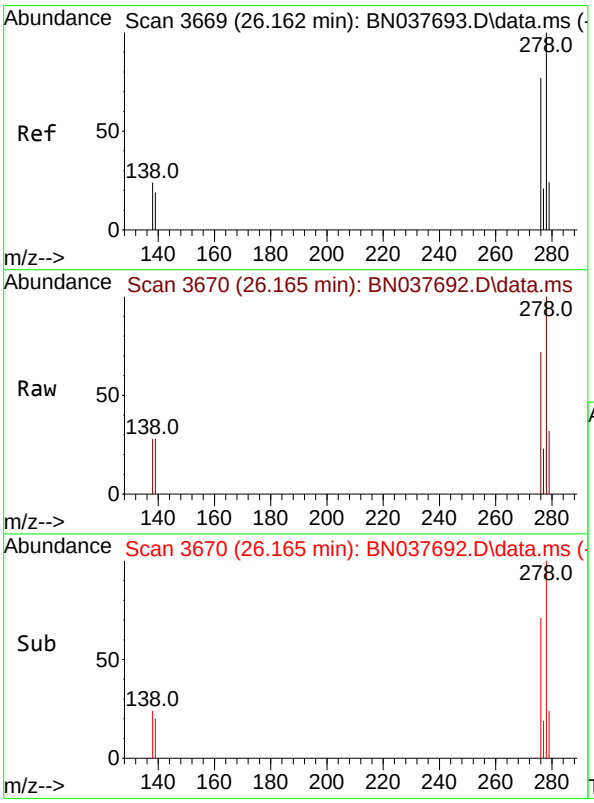
#39
Benzo(a)pyrene
Concen: 0.186 ng
RT: 23.651 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 5489

Ion	Ratio	Lower	Upper
252	100		
253	29.6	20.8	31.2
125	21.1	13.9	20.9#

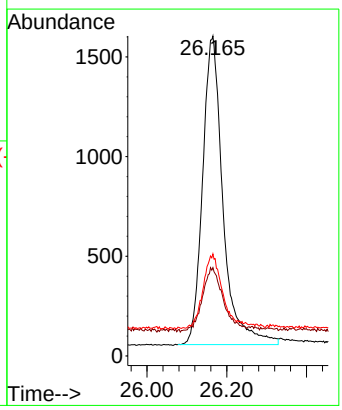


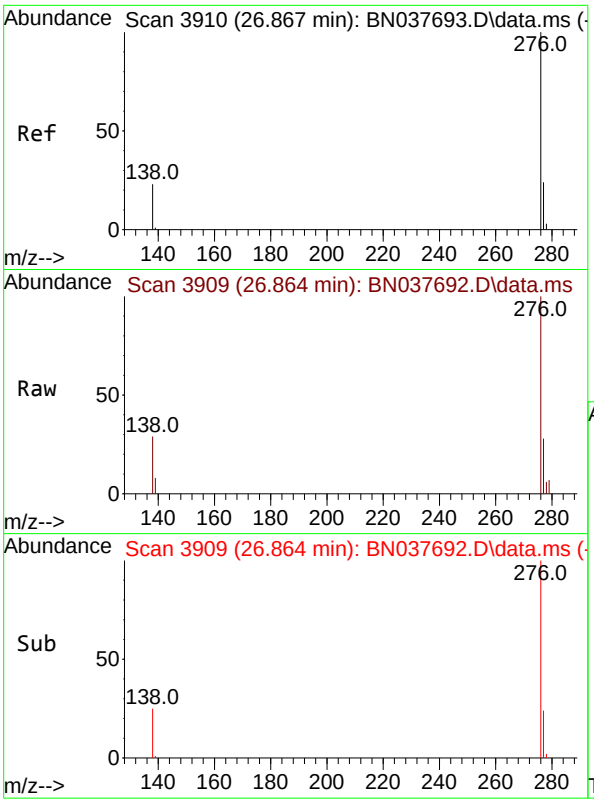


#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 26.165 min Scan# 3670
Delta R.T. 0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:278 Resp: 5503

Ion	Ratio	Lower	Upper
278	100		
139	27.6	17.8	26.6#
279	31.9	22.0	33.0



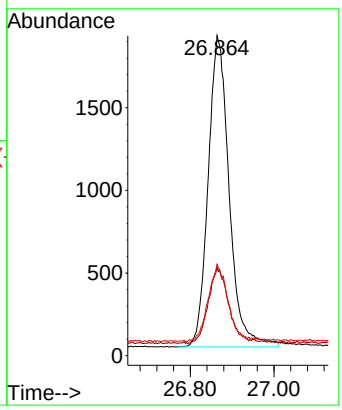


#41
Benzo(g,h,i)perylene
Concen: 0.186 ng
RT: 26.864 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 6566

Ion	Ratio	Lower	Upper
276	100		
277	27.6	20.6	31.0
138	28.6	20.2	30.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037792.D
Acq On : 19 Sep 2025 00:16
Operator : RC/JU
Sample : PB169693BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Quant Time: Sep 19 04:12:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7441	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19392	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8149	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12386	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10095	0.400	ng	0.00
35) Perylene-d12	23.738	264	10200	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	5555	0.325	ng	0.00
5) Phenol-d6	6.980	99	6563	0.296	ng	0.00
8) Nitrobenzene-d5	8.982	82	5088	0.359	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	7932	0.309	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	674	0.317	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	12492	0.367	ng	-0.01
27) Fluoranthene-d10	19.262	212	9050	0.291	ng	0.00
31) Terphenyl-d14	19.861	244	6591	0.322	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	2366	0.305	ng	# 85
3) n-Nitrosodimethylamine	3.600	42	3300	0.326	ng	# 90
6) bis(2-Chloroethyl)ether	7.248	93	6941	0.351	ng	100
9) Naphthalene	10.680	128	17810	0.336	ng	99
10) Hexachlorobutadiene	10.989	225	3379	0.352	ng	# 99
12) 2-Methylnaphthalene	12.303	142	9820	0.299	ng	99
16) Acenaphthylene	14.206	152	13377	0.358	ng	99
17) Acenaphthene	14.548	154	8509	0.337	ng	99
18) Fluorene	15.535	166	9452	0.309	ng	99
20) 4,6-Dinitro-2-methylph...	15.609	198	305	0.266	ng	# 88
21) 4-Bromophenyl-phenylether	16.428	248	2895	0.358	ng	# 92
22) Hexachlorobenzene	16.540	284	3601	0.388	ng	98
23) Atrazine	16.689	200	1710	0.333	ng	# 94
24) Pentachlorophenol	16.888	266	1388	0.515	ng	98
25) Phenanthrene	17.273	178	13505	0.346	ng	100
26) Anthracene	17.359	178	11748	0.340	ng	99
28) Fluoranthene	19.294	202	12912	0.302	ng	100
30) Pyrene	19.652	202	12854	0.325	ng	100
32) Benzo(a)anthracene	21.393	228	12540	0.356	ng	100
33) Chrysene	21.447	228	13567	0.359	ng	100
34) Bis(2-ethylhexyl)phtha...	21.331	149	3708	0.355	ng	98
36) Indeno(1,2,3-cd)pyrene	26.118	276	17423	0.407	ng	99
37) Benzo(b)fluoranthene	23.034	252	14955	0.372	ng	# 96
38) Benzo(k)fluoranthene	23.034	252	14955	0.365	ng	96
39) Benzo(a)pyrene	23.633	252	12714	0.395	ng	# 94
40) Dibenzo(a,h)anthracene	26.142	278	13475	0.394	ng	99
41) Benzo(g,h,i)perylene	26.843	276	15272	0.398	ng	99

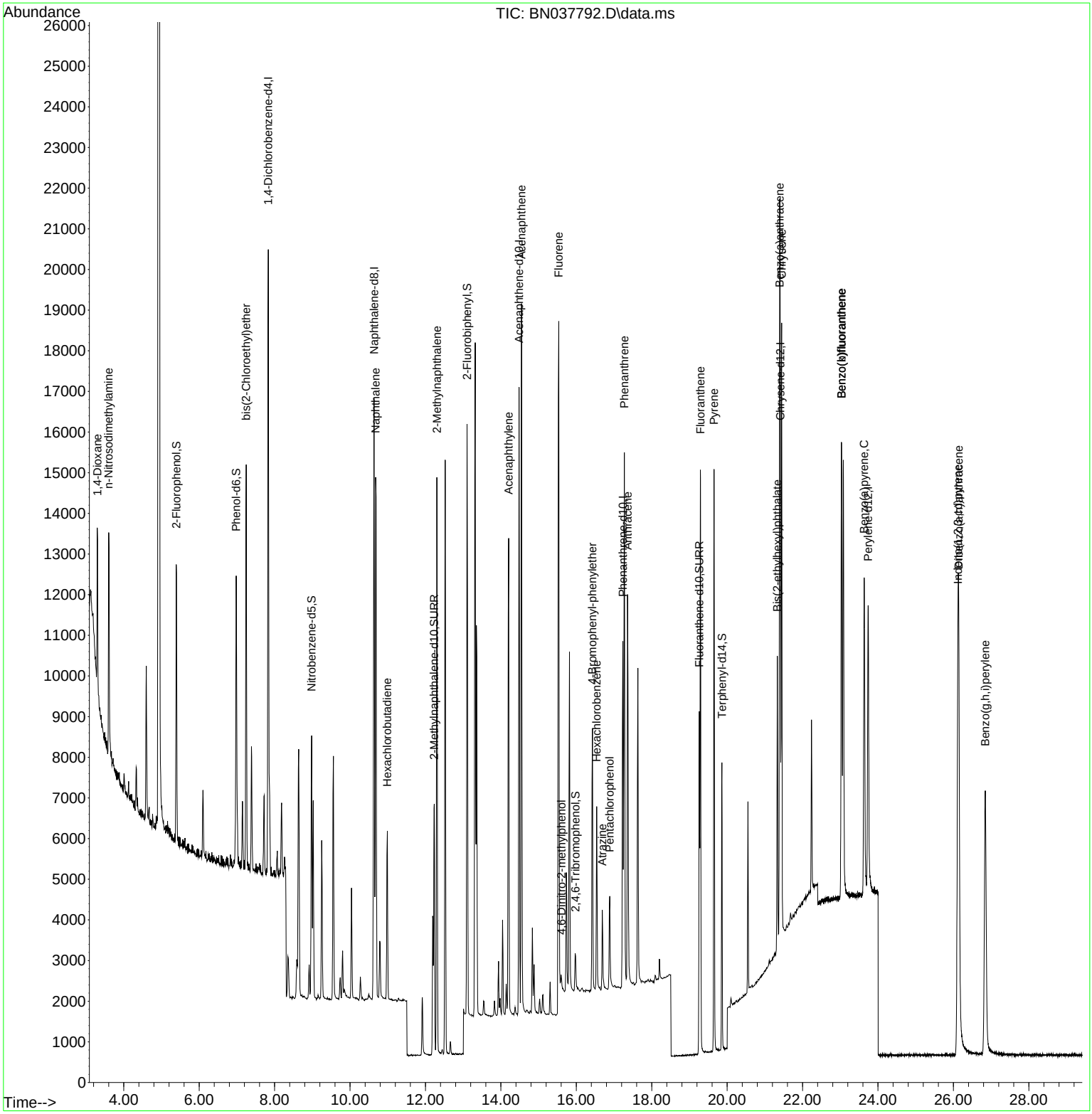
(#) = qualifier out of range (m) = manual integration (+) = signals summed

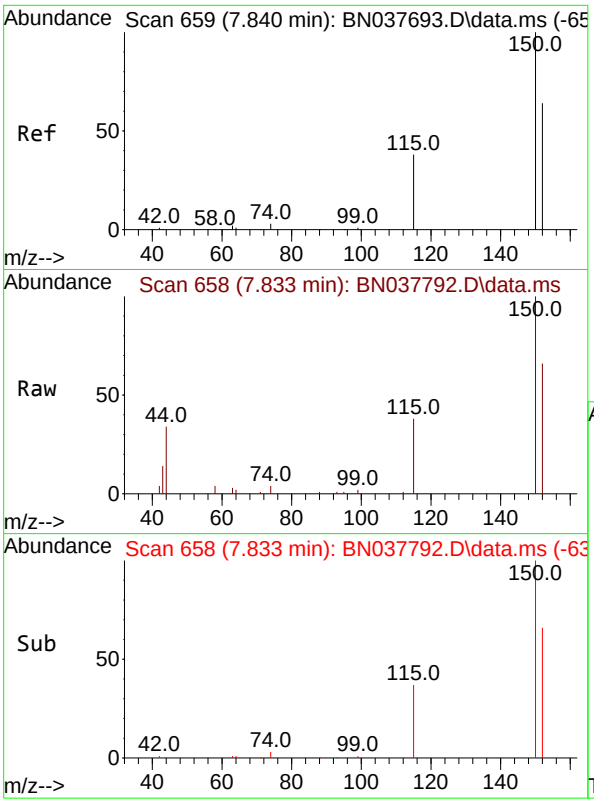
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037792.D
Acq On : 19 Sep 2025 00:16
Operator : RC/JU
Sample : PB169693BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Quant Time: Sep 19 04:12:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



