

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV071720\
 Data File : VV017530.D
 Acq On : 17 Jul 2020 17:50
 Operator : SY/MD
 Sample : L3336-07
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-5

Quant Time: Jul 18 05:10:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM070820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jul 18 05:06:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	320588	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	350050	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.28	152	199248	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	80937	48.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	97.00%
7) Chloroethane-d5	1.58	69	62859	53.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.24%
11) 1,1-Dichloroethene-d2	2.12	63	152629	40.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.78%
21) 2-Butanone-d5	3.92	46	108702	95.36	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	95.36%
24) Chloroform-d	4.38	84	148689	38.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	77.04%
26) 1,2-Dichloroethane-d4	5.06	65	113903	42.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.98%
32) Benzene-d6	5.08	84	273443	36.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	72.32%
36) 1,2-Dichloropropane-d6	6.10	67	88293	40.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	81.10%
41) Toluene-d8	7.35	98	296709	40.81	ug/L	0.01
Spiked Amount	50.000	Range	80 - 120	Recovery	=	81.62%
43) trans-1,3-Dichloropropene-	7.65	79	57957	45.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.46%
47) 2-Hexanone-d5	8.11	63	106191	118.83	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	118.83%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	139219	45.53	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.06%
64) 1,2-Dichlorobenzene-d4	11.65	152	150267	45.11	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.22%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	431453	176.118	ug/L 96
12) 1,1-Dichloroethene	2.13	96	38185	19.831	ug/L # 70
16) Methylene chloride	2.53	84	2404	1.072	ug/L 92
17) trans-1,2-Dichloroethene	2.78	96	37323	17.824	ug/L 95
19) 1,1-Dichloroethane	3.22	63	7498	1.947	ug/L 94
20) cis-1,2-Dichloroethene	3.94	96	6315905	2815.059	ug/L 95
29) Cyclohexane	4.70	56	21872	5.992	ug/L 94
33) Benzene	5.13	78	274232	29.636	ug/L 100
34) Trichloroethene	5.95	95	8377146	3049.340	ug/L 93
35) Methylcyclohexane	6.16	83	90762	22.561	ug/L 98
39) cis-1,3-Dichloropropene	7.01	75	3324	0.862	ug/L # 50
46) Tetrachloroethene	8.03	164	17013607	7375.589	ug/L 88
51) Chlorobenzene	8.91	112	2628306	375.023	ug/L 99
52) Ethylbenzene	9.04	91	4103445	346.874	ug/L 100
53) m,p-Xylene	9.16	106	5429168	1225.857	ug/L 93
54) o-xylene	9.57	106	2148520	505.053	ug/L 98
56) Isopropylbenzene	9.96	105	383649	32.416	ug/L 100

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 Quant Title : VOC Analysis
 QLast Update : Sat Jul 18 05:06:25 2020
 Response via : Initial Calibration

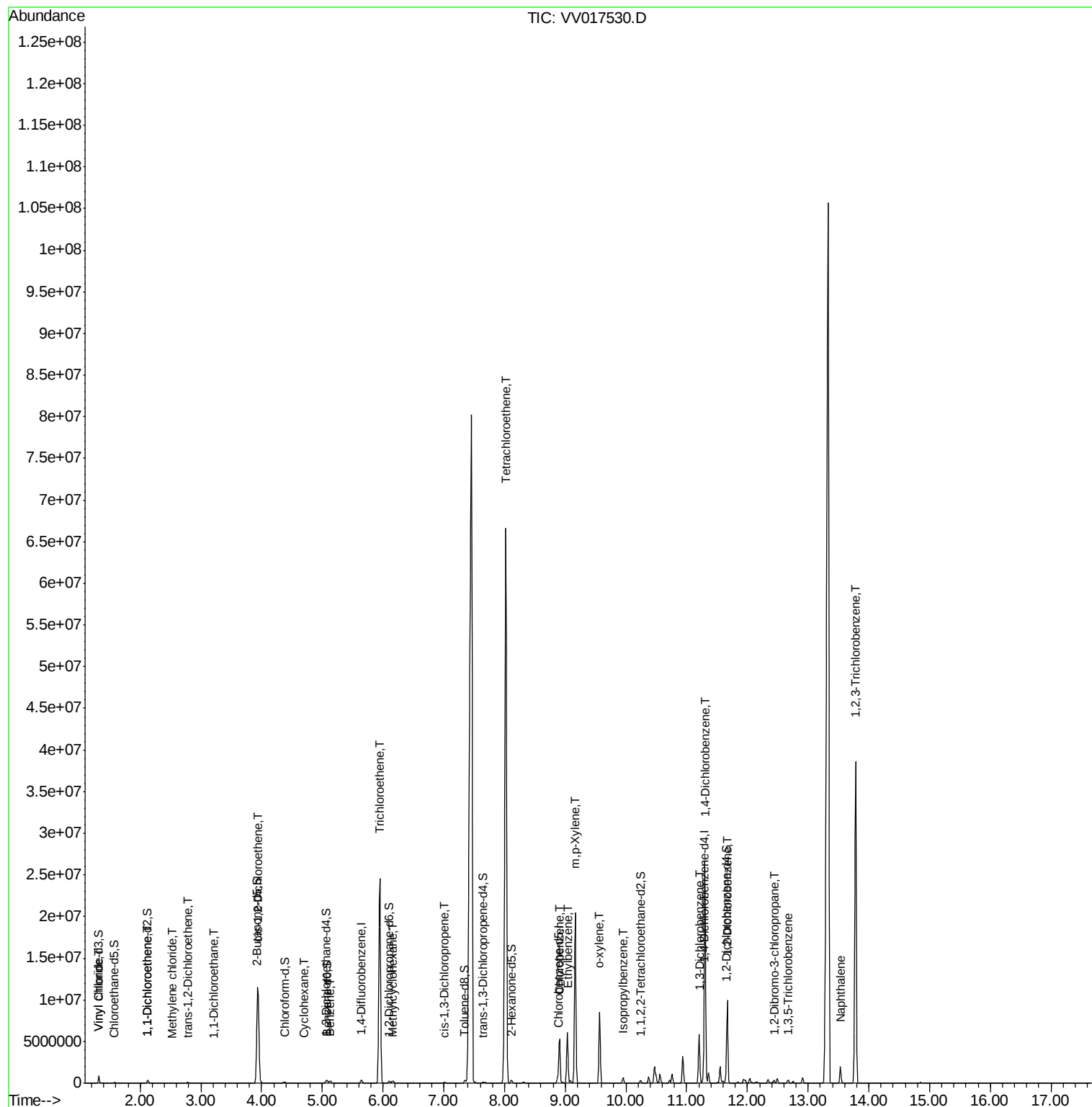
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3-Dichlorobenzene	11.21	146	2293132	368.831	ug/L	98
63) 1,4-Dichlorobenzene	11.30	146	9781893	1550.186	ug/L	95
65) 1,2-Dichlorobenzene	11.67	146	3643598	587.888	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.44	75	3121	3.095	ug/L #	3
67) 1,3,5-Trichlorobenzene	12.67	180	116974	24.976	ug/L	100
69) Naphthalene	13.53	128	1458292	127.151	ug/L	100
70) 1,2,3-Trichlorobenzene	13.78	180	11397276	2728.273	ug/L	98

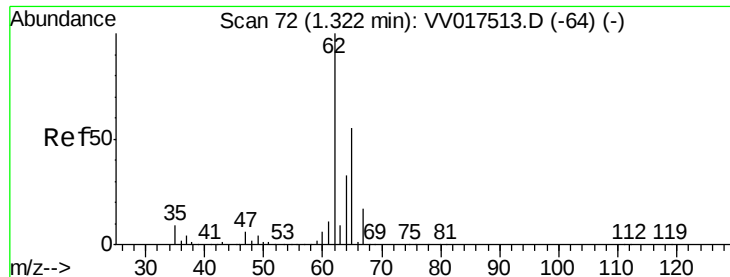
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis
QLast Update : Sat Jul 18 05:06:25 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 176.118 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Instrument :

MSVOA_V

ClientSampleId :

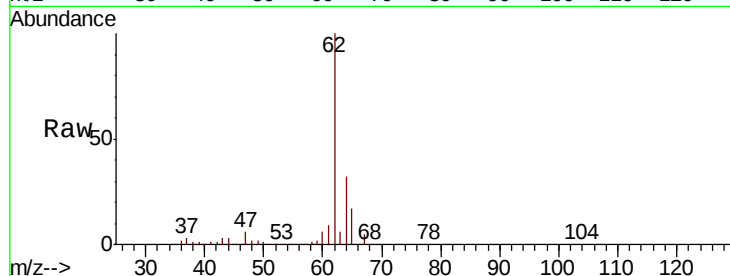
PMW-5

Tot Ion: 62 Resp: 431453

Ion Ratio Lower Upper

62 100

64 32.3 24.1 44.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

400000

300000

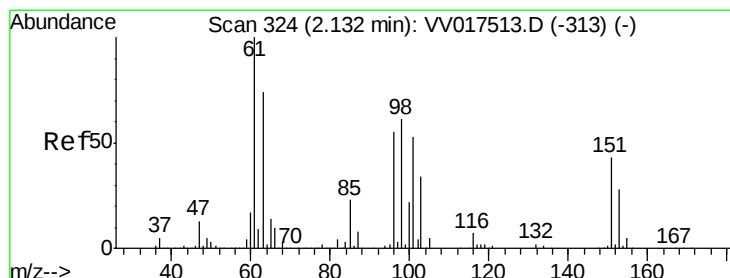
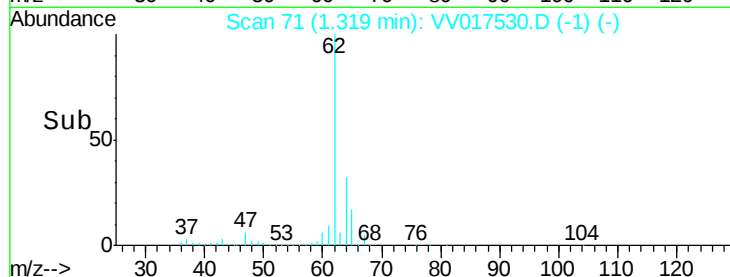
200000

