

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072120\
 Data File : VV017573.D
 Acq On : 21 Jul 2020 18:55
 Operator : SY/MD
 Sample : L3336-07DL 200X
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-5DL

Quant Time: Jul 22 03:28:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM072120WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jul 22 03:23:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	324600	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	310179	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	157224	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	67468	34.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	68.12%
7) Chloroethane-d5	1.58	69	51380	37.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	75.48%
11) 1,1-Dichloroethene-d2	2.12	63	110617	27.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	55.50%#
21) 2-Butanone-d5	3.91	46	132090	87.17	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	87.17%
24) Chloroform-d	4.38	84	182282	40.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	80.12%
26) 1,2-Dichloroethane-d4	5.05	65	129888	41.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.34%
32) Benzene-d6	5.07	84	335990	40.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.14%
36) 1,2-Dichloropropane-d6	6.09	67	105753	42.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	85.06%
41) Toluene-d8	7.34	98	311712	39.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	79.74%#
43) trans-1,3-Dichloropropene-	7.64	79	50511	35.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.18%
47) 2-Hexanone-d5	8.11	63	100618	88.27	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	88.27%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	150837	42.64	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	85.28%
64) 1,2-Dichlorobenzene-d4	11.65	152	141410	43.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.74%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	2650	1.085 ug/L #	53
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1296	0.648 ug/L #	18
20) cis-1,2-Dichloroethene	3.94	96	37751	15.163 ug/L	100
34) Trichloroethene	5.94	95	46291	18.434 ug/L	99
42) Toluene	7.41	91	725211	72.380 ug/L	99
46) Tetrachloroethene	8.00	164	95369	44.665 ug/L	98
51) Chlorobenzene	8.90	112	12455	1.873 ug/L	95
52) Ethylbenzene	9.04	91	18174	1.621 ug/L	94
53) m,p-Xylene	9.16	106	24323	5.661 ug/L	98
54) o-xylene	9.57	106	9214	2.208 ug/L	98
59) 1,2,3-Trichloropropane	11.21	75	3700	1.206 ug/L	95
62) 1,3-Dichlorobenzene	11.21	146	10802	2.046 ug/L	98
63) 1,4-Dichlorobenzene	11.30	146	49356	9.160 ug/L	98
65) 1,2-Dichlorobenzene	11.67	146	17391	3.249 ug/L	93
67) 1,3,5-Trichlorobenzene	13.28	180	239827	57.545 ug/L	99
68) 1,2,4-trichlorobenzene	13.28	180	239827	64.881 ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	50150	13.564 ug/L	98

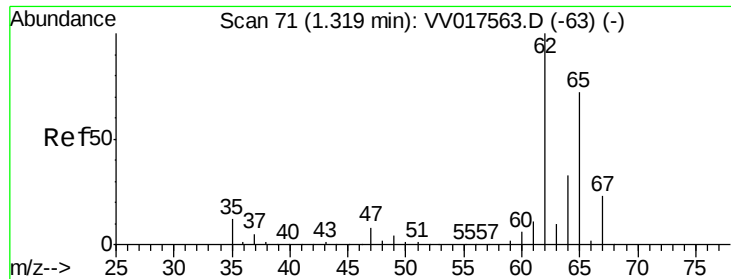
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072120\
Data File : VV017573.D
Acq On : 21 Jul 2020 18:55
Operator : SY/MD
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM072120WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Jul 22 03:23:09 2020
Response via : Initial Calibration

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

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



#5

Vinyl chloride

Concen: 1.085 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017573.D

Acq: 21 Jul 2020 18:55

Instrument :

MSVOA_V

ClientSampled :

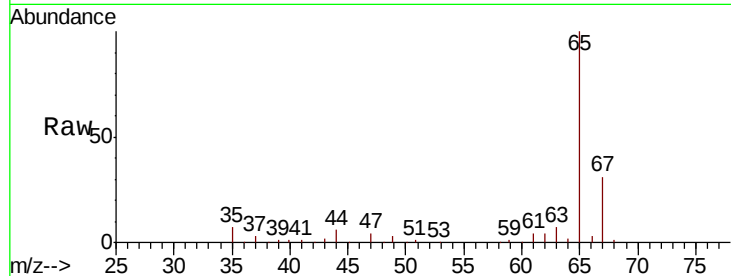
PMW-5DL

Tot Ion: 62 Resp: 2650

Ion Ratio Lower Upper

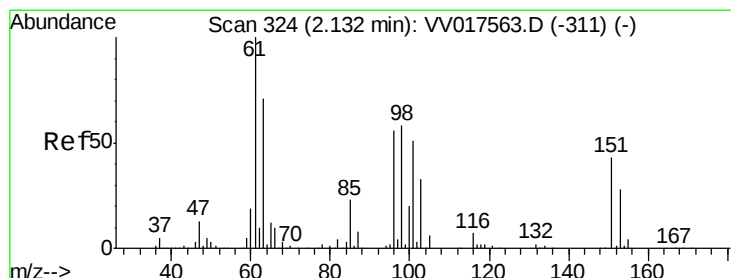
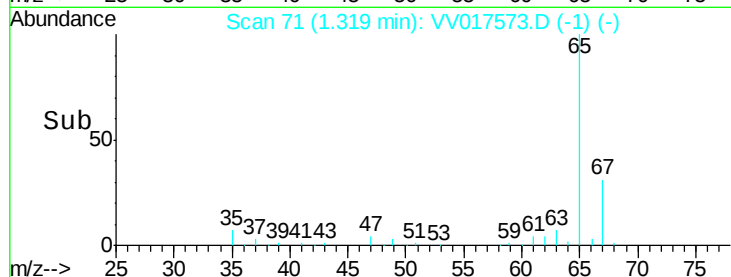
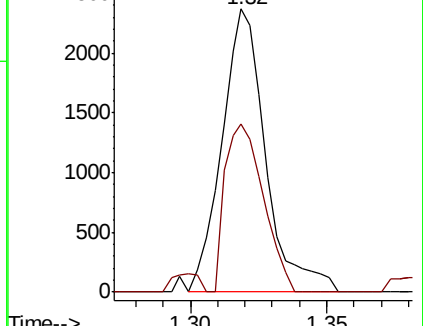
62 100

64 59.3 22.8 42.4#



Abundance Ion 62.00 (61.70 to 62.70): VV017563.D (-63) (-)

Ion 64.00 (63.70 to 64.70): VV017563.D (-63) (-)



