

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122018\
 Data File : VN053090.D
 Acq On : 21 Dec 2018 7:02
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 12/21/2018 11:32:03 AM

Quant Time: Dec 21 07:42:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1100888	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1718081	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1508205	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	648124	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	610020	54.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.20%	
35) Dibromofluoromethane	7.59	113	505031	64.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.70%	
50) Toluene-d8	10.09	98	2225517	52.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.64%	
62) 4-Bromofluorobenzene	12.40	95	740963	50.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.20%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	509467	45.726	ug/l	99
3) Chloromethane	2.06	50	612258	45.347	ug/l	100
4) Vinyl Chloride	2.19	62	644254	47.115	ug/l	100
5) Bromomethane	2.57	94	390881	41.259	ug/l	99
6) Chloroethane	2.71	64	386914	47.777	ug/l	99
7) Trichlorofluoromethane	3.03	101	839806	49.301	ug/l	99
8) Diethyl Ether	3.41	74	337162	52.466	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	523911	48.238	ug/l	98
10) Methyl Iodide	3.96	142	689576	45.211	ug/l	99
11) Tert butyl alcohol	4.78	59	183626	269.378	ug/l	99
12) 1,1-Dichloroethene	3.74	96	521135	49.665	ug/l	97
13) Acrolein	3.61	56	169706	274.563	ug/l	99
14) Allyl chloride	4.33	41	788871	48.536	ug/l	97
15) Acrylonitrile	4.99	53	989041	261.167	ug/l	99
16) Acetone	3.82	43	630433	287.808	ug/l	95
17) Carbon Disulfide	4.06	76	1489811	43.536	ug/l	100
18) Methyl Acetate	4.33	43	520320	52.290	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	1492648	53.157	ug/l	99
20) Methylene Chloride	4.56	84	593689	49.686	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	558353	49.527	ug/l	98
22) Diisopropyl ether	5.95	45	1849103	53.300	ug/l	98
23) Vinyl Acetate	5.90	43	5450067	273.196	ug/l	98
24) 1,1-Dichloroethane	5.85	63	1060336	51.434	ug/l	99
25) 2-Butanone	6.84	43	1034664	281.454	ug/l	97
26) 2,2-Dichloropropane	6.83	77	588534	37.398	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	648660	50.823	ug/l	97
28) Bromochloromethane	7.20	49	472536	52.898	ug/l	95
29) Tetrahydrofuran	7.21	42	733031	266.985	ug/l	98
30) Chloroform	7.37	83	1027962	50.760	ug/l	100
31) Cyclohexane	7.66	56	958894	49.586	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	875795	50.766	ug/l	99
36) 1,1-Dichloropropene	7.80	75	805944	48.873	ug/l	100
37) Ethyl Acetate	6.93	43	487362	52.940	ug/l	99
38) Carbon Tetrachloride	7.78	117	750892	49.678	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	921917	46.021	ug/l	97
40) Benzene	8.04	78	2446868	49.884	ug/l	100
41) Methacrylonitrile	7.17	41	281521	52.927	ug/l	97
42) 1,2-Dichloroethane	8.13	62	727350	50.195	ug/l	99
43) Isopropyl Acetate	8.16	43	927775	52.123	ug/l	99
44) Trichloroethene	8.84	130	667744	47.066	ug/l	98
45) 1,2-Dichloropropane	9.12	63	648960	50.794	ug/l	98
46) Dibromomethane	9.21	93	372033	49.986	ug/l	98
47) Bromodichloromethane	9.40	83	793829	50.176	ug/l	100
48) Methyl methacrylate	9.20	41	465273	52.084	ug/l	98
49) 1,4-Dioxane	9.20	88	106590	943.276	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	2387181	267.767	ug/l	99
52) Toluene	10.16	92	1501921	49.400	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	792052	47.610	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	918341	48.091	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	542901	51.185	ug/l	99
56) Ethyl methacrylate	10.43	69	744801	53.052	ug/l	97
57) 1,3-Dichloropropane	10.71	76	924830	50.847	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	2034829	264.011	ug/l	99
59) 2-Hexanone	10.75	43	1589898	263.584	ug/l	98
60) Dibromochloromethane	10.90	129	603121	49.675	ug/l	100
61) 1,2-Dibromoethane	11.01	107	547457	50.821	ug/l	100
64) Tetrachloroethene	10.63	164	713091	43.648	ug/l	99
65) Chlorobenzene	11.43	112	1649357	49.334	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	594648	51.148	ug/l	100
67) Ethyl Benzene	11.51	91	2854255	49.643	ug/l	100
68) m/p-Xylenes	11.62	106	2120065	96.996	ug/l	99
69) o-Xylene	11.95	106	1035191	49.356	ug/l	100
70) Styrene	11.96	104	1706916	49.910	ug/l	99
71) Bromoform	12.13	173	407671	48.539	ug/l	99
73) Isopropylbenzene	12.25	105	2743478	54.101	ug/l	99
74) N-amyl acetate	12.07	43	804632	57.151	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	598280	60.138	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	523085m	47.943	ug/l	
77) Bromobenzene	12.53	156	731609	55.502	ug/l	93
78) n-propylbenzene	12.59	91	3031318	52.487	ug/l	100
79) 2-Chlorotoluene	12.68	91	1783116	49.809	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	2099709	50.800	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	162886	48.119	ug/l	97
82) 4-Chlorotoluene	12.77	91	1798048	51.309	ug/l	99
83) tert-Butylbenzene	12.99	119	1872852	51.233	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2096400	50.453	ug/l	100
85) sec-Butylbenzene	13.17	105	2431805	49.182	ug/l	100
86) p-Isopropyltoluene	13.29	119	2087702	48.864	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1145823	49.113	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1124246	47.585	ug/l	100
89) n-Butylbenzene	13.62	91	1662508	45.231	ug/l	100
90) Hexachloroethane	13.88	117	346165	52.798	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	1066768	48.584	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	82854	48.166	ug/l	96

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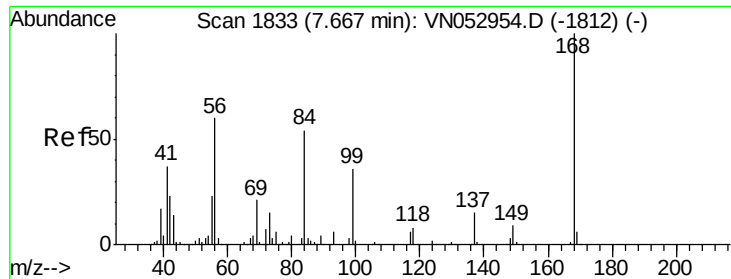
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	550275	47.335	ug/l	100
94) Hexachlorobutadiene	15.01	225	303174	50.354	ug/l	99
95) Naphthalene	15.13	128	1254880	49.262	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	499258	47.683	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 1100888

Ion Ratio Lower Upper

168 100

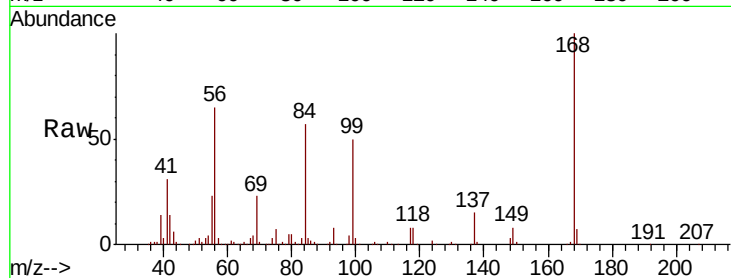
99 49.5 40.2 60.2

Manual Integrations

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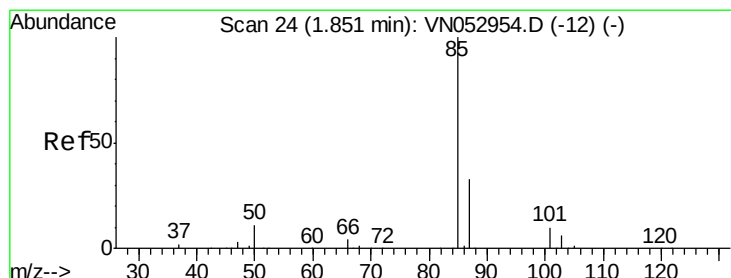
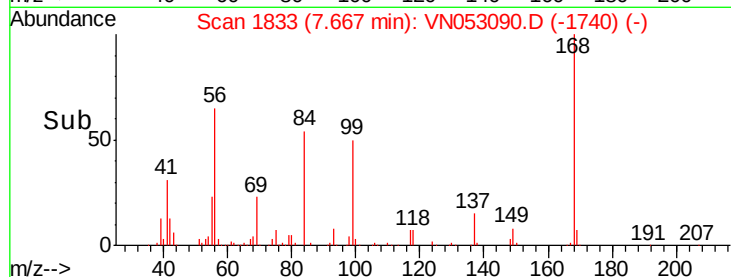
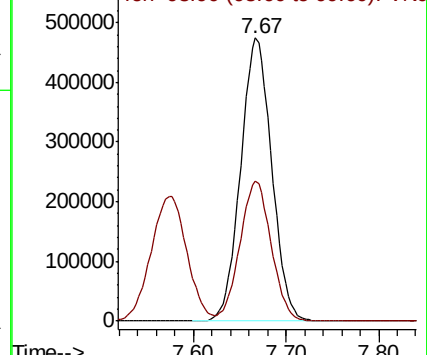
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 45.726 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN053090.D

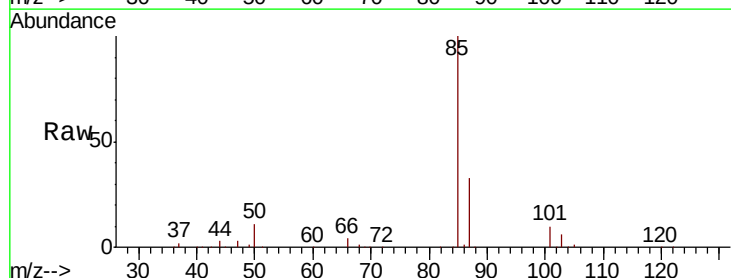
Acq: 21 Dec 2018 7:02

Tgt Ion: 85 Resp: 509467

Ion Ratio Lower Upper

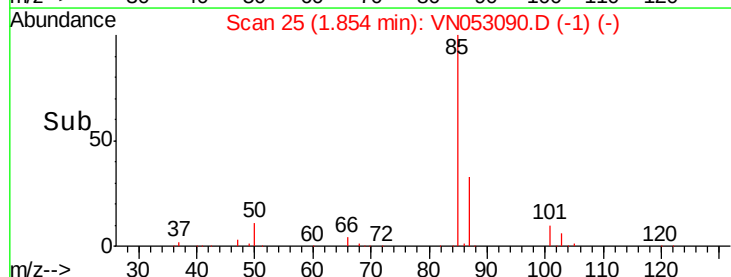
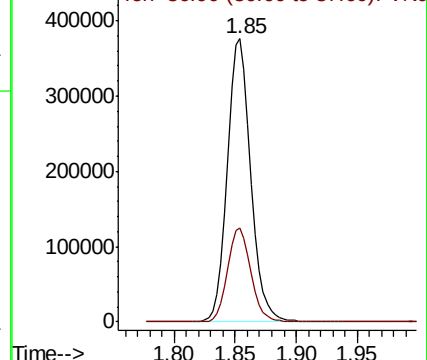
85 100

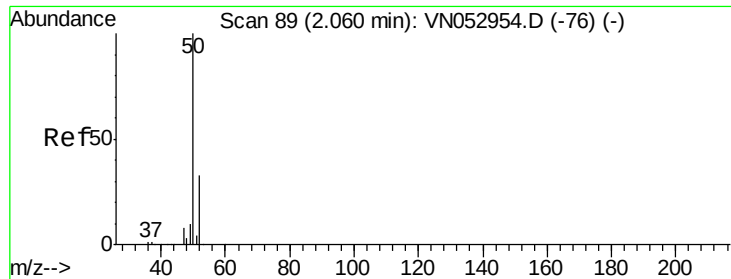
87 33.1 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 45.347 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 612258

Ion Ratio Lower Upper

50 100

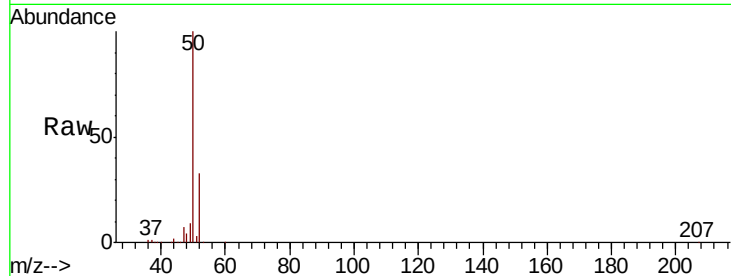
52 32.8 26.2 39.4

Manual Integrations

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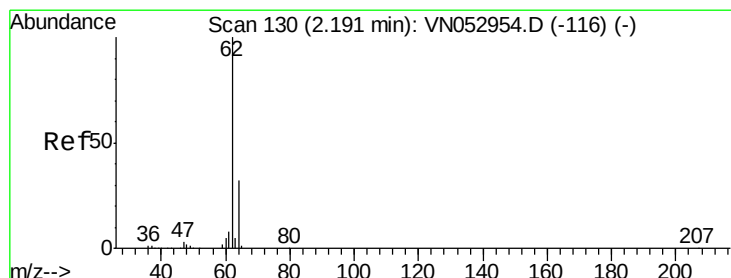
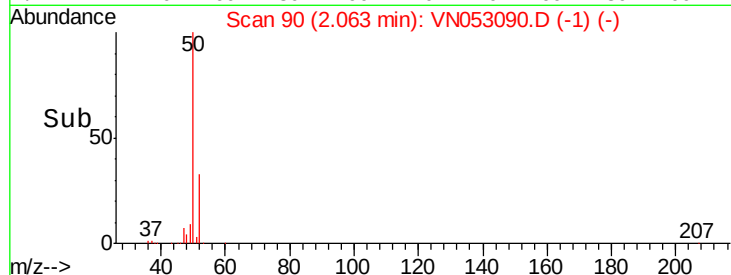
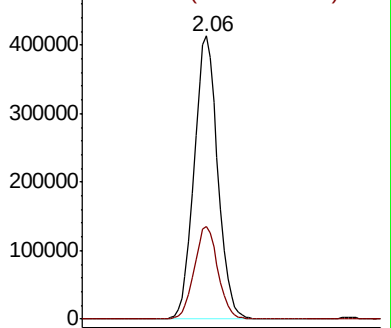
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 47.115 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN053090.D

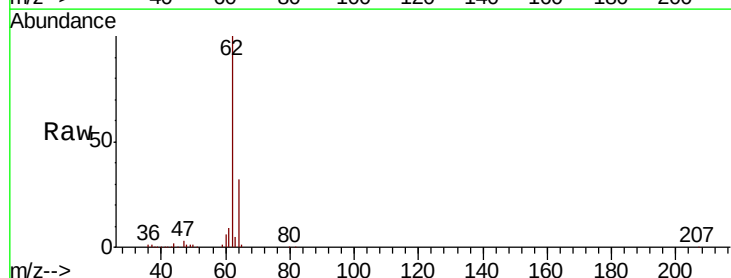
Acq: 21 Dec 2018 7:02

Tgt Ion: 62 Resp: 644254

Ion Ratio Lower Upper

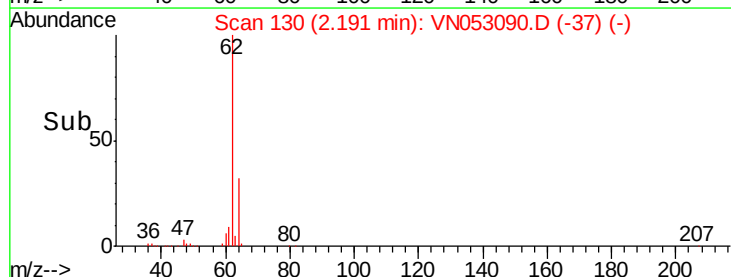
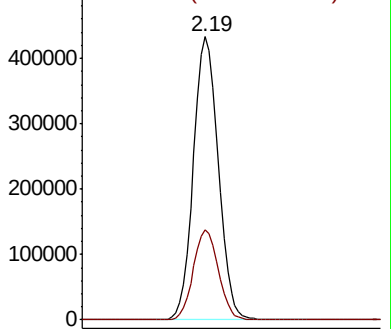
62 100

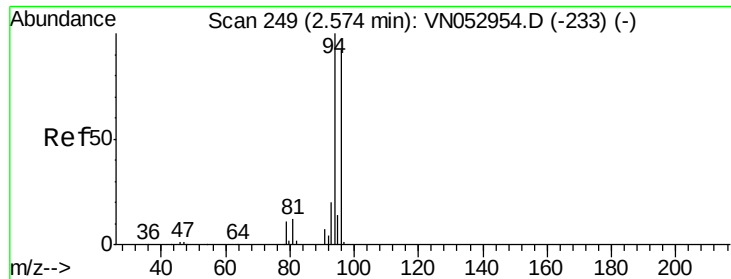
64 31.9 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 41.259 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 390881

Ion Ratio Lower Upper

94 100

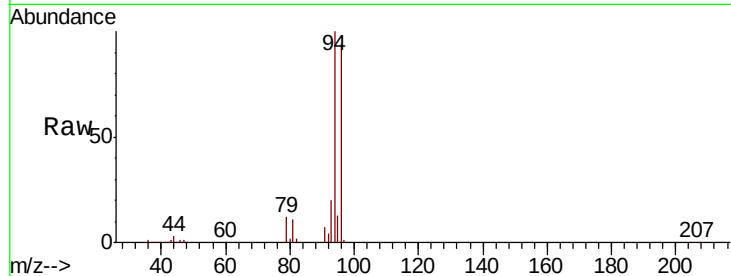
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Manual Integrations

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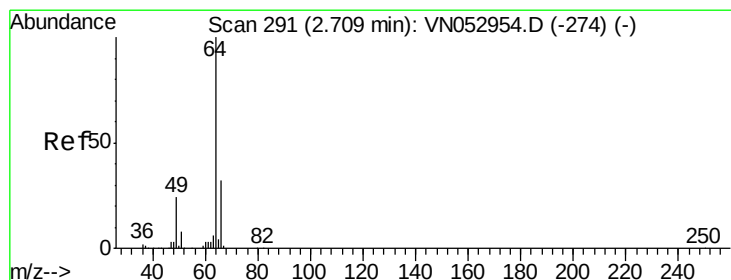
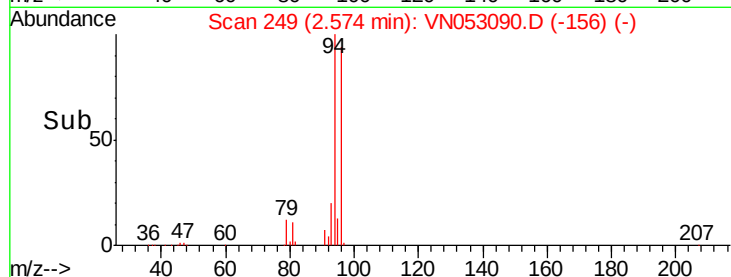
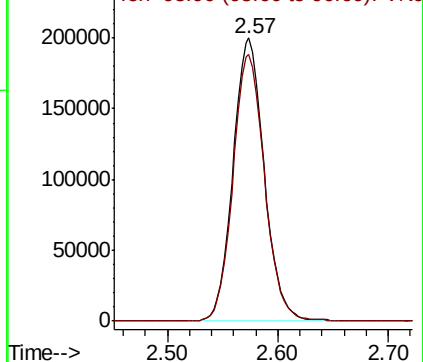
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 47.777 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN053090.D

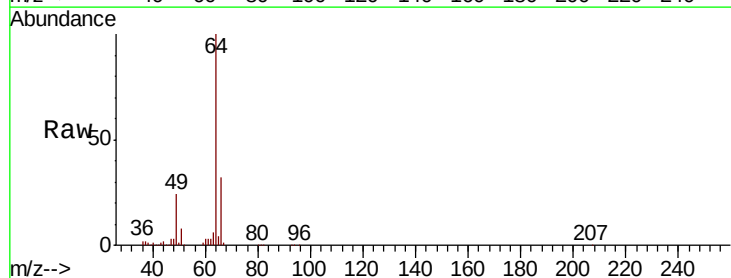
Acq: 21 Dec 2018 7:02

Tgt Ion: 64 Resp: 386914

Ion Ratio Lower Upper

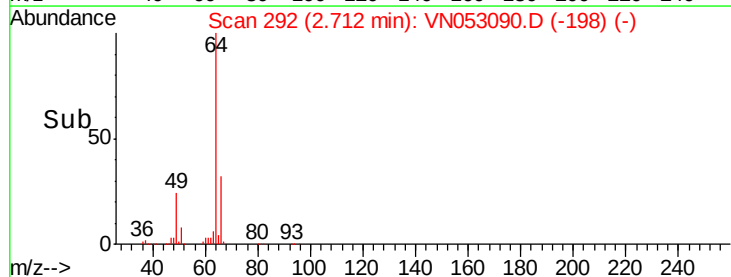
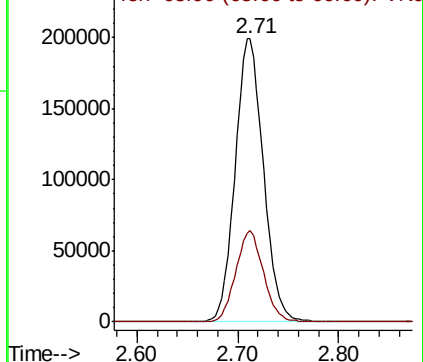
64 100

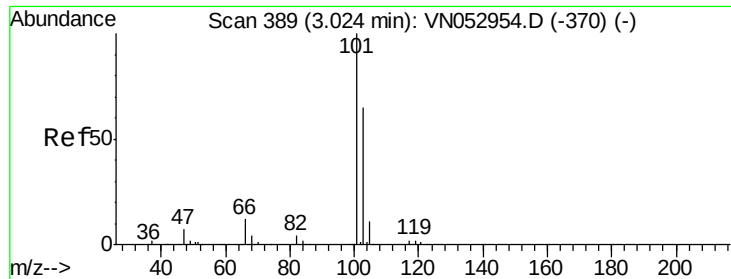
66 32.2 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

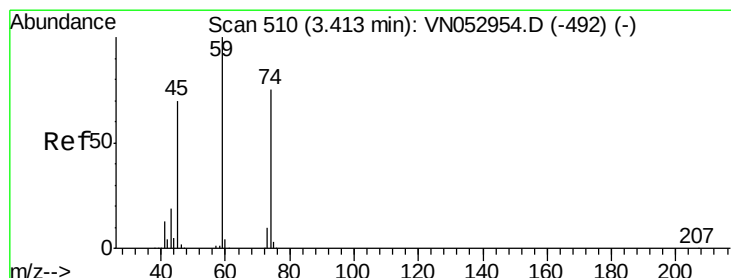
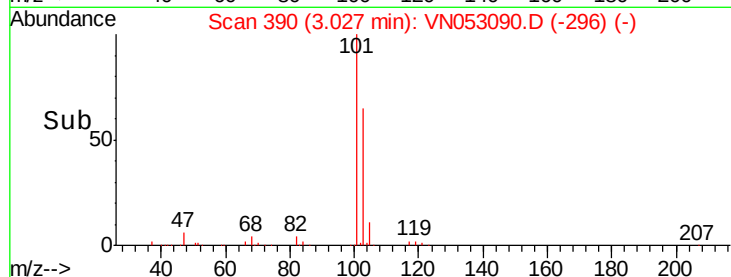
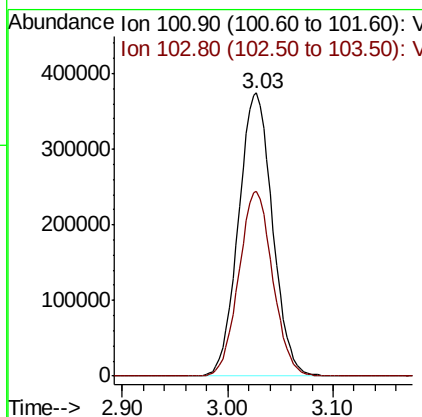
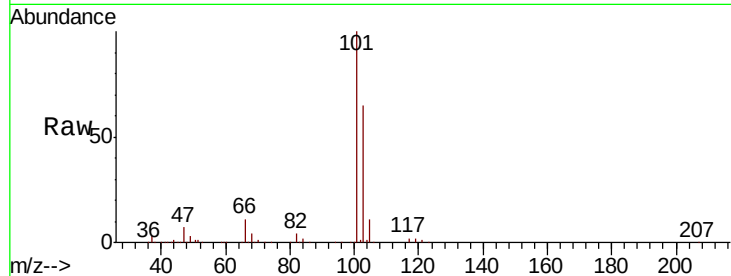
Trichlorofluoromethane
 Concen: 49.301 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Instrument :
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 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.8	77.6

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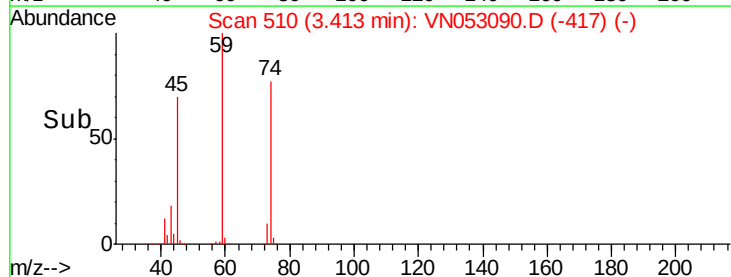
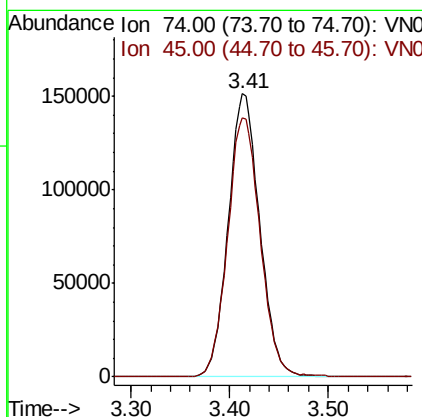
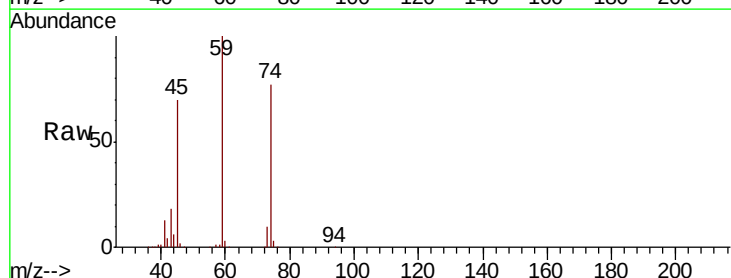
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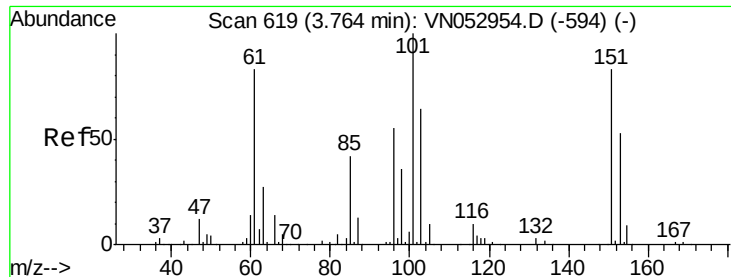


#8

Diethyl Ether
 Concen: 52.466 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.0	49.4	148.0





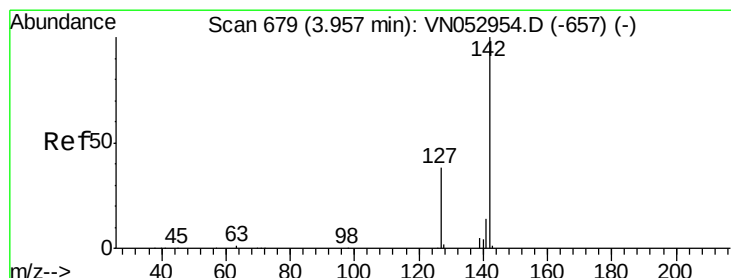
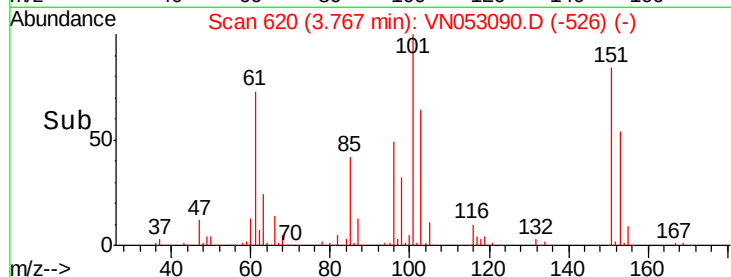
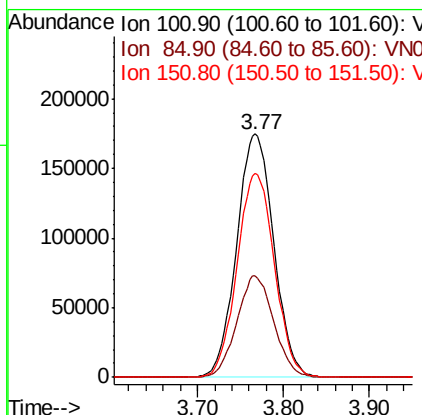
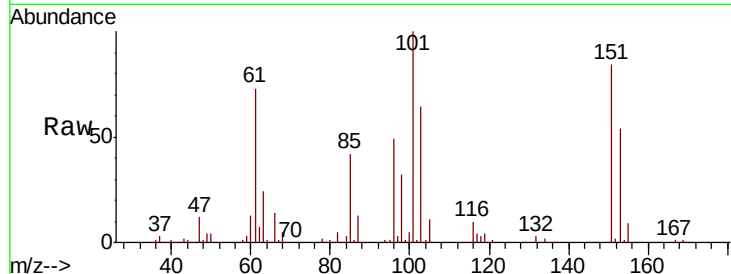
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 48.238 ug/l
 RT: 3.77 min Scan# 620
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
101	100	523911		
85	41.5	33.6	50.4	
151	84.3	65.5	98.3	

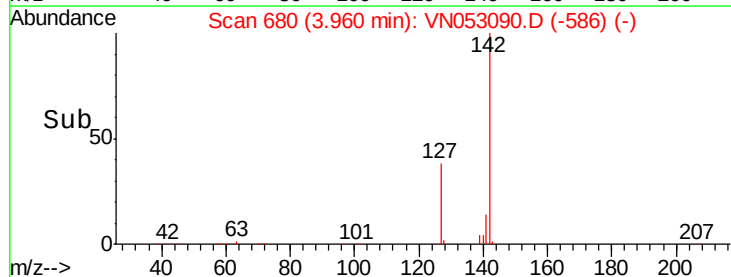
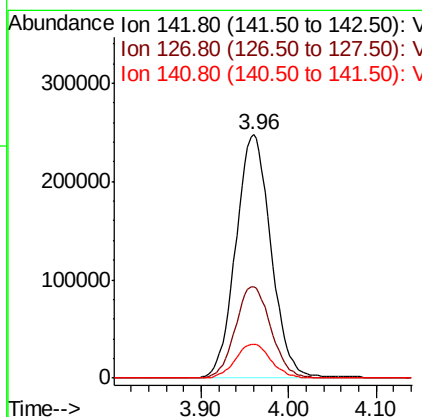
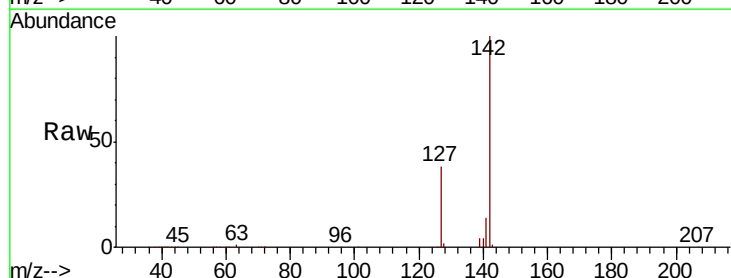
Manual Integrations
 APPROVED

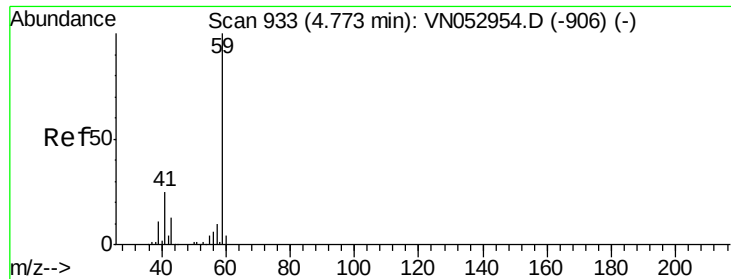
MMDadoda
 12/21/2018 11:32:03 AM



#10
 Methyl Iodide
 Concen: 45.211 ug/l
 RT: 3.96 min Scan# 680
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	689576		
127	38.3	31.0	46.6	
141	14.1	11.2	16.8	





