

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055723.D
 Acq On : 22 May 2019 16:57
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 12:30:49 PM

Quant Time: May 23 05:40:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:31:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	59214	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	315145	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	266511	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	114044	25.27	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	84.23%
60) 4-Bromofluorobenzene	12.40	95	115537	28.07	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.57%
63) Toluene-d8	10.09	98	376556	29.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	15169	4.883	ug/l 97
3) Chloromethane	2.06	50	20212	4.603	ug/l 99
4) Vinyl Chloride	2.19	62	19922	5.371	ug/l 99
5) Bromomethane	2.53	94	11876	5.618	ug/l 96
6) Chloroethane	2.68	64	11951	5.692	ug/l 92
7) Trichlorofluoromethane	3.00	101	25165	4.763	ug/l 97
8) Diethyl Ether	3.40	74	10826	4.935	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	15790	4.699	ug/l 99
10) 1,1-Dichloroethene	3.72	96	16497	5.150	ug/l 97
11) Methyl Iodide	3.94	142	20050	4.053	ug/l 98
12) Methyl Acetate	4.33	43	23118	5.166	ug/l 97
13) Acrolein	3.60	56	15641	57.677	ug/l 97
14) Acrylonitrile	4.99	53	43691	26.150	ug/l 99
15) Acetone	3.82	58	15026	35.022	ug/l 91
16) Carbon Disulfide	4.04	76	46024	5.188	ug/l 99
17) Allyl chloride	4.31	41	29109	4.325	ug/l 97
18) Methylene Chloride	4.54	84	18812	4.824	ug/l 96
19) trans-1,2-Dichloroethene	5.03	96	17453	5.015	ug/l 96
20) Diisopropyl ether	5.95	45	56459	4.212	ug/l 99
21) 1,1-Dichloroethane	5.84	63	31665	4.463	ug/l 97
22) cis-1,2-Dichloroethene	6.82	96	20027	4.937	ug/l 98
23) tert-Butyl Alcohol	4.82	59	20422m	43.966	ug/l
24) Methyl tert-Butyl Ether	5.04	73	54708	5.188	ug/l 100
25) Chloroform	7.37	83	32010	4.760	ug/l 98
26) Cyclohexane	7.65	56	29671	4.733	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	22511	4.607	ug/l 98
30) 2-Butanone	6.85	43	61893	29.653	ug/l 99
31) 2,2-Dichloropropane	6.82	77	28578	5.910	ug/l # 81
32) 1,1,1-Trichloroethane	7.57	97	28121	5.117	ug/l 98
33) Carbon Tetrachloride	7.77	117	25250	5.400	ug/l 95
34) Benzene	8.04	78	71267	4.851	ug/l # 72
35) Methacrylonitrile	7.18	41	10802	4.841	ug/l 97
36) 1,2-Dichloroethane	8.12	62	23565	4.575	ug/l 95
37) Trichloroethene	8.84	130	19913	5.263	ug/l 99
38) Methylcyclohexane	9.08	83	30176	5.590	ug/l 97
39) 1,2-Dichloropropane	9.12	63	19133	4.613	ug/l 98
40) Dibromomethane	9.21	93	12680	5.200	ug/l 99

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 Acq On : 22 May 2019 16:57
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

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 5/23/2019 12:30:49 PM

Quant Time: May 23 05:40:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:31:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	26084	5.186	ug/l	94
42) Vinyl Acetate	5.90	43	236817	24.546	ug/l	100
43) Ethyl Acetate	6.93	43	25173	5.847	ug/l #	100
44) Isopropyl Acetate	8.17	43	39250	5.120	ug/l #	87
45) 1,4-Dioxane	9.20	88	7672	167.070	ug/l	95
46) Methyl methacrylate	9.20	41	17542	4.848	ug/l	97
47) n-amyl Acetate	12.07	43	31268	5.449	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	26158	5.148	ug/l	92
49) cis-1,3-Dichloropropene	9.84	75	29433	5.062	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	18294	5.405	ug/l	99
51) Ethyl methacrylate	10.43	69	27926	5.765	ug/l	97
52) 1,3-Dichloropropane	10.71	76	29148	4.906	ug/l	100
53) Dibromochloromethane	10.90	129	20820	5.751	ug/l	97
54) 1,2-Dibromoethane	11.00	107	18234	5.442	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	52208	33.603	ug/l	99
56) Bromoform	12.13	173	16728	6.655	ug/l #	93
58) 4-Methyl-2-Pentanone	9.99	43	120302	28.449	ug/l	99
59) 2-Hexanone	10.75	43	85021	30.693	ug/l	99
61) Tetrachloroethene	10.63	164	19304	5.553	ug/l	93
62) Toluene	10.16	91	75389	5.038	ug/l	99
64) Chlorobenzene	11.43	112	44746	5.022	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	18945	5.592	ug/l	100
66) Ethyl Benzene	11.51	91	81904	5.102	ug/l	98
67) m/p-Xylenes	11.62	106	61558	10.442	ug/l	100
68) o-Xylene	11.95	106	31269	5.338	ug/l	98
69) Styrene	11.96	104	47371	5.123	ug/l	100
70) Isopropylbenzene	12.25	105	81064	5.259	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	25426	5.807	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	22306m	5.830	ug/l	
73) Bromobenzene	12.53	156	20203	5.377	ug/l	98
74) n-propylbenzene	12.59	91	80666	4.718	ug/l	100
75) 2-Chlorotoluene	12.67	91	51422	4.900	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	65718	5.168	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	8475	7.531	ug/l	97
78) 4-Chlorotoluene	12.77	91	44396	4.463	ug/l	99
79) tert-butylbenzene	12.99	119	60604	5.509	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	65035	5.298	ug/l	98
81) sec-Butylbenzene	13.17	105	72937	5.065	ug/l	99
82) p-Isopropyltoluene	13.29	119	65406	5.349	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	27623	4.553	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	24793	4.332	ug/l	97
85) n-Butylbenzene	13.61	91	44935	4.774	ug/l	99
86) Hexachloroethane	13.87	117	13524	6.216	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	29782	4.902	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	4562	6.619	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	10820	4.198	ug/l	95
90) Hexachlorobutadiene	15.01	225	13624	6.405	ug/l	97
91) Naphthalene	15.13	128	32086	5.092	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	12772	4.709	ug/l	96

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Acq On : 22 May 2019 16:57
Operator : JC/SP
Sample : VSTDICC005
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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Quant Time: May 23 05:40:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 23 05:31:08 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

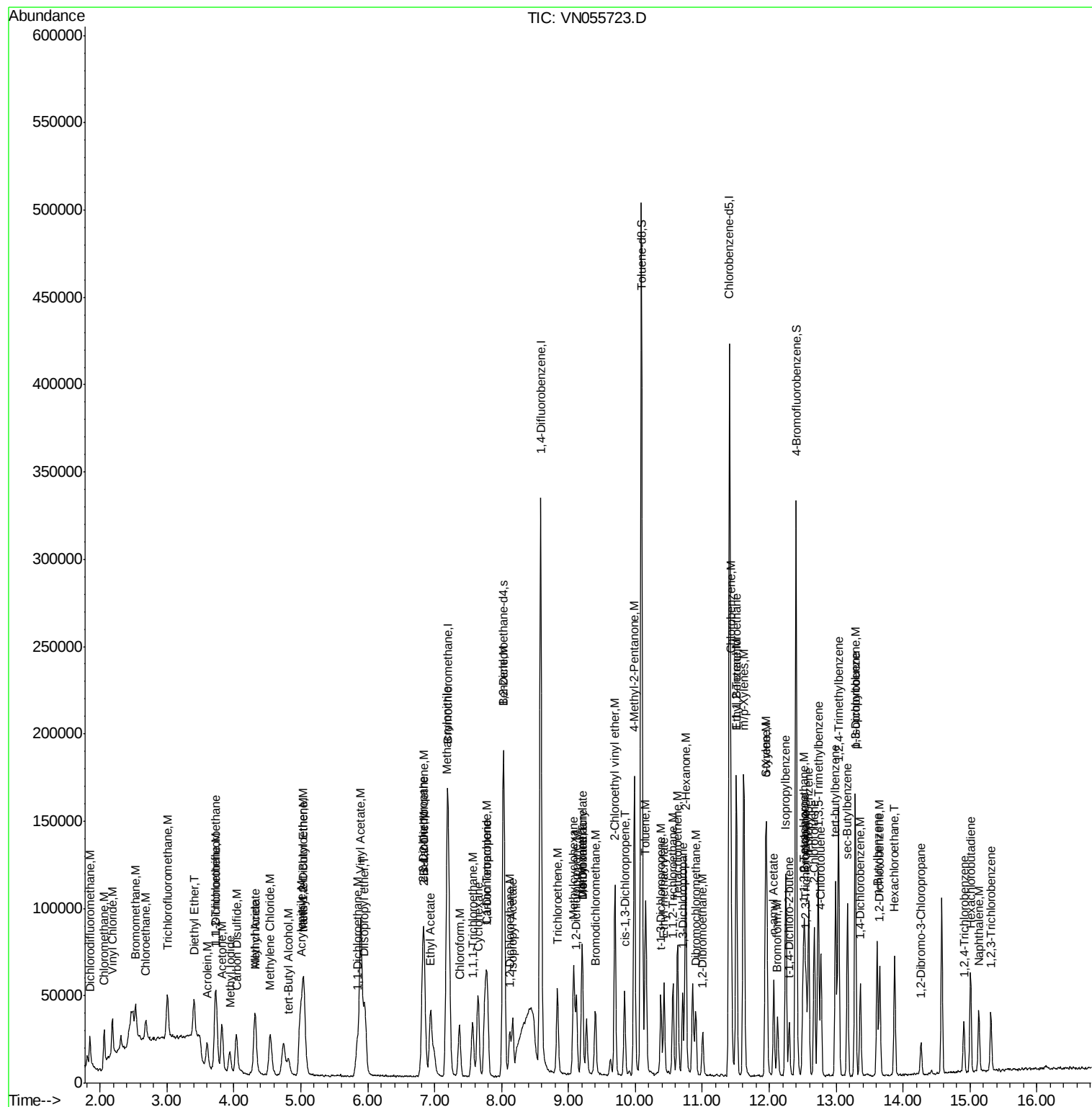
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Data File : VN055723.D
Acq On : 22 May 2019 16:57
Operator : JC/SP
Sample : VSTDIC005
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 3 Sample Multiplier: 1

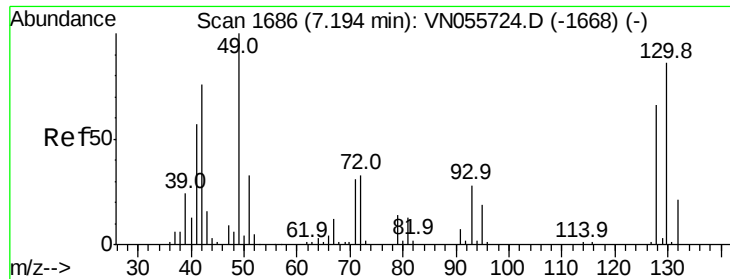
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Manual Integrations
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Quant Time: May 23 05:40:31 2019
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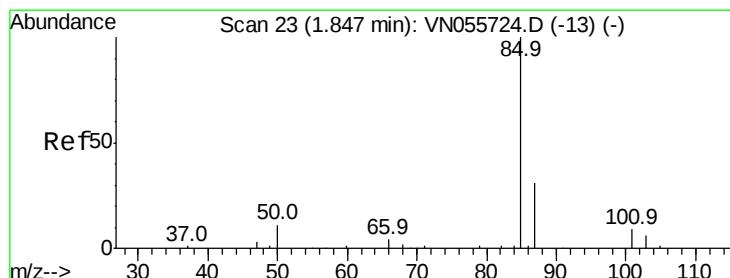
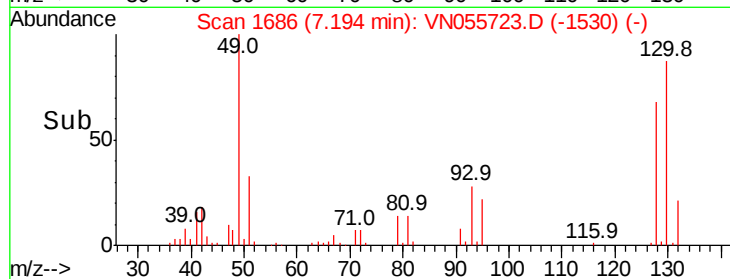
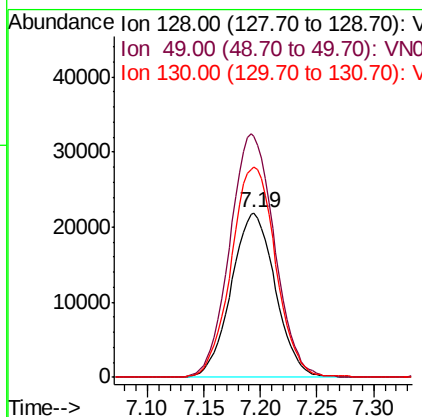
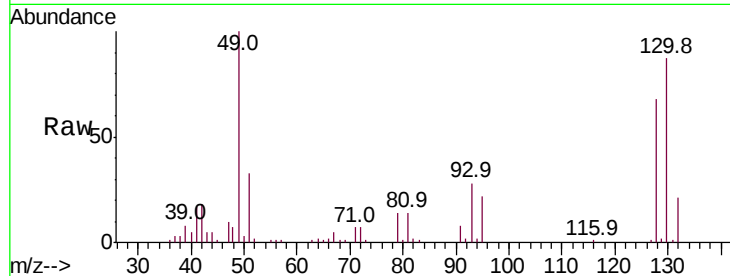
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
49	150.2	0.0	383.2
130	129.7	0.0	326.3

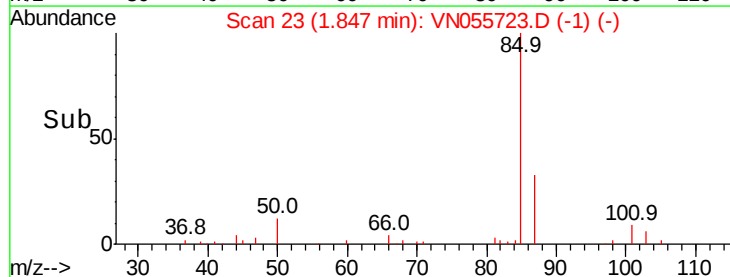
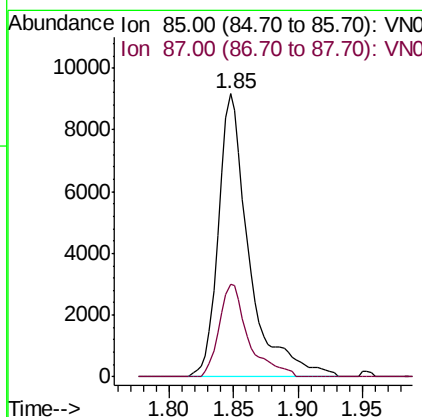
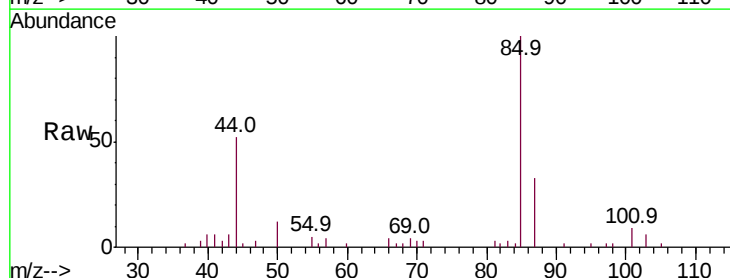
Manual Integrations
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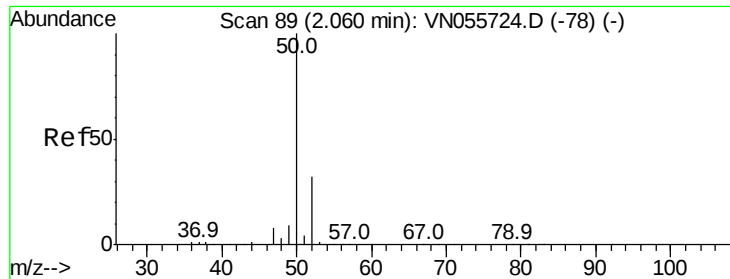
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#2
 Dichlorodifluoromethane
 Concen: 4.883 ug/l
 RT: 1.85 min Scan# 23
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.8	15.7	47.0





#3

Chloromethane

Concen: 4.603 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 50 Resp: 20212

Ion Ratio Lower Upper

50 100

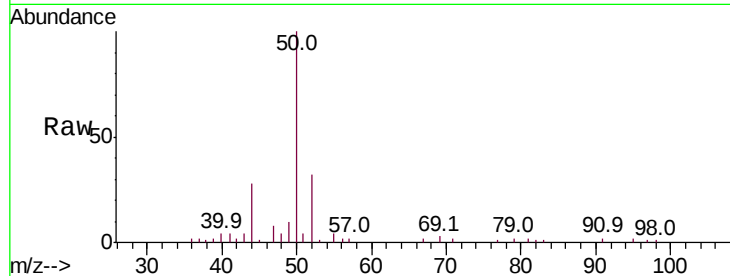
52 32.2 25.4 38.2

Manual Integrations

APPROVED

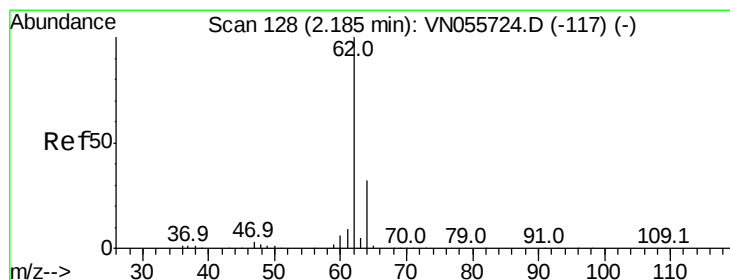
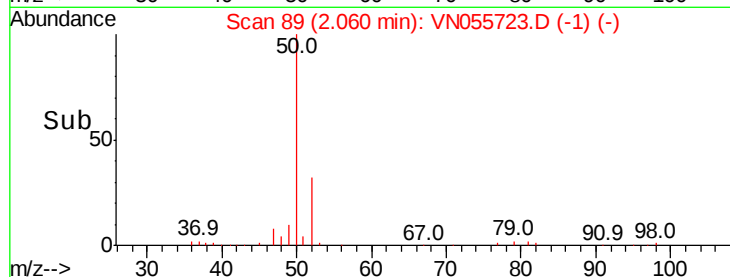
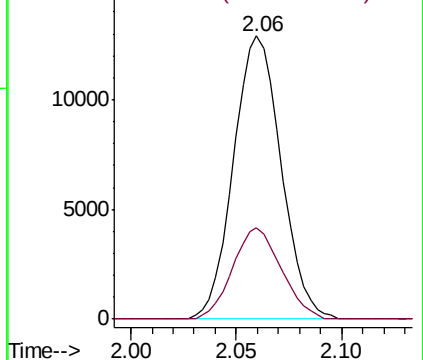
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Abundance Ion 50.00 (49.70 to 50.70): VNC

Ion 52.00 (51.70 to 52.70): VNC



#4

Vinyl Chloride

Concen: 5.371 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN055723.D

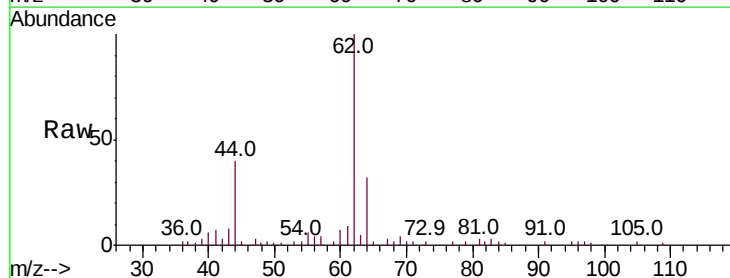
Acq: 22 May 2019 16:57

Tgt Ion: 62 Resp: 19922

Ion Ratio Lower Upper

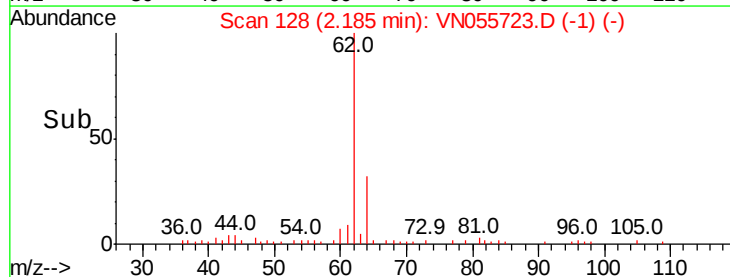
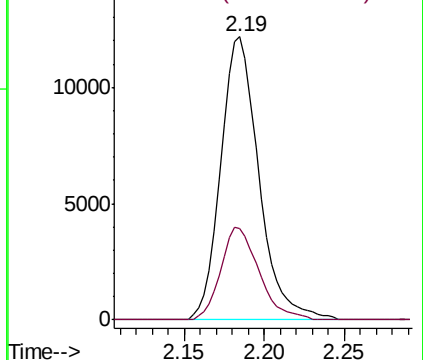
62 100

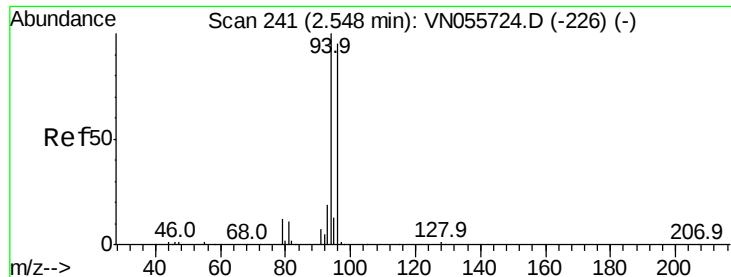
64 32.5 25.7 38.5



Abundance Ion 62.00 (61.70 to 62.70): VNC

Ion 64.00 (63.70 to 64.70): VNC





#5

Bromomethane

Concen: 5.618 ug/l

RT: 2.53 min Scan# 236

Delta R.T. -0.02 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 11876

Ion Ratio Lower Upper

94 100

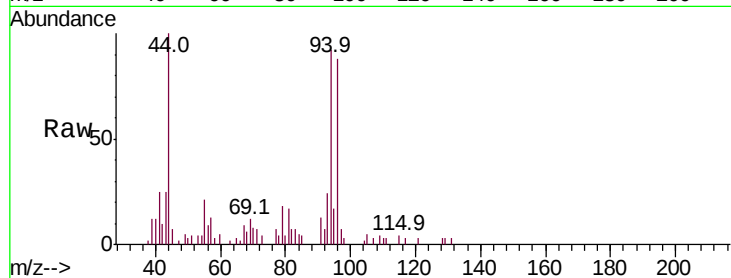
96 91.3 75.8 113.8

Manual Integrations

APPROVED

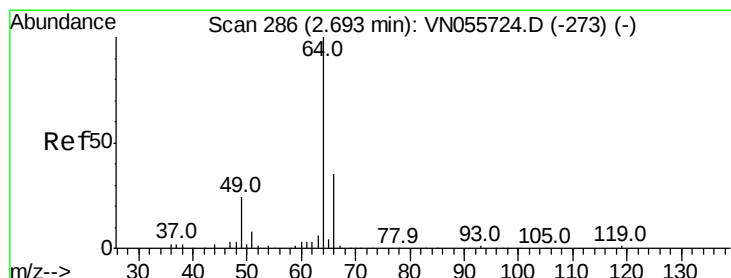
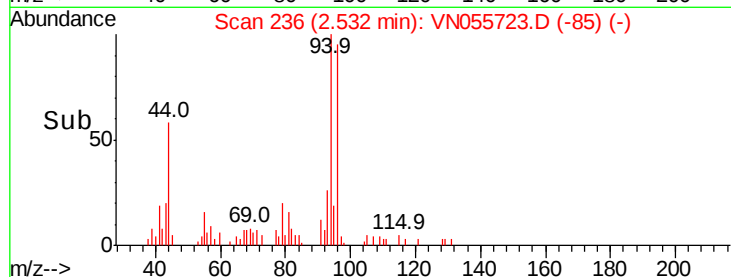
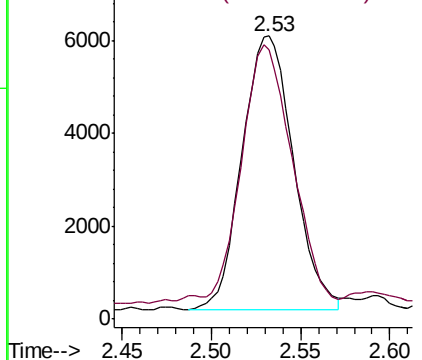
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Abundance Ion 94.00 (93.70 to 94.70): VNO

Ion 96.00 (95.70 to 96.70): VNO



#6

Chloroethane

Concen: 5.692 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.01 min

Lab File: VN055723.D

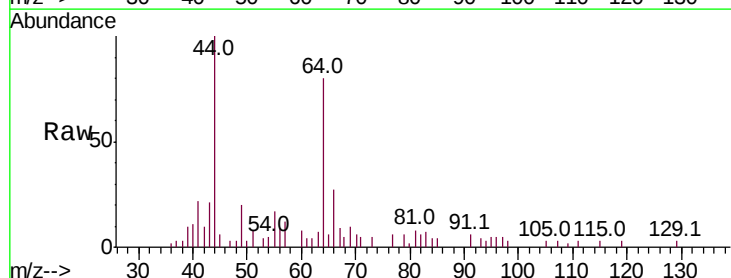
Acq: 22 May 2019 16:57

Tgt Ion: 64 Resp: 11951

Ion Ratio Lower Upper

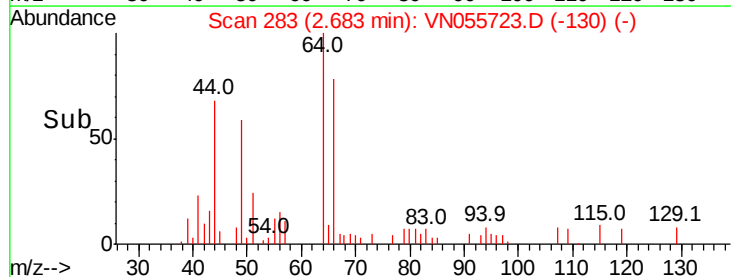
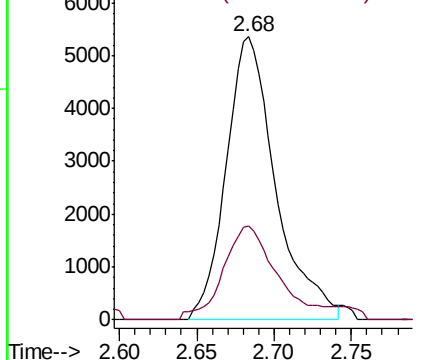
64 100

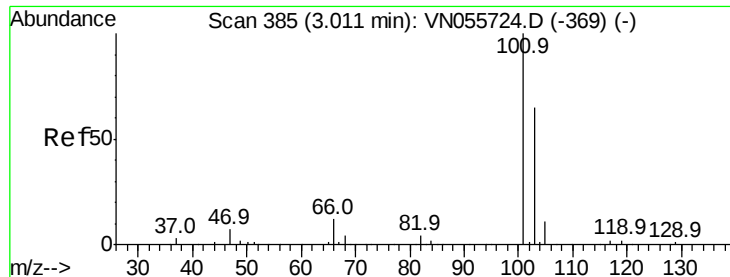
66 30.4 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VNO

Ion 66.00 (65.70 to 66.70): VNO





#7

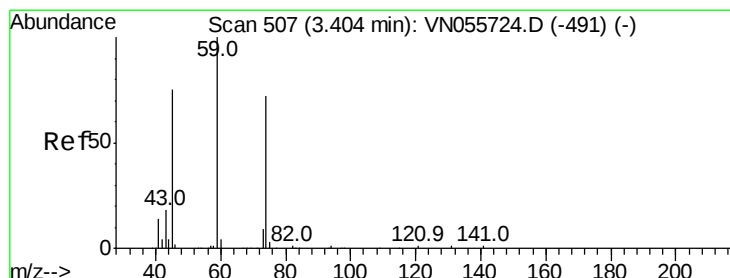
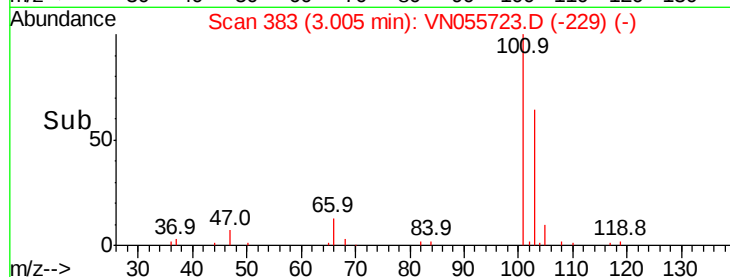
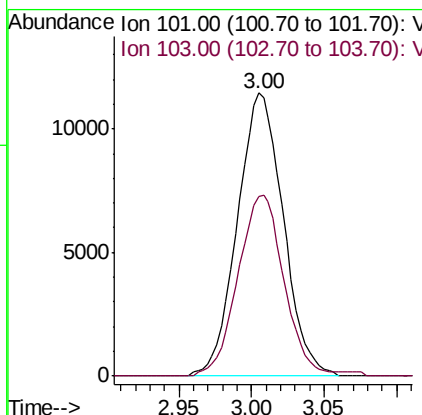
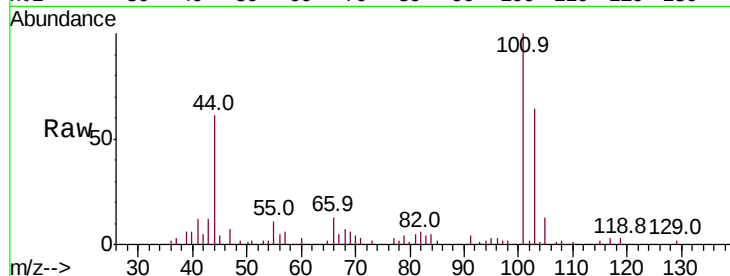
Trichlorofluoromethane
Concen: 4.763 ug/l
RT: 3.00 min Scan# 383
Delta R.T. -0.01 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion:101 Resp: 25165
Ion Ratio Lower Upper
101 100
103 63.6 52.6 78.8

Manual Integrations
APPROVED

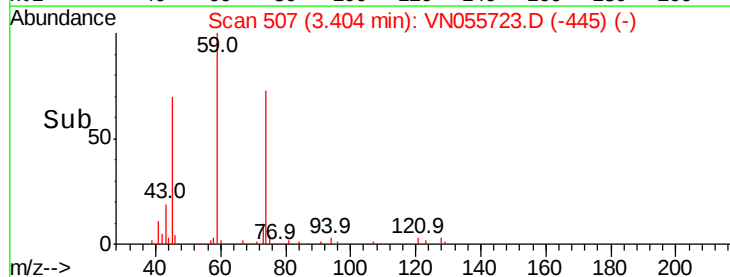
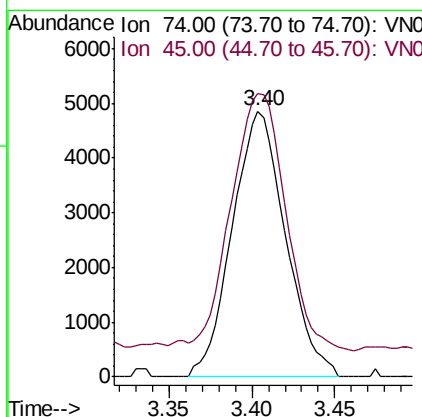
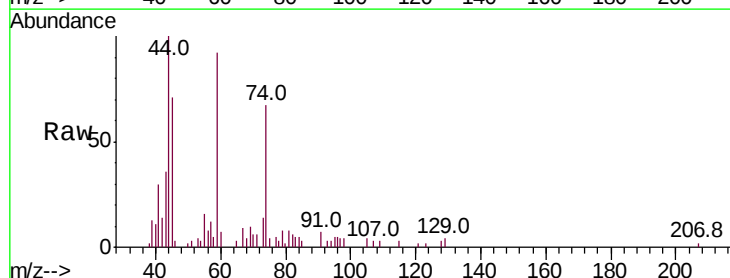
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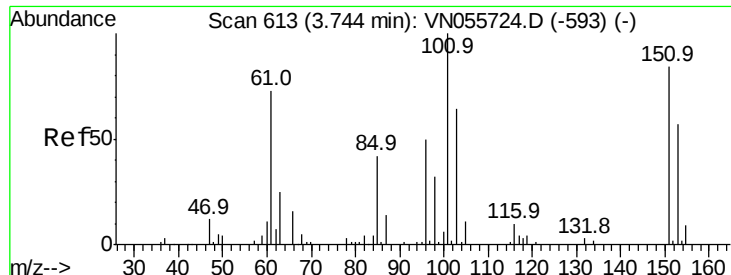