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.648 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV017573.D

Acq: 21 Jul 2020 18:55

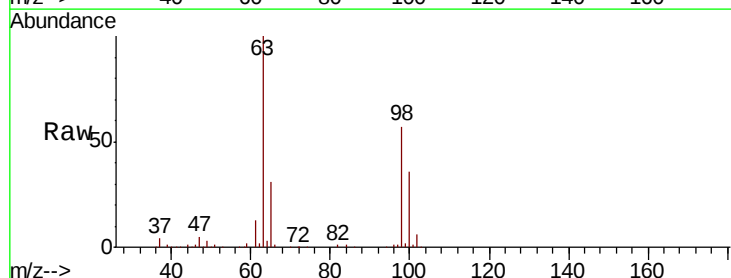
Tgt Ion: 101 Resp: 1296

Ion Ratio Lower Upper

101 100

85 3.1 35.1 52.7#

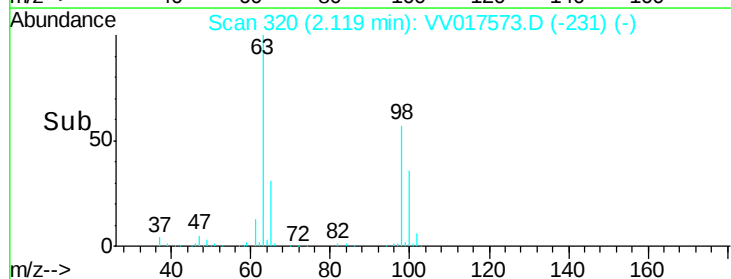
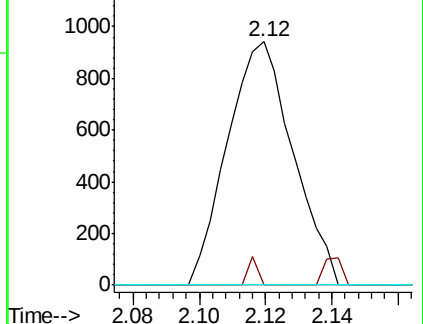
151 0.0 67.0 100.4#

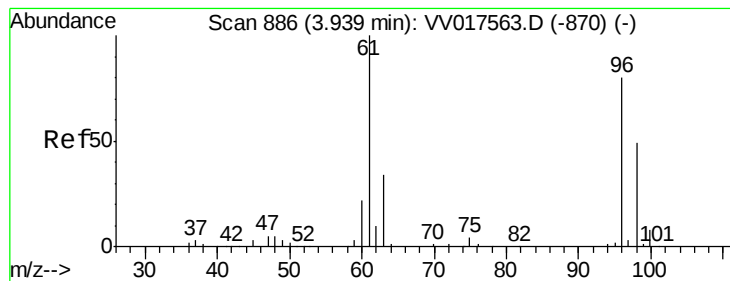


Abundance Ion 101.00 (100.70 to 101.70): VV017563.D (-311) (-)

Ion 85.00 (84.70 to 85.70): VV017563.D (-311) (-)

Ion 151.00 (150.70 to 151.70): VV017563.D (-311) (-)



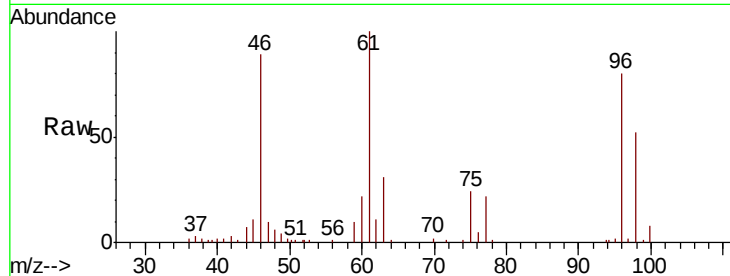


#20

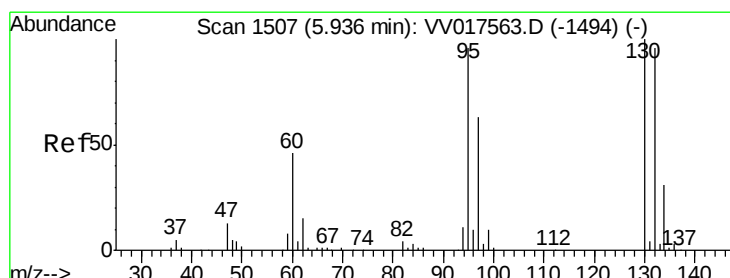
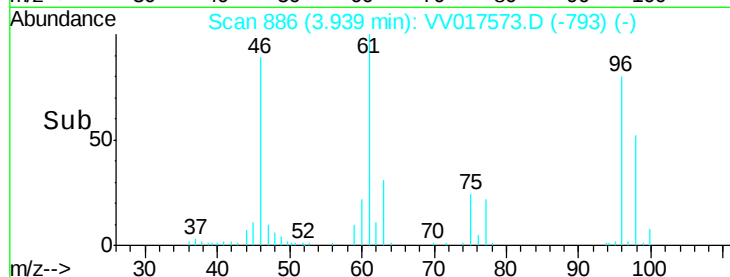
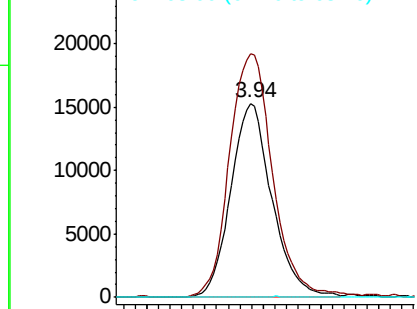
cis-1,2-Dichloroethene
Concen: 15.163 ug/L
RT: 3.94 min Scan# 886
Delta R.T. 0.00 min
Lab File: VV017573.D
Acq: 21 Jul 2020 18:55

Instrument :
MSVOA_V
ClientSampled :
PMW-5DL

Tot Ion: 96 Resp: 37751
Ion Ratio Lower Upper
96 100
61 125.6 87.8 163.2
68 0.0 0.0 0.0



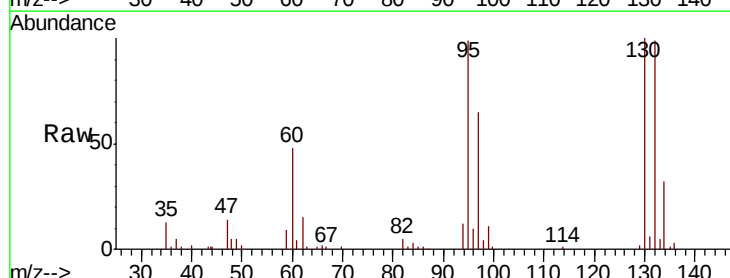
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 68.00 (67.70 to 68.70): VV0