#11

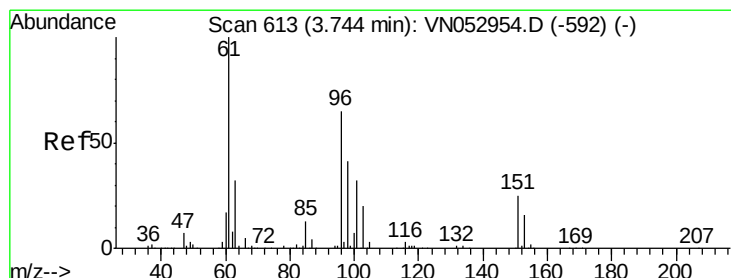
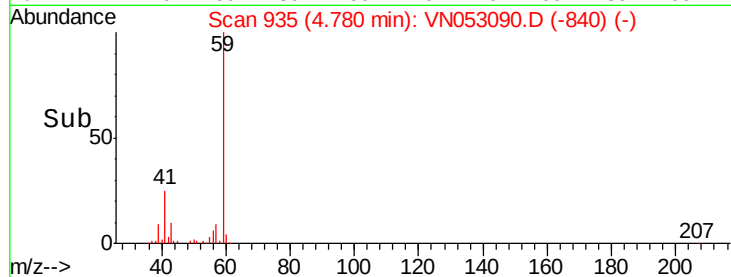
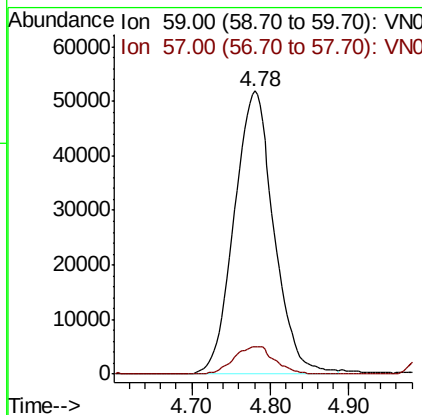
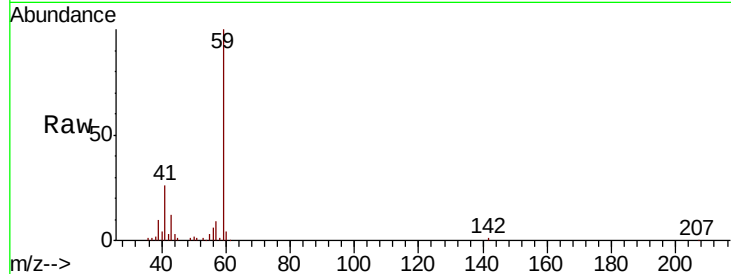
Tert butyl alcohol
 Concen: 269.378 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.01 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.0	7.7	11.5

Manual Integrations
 APPROVED

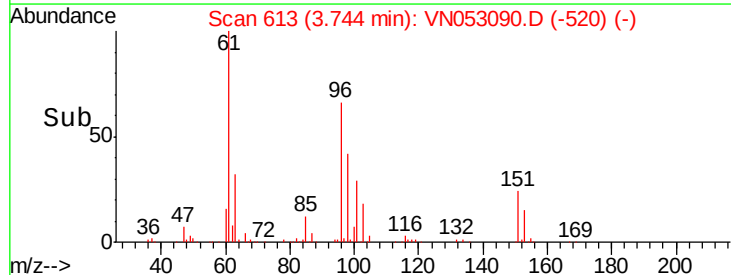
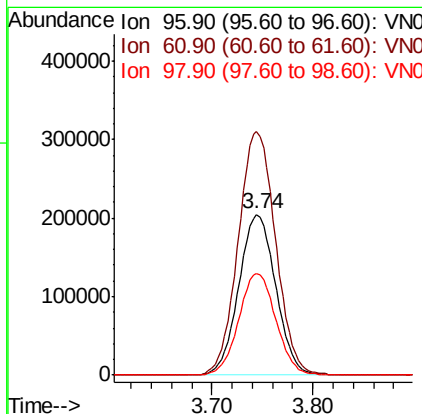
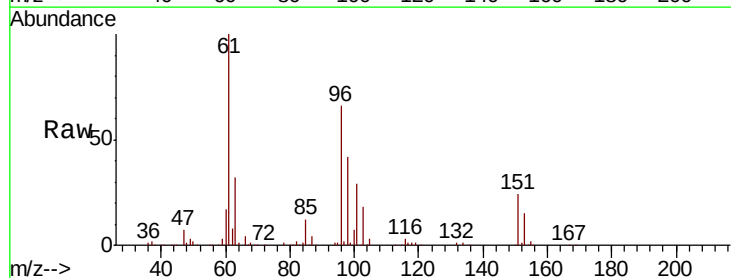
MMDadoda
 12/21/2018 11:32:03 AM

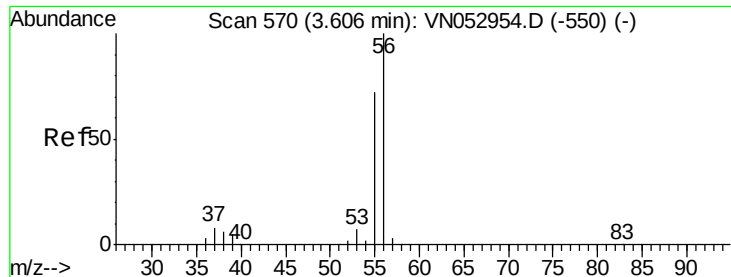


#12

1,1-Dichloroethene
 Concen: 49.665 ug/l
 RT: 3.74 min Scan# 613
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
96	100		
61	151.8	125.6	188.4
98	63.6	50.6	75.8





#13

Acrolein

Concen: 274.563 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 169706

Ion Ratio Lower Upper

56 100

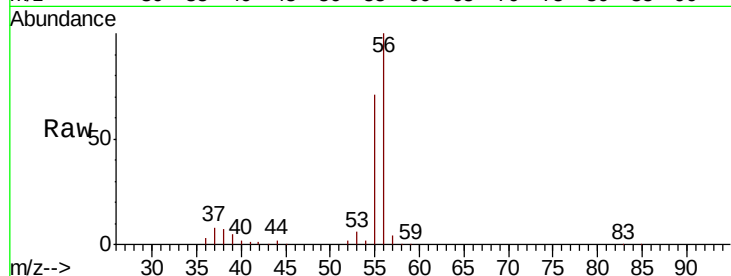
55 71.2 56.6 85.0

Manual Integrations

APPROVED

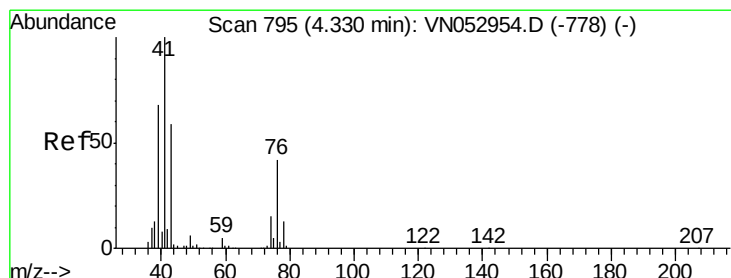
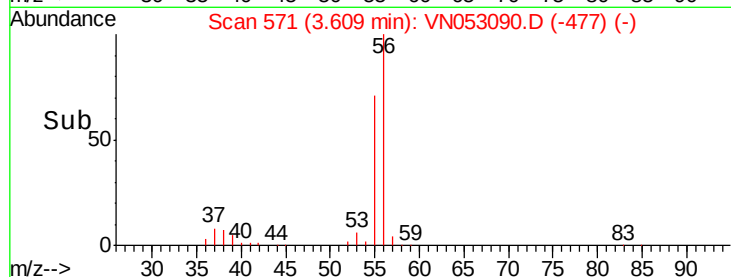
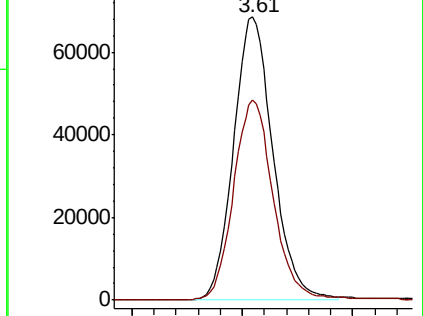
MMDadoda

12/21/2018 11:32:03 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 48.536 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

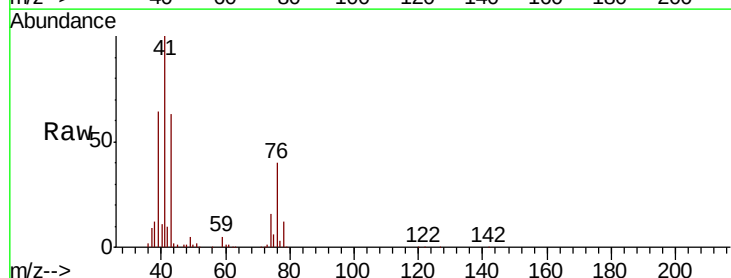
Tgt Ion: 41 Resp: 788871

Ion Ratio Lower Upper

41 100

39 66.0 54.1 81.1

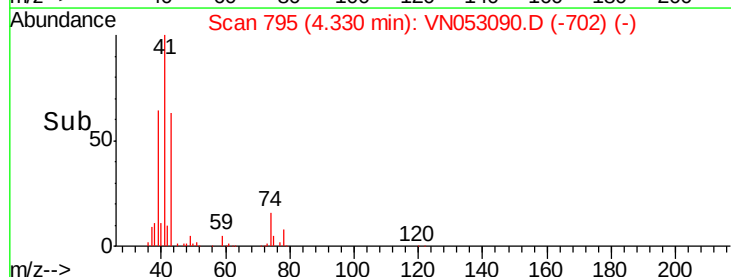
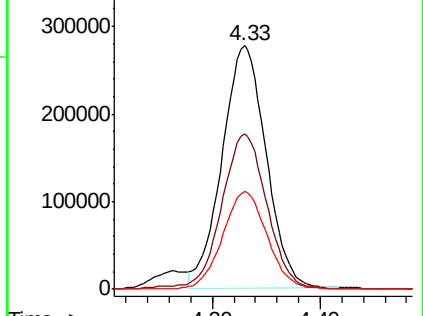
76 40.0 30.3 45.5

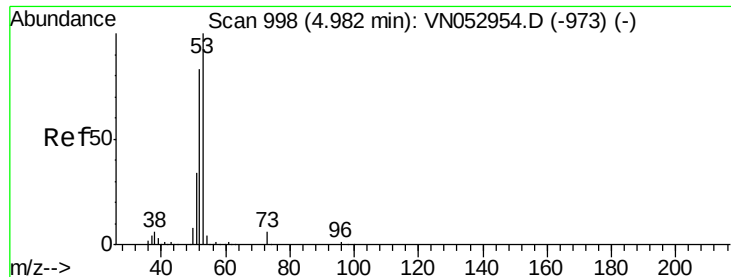


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 261.167 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Instrument :

MSVOA_N

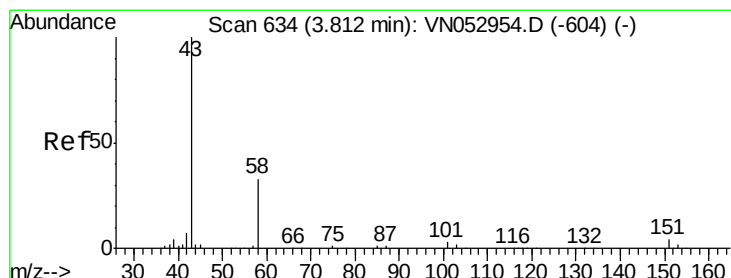
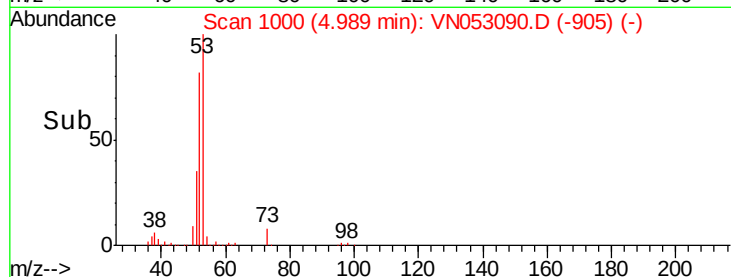
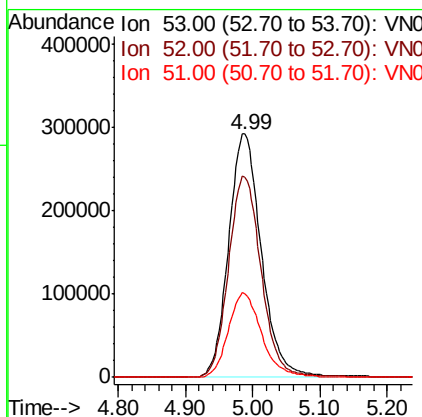
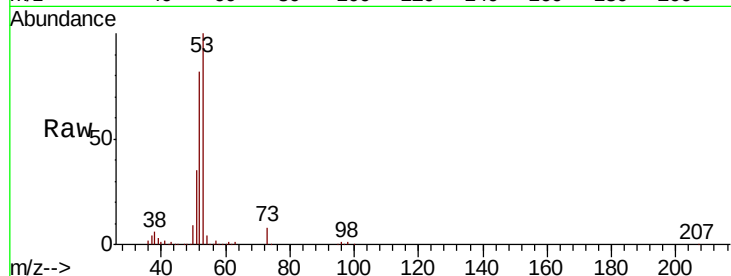
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	989041
Ion Ratio	Lower	Upper	
53	100		
52	82.4	65.1	97.7
51	35.5	28.1	42.1

Manual Integrations
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MMDadoda
12/21/2018 11:32:03 AM



#16

Acetone

Concen: 287.808 ug/l

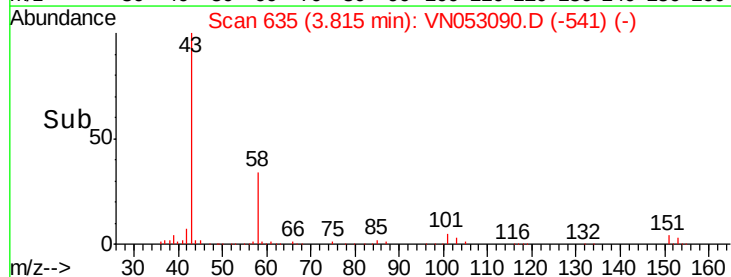
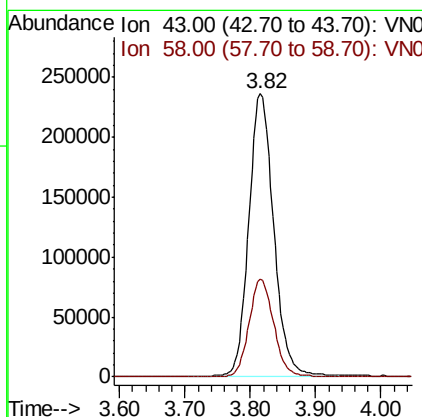
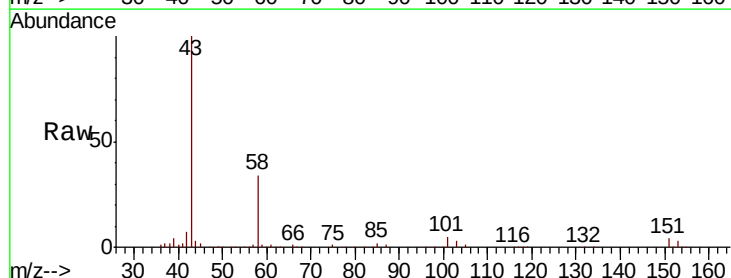
RT: 3.82 min Scan# 635

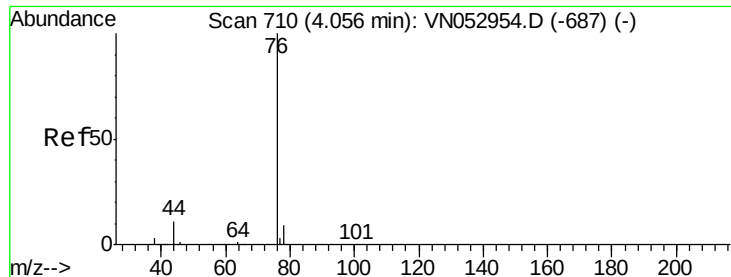
Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Tgt Ion:	43	Resp:	630433
Ion Ratio	Lower	Upper	
43	100		
58	34.2	25.4	38.0





#17

Carbon Disulfide

Concen: 43.536 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 1489811

Ion Ratio Lower Upper

76 100

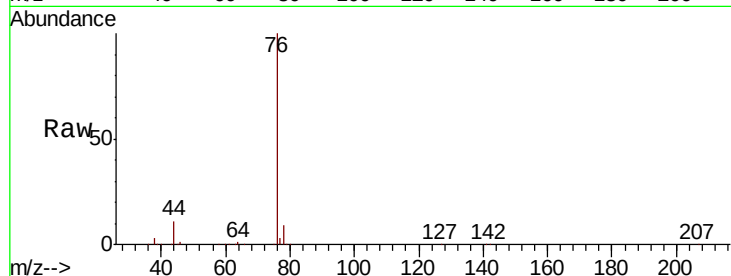
78 9.0 7.1 10.7

Manual Integrations

APPROVED

MMDadoda

12/21/2018 11:32:03 AM



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.06

600000

500000

400000

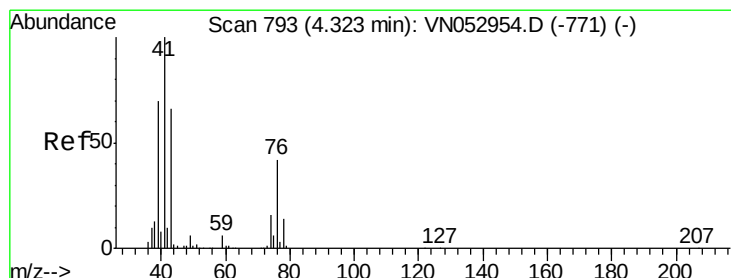
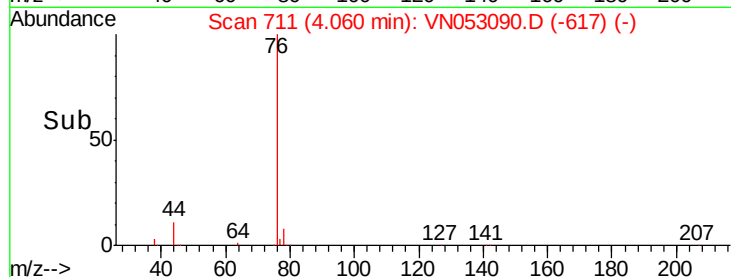
300000

200000

100000

0

Time--> 3.90 4.00 4.10 4.20



#18

Methyl Acetate

Concen: 52.290 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053090.D

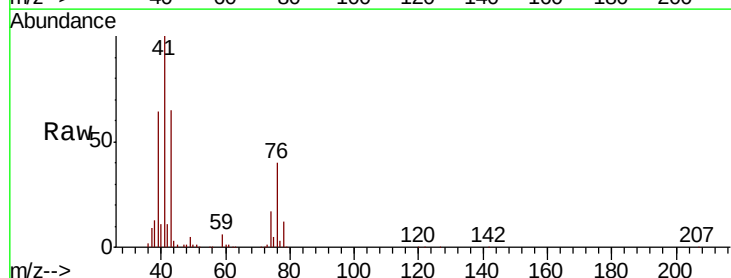
Acq: 21 Dec 2018 7:02

Tgt Ion: 43 Resp: 520320

Ion Ratio Lower Upper

43 100

74 24.9 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

4.33

200000

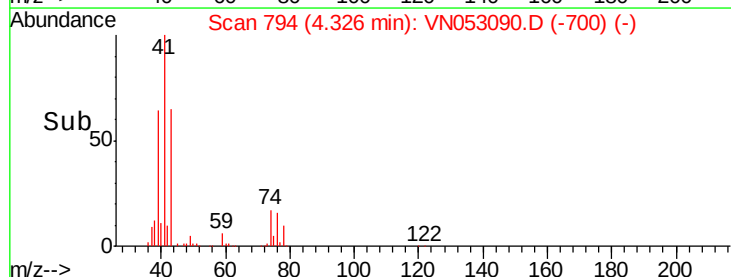
150000

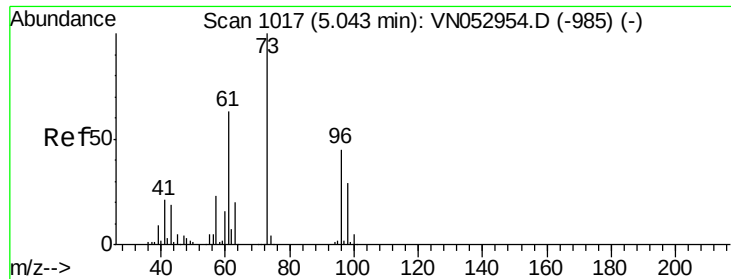
100000

50000

0

Time--> 4.20 4.30 4.40 4.50





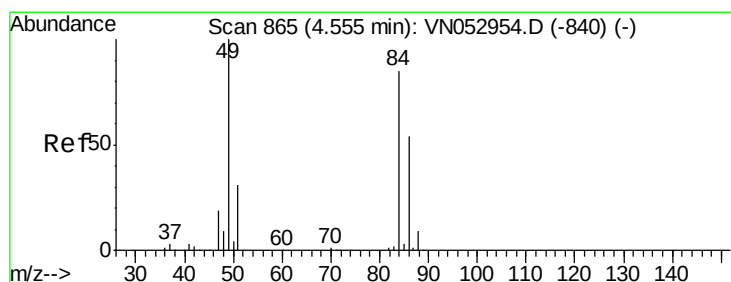
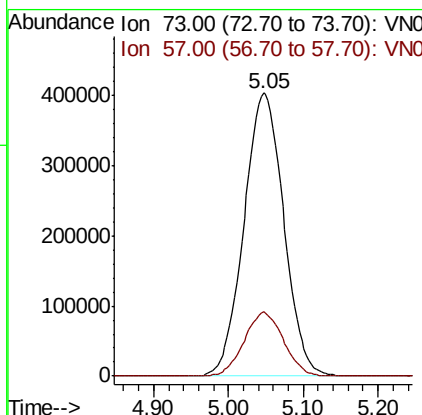
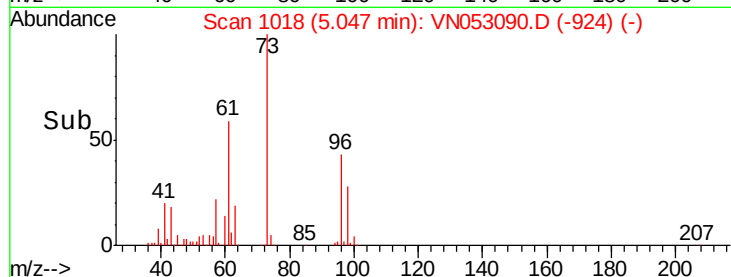
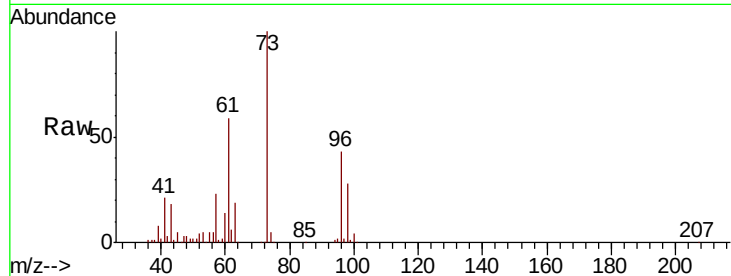
#19
Methvl tert-butyl Ether
Concen: 53.157 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 1492648
Ion Ratio Lower Upper
73 100
57 22.6 18.4 27.6

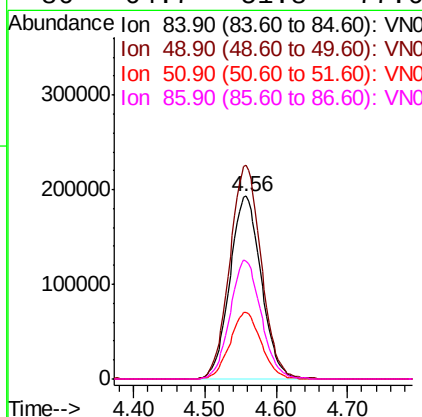
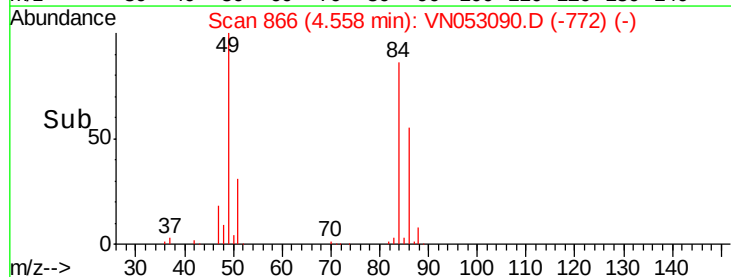
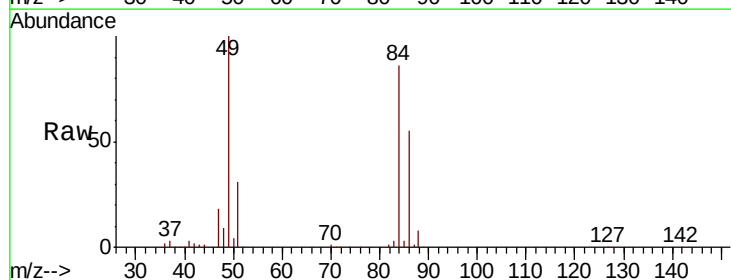
Manual Integrations
APPROVED

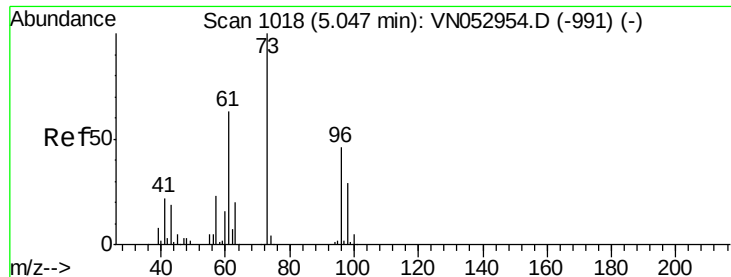
MMDadoda
12/21/2018 11:32:03 AM



#20
Methylene Chloride
Concen: 49.686 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion: 84 Resp: 593689
Ion Ratio Lower Upper
84 100
49 116.9 96.8 145.2
51 36.6 29.9 44.9
86 64.7 51.8 77.6





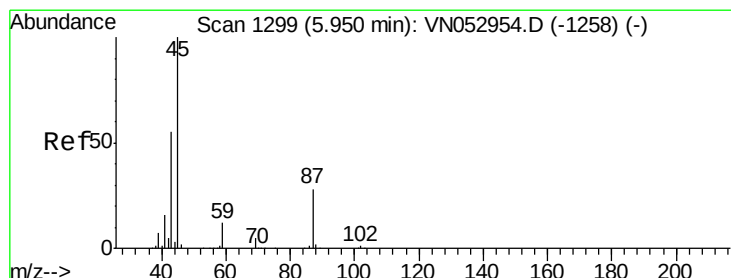
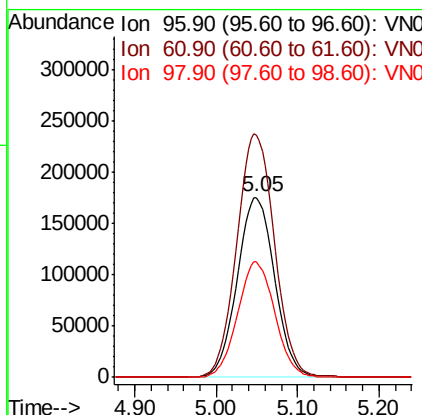
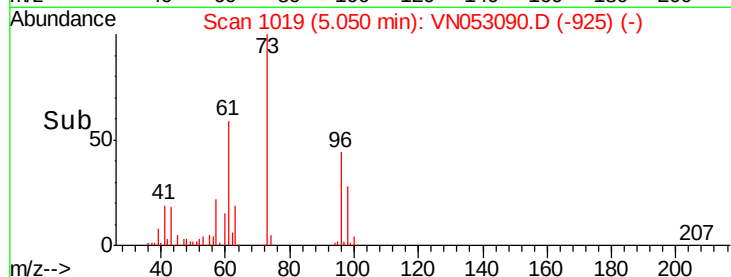
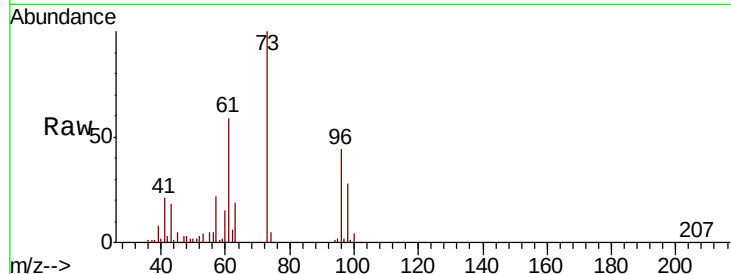
#21
trans-1,2-Dichloroethene
Concen: 49.527 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.0	110.8	166.2
98	64.2	51.4	77.2

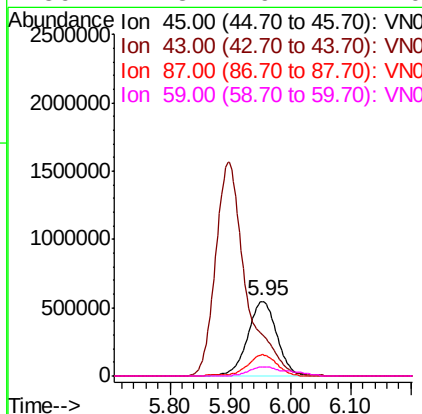
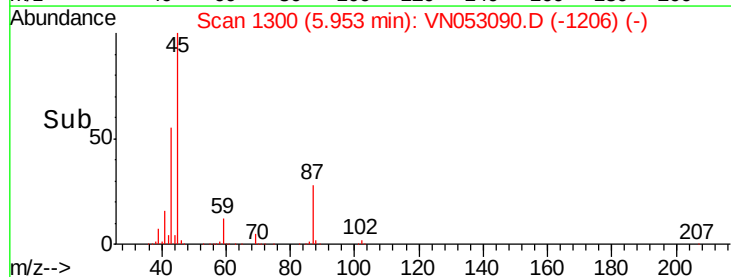
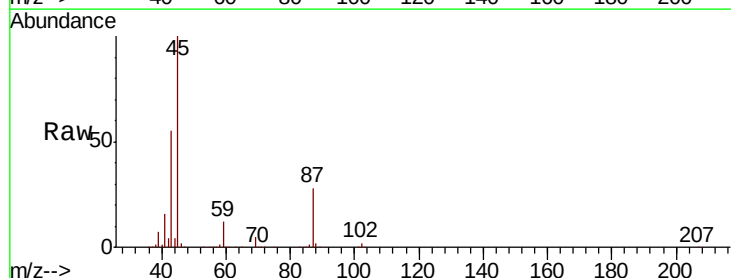
Manual Integrations
APPROVED

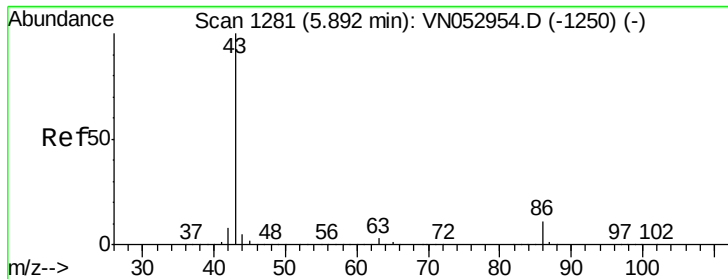
MMDadoda
12/21/2018 11:32:03 AM



#22
Diisopropyl ether
Concen: 53.300 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
45	100		
43	54.9	45.5	68.3
87	28.3	22.0	33.0
59	12.3	9.4	14.0





