

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092420\
 Data File : VV018432.D
 Acq On : 24 Sep 2020 16:21
 Operator : SY/MD
 Sample : L4109-14
 Misc : 6.20g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3X6

Quant Time: Sep 25 06:40:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM090920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 25 04:36:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	437247	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.88	117	432242	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.28	152	230265	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	118057	33.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	66.26%
7) Chloroethane-d5	1.58	69	97649	33.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	66.98%#
11) 1,1-Dichloroethene-d2	2.10	63	181303	27.74	ug/L	-0.02
Spiked Amount	50.000	Range	60 - 125	Recovery	=	55.48%#
21) 2-Butanone-d5	3.93	46	145208	66.58	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	66.58%
24) Chloroform-d	4.37	84	260772	42.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.36%
26) 1,2-Dichloroethane-d4	5.05	65	175923	44.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.78%
32) Benzene-d6	5.07	84	543171	43.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.80%
36) 1,2-Dichloropropane-d6	6.09	67	179669	45.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.40%
41) Toluene-d8	7.34	98	524229	46.49	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.98%
43) trans-1,3-Dichloropropene-	7.65	79	92675	46.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.78%
47) 2-Hexanone-d5	8.14	63	167780	112.66	ug/L	0.04
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.66%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	254533	51.58	ug/L	0.02
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.16%
64) 1,2-Dichlorobenzene-d4	11.65	152	235952	49.89	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.78%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
19) 1,1-Dichloroethane	3.21	63	7176	1.283	ug/L	97
20) cis-1,2-Dichloroethene	3.93	96	98685	31.202	ug/L	99
29) Cyclohexane	4.69	56	464846	93.132	ug/L	99
30) 1,1,1-Trichloroethane	4.63	97	657896	131.151	ug/L	99
34) Trichloroethene	5.94	95	56771	16.863	ug/L	98
35) Methylcyclohexane	6.15	83	14183	2.798	ug/L	86
42) Toluene	7.41	91	11936649	912.698	ug/L	91
46) Tetrachloroethene	8.00	164	20222	7.661	ug/L	99
51) Chlorobenzene	8.91	112	20961	2.468	ug/L	97
52) Ethylbenzene	9.04	91	2548223	178.466	ug/L	99
53) m,p-Xylene	9.16	106	4083649	766.237	ug/L	89
54) o-xylene	9.57	106	1812206	352.956	ug/L	96
56) Isopropylbenzene	9.96	105	2296601	165.969	ug/L	99
62) 1,3-Dichlorobenzene	11.21	146	21944	3.205	ug/L #	67
63) 1,4-Dichlorobenzene	11.30	146	25651	3.645	ug/L #	73
65) 1,2-Dichlorobenzene	11.67	146	155008	22.397	ug/L	95
68) 1,2,4-trichlorobenzene	13.29	180	22075	4.592	ug/L #	69

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QLast Update : Fri Sep 25 04:36:20 2020
Response via : Initial Calibration