#8

Diethyl Ether
Concen: 4.935 ug/l
RT: 3.40 min Scan# 507
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion: 74 Resp: 10826
Ion Ratio Lower Upper
74 100
45 99.4 20.4 184.0





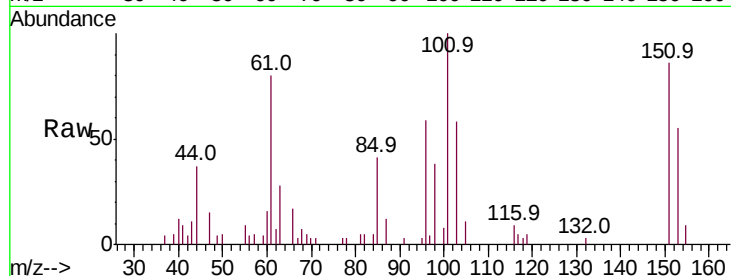
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 1,1,2-Trichlorotrifluoroethane
 Concen: 4.699 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. -0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

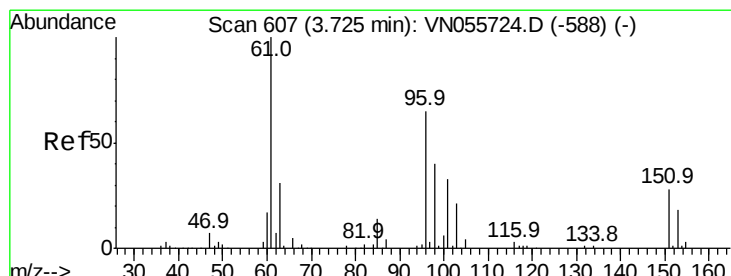
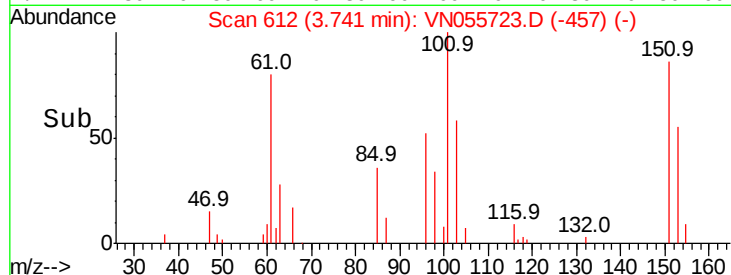
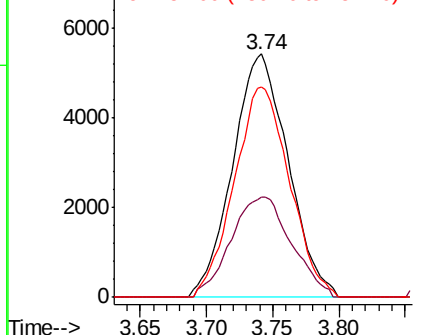
Tot Ion	Ratio	Resp Lower	Resp Upper
101	100		
85	45.0	0.0	86.6
151	86.1	0.0	172.2

Manual Integrations
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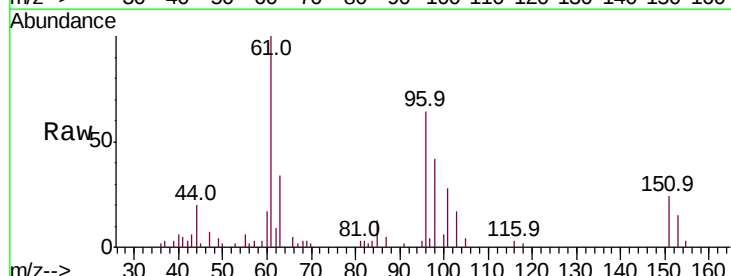


Abundance Ion 101.00 (100.70 to 101.70): V
 Ion 85.00 (84.70 to 85.70): VN
 Ion 151.00 (150.70 to 151.70): V

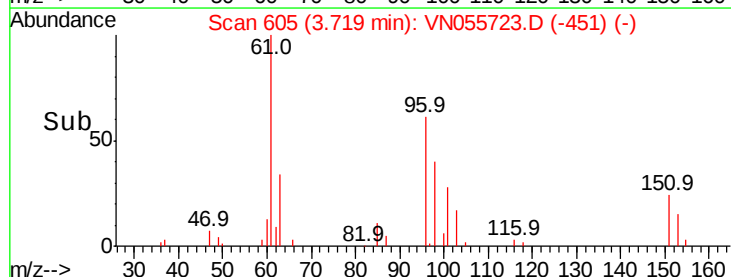
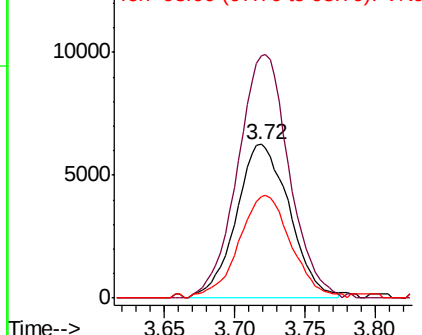


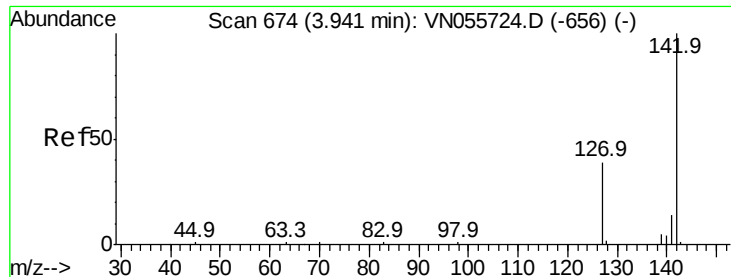
#10
 1,1-Dichloroethene
 Concen: 5.150 ug/l
 RT: 3.72 min Scan# 605
 Delta R.T. -0.01 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion	Ratio	Resp Lower	Resp Upper
96	100		
61	157.4	123.7	185.5
98	66.1	50.0	75.0



Abundance Ion 96.00 (95.70 to 96.70): VNO
 Ion 61.00 (60.70 to 61.70): VNO
 Ion 98.00 (97.70 to 98.70): VNO





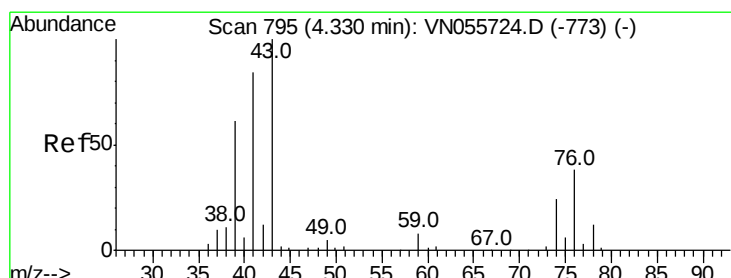
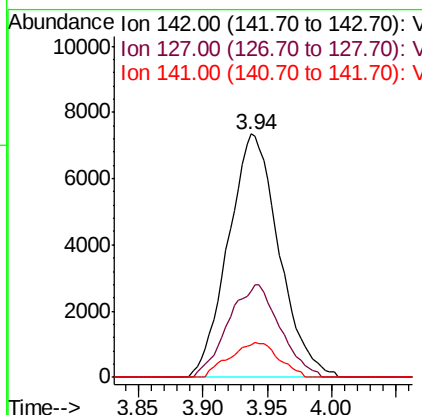
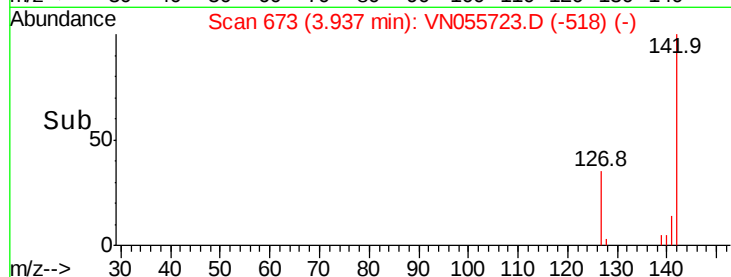
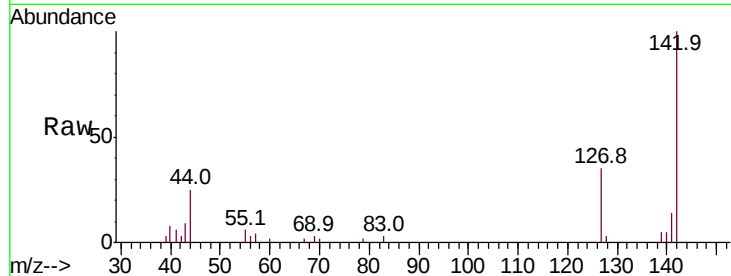
#11
Methvl Iodide
Concen: 4.053 ug/l
RT: 3.94 min Scan# 673
Delta R.T. -0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:	142	Resp:	20050
Ion Ratio	Lower	Upper	
142	100		
127	37.9	19.6	58.7
141	13.6	6.9	20.6

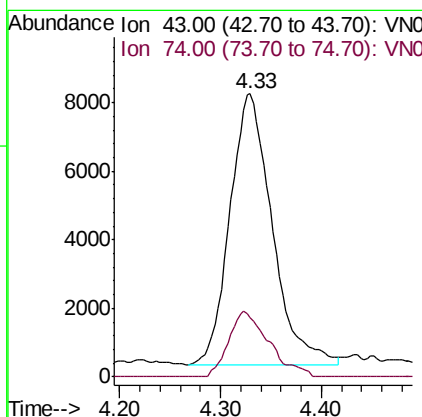
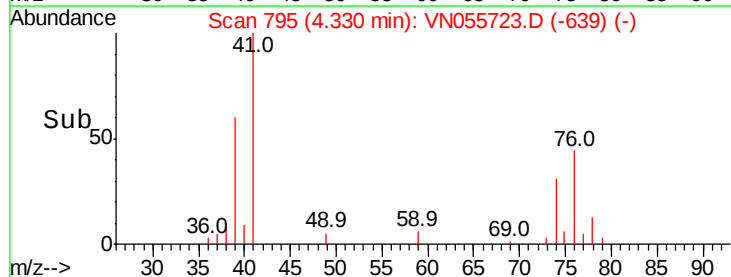
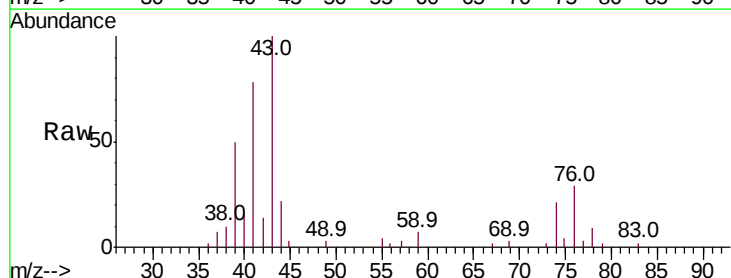
Manual Integrations
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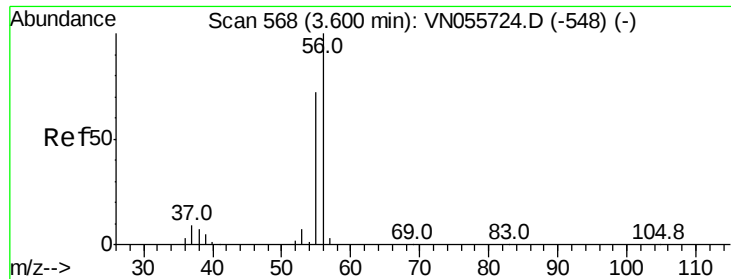
MMDadoda
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#12
Methyl Acetate
Concen: 5.166 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion:	43	Resp:	23118
Ion Ratio	Lower	Upper	
43	100		
74	22.3	19.2	28.8





#13

Acrolein

Concen: 57.677 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 15641

Ion Ratio Lower Upper

56 100

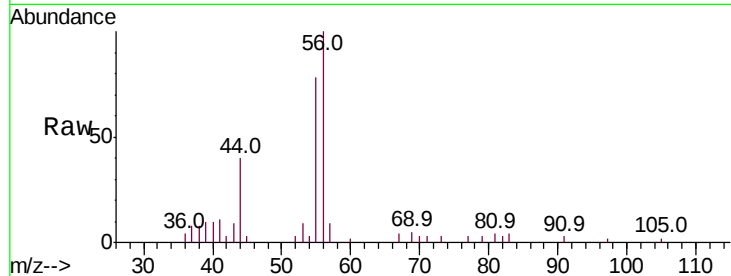
55 73.8 57.0 85.6

Manual Integrations

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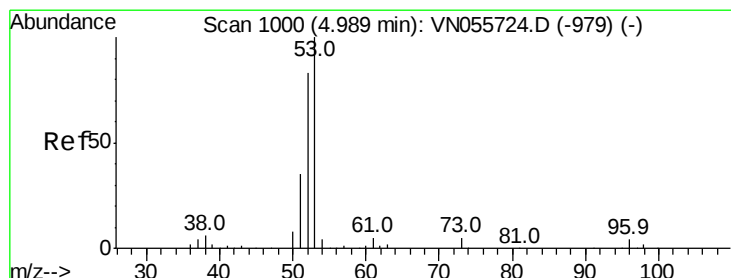
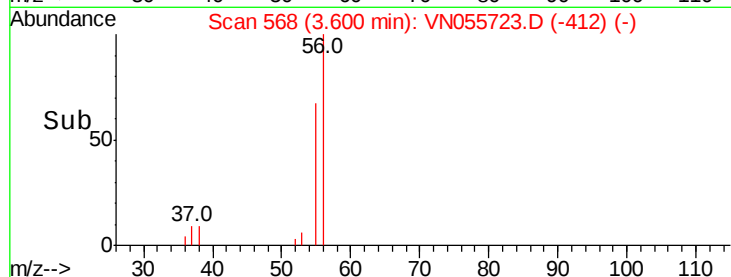
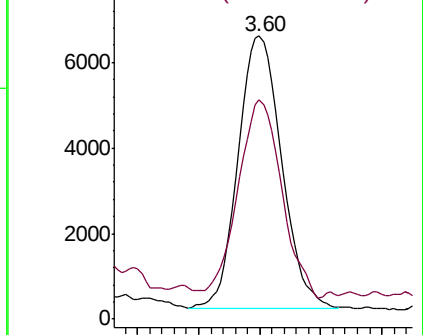
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Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Acrylonitrile

Concen: 26.150 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

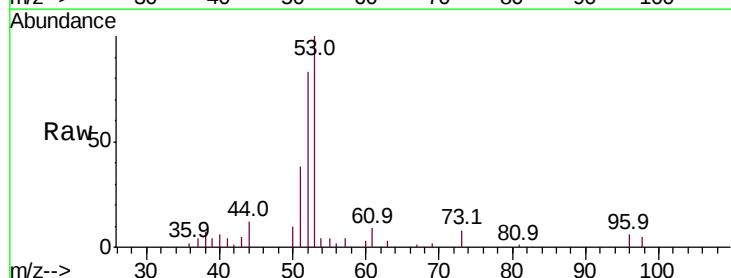
Tgt Ion: 53 Resp: 43691

Ion Ratio Lower Upper

53 100

52 82.8 41.1 123.4

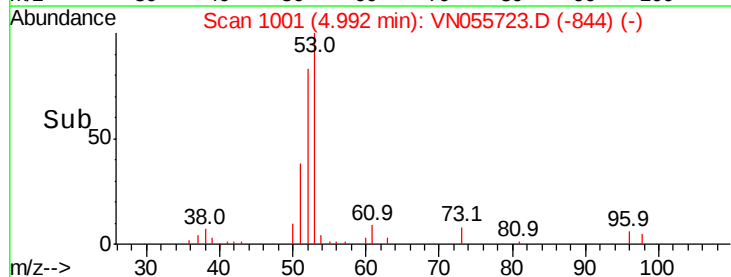
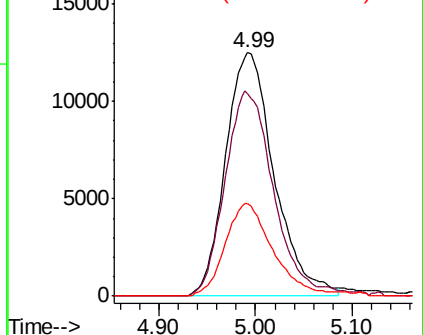
51 37.1 17.5 52.6

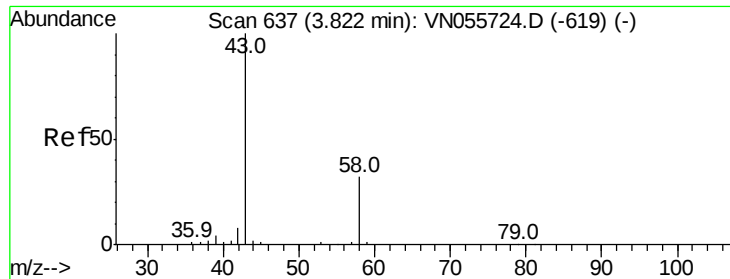


Abundance Ion 53.00 (52.70 to 53.70): VNO

Ion 52.00 (51.70 to 52.70): VNO

Ion 51.00 (50.70 to 51.70): VNO





#15

Acetone

Concen: 35.022 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 58 Resp: 15026

Ion Ratio Lower Upper

58 100

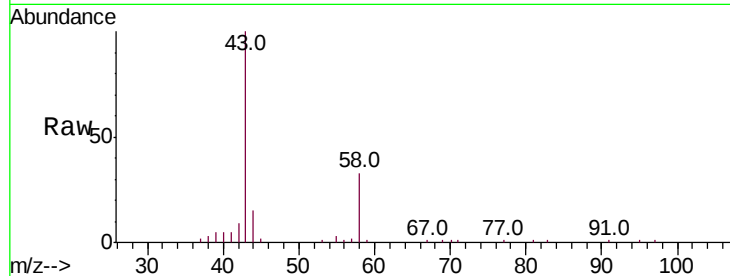
43 292.7 248.8 373.2

Manual Integrations

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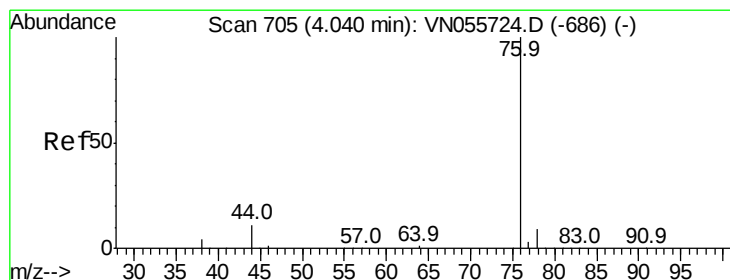
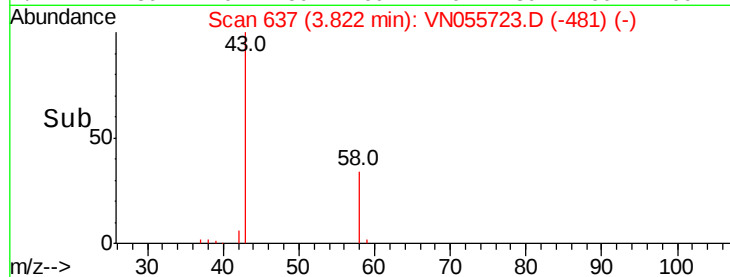
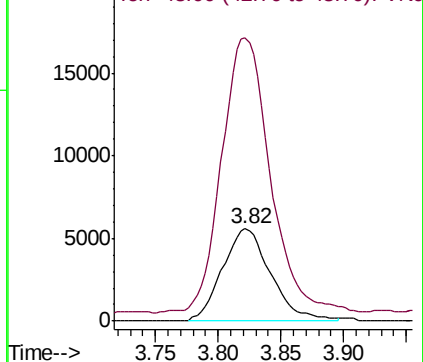
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Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 5.188 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN055723.D

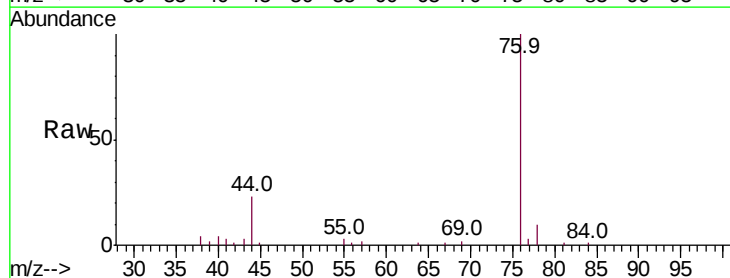
Acq: 22 May 2019 16:57

Tgt Ion: 76 Resp: 46024

Ion Ratio Lower Upper

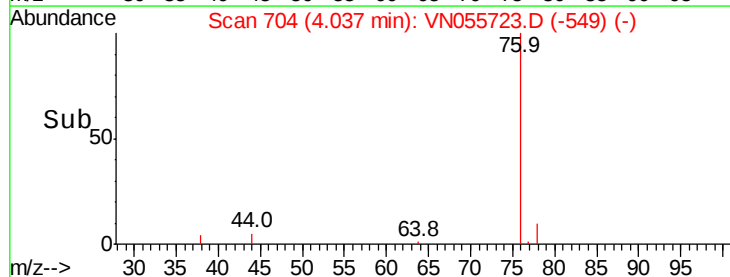
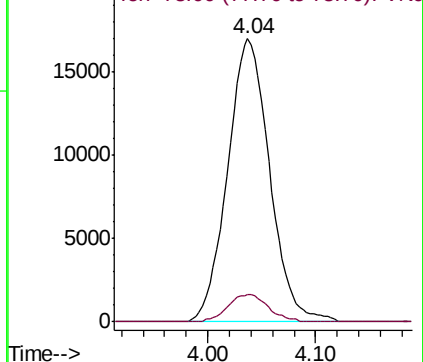
76 100

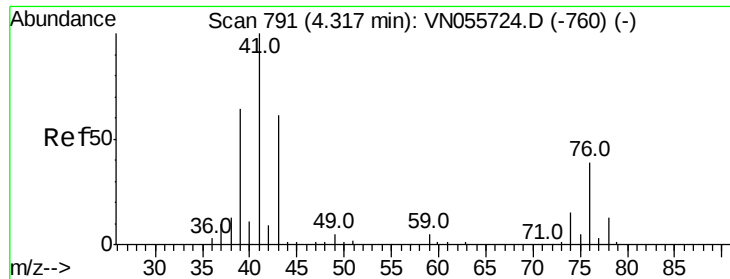
78 9.6 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#17

Allvl chloride

Concen: 4.325 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

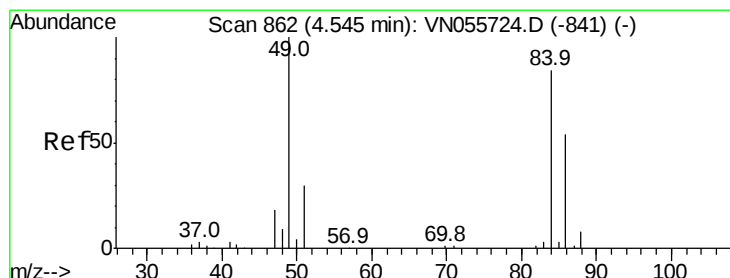
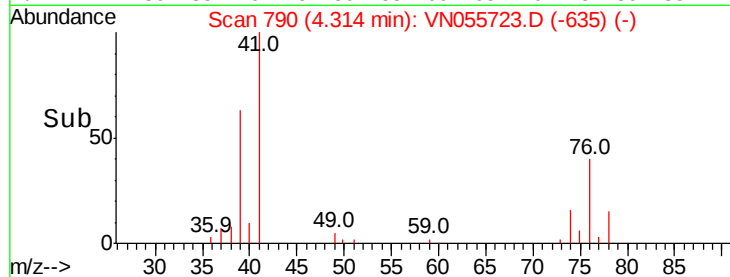
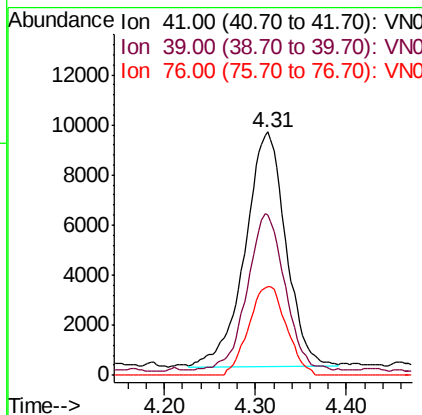
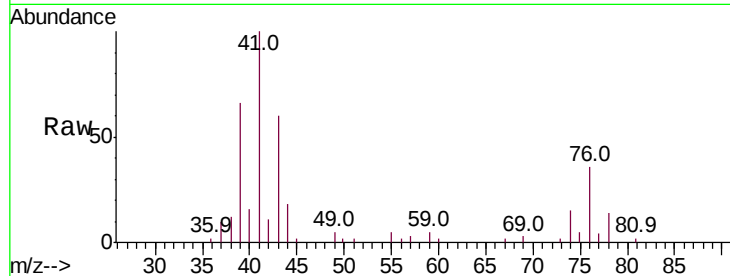
ClientSampleId :

VSTDIC005

Tot Ion:	41	Resp:	29109
Ion	Ratio	Lower	Upper
41	100		
39	66.4	31.8	95.3
76	37.8	19.3	57.9

Manual Integrations
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#18

Methylene Chloride

Concen: 4.824 ug/l

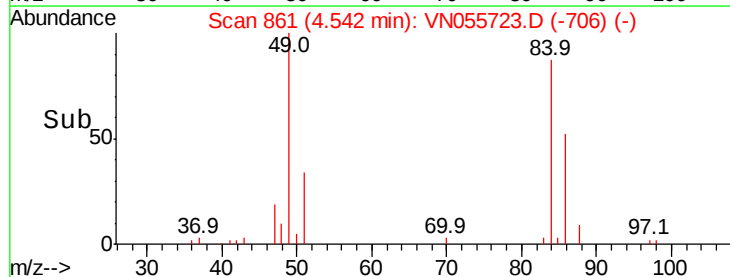
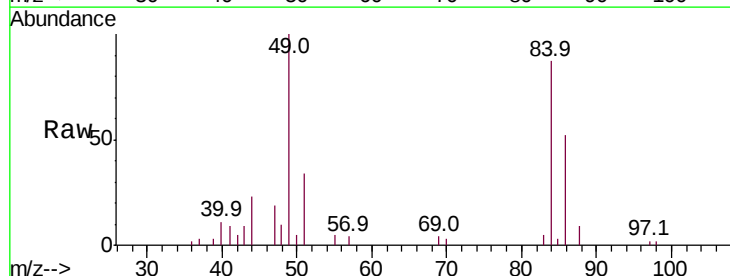
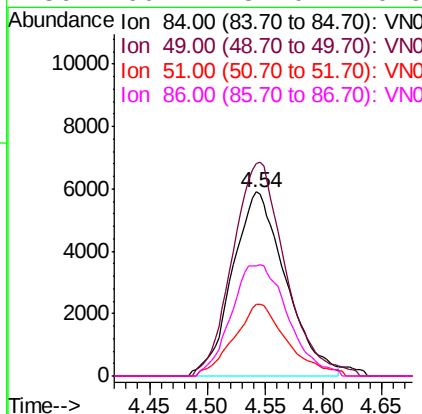
RT: 4.54 min Scan# 861

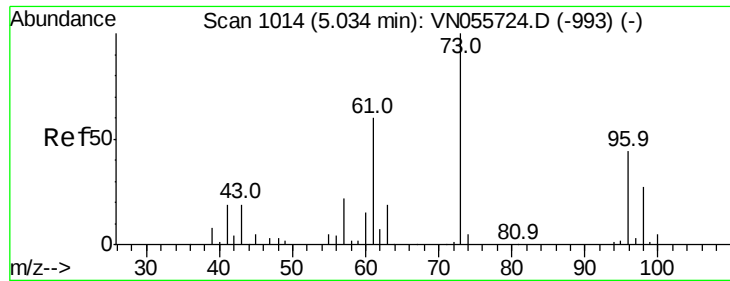
Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Tgt Ion:	84	Resp:	18812
Ion	Ratio	Lower	Upper
84	100		
49	115.5	94.7	142.1
51	38.8	28.6	43.0
86	60.1	51.0	76.6





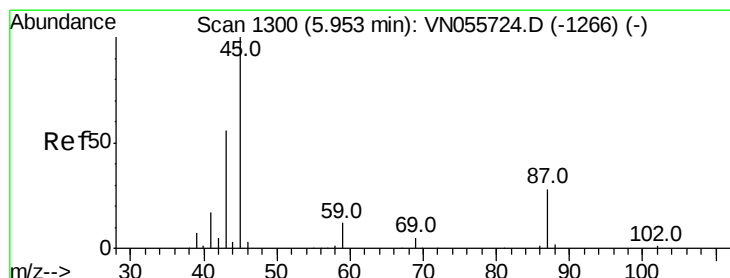
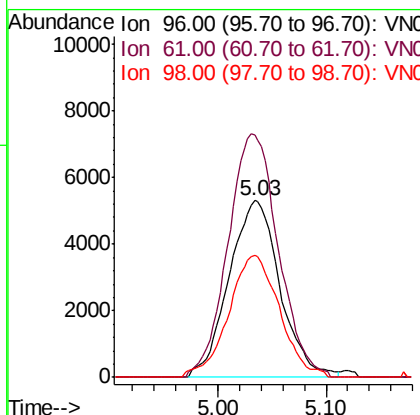
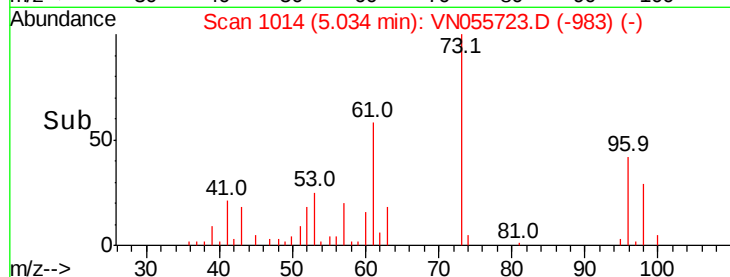
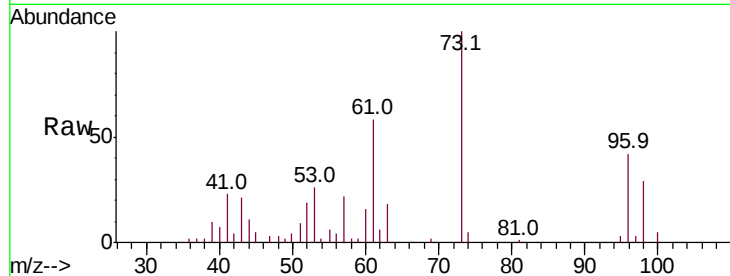
#19
trans-1,2-Dichloroethene
Concen: 5.015 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	137.4	108.5	162.7
98	69.3	49.4	74.2

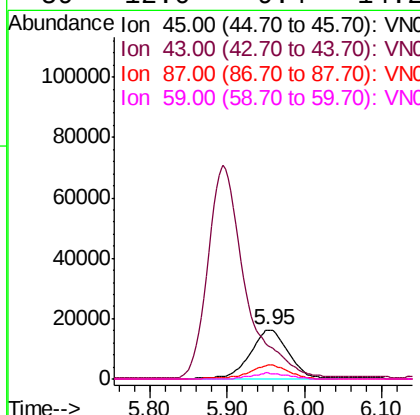
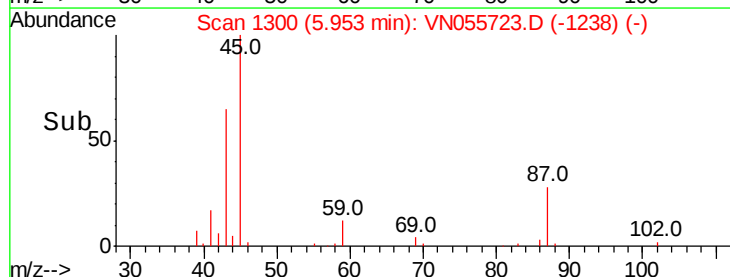
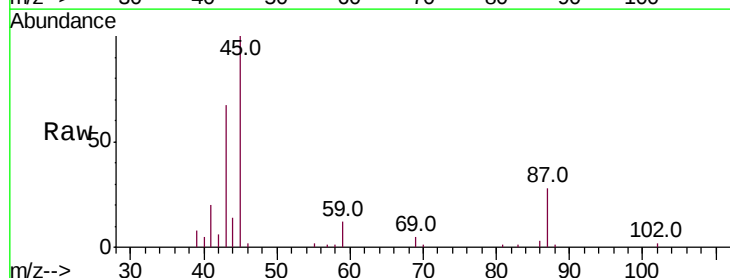
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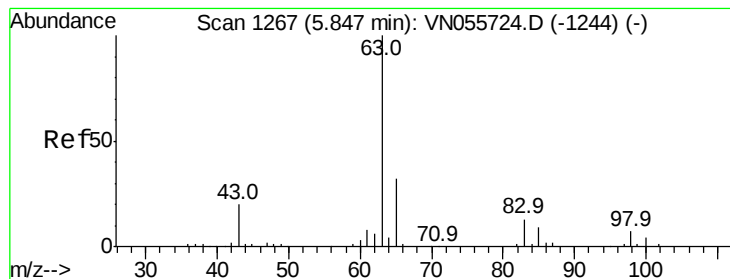
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#20
Diisopropyl ether
Concen: 4.212 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.9	48.6	73.0
87	28.2	22.6	34.0
59	12.0	9.4	14.2