#23

Vinyl Acetate

Concen: 273.196 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 5450067

Ion Ratio Lower Upper

43 100

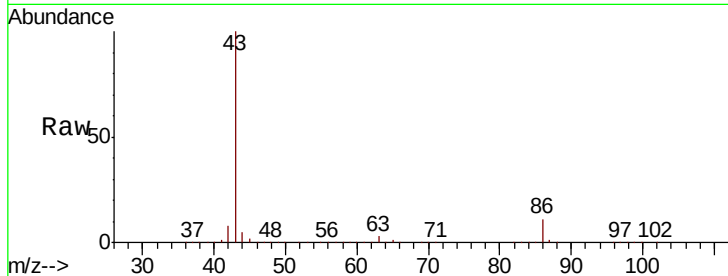
86 10.8 8.1 12.1

Manual Integrations

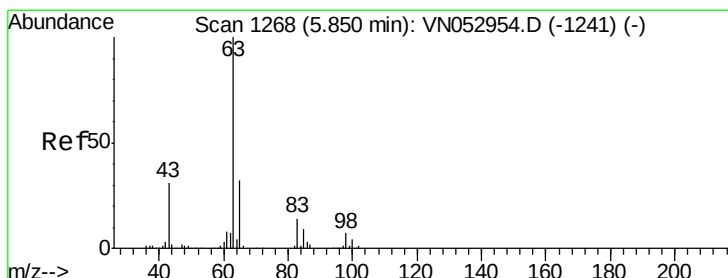
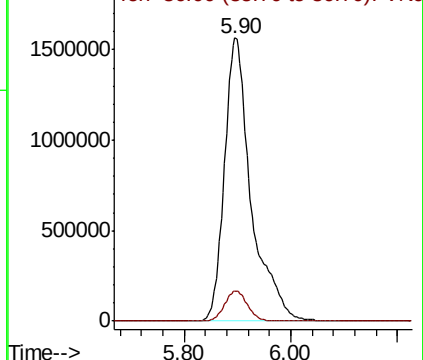
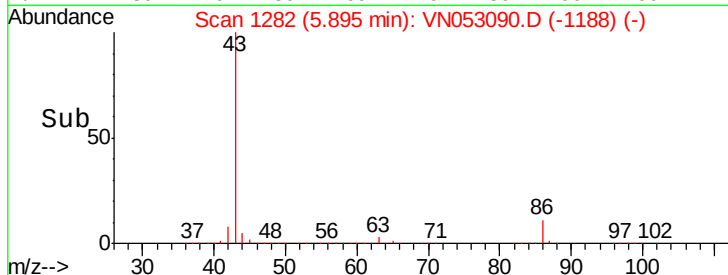
APPROVED

MMDadoda

12/21/2018 11:32:03 AM



Abundance Ion 43.00 (42.70 to 43.70): VN053090.D (-1188) (-)



#24

1,1-Dichloroethane

Concen: 51.434 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

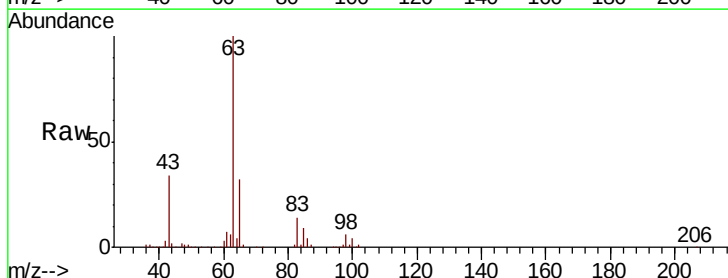
Tgt Ion: 63 Resp: 1060336

Ion Ratio Lower Upper

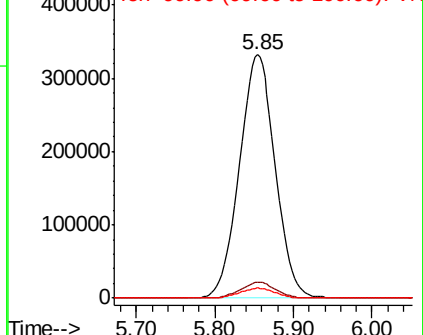
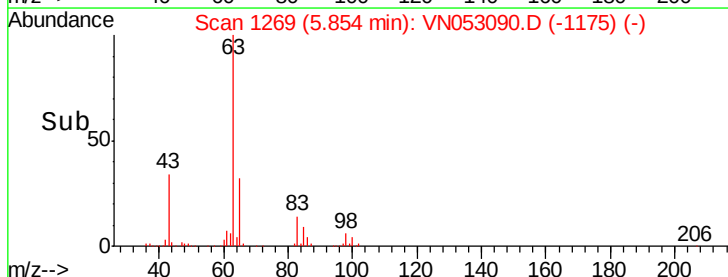
63 100

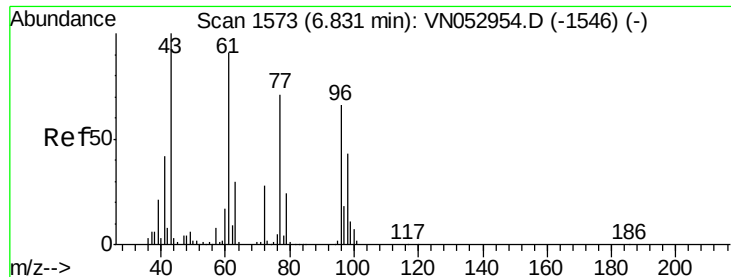
98 6.4 3.1 9.4

100 4.1 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VN053090.D (-1175) (-)





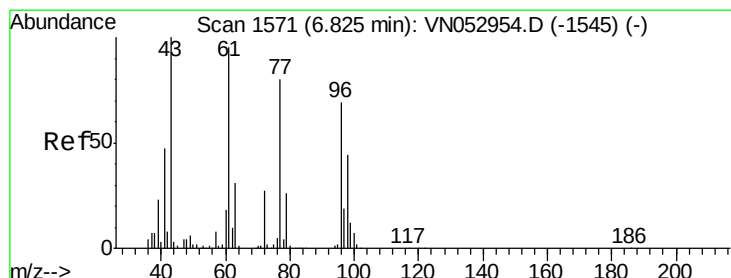
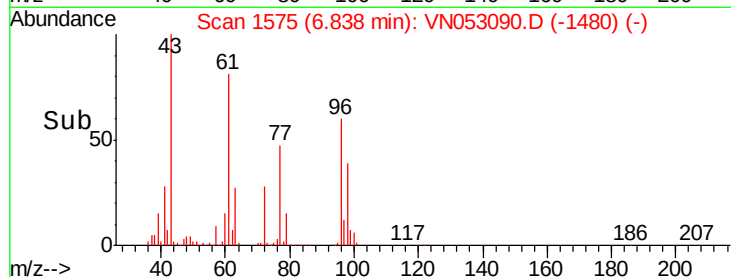
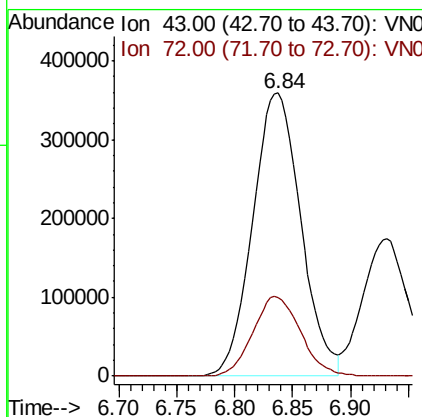
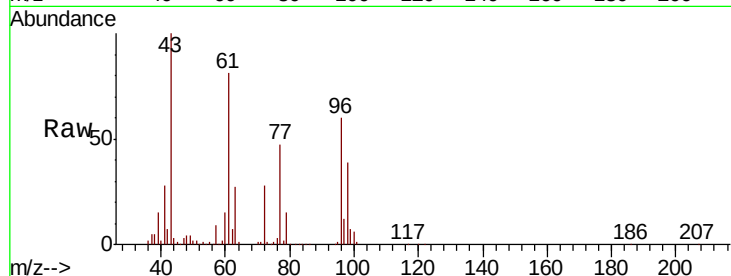
#25
2-Butanone
Concen: 281.454 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.01 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 1034664
Ion Ratio Lower Upper
43 100
72 27.8 21.0 31.6

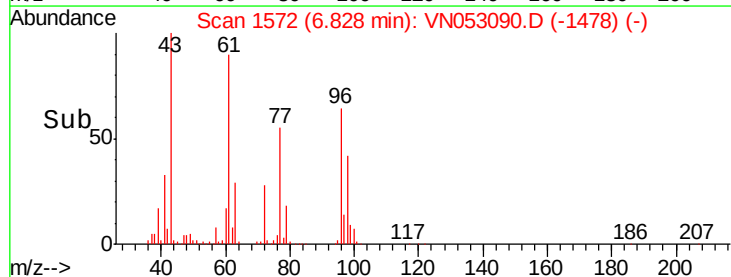
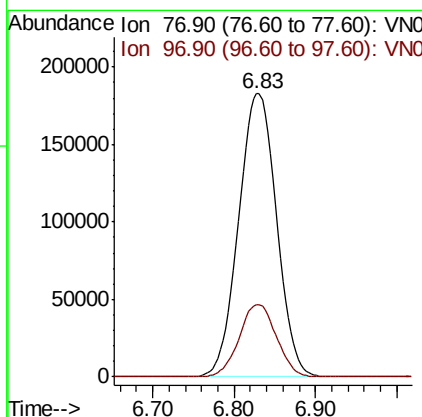
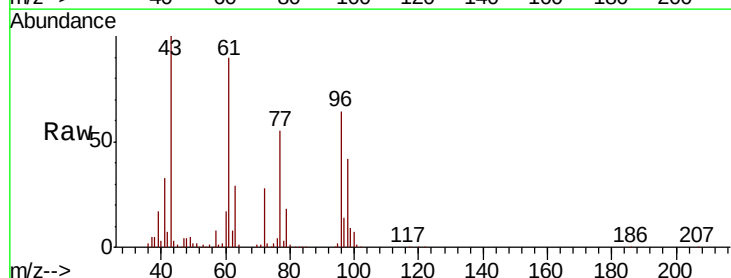
Manual Integrations
APPROVED

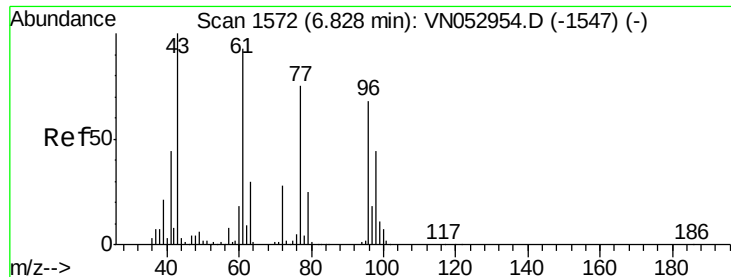
MMDadoda
12/21/2018 11:32:03 AM



#26
2,2-Dichloropropane
Concen: 37.398 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion: 77 Resp: 588534
Ion Ratio Lower Upper
77 100
97 25.2 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 50.823 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Instrument :

MSVOA_N

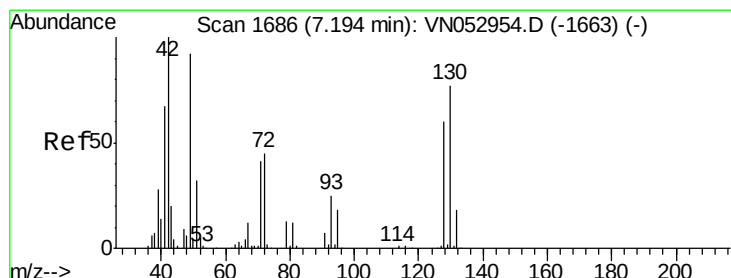
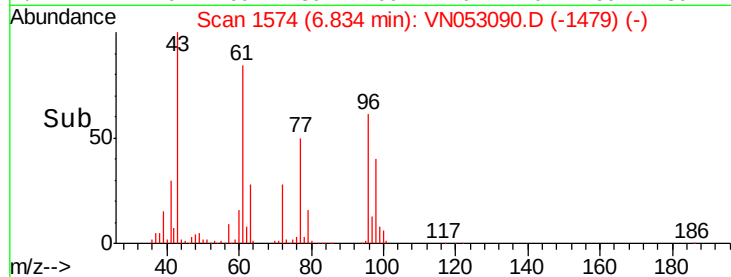
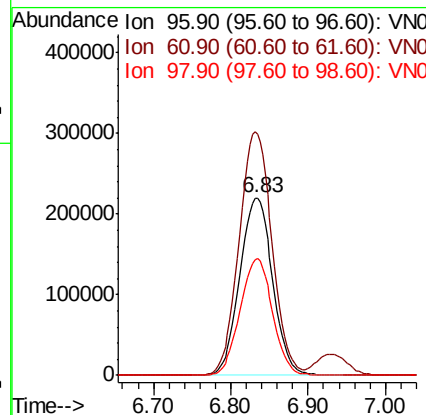
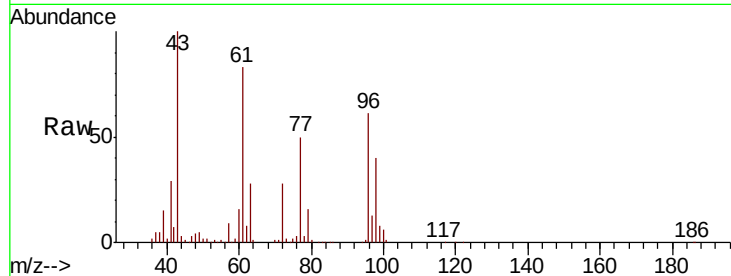
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	648660
Ion Ratio	Lower	Upper	
96	100		
61	137.3	0.0	284.2
98	65.0	0.0	129.2

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:32:03 AM



#28

Bromochloromethane

Concen: 52.898 ug/l

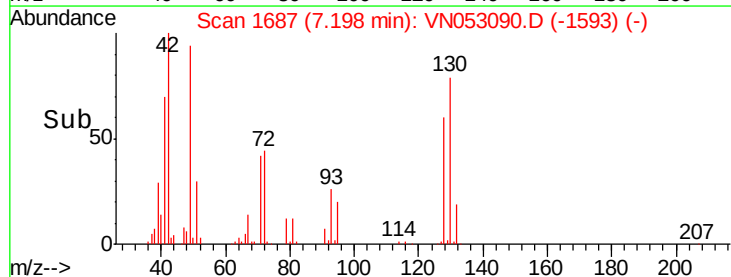
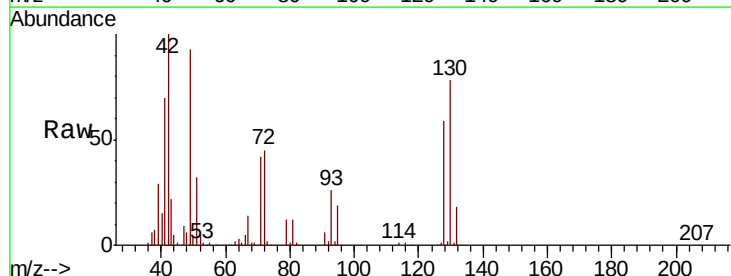
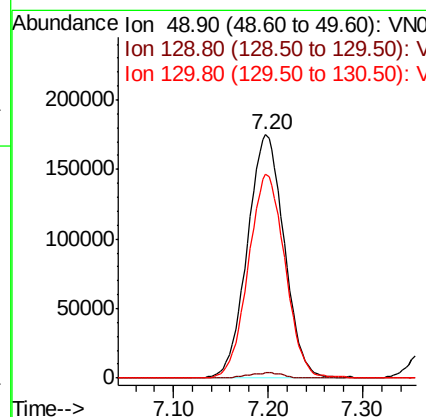
RT: 7.20 min Scan# 1687

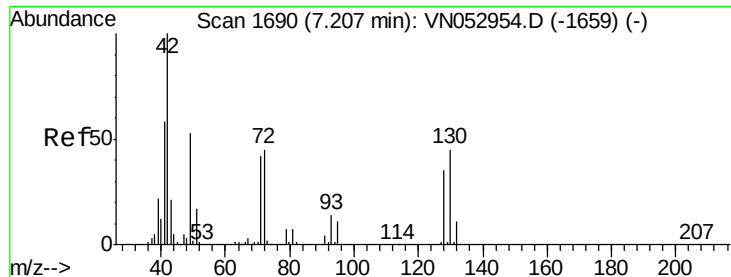
Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Tgt Ion:	49	Resp:	472536
Ion Ratio	Lower	Upper	
49	100		
129	2.0	0.0	4.0
130	83.5	63.3	94.9





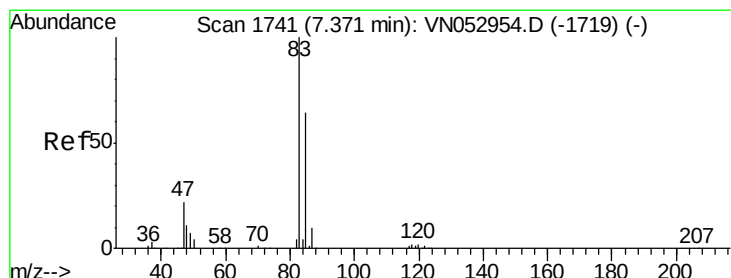
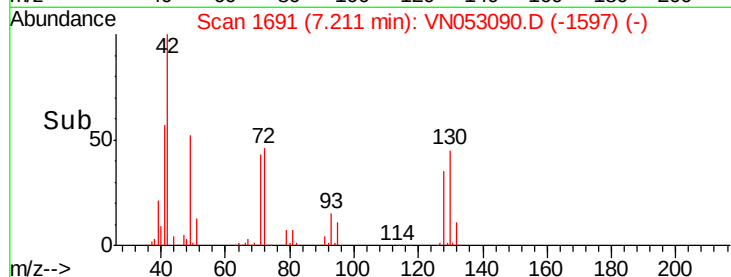
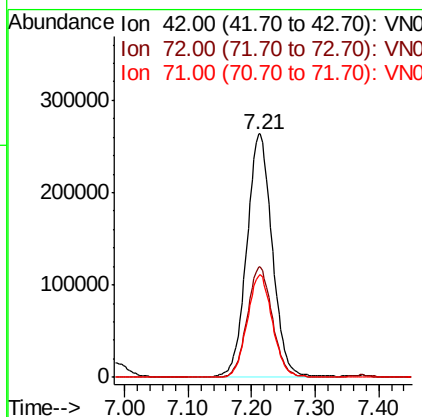
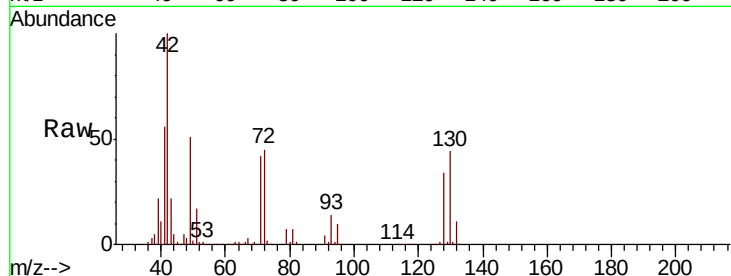
#29
Tetrahydrofuran
Concen: 266.985 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.8	34.7	52.1
71	41.7	32.3	48.5

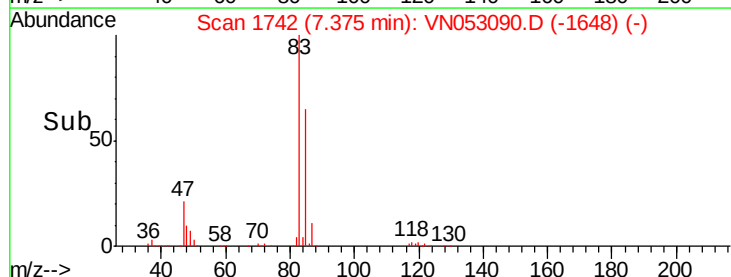
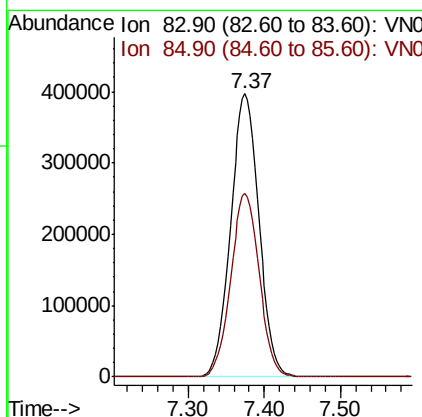
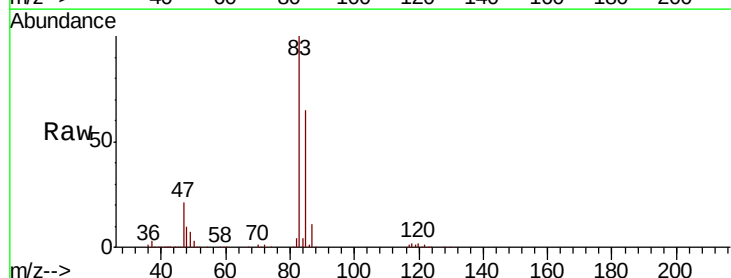
Manual Integrations
APPROVED

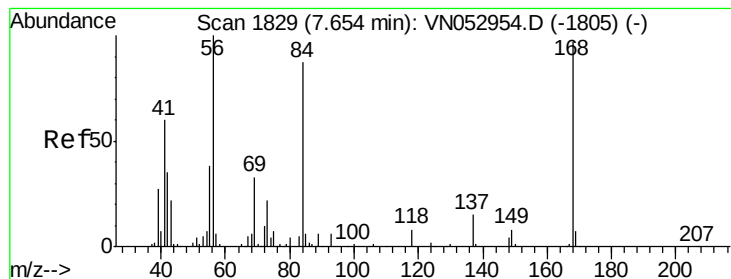
MMDadoda
12/21/2018 11:32:03 AM



#30
Chloroform
Concen: 50.760 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.1	78.1





#31

Cyclohexane

Concen: 49.586 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Instrument :

MSVOA_N

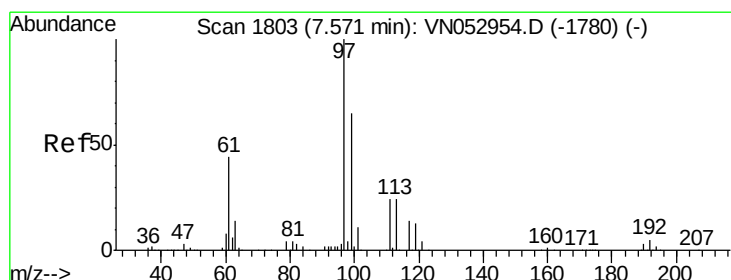
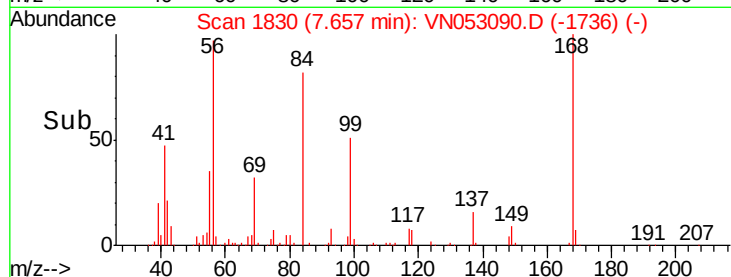
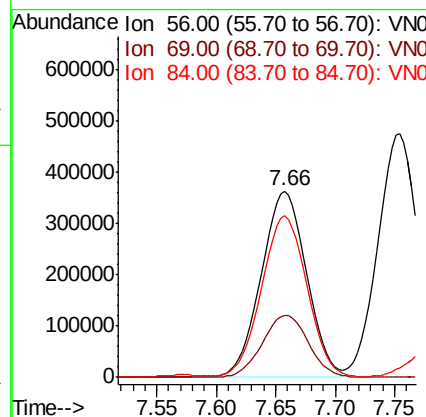
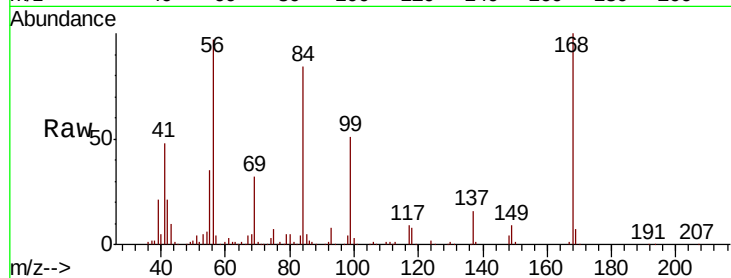
ClientSampleId :

VSTDCCC050EC

Tot Ion:	56	Resp:	958894
Ion Ratio	Lower	Upper	
56	100		
69	33.4	26.6	39.8
84	85.7	68.4	102.6

Manual Integrations
APPROVED

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12/21/2018 11:32:03 AM



#32

1,1,1-Trichloroethane

Concen: 50.766 ug/l

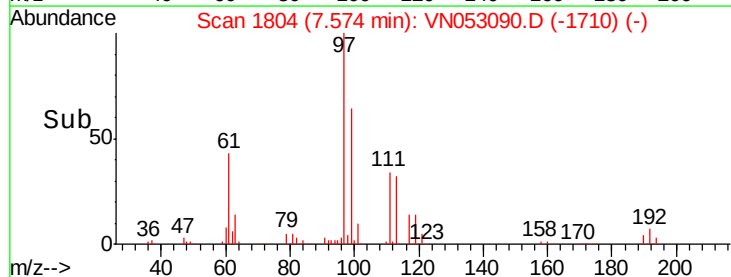
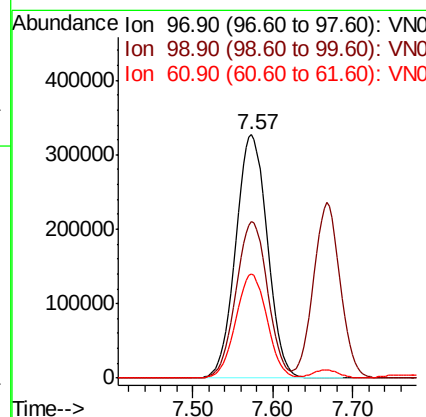
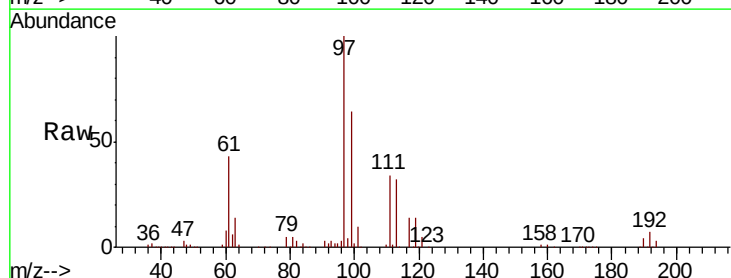
RT: 7.57 min Scan# 1804

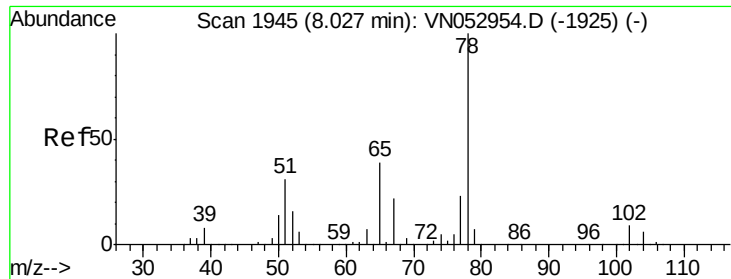
Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Tgt Ion:	97	Resp:	875795
Ion Ratio	Lower	Upper	
97	100		
99	64.3	51.1	76.7
61	42.3	35.0	52.6





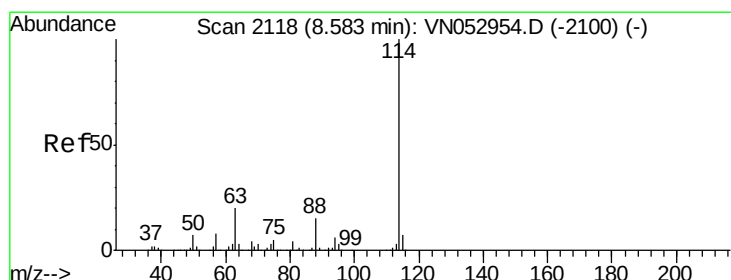
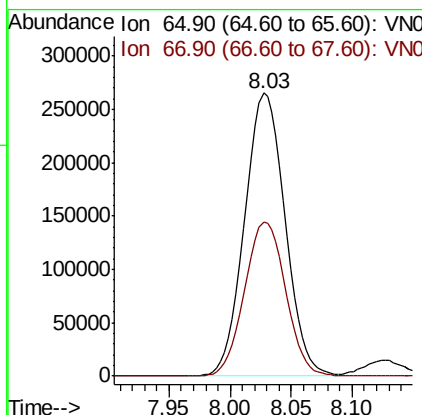
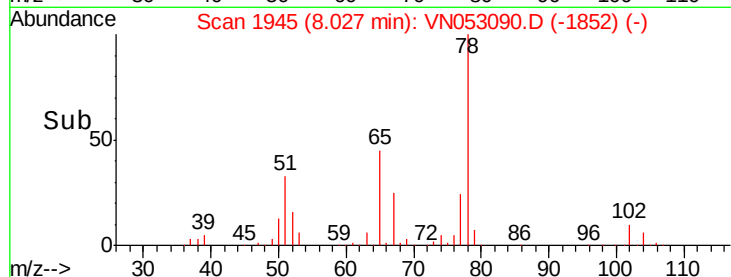
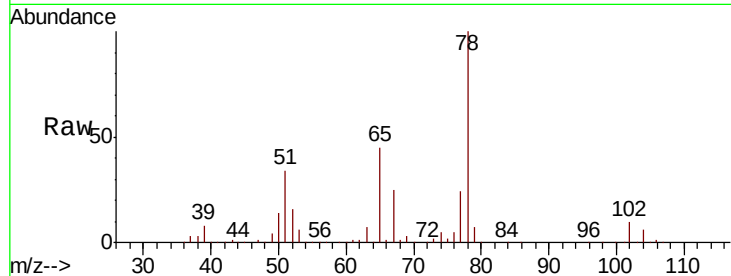
#33
 1,2-Dichloroethane-d4
 Concen: 50.766 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100	610020		
67	55.3	0.0	110.4	

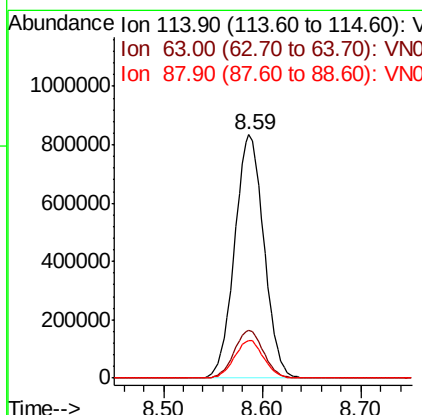
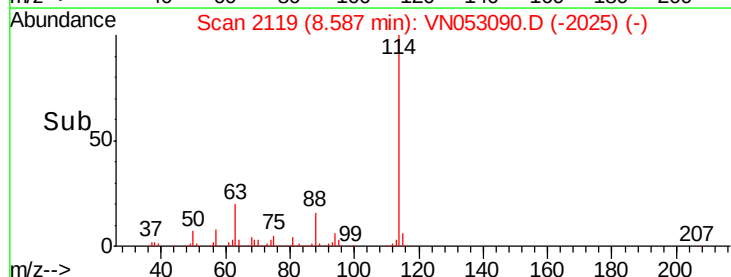
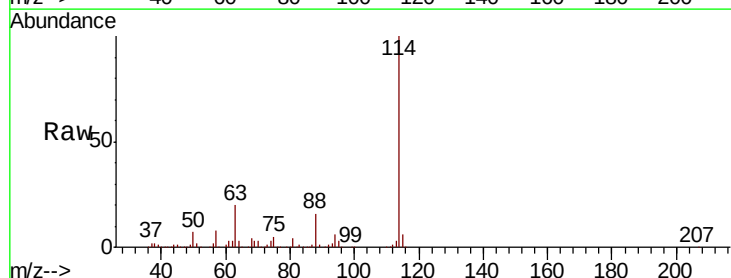
Manual Integrations
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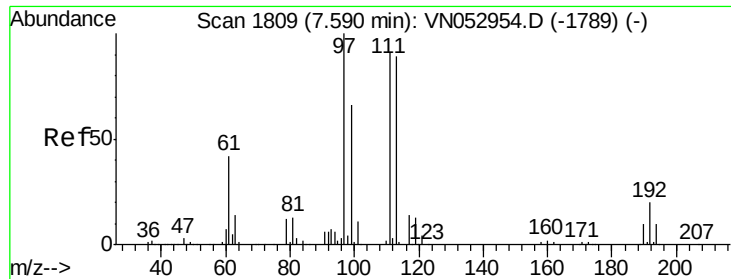
MMDadoda
 12/21/2018 11:32:03 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1718081		
63	19.6	0.0	39.8	
88	15.7	0.0	31.0	