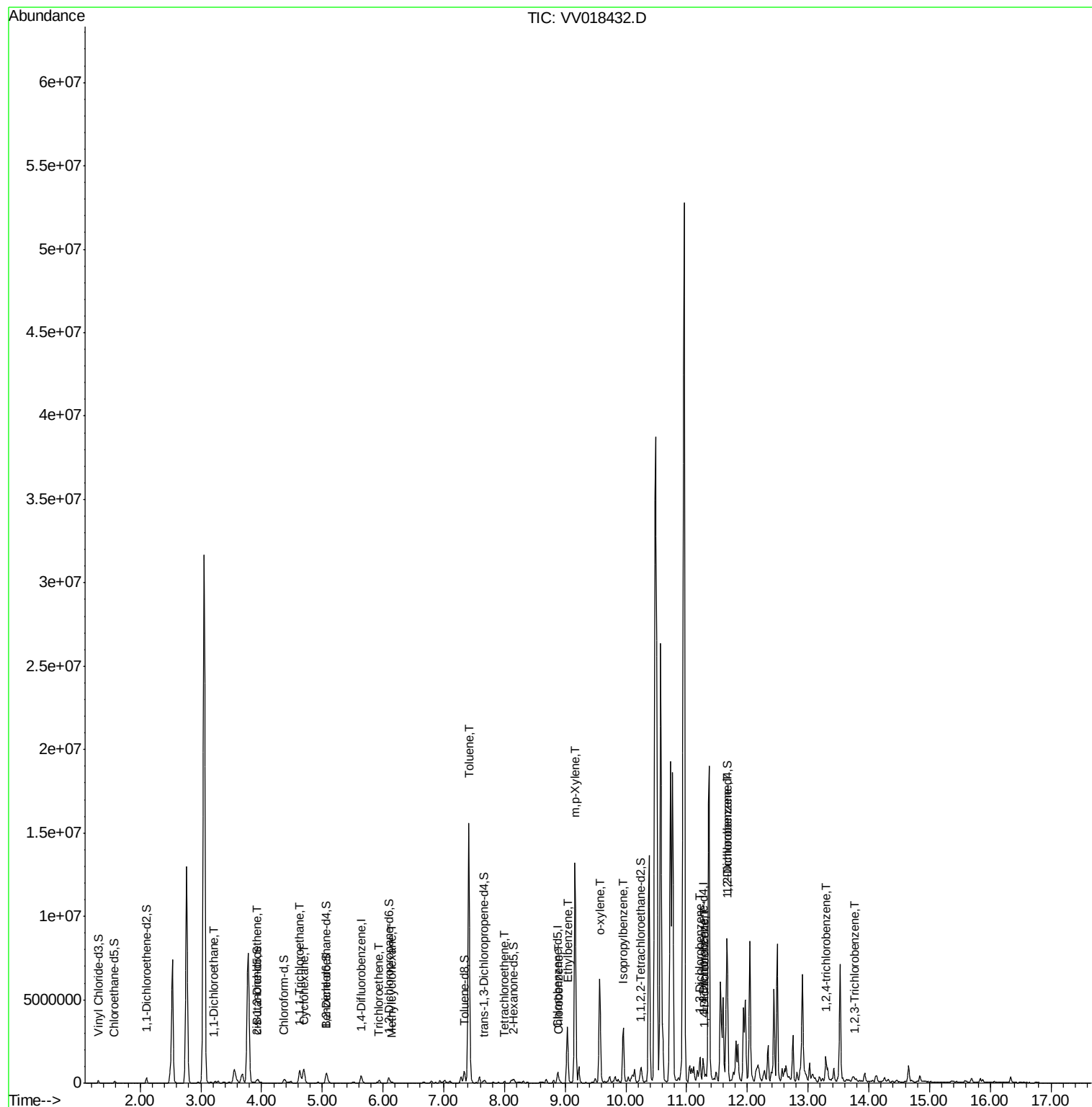
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,3-Trichlorobenzene	13.77	180	13981	2.953	ug/L #	83

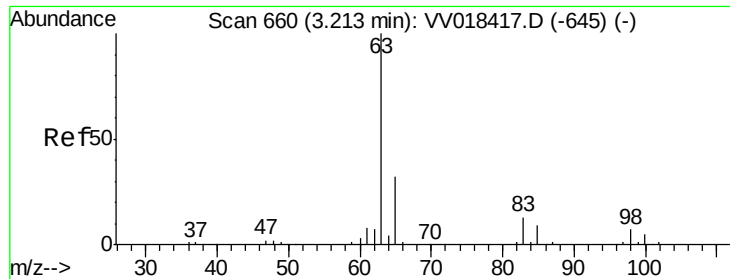
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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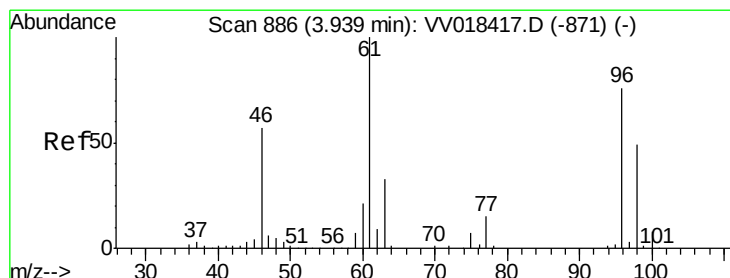
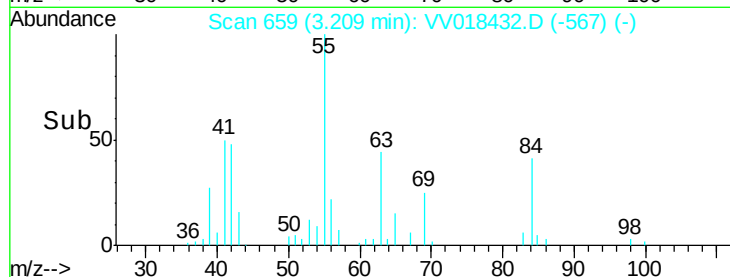
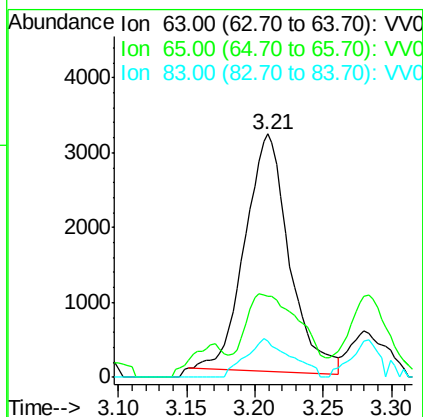
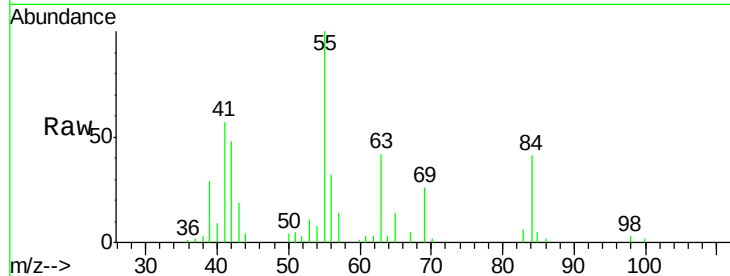