100000

0

Time-->

1.25 1.30 1.35 1.40



#12

1,1-Dichloroethene

Concen: 19.831 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

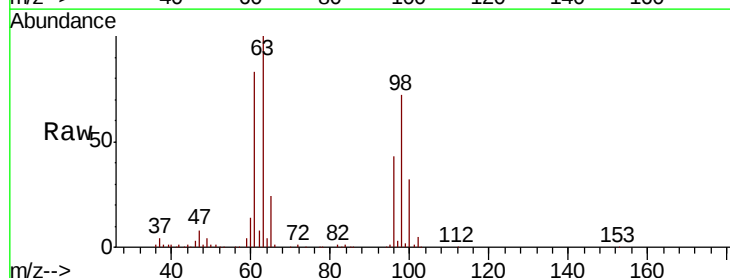
Tgt Ion: 96 Resp: 38185

Ion Ratio Lower Upper

96 100

61 192.3 132.7 246.4

63 231.3 103.3 191.8#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0

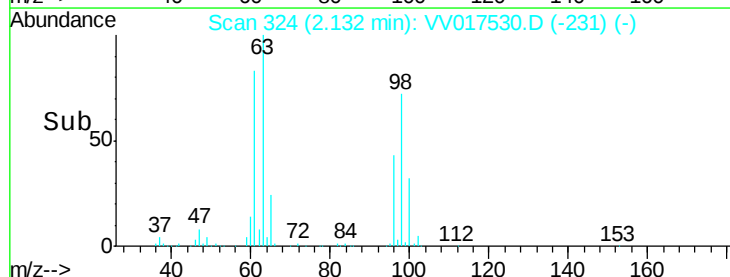
100000

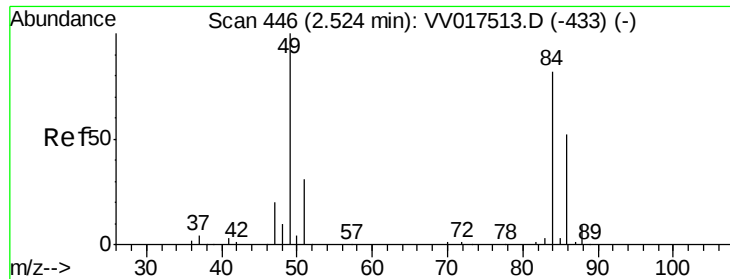
50000

0

Time-->

2.10 2.15

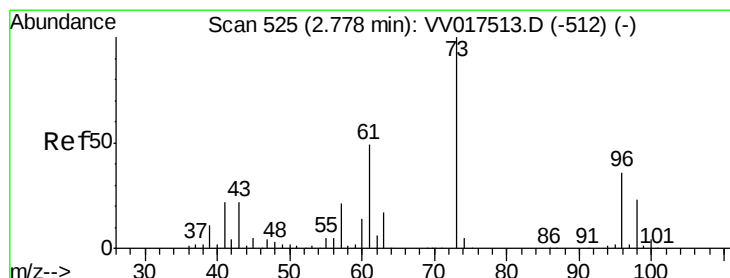
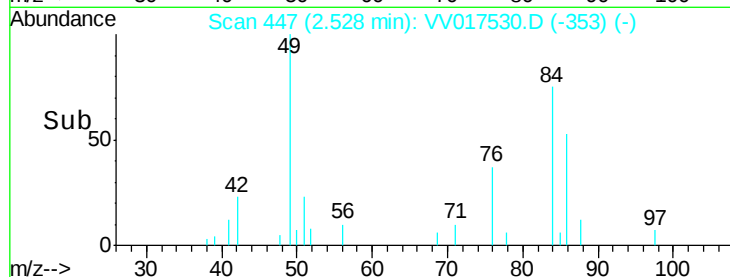
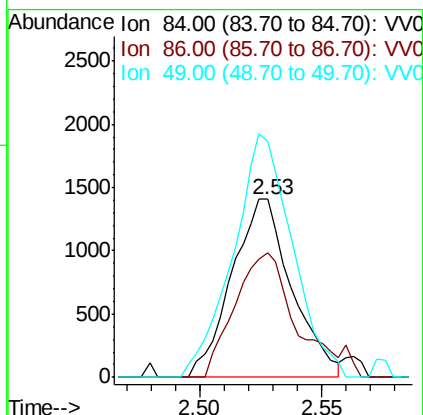
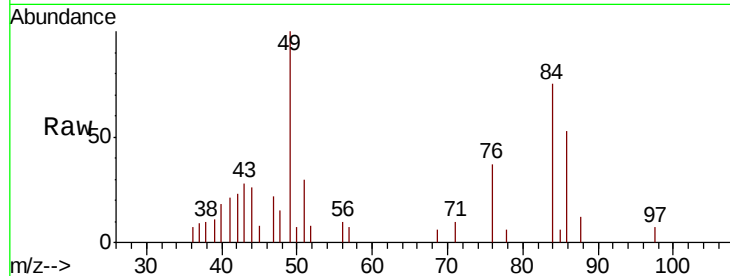




#16
Methvlene chloride
Concen: 1.072 ug/L
RT: 2.53 min Scan# 447
Delta R.T. 0.00 min
Lab File: VV017530.D
Acq: 17 Jul 2020 17:50

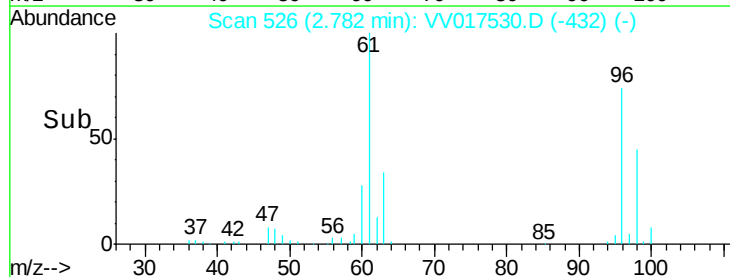
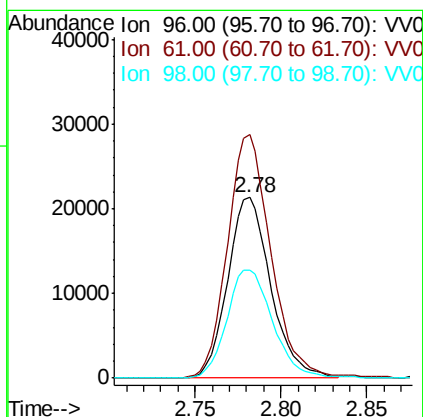
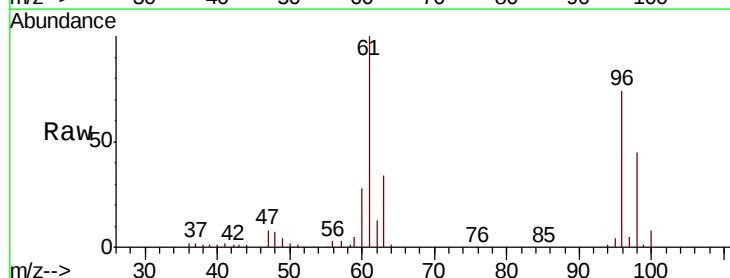
Instrument :
MSVOA_V
ClientSampled :
PMW-5

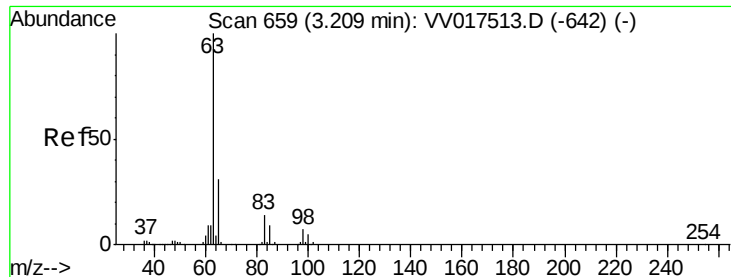
Tot Ion: 84 Resp: 2404
Ion Ratio Lower Upper
84 100
86 70.0 46.5 86.5
49 132.7 85.3 158.5



#17
trans-1,2-Dichloroethene
Concen: 17.824 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.00 min
Lab File: VV017530.D
Acq: 17 Jul 2020 17:50

Tgt Ion: 96 Resp: 37323
Ion Ratio Lower Upper
96 100
61 134.9 99.0 184.0
98 60.1 44.4 82.5