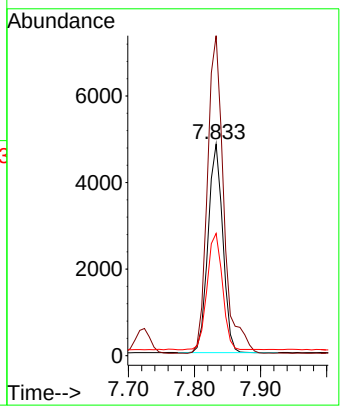


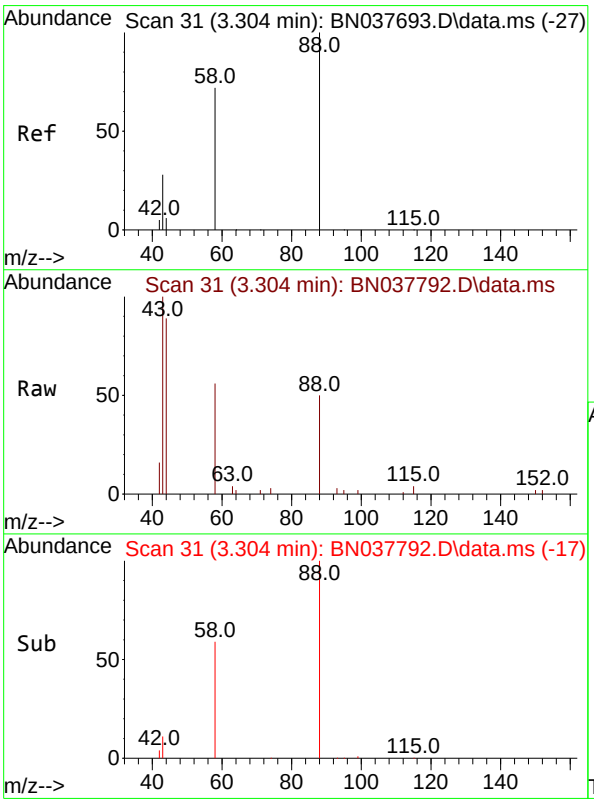
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:152 Resp: 7441

Ion	Ratio	Lower	Upper
152	100		
150	151.3	124.5	186.7
115	57.8	49.2	73.8

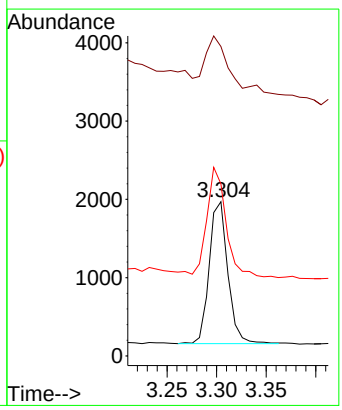


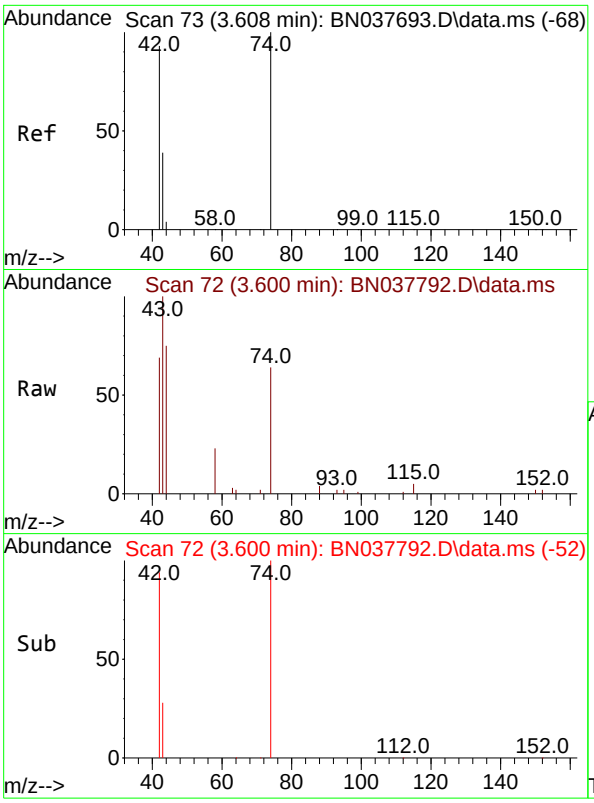


#2
1,4-Dioxane
Concen: 0.305 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 88 Resp: 2366

Ion	Ratio	Lower	Upper
88	100		
43	56.6	26.8	40.2#
58	80.3	61.9	92.9



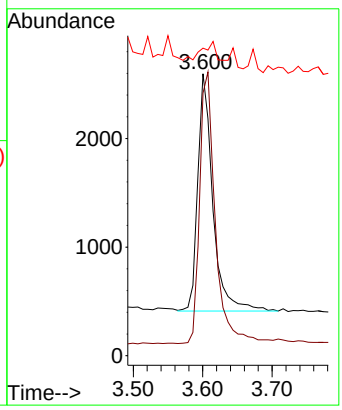


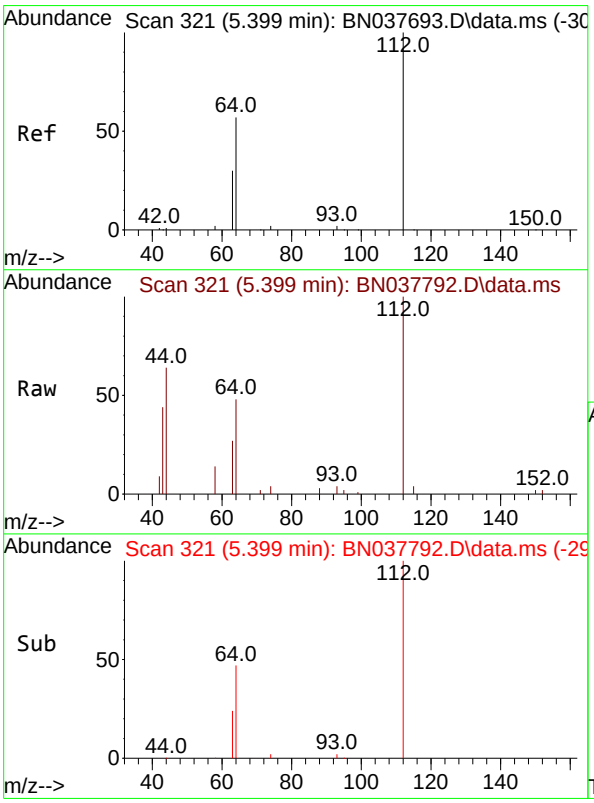
#3
n-Nitrosodimethylamine
Concen: 0.326 ng
RT: 3.600 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion: 42 Resp: 3300

Ion	Ratio	Lower	Upper
42	100		
74	118.9	86.0	129.0
44	8.3	8.4	12.6#

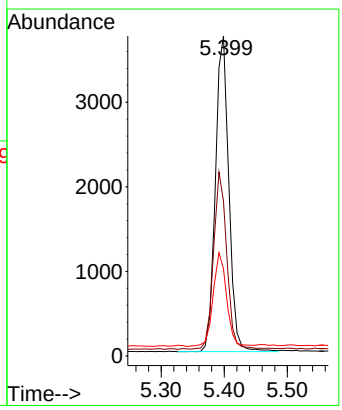


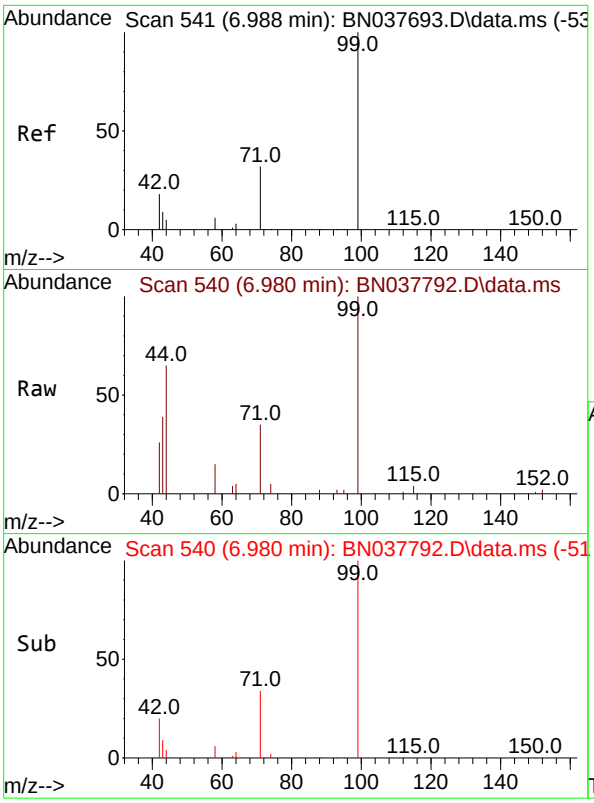


#4
2-Fluorophenol
Concen: 0.325 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:112 Resp: 5555

Ion	Ratio	Lower	Upper
112	100		
64	55.5	44.9	67.3
63	29.6	24.7	37.1



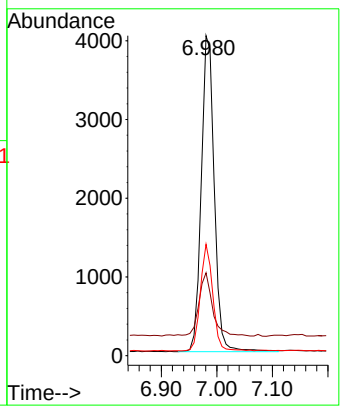


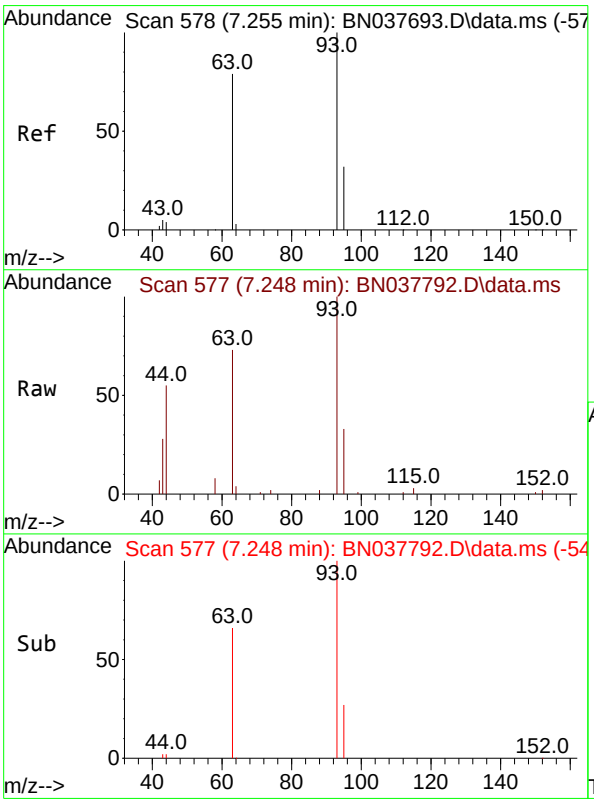
#5
Phenol-d6
Concen: 0.296 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion: 99 Resp: 6563

Ion	Ratio	Lower	Upper
99	100		
42	20.6	16.6	24.8
71	32.2	26.7	40.1

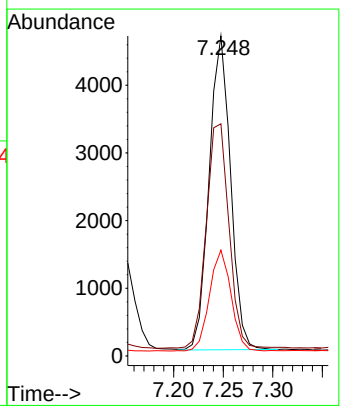


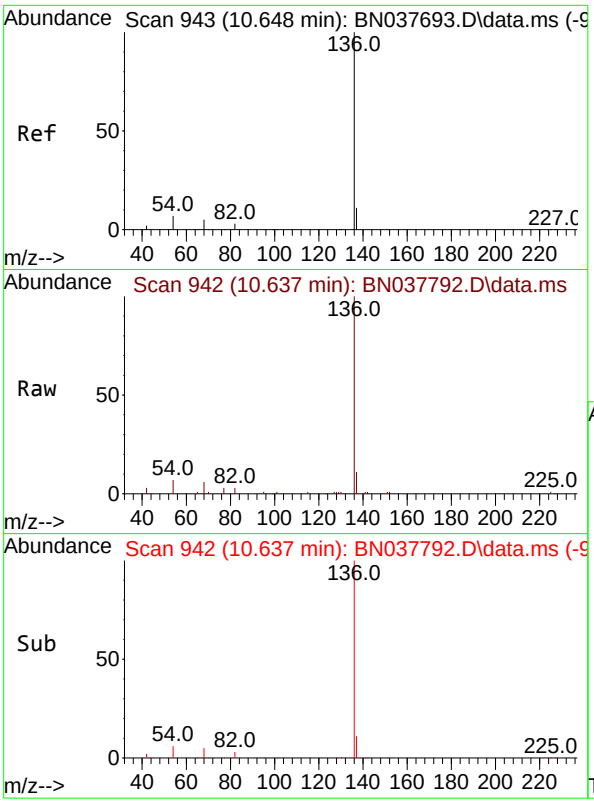


#6
bis(2-Chloroethyl)ether
Concen: 0.351 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 93 Resp: 6941