#19
 1,1-Dichloroethane
 Concen: 1.283 ug/L
 RT: 3.21 min Scan# 659
 Delta R.T. -0.00 min
 Lab File: VV018432.D
 Acq: 24 Sep 2020 16:21

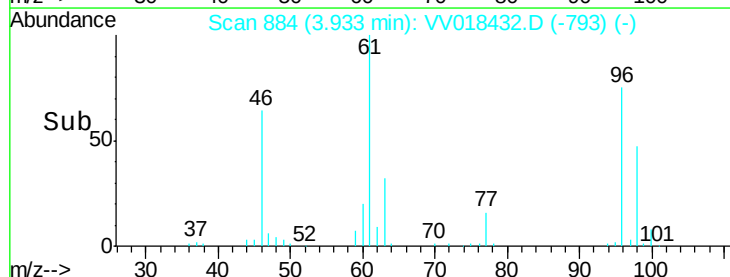
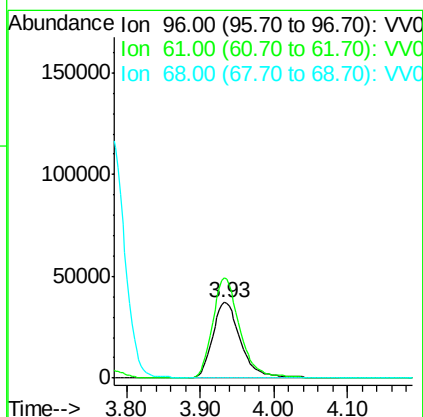
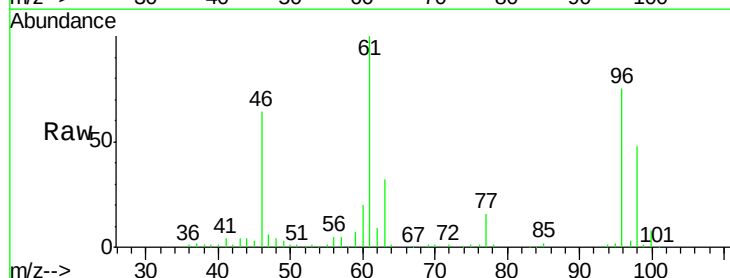
Instrument :
 MSVOA_V
 ClientSampled :
 BG3X6

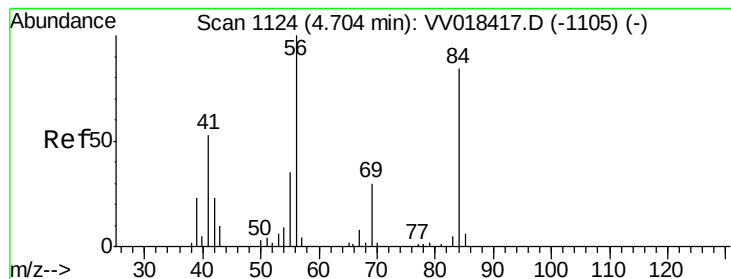
Tot Ion: 63 Resp: 7176
 Ion Ratio Lower Upper
 63 100
 65 33.4 22.5 41.7
 83 14.8 9.3 17.3