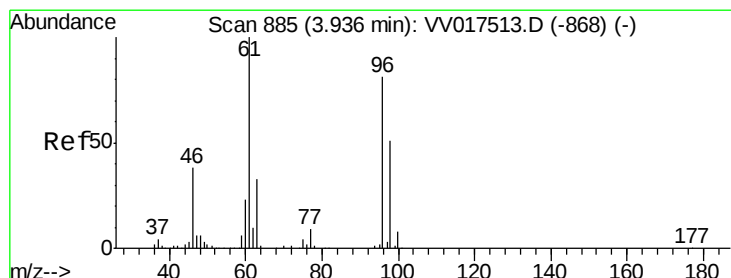
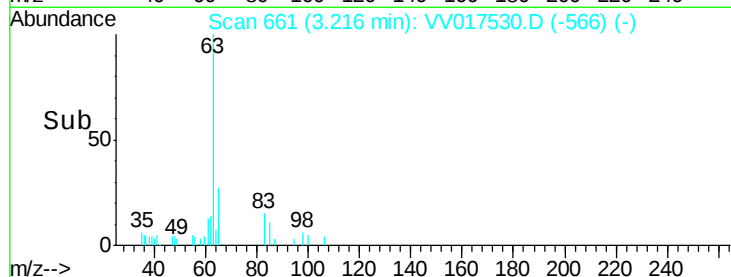
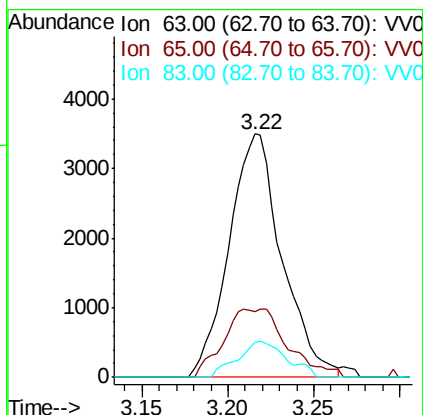
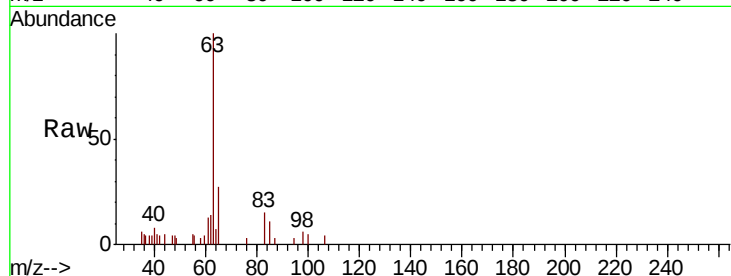




#19
 1,1-Dichloroethane
 Concen: 1.947 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.01 min
 Lab File: VV017530.D
 Acq: 17 Jul 2020 17:50

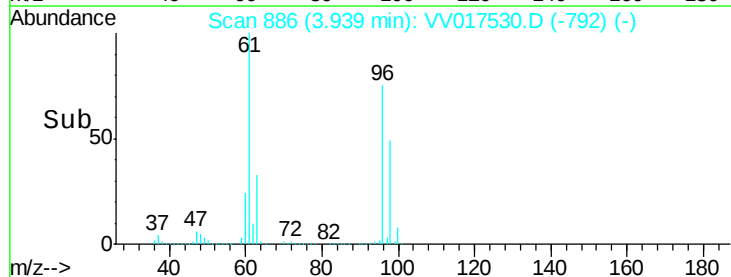
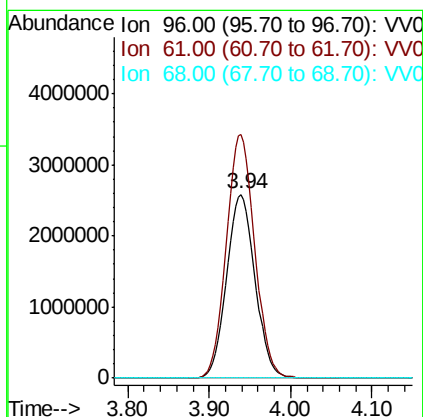
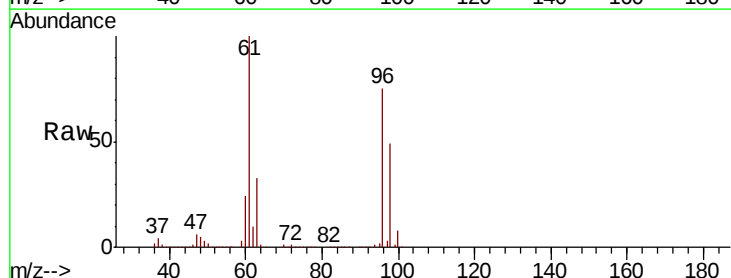
Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-5

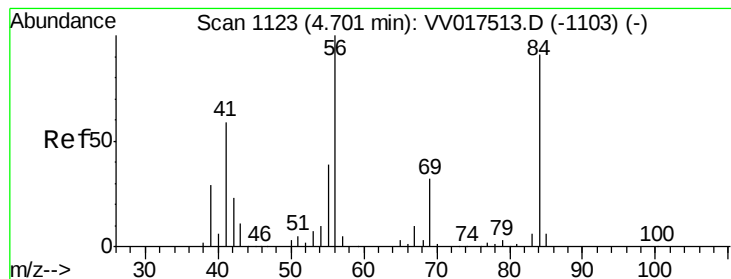
Tot Ion: 63 Resp: 7498
 Ion Ratio Lower Upper
 63 100
 65 26.9 22.1 41.1
 83 14.6 10.1 18.9



#20
 cis-1,2-Dichloroethene
 Concen: 2815.059 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV017530.D
 Acq: 17 Jul 2020 17:50

Tgt Ion: 96 Resp: 6315905
 Ion Ratio Lower Upper
 96 100
 61 132.7 88.9 165.1
 68 0.0 0.0 0.0





#29

Cyclohexane

Concen: 5.992 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Instrument :

MSVOA_V

ClientSampleId :

PMW-5

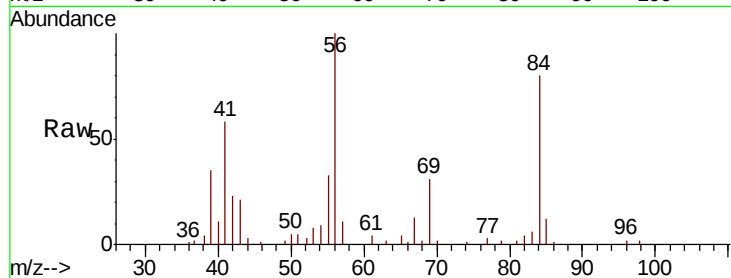
Tot Ion: 56 Resp: 21872

Ion Ratio Lower Upper

56 100

69 32.7 27.0 40.4

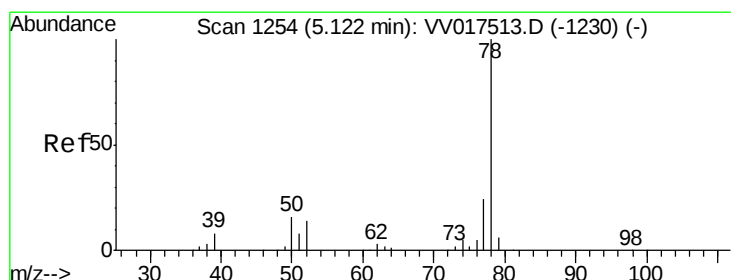
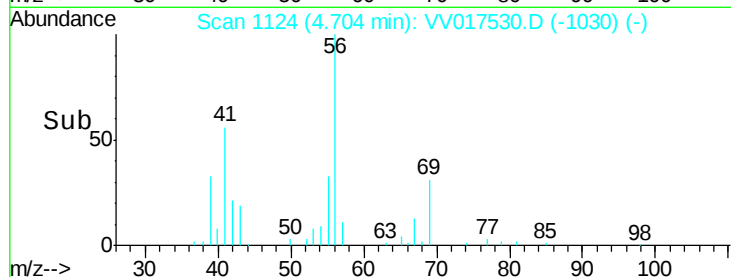
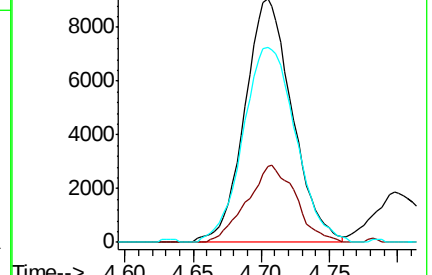
84 88.8 77.4 116.0



Abundance Ion 56.00 (55.70 to 56.70): VV017530.D (-1103) (-)

Ion 69.00 (68.70 to 69.70): VV017530.D (-1103) (-)

Ion 84.00 (83.70 to 84.70): VV017530.D (-1103) (-)



#33

Benzene

Concen: 29.636 ug/L

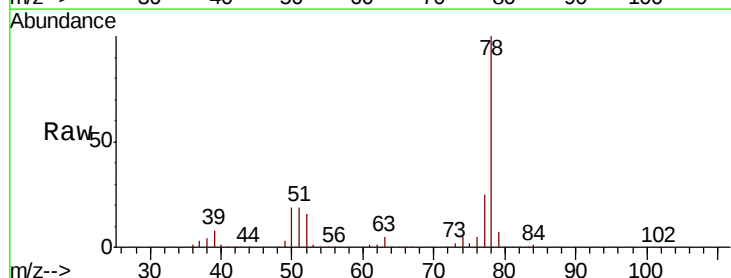
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