Ion	Ratio	Lower	Upper
93	100		
63	76.1	60.6	90.8
95	32.6	26.0	39.0



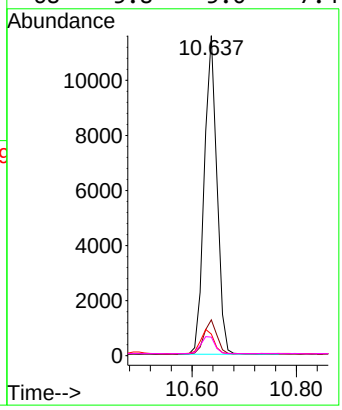


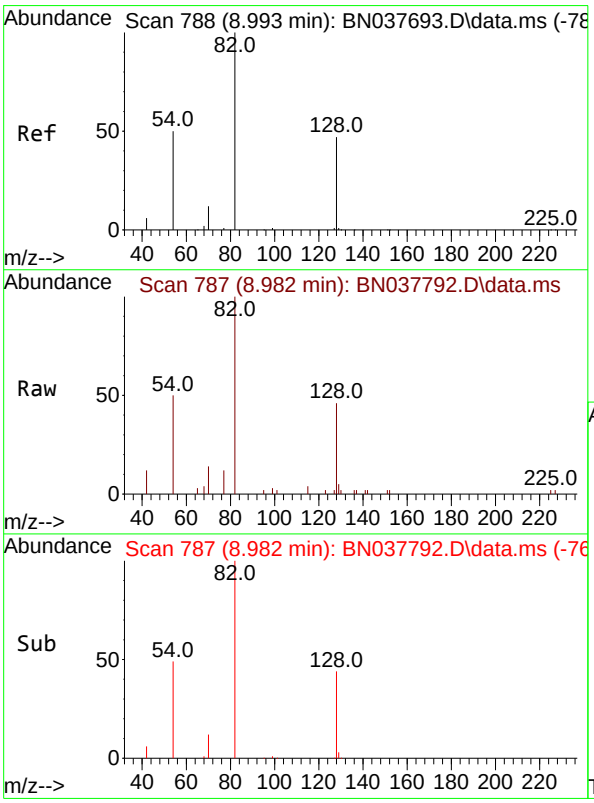
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:136 Resp: 19392

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.8	6.3	9.5
68	5.8	5.0	7.4

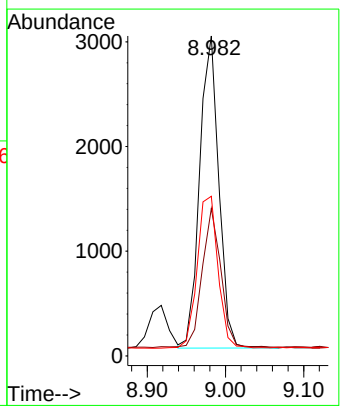


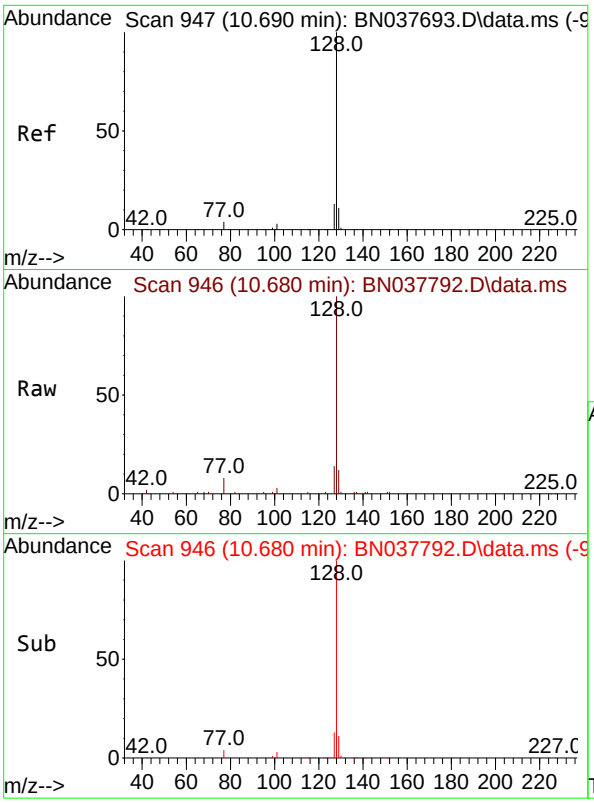


#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 82 Resp: 5088

Ion	Ratio	Lower	Upper
82	100		
128	46.1	38.3	57.5
54	49.9	41.4	62.2



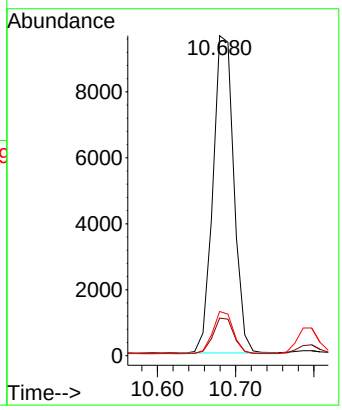


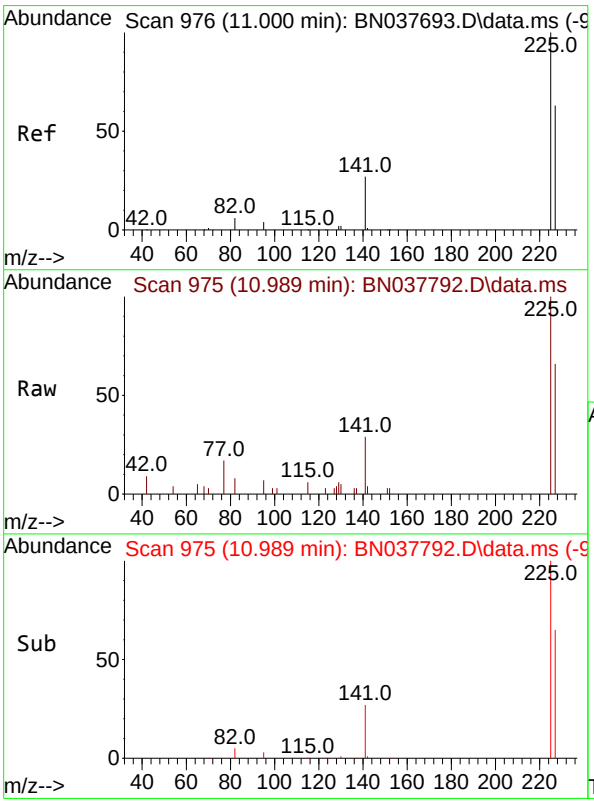
#9
Naphthalene
Concen: 0.336 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:128 Resp: 17810

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.1	13.7
127	13.8	10.9	16.3

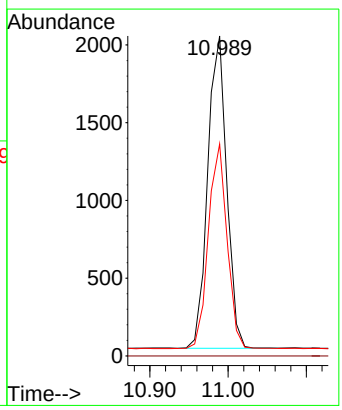


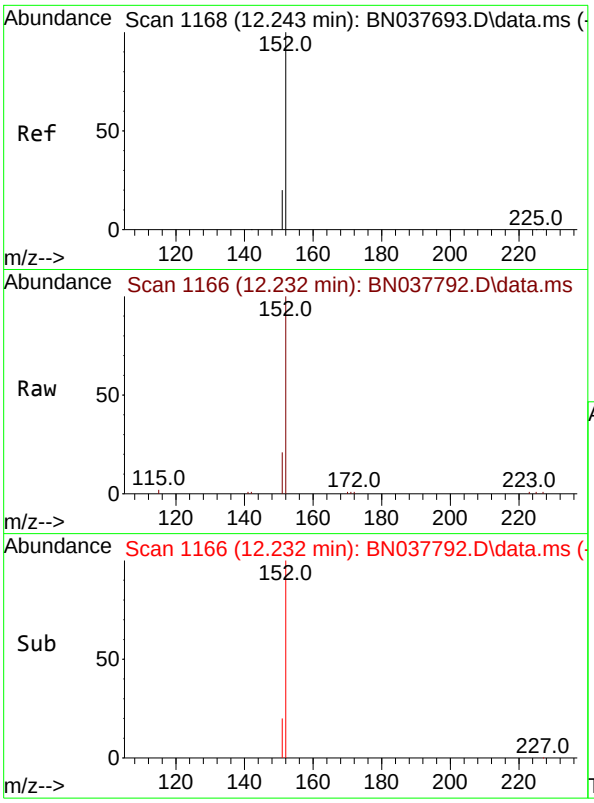


#10
Hexachlorobutadiene
Concen: 0.352 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:225 Resp: 3379

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.5	50.9	76.3



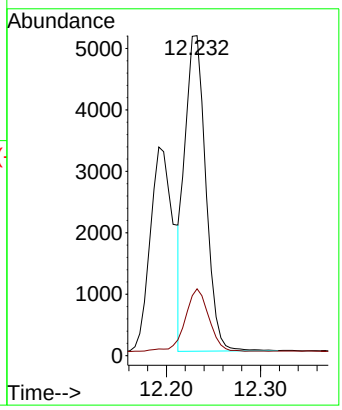


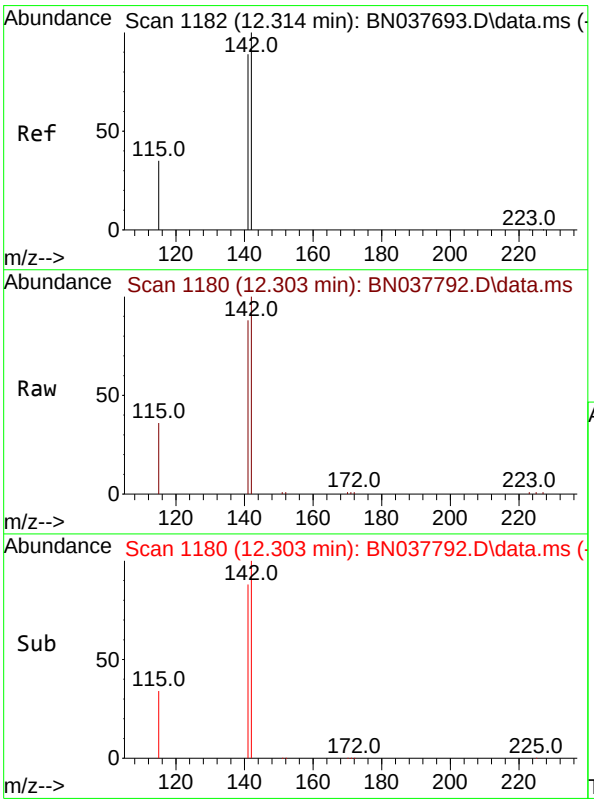
#11
2-Methylnaphthalene-d10
Concen: 0.309 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:152 Resp: 7932