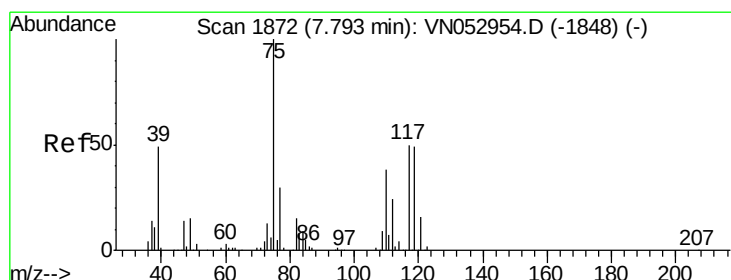
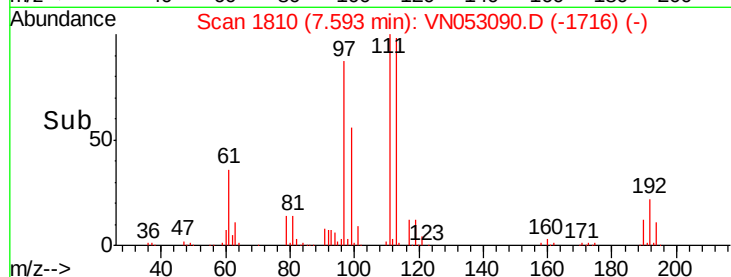
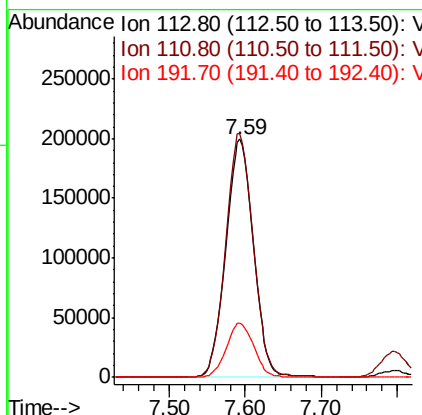
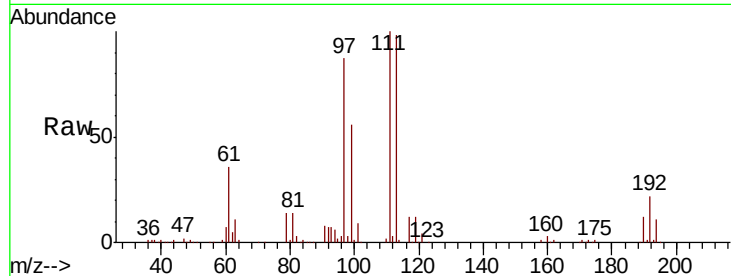
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	505031		
111	102.5	83.0	124.4	
192	22.6	17.5	26.3	

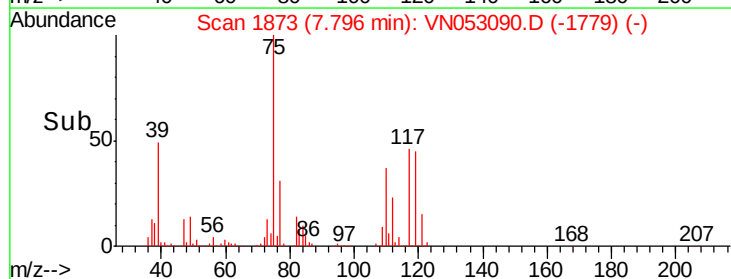
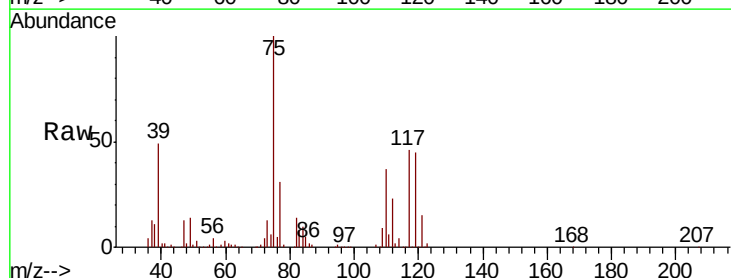
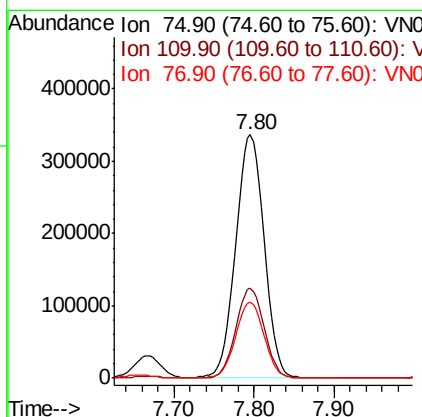
Manual Integrations
APPROVED

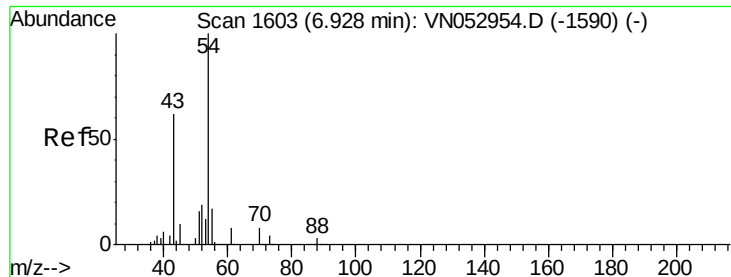
MMDadoda
12/21/2018 11:32:03 AM



#36
1,1-Dichloropropene
Concen: 48.873 ug/l
RT: 7.80 min Scan# 1873
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	805944		
110	36.5	18.2	54.6	
77	31.3	24.9	37.3	





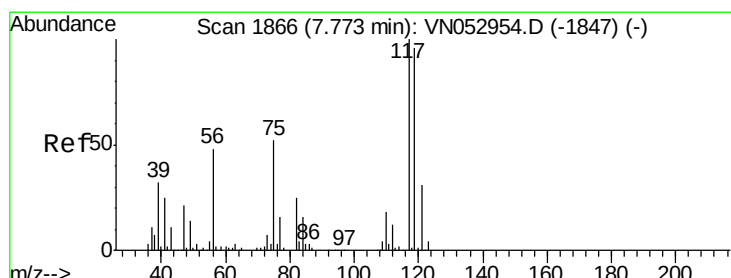
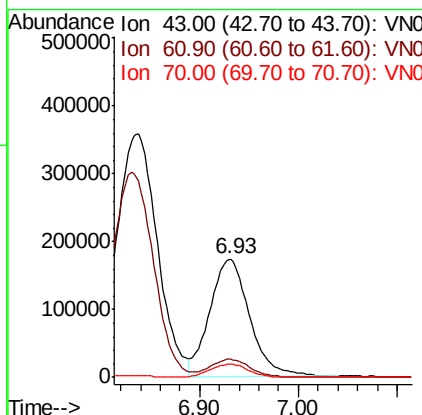
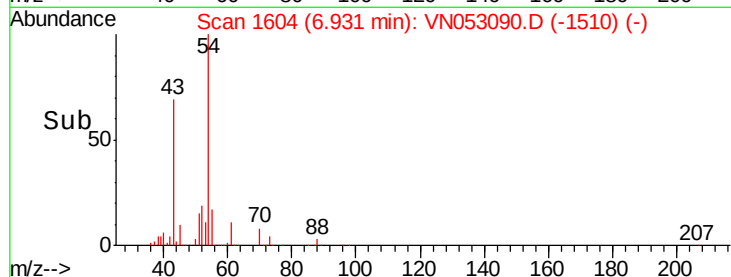
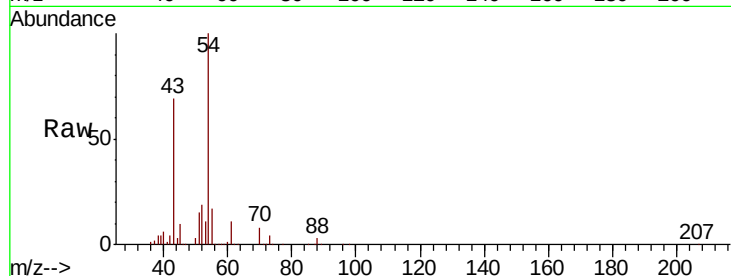
#37
Ethyl Acetate
Concen: 52.940 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	43	61	70
Resp	487362		
Ratio	100	14.5	10.7
Lower		11.8	8.4
Upper		17.6	12.6

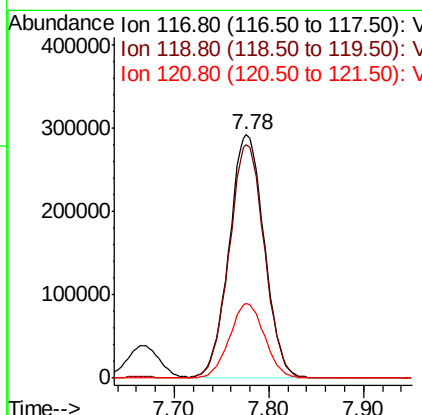
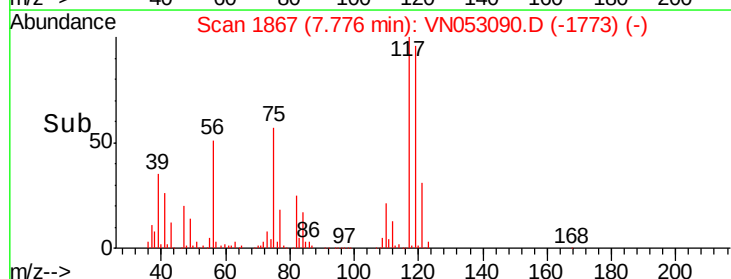
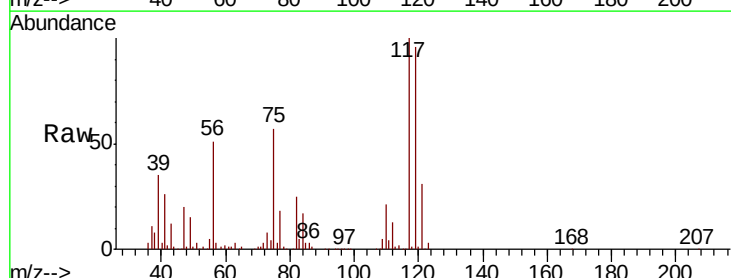
Manual Integrations
APPROVED

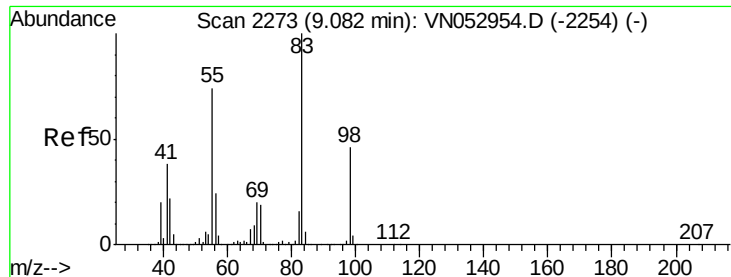
MMDadoda
12/21/2018 11:32:03 AM



#38
Carbon Tetrachloride
Concen: 49.678 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion	117	119	121
Resp	750892		
Ratio	100	96.1	30.7
Lower		77.1	24.9
Upper		115.7	37.3





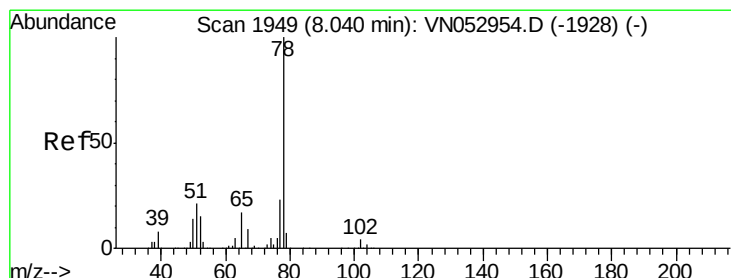
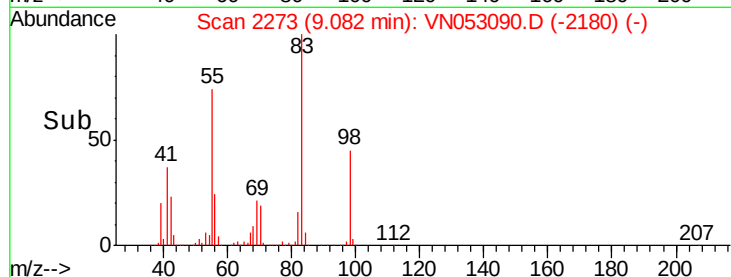
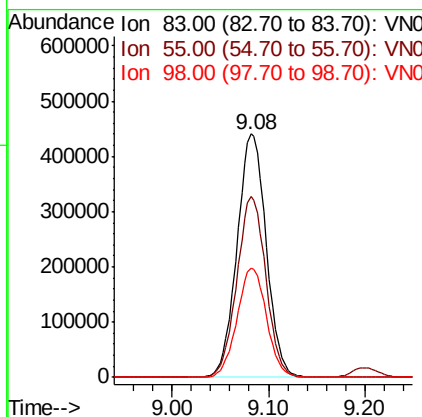
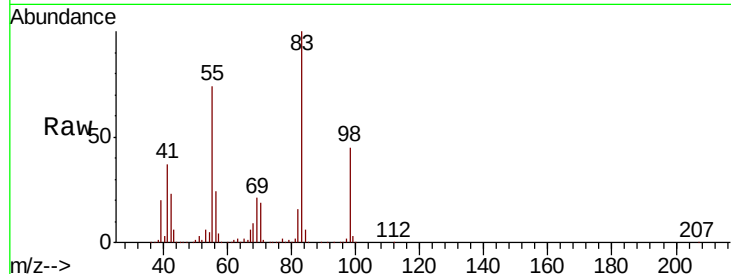
#39
Methylvlcyclohexane
Concen: 46.021 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.2	61.3	91.9
98	44.8	37.0	55.4

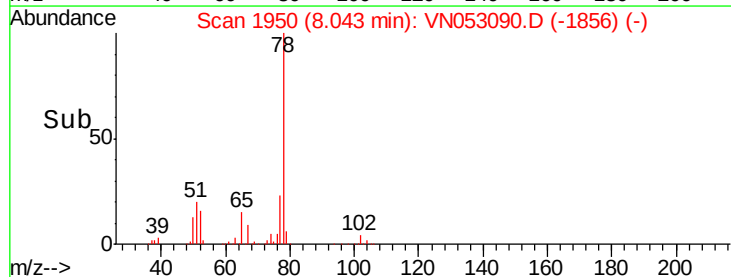
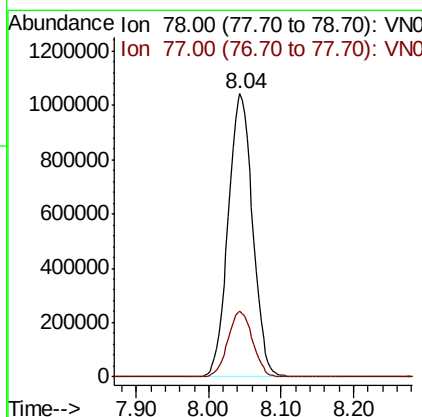
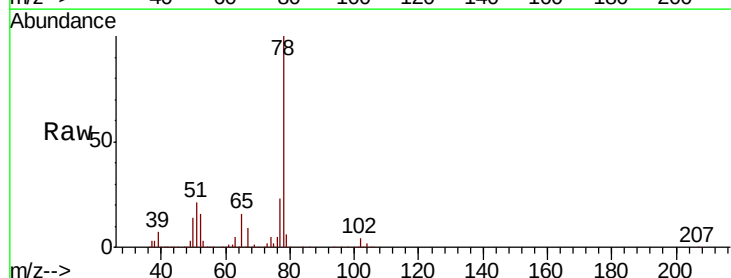
Manual Integrations
APPROVED

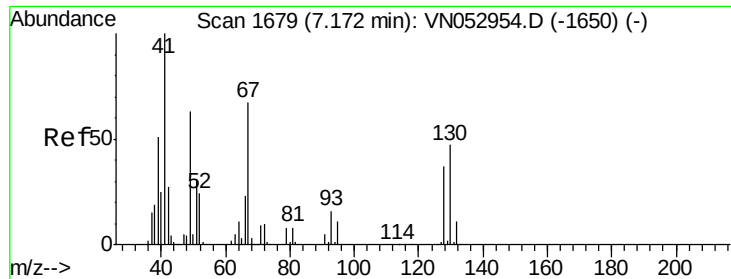
MMDadoda
12/21/2018 11:32:03 AM



#40
Benzene
Concen: 49.884 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.5	27.7





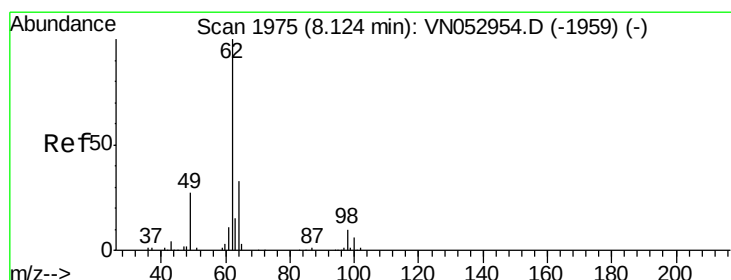
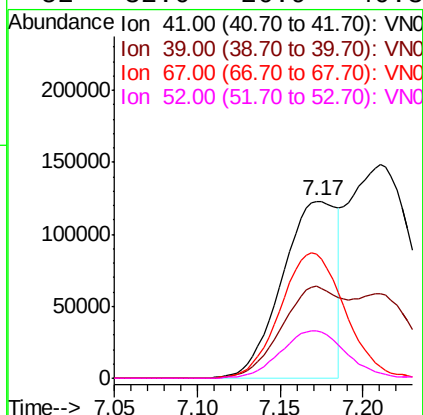
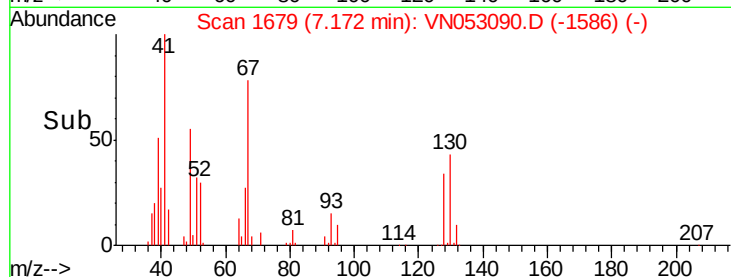
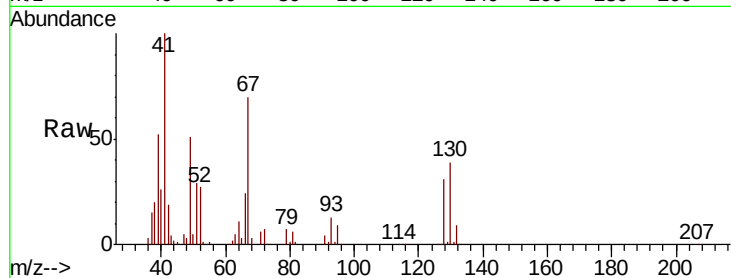
#41
Methacrylonitrile
Concen: 52.927 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	41	Resp	281521
Ion Ratio	Lower	Upper	
41	100		
39	58.6	48.0	72.0
67	84.5	70.3	105.5
52	32.0	26.9	40.3

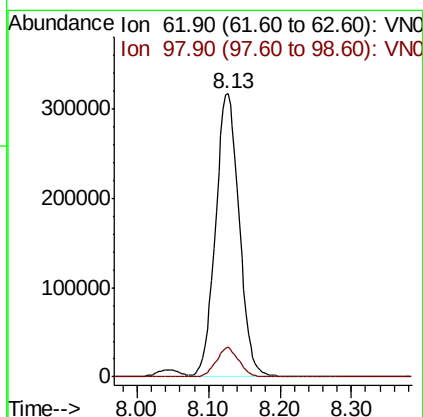
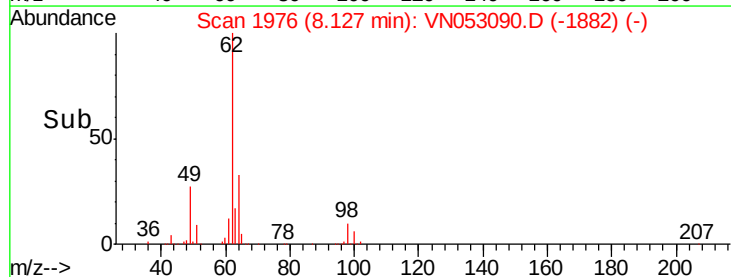
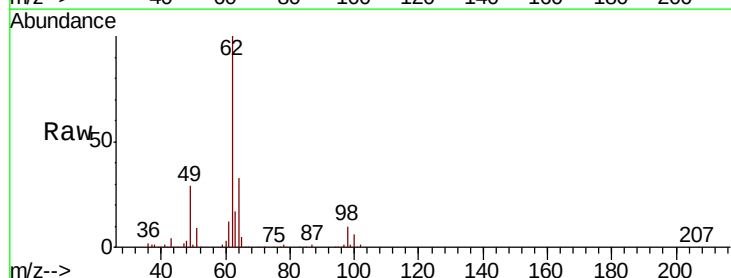
Manual Integrations
APPROVED

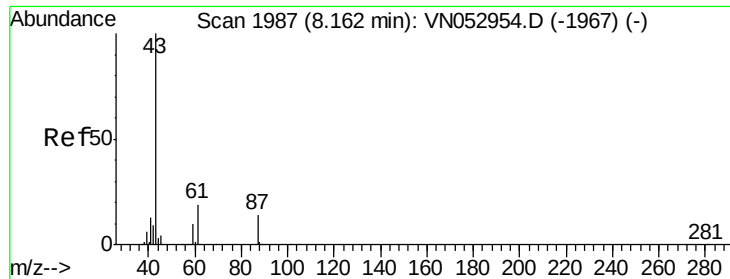
MMDadoda
12/21/2018 11:32:03 AM



#42
1,2-Dichloroethane
Concen: 50.195 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion	62	Resp	727350
Ion Ratio	Lower	Upper	
62	100		
98	9.9	0.0	19.0





#43

Isopropyl Acetate

Concen: 52.123 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Instrument :

MSVOA_N

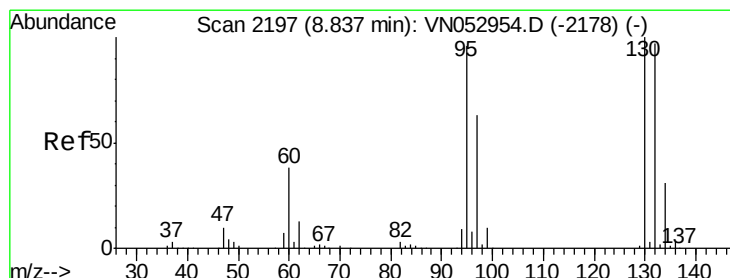
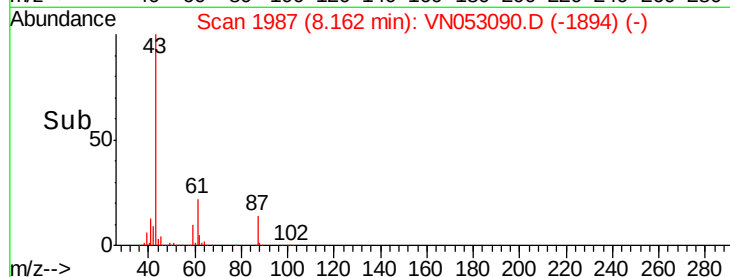
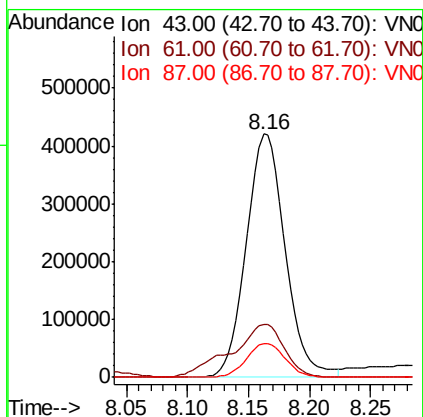
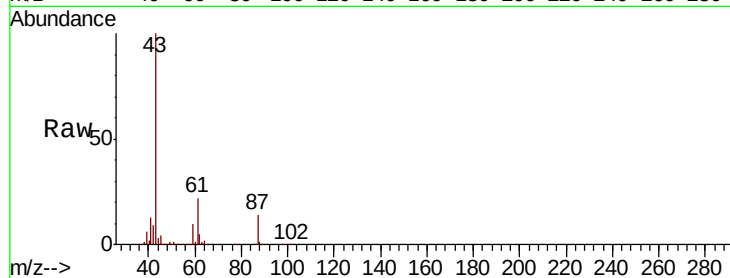
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	927775
Ion	Ratio	Lower	Upper
43	100		
61	29.3	22.9	34.3
87	13.8	10.6	15.8

Manual Integrations
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MMDadoda
12/21/2018 11:32:03 AM



#44

Trichloroethene

Concen: 47.066 ug/l

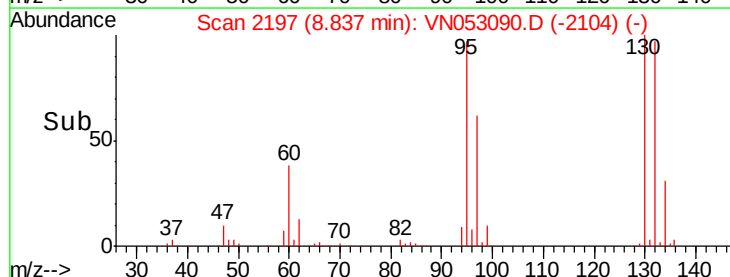
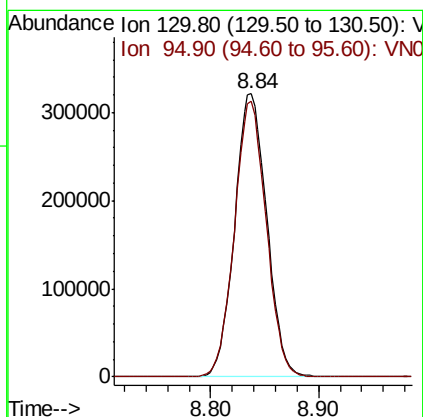
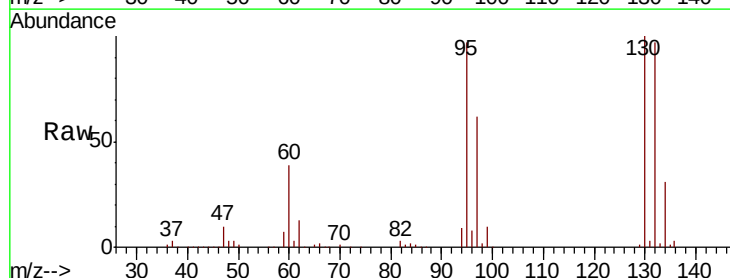
RT: 8.84 min Scan# 2197

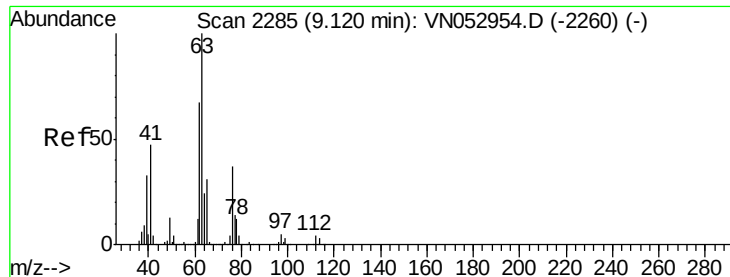
Delta R.T. -0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Tgt Ion:	130	Resp:	667744
Ion	Ratio	Lower	Upper
130	100		
95	97.2	0.0	197.8





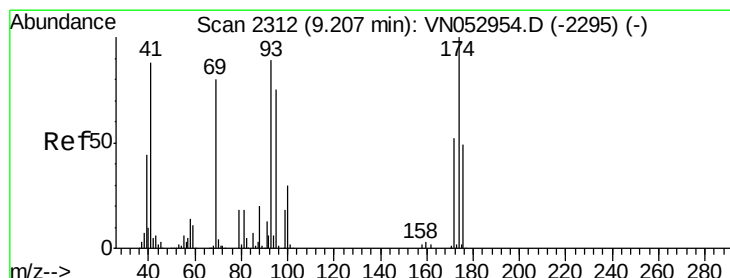
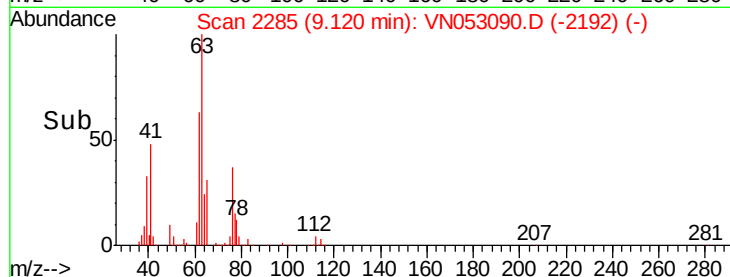
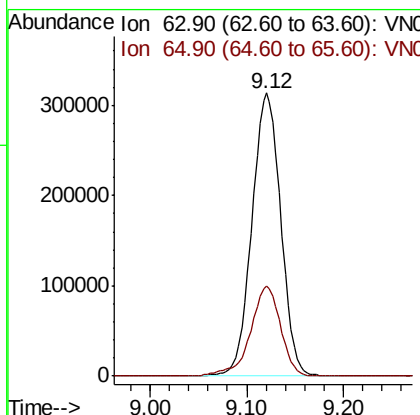
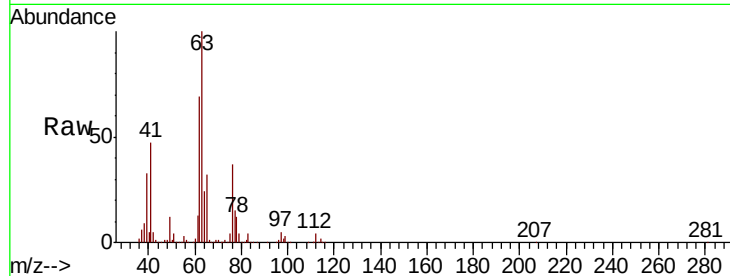
#45
 1,2-Dichloropropane
 Concen: 50.794 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.8	24.6	37.0

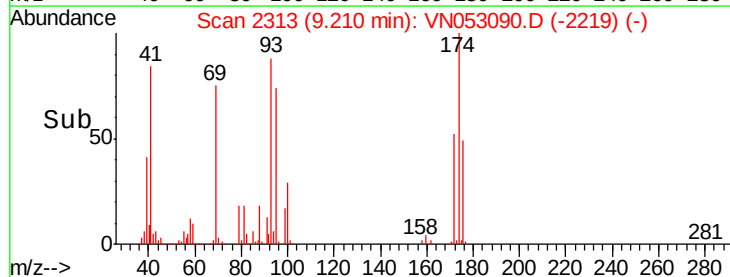
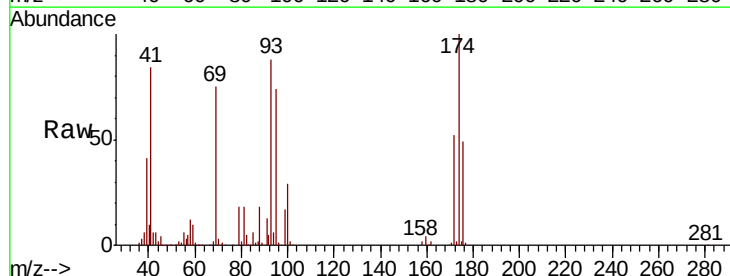
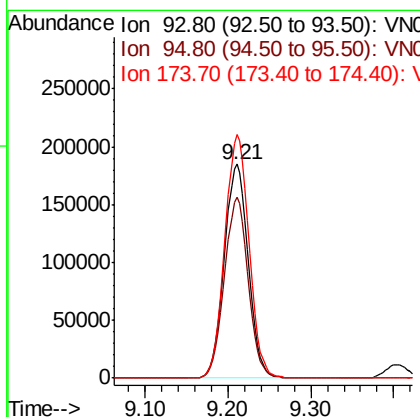
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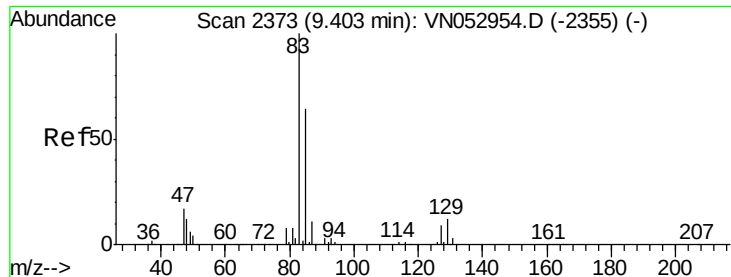
MMDadoda
 12/21/2018 11:32:03 AM



#46
 Dibromomethane
 Concen: 49.986 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.9	67.8	101.6
174	114.8	89.0	133.4