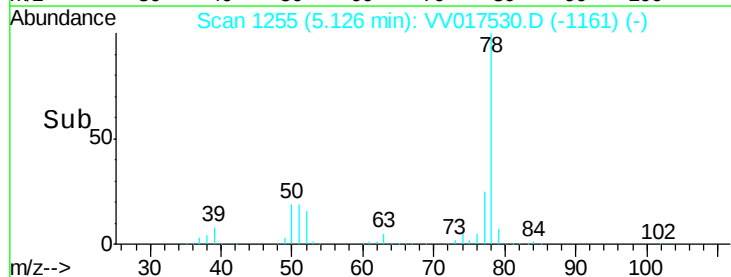
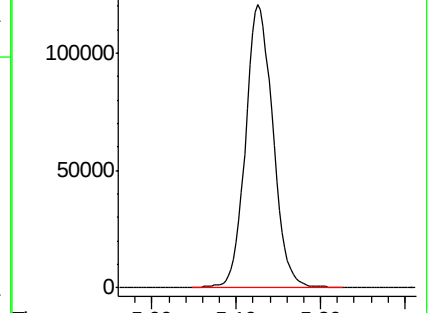
Tgt Ion: 78 Resp: 274232

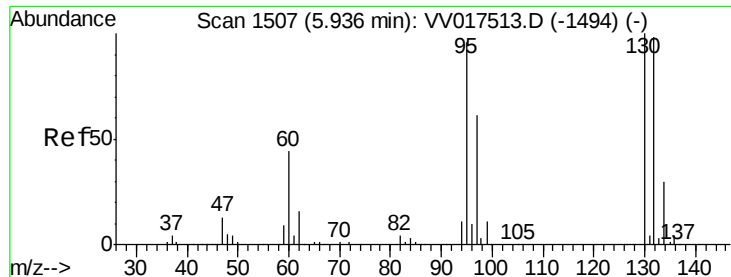


Abundance Ion 78.00 (77.70 to 78.70): VV017530.D (-1230) (-)

Ion 78.00 (77.70 to 78.70): VV017530.D (-1230) (-)

Ion 78.00 (77.70 to 78.70): VV017530.D (-1230) (-)





#34

Trichloroethene

Concen: 3049.340 ug/L

RT: 5.95 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Instrument :

MSVOA_V

ClientSampleId :

PMW-5

Tot Ion: 95 Resp: 8377146

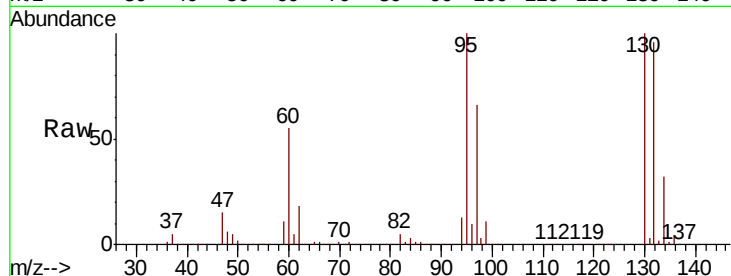
Ion Ratio Lower Upper

95 100

97 65.8 45.6 84.6

132 96.3 74.1 137.5

130 99.7 75.5 140.3

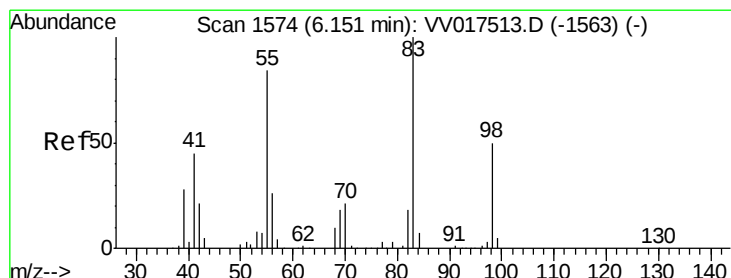
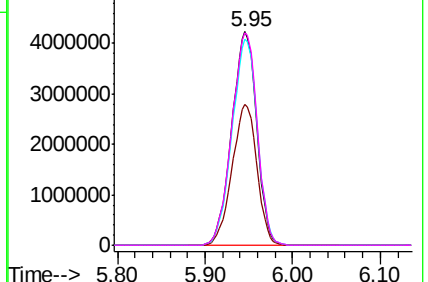
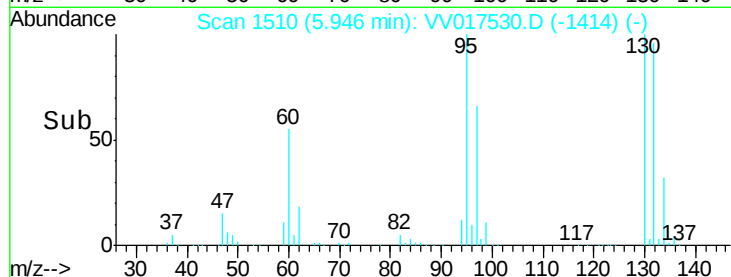


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 22.561 ug/L

RT: 6.16 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

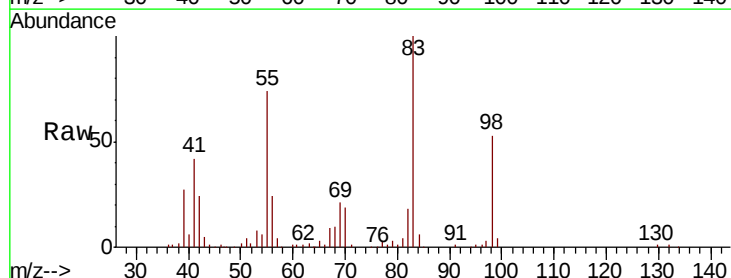
Tgt Ion: 83 Resp: 90762

Ion Ratio Lower Upper

83 100

55 78.0 61.0 91.6

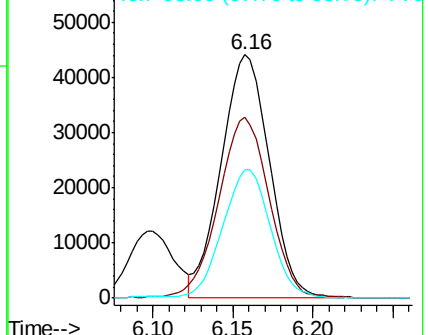
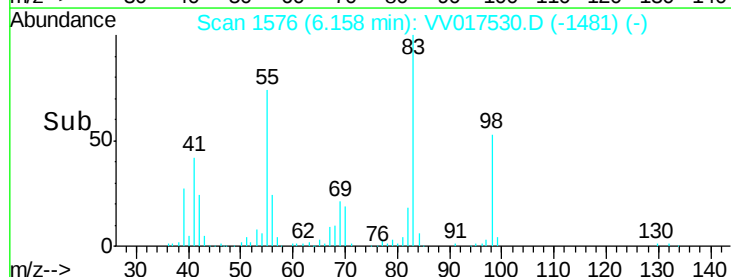
98 52.3 41.3 61.9

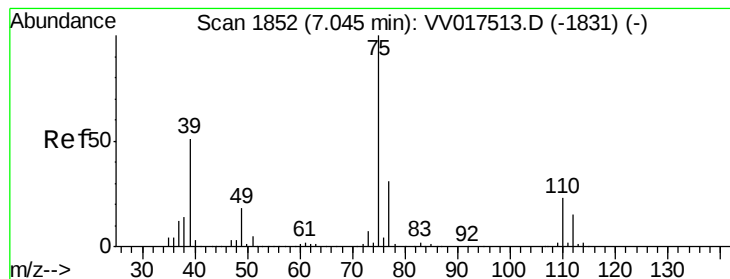


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



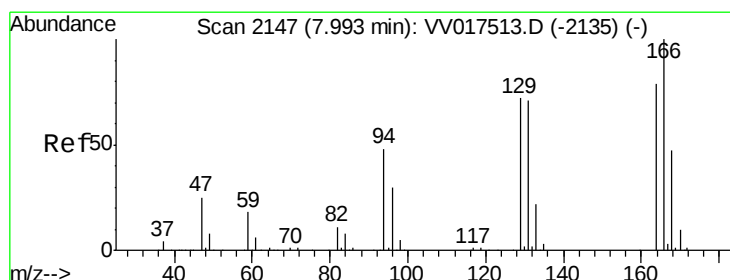
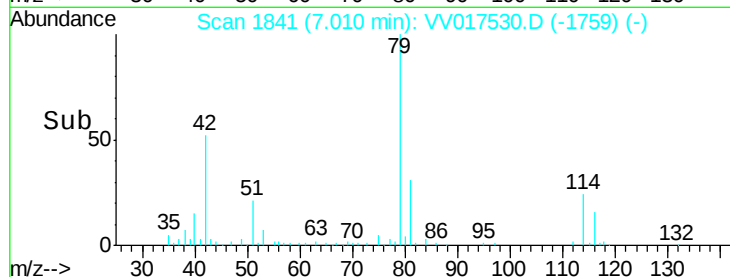
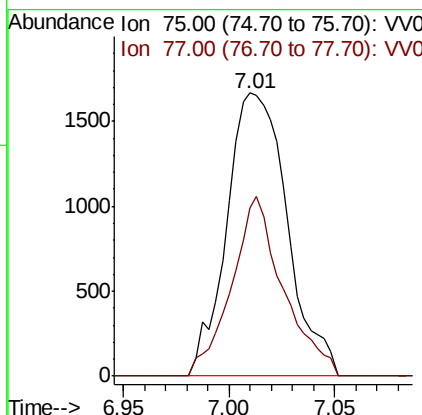
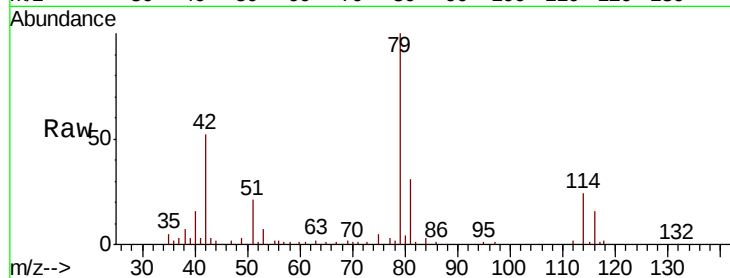