#21

1,1-Dichloroethane

Concen: 4.463 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

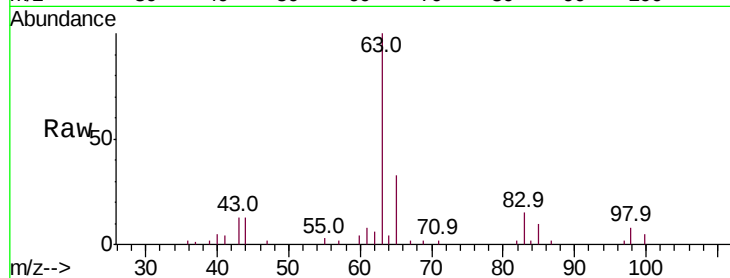
ClientSampleId :

VSTDIC005

Tot Ion:	63	Resp:	31665
Ion	Ratio	Lower	Upper
63	100		
98	8.2	3.4	10.2
100	4.7	2.2	6.6

Manual Integrations
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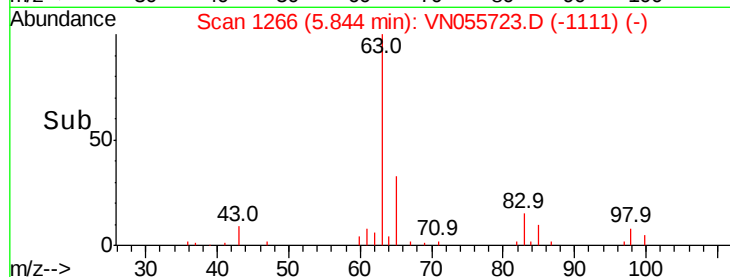


Abundance Ion 63.00 (62.70 to 63.70): VN055723.D (-1244) (-)

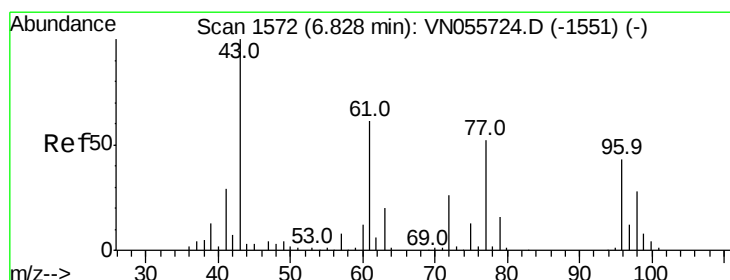
Ion 98.00 (97.70 to 98.70): VN055723.D (-1244) (-)

Ion 100.00 (99.70 to 100.70): VN055723.D (-1244) (-)

Time-->



Time-->



#22

cis-1,2-Dichloroethene

Concen: 4.937 ug/l

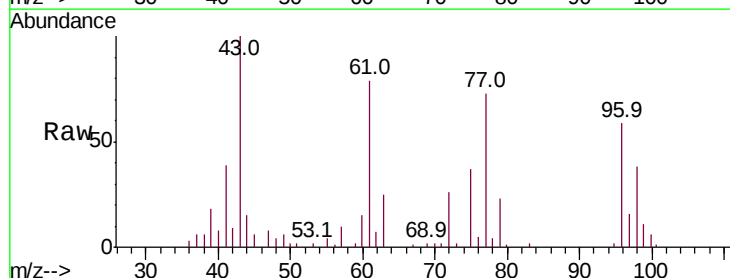
RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Tgt Ion:	96	Resp:	20027
Ion	Ratio	Lower	Upper
96	100		
61	145.4	115.7	173.5
98	67.1	51.5	77.3

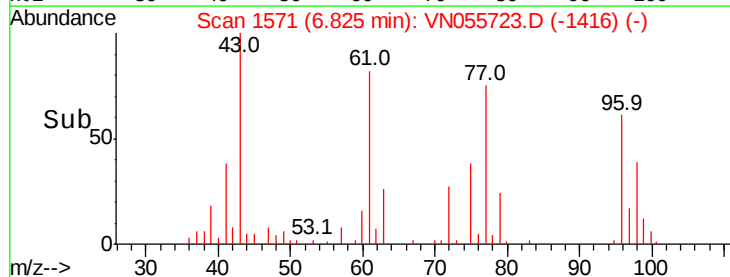


Abundance Ion 96.00 (95.70 to 96.70): VN055723.D (-1416) (-)

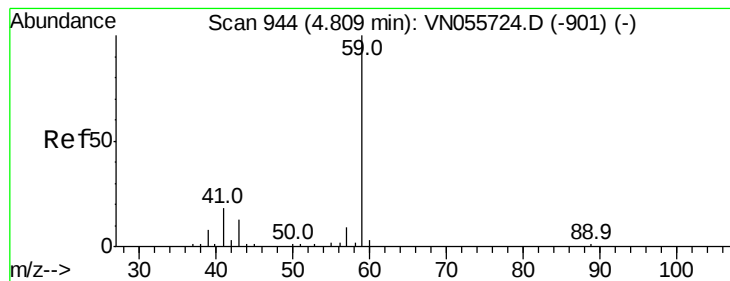
Ion 61.00 (60.70 to 61.70): VN055723.D (-1416) (-)

Ion 98.00 (97.70 to 98.70): VN055723.D (-1416) (-)

Time-->



Time-->



#23

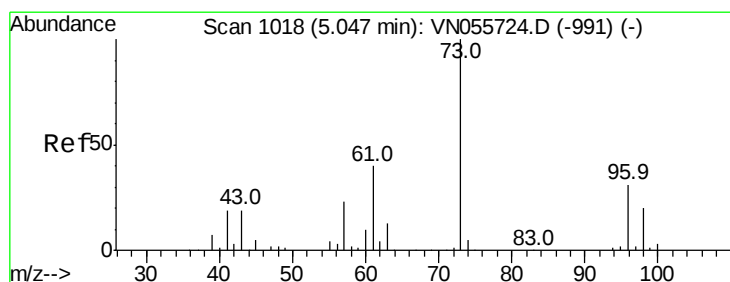
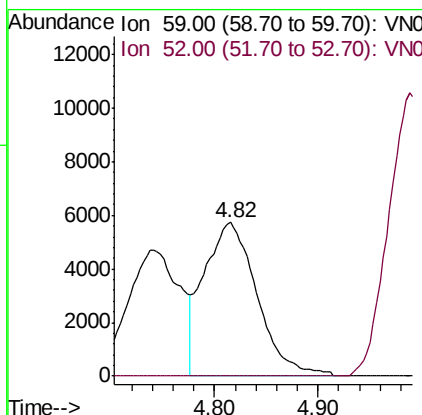
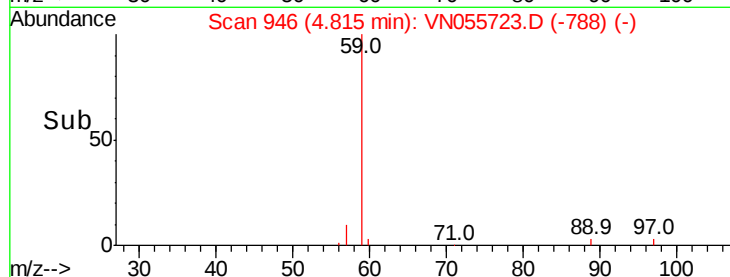
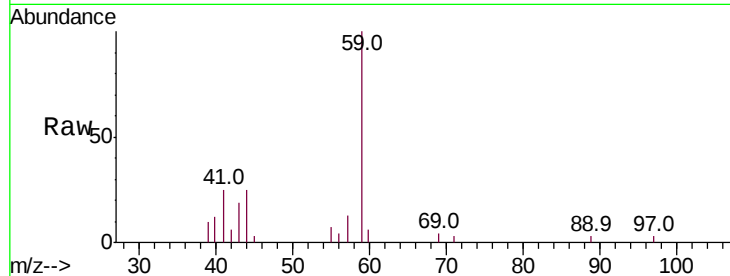
tert-Butyl Alcohol
 Concen: 43.966 ug/l m
 RT: 4.82 min Scan# 946
 Delta R.T. 0.01 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 59 Resp: 20422
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

Manual Integrations
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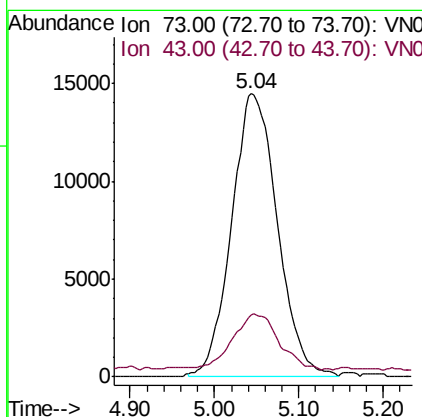
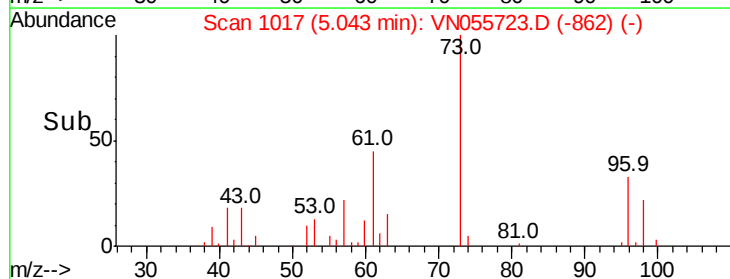
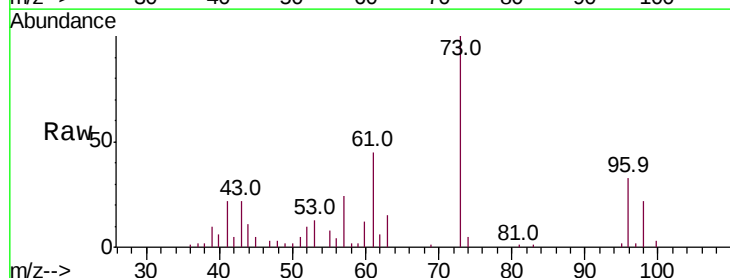
MMDadoda
 5/23/2019 12:30:49 PM

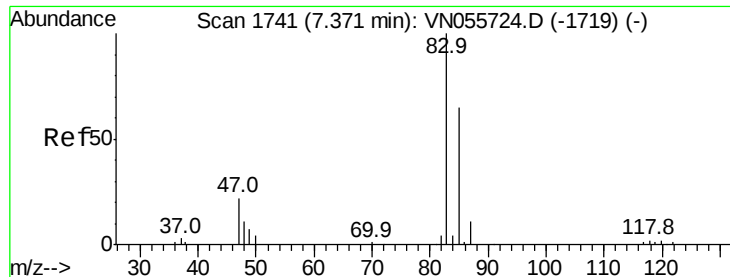


#24

Methyl tert-Butyl Ether
 Concen: 5.188 ug/l
 RT: 5.04 min Scan# 1017
 Delta R.T. -0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion: 73 Resp: 54708
 Ion Ratio Lower Upper
 73 100
 43 19.8 15.7 23.5





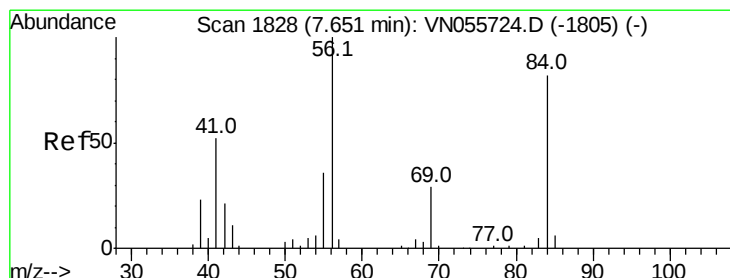
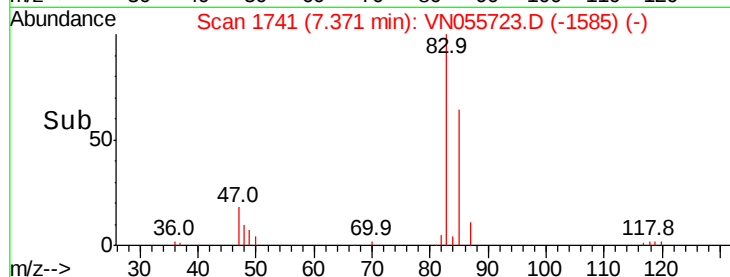
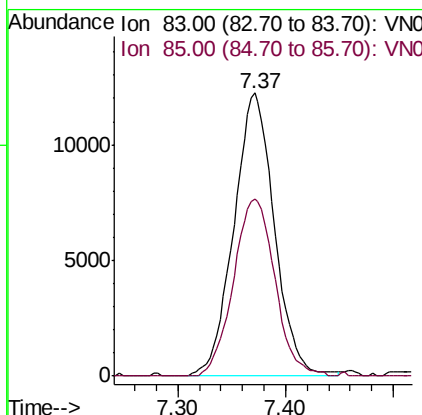
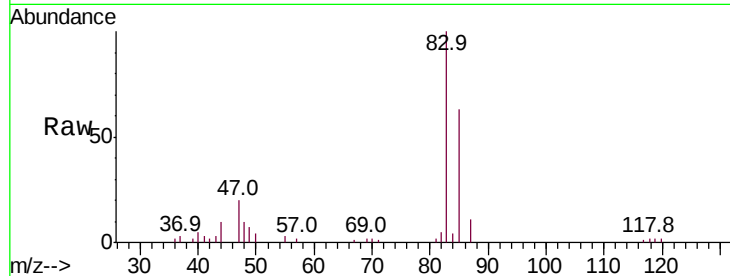
#25
Chloroform
Concen: 4.760 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 83 Resp: 32010
Ion Ratio Lower Upper
83 100
85 62.8 51.7 77.5

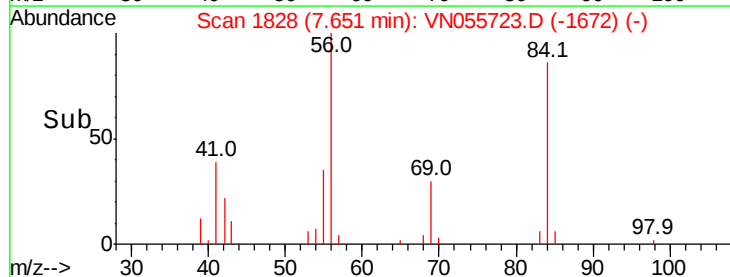
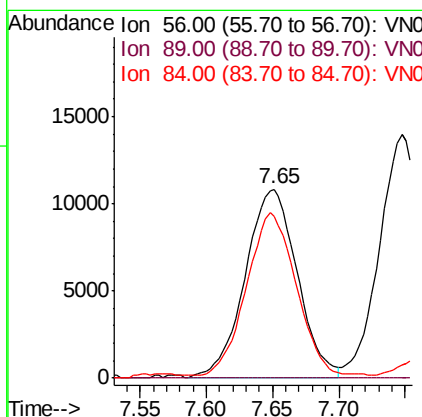
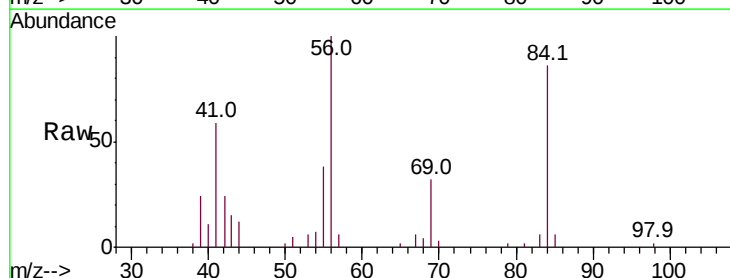
Manual Integrations
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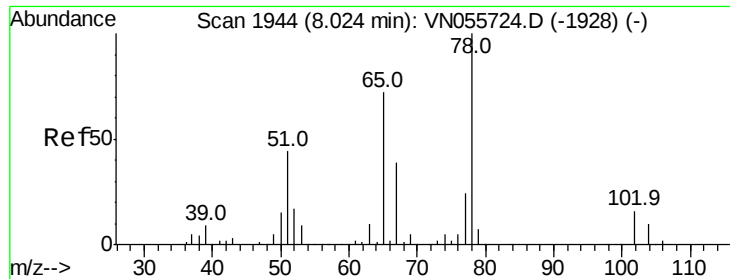
MMDadoda
5/23/2019 12:30:49 PM



#26
Cyclohexane
Concen: 4.733 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion: 56 Resp: 29671
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 81.3 67.2 100.8





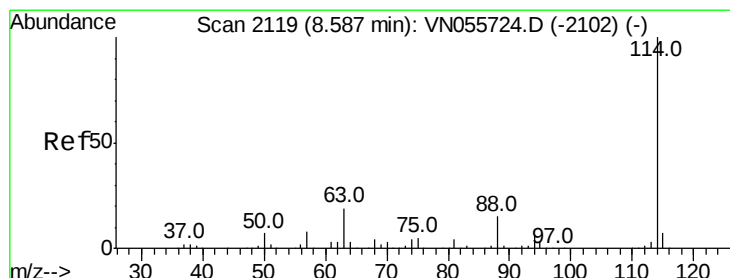
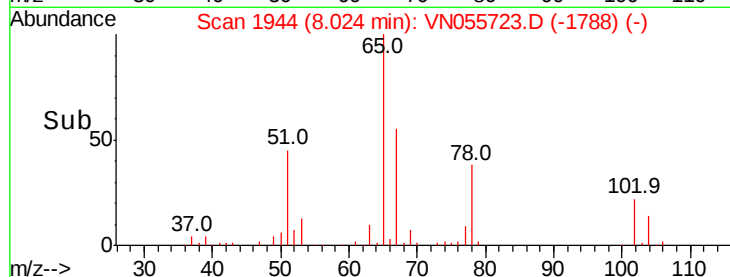
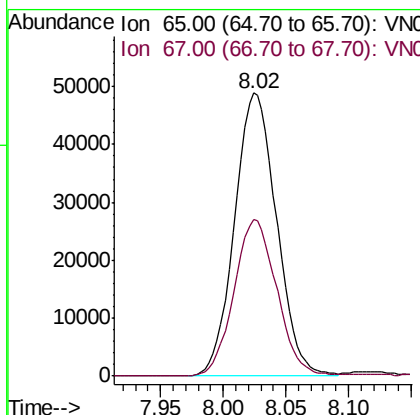
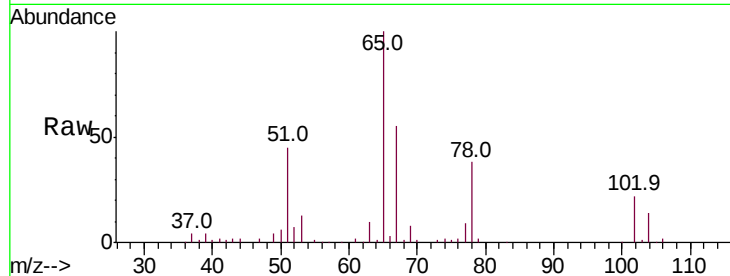
#27
 1,2-Dichloroethane-d4
 Concen: 25.269 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion: 65 Resp: 114044
 Ion Ratio Lower Upper
 65 100
 67 55.7 43.5 65.3

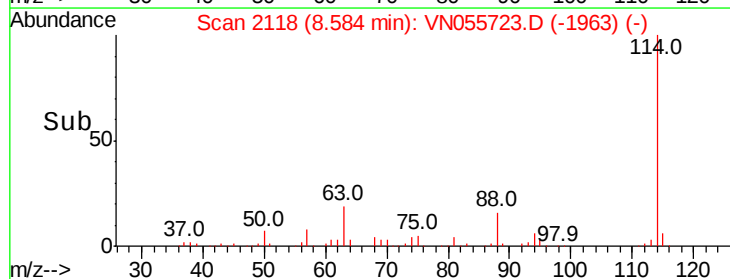
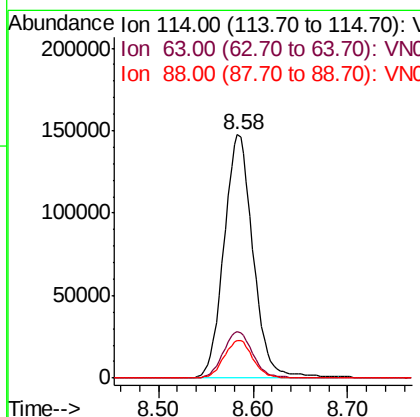
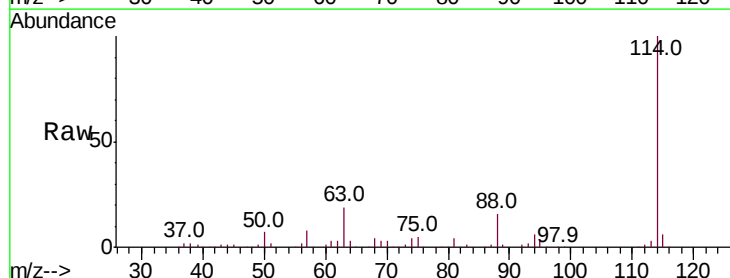
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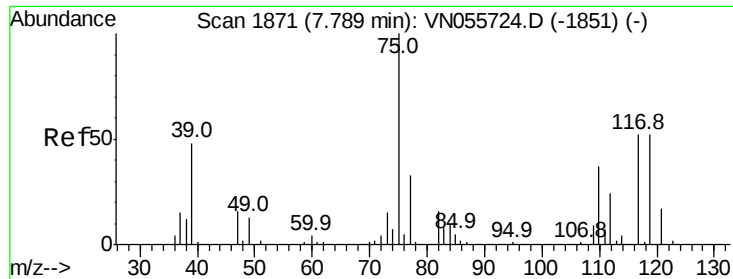
MMDadoda
 5/23/2019 12:30:49 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion: 114 Resp: 315145
 Ion Ratio Lower Upper
 114 100
 63 19.2 15.6 23.4
 88 15.6 12.3 18.5





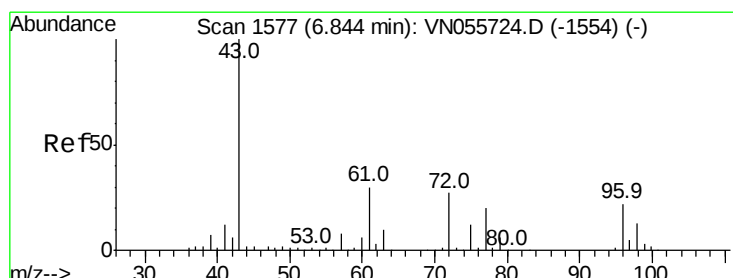
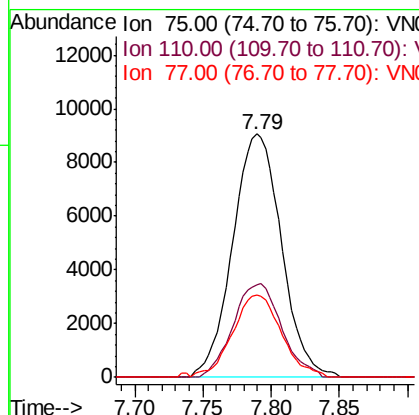
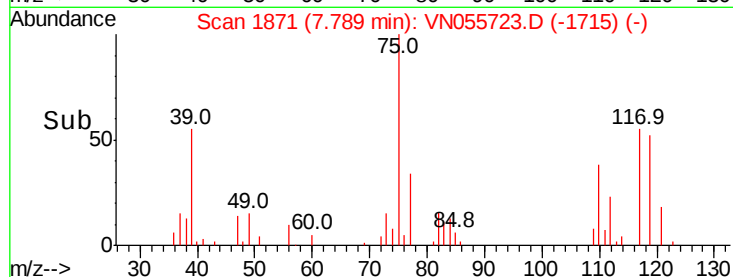
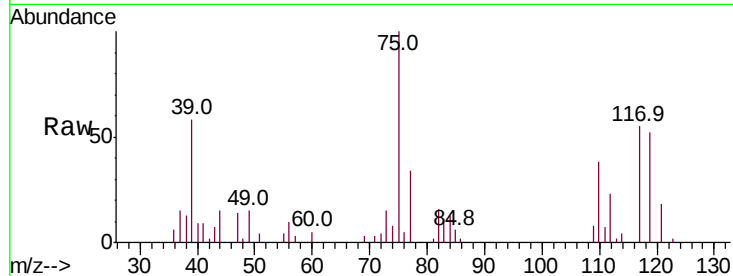
#29
 1,1-Dichloropropene
 Concen: 4.607 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
110	38.1	0.0	74.8
77	33.9	0.0	65.2

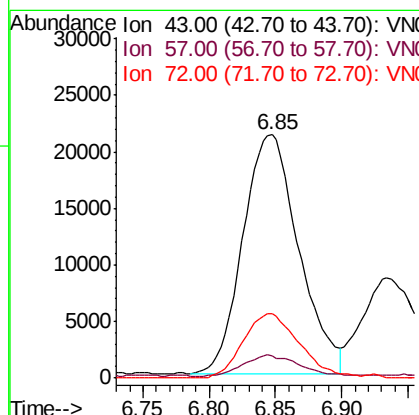
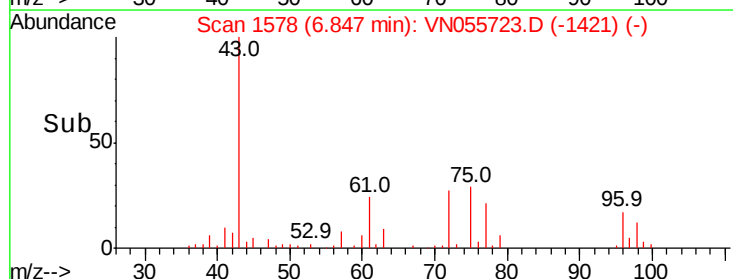
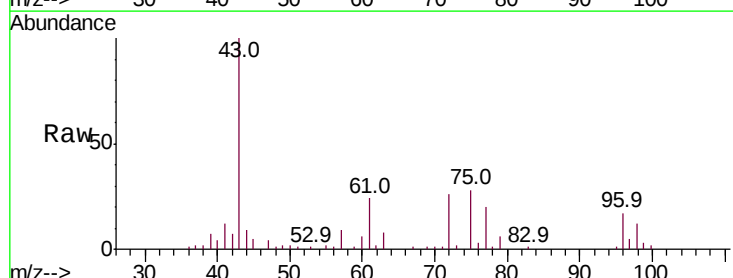
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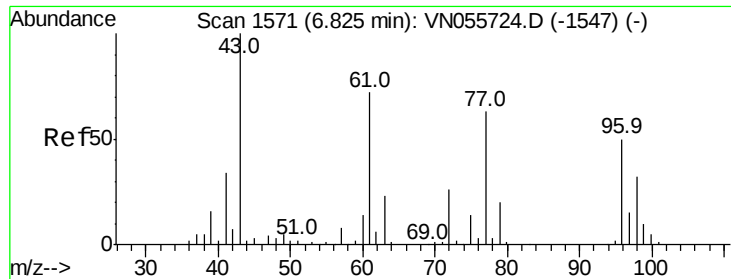
MMDadoda
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#30
 2-Butanone
 Concen: 29.653 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion	Ratio	Lower	Upper
43	100		
57	9.0	6.6	10.0
72	27.2	21.7	32.5





#31

2,2-Dichloropropane

Concen: 5.910 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 77 Resp: 28578

Ion Ratio Lower Upper

77 100

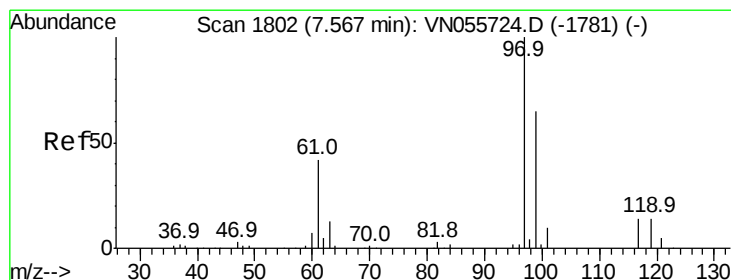
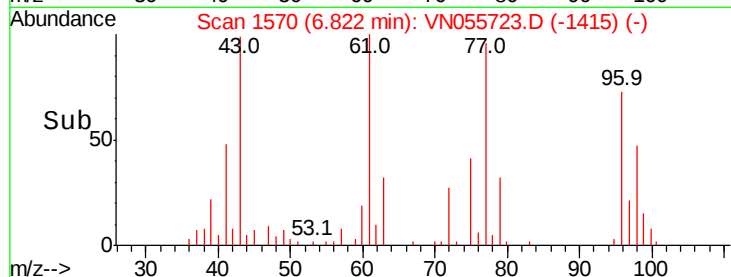
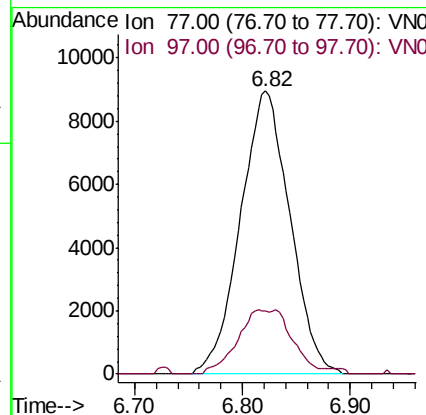
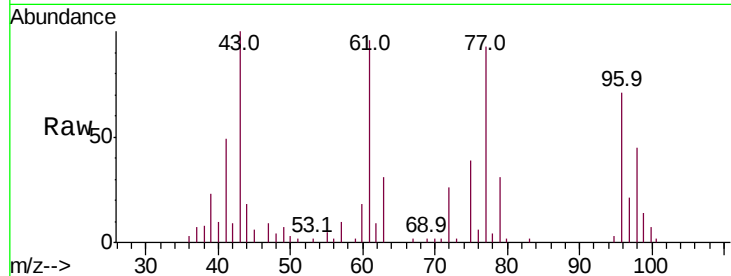
97 14.6 19.2 28.8#

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 5.117 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

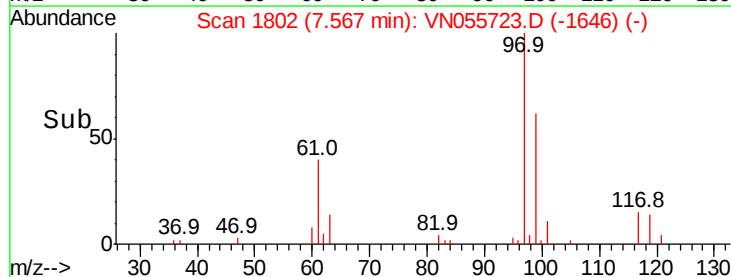
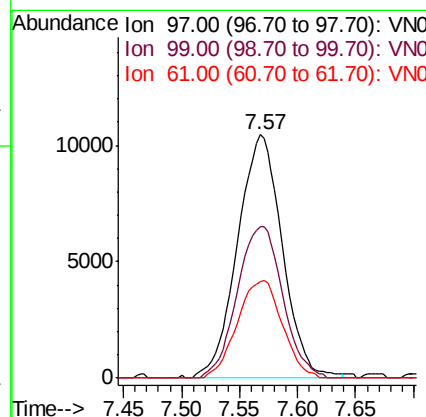
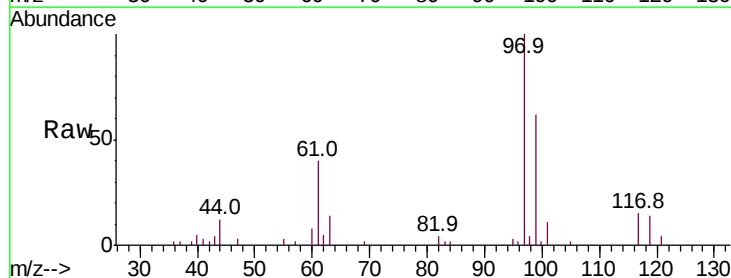
Tgt Ion: 97 Resp: 28121