Ion	Ratio	Lower	Upper
152	100		
151	22.6	17.0	25.6

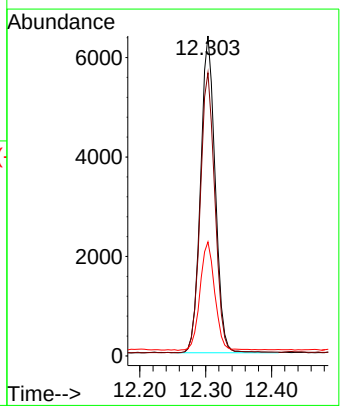


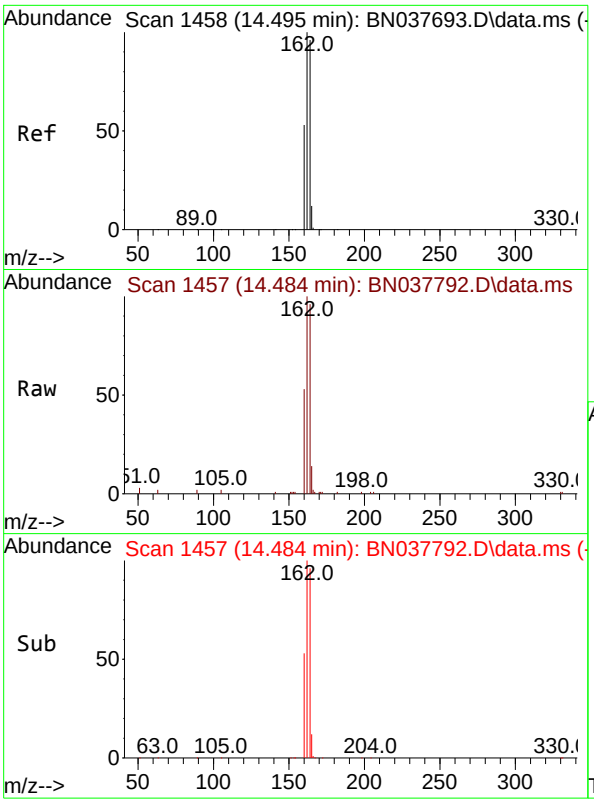


#12
2-Methylnaphthalene
Concen: 0.299 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:142 Resp: 9820

Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.6	107.4
115	35.7	28.6	43.0



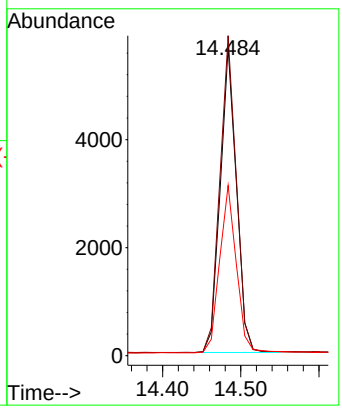


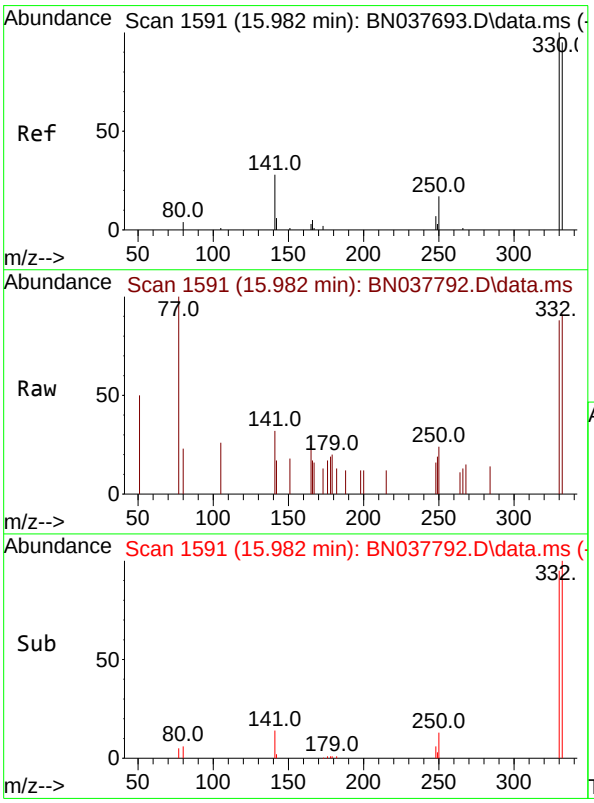
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:164 Resp: 8149

Ion	Ratio	Lower	Upper
164	100		
162	103.7	83.1	124.7
160	55.2	44.3	66.5

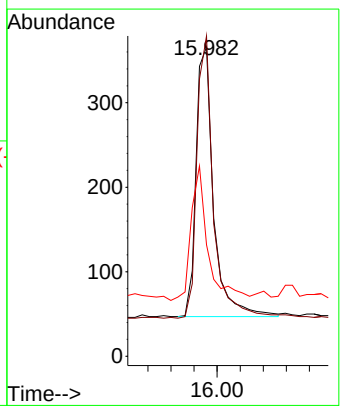


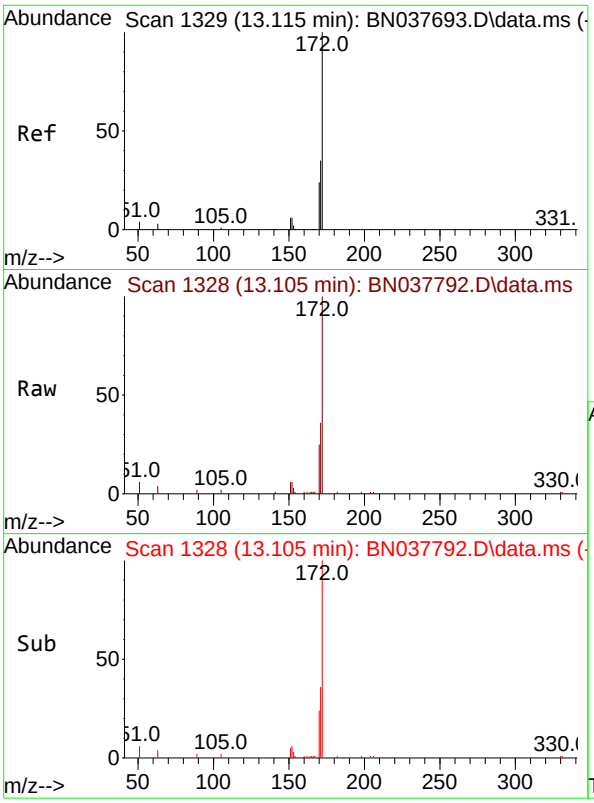


#14
2,4,6-Tribromophenol
Concen: 0.317 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:330 Resp: 674

Ion	Ratio	Lower	Upper
330	100		
332	99.4	75.3	112.9
141	47.6	35.0	52.4



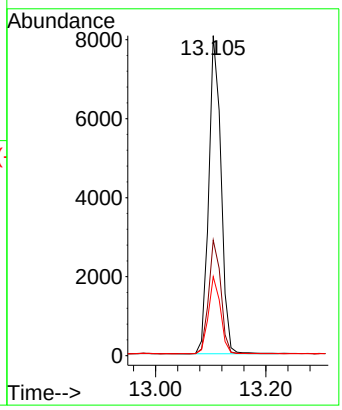


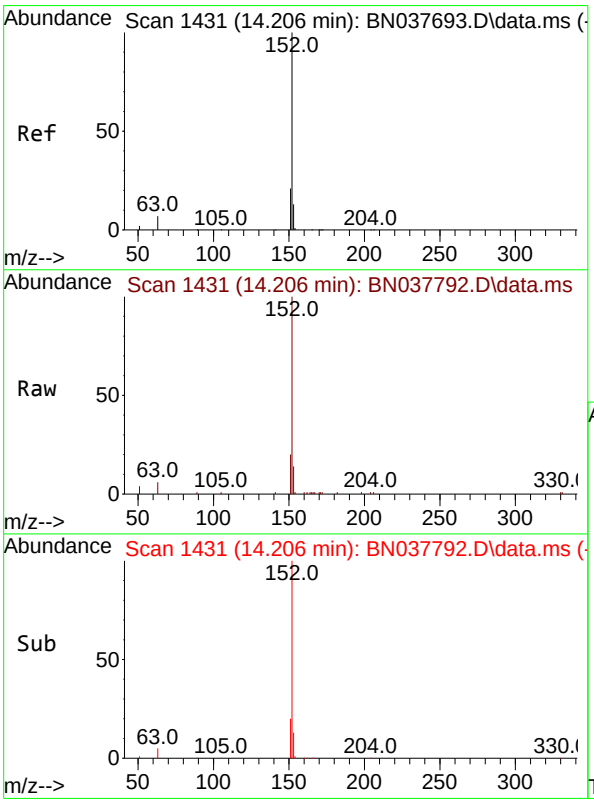
#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:172 Resp: 12492

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.6	43.0
170	24.7	19.8	29.8

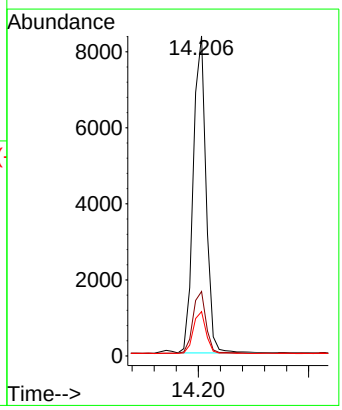


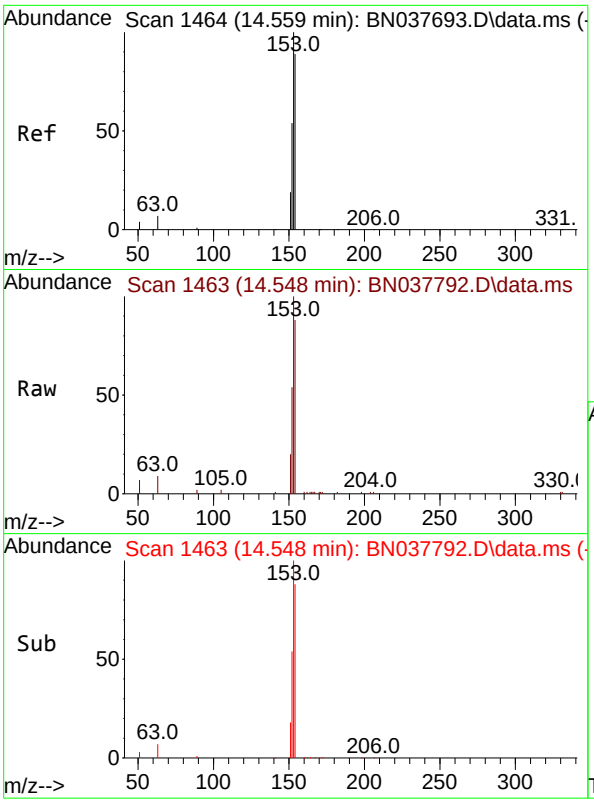


#16
Acenaphthylene
Concen: 0.358 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:152 Resp: 13377

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.4	10.4	15.6



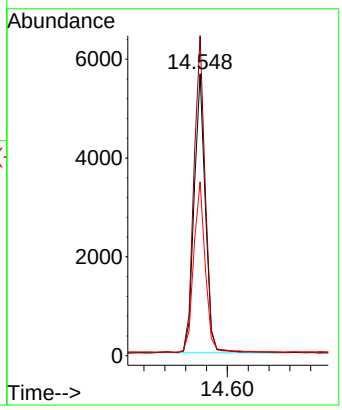


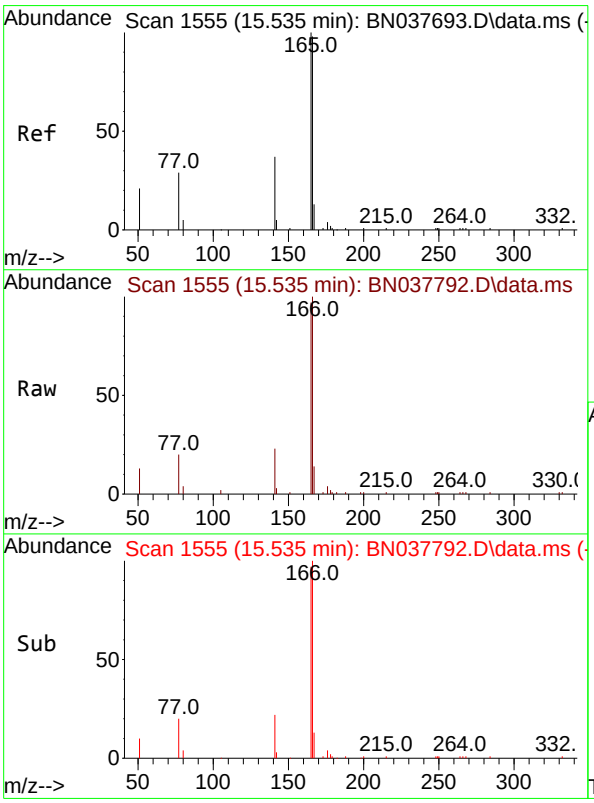
#17
Acenaphthene
Concen: 0.337 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:154 Resp: 8509