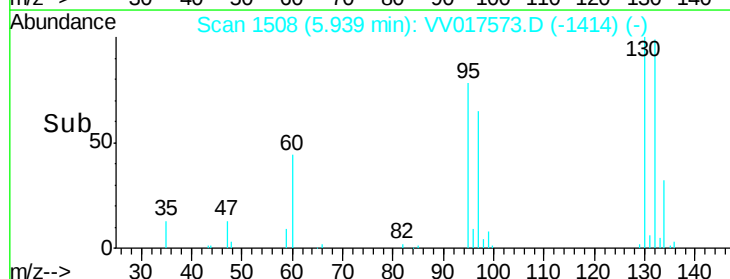
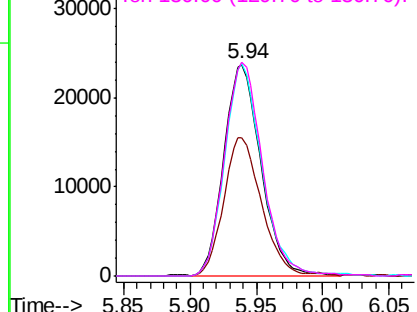
#34

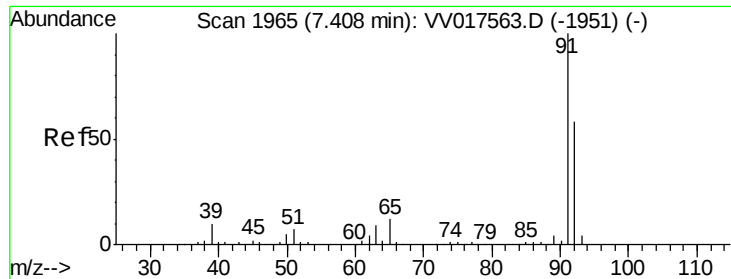
Trichloroethene
Concen: 18.434 ug/L
RT: 5.94 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VV017573.D
Acq: 21 Jul 2020 18:55

Tgt Ion: 95 Resp: 46291
Ion Ratio Lower Upper
95 100
97 65.3 45.8 85.2
132 100.4 70.3 130.5
130 101.0 72.9 135.3



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





#42

Toluene

Concen: 72.380 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV017573.D

Acq: 21 Jul 2020 18:55

Instrument :

MSVOA_V

ClientSampleId :

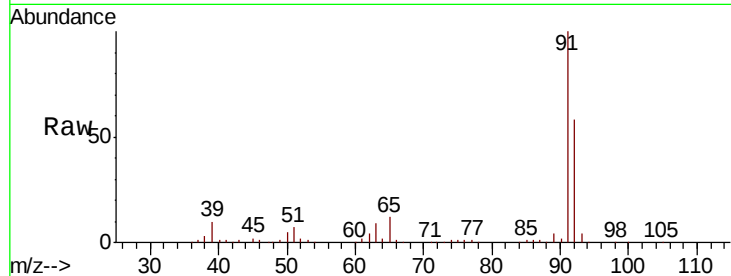
PMW-5DL

Tot Ion: 91 Resp: 725211

Ion Ratio Lower Upper

91 100

92 58.5 40.4 75.0

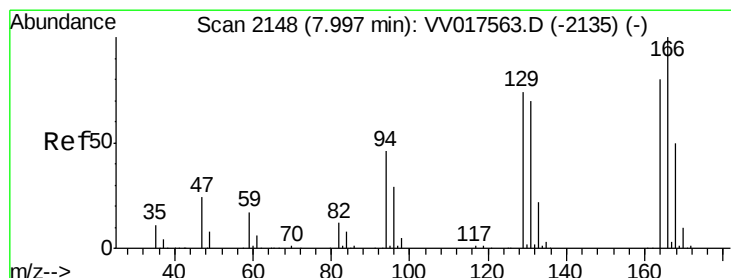
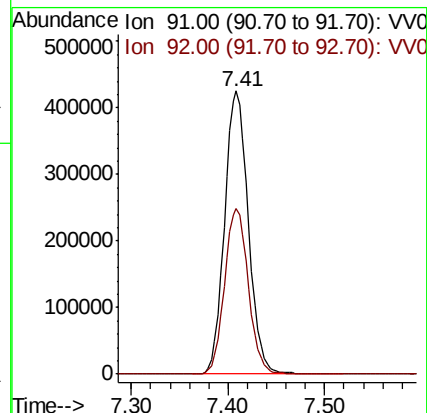
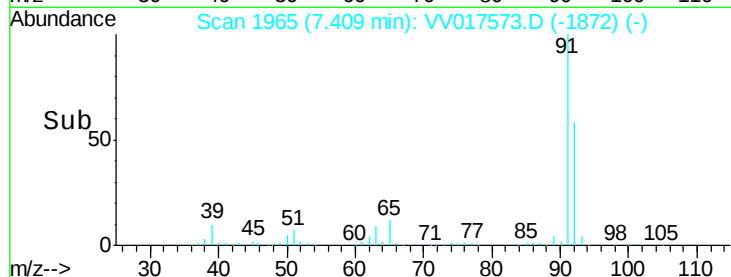


Abundance Ion 91.00 (90.70 to 91.70): VV017563.D (-1951) (-)

Ion 92.00 (91.70 to 92.70): VV017563.D (-1951) (-)

7.41

Time-->



#46

Tetrachloroethene

Concen: 44.665 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV017573.D

Acq: 21 Jul 2020 18:55

Tgt Ion: 164 Resp: 95369

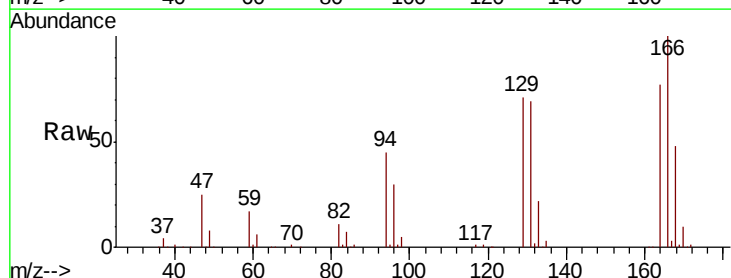
Ion Ratio Lower Upper

164 100

129 91.8 64.3 119.5

131 89.9 61.5 114.1

166 129.3 87.2 162.0



Abundance Ion 164.00 (163.70 to 164.70): VV017563.D (-2135) (-)