#20
 cis-1,2-Dichloroethene
 Concen: 31.202 ug/L
 RT: 3.93 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: VV018432.D
 Acq: 24 Sep 2020 16:21

Tgt Ion: 96 Resp: 98685
 Ion Ratio Lower Upper
 96 100
 61 133.0 93.6 173.8
 68 0.0 0.0 0.0





#29

Cyclohexane

Concen: 93.132 ug/L

RT: 4.69 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VV018432.D

Acq: 24 Sep 2020 16:21

Instrument :

MSVOA_V

ClientSampleId :

BG3X6

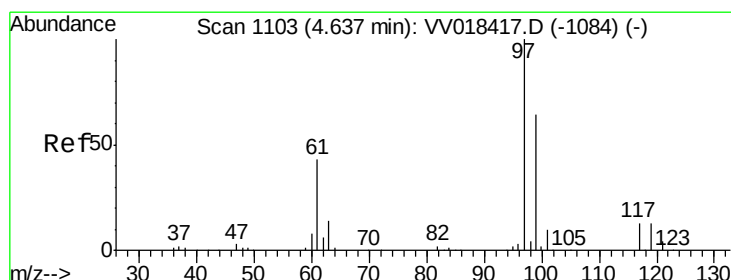
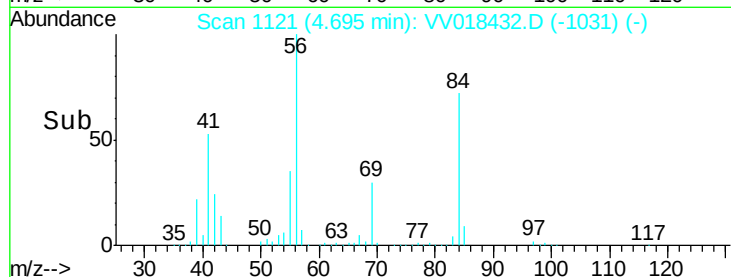
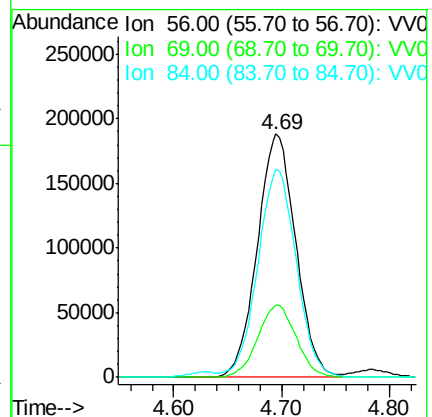
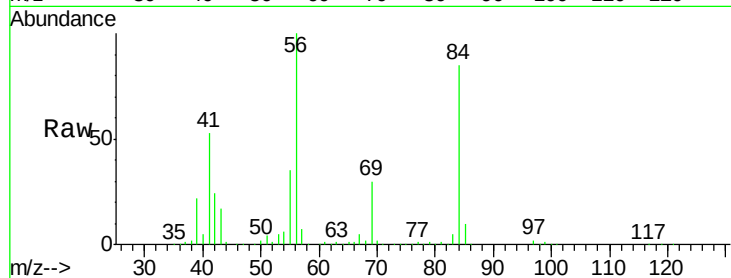
Tot Ion: 56 Resp: 464846