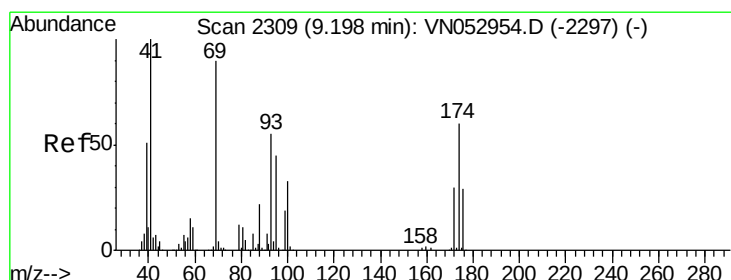
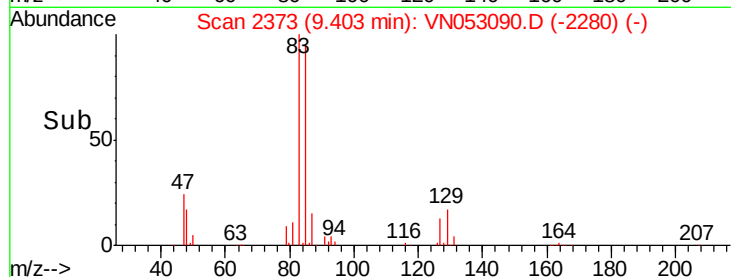
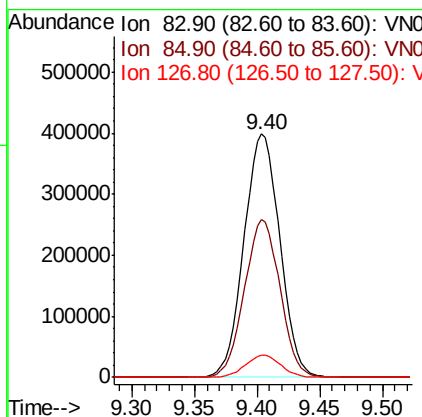
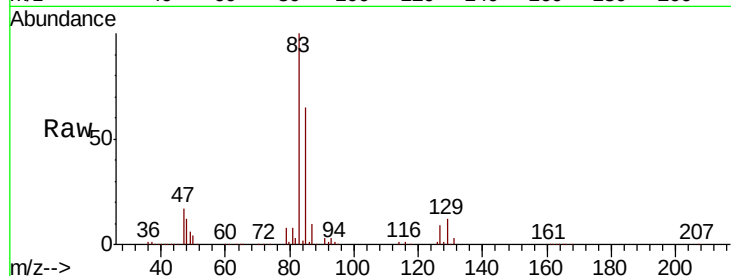
#47
Bromodichloromethane
Concen: 50.176 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.6	77.4
127	9.0	7.1	10.7

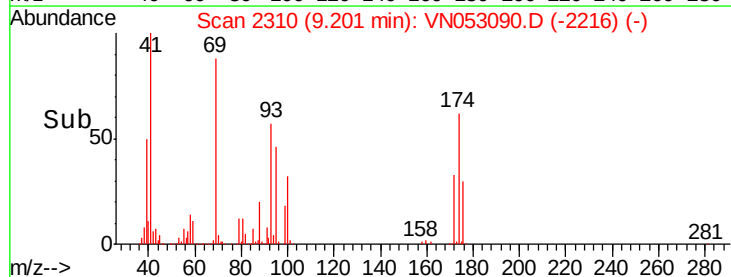
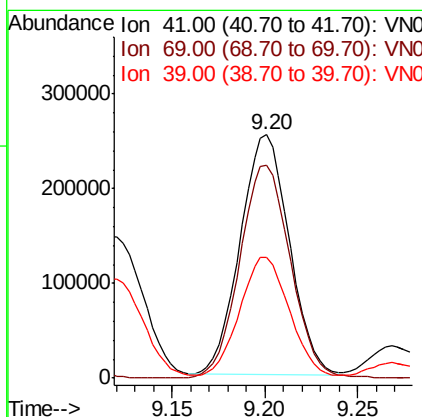
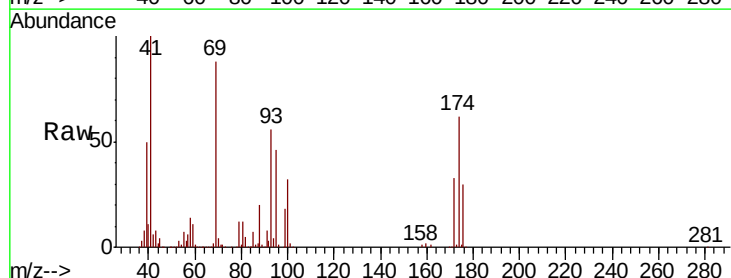
Manual Integrations
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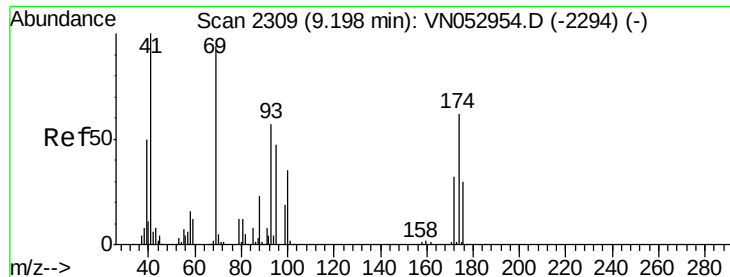
MMDadoda
12/21/2018 11:32:03 AM



#48
Methyl methacrylate
Concen: 52.084 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
41	100		
69	92.2	72.2	108.2
39	51.7	41.9	62.9





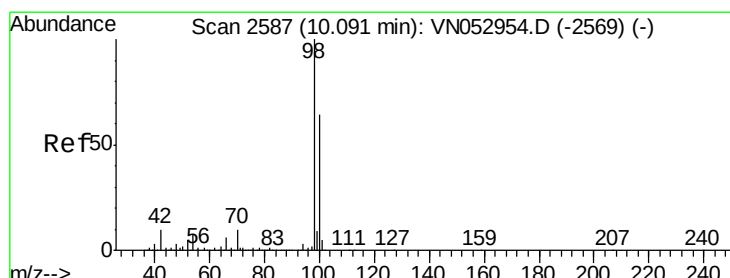
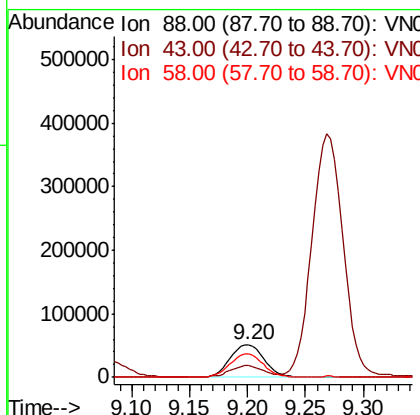
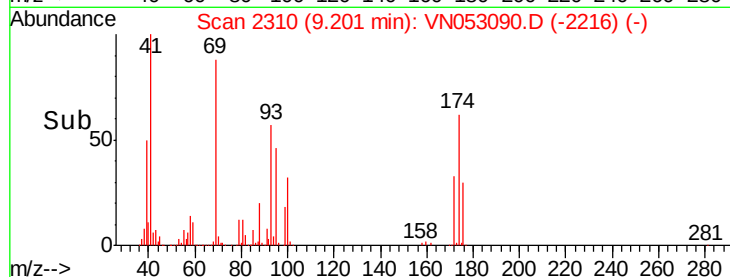
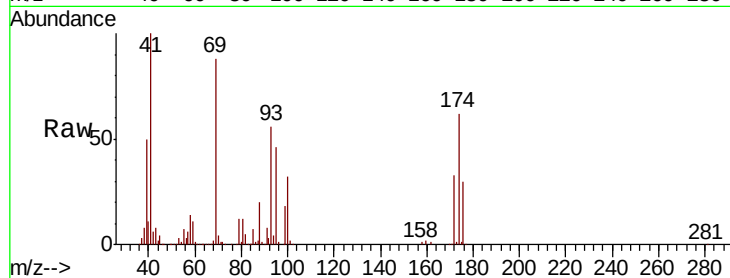
#49
1,4-Dioxane
Concen: 943.276 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	88	Resp	106590
Ion	Ratio	Lower	Upper
88	100		
43	32.8	26.6	40.0
58	69.2	58.4	87.6

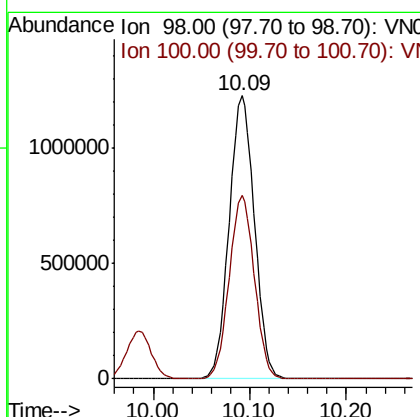
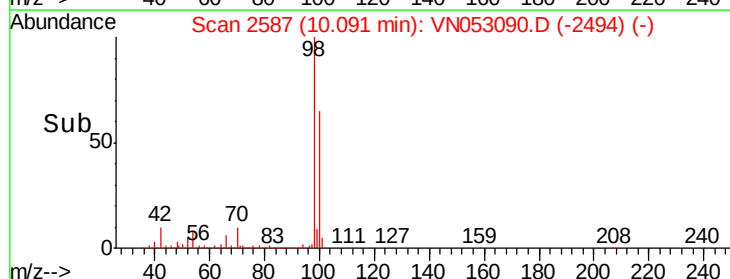
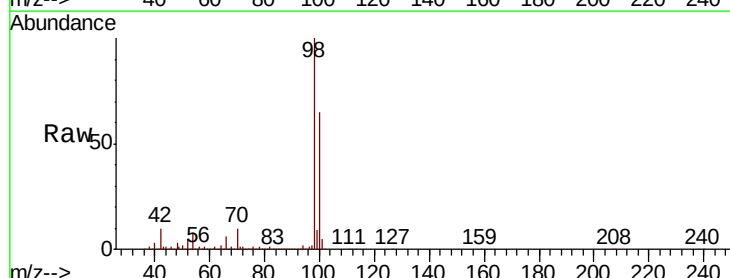
Manual Integrations
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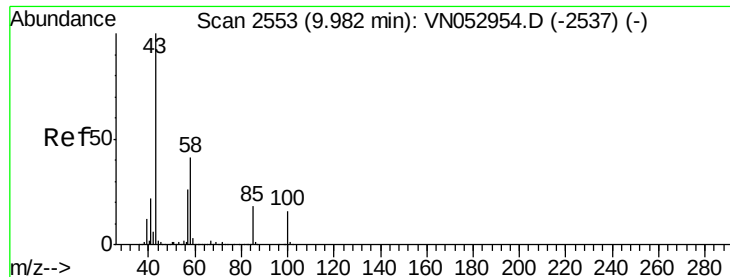
MMDadoda
12/21/2018 11:32:03 AM



#50
Toluene-d8
Concen: 943.276 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion	98	Resp	2225517
Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.6	77.4





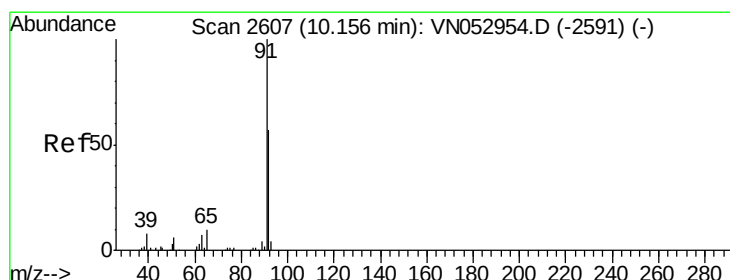
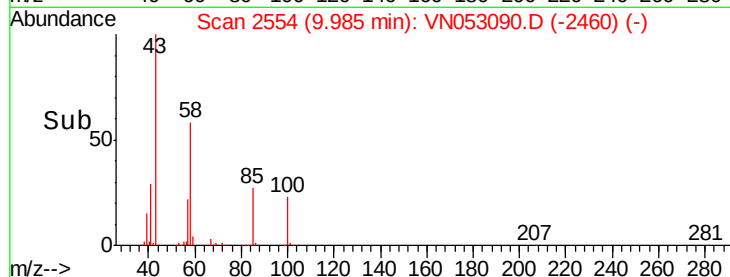
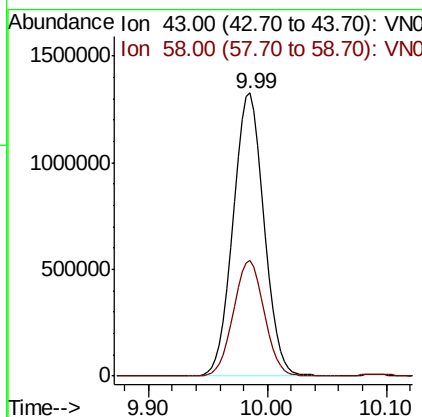
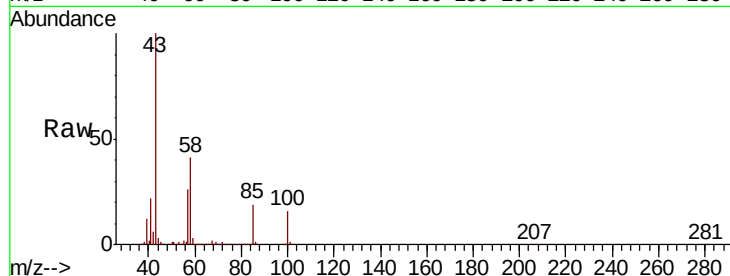
#51
4-Methyl-2-Pentanone
Concen: 267.767 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 2387181
Ion Ratio Lower Upper
43 100
58 40.9 32.2 48.4

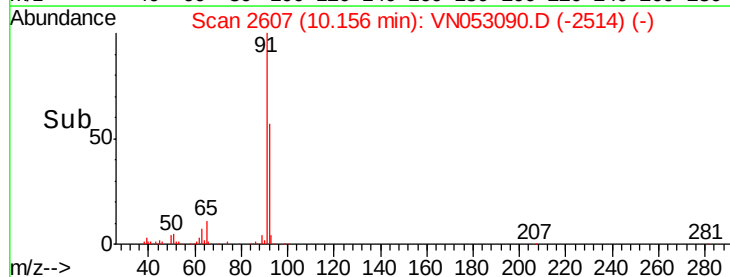
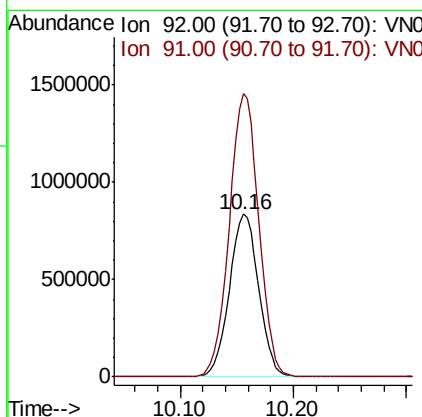
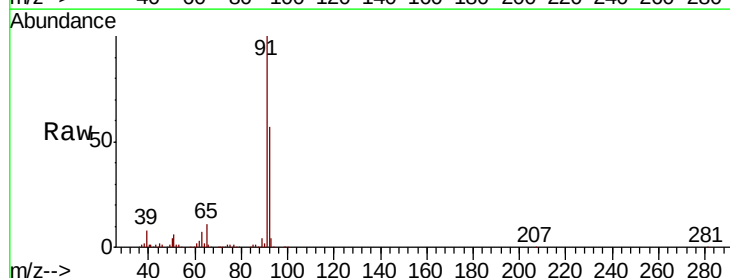
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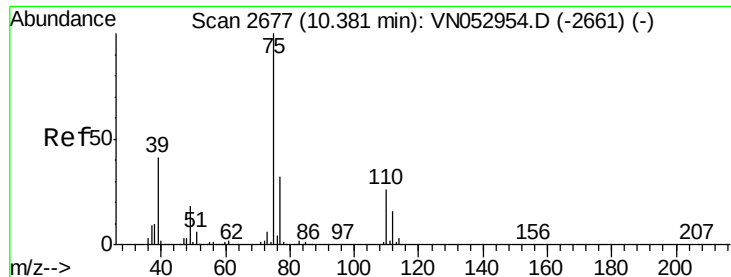
MMDadoda
12/21/2018 11:32:03 AM



#52
Toluene
Concen: 49.400 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion: 92 Resp: 1501921
Ion Ratio Lower Upper
92 100
91 175.2 139.8 209.6





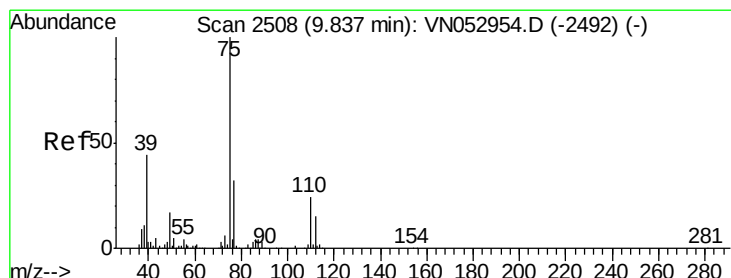
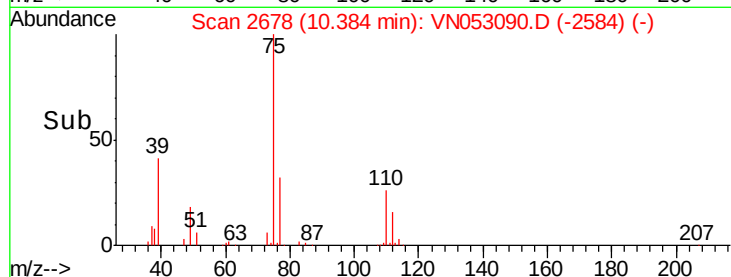
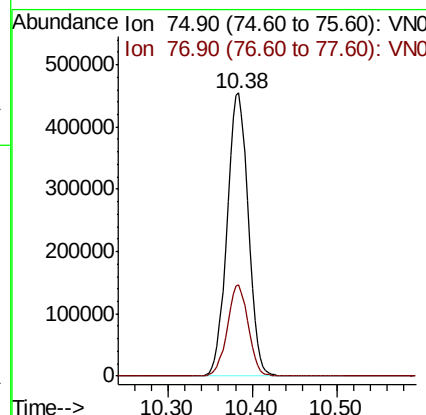
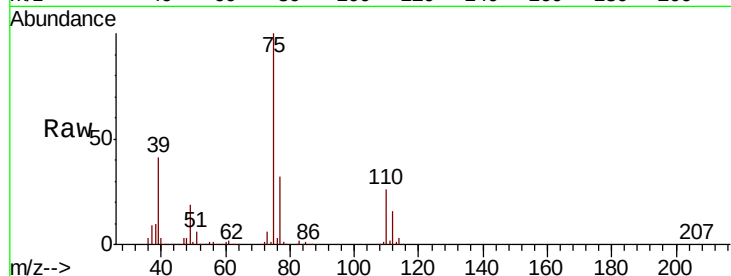
#53
t-1,3-Dichloropropene
Concen: 47.610 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.6	38.4

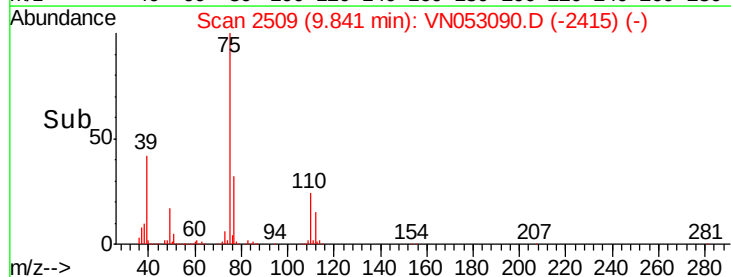
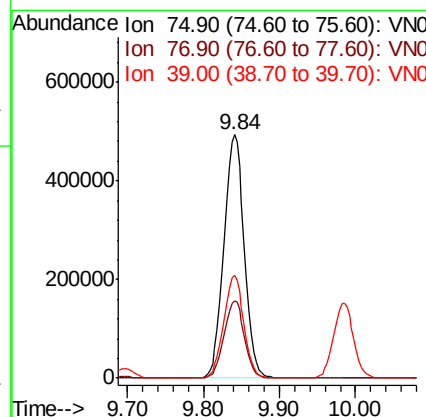
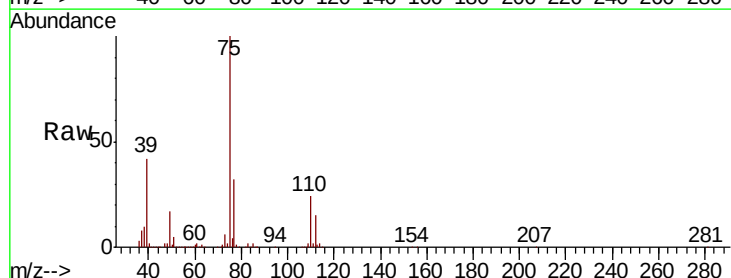
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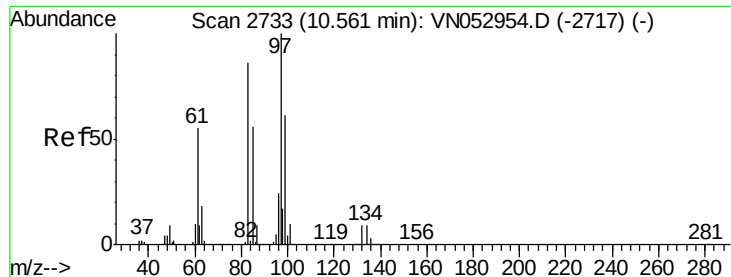
MMDadoda
12/21/2018 11:32:03 AM



#54
cis-1,3-Dichloropropene
Concen: 48.091 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.8	38.8
39	42.1	34.8	52.2





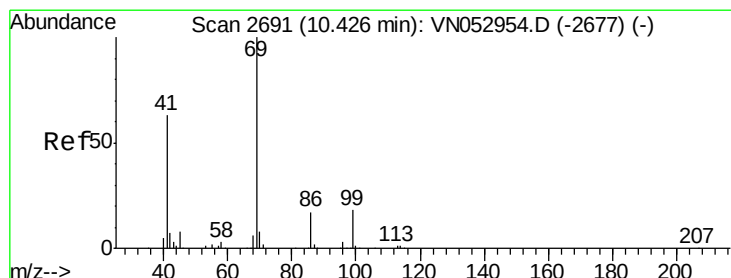
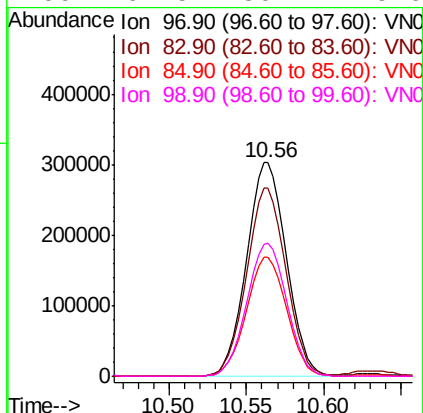
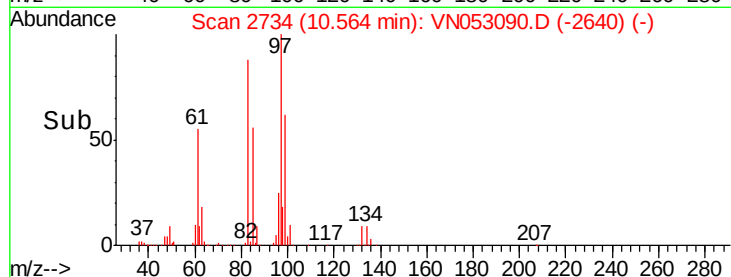
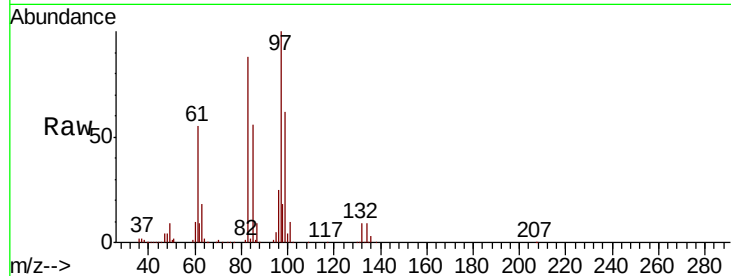
#55
 1,1,2-Trichloroethane
 Concen: 51.185 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:	97	Resp:	542901
Ion	Ratio	Lower	Upper
97	100		
83	88.0	70.9	106.3
85	55.9	45.4	68.2
99	62.5	50.4	75.6

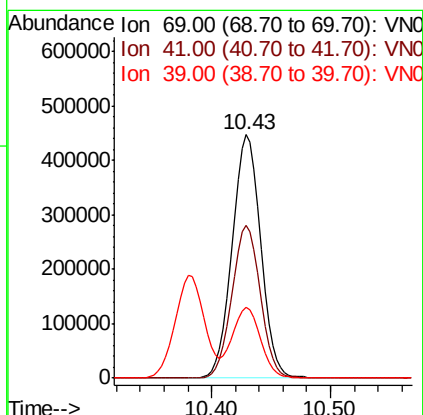
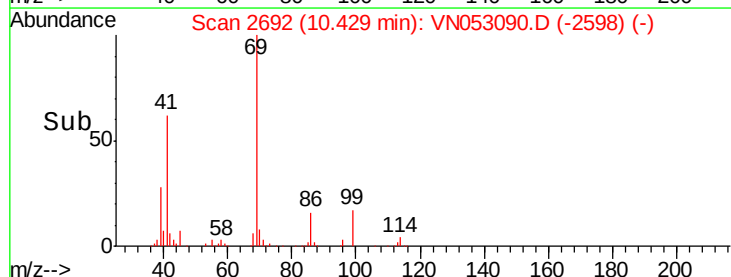
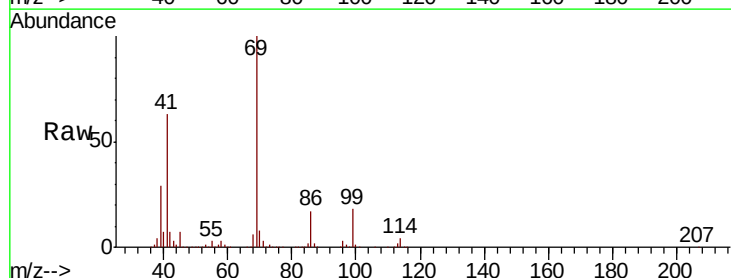
Manual Integrations
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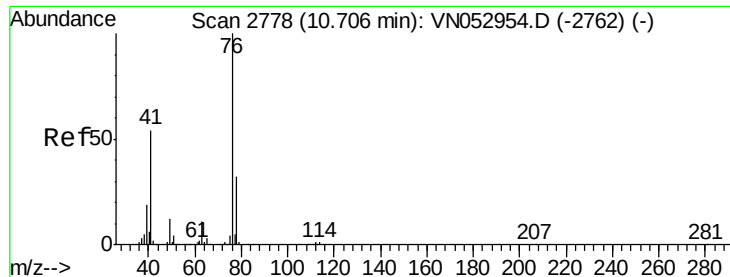
MMDadoda
 12/21/2018 11:32:03 AM



#56
 Ethyl methacrylate
 Concen: 53.052 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Tgt Ion:	69	Resp:	744801
Ion	Ratio	Lower	Upper
69	100		
41	61.9	51.7	77.5
39	29.0	24.6	37.0





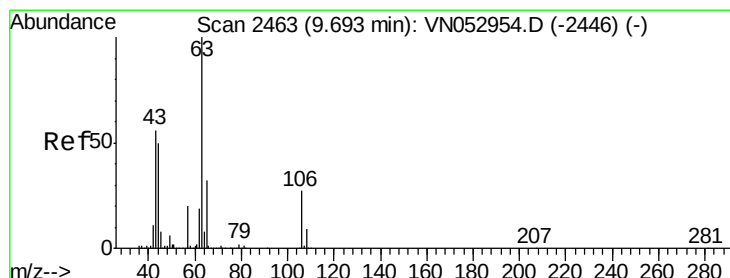
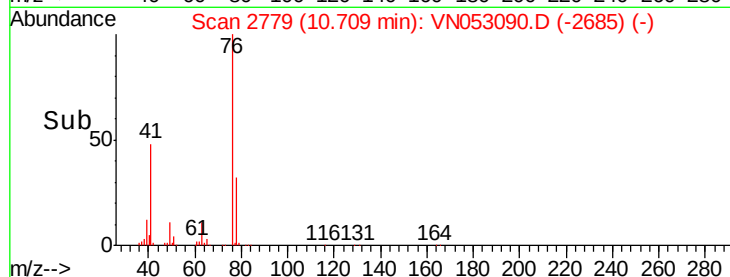
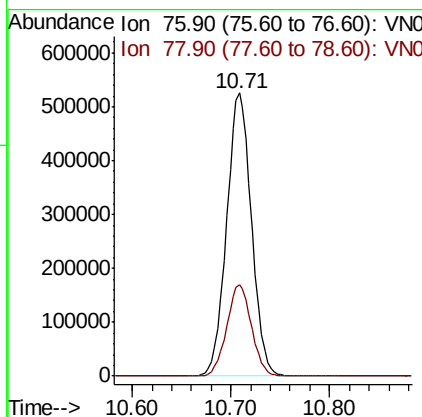
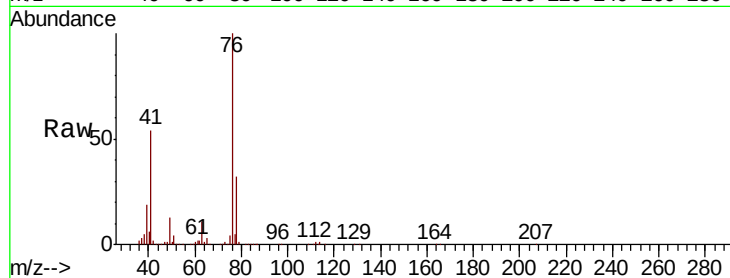
#57
 1,3-Dichloropropane
 Concen: 50.847 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.8	38.8

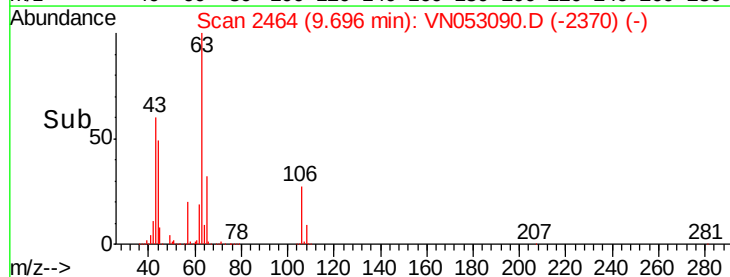
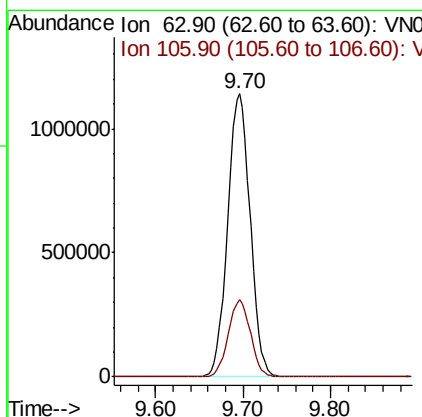
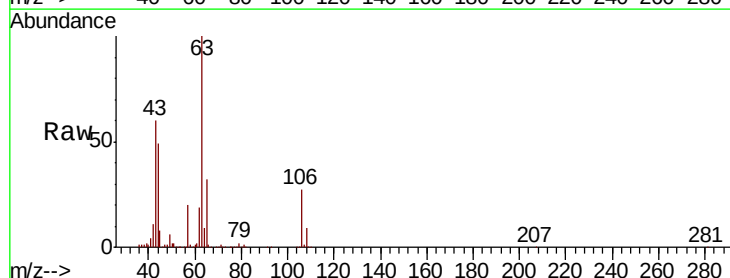
Manual Integrations
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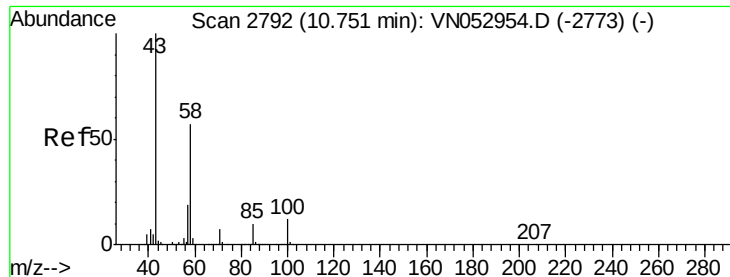
MMDadoda
 12/21/2018 11:32:03 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 264.011 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.0	21.0	31.6





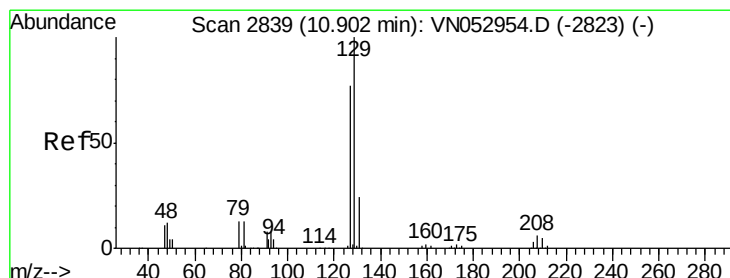
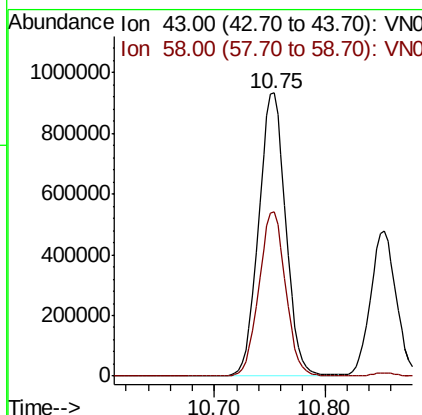
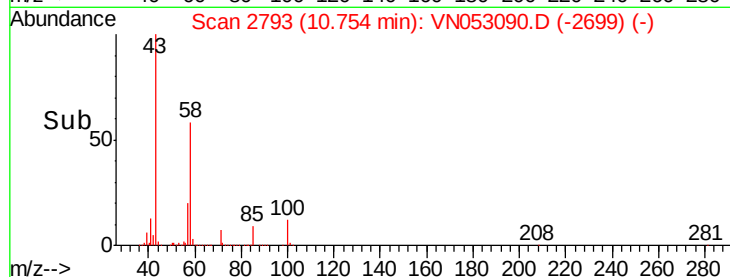
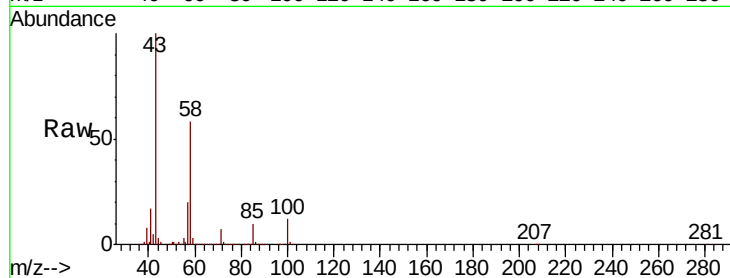
#59
2-Hexanone
Concen: 263.584 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 1589898
Ion Ratio Lower Upper
43 100
58 57.5 28.1 84.3