#39

cis-1,3-Dichloropropene
Concen: 0.862 ug/L
RT: 7.01 min Scan# 1841
Delta R.T. -0.04 min
Lab File: VV017530.D
Acq: 17 Jul 2020 17:50

Instrument :
MSVOA_V
ClientSampleId :
PMW-5

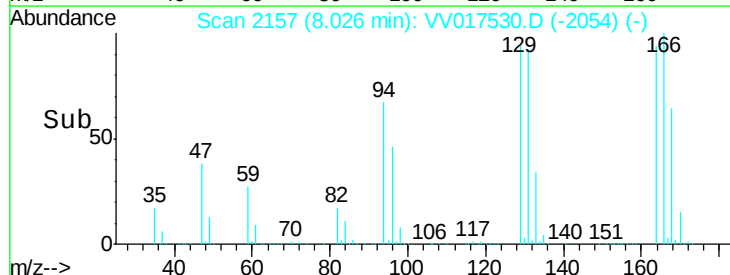
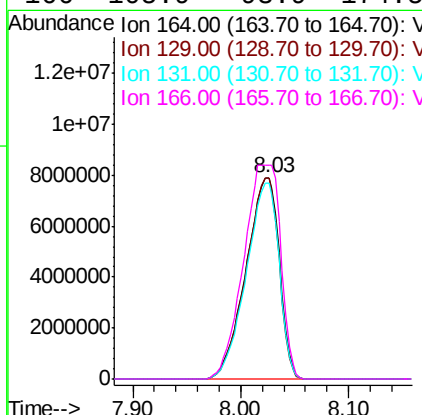
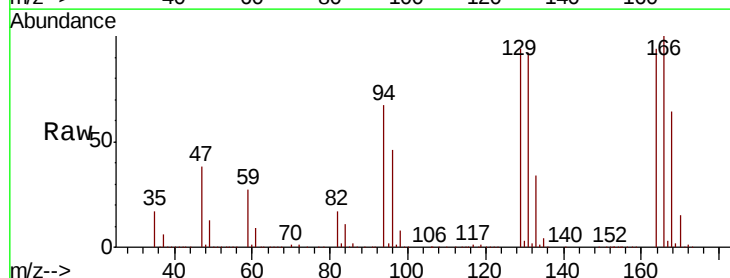
Tot Ion: 75 Resp: 3324
Ion Ratio Lower Upper
75 100
77 59.3 22.2 41.2#

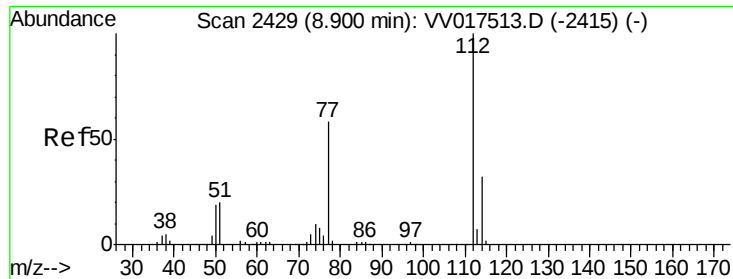


#46

Tetrachloroethene
Concen: 7375.589 ug/L
RT: 8.03 min Scan# 2157
Delta R.T. 0.03 min
Lab File: VV017530.D
Acq: 17 Jul 2020 17:50

Tgt Ion:164 Resp:17013607
Ion Ratio Lower Upper
164 100
129 99.6 66.6 123.8
131 97.4 65.5 121.7
166 105.9 93.9 174.5





#51

Chlorobenzene

Concen: 375.023 ug/L

RT: 8.91 min Scan# 2431

Delta R.T. 0.01 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Instrument :

MSVOA_V

ClientSampleId :

PMW-5

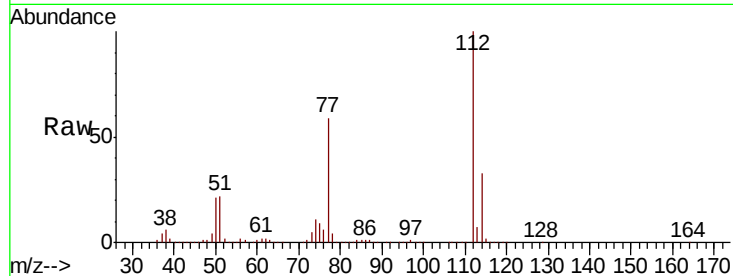
Tot Ion:112 Resp: 2628306

Ion Ratio Lower Upper

112 100

114 32.8 22.7 42.1

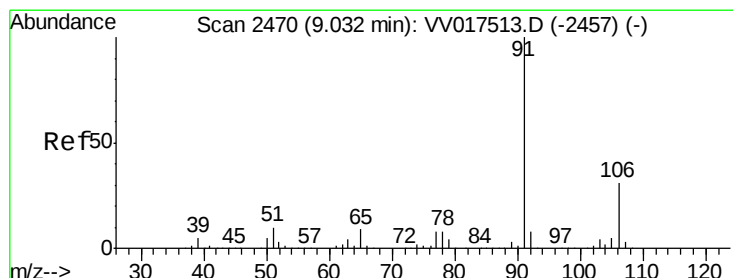
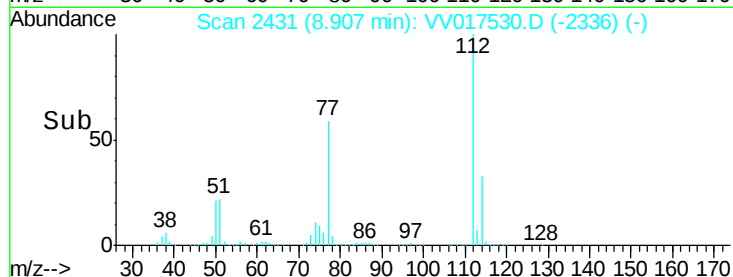
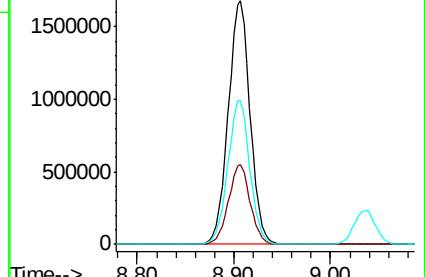
77 59.1 46.7 70.1



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 346.874 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV017530.D

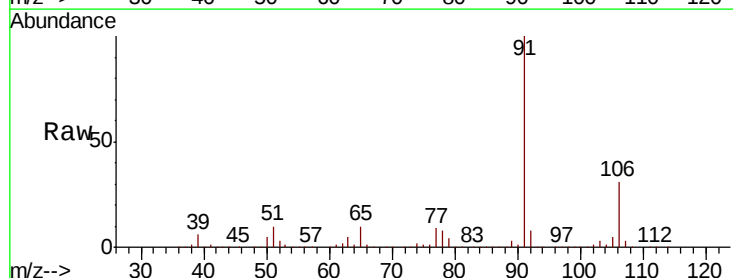
Acq: 17 Jul 2020 17:50

Tgt Ion: 91 Resp: 4103445

Ion Ratio Lower Upper

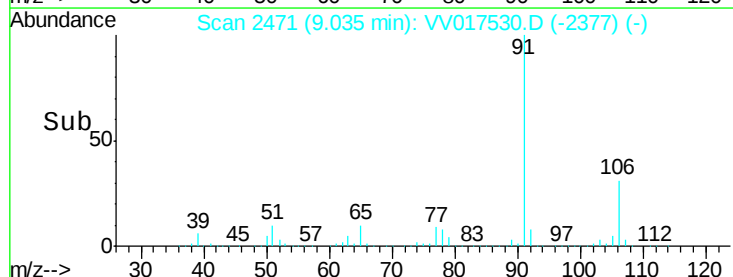
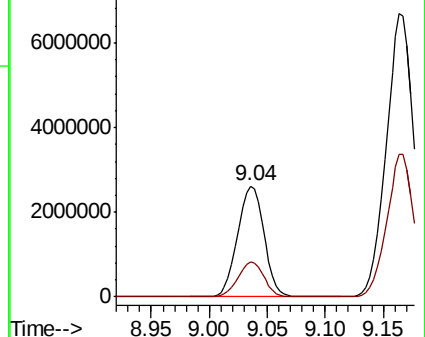
91 100