Ion	Ratio	Lower	Upper
154	100		
153	113.0	89.8	134.8
152	62.9	50.2	75.2

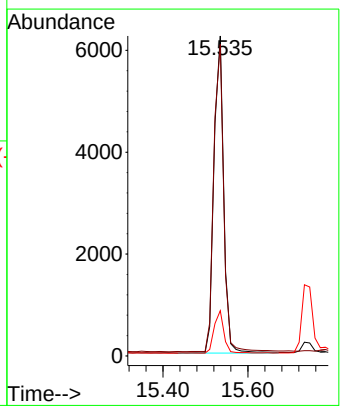


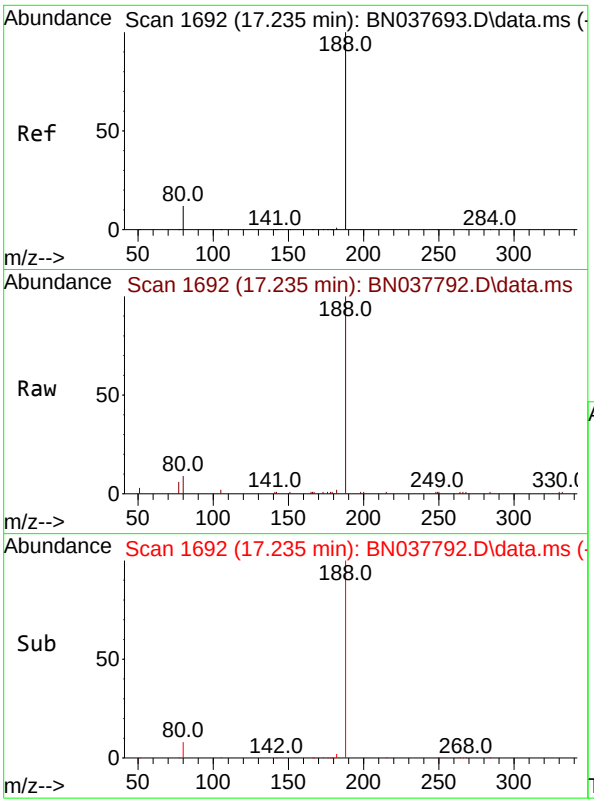


#18
Fluorene
Concen: 0.309 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:166 Resp: 9452

Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.6	119.4
167	13.9	10.6	16.0



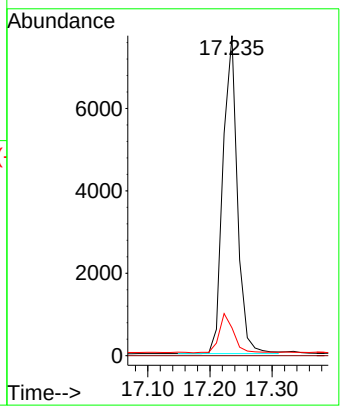


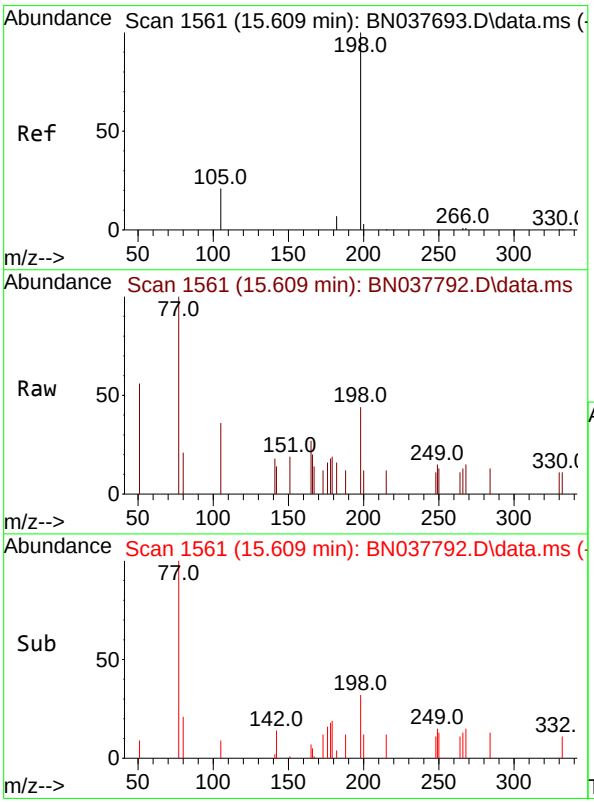
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:188 Resp: 12386

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.7	10.6	15.8#

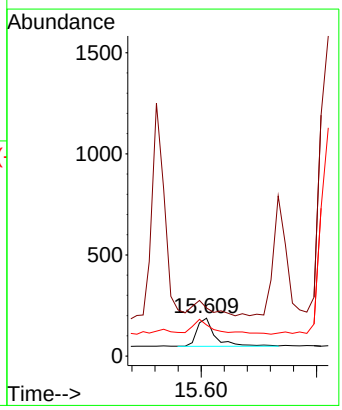


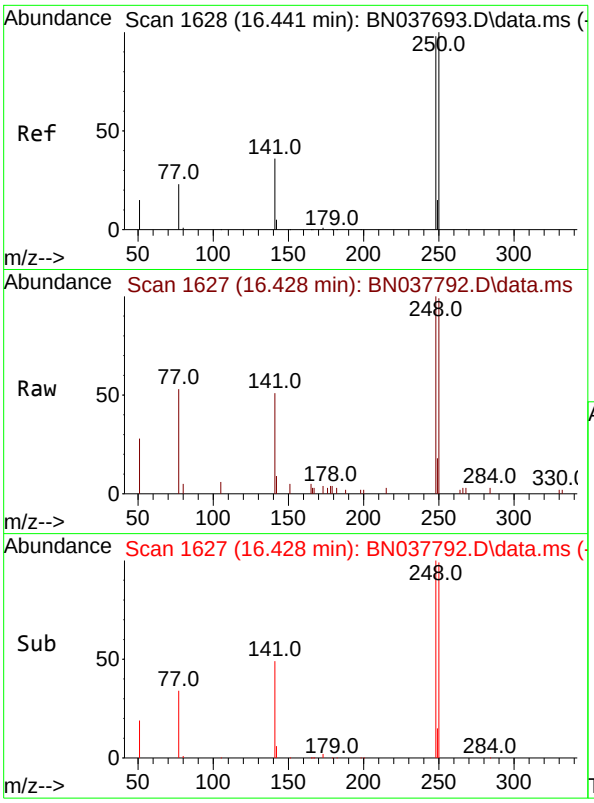


#20
4,6-Dinitro-2-methylphenol
Concen: 0.266 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:198 Resp: 305

Ion	Ratio	Lower	Upper
198	100		
51	127.3	95.1	142.7
105	82.4	53.8	80.6#



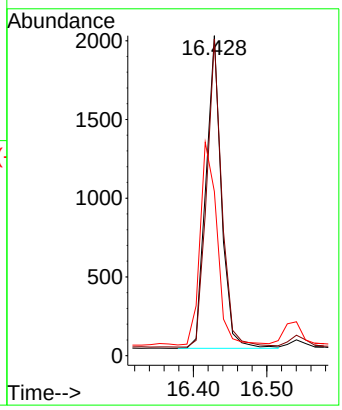


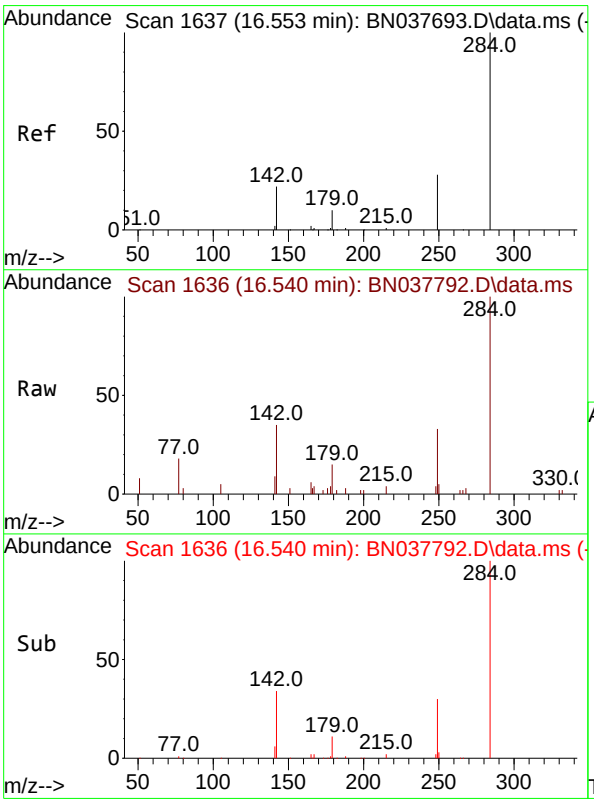
#21
4-Bromophenyl-phenylether
Concen: 0.358 ng
RT: 16.428 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:248 Resp: 2895

Ion	Ratio	Lower	Upper
248	100		
250	99.0	81.5	122.3
141	51.3	30.8	46.2#

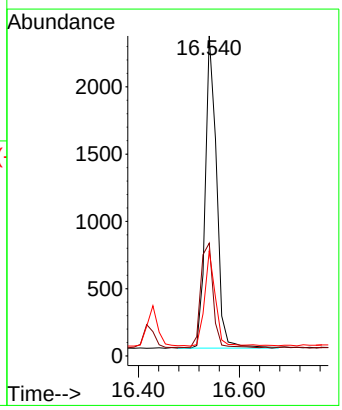


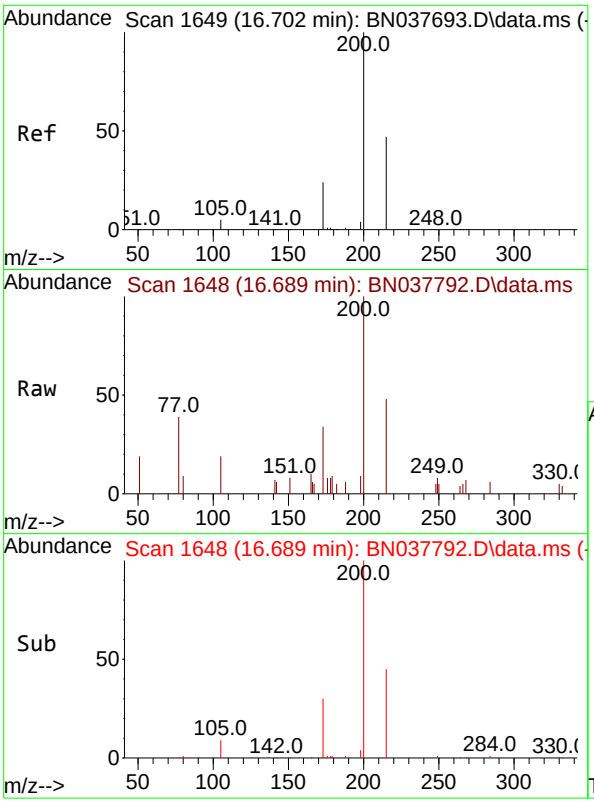


#22
Hexachlorobenzene
Concen: 0.388 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:284 Resp: 3601

Ion	Ratio	Lower	Upper
284	100		
142	37.9	30.9	46.3
249	28.9	24.8	37.2



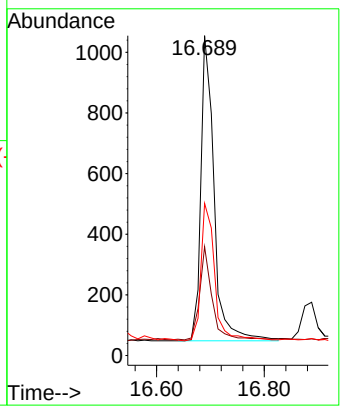


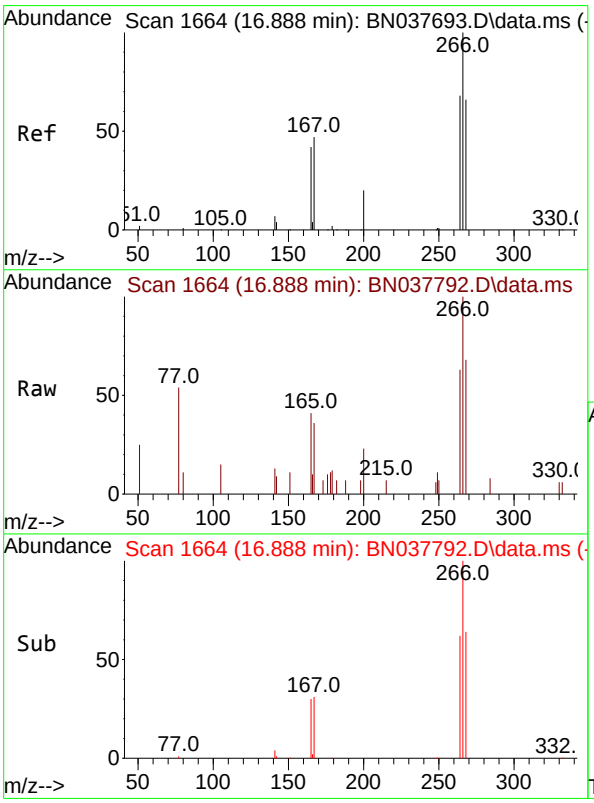
#23
Atrazine
Concen: 0.333 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:200 Resp: 1710