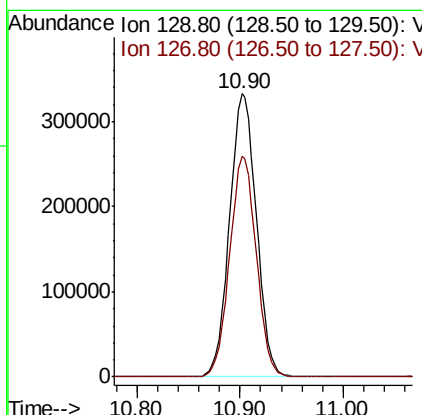
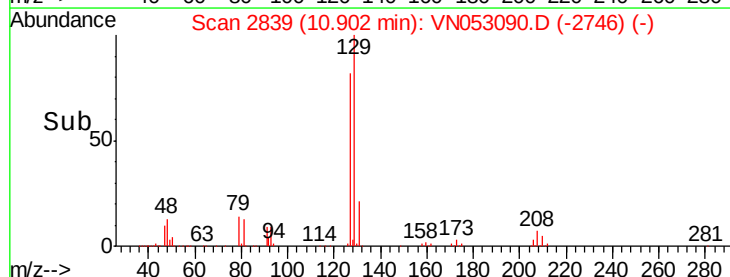
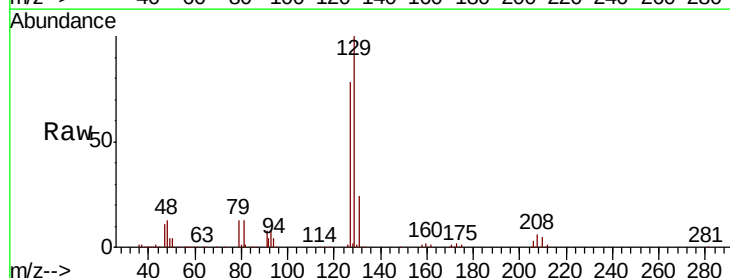
Manual Integrations
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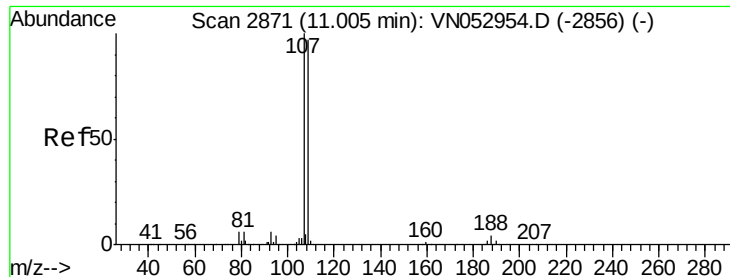
MMDadoda
12/21/2018 11:32:03 AM



#60
Dibromochloromethane
Concen: 49.675 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion: 129 Resp: 603121
Ion Ratio Lower Upper
129 100
127 77.4 38.6 116.0





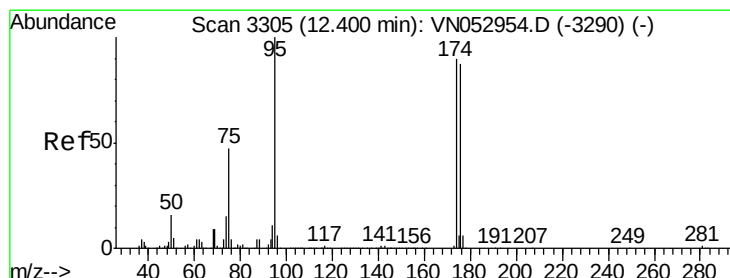
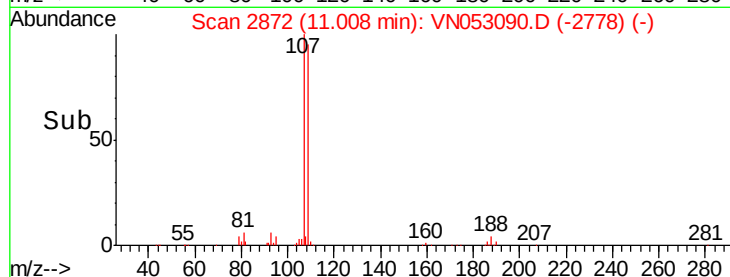
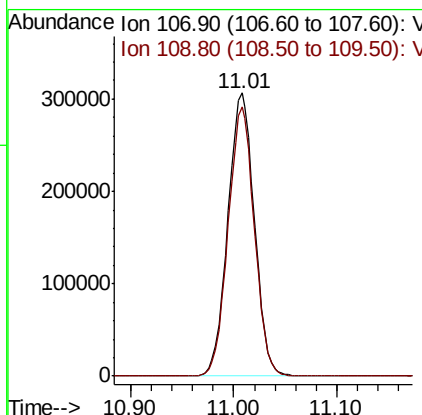
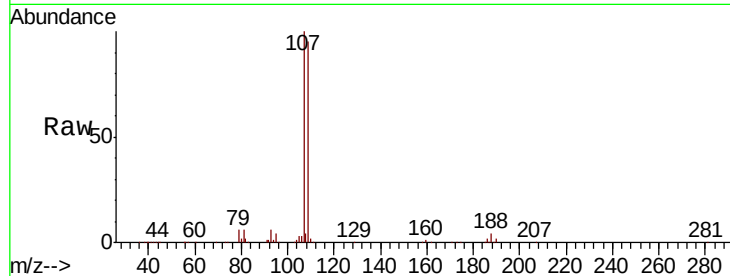
#61
 1,2-Dibromoethane
 Concen: 50.821 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.4	113.0

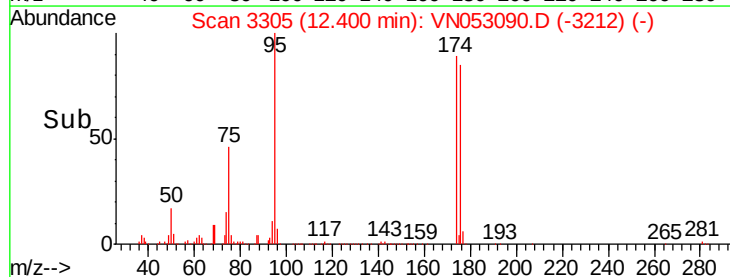
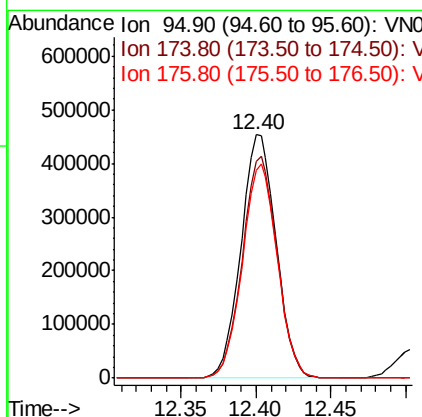
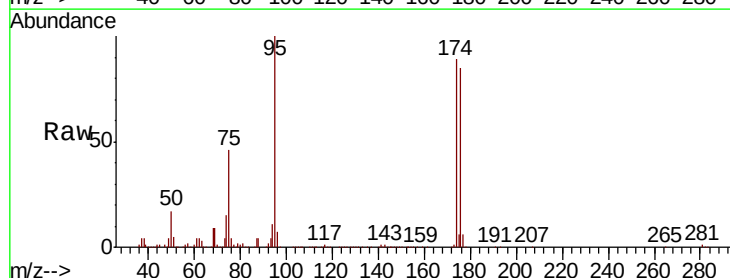
Manual Integrations
 APPROVED

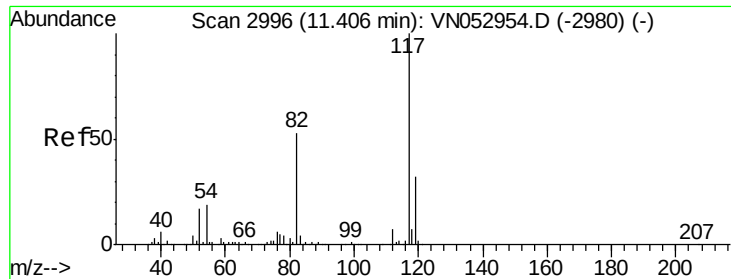
MMDadoda
 12/21/2018 11:32:03 AM



#62
 4-Bromofluorobenzene
 Concen: 50.821 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.3	0.0	178.8
176	87.2	0.0	173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:117 Resp: 1508205

Ion Ratio Lower Upper

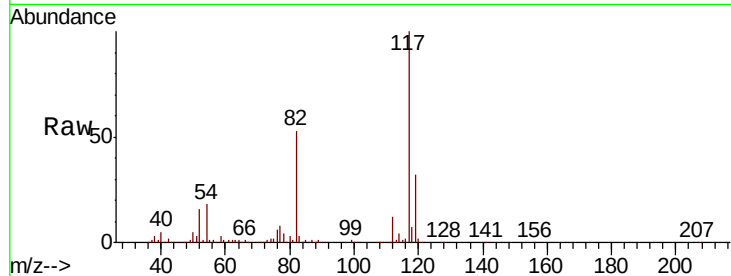
117 100

82 52.6 42.8 64.2

119 31.8 25.5 38.3

Manual Integrations
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MMDadoda
12/21/2018 11:32:03 AM

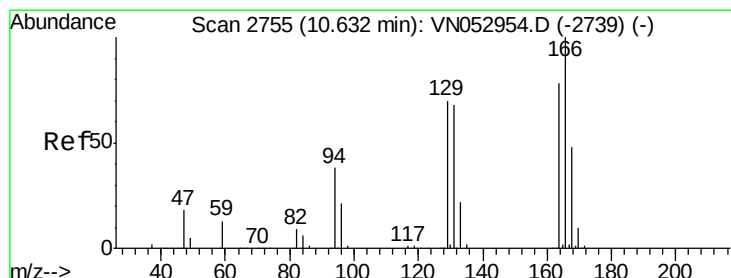
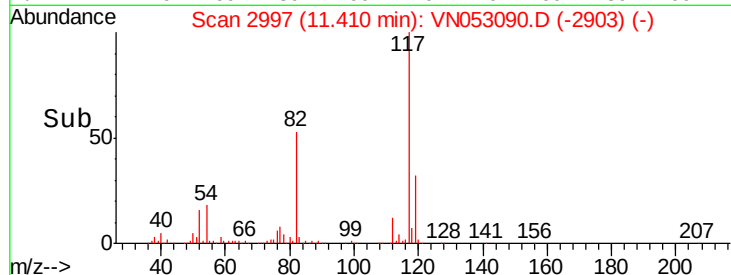
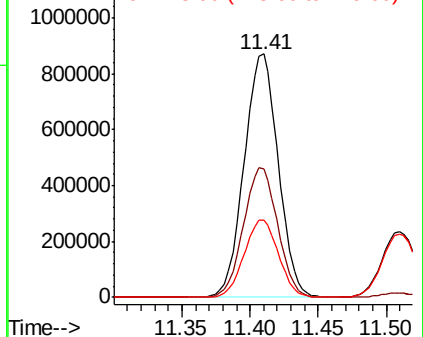


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 43.648 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Tgt Ion:164 Resp: 713091

Ion Ratio Lower Upper

164 100

166 127.4 102.9 154.3

129 90.1 73.7 110.5

131 88.7 70.7 106.1

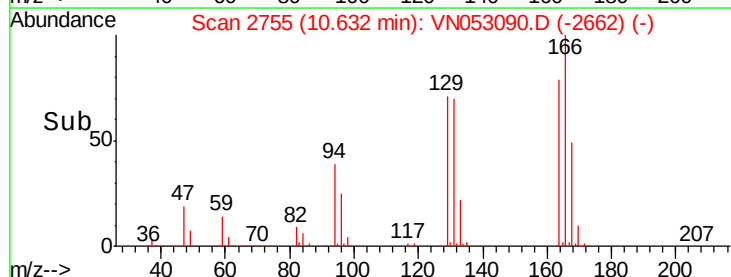
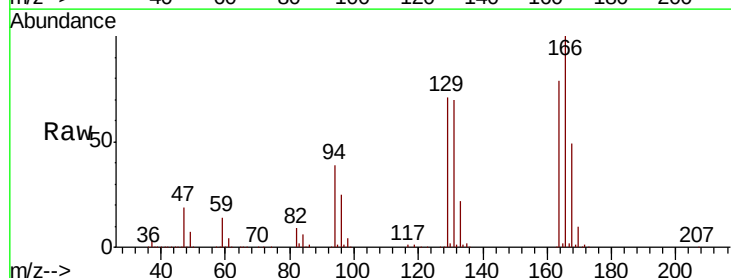
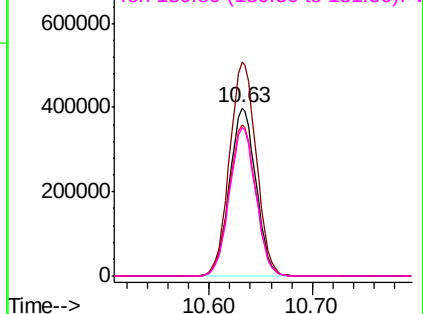
Abundance

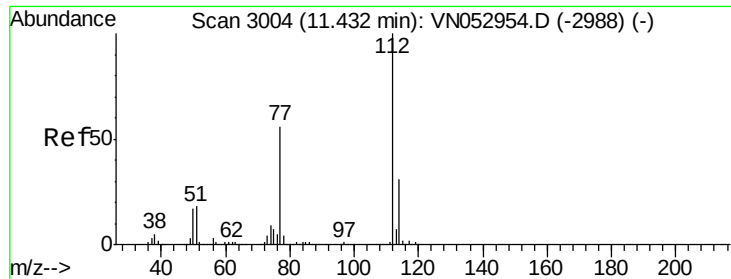
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





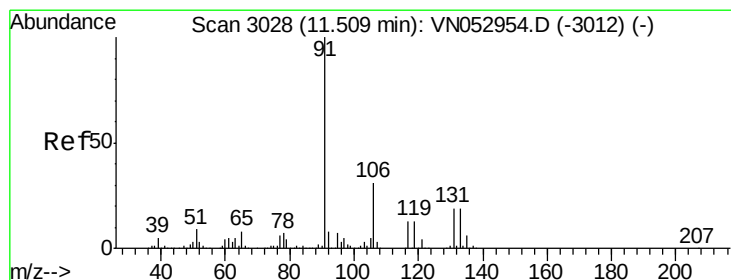
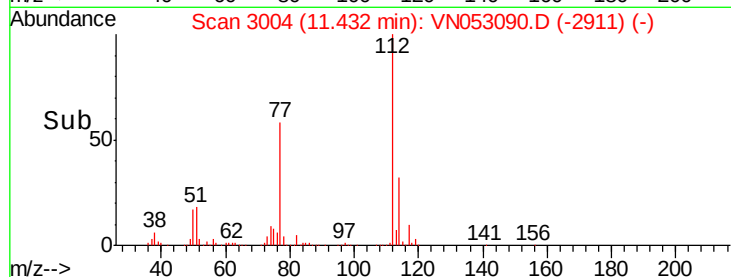
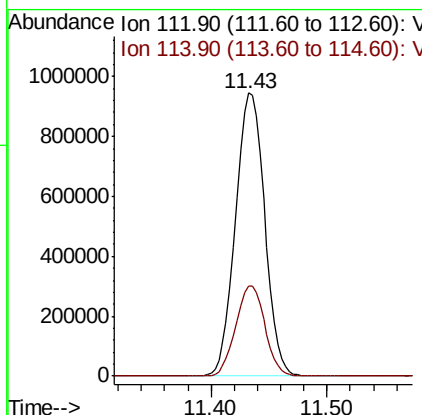
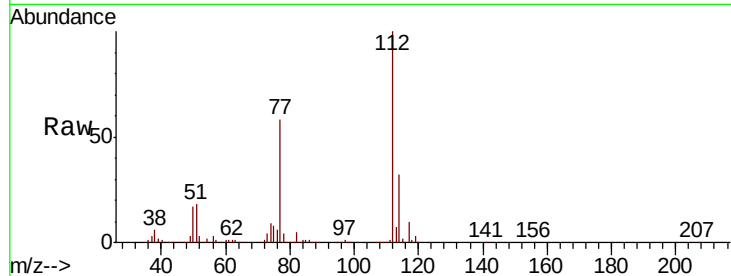
#65
Chlorobenzene
Concen: 49.334 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 1649357
Ion Ratio Lower Upper
112 100
114 32.0 25.5 38.3

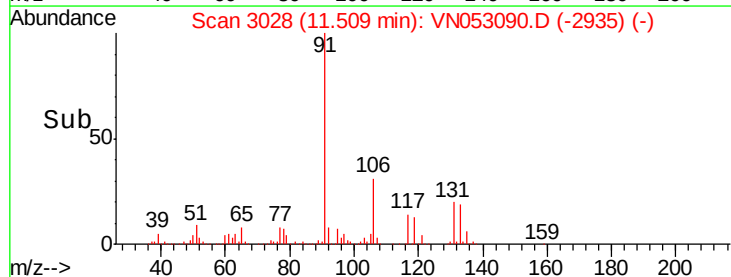
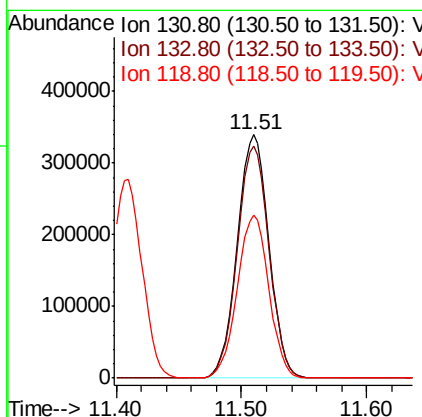
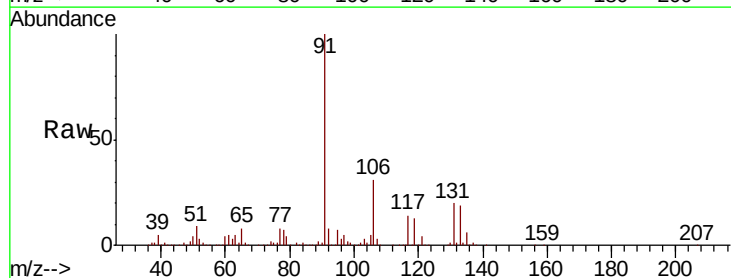
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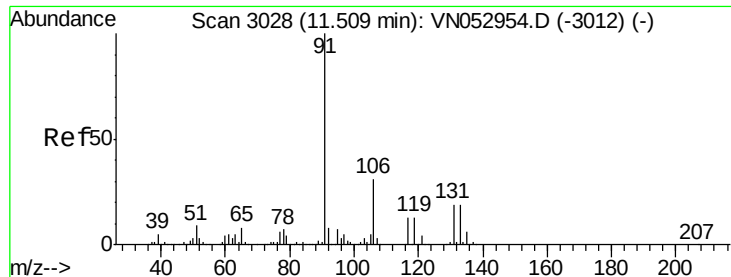
MMDadoda
12/21/2018 11:32:03 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 51.148 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion:131 Resp: 594648
Ion Ratio Lower Upper
131 100
133 95.8 47.6 142.9
119 66.8 33.3 99.8





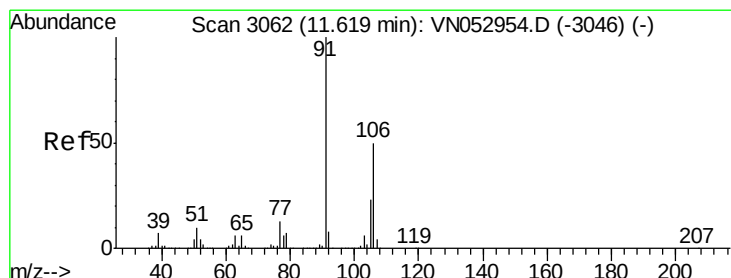
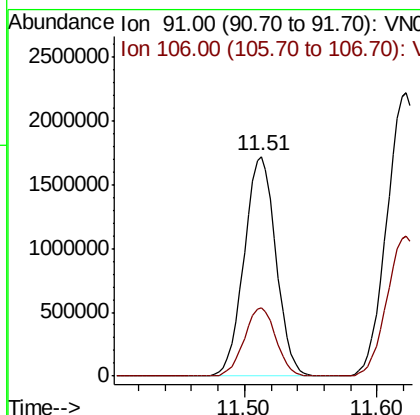
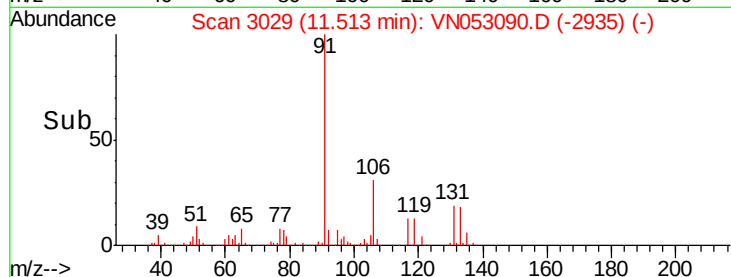
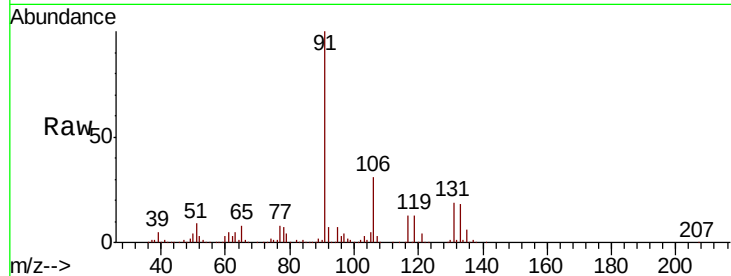
#67
Ethyl Benzene
Concen: 49.643 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 2854255
Ion Ratio Lower Upper
91 100
106 31.2 24.9 37.3

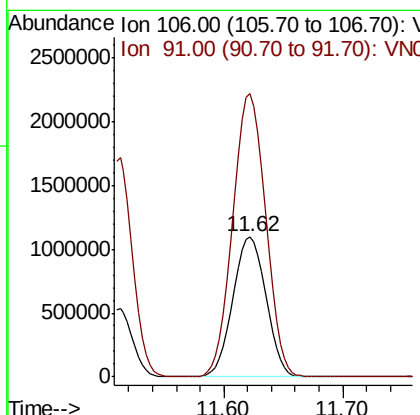
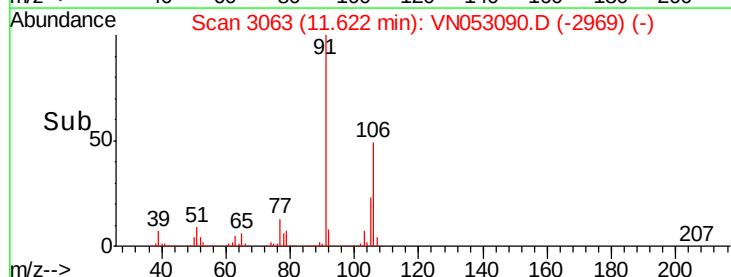
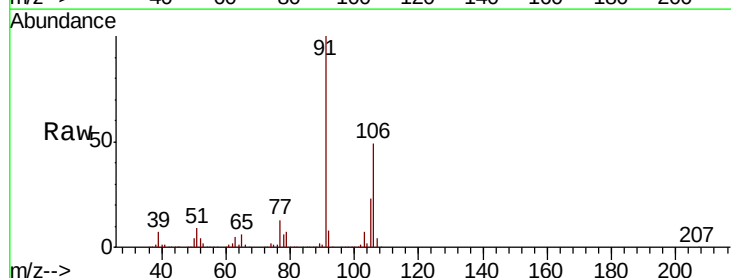
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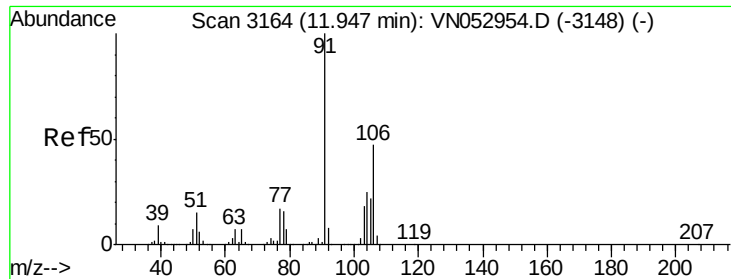
MMDadoda
12/21/2018 11:32:03 AM



#68
m/p-Xylenes
Concen: 96.996 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion: 106 Resp: 2120065
Ion Ratio Lower Upper
106 100
91 201.4 162.2 243.4





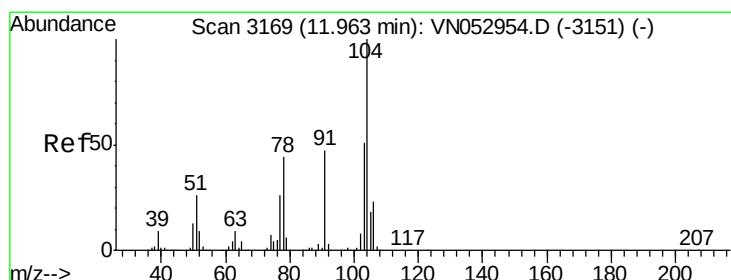
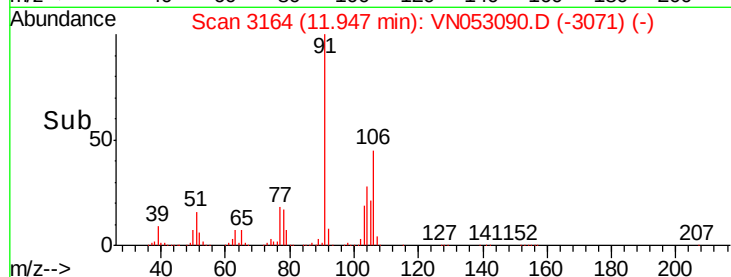
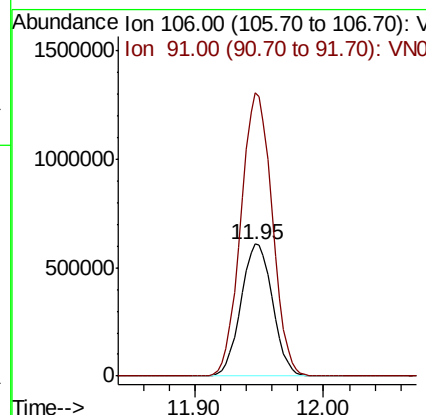
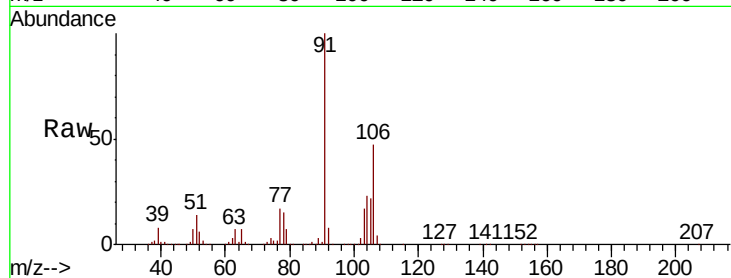
#69
o-Xylene
Concen: 49.356 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 1035191
Ion Ratio Lower Upper
106 100
91 213.3 106.6 319.8

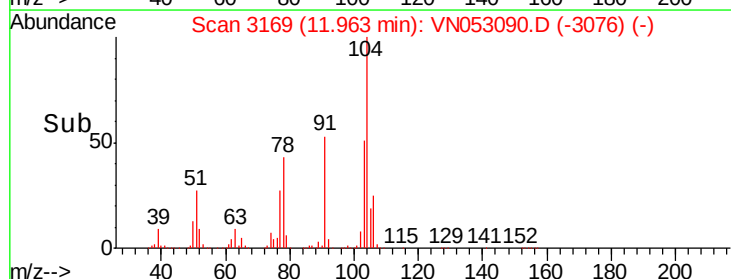
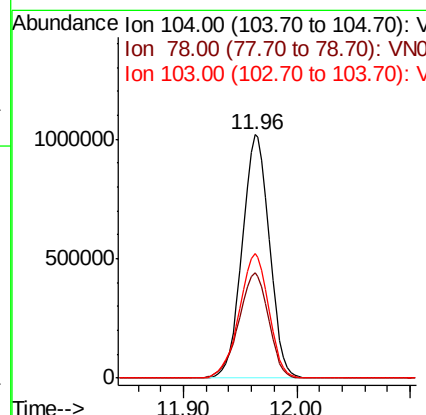
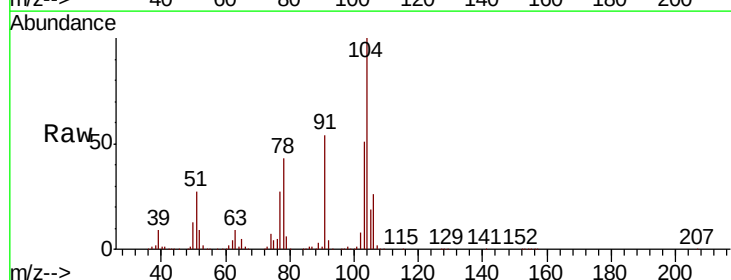
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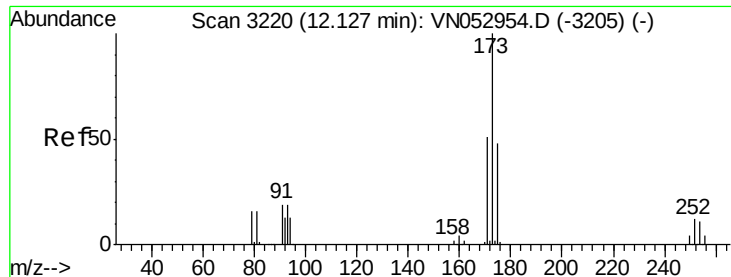
MMDadoda
12/21/2018 11:32:03 AM



#70
Styrene
Concen: 49.910 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion:104 Resp: 1706916
Ion Ratio Lower Upper
104 100
78 47.5 38.9 58.3
103 55.4 44.3 66.5





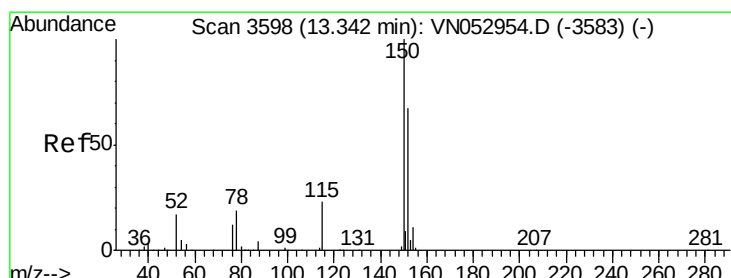
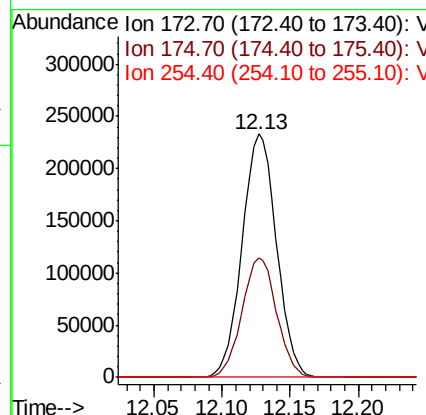
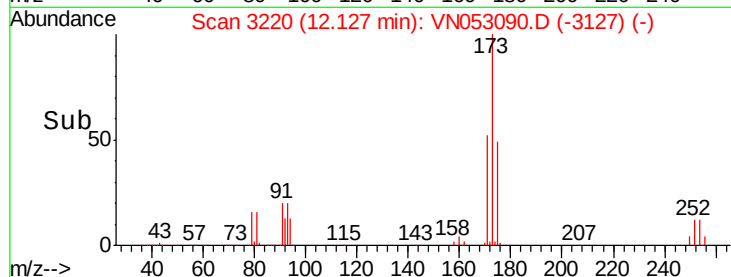
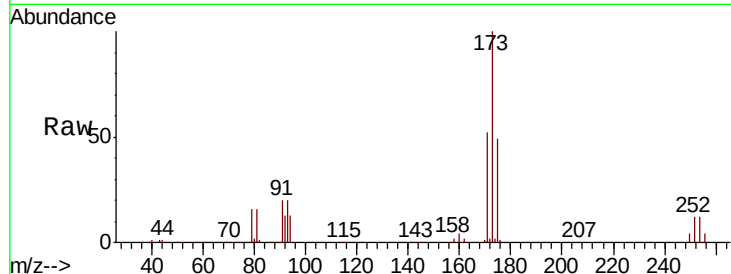
#71
Bromoform
Concen: 48.539 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	24.3	72.9
254	0.1	0.1	0.1