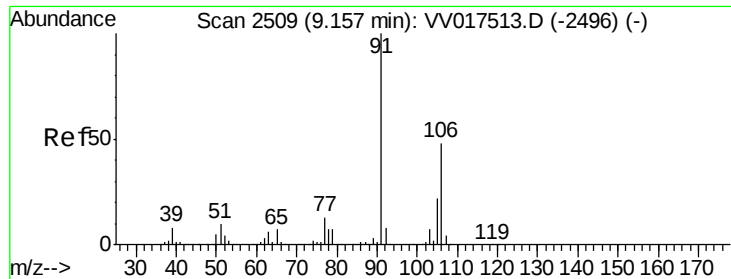
106 31.1 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 1225.857 ug/L

RT: 9.16 min Scan# 2511

Delta R.T. 0.01 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Instrument :

MSVOA_V

ClientSampleId :

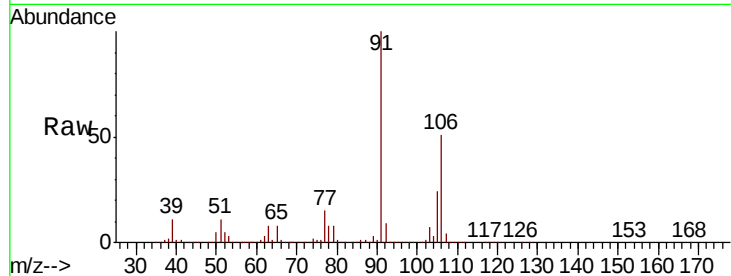
PMW-5

Tot Ion:106 Resp: 5429168

Ion Ratio Lower Upper

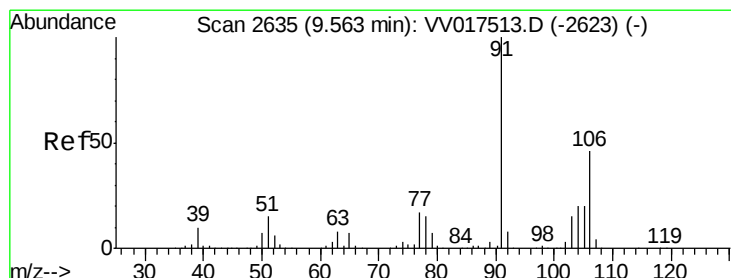
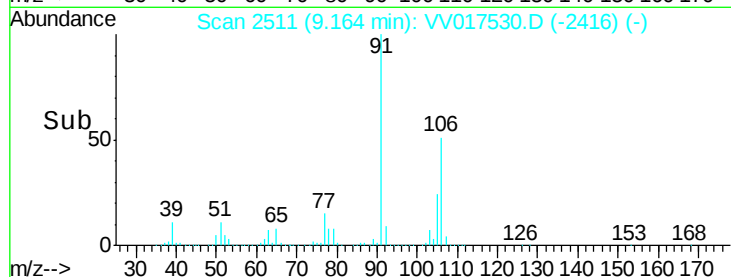
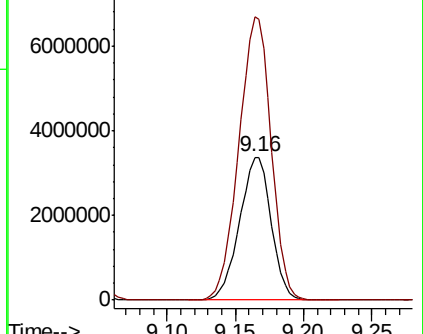
106 100

91 197.9 146.4 271.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 505.053 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV017530.D

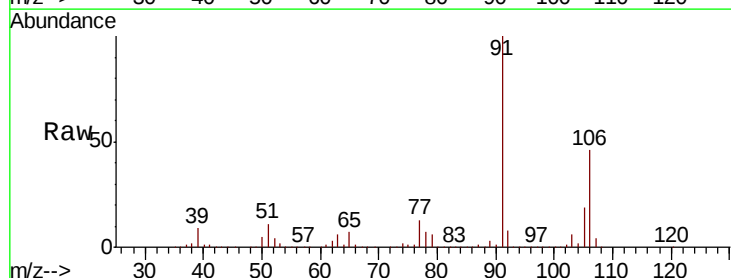
Acq: 17 Jul 2020 17:50

Tgt Ion:106 Resp: 2148520

Ion Ratio Lower Upper

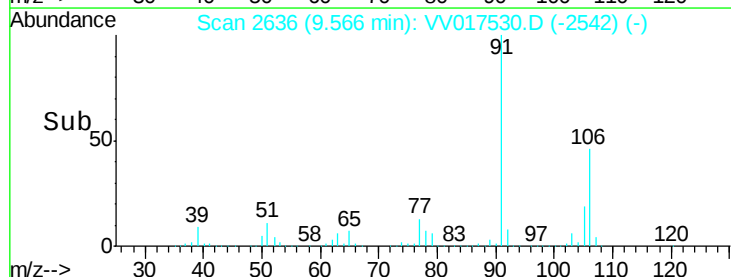
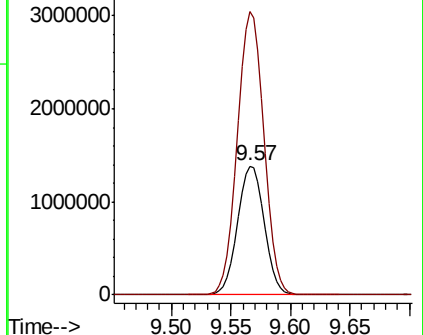
106 100

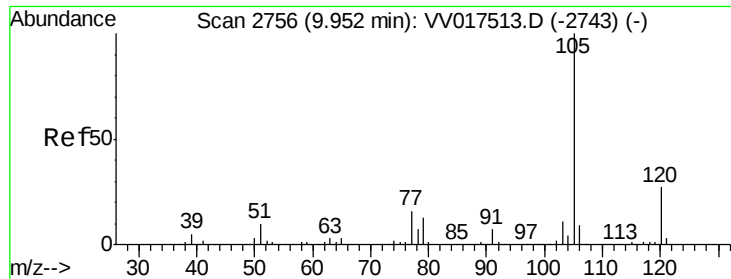
91 219.7 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#56

Isopropylbenzene

Concen: 32.416 ug/L

RT: 9.96 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Instrument :

MSVOA_V

ClientSampleId :

PMW-5

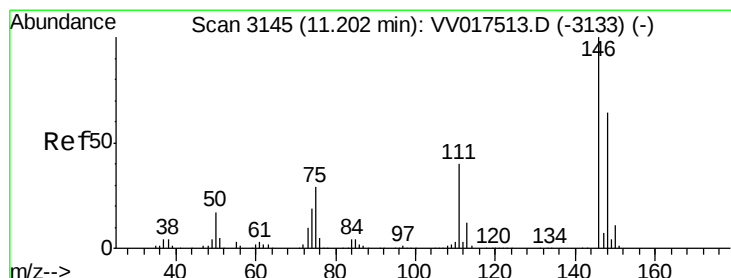
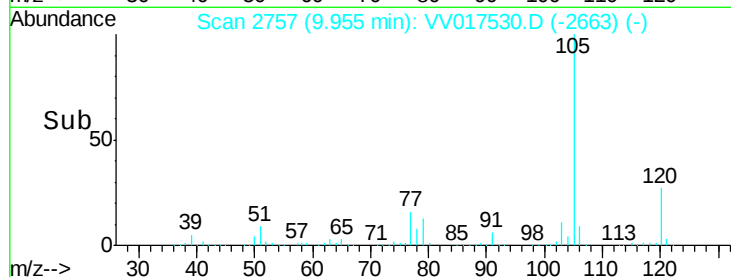
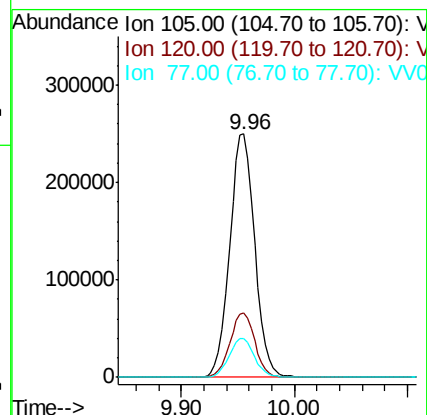
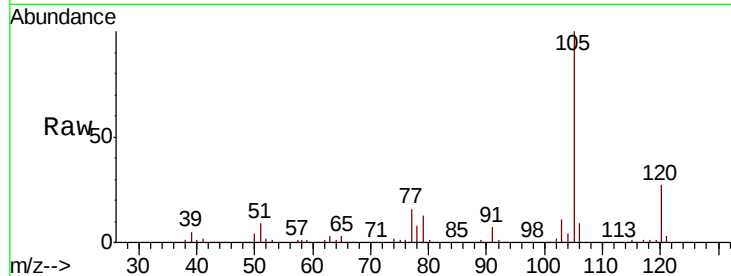
Tot Ion:105 Resp: 383649