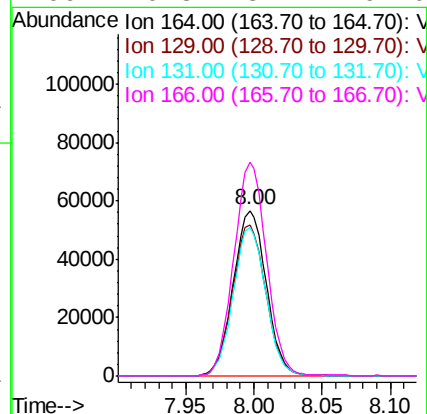
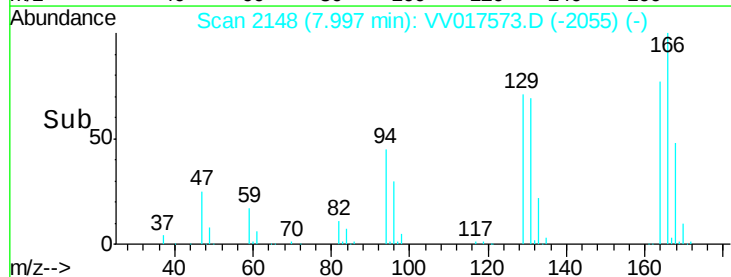
Ion 129.00 (128.70 to 129.70): VV017563.D (-2135) (-)

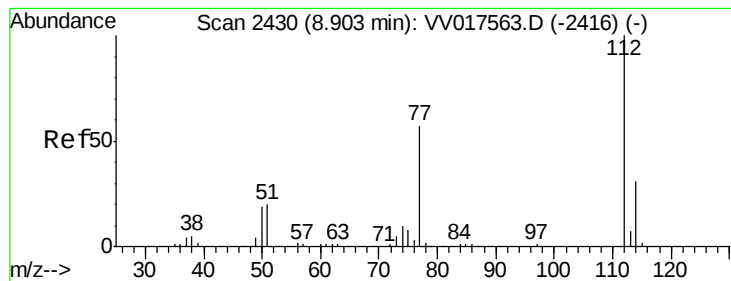
Ion 131.00 (130.70 to 131.70): VV017563.D (-2135) (-)

Ion 166.00 (165.70 to 166.70): VV017563.D (-2135) (-)

8.00

Time-->





#51

Chlorobenzene

Concen: 1.873 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV017573.D

Acq: 21 Jul 2020 18:55

Instrument :

MSVOA_V

ClientSampleId :

PMW-5DL

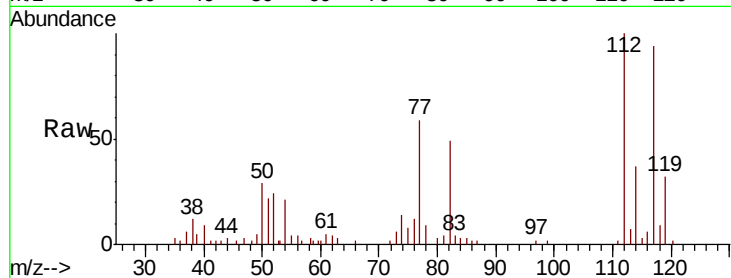
Tot Ion:112 Resp: 12455

Ion Ratio Lower Upper

112 100

114 36.6 21.9 40.7

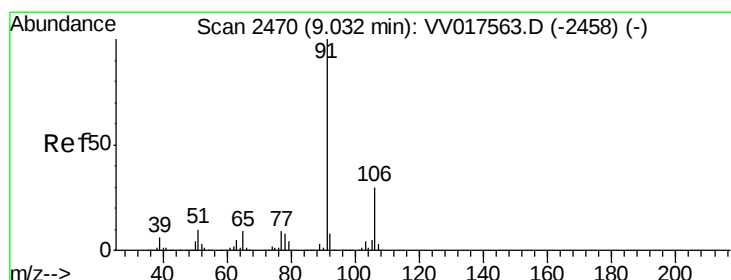
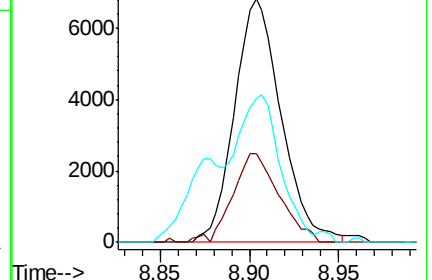
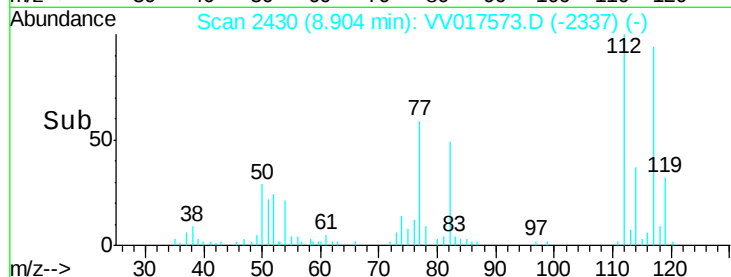
77 58.9 46.1 69.1



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: 1.621 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV017573.D