Ion	Ratio	Lower	Upper
200	100		
173	34.0	21.4	32.2#
215	47.6	39.2	58.8

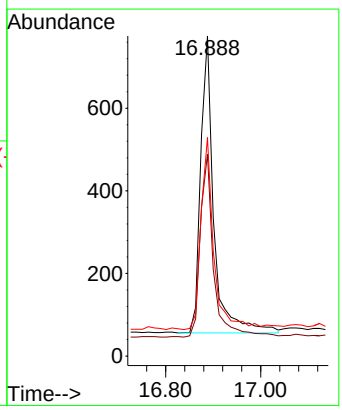


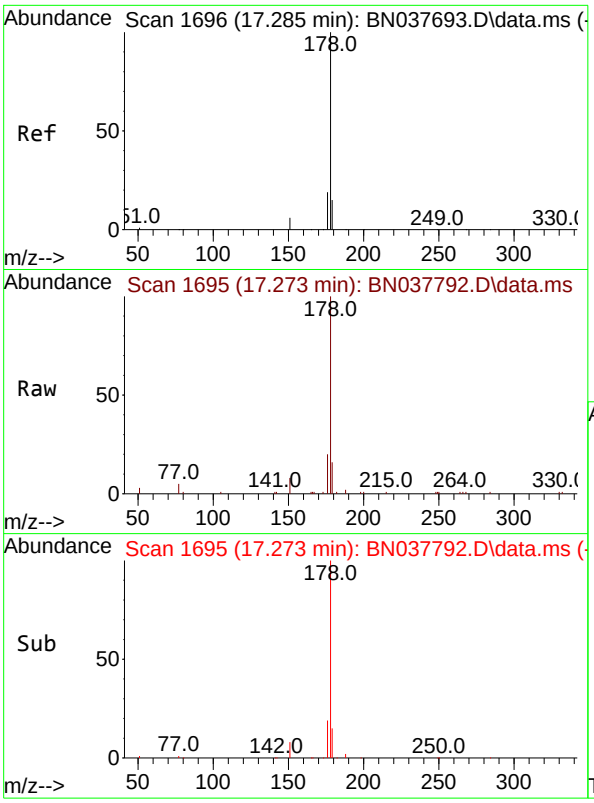


#24
Pentachlorophenol
Concen: 0.515 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:266 Resp: 1388

Ion	Ratio	Lower	Upper
266	100		
264	62.3	51.6	77.4
268	65.3	53.2	79.8



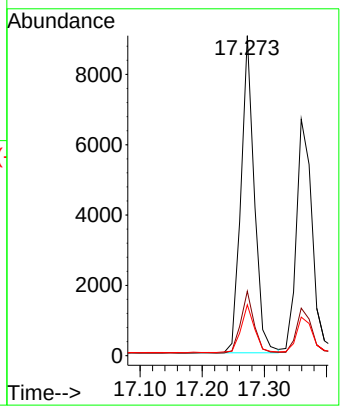


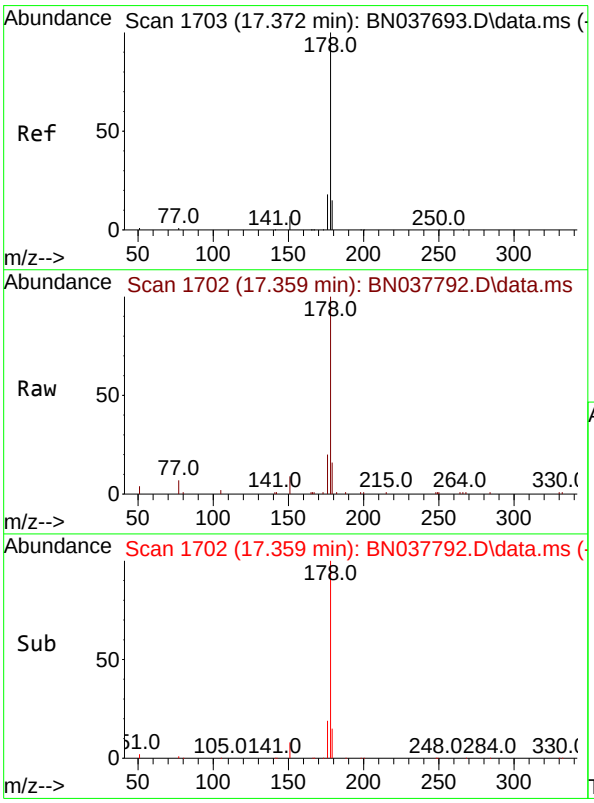
#25
Phenanthrene
Concen: 0.346 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:178 Resp: 13505

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.3	22.9
179	15.3	12.2	18.2

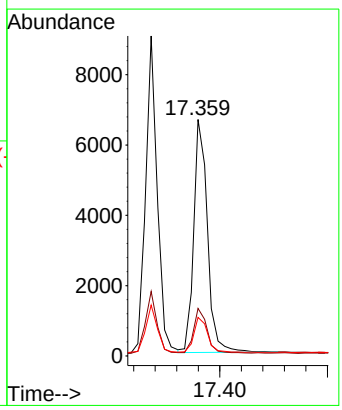


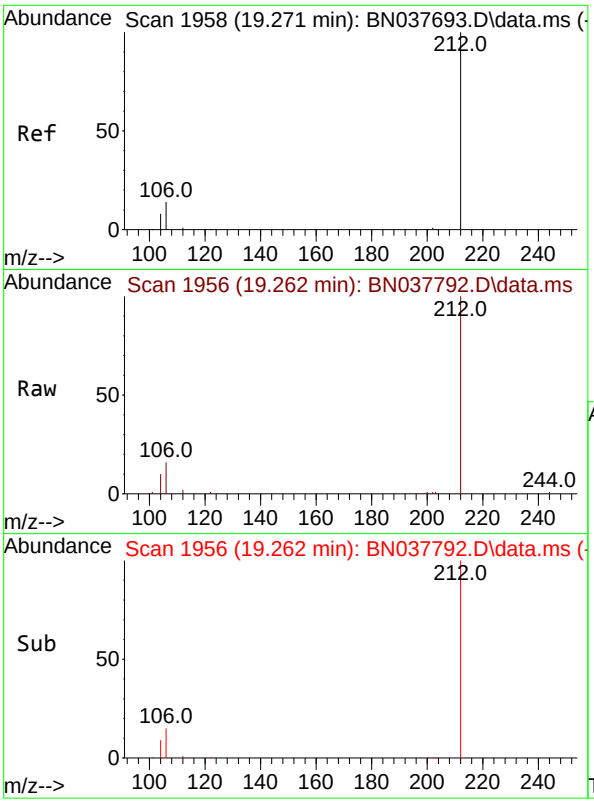


#26
Anthracene
Concen: 0.340 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:178 Resp: 11748

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.6	22.0
179	15.4	12.2	18.4



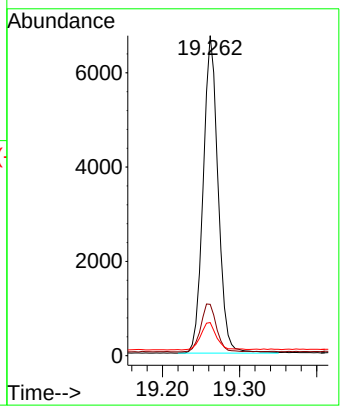


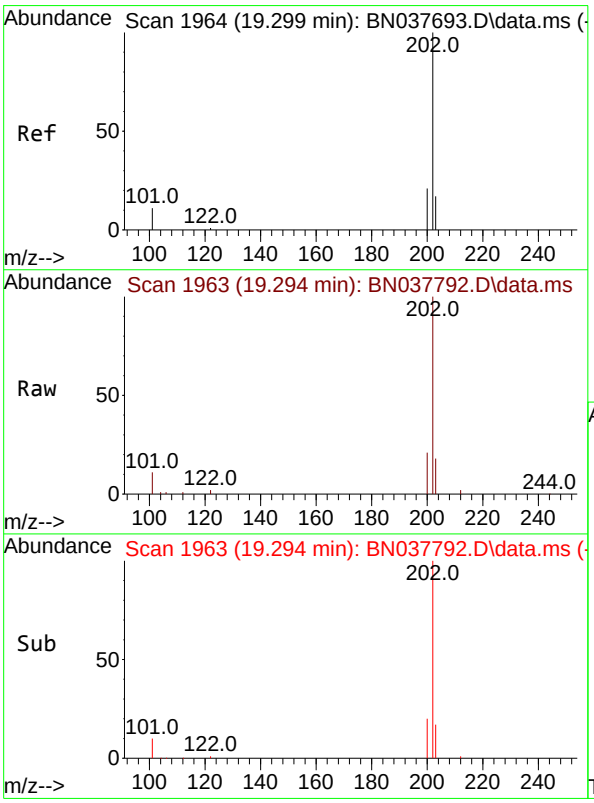
#27
Fluoranthene-d10
Concen: 0.291 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:212 Resp: 9050

Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.2	18.2
104	9.2	6.9	10.3

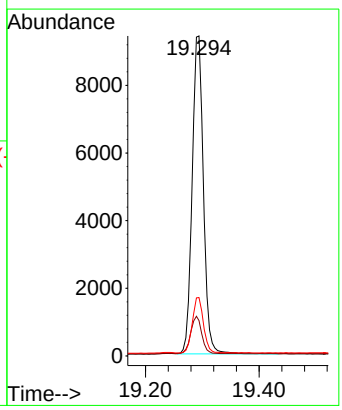


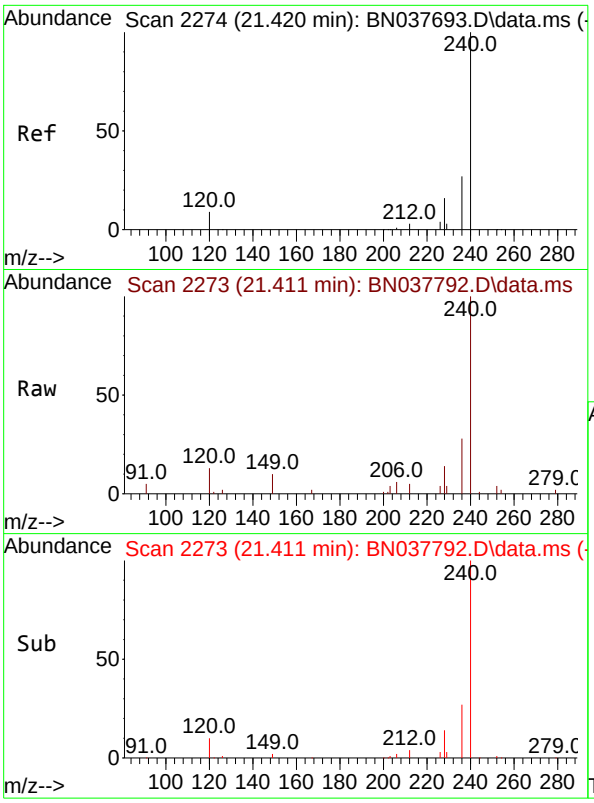


#28
Fluoranthene
Concen: 0.302 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:202 Resp: 12912

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.3	13.9
203	17.3	13.7	20.5



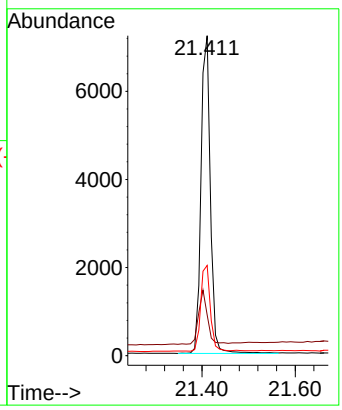


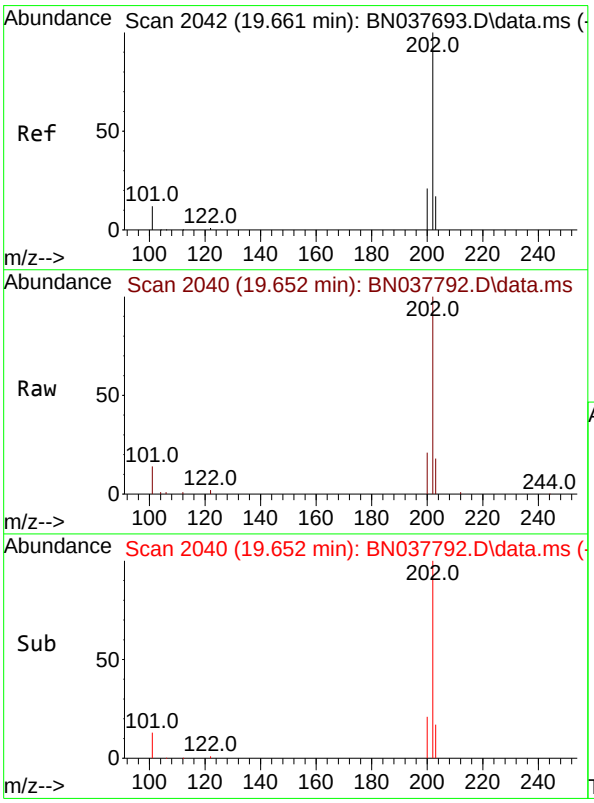
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:240 Resp: 10095