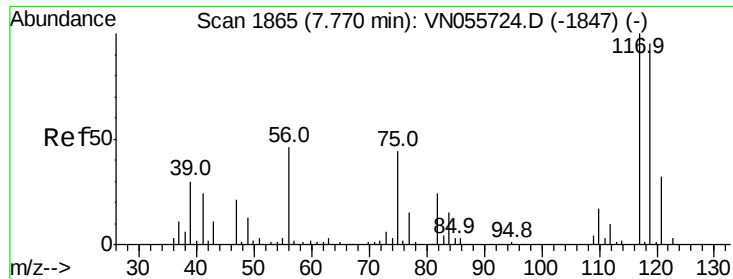
Ion Ratio Lower Upper

97 100

99 63.1 51.7 77.5

61 40.3 33.1 49.7





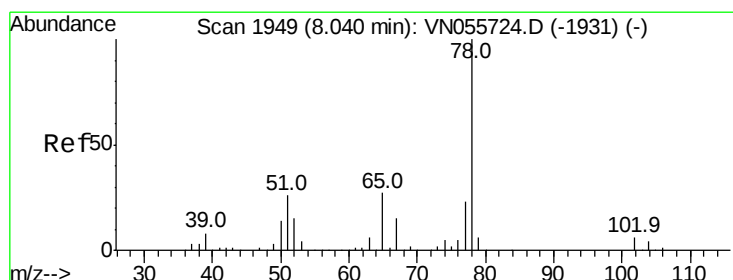
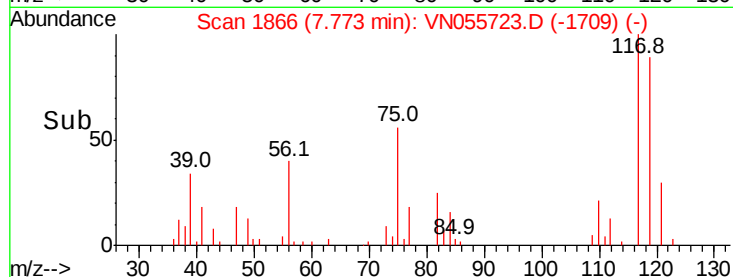
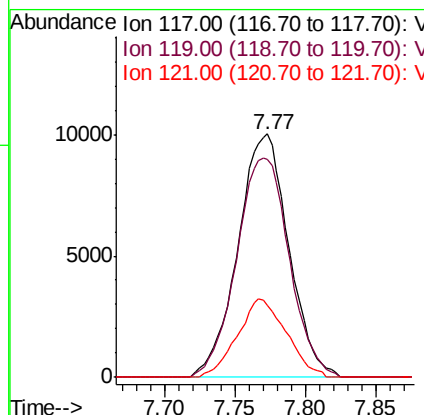
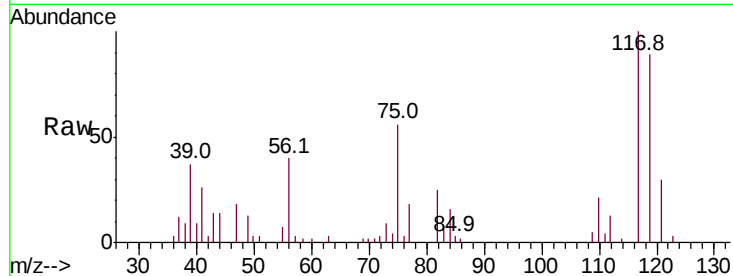
#33
Carbon Tetrachloride
Concen: 5.400 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
119	89.5	75.8	113.8
121	29.9	25.4	38.0

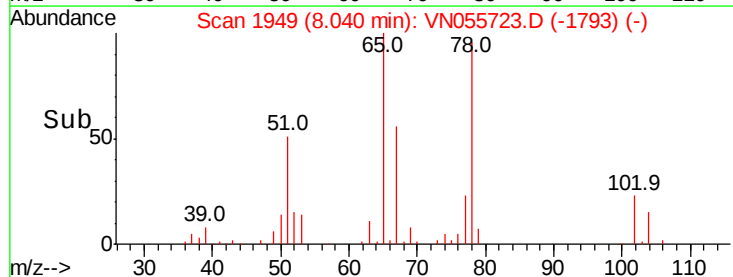
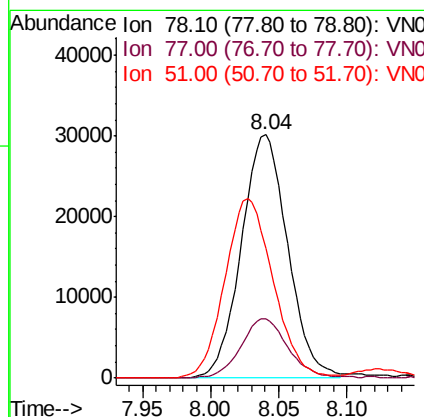
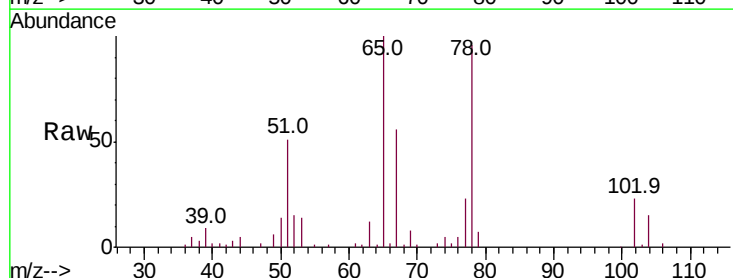
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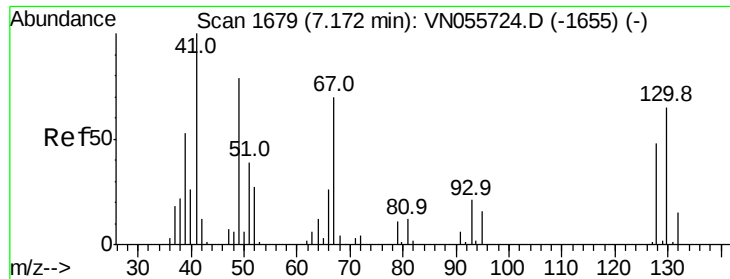
MMDadoda
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#34
Benzene
Concen: 4.851 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.8	28.2
51	52.1	20.6	31.0#





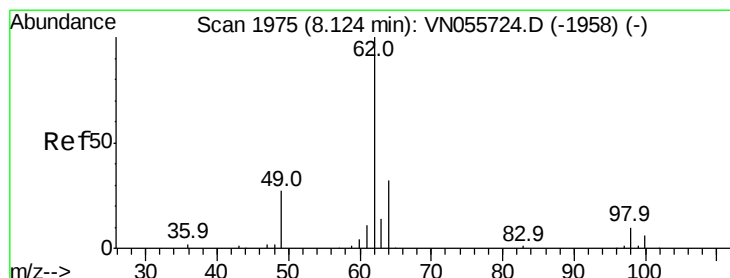
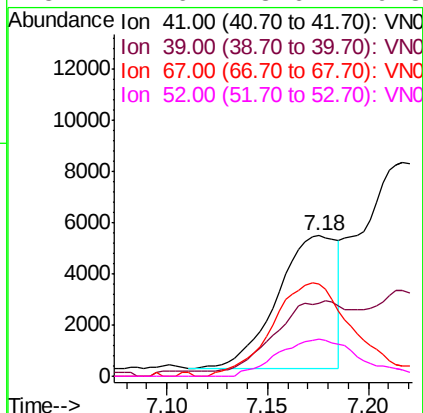
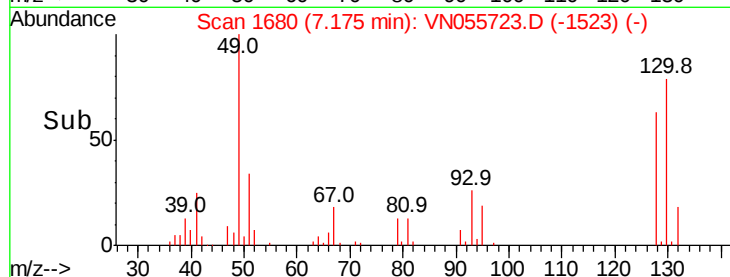
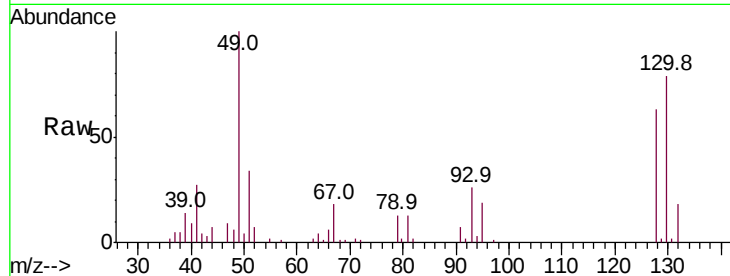
#35
Methacrylonitrile
Concen: 4.841 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:	41	Resp:	10802
Ion Ratio	Lower	Upper	
41	100		
39	50.8	26.7	80.1
67	66.5	34.9	104.7
52	27.6	13.6	40.8

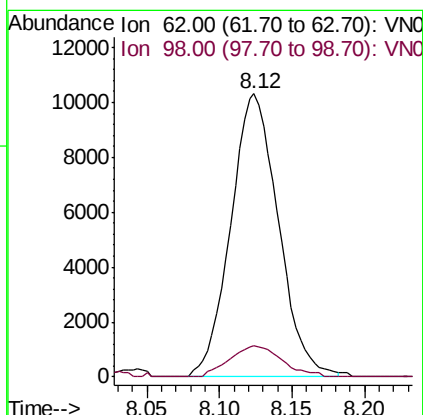
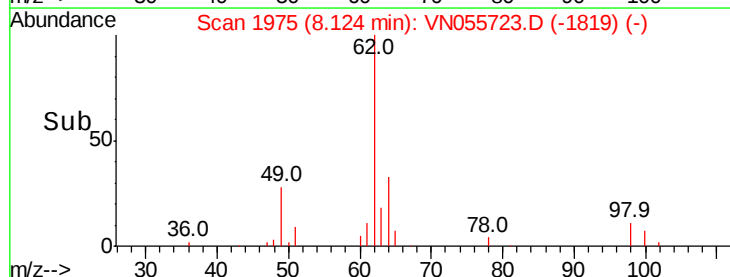
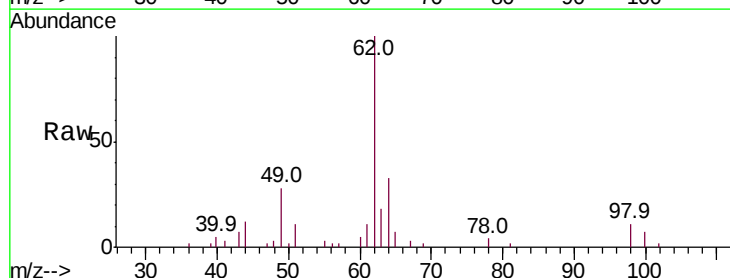
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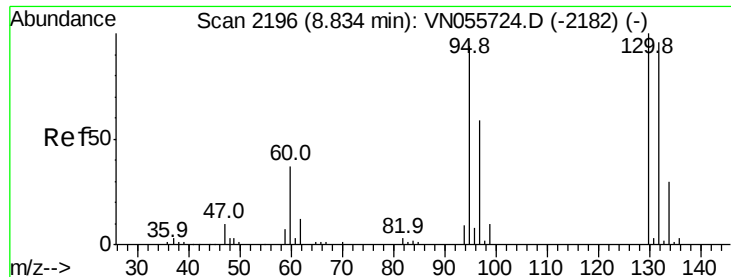
MMDadoda
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#36
1,2-Dichloroethane
Concen: 4.575 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion:	62	Resp:	23565
Ion Ratio	Lower	Upper	
62	100		
98	12.1	8.2	12.2





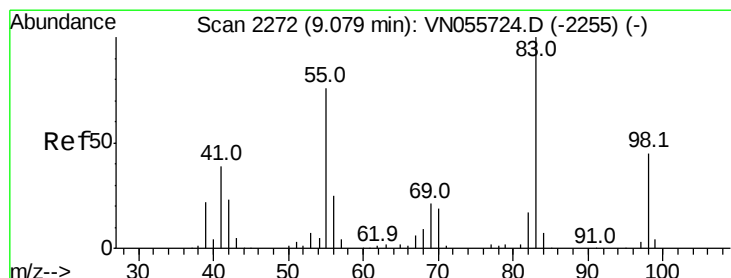
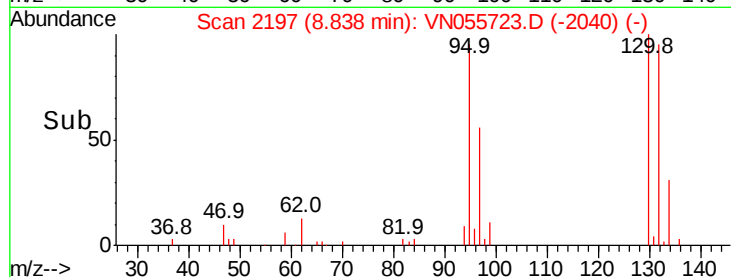
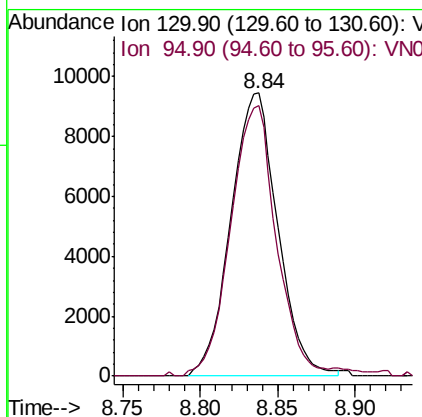
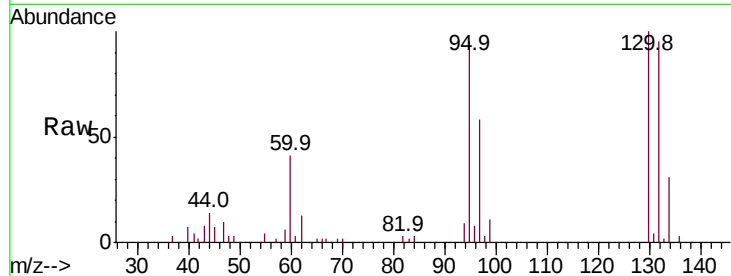
#37
 Trichloroethene
 Concen: 5.263 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion:130 Resp: 19913
 Ion Ratio Lower Upper
 130 100
 95 93.7 75.6 113.4

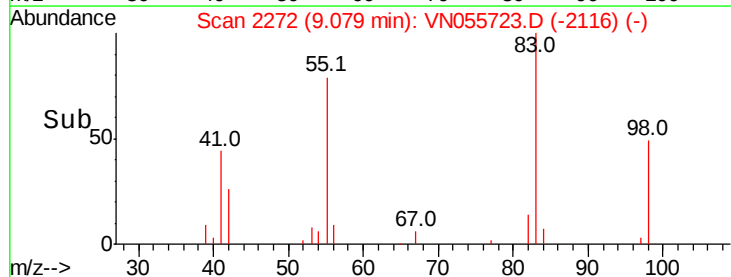
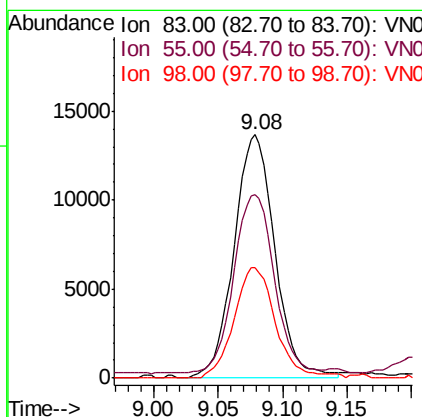
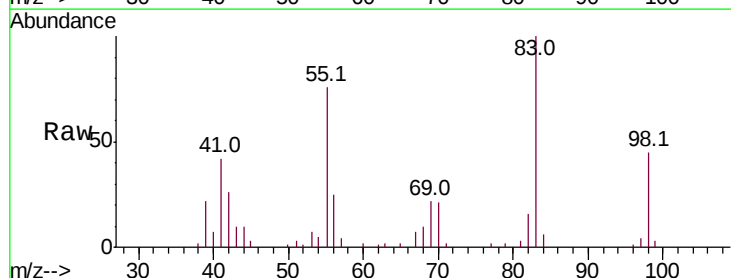
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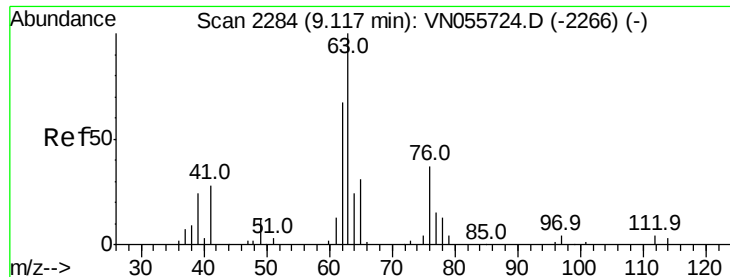
MMDadoda
 5/23/2019 12:30:49 PM



#38
 Methylcyclohexane
 Concen: 5.590 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion: 83 Resp: 30176
 Ion Ratio Lower Upper
 83 100
 55 72.1 37.8 113.4
 98 46.2 22.6 67.8





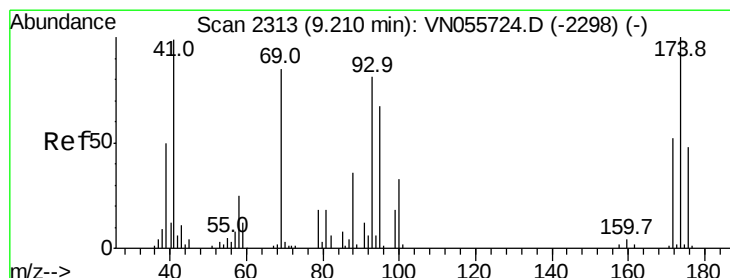
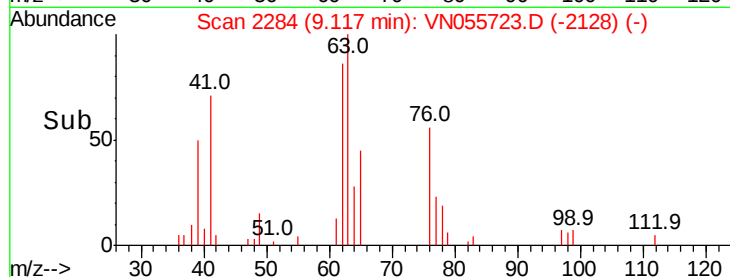
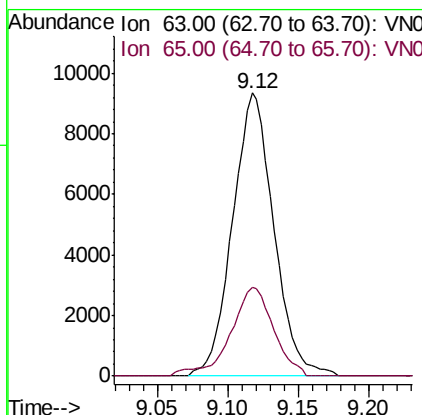
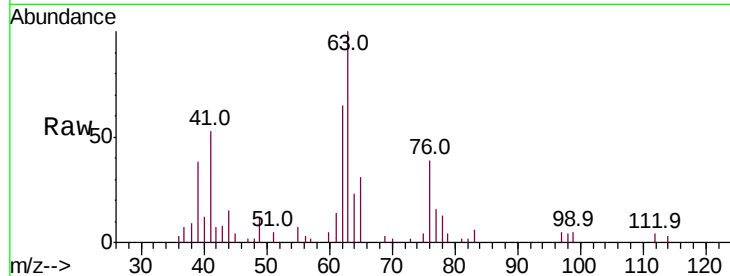
#39
 1,2-Dichloropropane
 Concen: 4.613 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	63	Resp	19133
Ion Ratio	100	Lower	Upper
63	100		
65	31.4	25.8	38.8

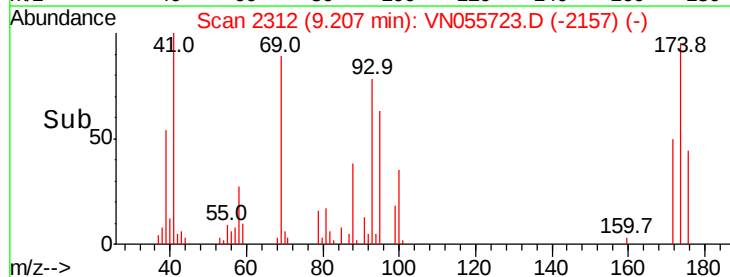
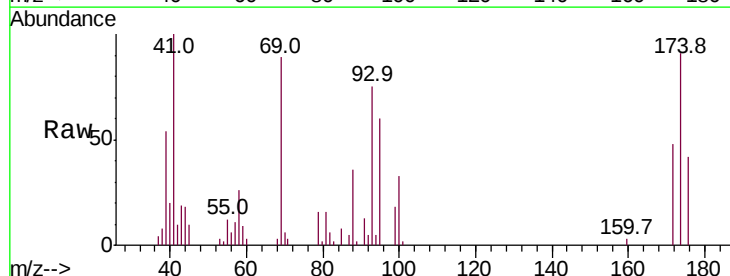
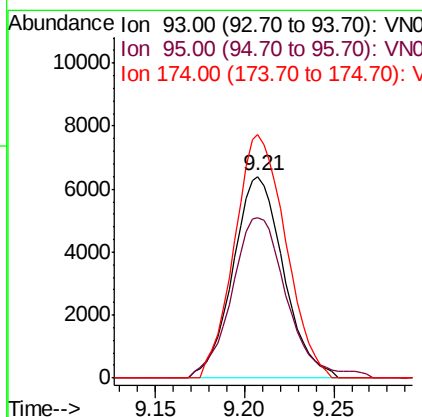
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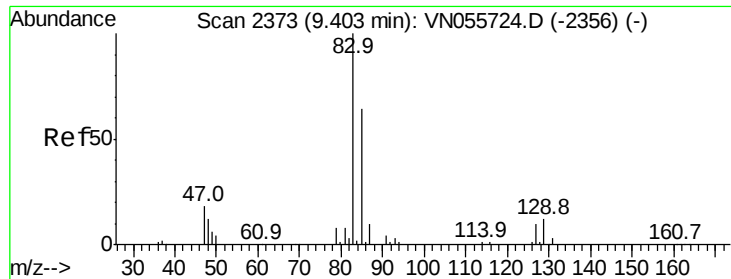
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#40
 Dibromomethane
 Concen: 5.200 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion	93	Resp	12680
Ion Ratio	100	Lower	Upper
93	100		
95	85.0	0.0	170.6
174	122.0	0.0	248.4





#41

Bromodichloromethane

Concen: 5.186 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

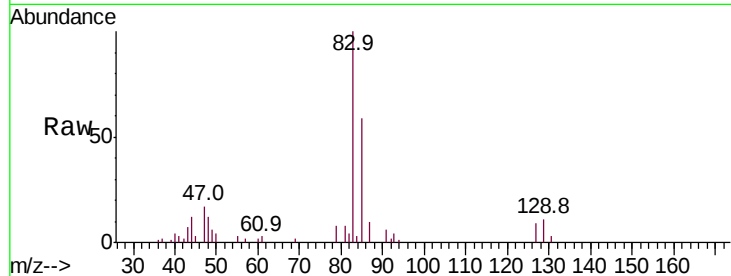
ClientSampleId :

VSTDIC005

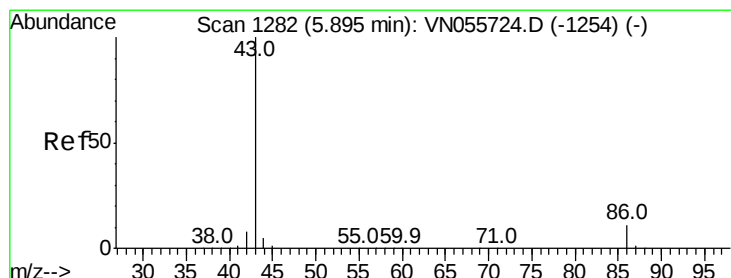
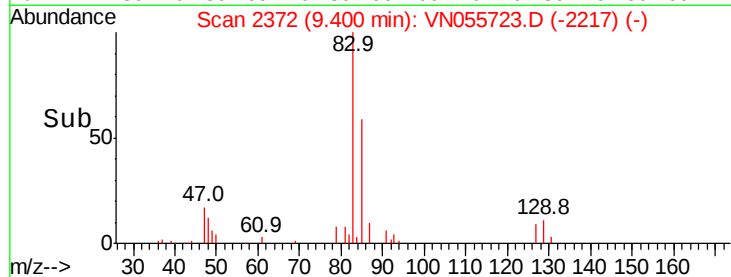
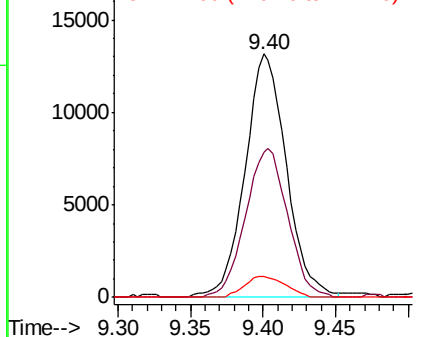
Tot Ion:	83	Resp:	26084
Ion	Ratio	Lower	Upper
83	100		
85	59.4	51.4	77.0
127	8.5	7.7	11.5

Manual Integrations
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Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 85.00 (84.70 to 85.70): VNO
Ion 127.00 (126.70 to 127.70): VNO



#42

Vinyl Acetate

Concen: 24.546 ug/l

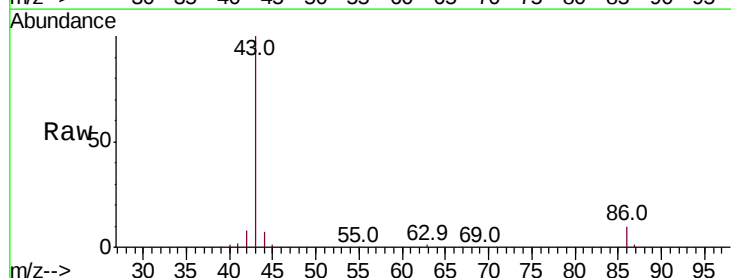
RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

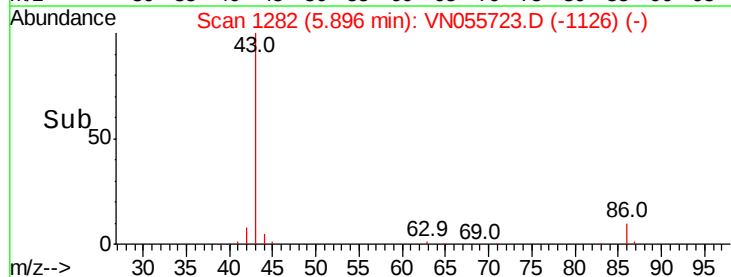
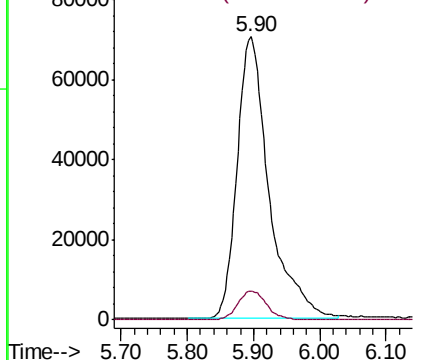
Lab File: VN055723.D

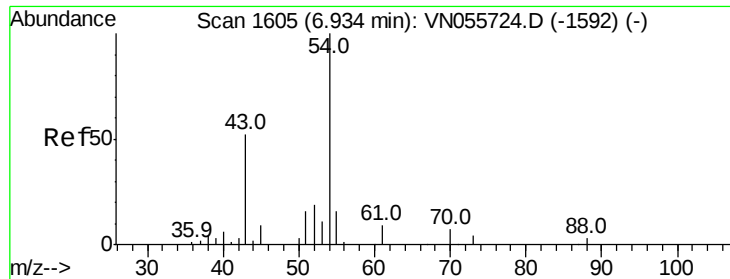
Acq: 22 May 2019 16:57

Tgt Ion:	43	Resp:	236817
Ion	Ratio	Lower	Upper
43	100		
86	9.2	7.4	11.2



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 86.00 (85.70 to 86.70): VNO





#43

Ethyl Acetate

Concen: 5.847 ug/l

RT: 6.93 min Scan# 1605

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 25173

Ion Ratio Lower Upper

43 100

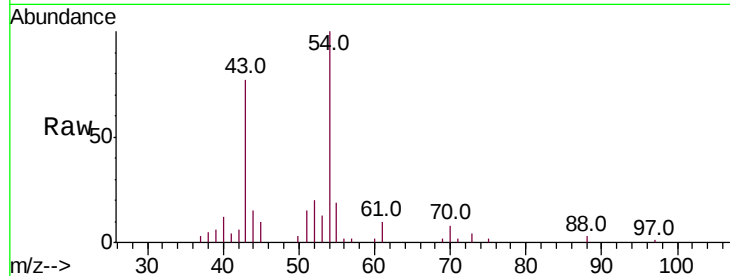
45 5.4 0.0 0.0#

Manual Integrations

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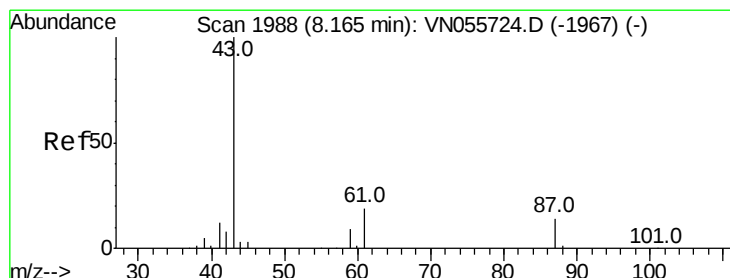
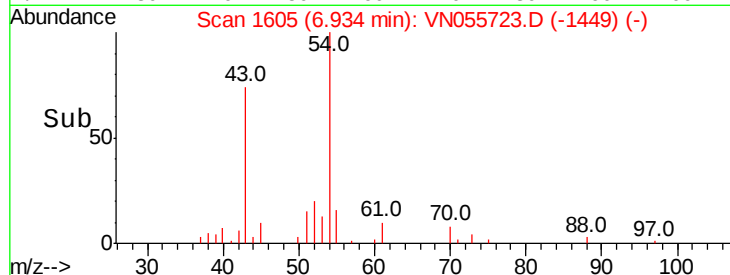
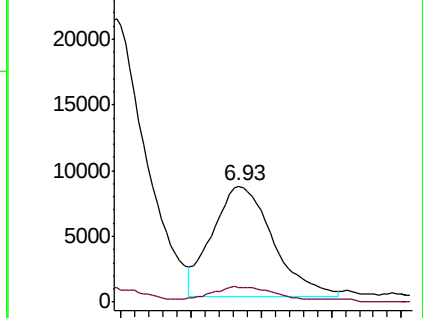
MMDadoda