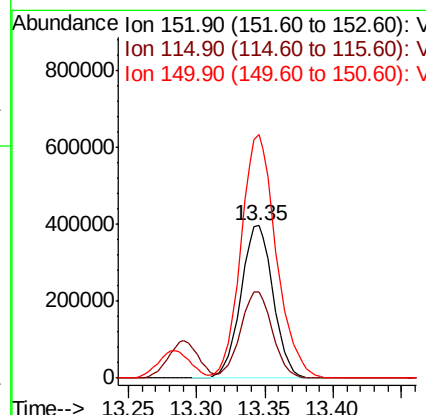
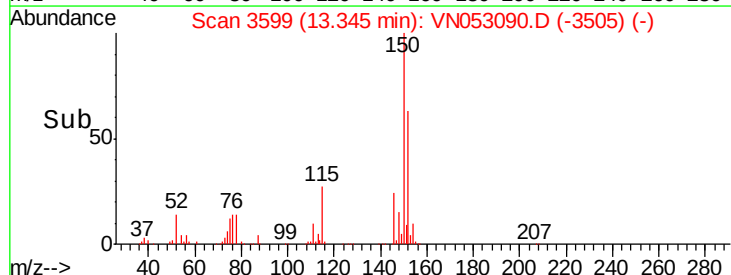
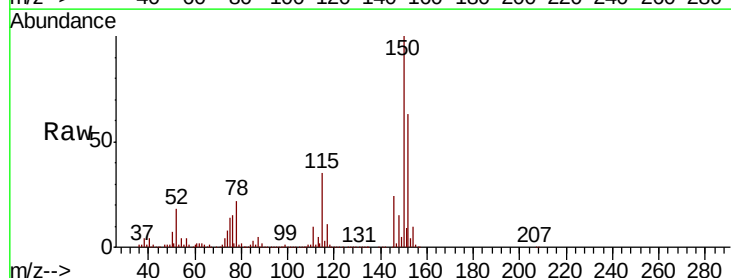
Manual Integrations
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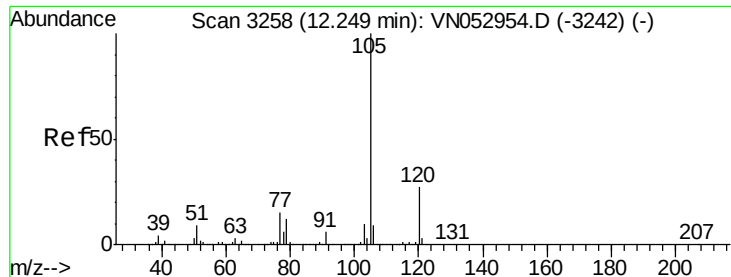
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.2	28.3	85.0
150	174.5	0.0	347.8





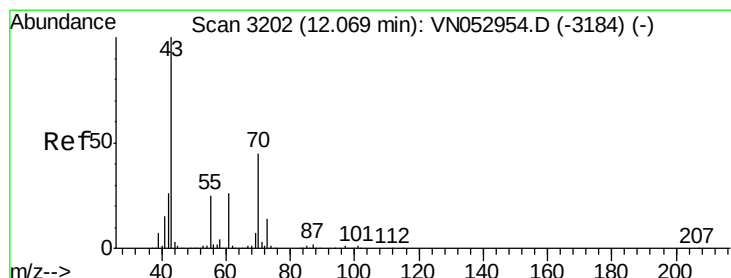
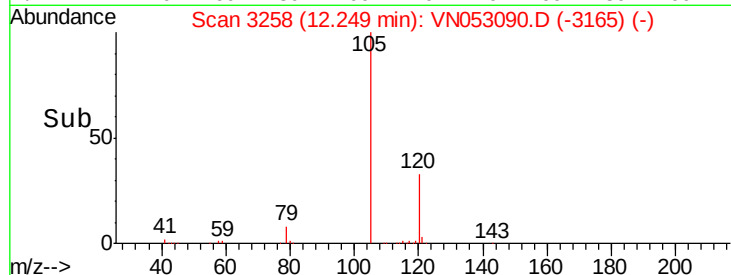
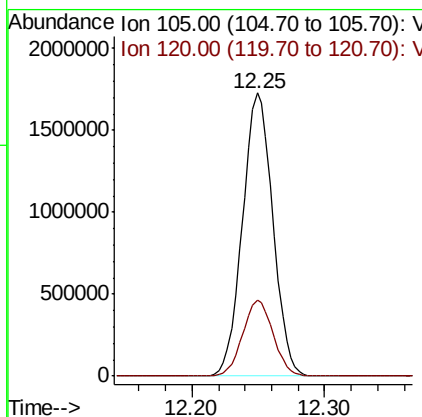
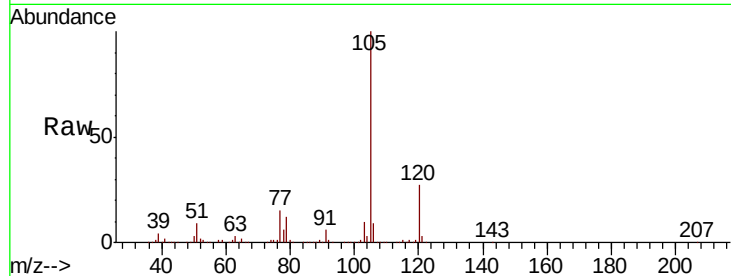
#73
Isopropylbenzene
Concen: 54.101 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:105 Resp: 2743478
Ion Ratio Lower Upper
105 100
120 27.0 13.3 39.9

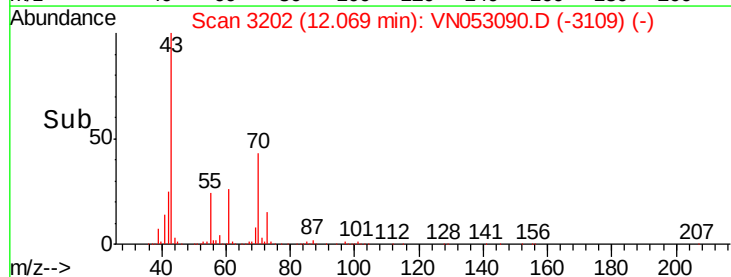
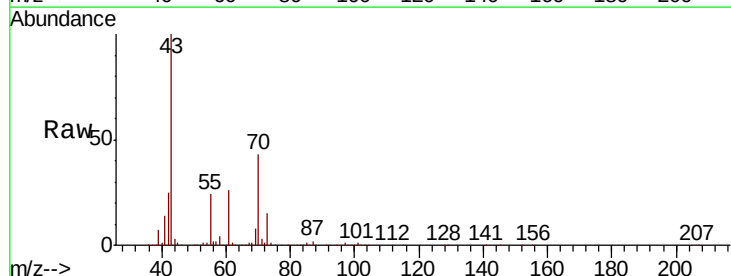
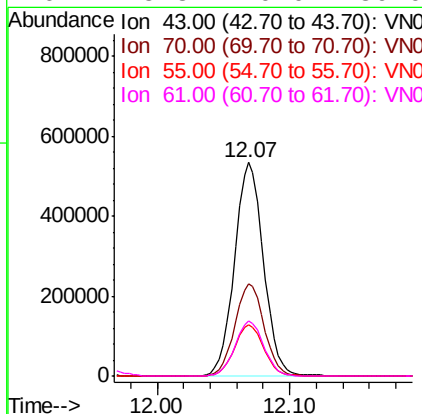
Manual Integrations
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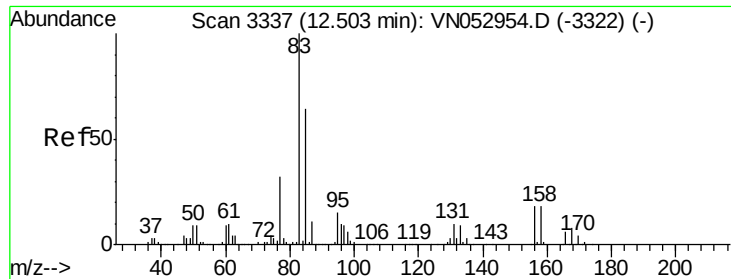
MMDadoda
12/21/2018 11:32:03 AM



#74
N-ethyl acetate
Concen: 57.151 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion: 43 Resp: 804632
Ion Ratio Lower Upper
43 100
70 43.9 34.2 51.4
55 24.5 20.3 30.5
61 25.8 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 60.138 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Instrument :

MSVOA_N

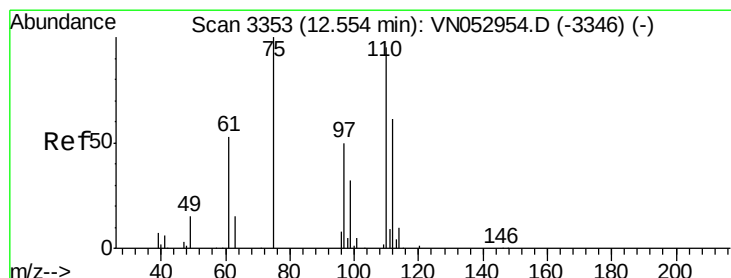
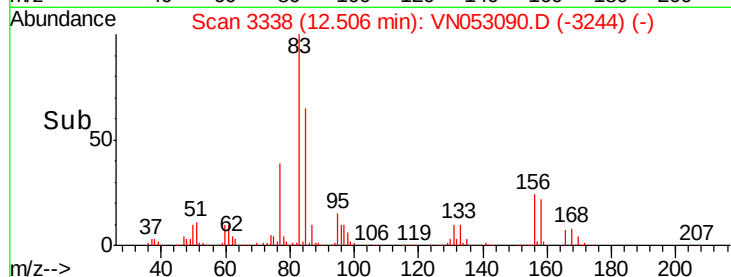
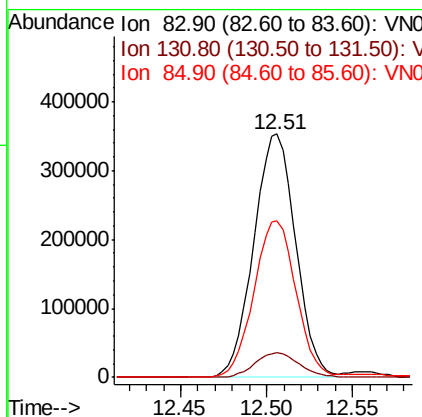
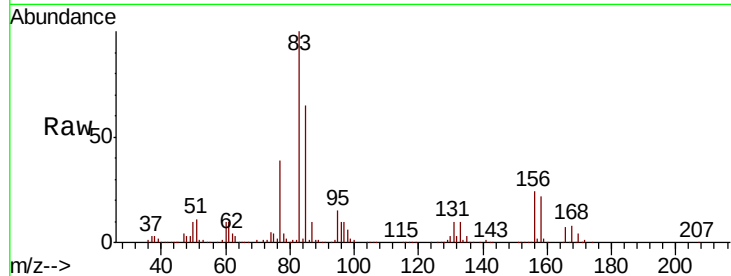
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	598280
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.2	15.6
85	64.4	32.4	97.0

Manual Integrations
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12/21/2018 11:32:03 AM



#76

1,2,3-Trichloropropane

Concen: 47.943 ug/l m

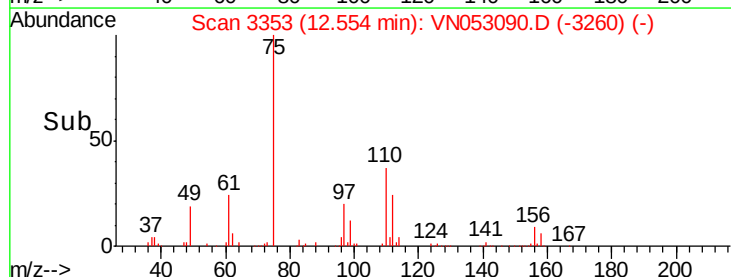
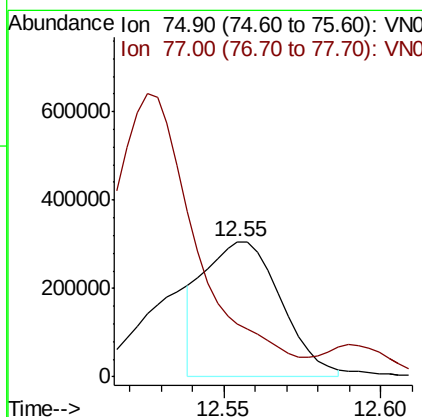
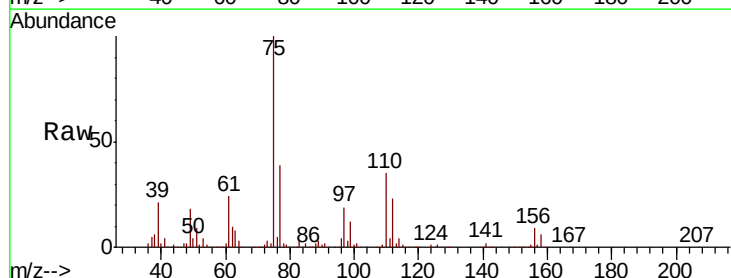
RT: 12.55 min Scan# 3353

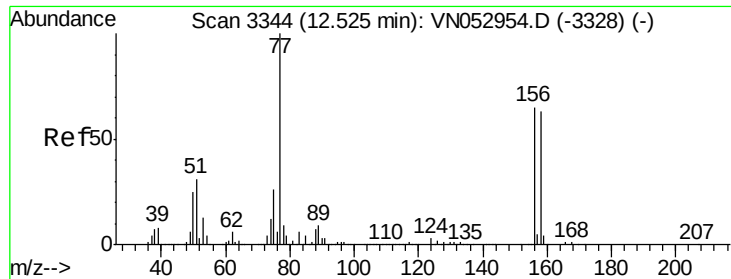
Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Tgt Ion:	75	Resp:	523085
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 55.502 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Instrument :

MSVOA_N

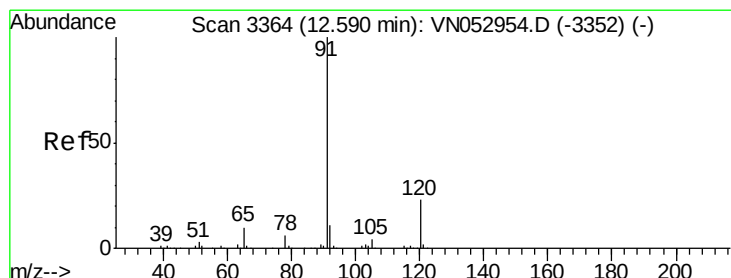
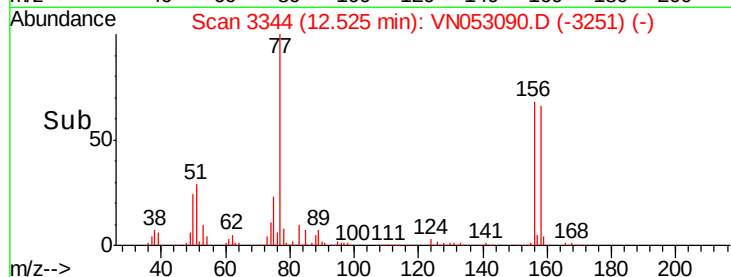
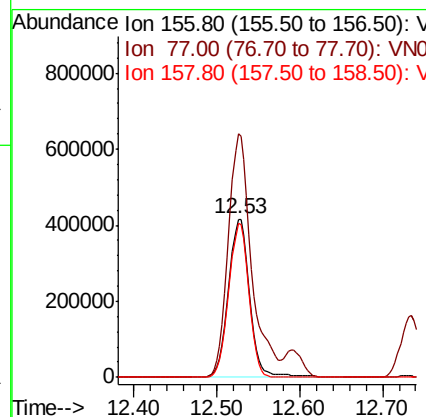
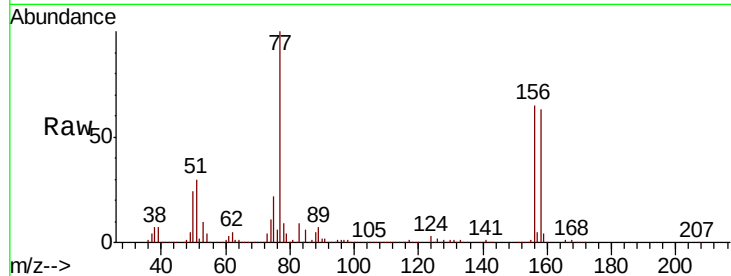
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
156	100		
77	171.2	91.3	273.8
158	92.8	49.0	147.2

Manual Integrations
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#78

n-propylbenzene

Concen: 52.487 ug/l

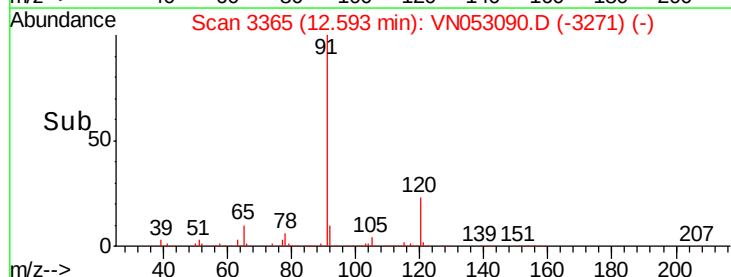
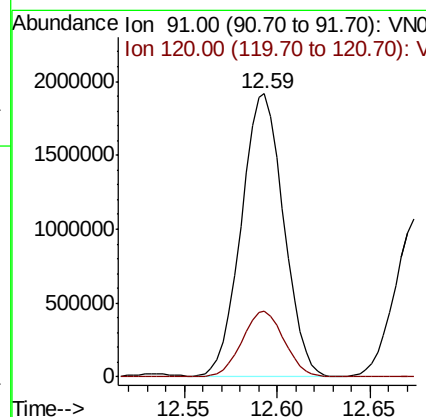
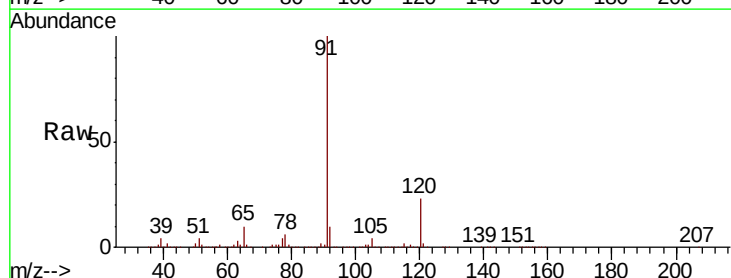
RT: 12.59 min Scan# 3365

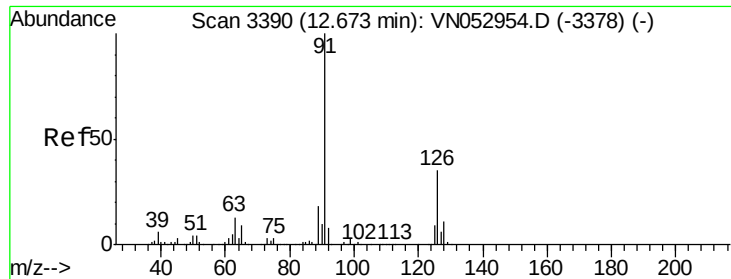
Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.5	34.5





#79

2-Chlorotoluene

Concen: 49.809 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053090.D

Acq: 21 Dec 2018 7:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1783116

Ion Ratio Lower Upper

91 100

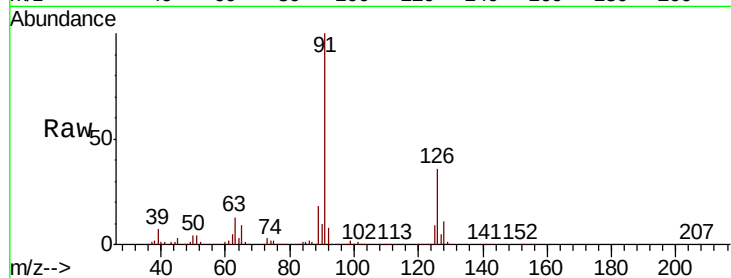
126 35.2 17.4 52.3

Manual Integrations

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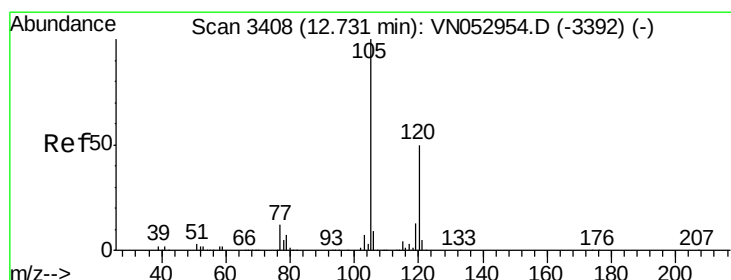
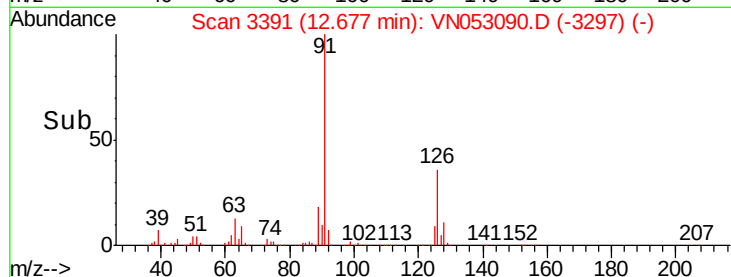
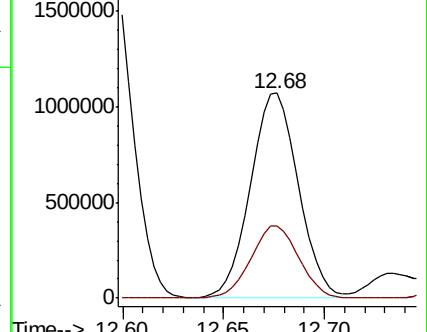
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VN052954.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN052954.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 50.800 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053090.D

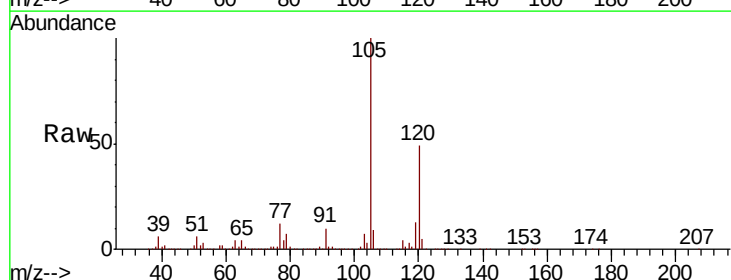
Acq: 21 Dec 2018 7:02

Tgt Ion: 105 Resp: 2099709

Ion Ratio Lower Upper

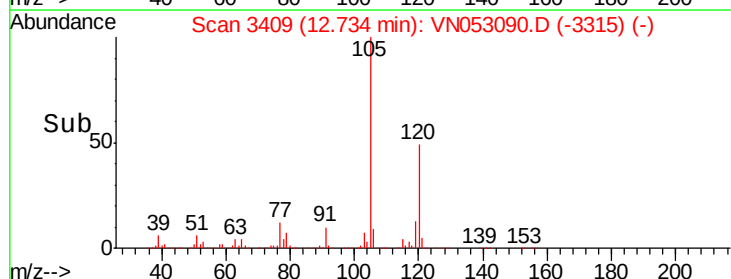
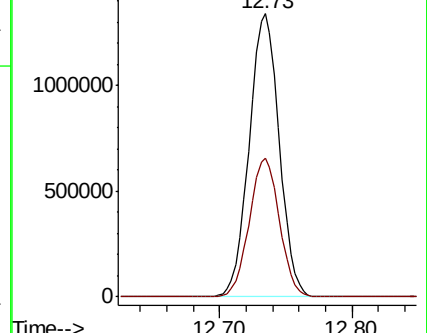
105 100

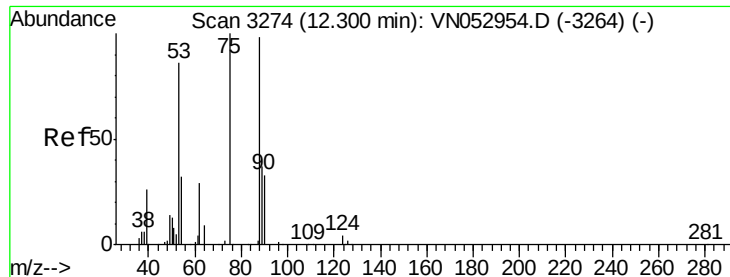
120 49.2 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052954.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN052954.D (-3392) (-)





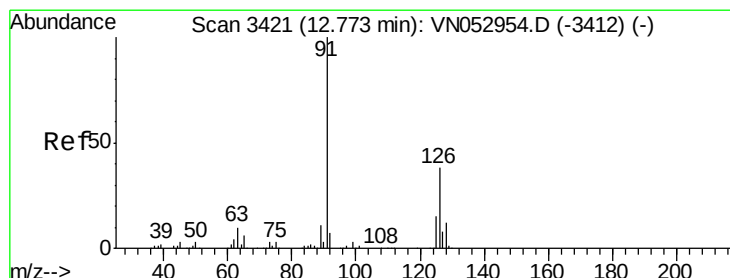
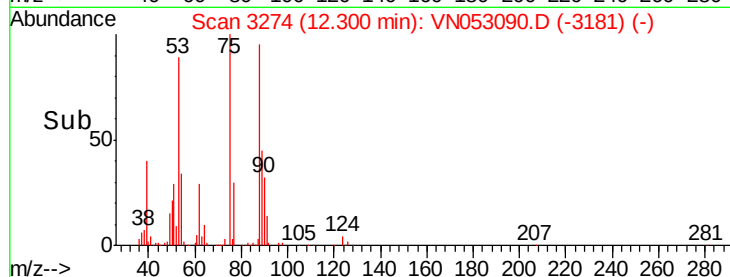
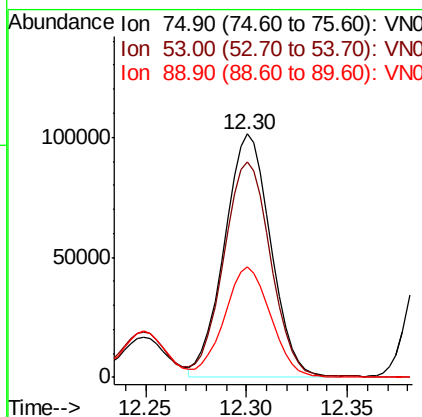
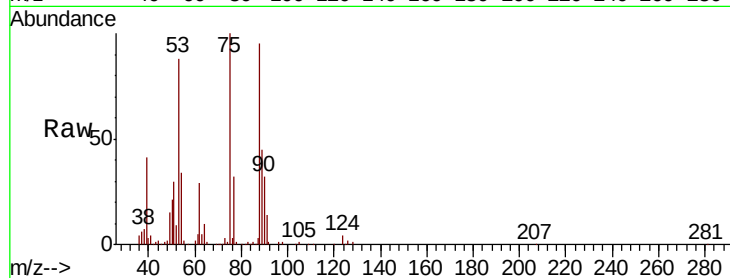
#81
trans-1,4-Dichloro-2-butene
Concen: 48.119 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.8	74.7	112.1
89	45.7	36.1	54.1

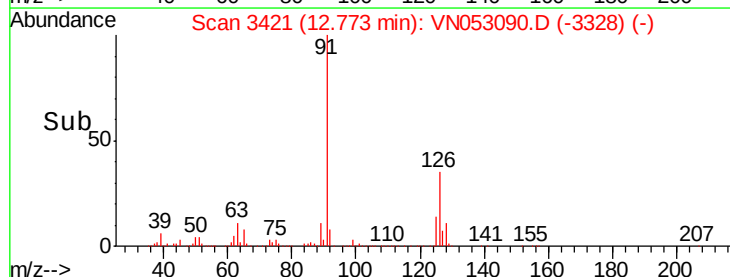
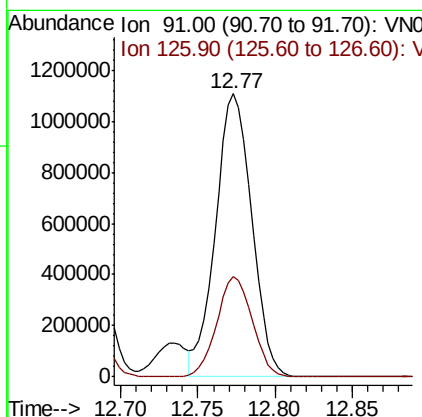
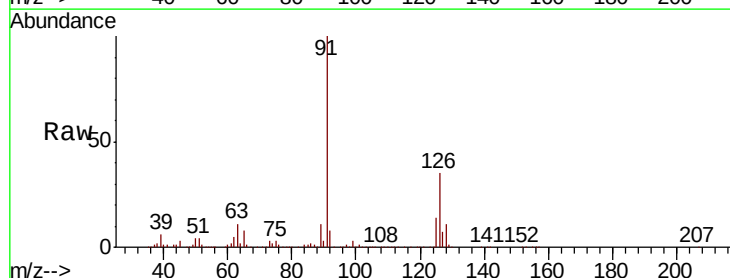
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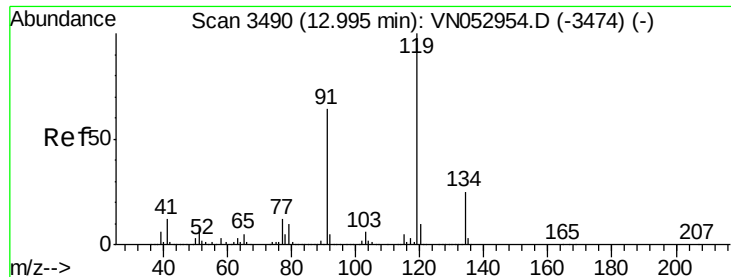
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12/21/2018 11:32:03 AM



#82
4-Chlorotoluene
Concen: 51.309 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.3	51.7





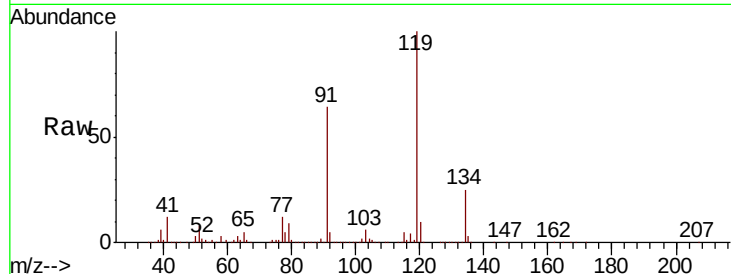
#83
tert-Butylbenzene
Concen: 51.233 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.7	31.9	95.5
134	25.7	12.8	38.4

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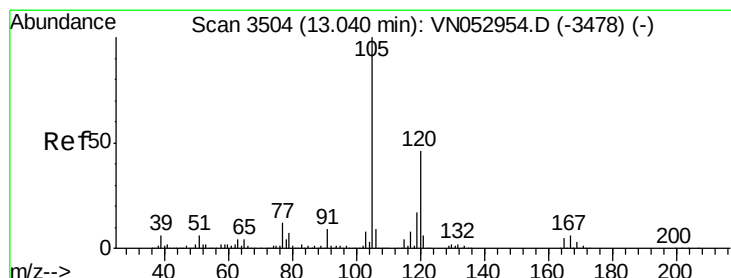
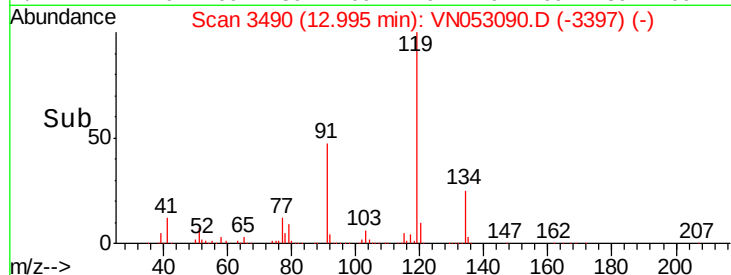
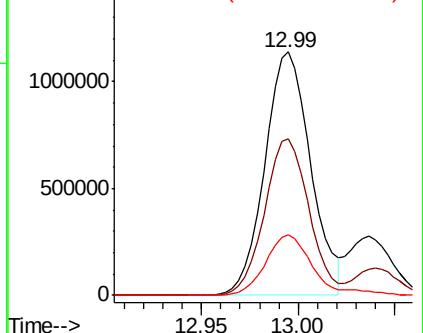