Ion Ratio Lower Upper

56 100

69 29.8 24.2 36.2

84 85.8 68.3 102.5



#30

1,1,1-Trichloroethane

Concen: 131.151 ug/L

RT: 4.63 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VV018432.D

Acq: 24 Sep 2020 16:21

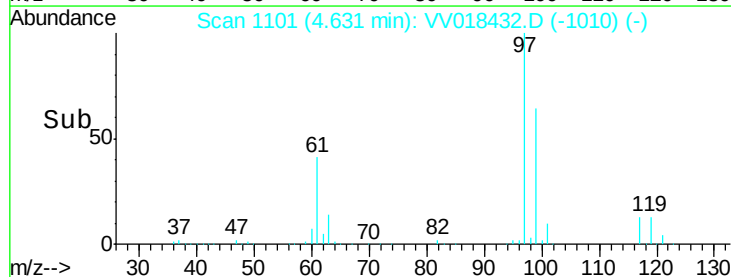
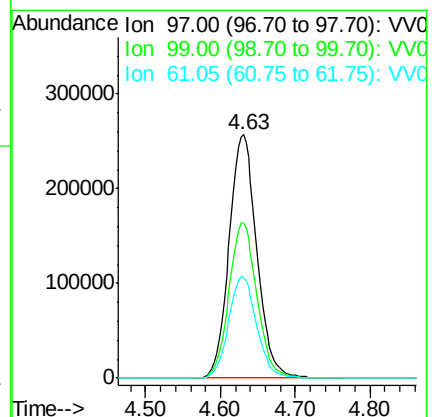
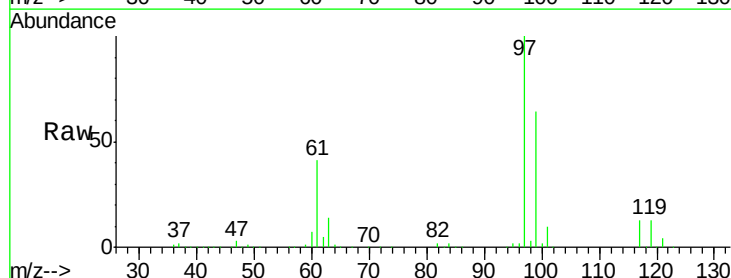
Tgt Ion: 97 Resp: 657896

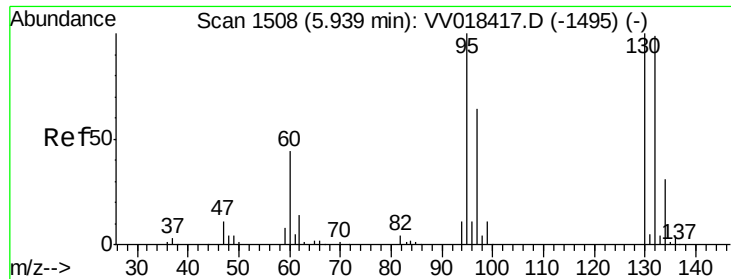
Ion Ratio Lower Upper

97 100

99 64.4 51.6 77.4

61 42.2 34.9 52.3





#34

Trichloroethene

Concen: 16.863 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV018432.D

Acq: 24 Sep 2020 16:21

Instrument :

MSVOA_V

ClientSampled :