5/23/2019 12:30:49 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#44

Isopropyl Acetate

Concen: 5.120 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN055723.D

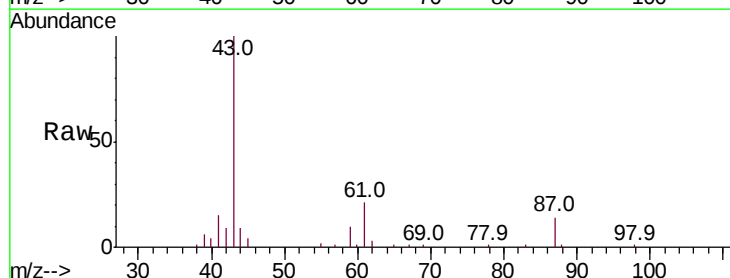
Acq: 22 May 2019 16:57

Tgt Ion: 43 Resp: 39250

Ion Ratio Lower Upper

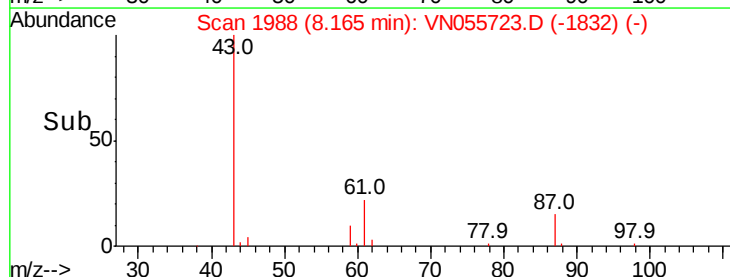
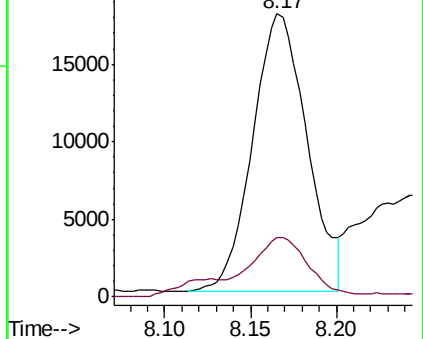
43 100

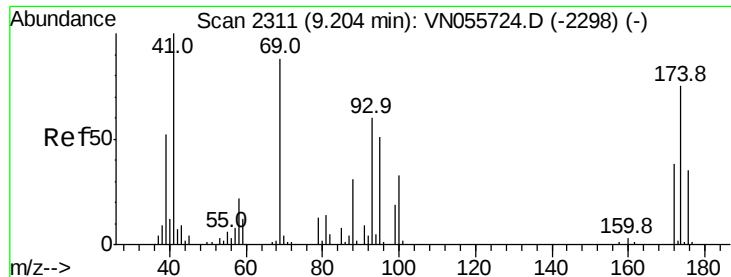
61 20.7 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





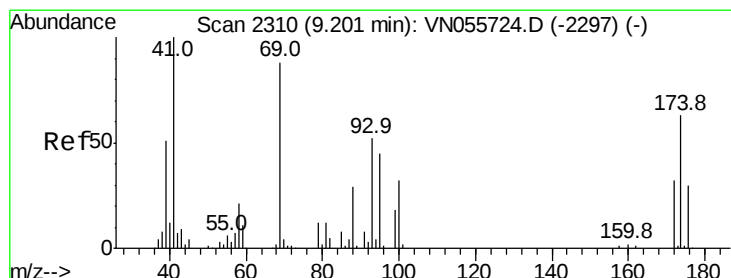
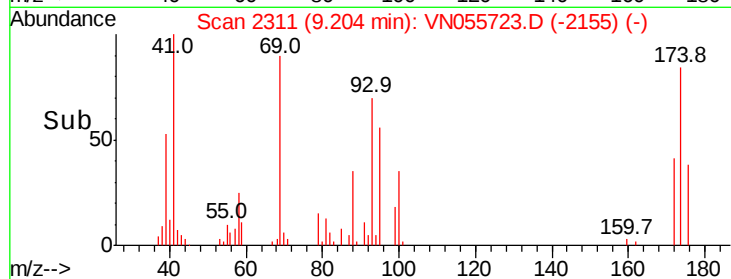
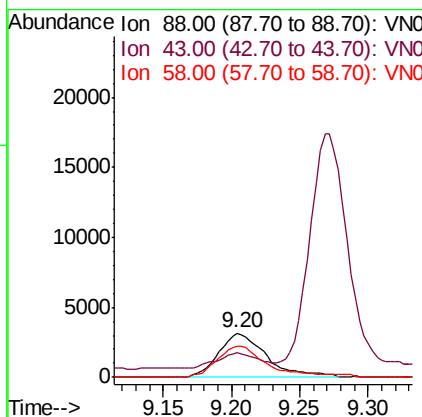
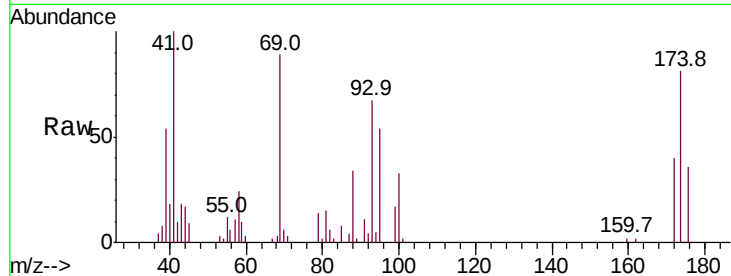
#45
 1,4-Dioxane
 Concen: 167.070 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	88	Resp	7672
Ion	Ratio	Lower	Upper
88	100		
43	30.1	20.5	30.7
58	72.8	56.1	84.1

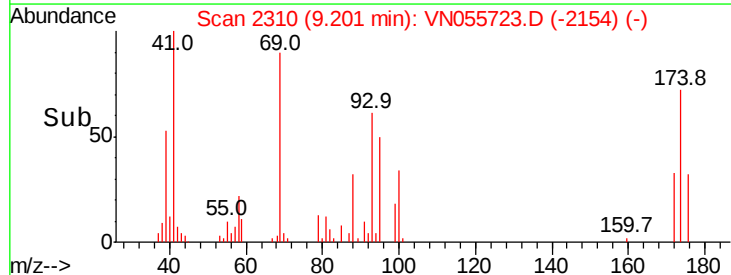
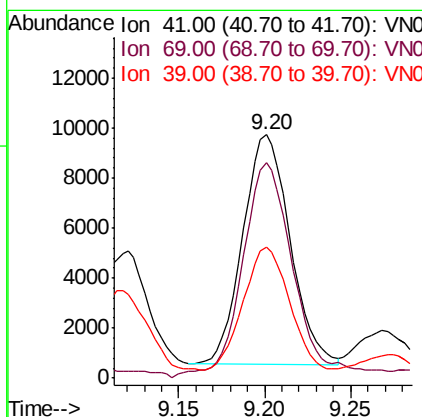
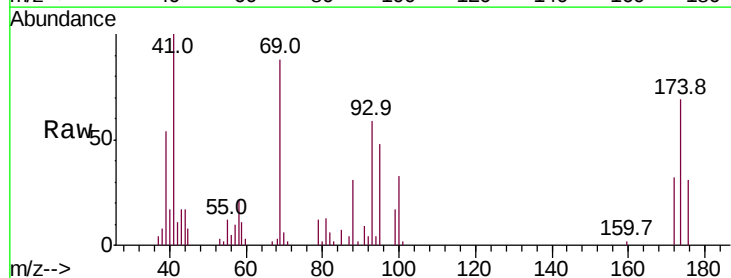
Manual Integrations
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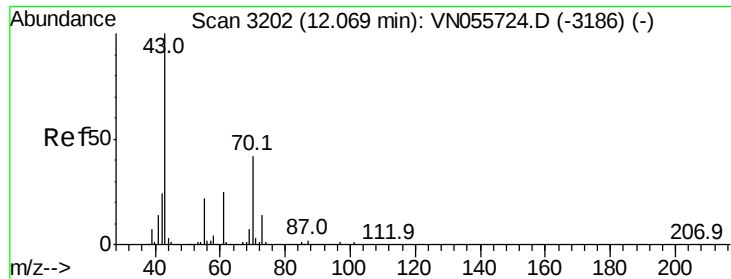
MMDadoda
 5/23/2019 12:30:49 PM



#46
 Methyl methacrylate
 Concen: 4.848 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion	41	Resp	17542
Ion	Ratio	Lower	Upper
41	100		
69	90.8	43.8	131.4
39	52.9	25.6	76.6





#47

n-amvl Acetate

Concen: 5.449 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 31268

Ion Ratio Lower Upper

43 100

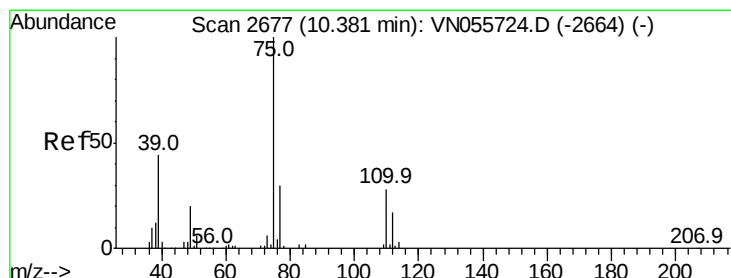
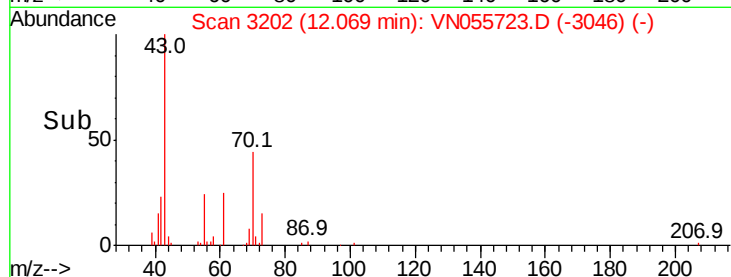
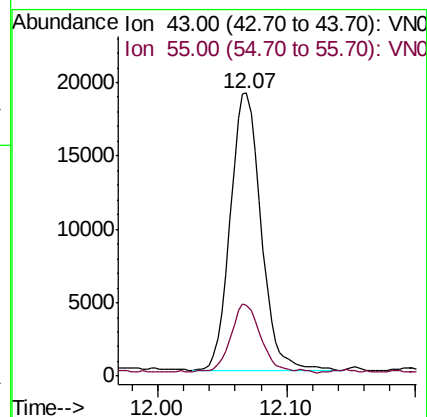
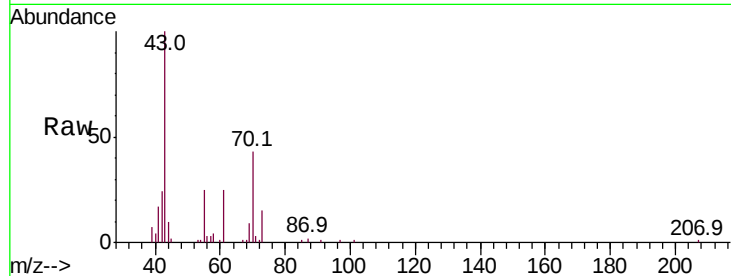
55 22.9 17.8 26.6

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#48

t-1,3-Dichloropropene

Concen: 5.148 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN055723.D

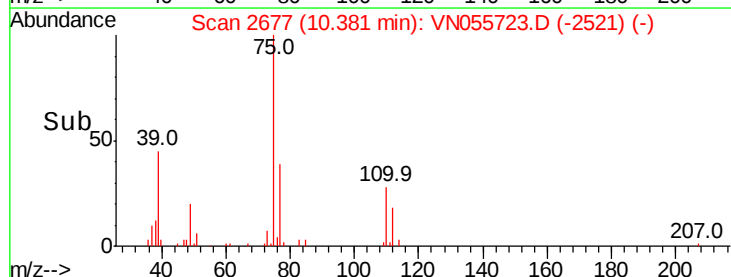
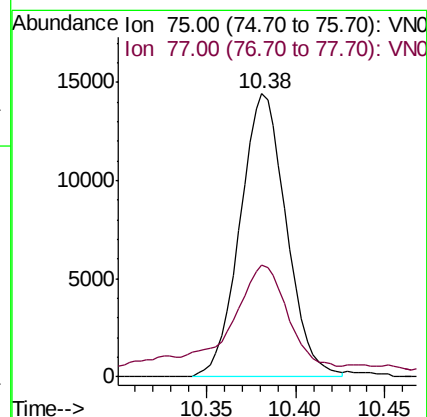
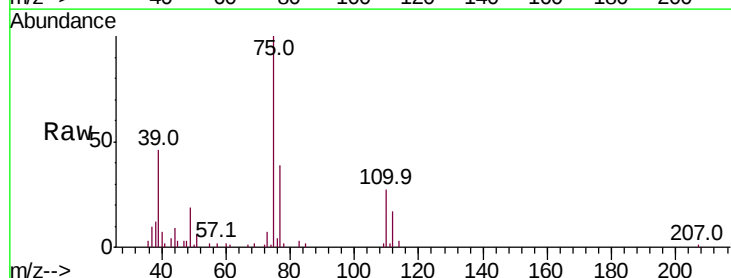
Acq: 22 May 2019 16:57

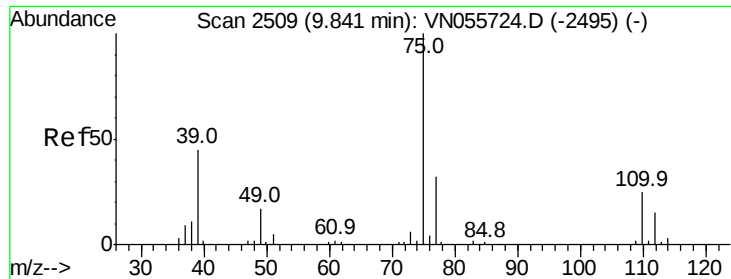
Tgt Ion: 75 Resp: 26158

Ion Ratio Lower Upper

75 100

77 35.7 25.2 37.8





#49

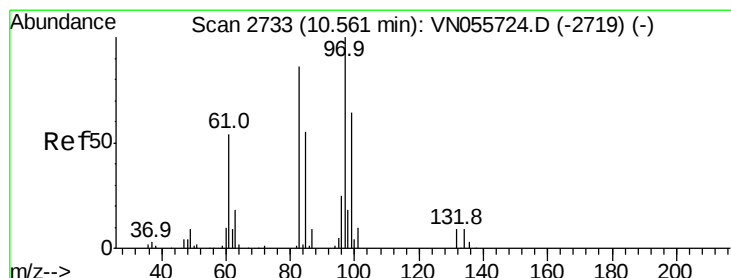
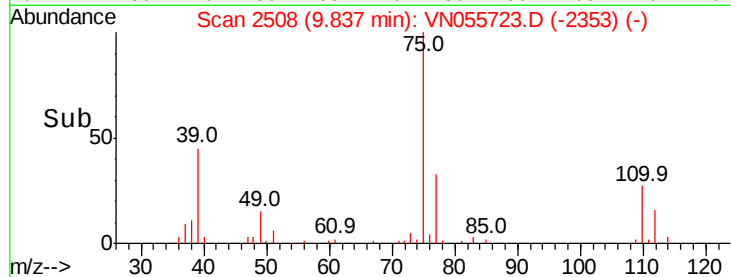
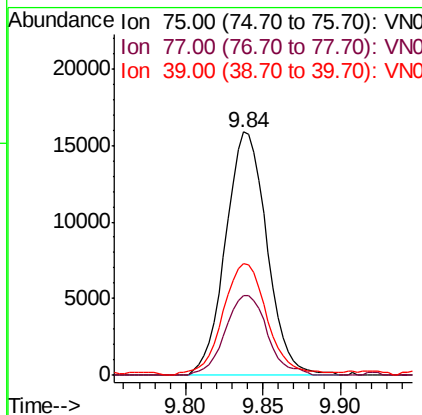
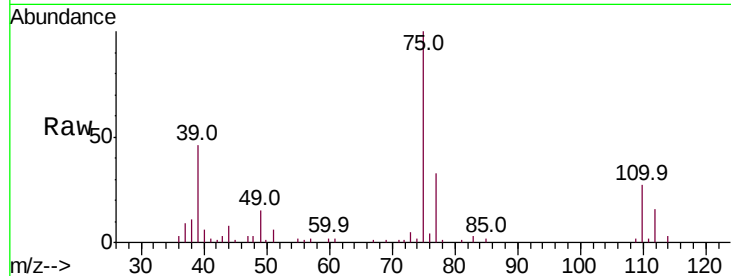
cis-1,3-Dichloropropene
Concen: 5.062 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.6	26.0	39.0
39	44.6	36.2	54.4

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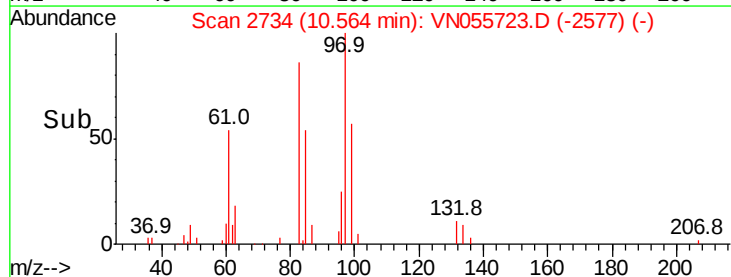
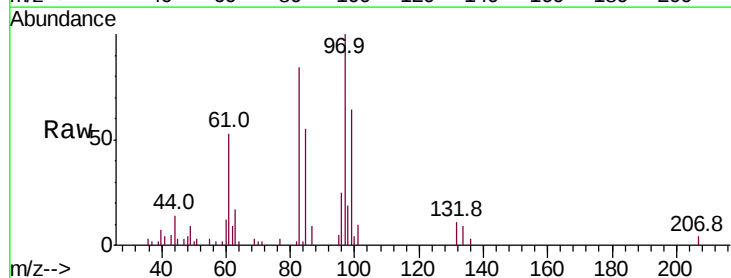
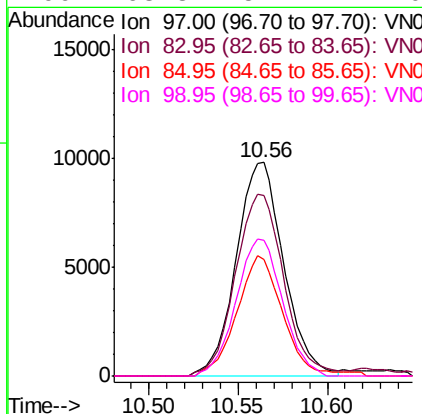
MMDadoda
5/23/2019 12:30:49 PM

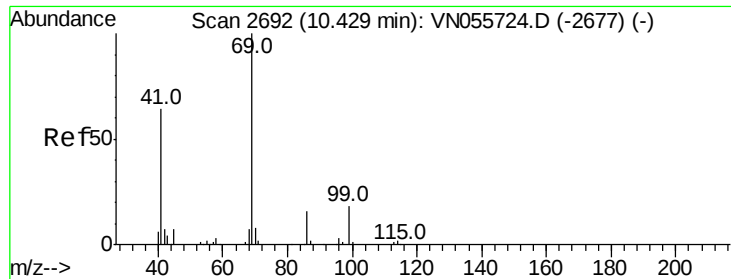


#50

1,1,2-Trichloroethane
Concen: 5.405 ug/l
RT: 10.56 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.4	68.9	103.3
85	54.7	44.3	66.5
99	63.8	51.4	77.0





#51

Ethyl methacrylate

Concen: 5.765 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

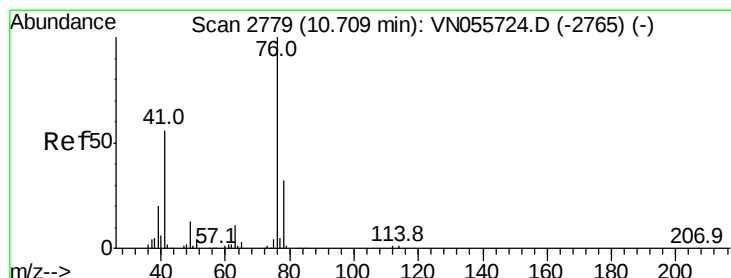
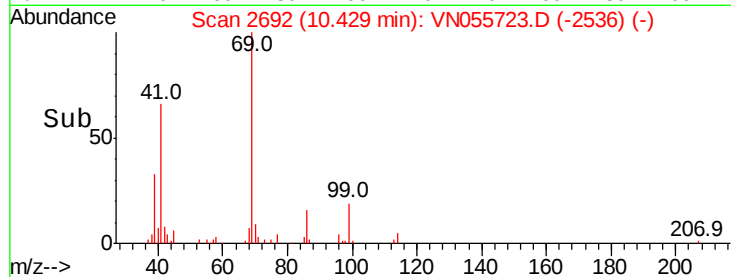
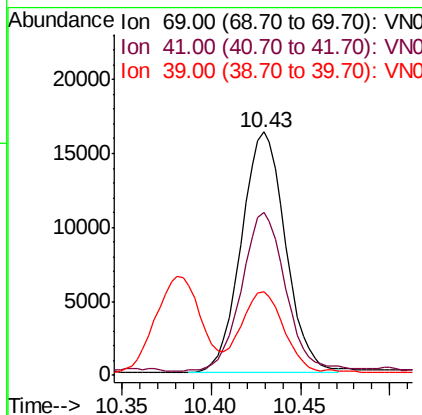
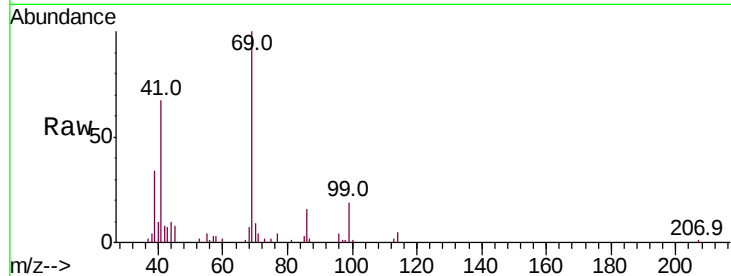
ClientSampled :

VSTDIC005

Tot Ion:	69	Resp:	27926
Ion	Ratio	Lower	Upper
69	100		
41	65.8	31.9	95.7
39	32.8	15.7	47.0

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 4.906 ug/l

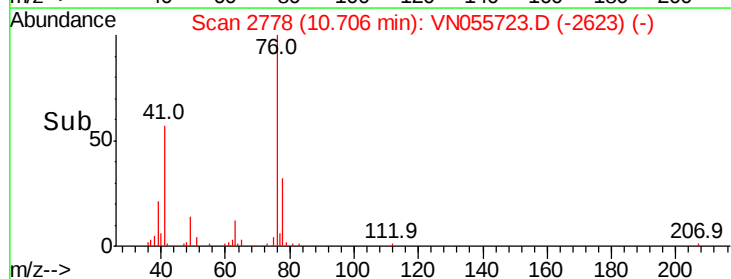
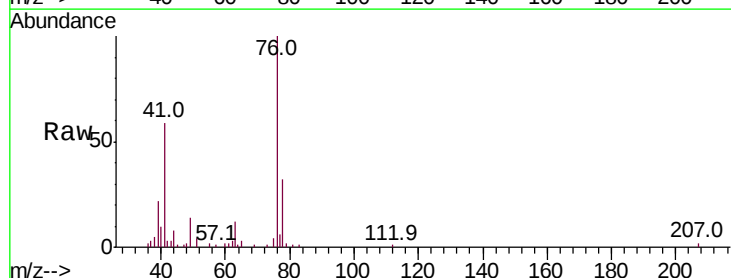
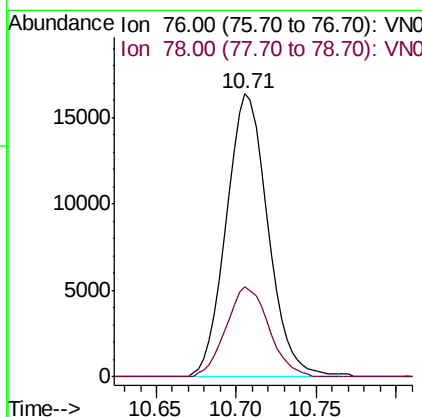
RT: 10.71 min Scan# 2778

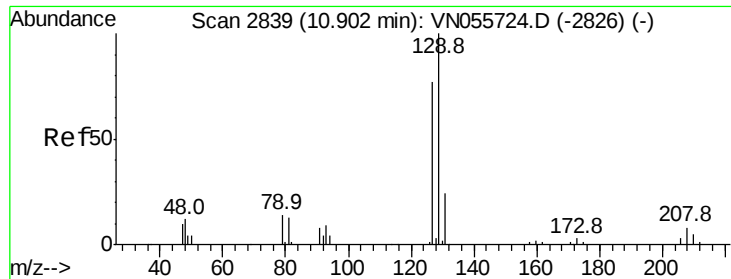
Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Tgt Ion:	76	Resp:	29148
Ion	Ratio	Lower	Upper
76	100		
78	32.6	0.0	65.0





#53

Dibromochloromethane

Concen: 5.751 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:129 Resp: 20820

Ion Ratio Lower Upper

129 100

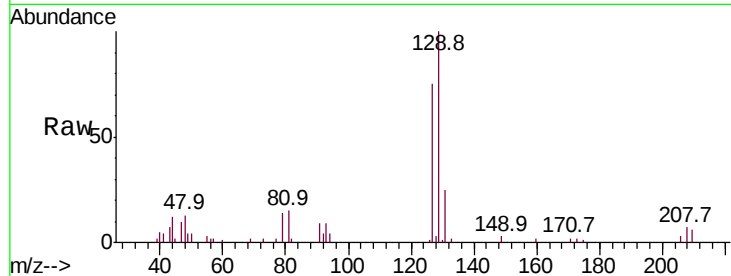
127 75.6 39.2 117.6

Manual Integrations

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

12000

10000

8000

6000

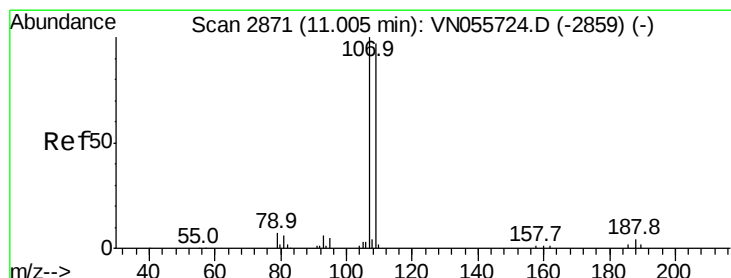
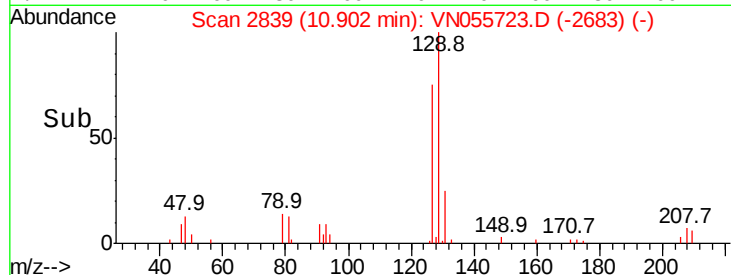
4000

2000

0

10.85 10.90 10.95

Time-->



#54

1,2-Dibromoethane

Concen: 5.442 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN055723.D

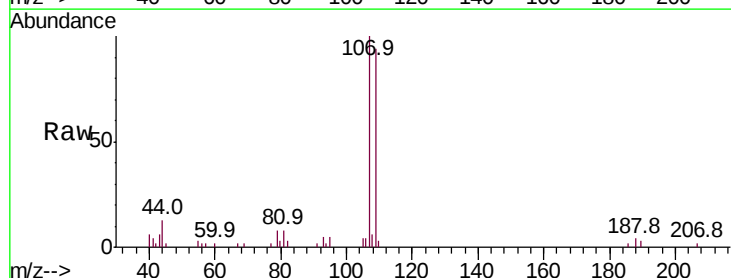
Acq: 22 May 2019 16:57

Tgt Ion:107 Resp: 18234

Ion Ratio Lower Upper

107 100

109 94.0 76.6 115.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10000

8000

6000

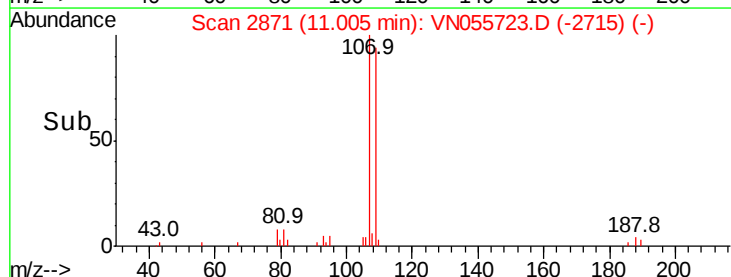
4000

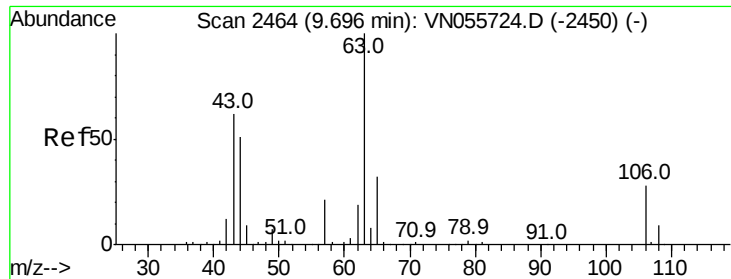
2000

0

10.95 11.00 11.05

Time-->





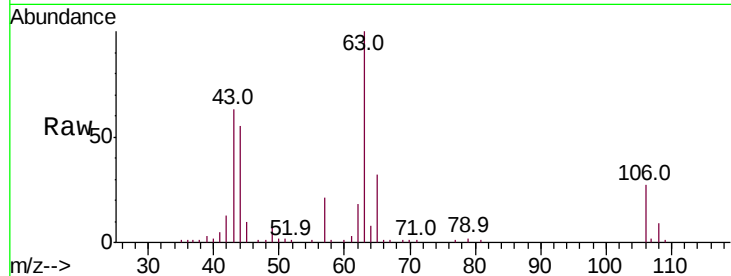
#55
2-Chloroethyl vinyl ether
Concen: 33.603 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.0	25.4	38.0
106	27.1	22.1	33.1

Manual Integrations
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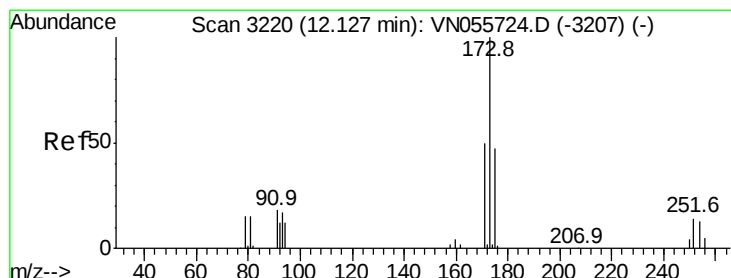
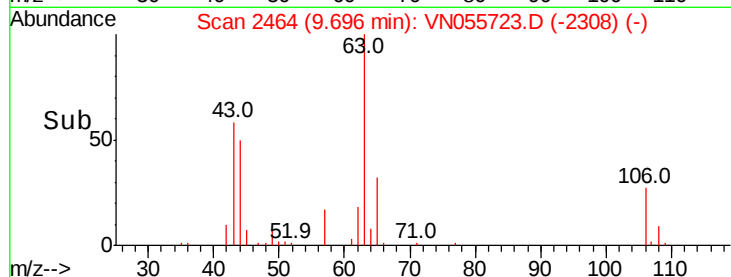
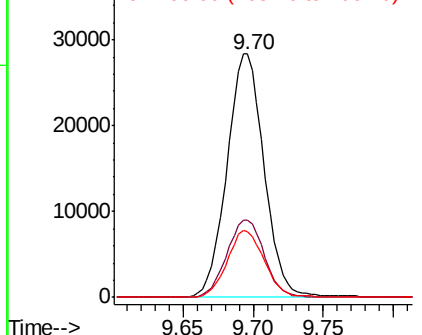


Abundance

Ion 63.00 (62.70 to 63.70): VN055723.D (-2308) (-)

Ion 65.00 (64.70 to 65.70): VN055723.D (-2308) (-)

Ion 106.00 (105.70 to 106.70): VN055723.D (-2308) (-)



#56
Bromoform
Concen: 6.655 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

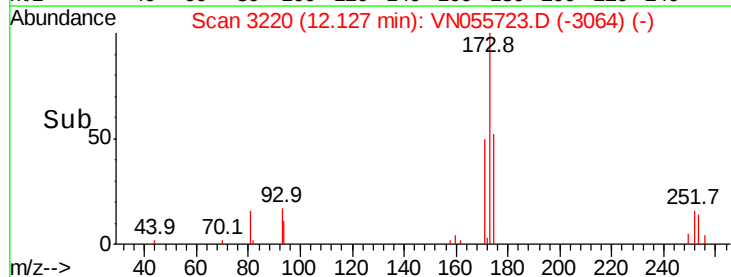
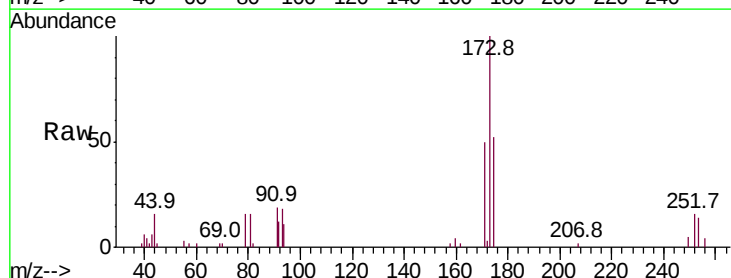
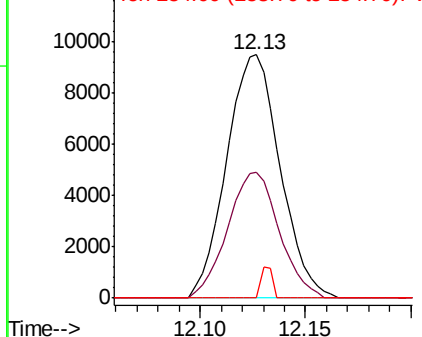
Tgt Ion	Ratio	Lower	Upper
173	100		
175	50.0	38.5	57.7
254	2.8	9.4	14.0