Abundance

Ion 119.00 (118.70 to 119.70): V

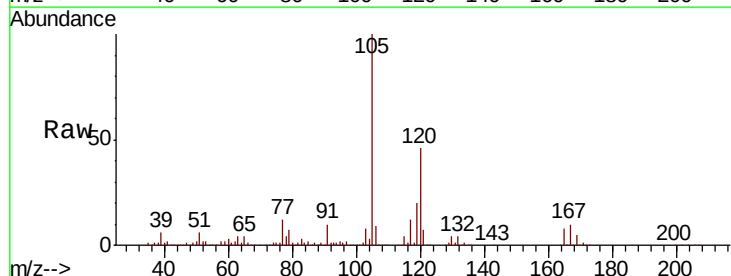
Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84
1,2,4-Trimethylbenzene
Concen: 50.453 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

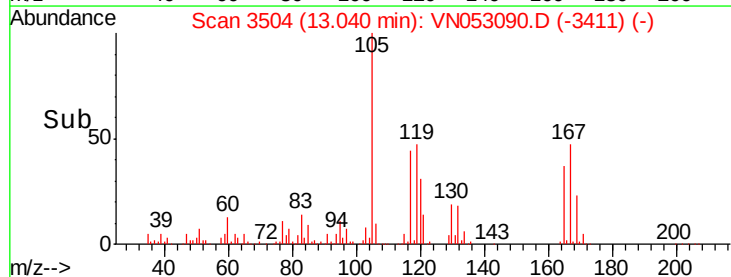
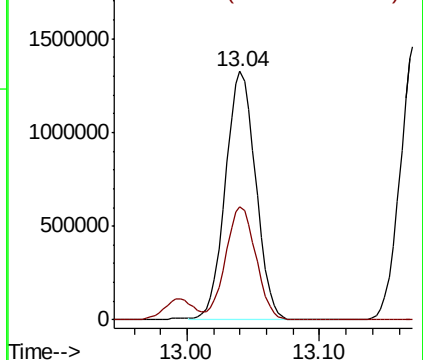
Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.8	22.9	68.8

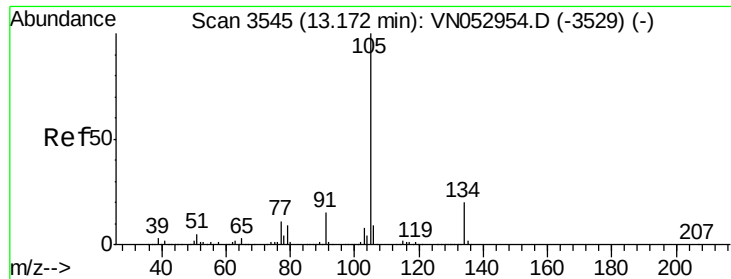


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





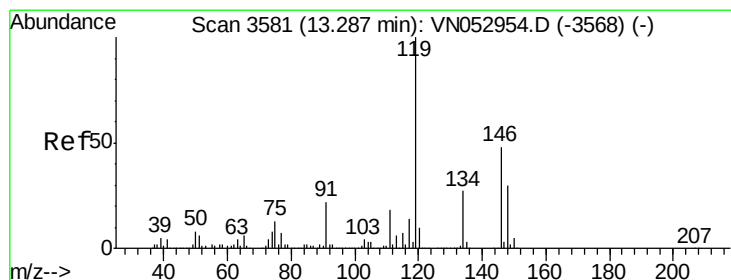
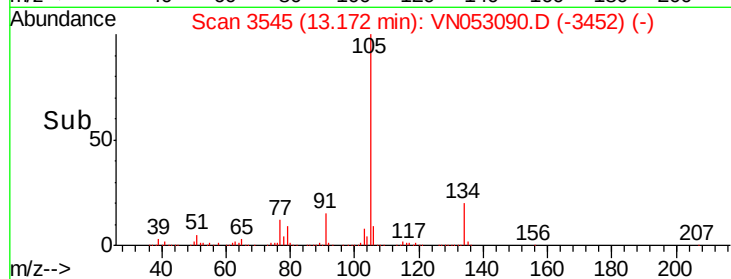
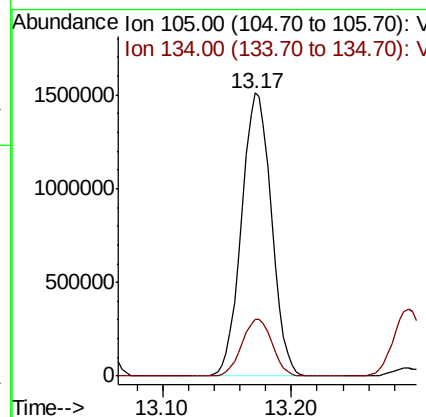
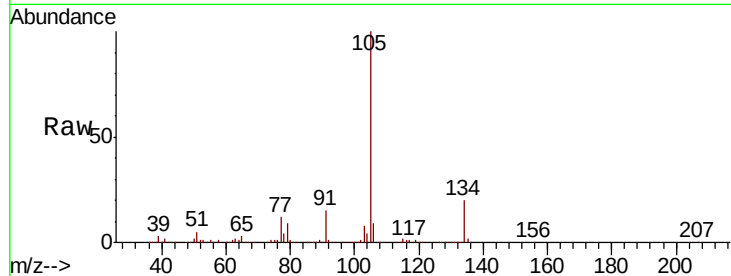
#85
 sec-Butylbenzene
 Concen: 49.182 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:105 Resp: 2431805
 Ion Ratio Lower Upper
 105 100
 134 20.4 10.1 30.3

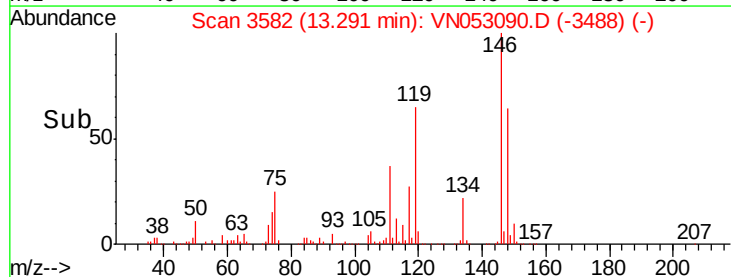
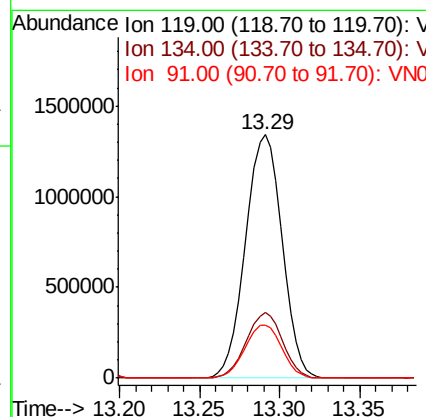
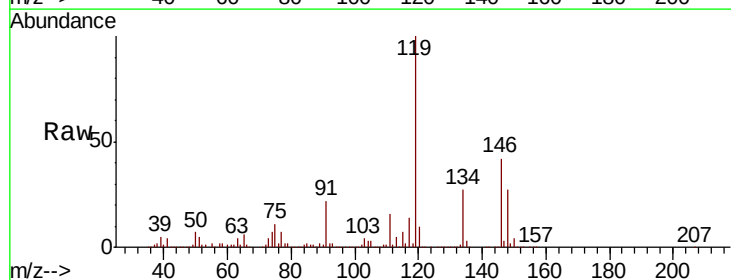
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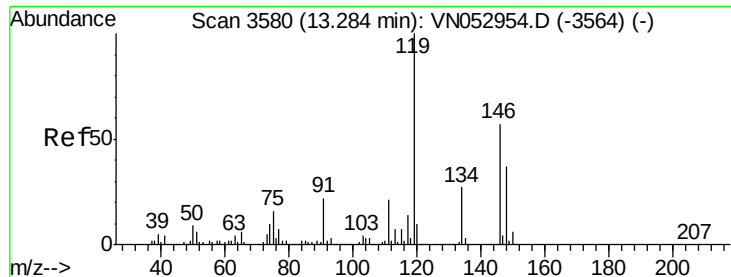
MMDadoda
 12/21/2018 11:32:03 AM



#86
 p-Isopropyltoluene
 Concen: 48.864 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Tgt Ion:119 Resp: 2087702
 Ion Ratio Lower Upper
 119 100
 134 26.6 13.4 40.2
 91 21.9 11.1 33.3





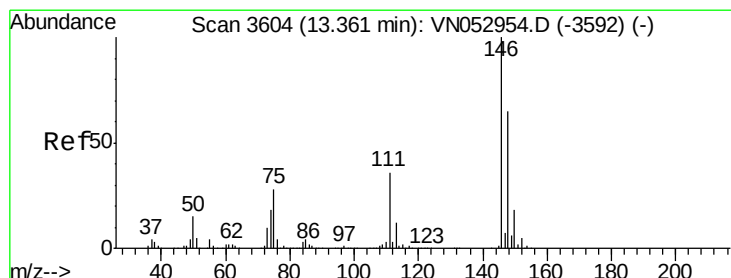
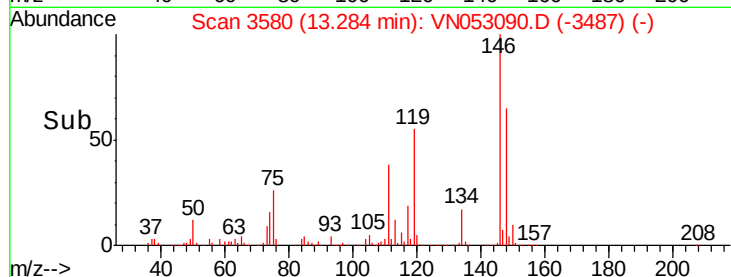
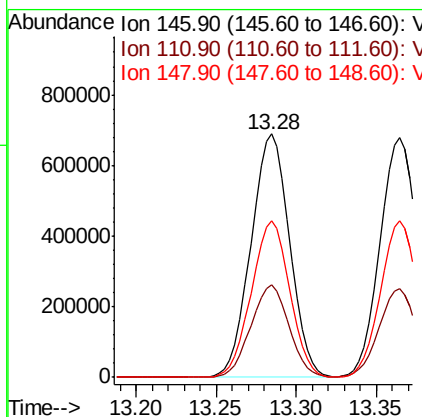
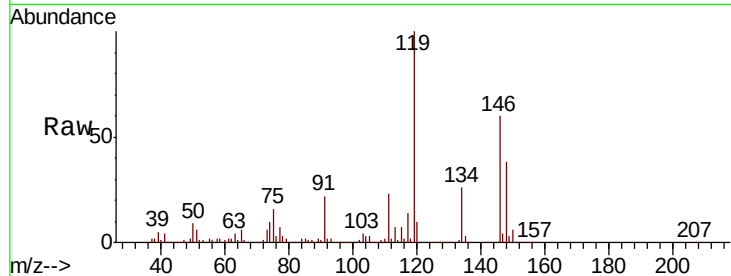
#87
 1,3-Dichlorobenzene
 Concen: 49.113 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:146 Resp: 1145823
 Ion Ratio Lower Upper
 146 100
 111 37.5 19.1 57.1
 148 64.0 32.0 96.0

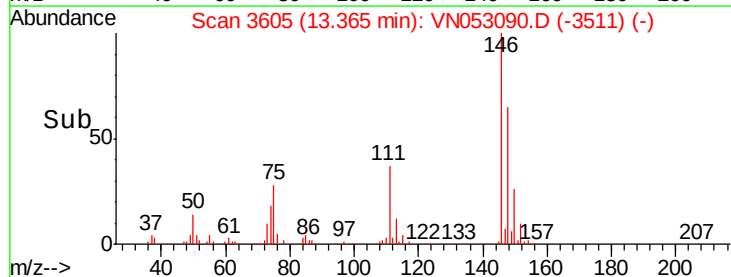
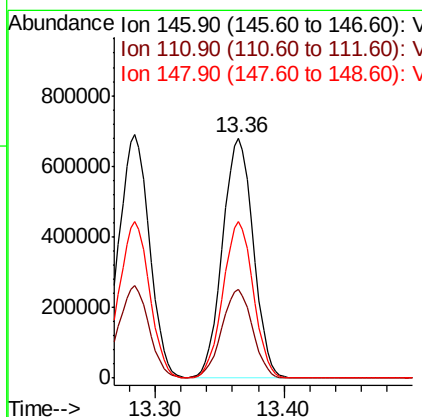
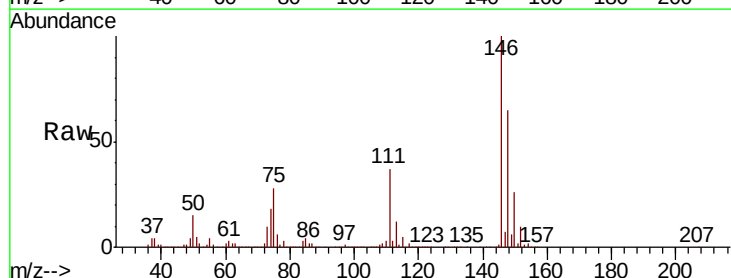
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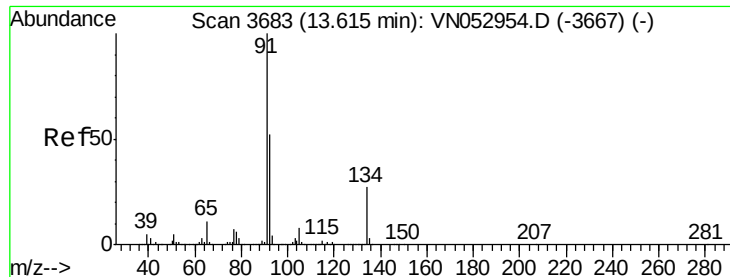
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#88
 1,4-Dichlorobenzene
 Concen: 47.585 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Tgt Ion:146 Resp: 1124246
 Ion Ratio Lower Upper
 146 100
 111 37.0 18.6 55.8
 148 64.1 32.1 96.5





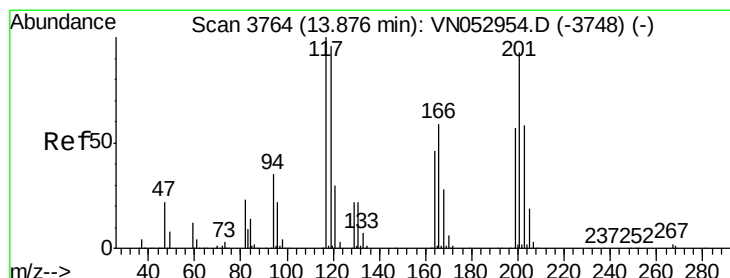
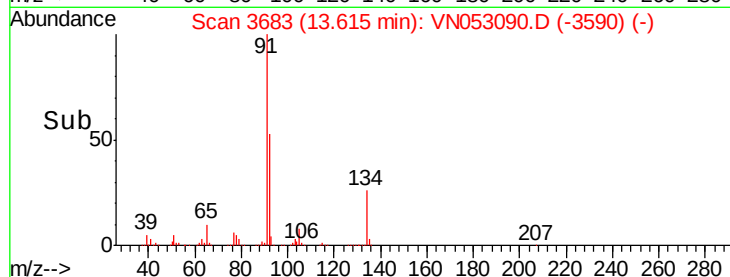
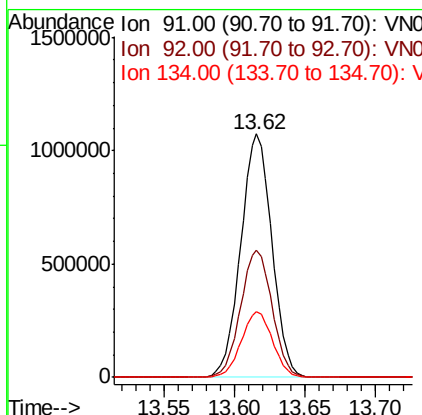
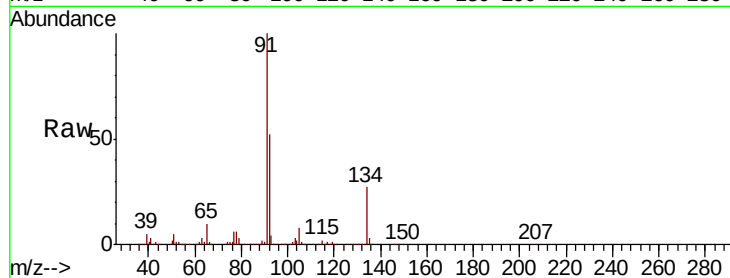
#89
n-Butylbenzene
Concen: 45.231 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.3	78.9
134	27.0	13.3	39.8

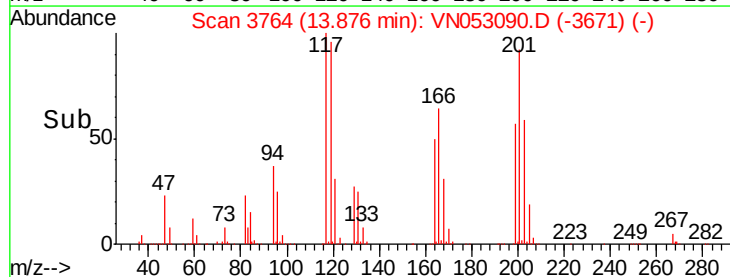
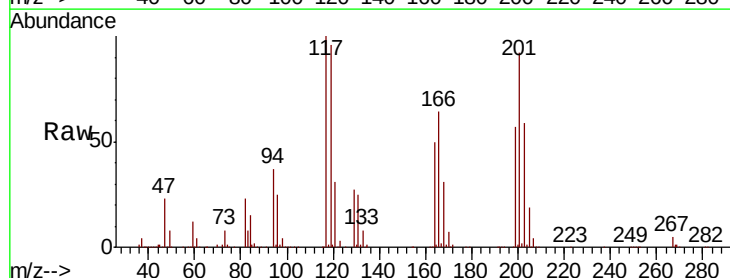
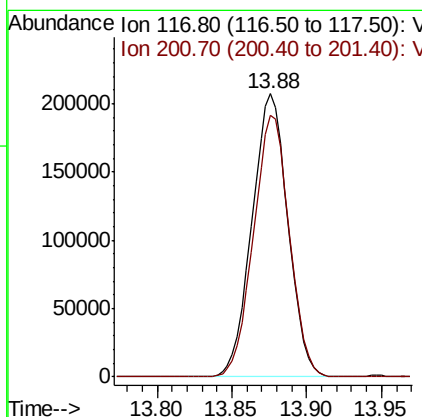
Manual Integrations
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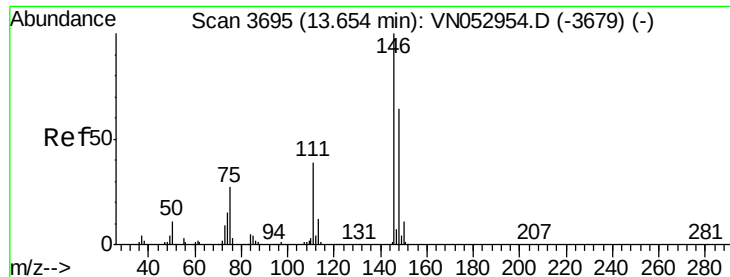
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12/21/2018 11:32:03 AM



#90
Hexachloroethane
Concen: 52.798 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.3	45.7	137.1





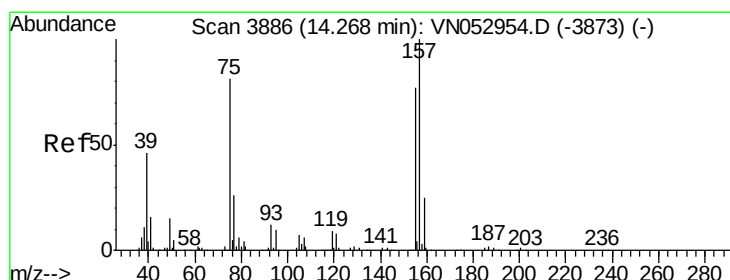
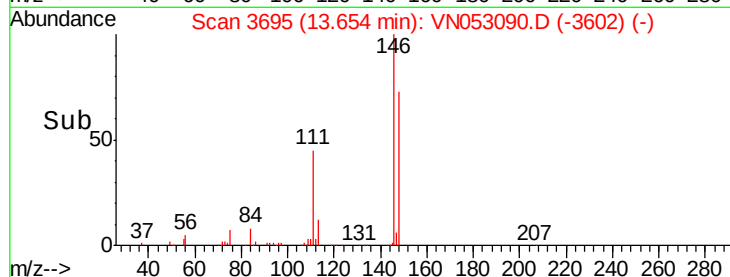
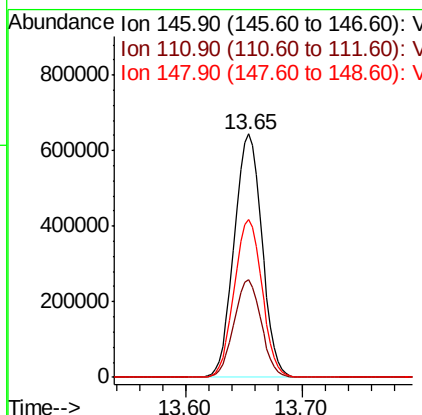
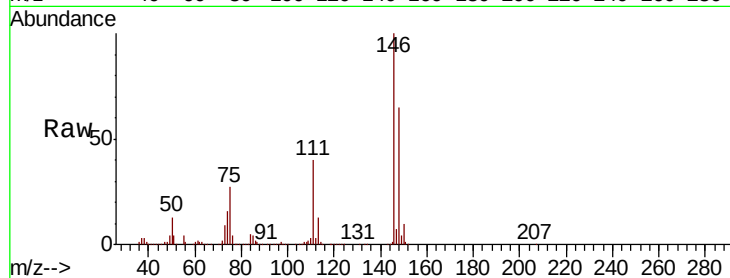
#91
 1,2-Dichlorobenzene
 Concen: 48.584 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.7	59.0
148	64.9	32.0	96.0

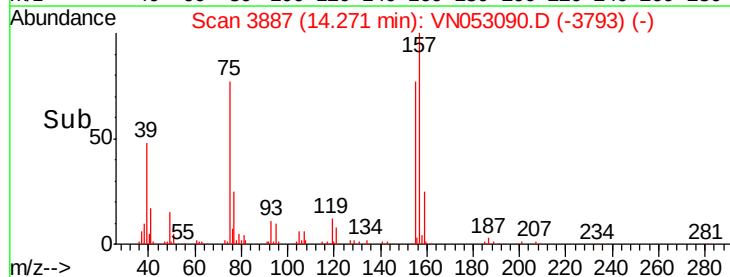
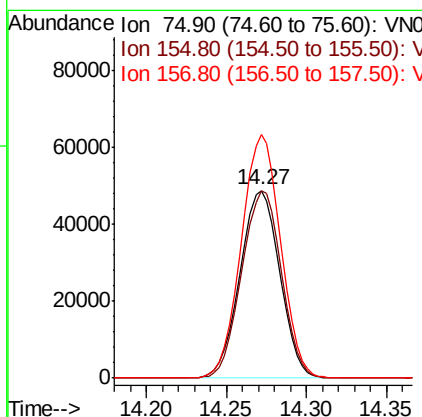
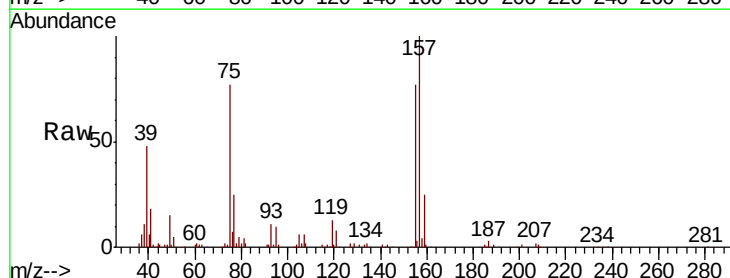
Manual Integrations
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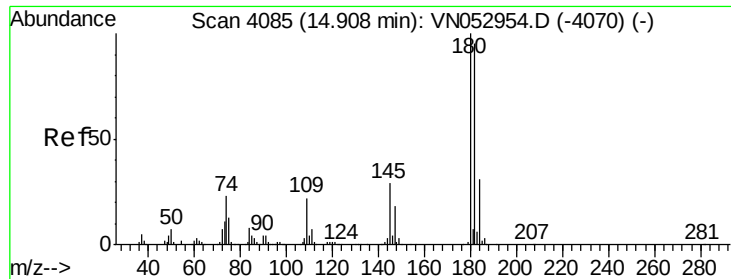
MMDadoda
 12/21/2018 11:32:03 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 48.166 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	99.6	48.2	144.6
157	127.7	61.2	183.5





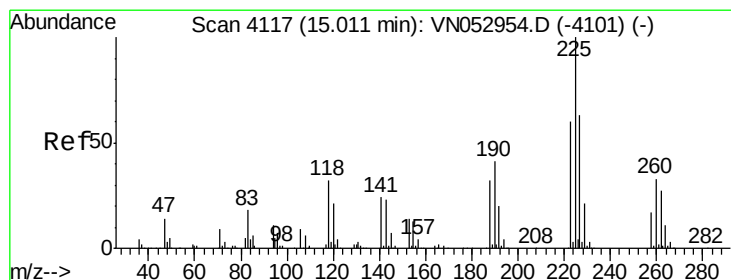
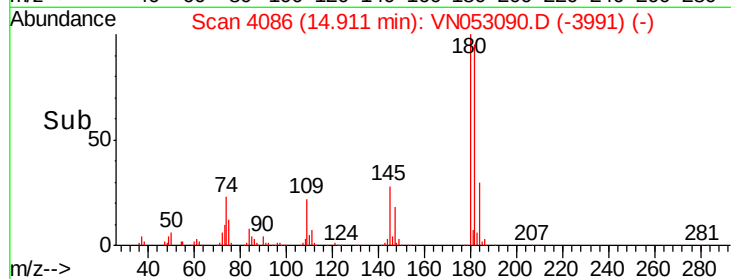
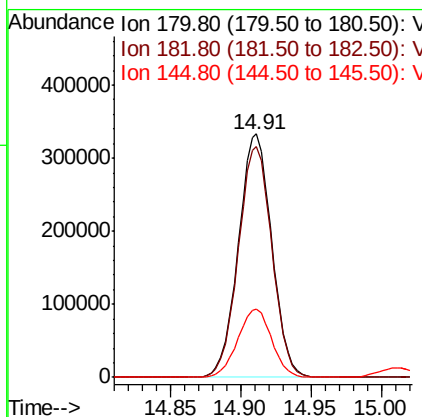
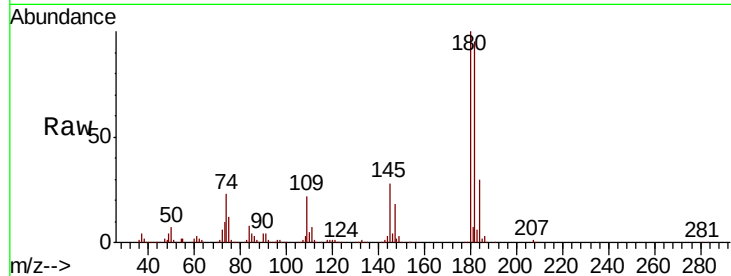
#93
 1,2,4-Trichlorobenzene
 Concen: 47.335 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.7	47.8	143.3	
145	28.6	14.2	42.6	

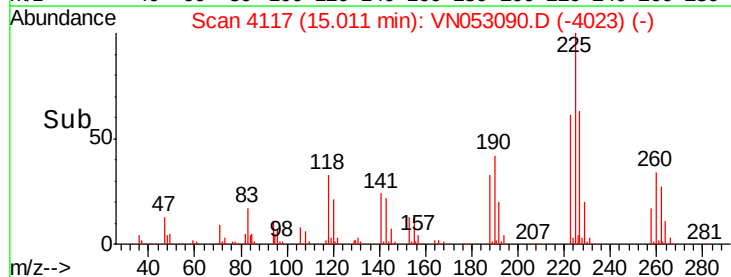
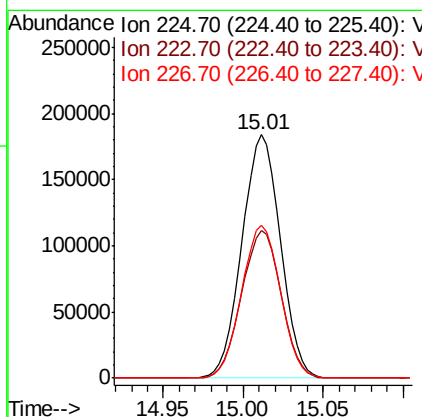
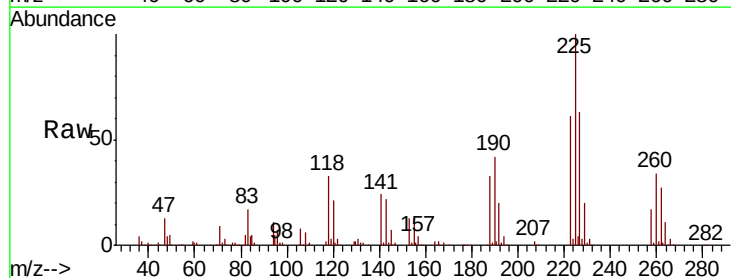
Manual Integrations
 APPROVED

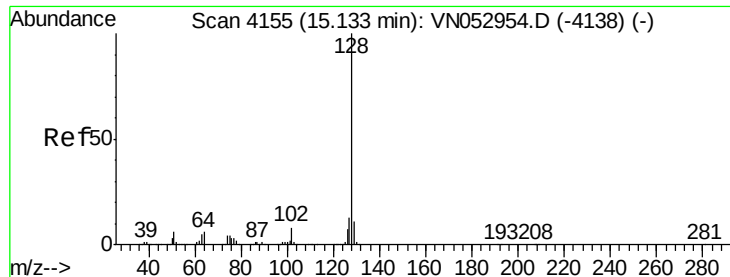
MMDadoda
 12/21/2018 11:32:03 AM



#94
 Hexachlorobutadiene
 Concen: 50.354 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053090.D
 Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.3	31.5	94.5	
227	63.5	31.9	95.7	





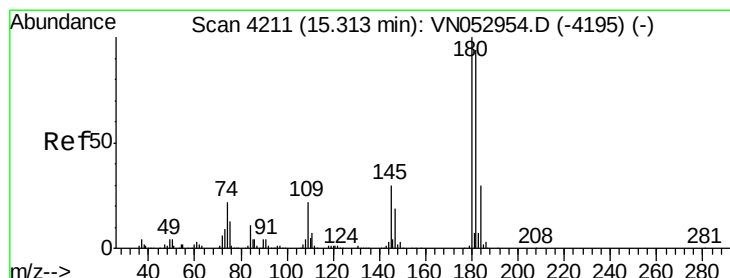
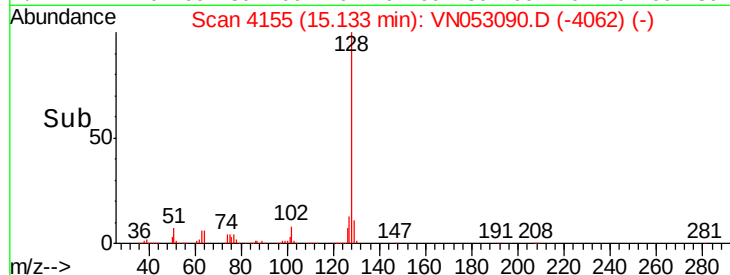
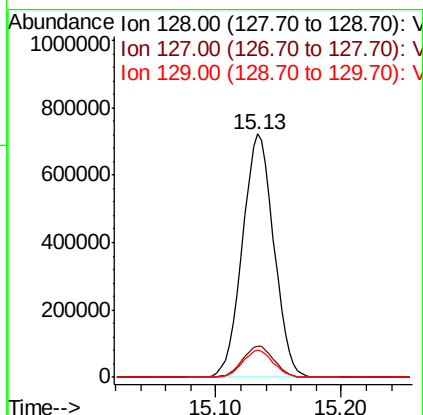
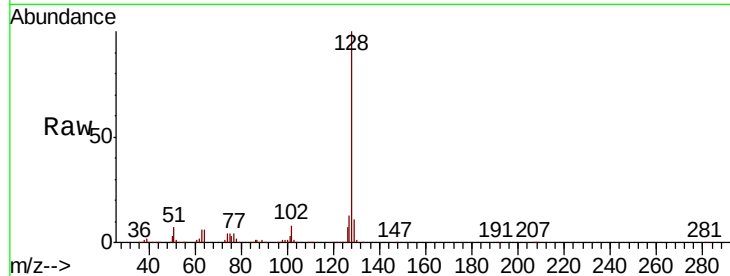
#95
Naphthalene
Concen: 49.262 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:32:03 AM



#96
1,2,3-Trichlorobenzene
Concen: 47.683 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN053090.D
Acq: 21 Dec 2018 7:02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.8	47.9	143.7
145	30.4	15.0	45.0