Ion	Ratio	Lower	Upper
240	100		
120	12.7	9.2	13.8
236	28.2	22.6	33.8

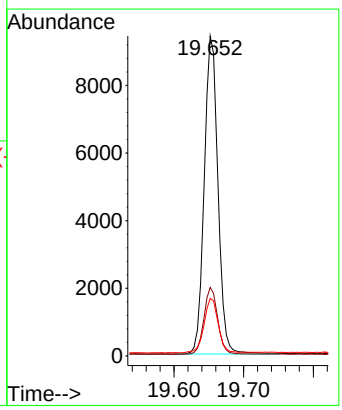


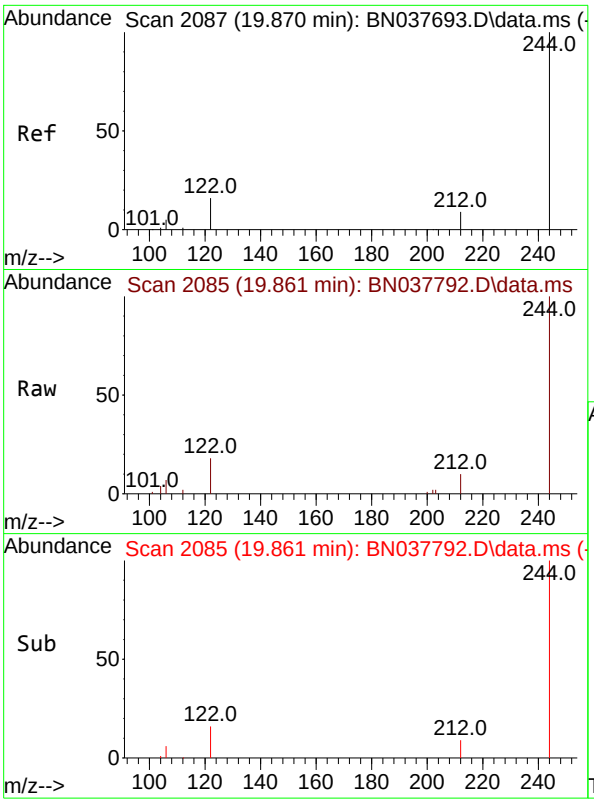


#30
Pyrene
Concen: 0.325 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:202 Resp: 12854

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.5	14.3	21.5



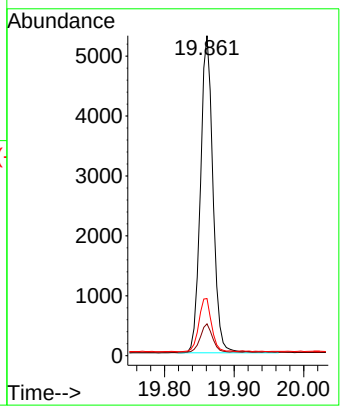


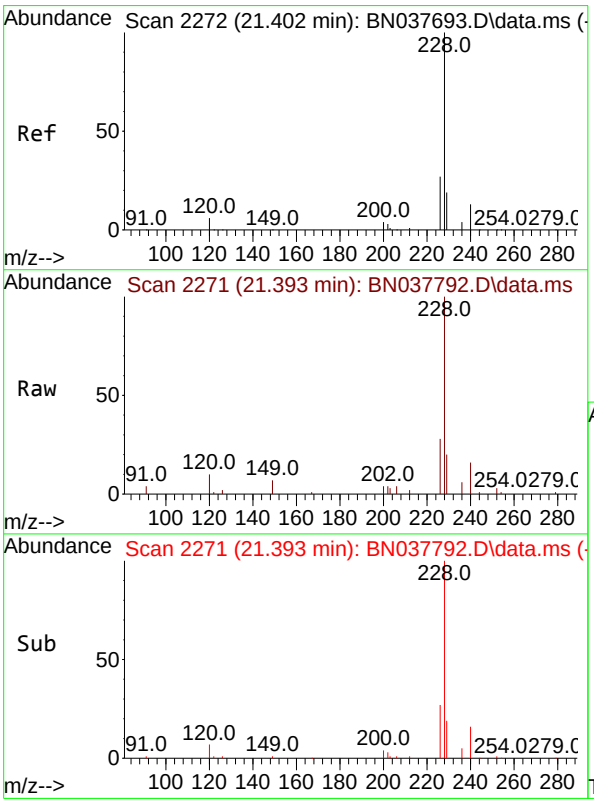
#31
Terphenyl-d14
Concen: 0.322 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:244 Resp: 6591

Ion	Ratio	Lower	Upper
244	100		
212	10.0	7.5	11.3
122	17.8	13.2	19.8

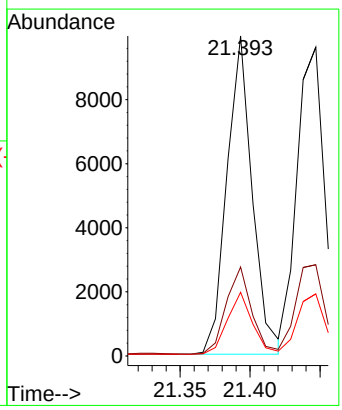


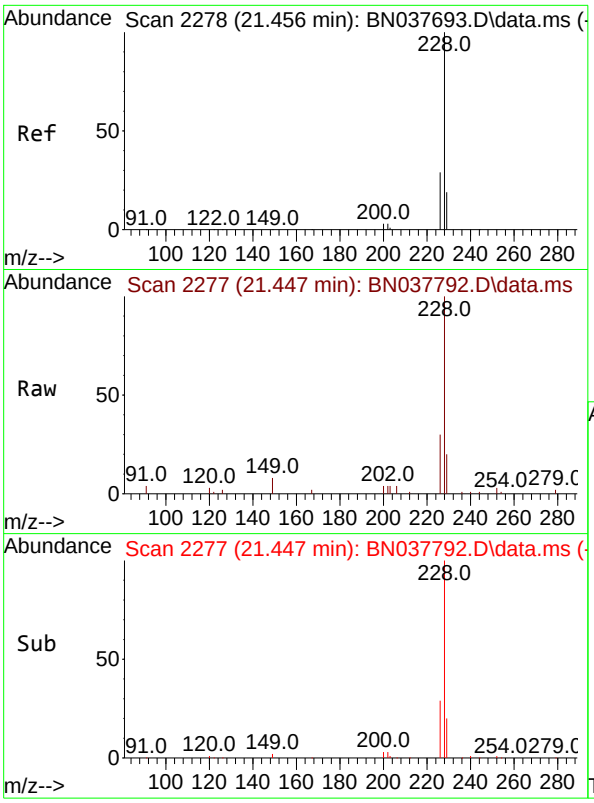


#32
Benzo(a)anthracene
Concen: 0.356 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:228 Resp: 12540

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.2	33.2
229	19.9	15.8	23.6



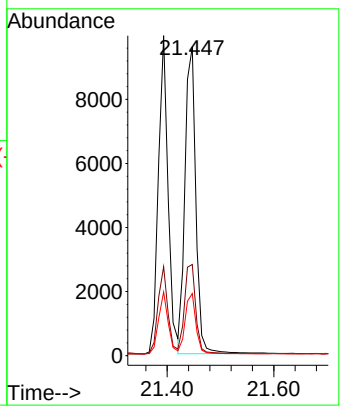


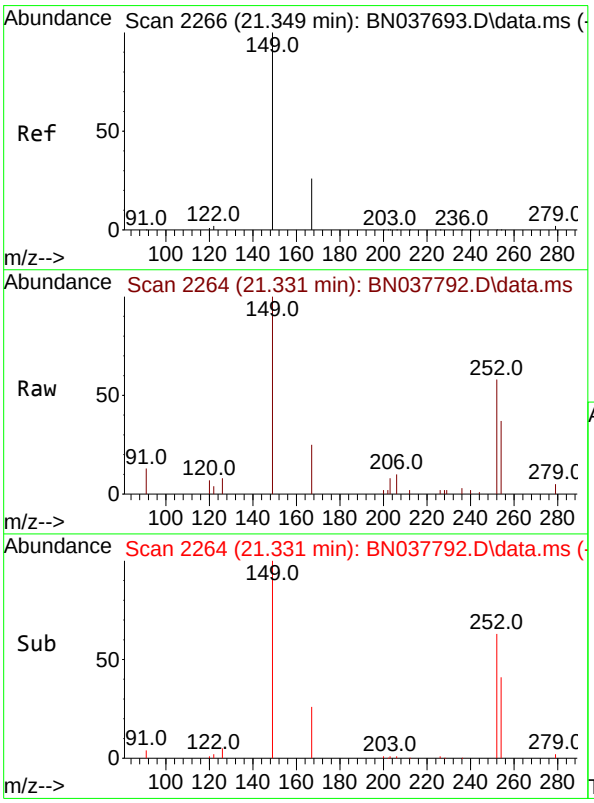
#33
Chrysene
Concen: 0.359 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:228 Resp: 13567

Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.5	35.3
229	20.1	15.9	23.9

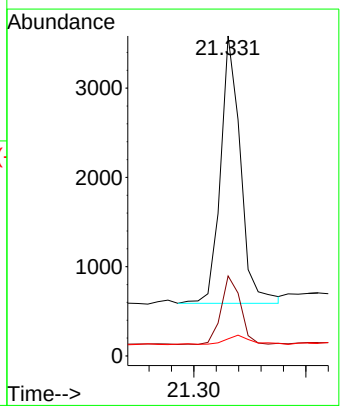


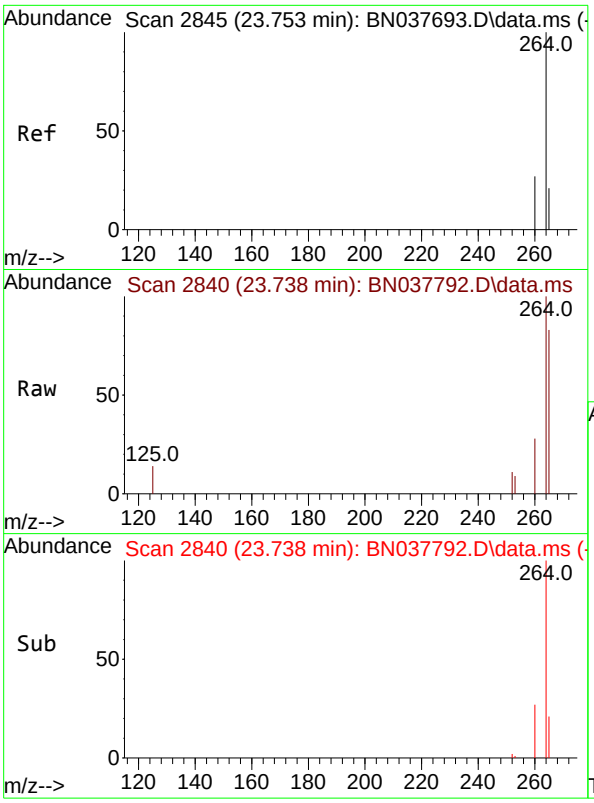


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.355 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:149 Resp: 3708

Ion	Ratio	Lower	Upper
149	100		
167	25.0	20.8	31.2
279	4.3	3.3	4.9



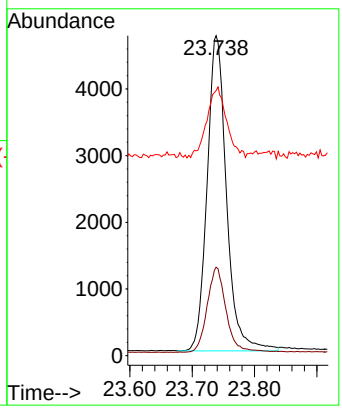


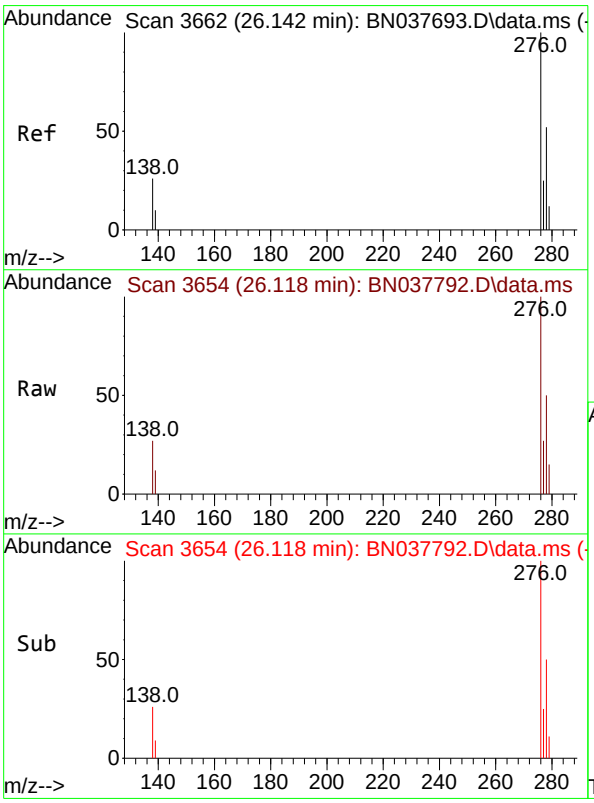
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:264 Resp: 10200