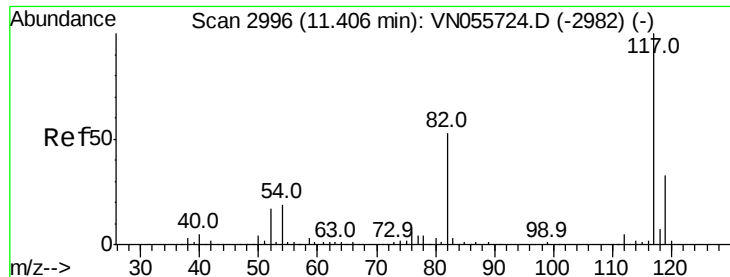
Abundance

Ion 173.00 (172.70 to 173.70): VN055723.D (-3064) (-)

Ion 175.00 (174.70 to 175.70): VN055723.D (-3064) (-)

Ion 254.00 (253.70 to 254.70): VN055723.D (-3064) (-)





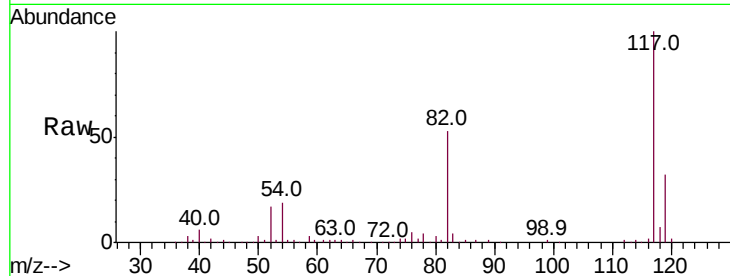
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
117	100	266511		
82	52.9	42.6	64.0	
119	32.3	25.9	38.9	

Manual Integrations
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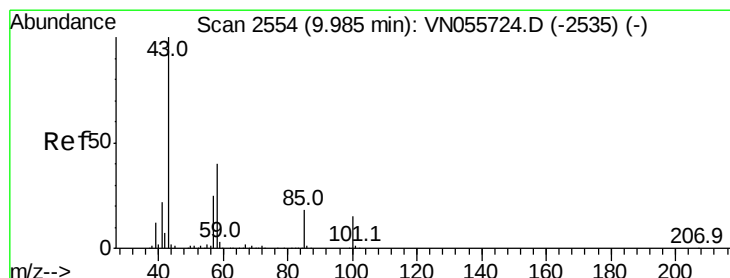
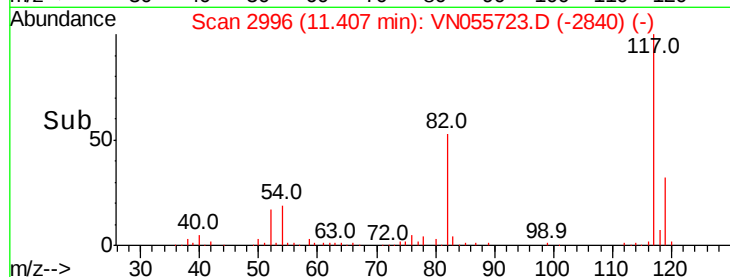
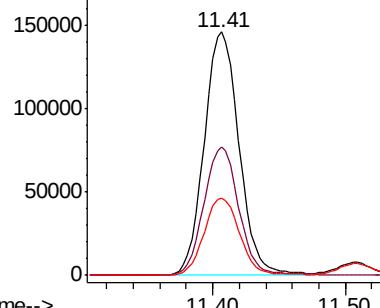


Abundance

Ion 117.00 (116.70 to 117.70): V

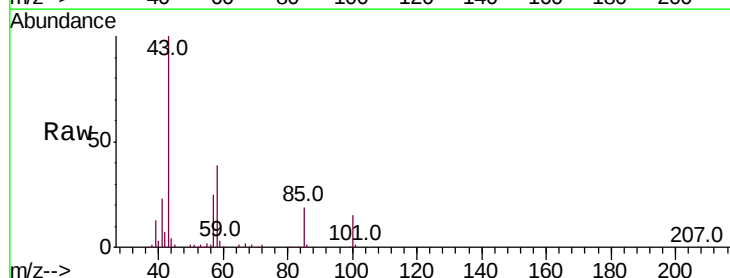
Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#58
4-Methyl-2-Pentanone
Concen: 28.449 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	120302		
58	39.5	31.7	47.5	
85	18.9	14.5	21.7	

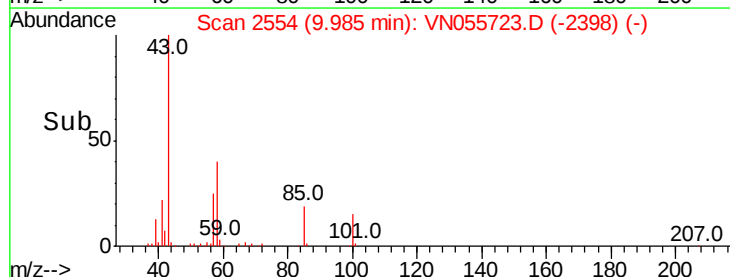
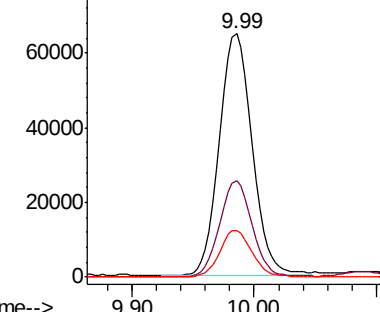


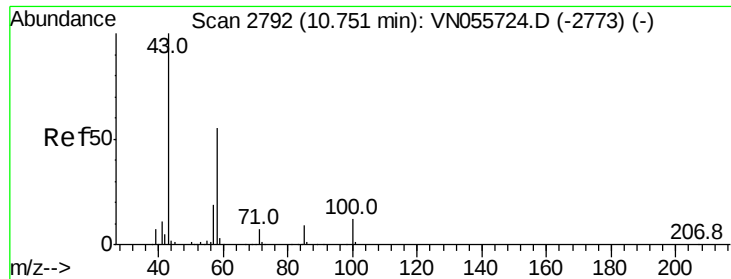
Abundance

Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V

Ion 85.00 (84.70 to 85.70): V





#59

2-Hexanone

Concen: 30.693 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

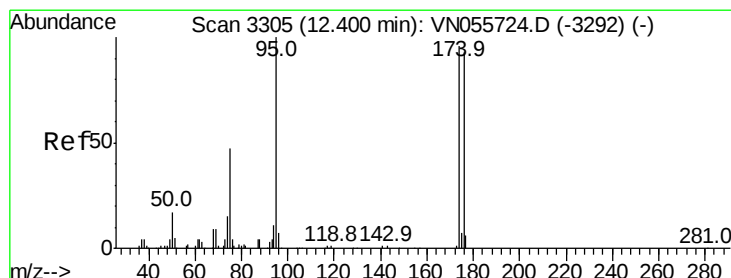
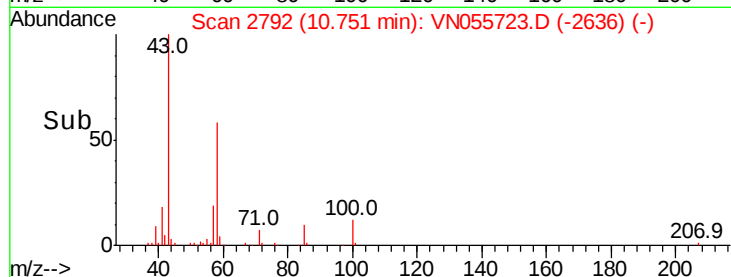
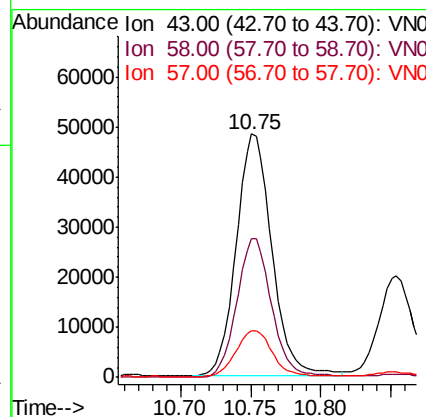
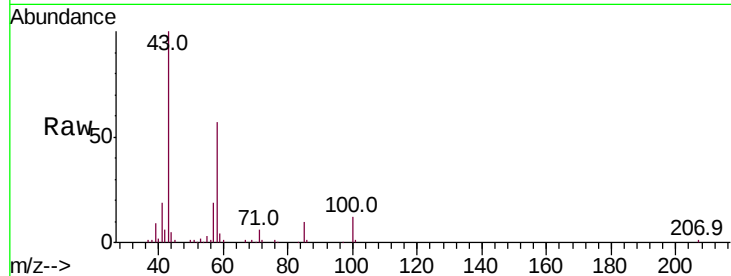
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	85021
Ion	Ratio	Lower	Upper
43	100		
58	56.7	44.8	67.2
57	19.5	15.3	22.9

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#60

4-Bromofluorobenzene

Concen: 28.066 ug/l

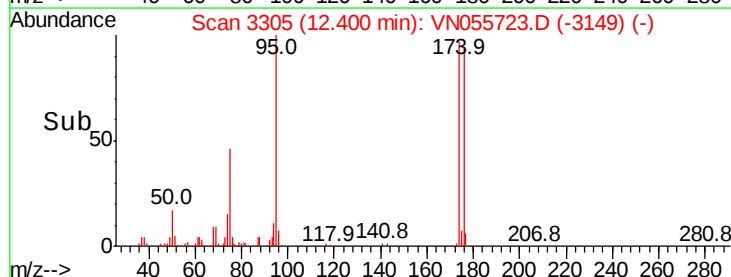
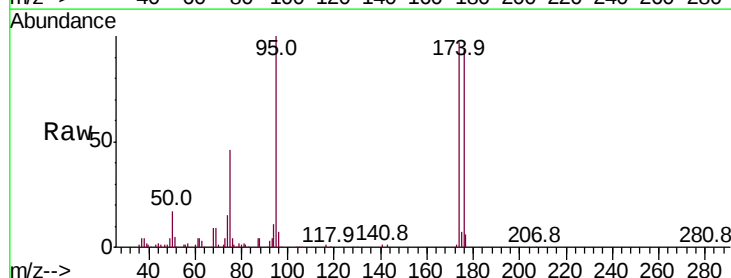
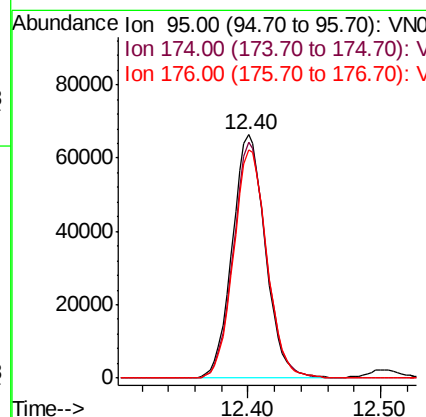
RT: 12.40 min Scan# 3305

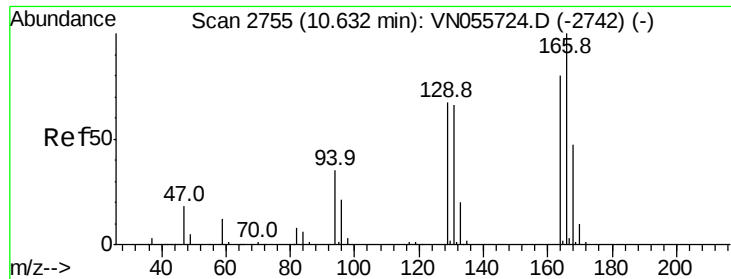
Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Tgt Ion:	95	Resp:	115537
Ion	Ratio	Lower	Upper
95	100		
174	95.8	75.7	113.5
176	93.9	74.1	111.1





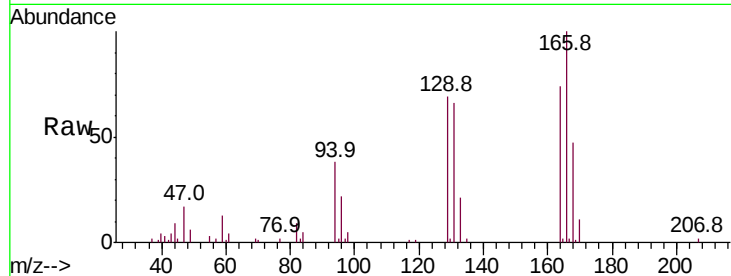
#61
Tetrachloroethene
Concen: 5.553 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
164	100		
166	133.2	100.6	150.8
129	92.4	67.4	101.2
131	87.6	66.6	99.8

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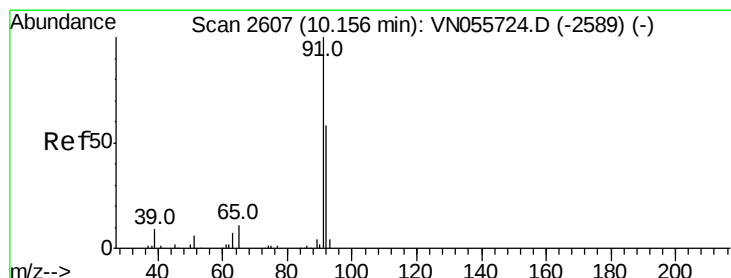
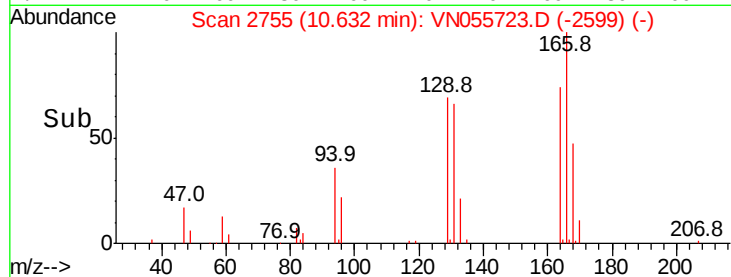
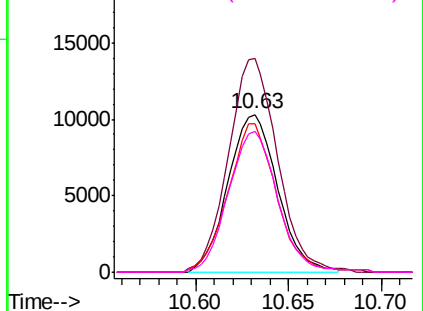
Abundance

Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

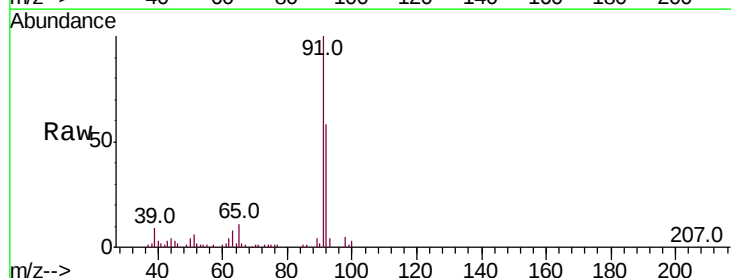
Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62
Toluene
Concen: 5.038 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

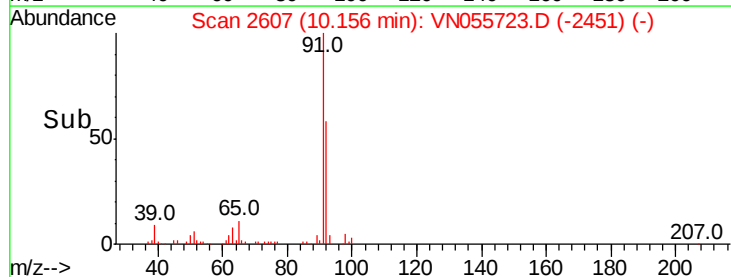
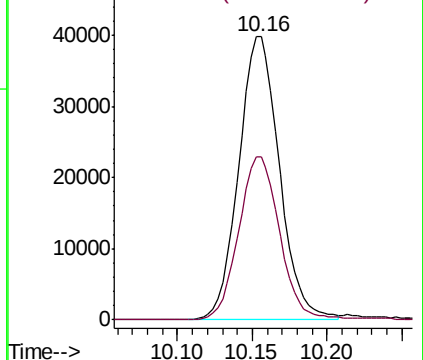
Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.9	45.6	68.4

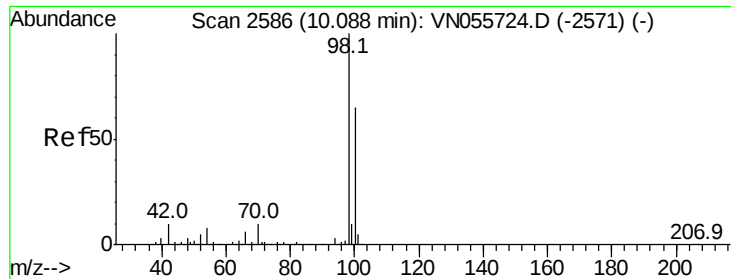


Abundance

Ion 91.00 (90.70 to 91.70): VNO

Ion 92.00 (91.70 to 92.70): VNO





#63

Toluene-d8

Concen: 29.931 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 98 Resp: 376556

Ion Ratio Lower Upper

98 100

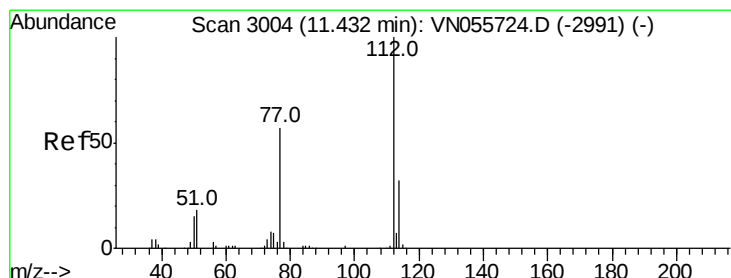
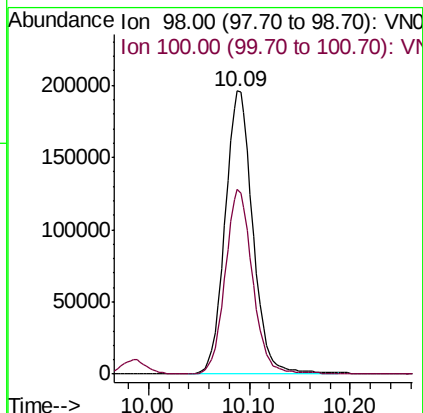
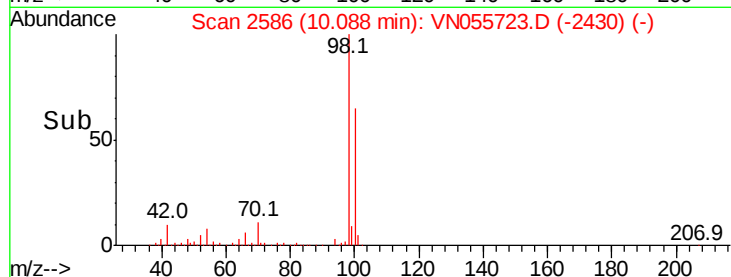
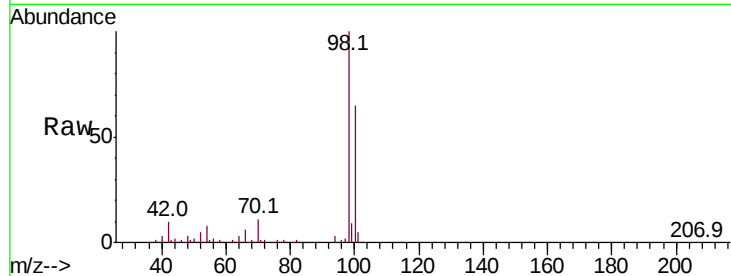
100 64.5 51.6 77.4

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#64

Chlorobenzene

Concen: 5.022 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055723.D

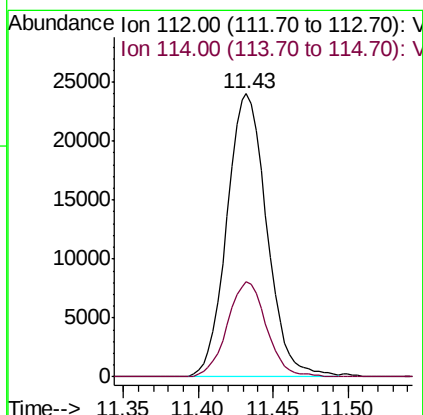
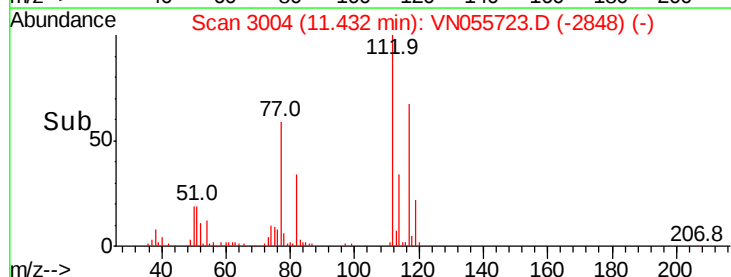
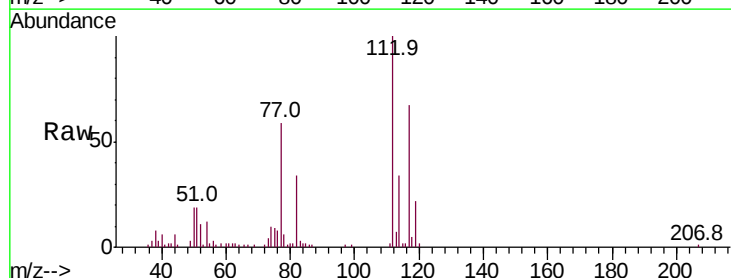
Acq: 22 May 2019 16:57

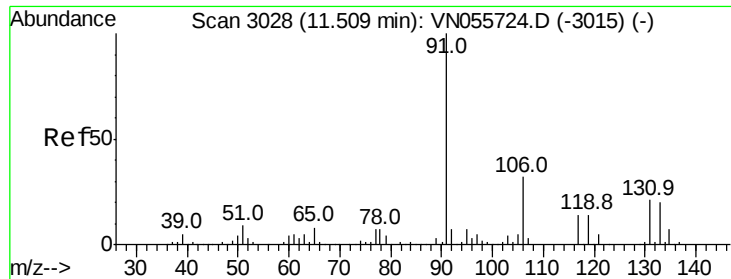
Tgt Ion: 112 Resp: 44746

Ion Ratio Lower Upper

112 100

114 33.6 25.4 38.0





#65

1,1,1,2-Tetrachloroethane

Concen: 5.592 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

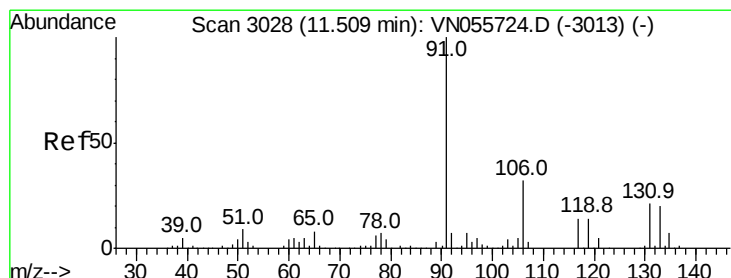
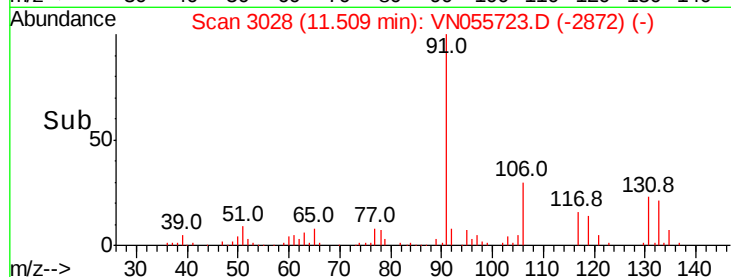
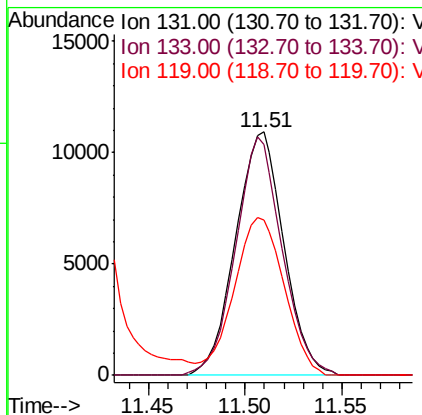
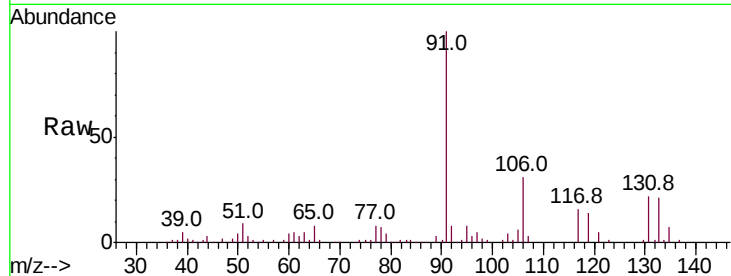
ClientSampled :

VSTDIC005

Tot Ion:	131	Resp:	18945
Ion	Ratio	Lower	Upper
131	100		
133	94.5	0.0	188.8
119	67.7	0.0	133.6

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#66

Ethyl Benzene

Concen: 5.102 ug/l

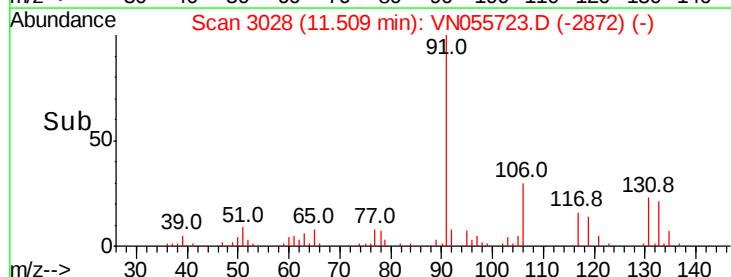
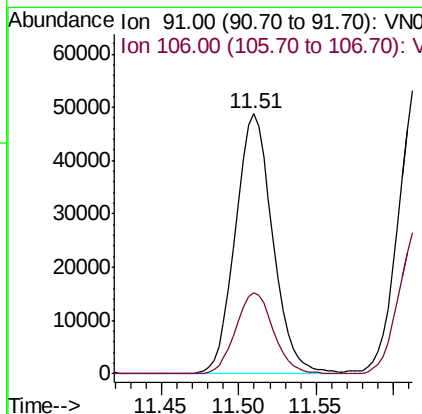
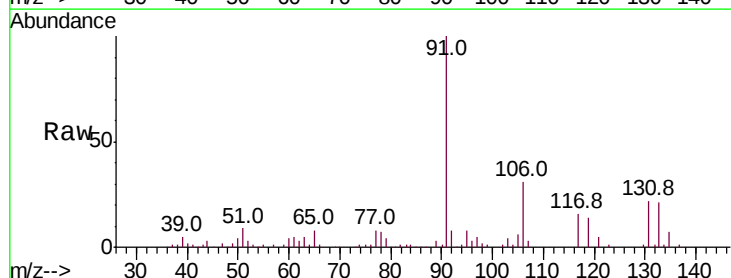
RT: 11.51 min Scan# 3028

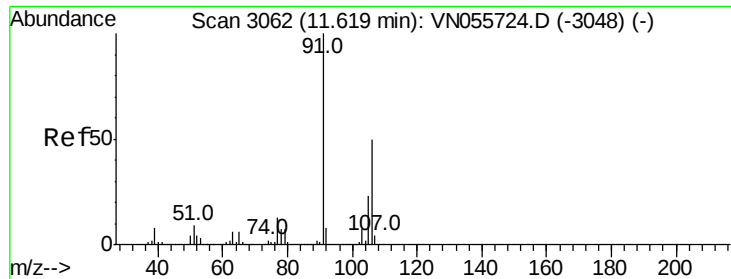
Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Tgt Ion:	91	Resp:	81904
Ion	Ratio	Lower	Upper
91	100		
106	31.0	25.6	38.4





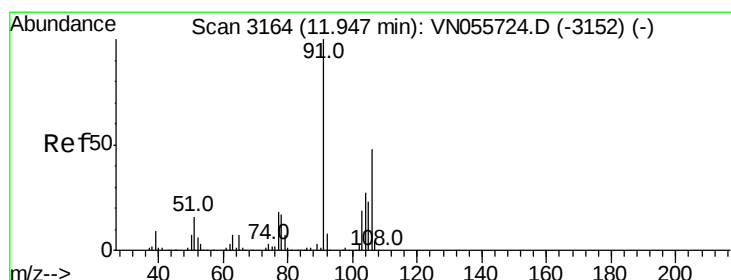
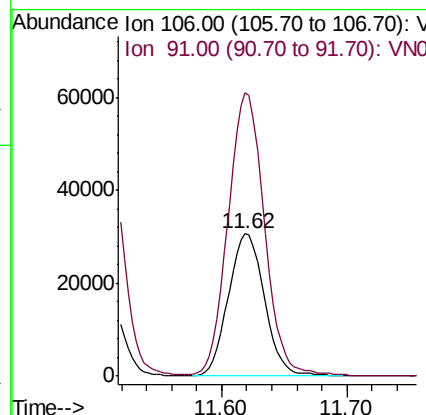
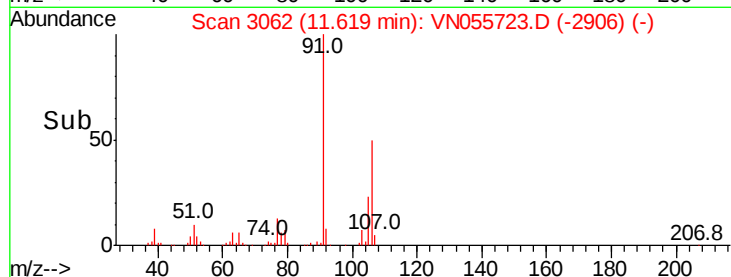
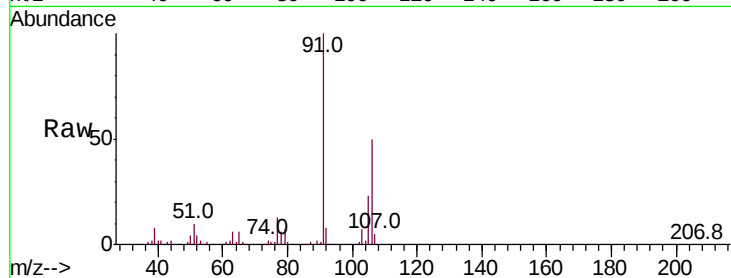
#67
m/p-Xylenes
Concen: 10.442 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
106	100		
91	199.0	159.5	239.3