BG3X6

Tot Ion: 95 Resp: 56771

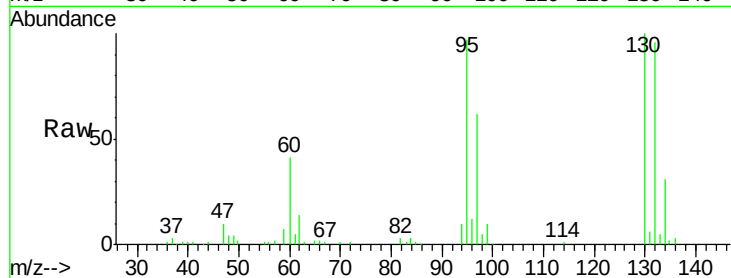
Ion Ratio Lower Upper

95 100

97 64.0 46.3 85.9

132 99.0 68.1 126.5

130 103.5 71.5 132.9

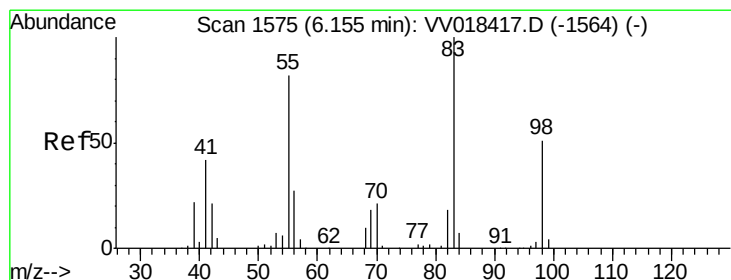
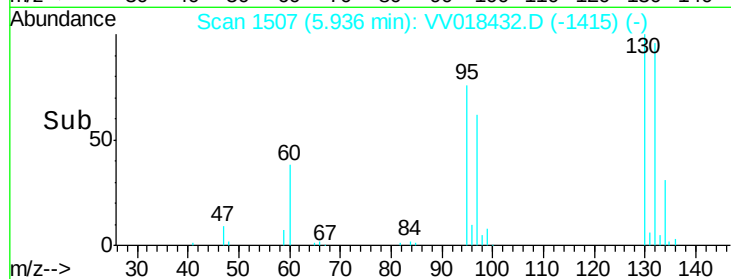
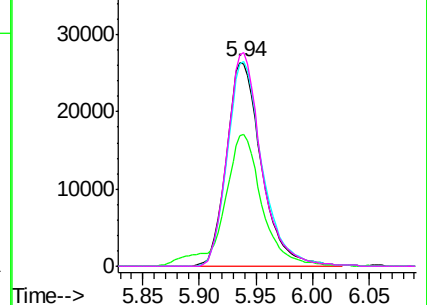


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 2.798 ug/L

RT: 6.15 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VV018432.D

Acq: 24 Sep 2020 16:21

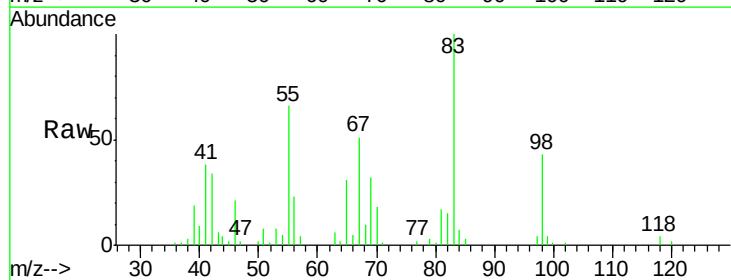
Tgt Ion: 83 Resp: 14183

Ion Ratio Lower Upper

83 100

55 94.5 63.4 95.2

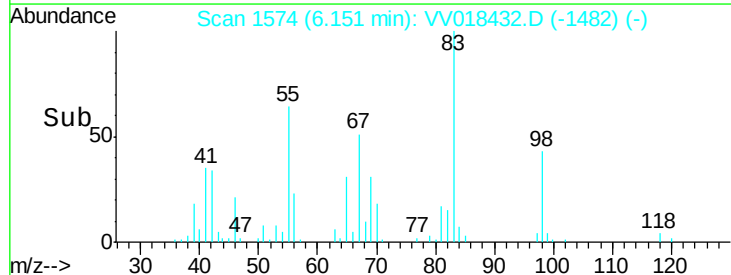
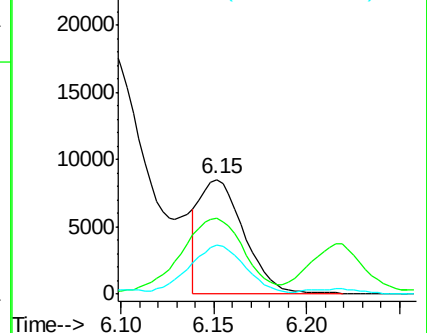
98 55.1 38.8 58.2

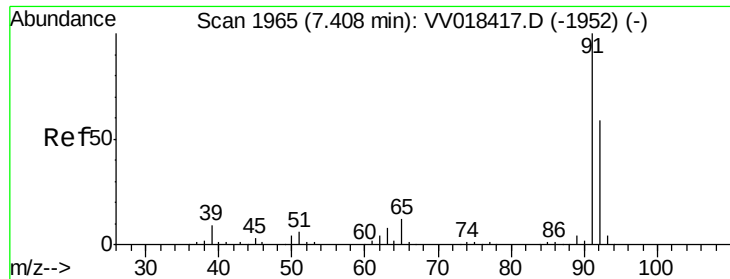


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#42

Toluene

Concen: 912.698 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV018432.D

Acq: 24 Sep 2020 16:21

Instrument :

MSVOA_V

ClientSampleId :