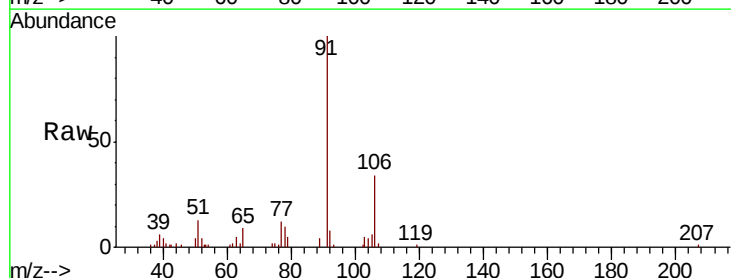
Acq: 21 Jul 2020 18:55

Tgt Ion: 91 Resp: 18174

Ion Ratio Lower Upper

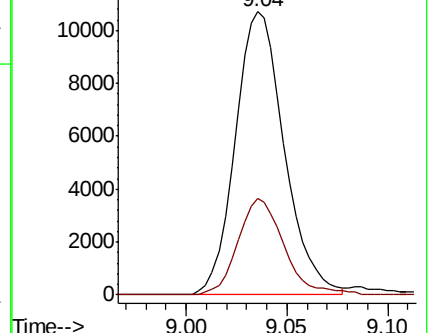
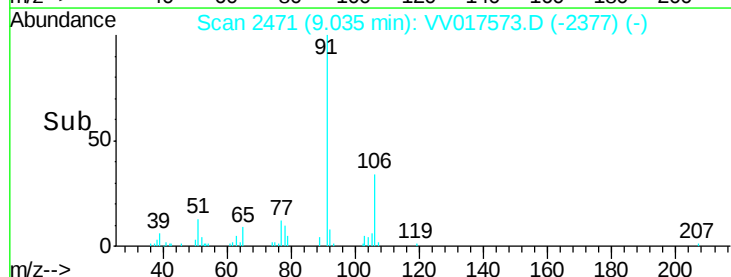
91 100

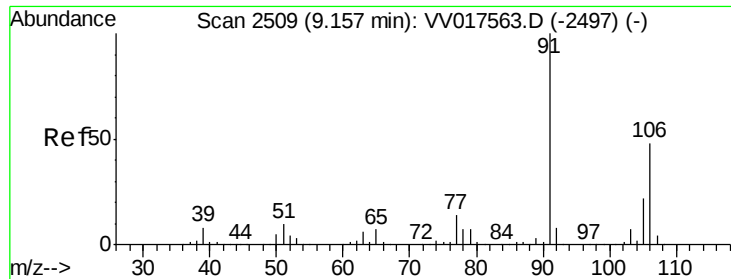
106 33.9 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 5.661 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV017573.D

Acq: 21 Jul 2020 18:55

Instrument :

MSVOA_V

ClientSampleId :

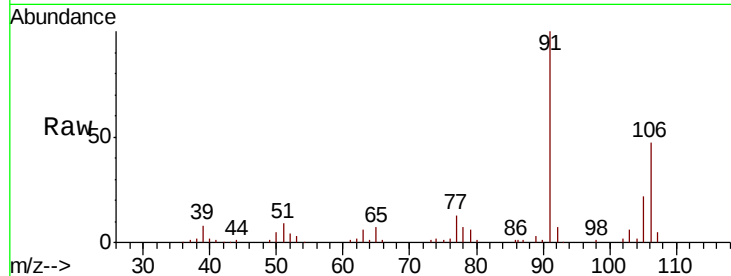
PMW-5DL

Tot Ion:106 Resp: 24323

Ion Ratio Lower Upper

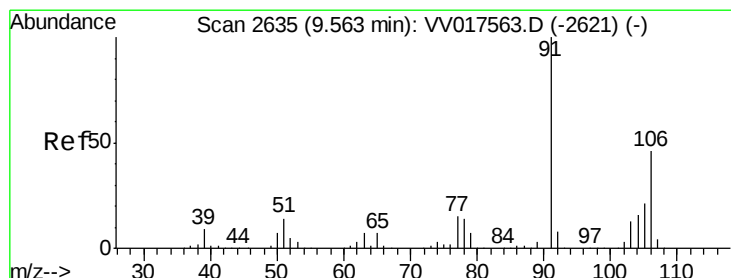
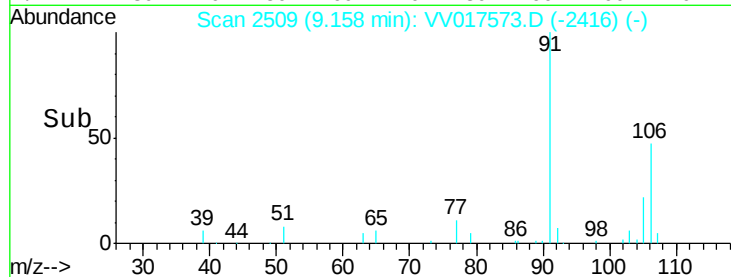
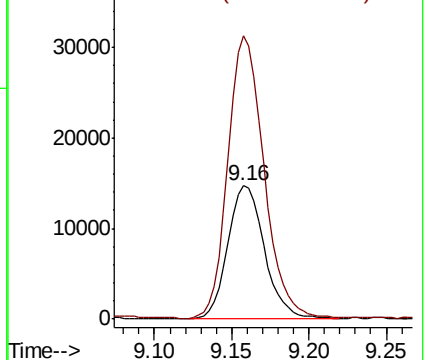
106 100

91 212.7 146.2 271.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 2.208 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV017573.D

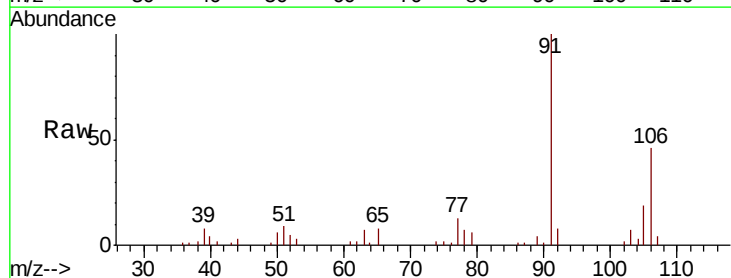
Acq: 21 Jul 2020 18:55

Tgt Ion:106 Resp: 9214

Ion Ratio Lower Upper

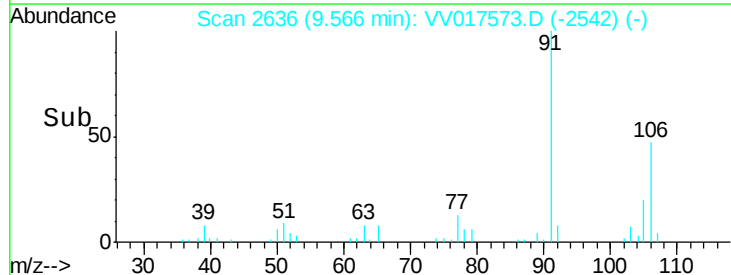
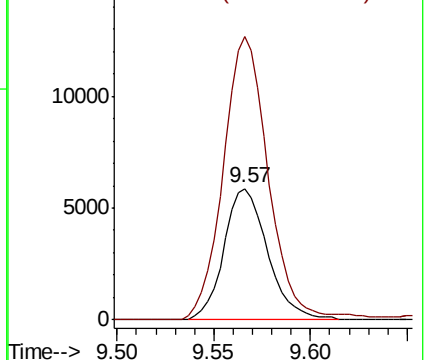
106 100