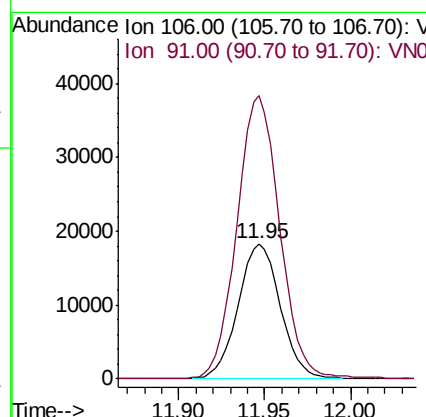
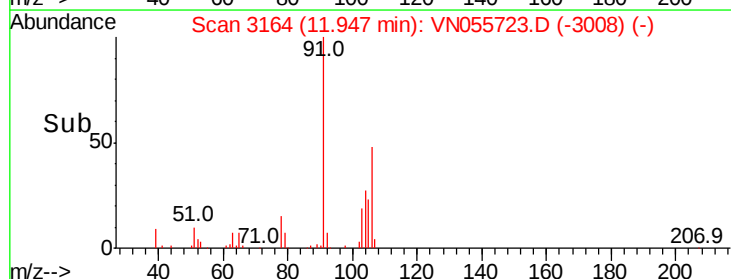
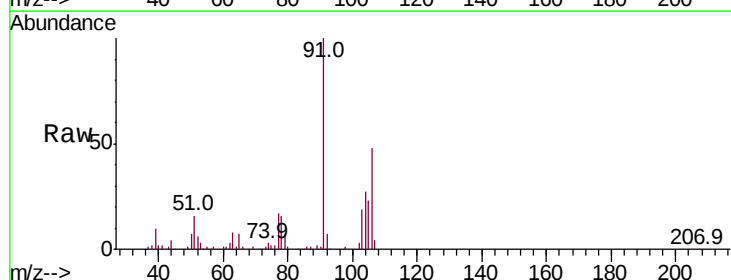
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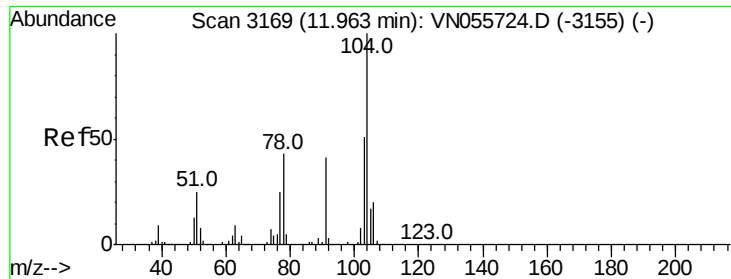
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#68
o-Xylene
Concen: 5.338 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion	Ratio	Lower	Upper
106	100		
91	213.5	105.4	316.1





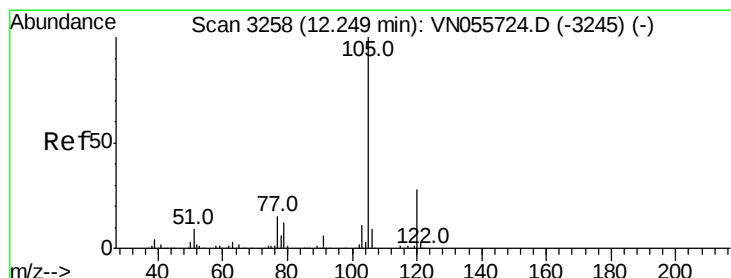
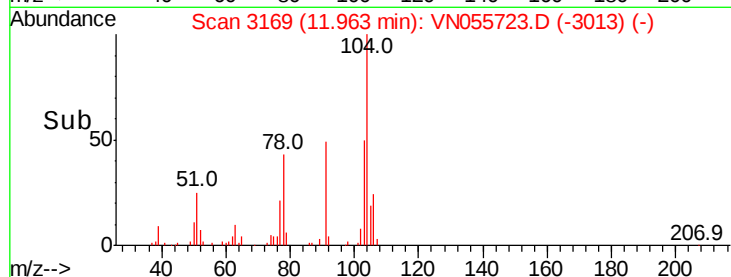
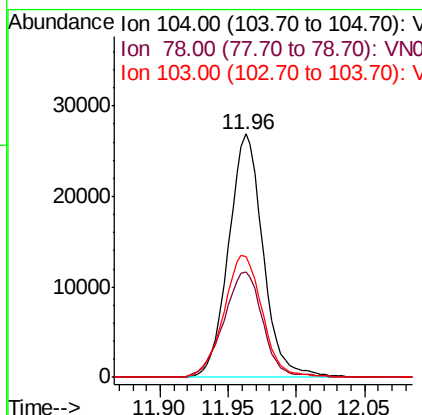
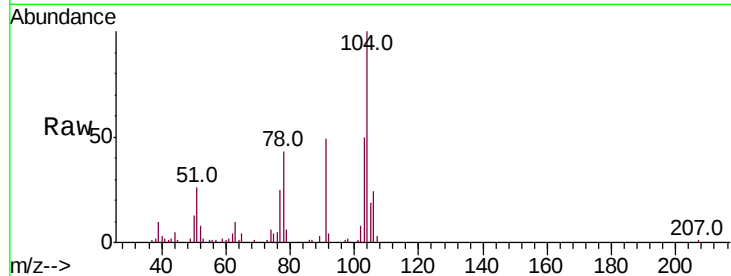
#69
Stvrene
Concen: 5.123 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
104	100		
78	48.4	38.7	58.1
103	55.8	45.0	67.6

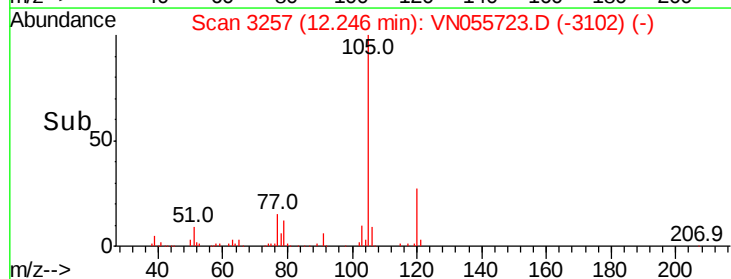
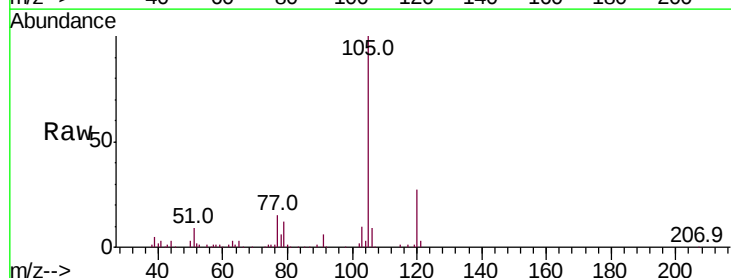
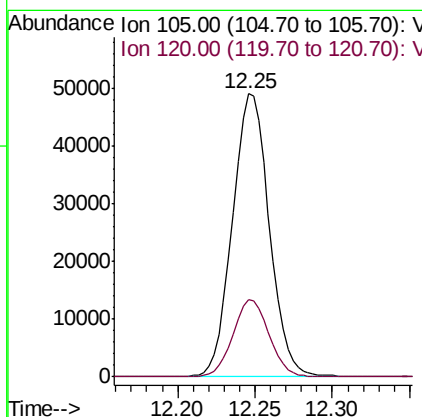
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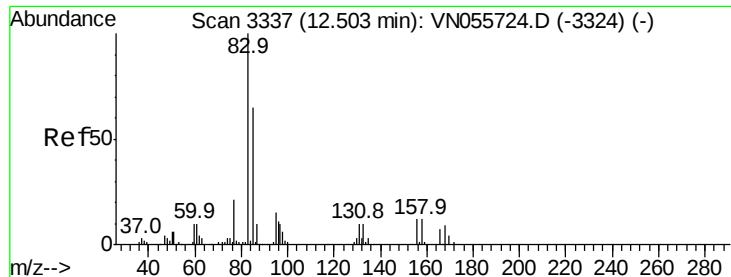
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#70
Isopropylbenzene
Concen: 5.259 ug/l
RT: 12.25 min Scan# 3257
Delta R.T. -0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.7	19.2	35.6





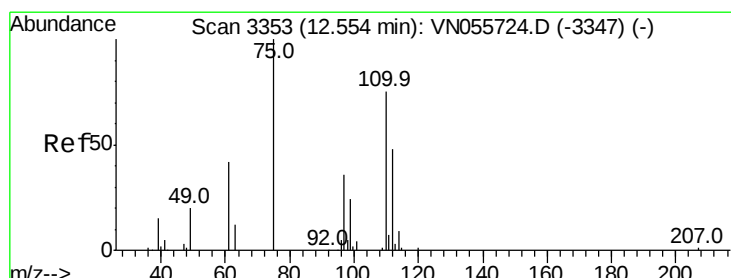
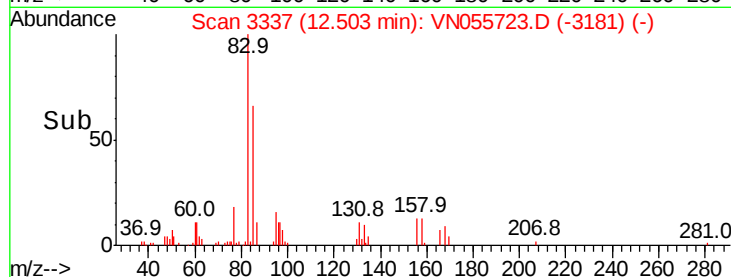
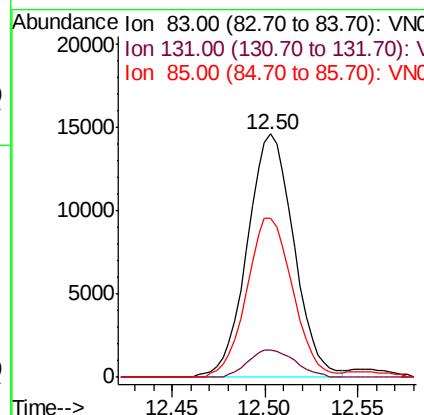
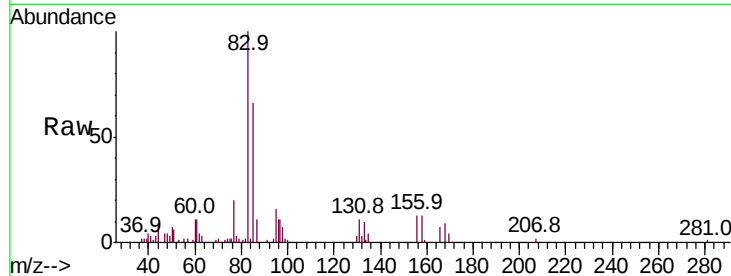
#71
 1,1,2,2-Tetrachloroethane
 Concen: 5.807 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
131	11.4	5.3	15.8
85	64.9	32.3	96.9

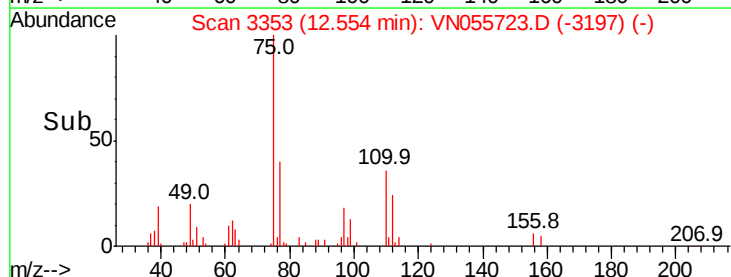
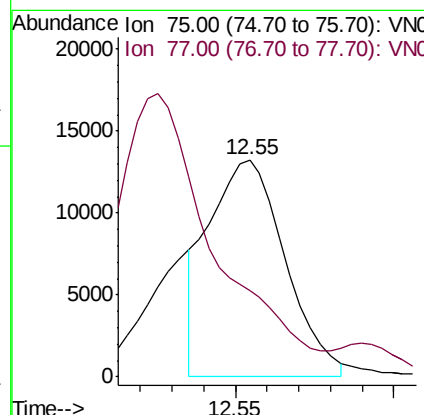
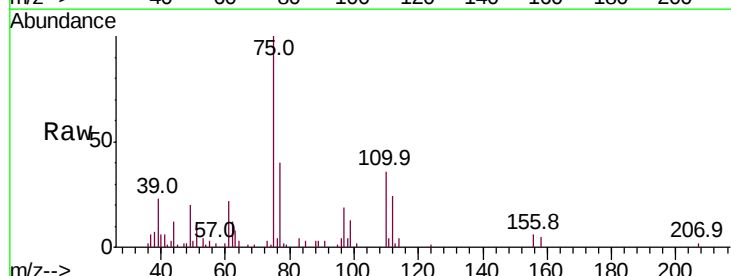
Manual Integrations
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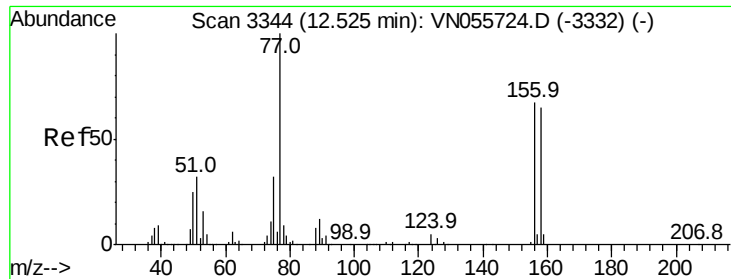
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#72
 1,2,3-Trichloropropane
 Concen: 5.830 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion	Ratio	Lower	Upper
75	100		
77	169.9	0.0	349.8





#73

Bromobenzene

Concen: 5.377 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

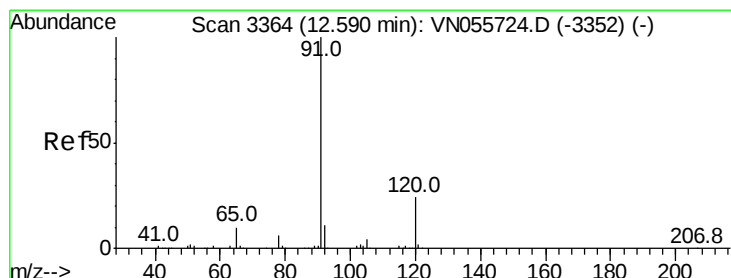
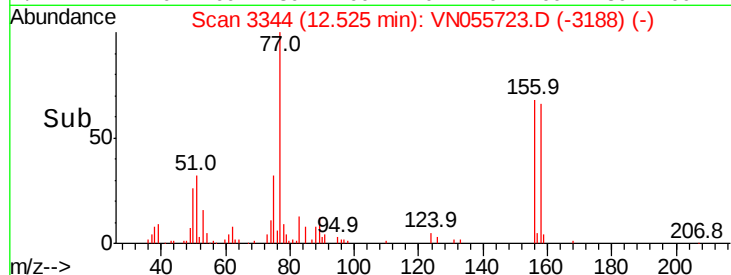
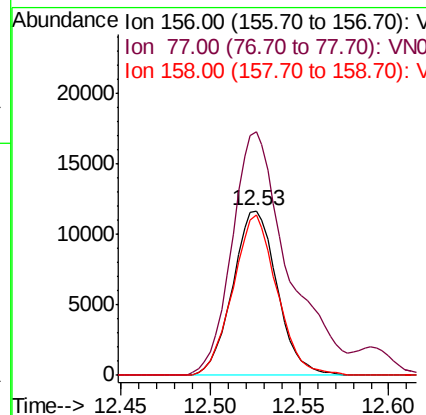
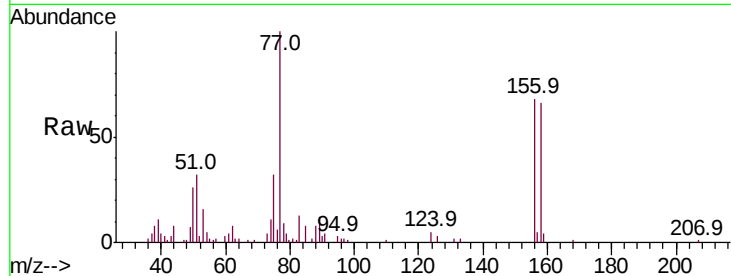
ClientSampleId :

VSTDIC005

Tot Ion:	156	Resp:	20203
Ion Ratio	Lower	Upper	
156	100		
77	187.6	0.0	368.0
158	96.9	0.0	195.0

Manual Integrations
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#74

n-propylbenzene

Concen: 4.718 ug/l

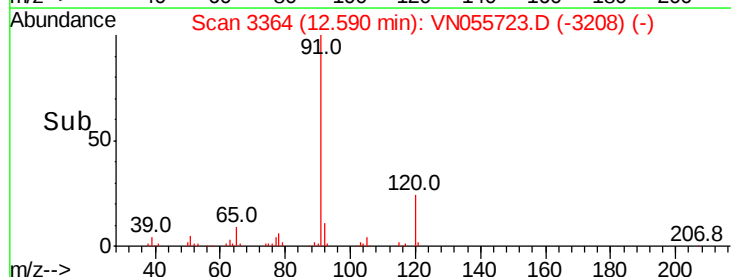
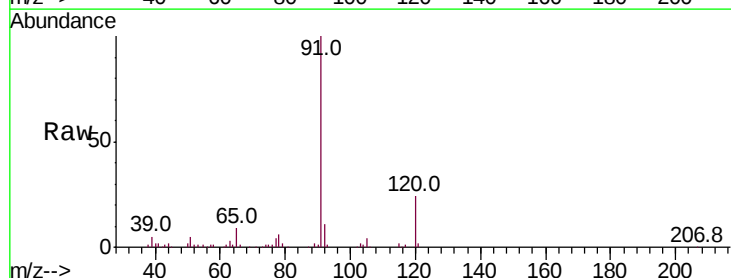
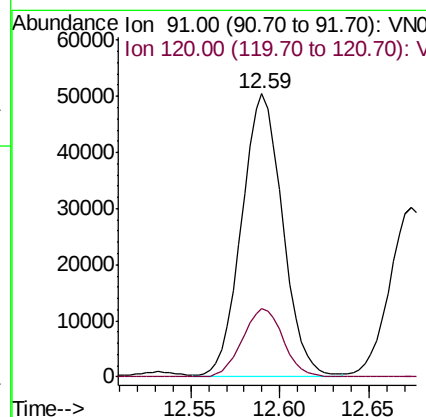
RT: 12.59 min Scan# 3364

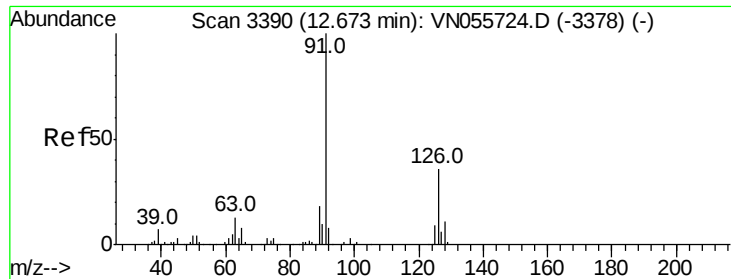
Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Tgt Ion:	91	Resp:	80666
Ion Ratio	Lower	Upper	
91	100		
120	23.9	0.0	47.4





#75

2-Chlorotoluene

Concen: 4.900 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 51422

Ion Ratio Lower Upper

91 100

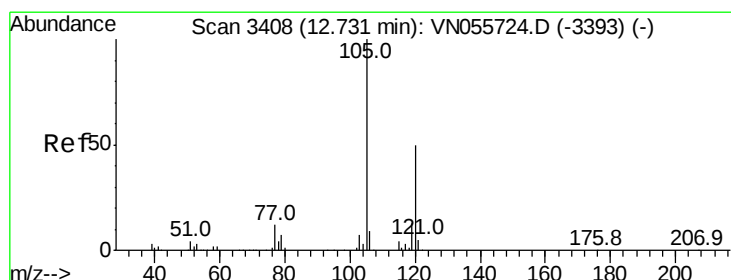
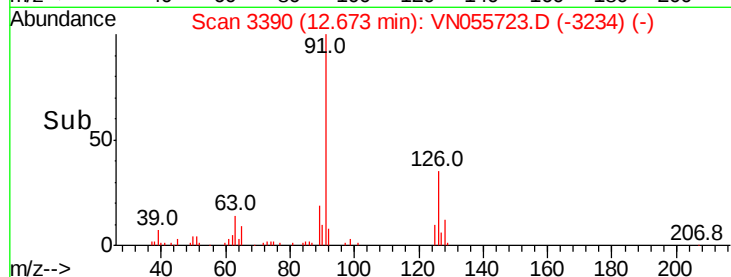
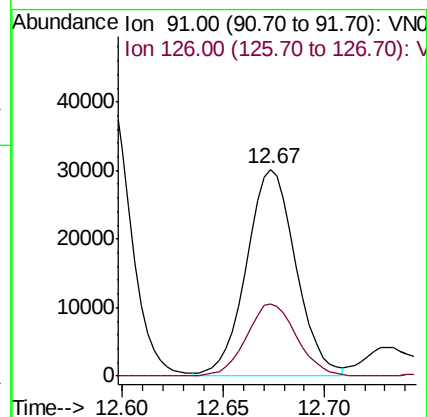
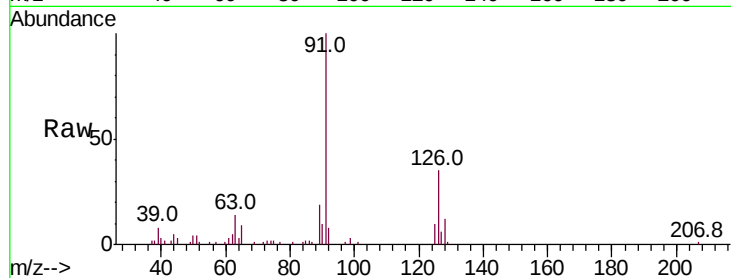
126 35.6 0.0 71.0

Manual Integrations

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#76

1,3,5-Trimethylbenzene

Concen: 5.168 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055723.D

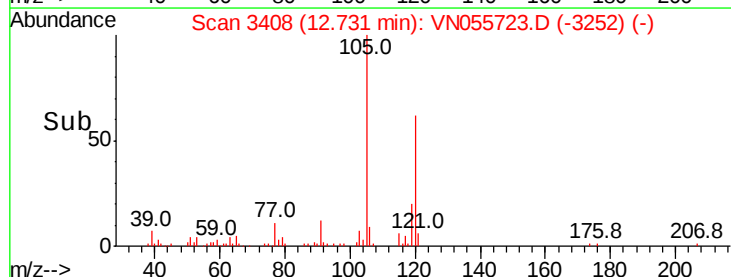
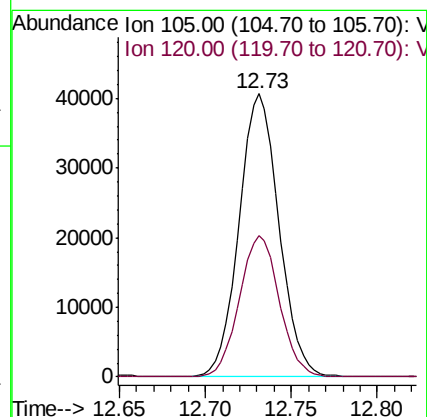
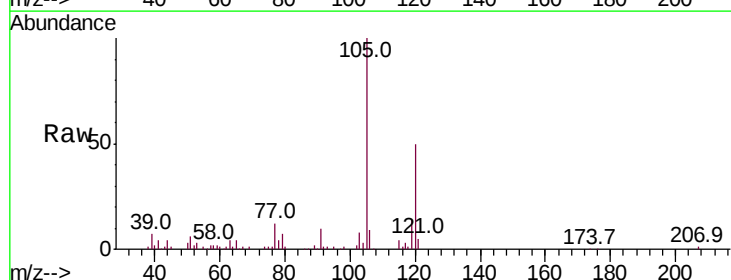
Acq: 22 May 2019 16:57

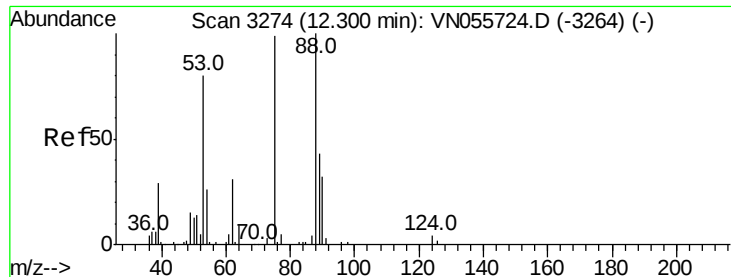
Tgt Ion: 105 Resp: 65718

Ion Ratio Lower Upper

105 100

120 49.8 0.0 99.2





#77

t-1,4-Dichloro-2-butene

Concen: 7.531 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

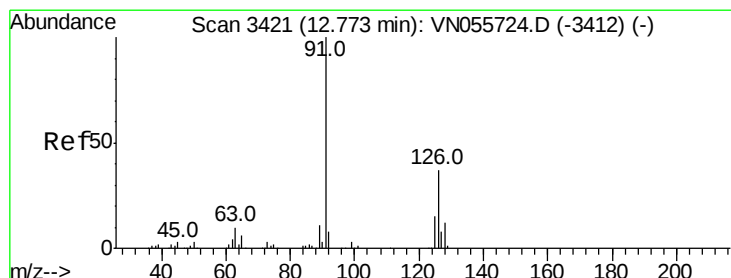
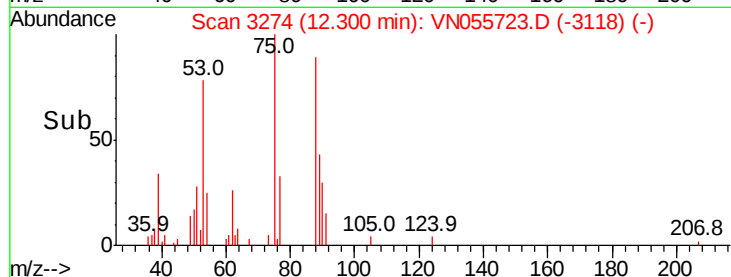
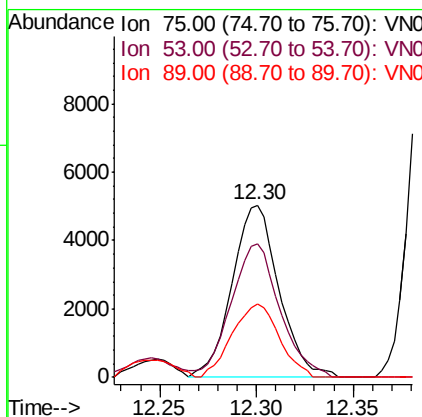
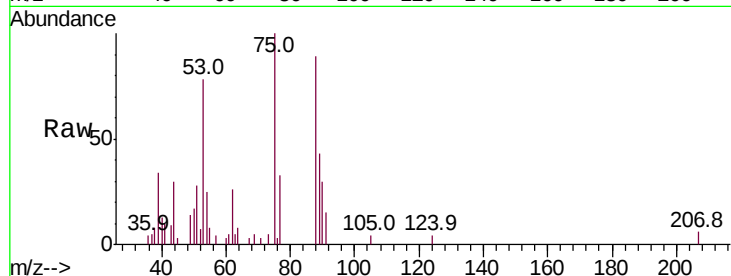
ClientSampleId :

VSTDIC005

Tot Ion:	75	Resp:	8475
Ion	Ratio	Lower	Upper
75	100		
53	77.8	40.1	120.3
89	42.8	22.6	67.8

Manual Integrations
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#78

4-Chlorotoluene

Concen: 4.463 ug/l

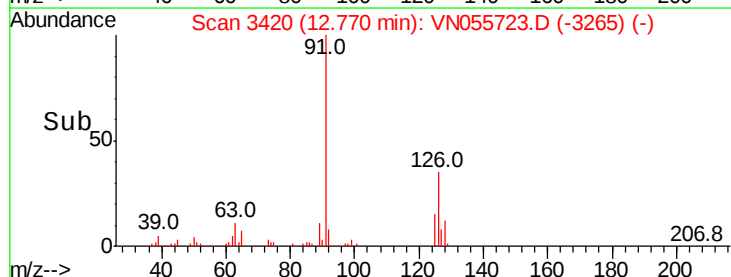
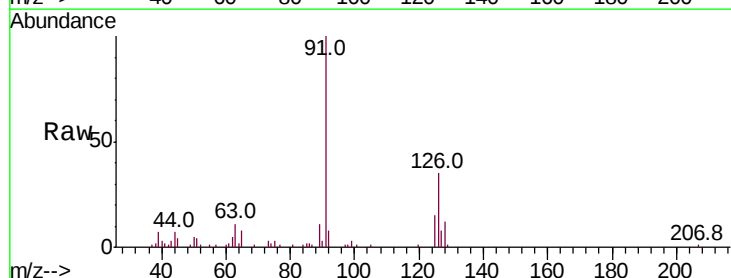
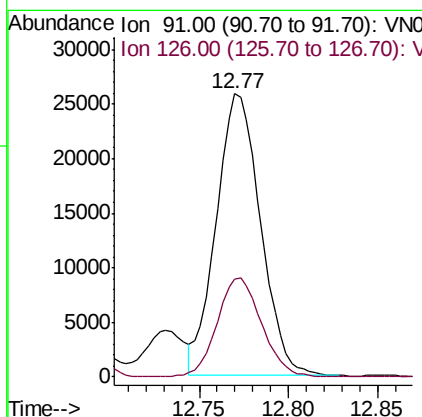
RT: 12.77 min Scan# 3420

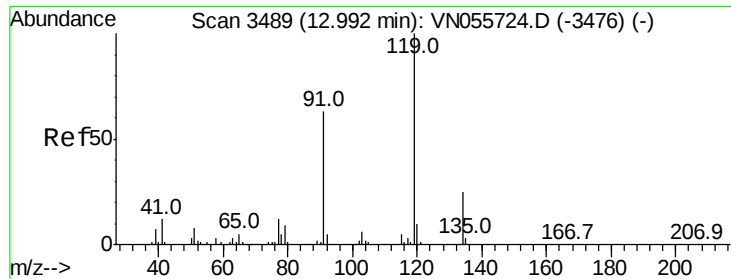
Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Tgt Ion:	91	Resp:	44396
Ion	Ratio	Lower	Upper
91	100		
126	35.3	0.0	69.0





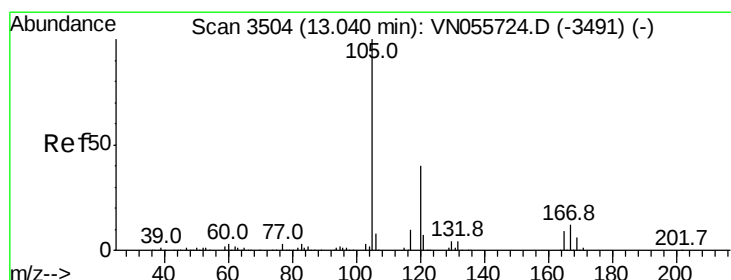
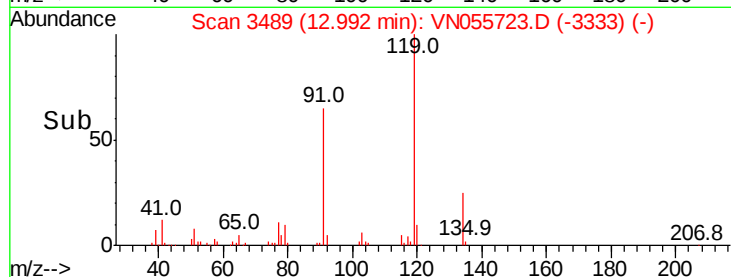
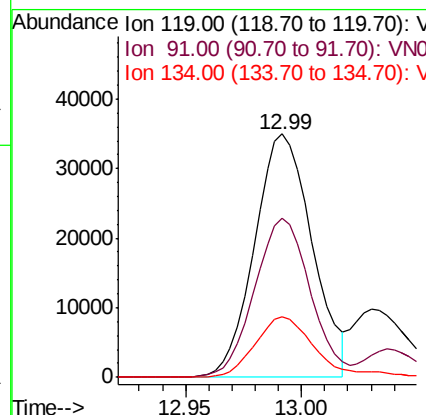
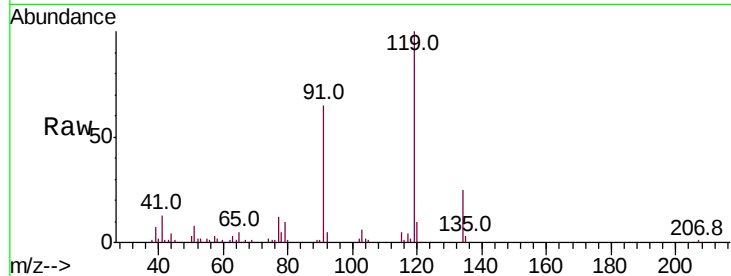
#79
tert-butylbenzene
Concen: 5.509 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.2	0.0	123.8
134	26.1	0.0	52.6