Ion	Ratio	Lower	Upper
264	100		
260	27.6	21.8	32.8
265	82.9	39.4	59.2#

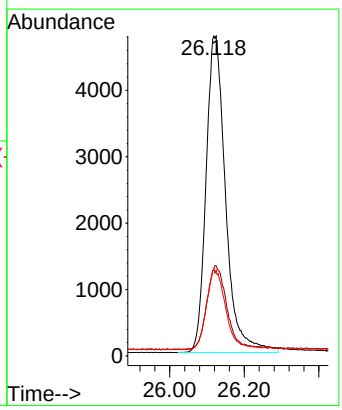


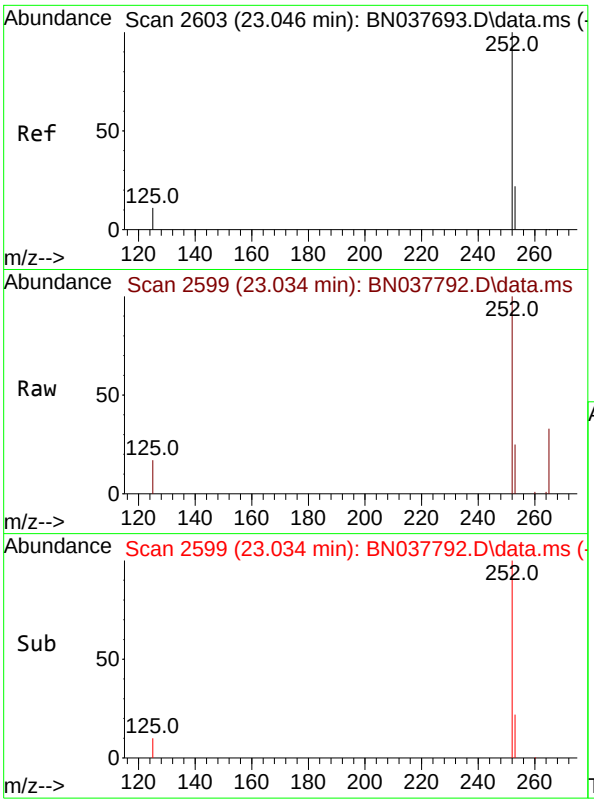


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.407 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.024 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:276 Resp: 17423

Ion	Ratio	Lower	Upper
276	100		
138	27.0	21.9	32.9
277	25.2	20.1	30.1



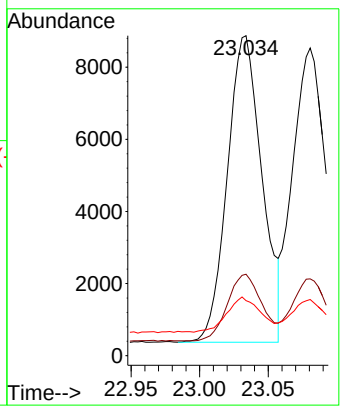


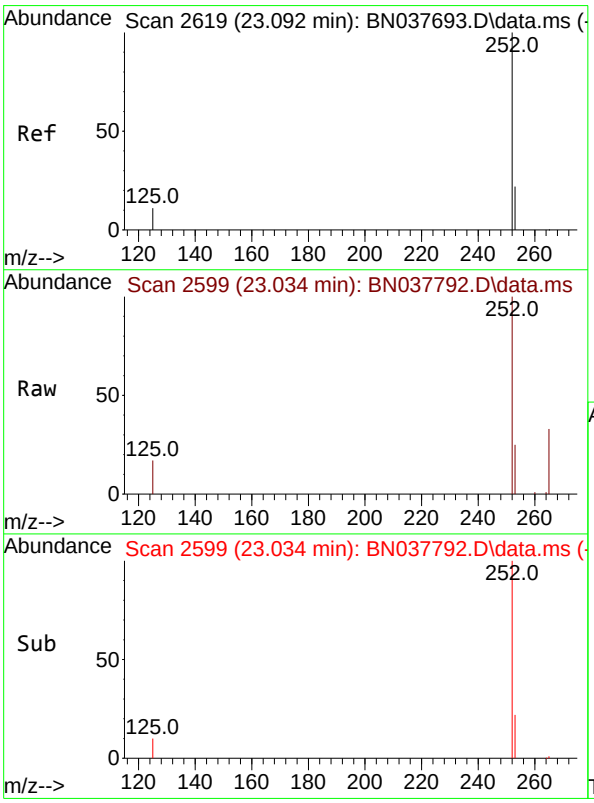
#37
Benzo(b)fluoranthene
Concen: 0.372 ng
RT: 23.034 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:252 Resp: 14955

Ion	Ratio	Lower	Upper
252	100		
253	25.5	19.4	29.2
125	17.2	11.2	16.8#

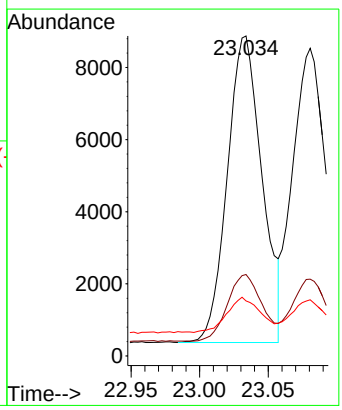


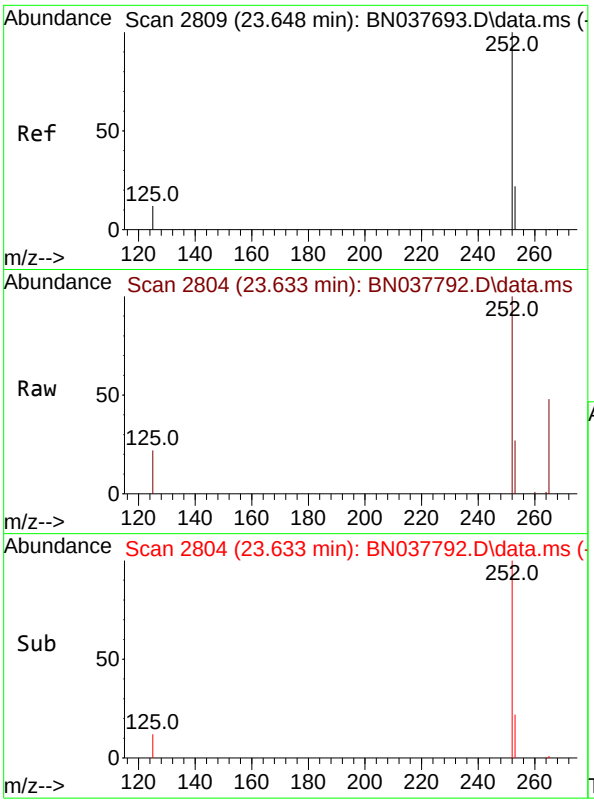


#38
Benzo(k)fluoranthene
Concen: 0.365 ng
RT: 23.034 min Scan# 2599
Delta R.T. -0.059 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:252 Resp: 14955

Ion	Ratio	Lower	Upper
252	100		
253	25.5	19.4	29.0
125	17.2	11.6	17.4



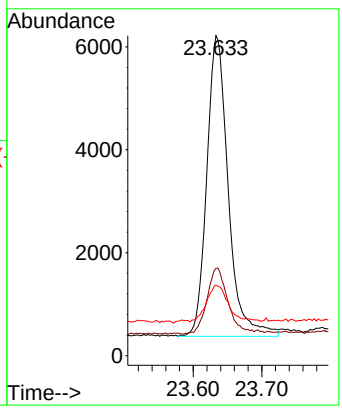


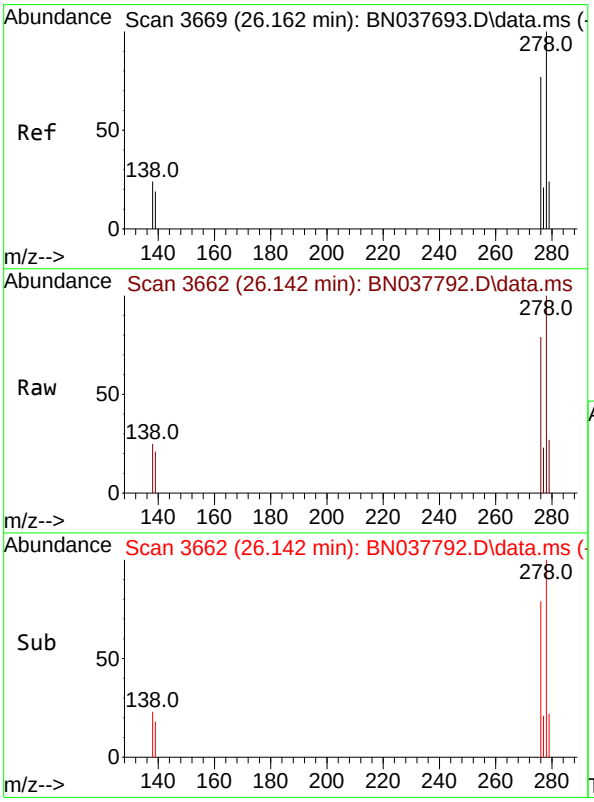
#39
Benzo(a)pyrene
Concen: 0.395 ng
RT: 23.633 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:252 Resp: 12714

Ion	Ratio	Lower	Upper
252	100		
253	27.3	20.8	31.2
125	22.1	13.9	20.9#

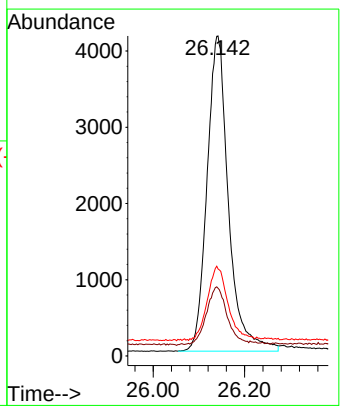


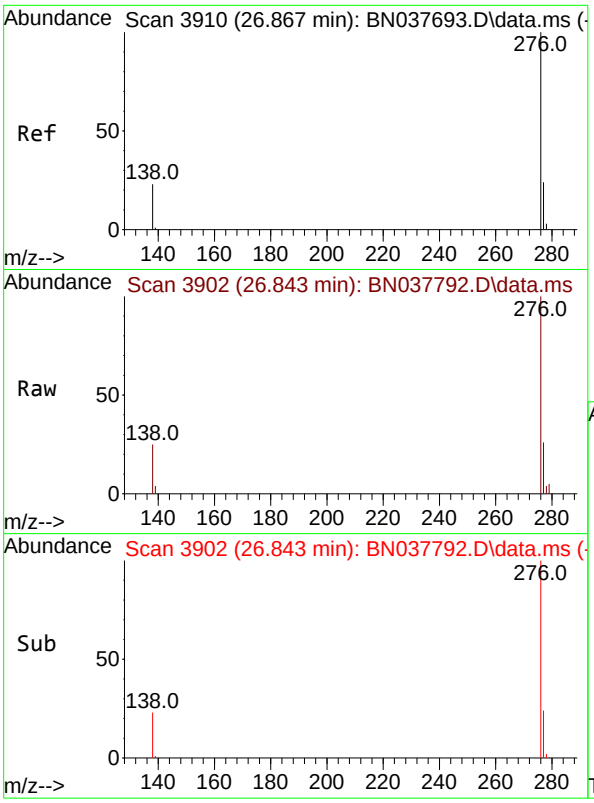


#40
Dibenzo(a,h)anthracene
Concen: 0.394 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.021 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:278 Resp: 13475

Ion	Ratio	Lower	Upper
278	100		
139	21.2	17.8	26.6
279	27.2	22.0	33.0





#41
Benzo(g,h,i)perylene
Concen: 0.398 ng
RT: 26.843 min Scan# 3
Delta R.T. -0.024 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:276 Resp: 15272

Ion	Ratio	Lower	Upper
276	100		
277	25.6	20.6	31.0
138	24.8	20.2	30.2