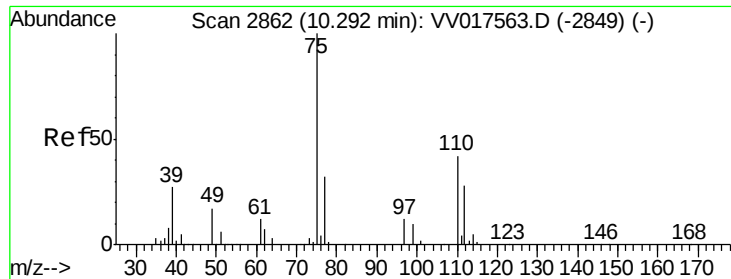
91 215.9 153.6 285.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

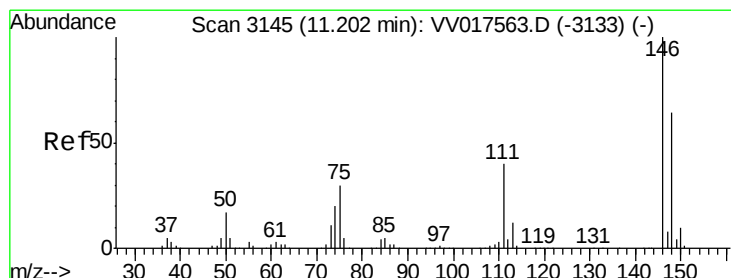
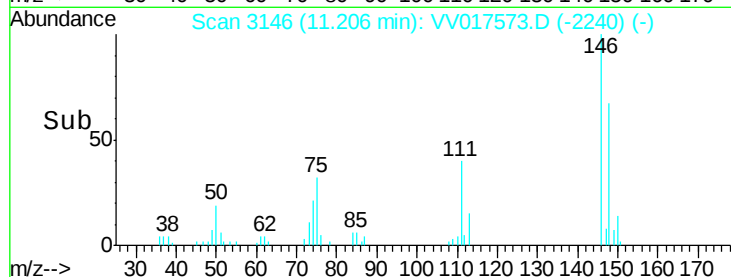
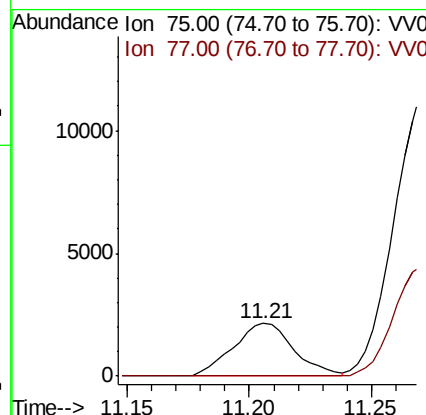
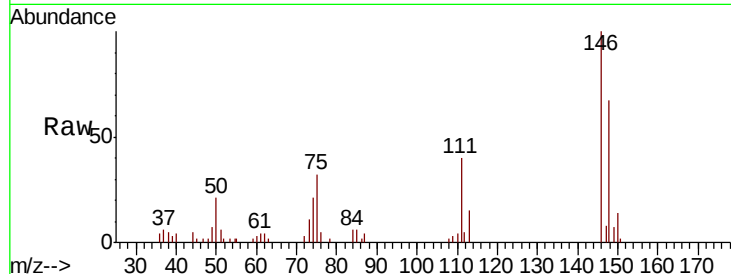




#59
 1,2,3-Trichloropropane
 Concen: 1.206 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.91 min
 Lab File: VV017573.D
 Acq: 21 Jul 2020 18:55

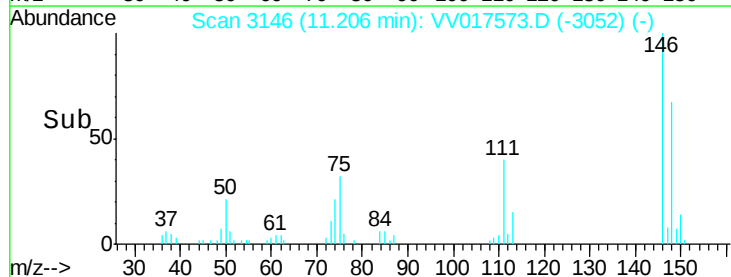
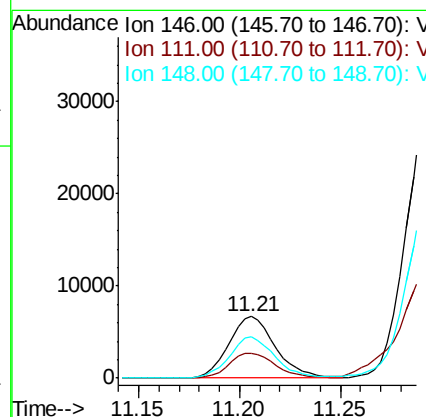
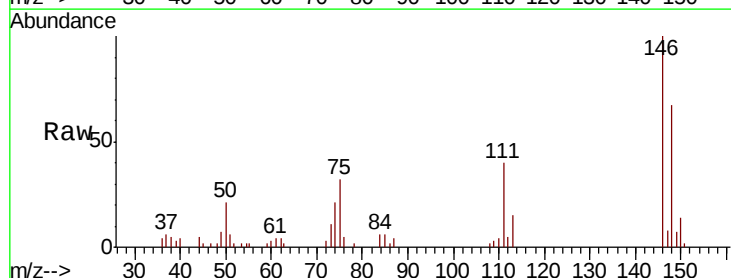
Instrument :
 MSVOA_V
 ClientSampled :
 PMW-5DL

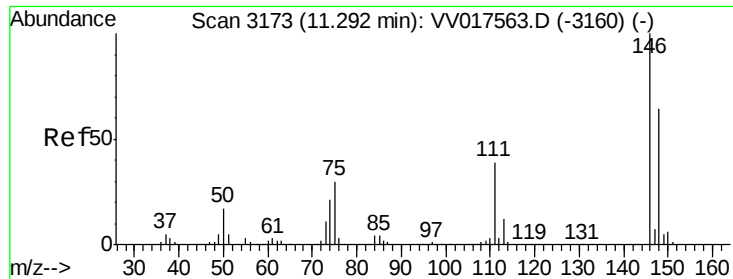
Tot Ion: 75 Resp: 3700
 Ion Ratio Lower Upper
 75 100
 77 29.7 25.9 38.9