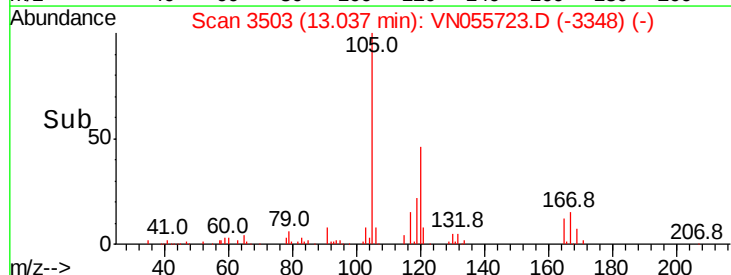
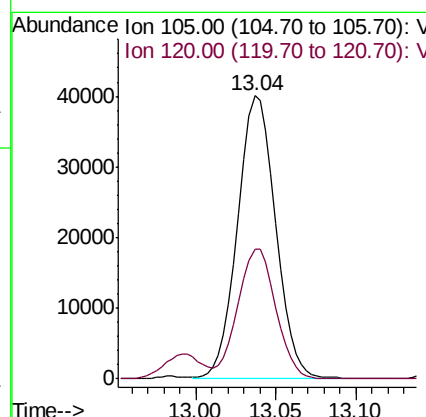
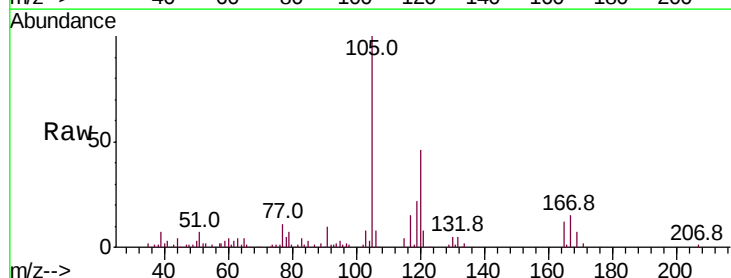
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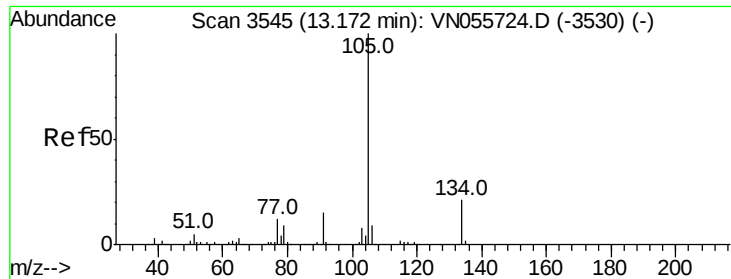
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#80
1,2,4-Trimethylbenzene
Concen: 5.298 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.7	0.0	93.6





#81

sec-Butylbenzene

Concen: 5.065 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 72937

Ion Ratio Lower Upper

105 100

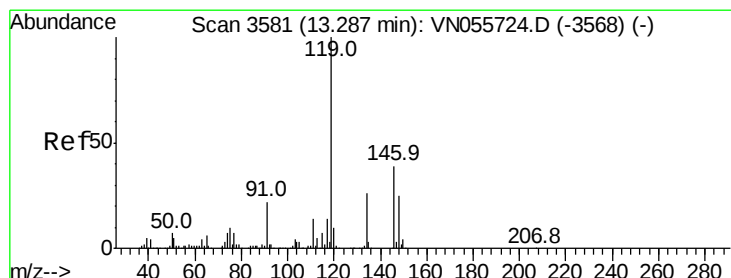
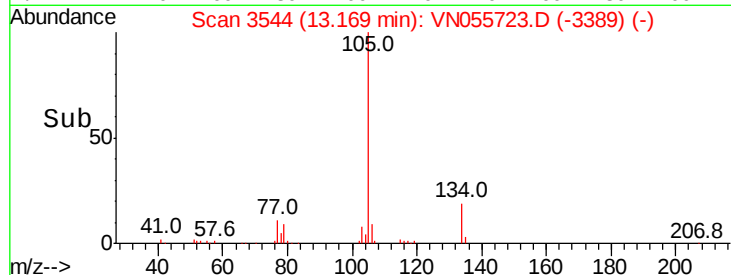
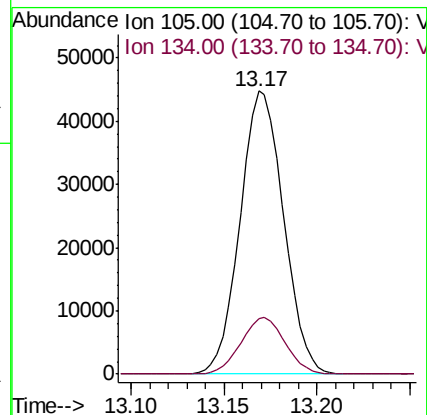
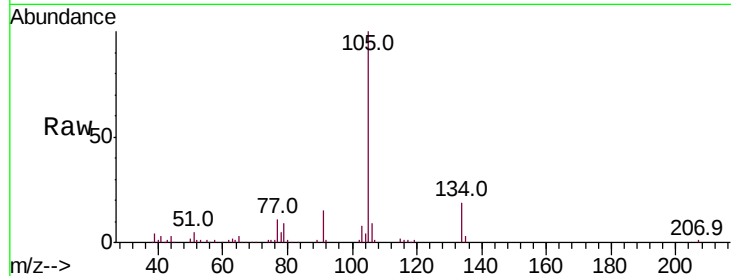
134 20.3 0.0 41.4

Manual Integrations

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#82

p-Isopropyltoluene

Concen: 5.349 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

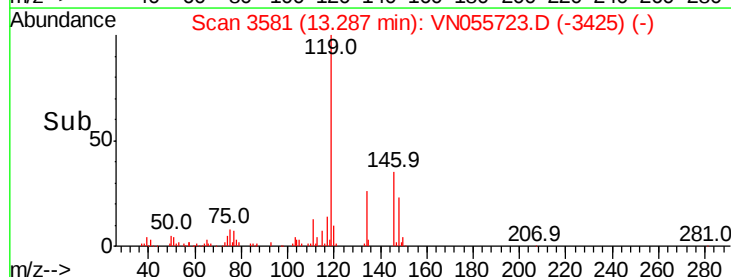
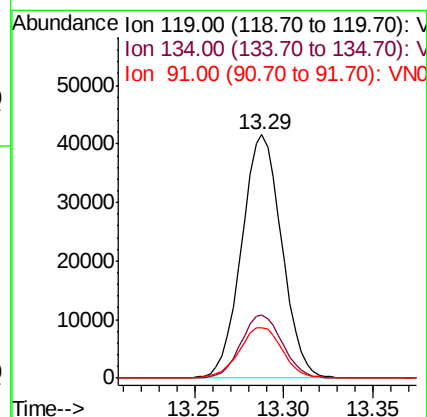
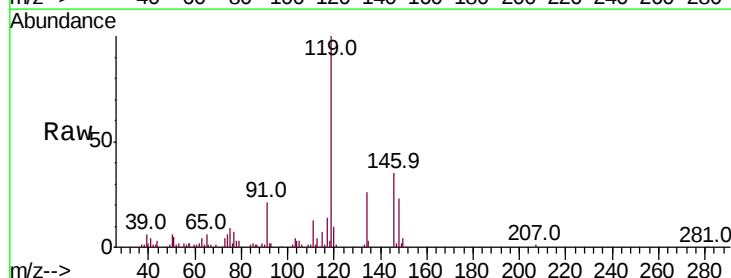
Tgt Ion:119 Resp: 65406

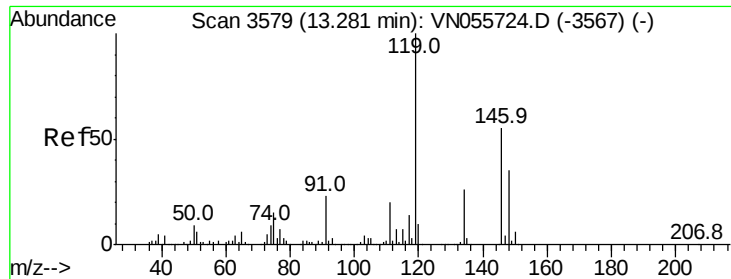
Ion Ratio Lower Upper

119 100

134 26.7 0.0 52.0

91 22.3 0.0 44.4





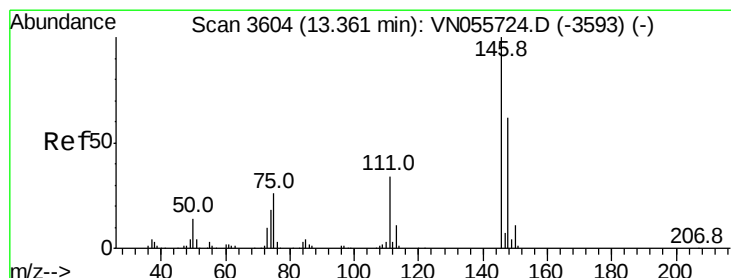
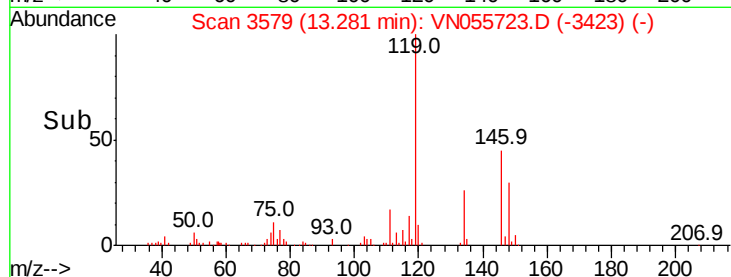
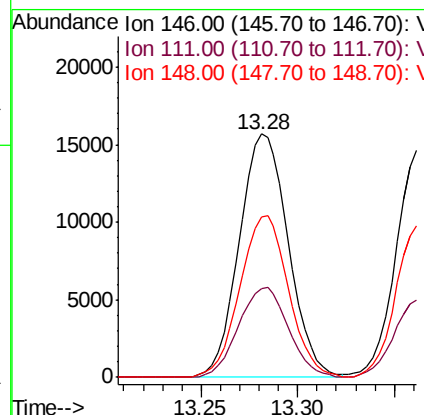
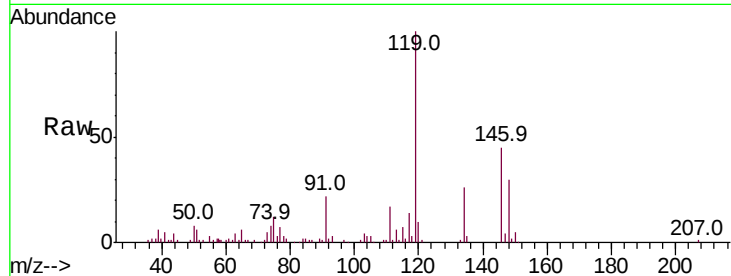
#83
 1,3-Dichlorobenzene
 Concen: 4.553 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	18.6	55.6
148	65.8	32.2	96.6

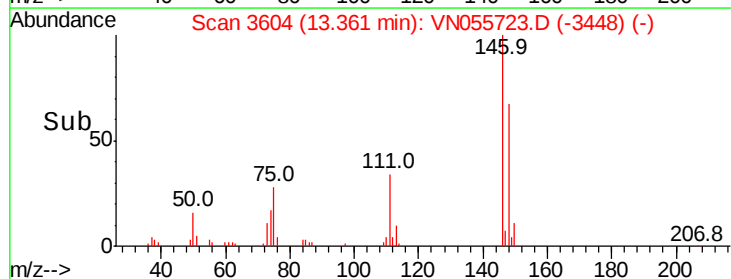
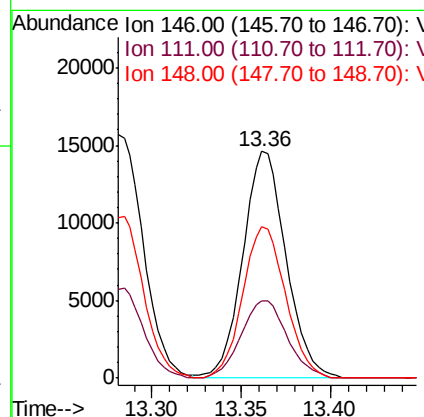
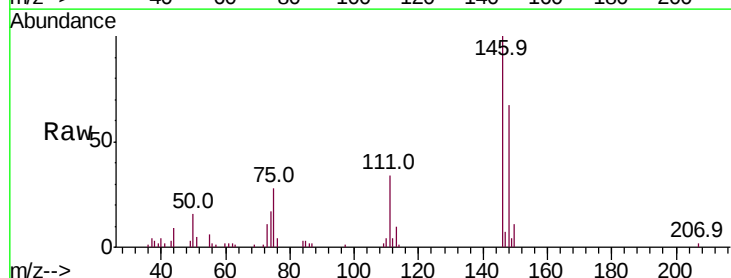
Manual Integrations
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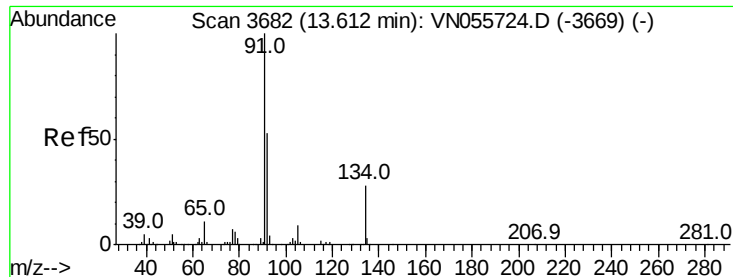
MMDadoda
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#84
 1,4-Dichlorobenzene
 Concen: 4.332 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.4	17.5	52.6
148	66.1	31.8	95.4





#85

n-Butylbenzene

Concen: 4.774 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

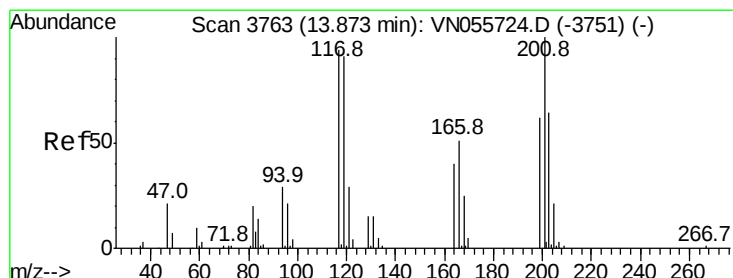
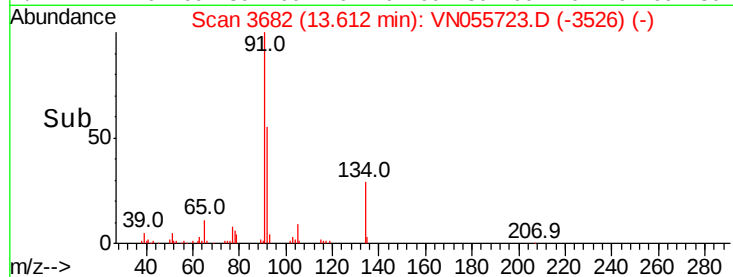
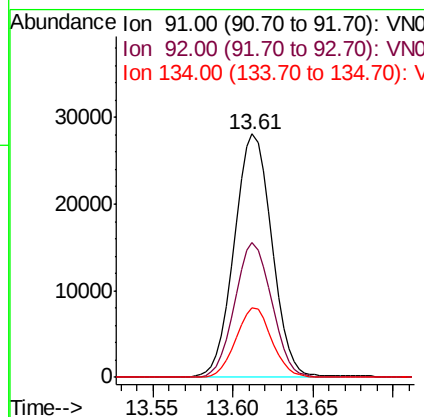
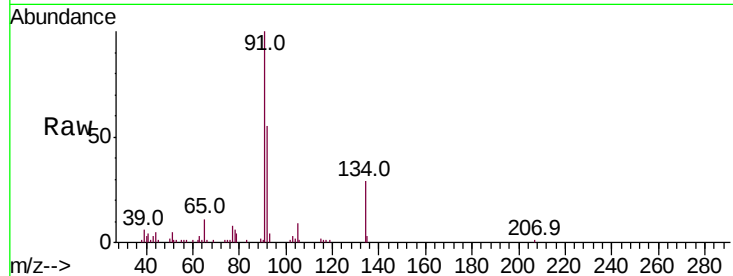
ClientSampleId :

VSTDIC005

Tot Ion:	91	Resp:	44935
Ion Ratio	Lower	Upper	
91	100		
92	54.2	0.0	106.8
134	26.9	0.0	55.2

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#86

Hexachloroethane

Concen: 6.216 ug/l

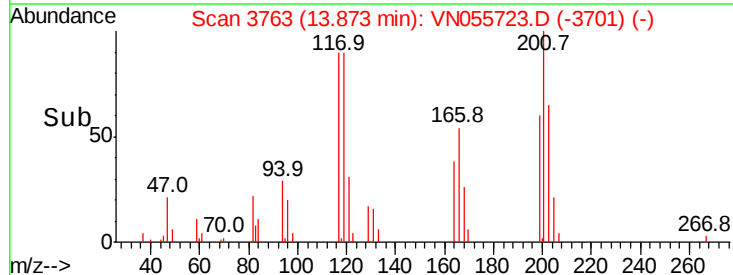
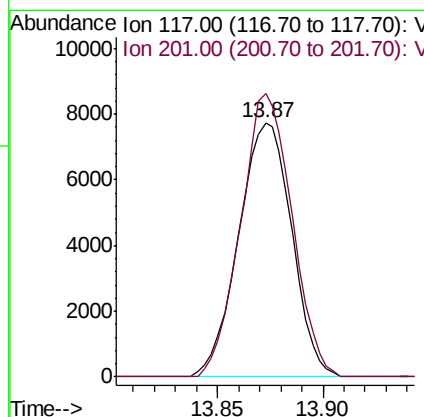
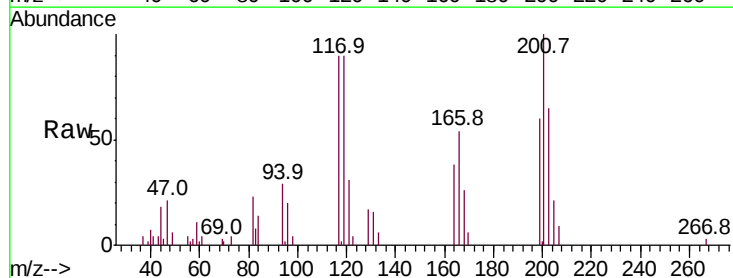
RT: 13.87 min Scan# 3763

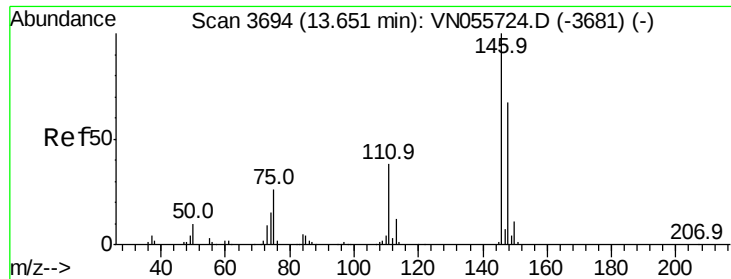
Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Tgt Ion:	117	Resp:	13524
Ion Ratio	Lower	Upper	
117	100		
201	107.6	52.5	157.6





#87

1,2-Dichlorobenzene

Concen: 4.902 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

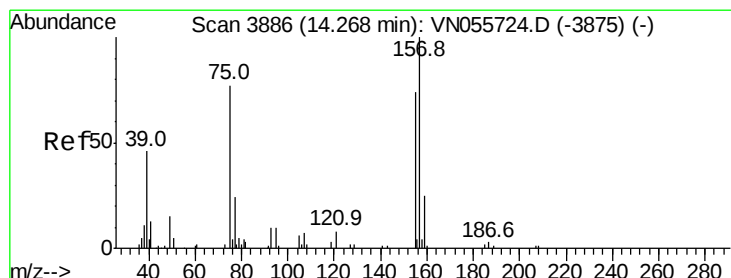
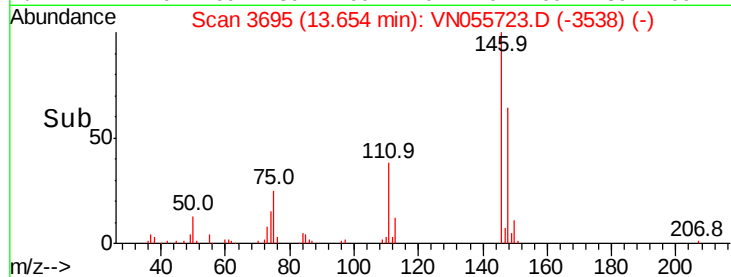
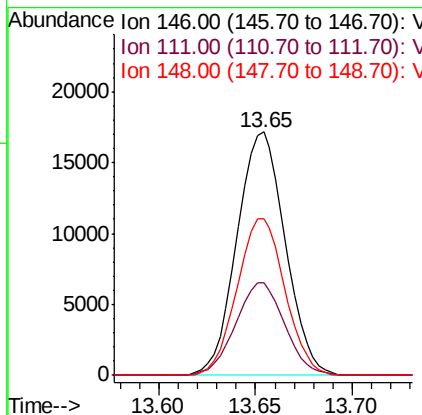
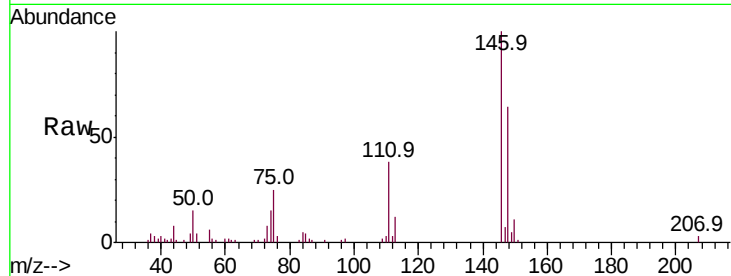
ClientSampleId :

VSTDIC005

Tot Ion:	146	Resp:	29782
Ion Ratio	Lower	Upper	
146	100		
111	38.8	19.2	57.6
148	63.9	32.7	98.1

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#88

1,2-Dibromo-3-Chloropropane

Concen: 6.619 ug/l

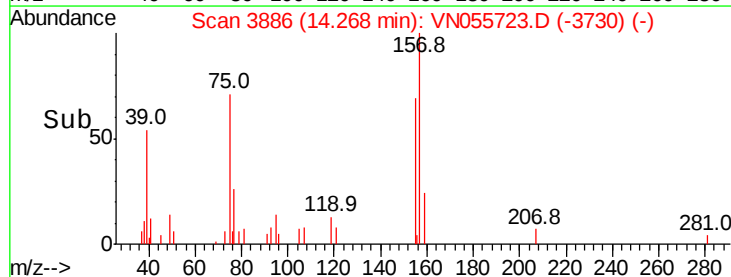
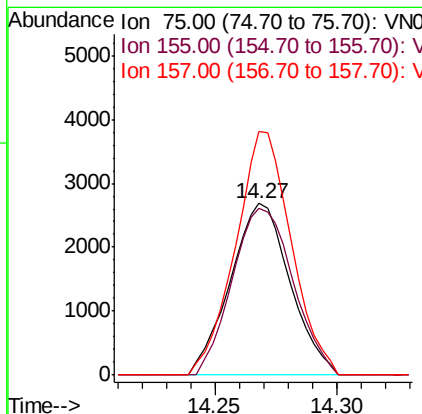
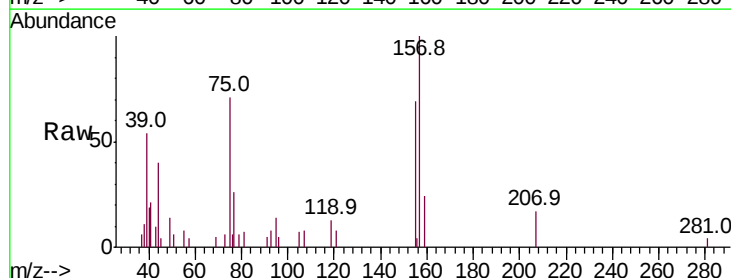
RT: 14.27 min Scan# 3886

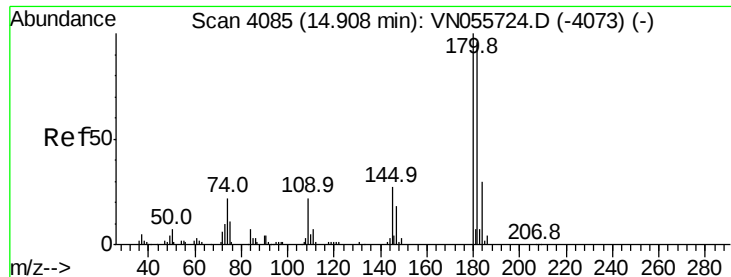
Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Tgt Ion:	75	Resp:	4562
Ion Ratio	Lower	Upper	
75	100		
155	98.9	78.4	117.6
157	132.2	105.0	157.4





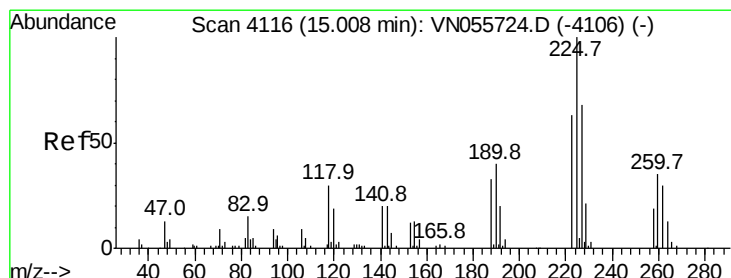
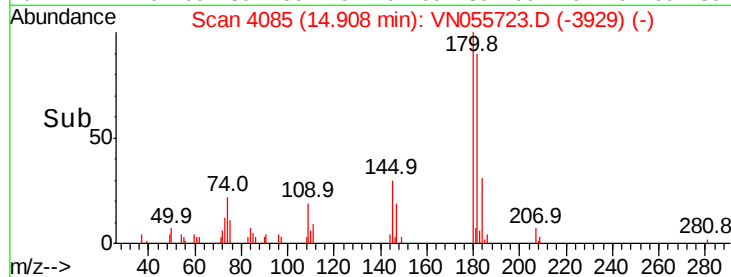
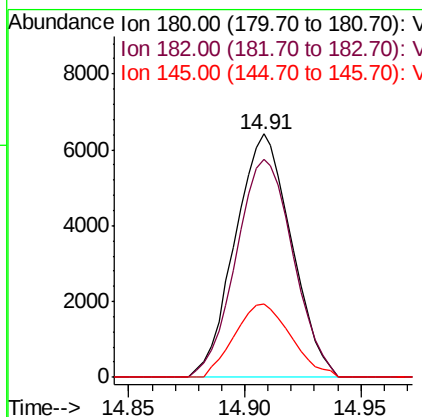
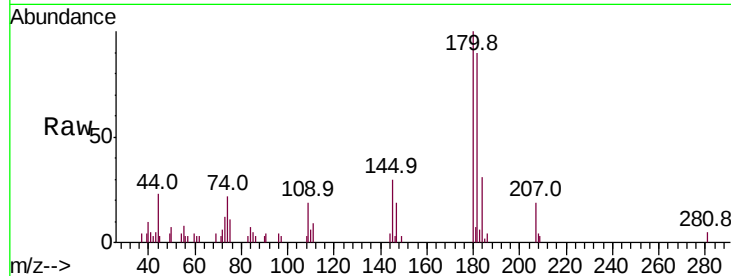
#89
 1,2,4-Trichlorobenzene
 Concen: 4.198 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.8	76.1	114.1
145	30.2	21.8	32.8

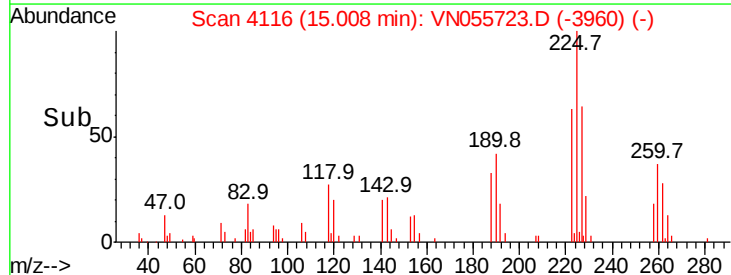
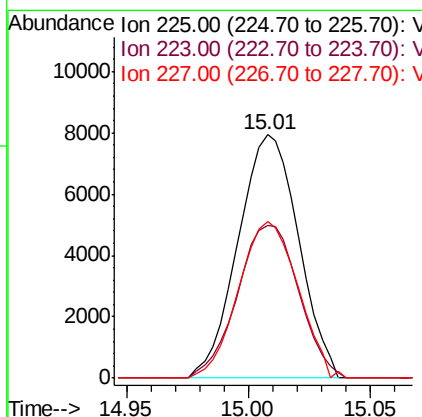
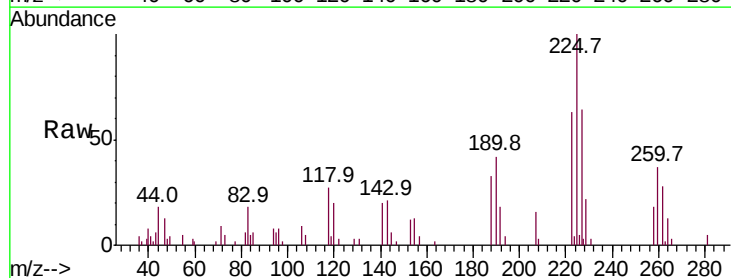
Manual Integrations
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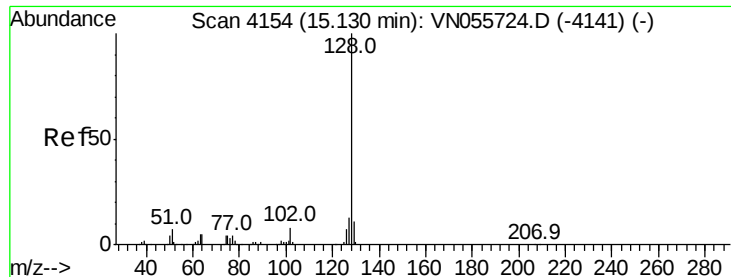
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#90
 Hexachlorobutadiene
 Concen: 6.405 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.9	0.0	126.0
227	62.9	0.0	133.0





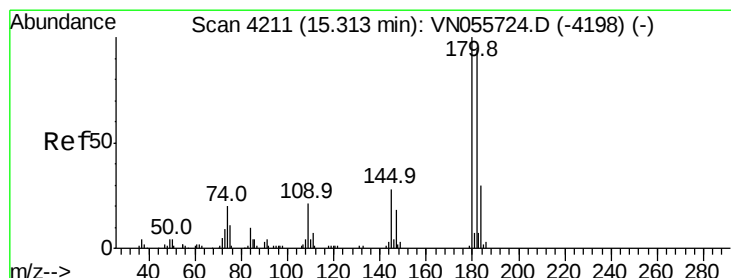
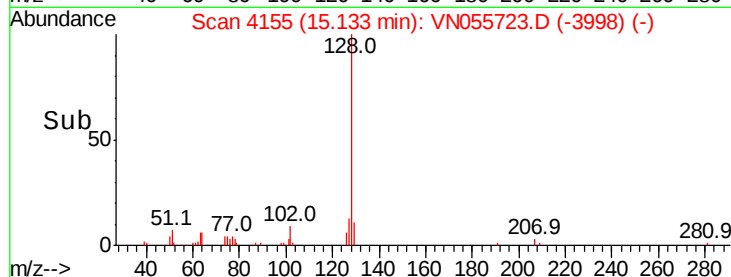
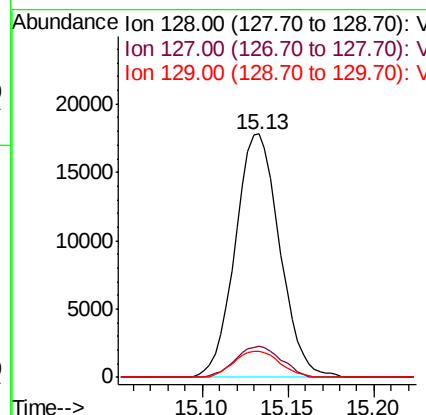
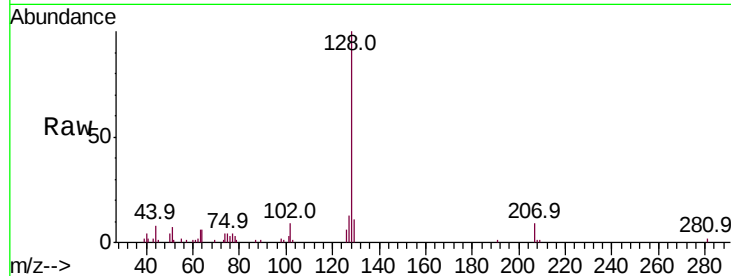
#91
Naphthalene
Concen: 5.092 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.0	15.0
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
5/23/2019 12:30:49 PM



#92
1,2,3-Trichlorobenzene
Concen: 4.709 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.3	0.0	188.6
145	31.0	0.0	56.8