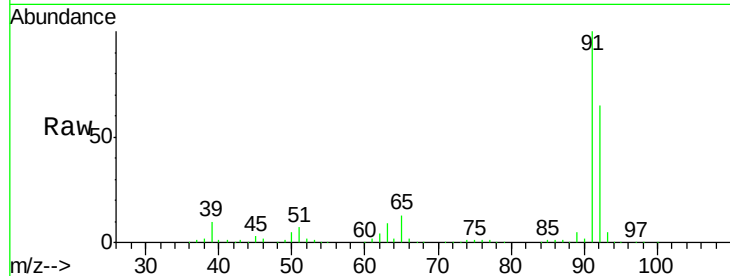
BG3X6

Tot Ion: 91 Resp: 11936649

Ion Ratio Lower Upper

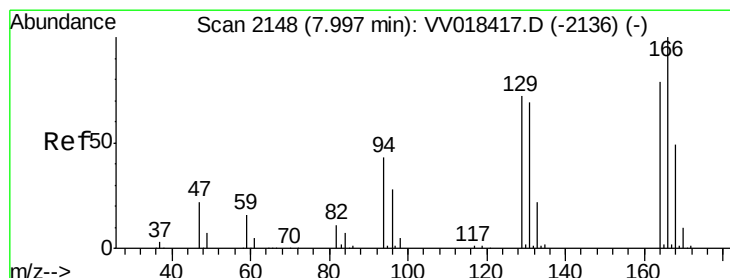
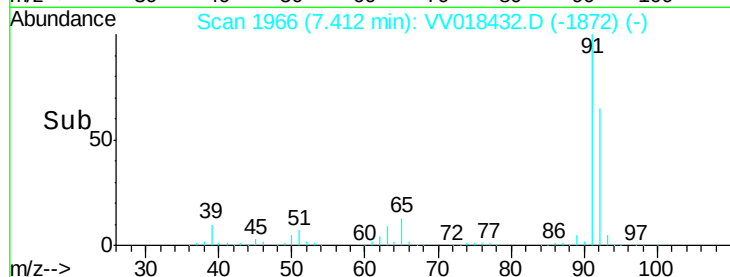
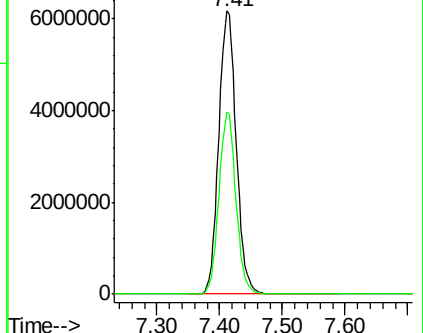
91 100

92 64.6 40.7 75.5



Abundance Ion 91.00 (90.70 to 91.70): VV018417.D (-1952) (-)

Ion 92.00 (91.70 to 92.70): VV018417.D (-1952) (-)



#46

Tetrachloroethene

Concen: 7.661 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV018432.D

Acq: 24 Sep 2020 16:21

Tgt Ion: 164 Resp: 20222

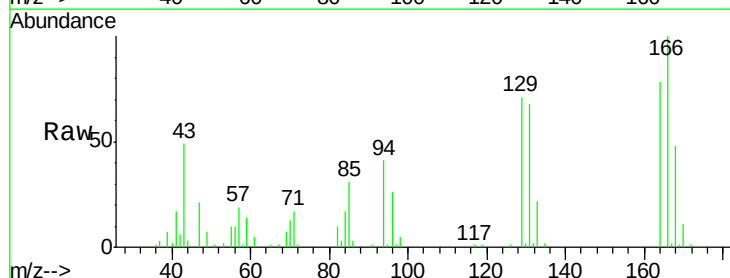
Ion Ratio Lower Upper

164 100

129 90.6 64.5 119.7

131 86.9 61.8 114.8

166 127.9 90.6 168.2

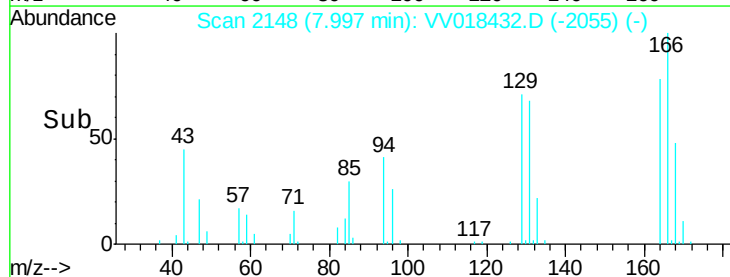
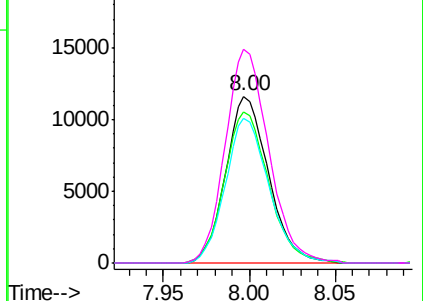