#62
 1,3-Dichlorobenzene
 Concen: 2.046 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV017573.D
 Acq: 21 Jul 2020 18:55

Tgt Ion: 146 Resp: 10802
 Ion Ratio Lower Upper
 146 100
 111 39.9 28.2 52.4
 148 66.6 44.7 82.9





#63

1,4-Dichlorobenzene

Concen: 9.160 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV017573.D

Acq: 21 Jul 2020 18:55

Instrument :

MSVOA_V

ClientSampleId :

PMW-5DL

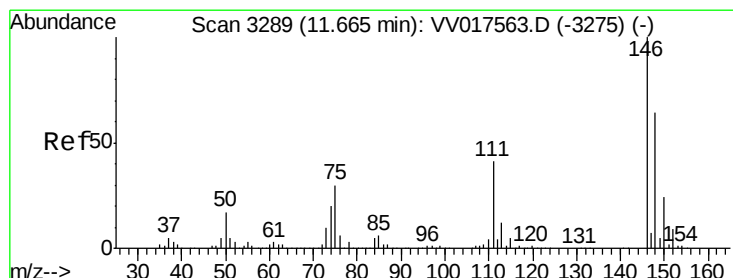
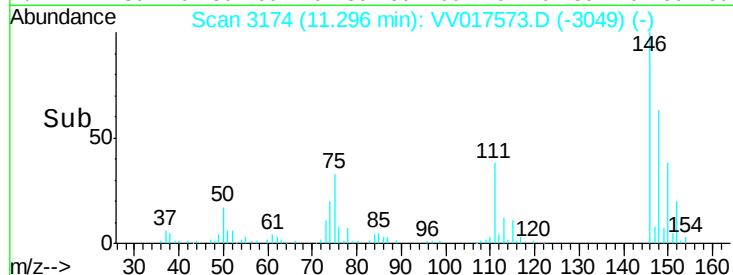
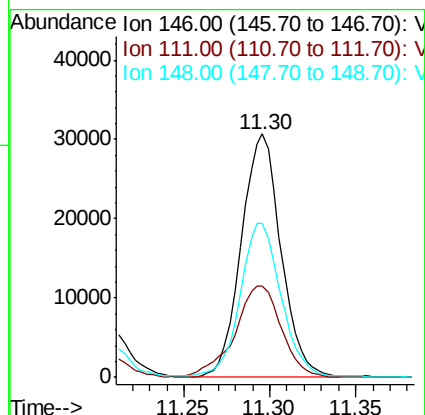
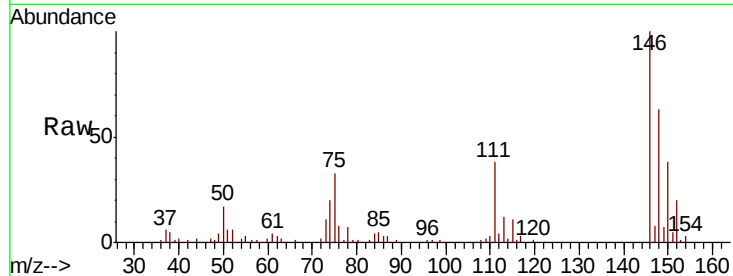
Tot Ion:146 Resp: 49356

Ion Ratio Lower Upper

146 100

111 37.8 27.3 50.7

148 63.1 45.1 83.9



#65

1,2-Dichlorobenzene

Concen: 3.249 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV017573.D

Acq: 21 Jul 2020 18:55

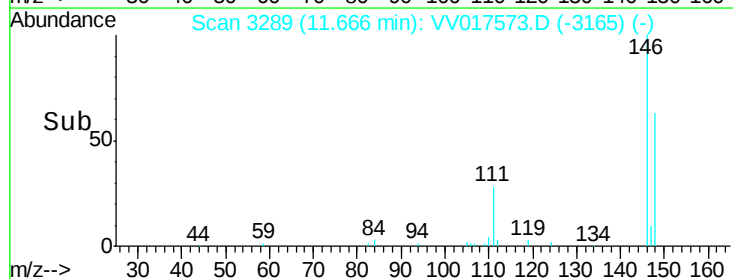
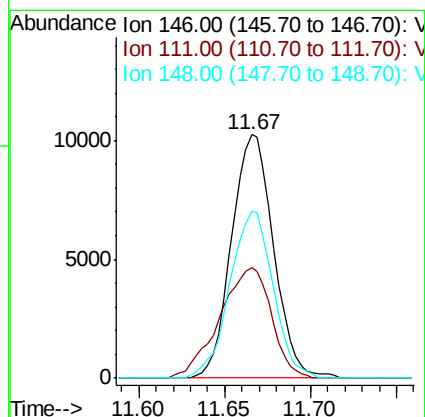
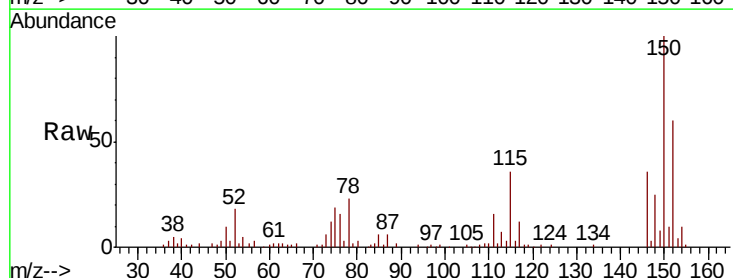
Tgt Ion:146 Resp: 17391

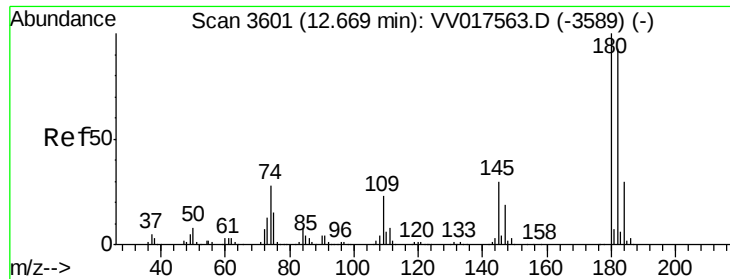
Ion Ratio Lower Upper

146 100

111 45.5 32.9 49.3

148 68.6 51.0 76.4

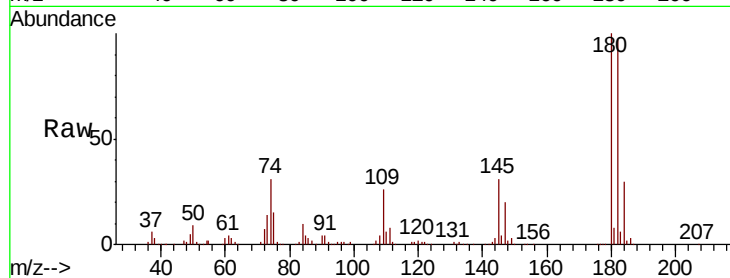




#67
 1,3,5-Trichlorobenzene
 Concen: 57.545 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.61 min
 Lab File: VV017573.D
 Acq: 21 Jul 2020 18:55

Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-5DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.7	115.1
184	30.1	24.5	36.7
145	30.7	24.2	36.2



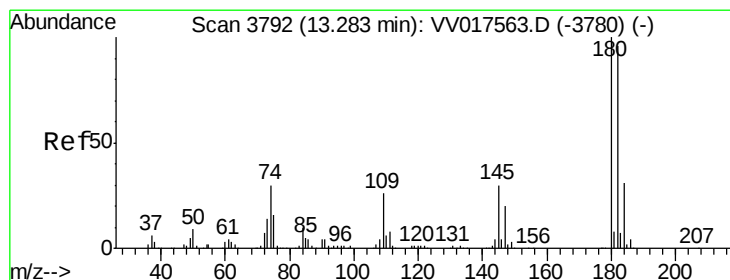
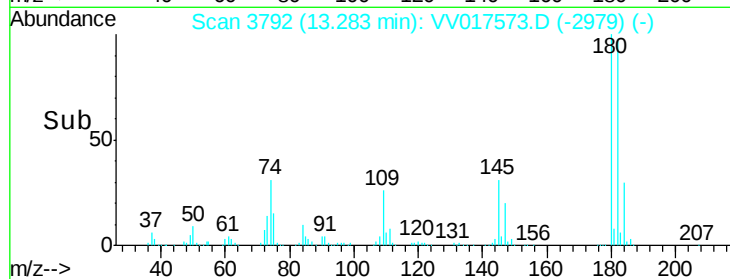
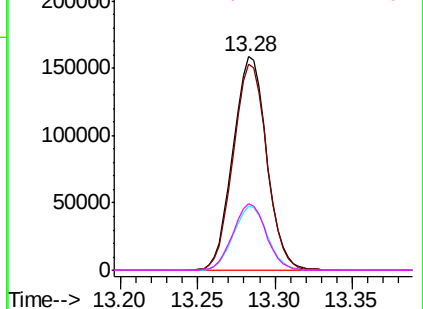
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

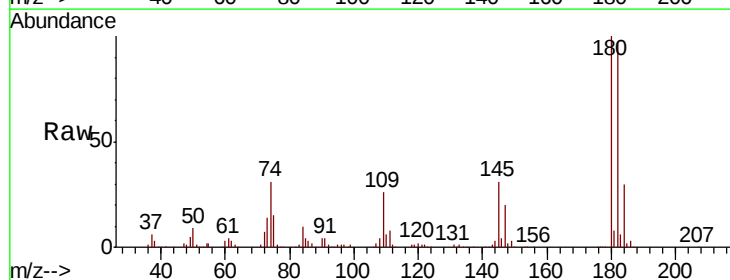
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 64.881 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV017573.D
 Acq: 21 Jul 2020 18:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.2	114.4
145	30.7	24.1	36.1

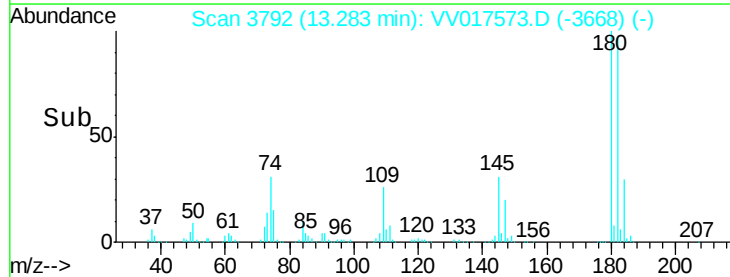
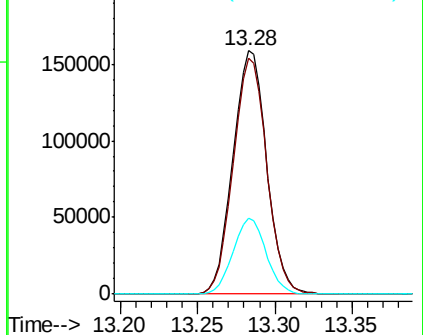


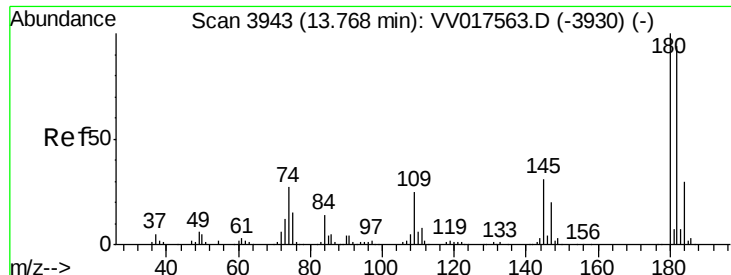
Abundance

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





#70

1,2,3-Trichlorobenzene

Concen: 13.564 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VV017573.D

Acq: 21 Jul 2020 18:55

Instrument :

MSVOA_V

ClientSampleId :

PMW-5DL

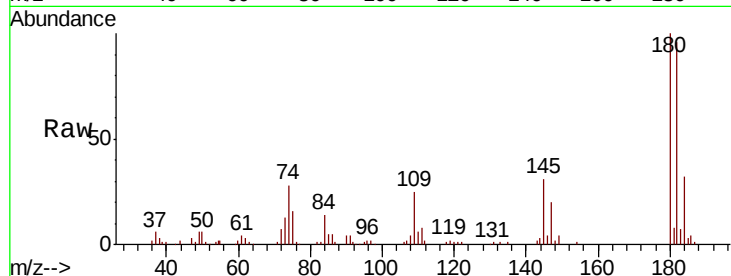
Tot Ion:180 Resp: 50150

Ion Ratio Lower Upper

180 100

182 97.3 75.8 113.8

145 32.2 25.5 38.3



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