Ion Ratio Lower Upper

105 100

120 26.3 21.1 31.7

77 16.3 13.0 19.6



#62

1,3-Dichlorobenzene

Concen: 368.831 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

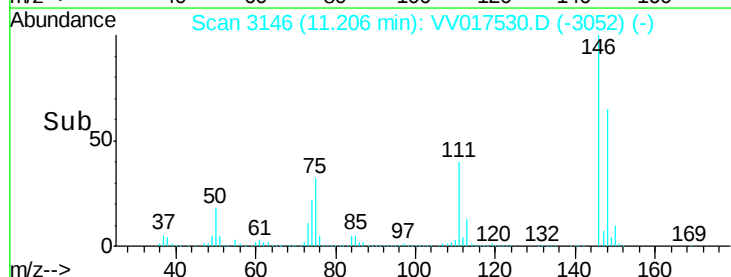
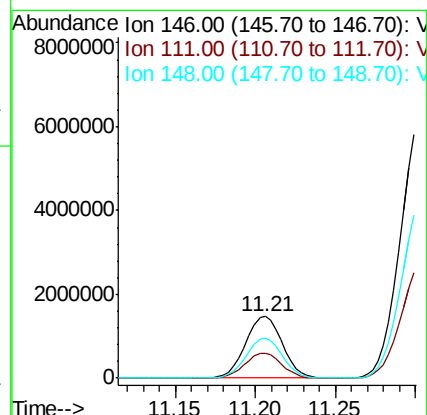
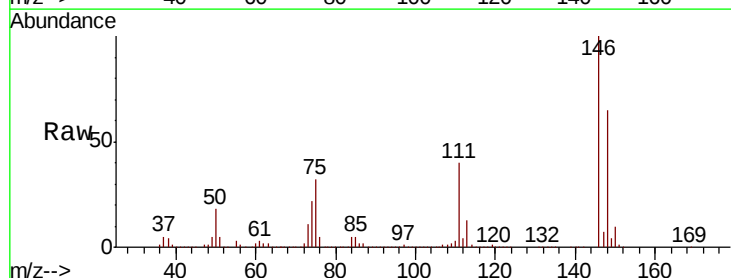
Tgt Ion:146 Resp: 2293132

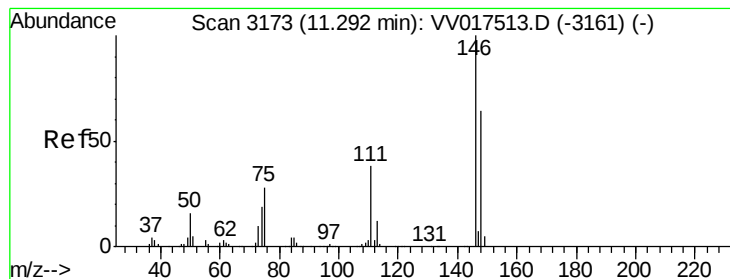
Ion Ratio Lower Upper

146 100

111 40.5 27.2 50.6

148 64.6 44.7 82.9





#63

1,4-Dichlorobenzene

Concen: 1550.186 ug/L

RT: 11.30 min Scan# 3176

Delta R.T. 0.01 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Instrument :

MSVOA_V

ClientSampled :

PMW-5

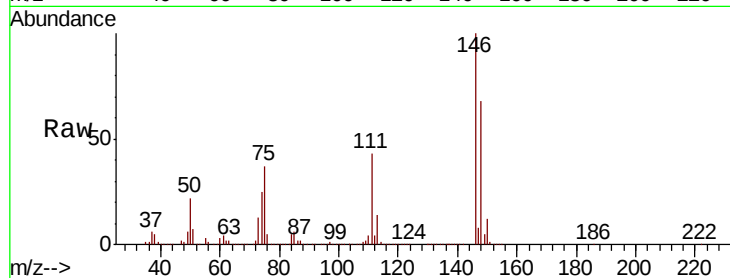
Tot Ion:146 Resp: 9781893

Ion Ratio Lower Upper

146 100

111 43.2 27.2 50.4

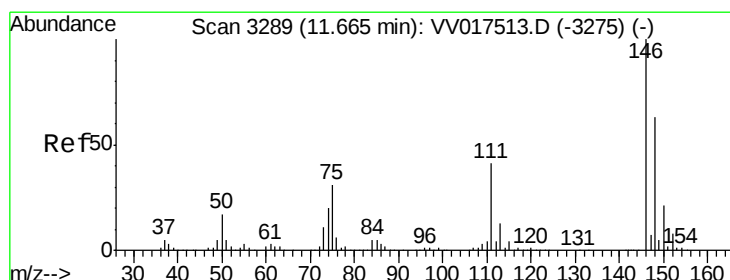
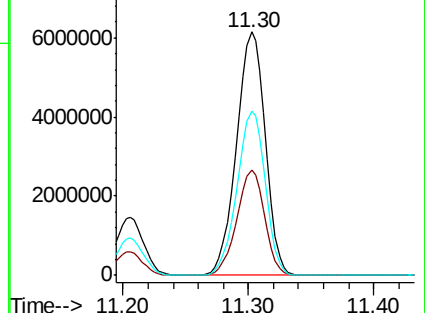
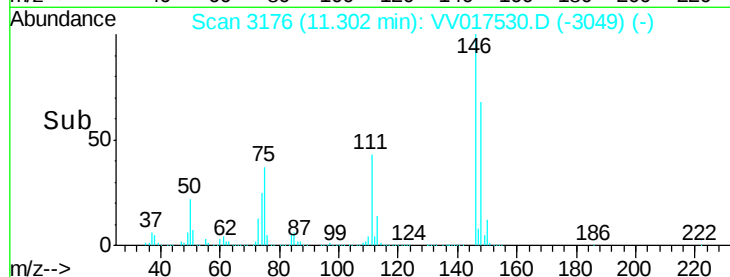
148 67.6 45.4 84.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 587.888 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

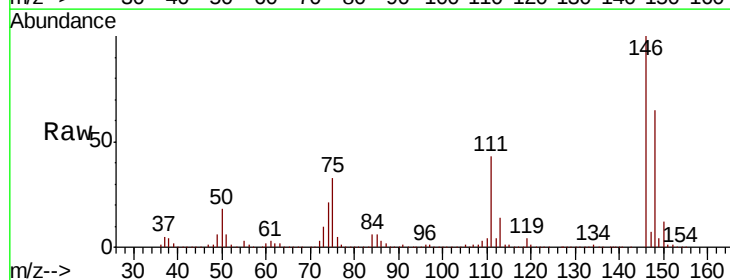
Tgt Ion:146 Resp: 3643598

Ion Ratio Lower Upper

146 100

111 42.7 33.5 50.3

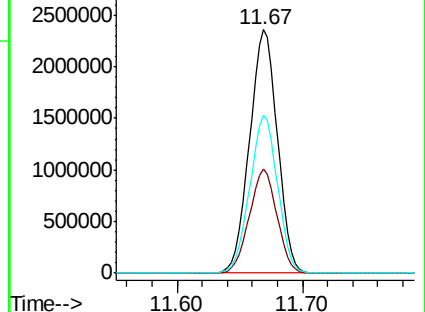
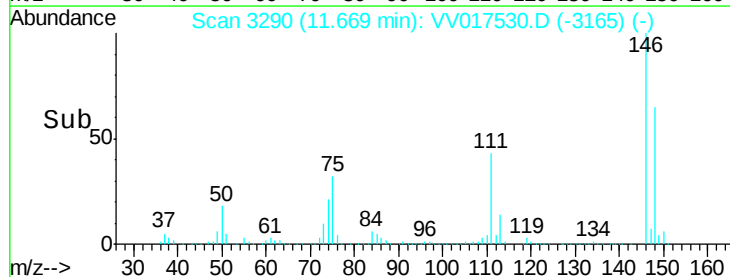
148 64.8 50.6 76.0

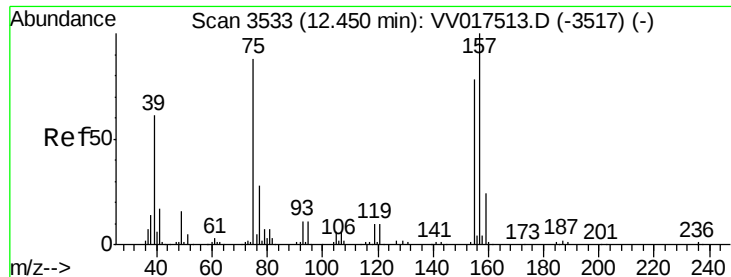


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

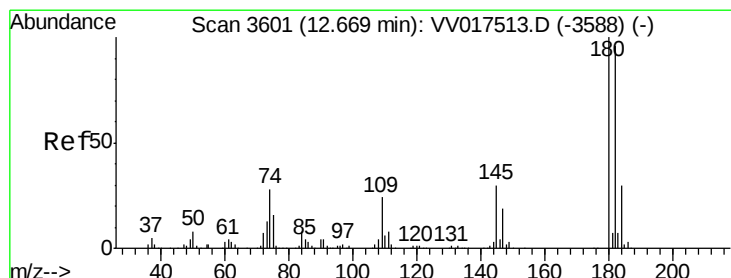
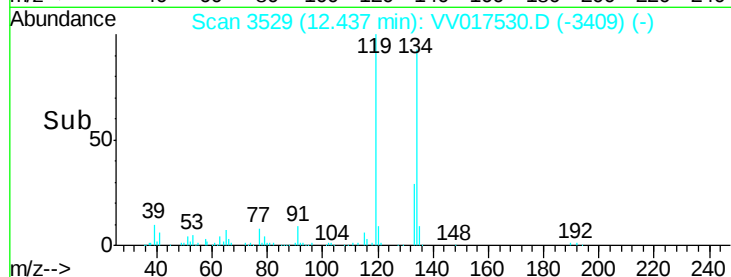
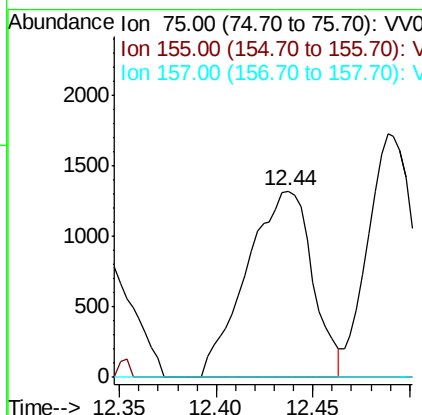
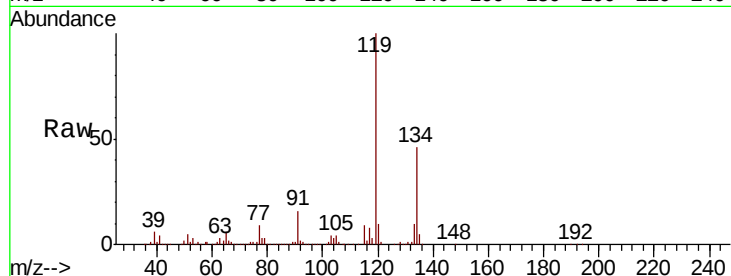




#66
 1,2-Dibromo-3-chloropropane
 Concen: 3.095 ug/L
 RT: 12.44 min Scan# 3529
 Delta R.T. -0.01 min
 Lab File: VV017530.D
 Acq: 17 Jul 2020 17:50

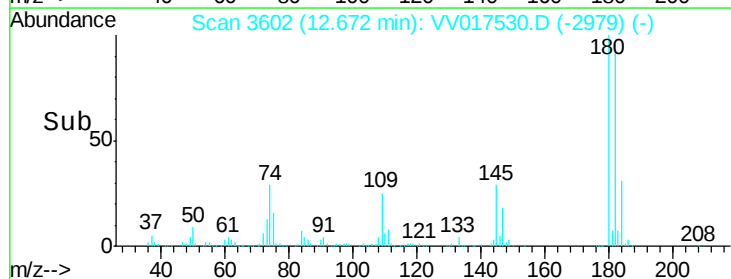
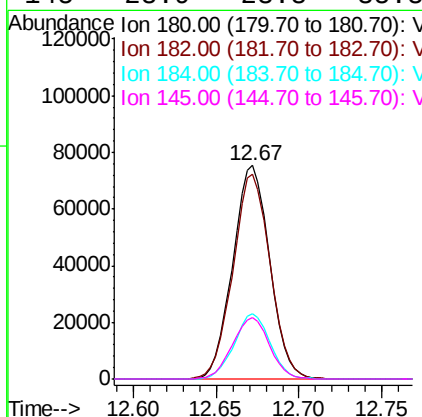
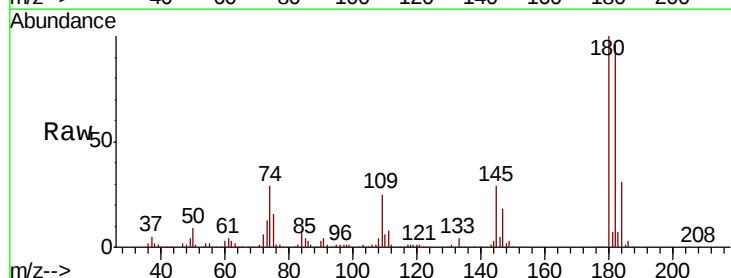
Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-5

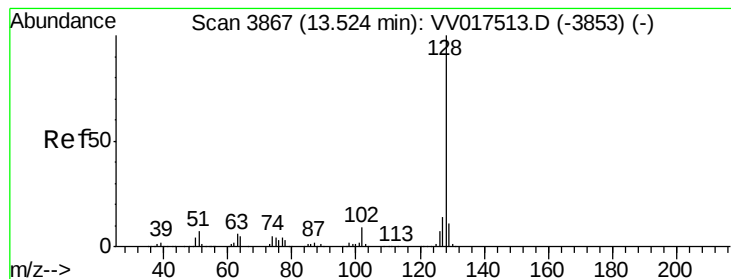
Tot Ion: 75 Resp: 3121
 Ion Ratio Lower Upper
 75 100
 155 0.0 63.4 95.2#
 157 0.0 84.5 126.7#



#67
 1,3,5-Trichlorobenzene
 Concen: 24.976 ug/L
 RT: 12.67 min Scan# 3602
 Delta R.T. 0.00 min
 Lab File: VV017530.D
 Acq: 17 Jul 2020 17:50

Tgt Ion: 180 Resp: 116974
 Ion Ratio Lower Upper
 180 100
 182 96.4 77.0 115.4
 184 29.8 24.0 36.0
 145 28.9 23.8 35.8





#69

Naphthalene

Concen: 127.151 ug/L

RT: 13.53 min Scan# 3870

Delta R.T. 0.01 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

Instrument :

MSVOA_V

ClientSampleId :

PMW-5

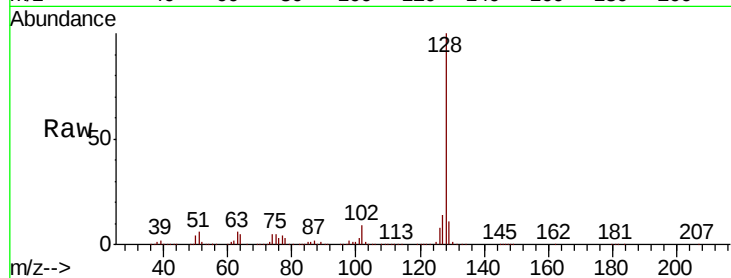
Tot Ion:128 Resp: 1458292

Ion Ratio Lower Upper

128 100

127 13.5 10.7 16.1

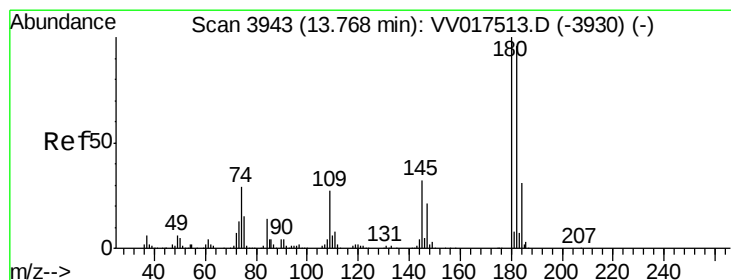
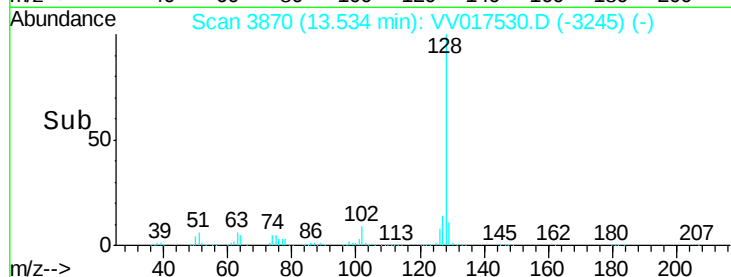
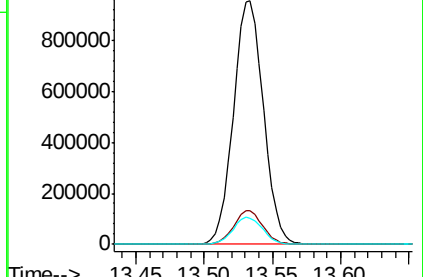
129 11.0 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 2728.273 ug/L

RT: 13.78 min Scan# 3948

Delta R.T. 0.02 min

Lab File: VV017530.D

Acq: 17 Jul 2020 17:50

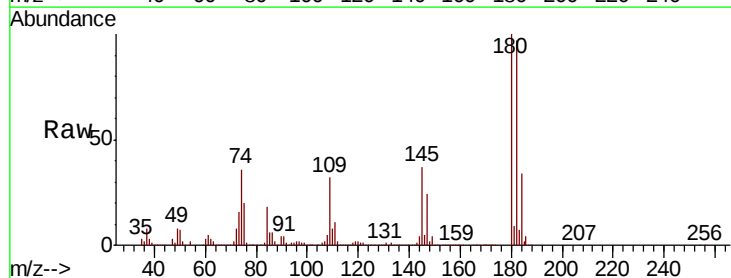
Tgt Ion:180 Resp:11397276

Ion Ratio Lower Upper

180 100

182 96.7 76.3 114.5

145 35.6 26.5 39.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