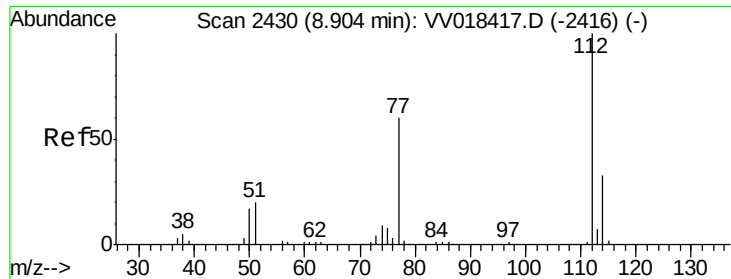
Abundance Ion 164.00 (163.70 to 164.70): VV018417.D (-2136) (-)

Ion 129.00 (128.70 to 129.70): VV018417.D (-2136) (-)

Ion 131.00 (130.70 to 131.70): VV018417.D (-2136) (-)

Ion 166.00 (165.70 to 166.70): VV018417.D (-2136) (-)





#51

Chlorobenzene

Concen: 2.468 ug/L

RT: 8.91 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VV018432.D

Acq: 24 Sep 2020 16:21

Instrument :

MSVOA_V

ClientSampleId :

BG3X6

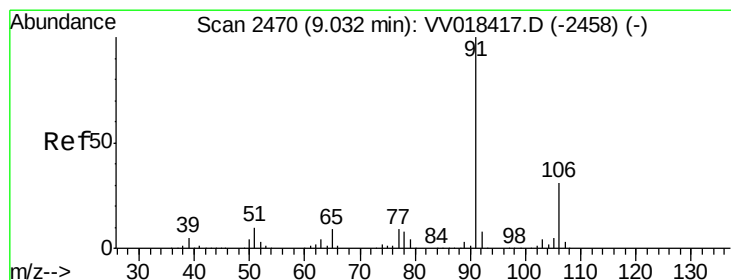
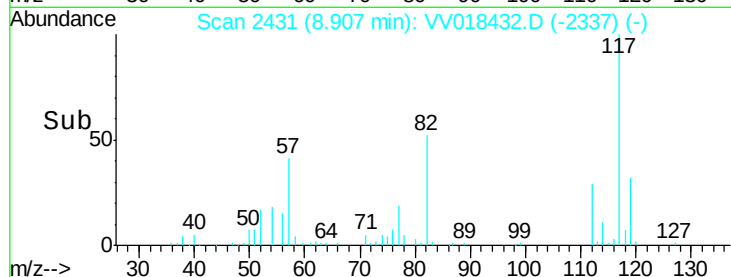
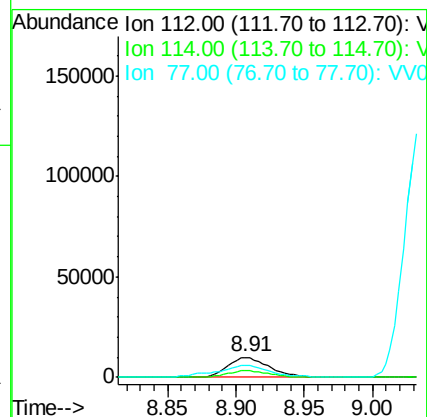
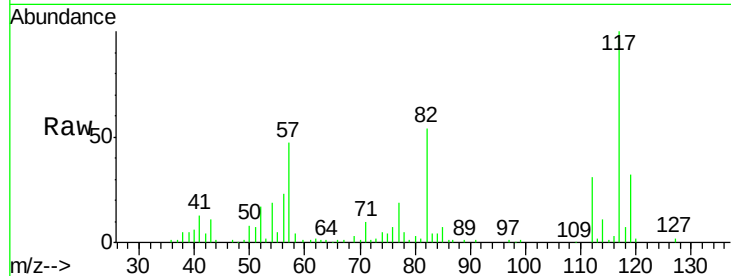
Tot Ion:112 Resp: 20961

Ion Ratio Lower Upper

112 100

114 34.2 22.6 42.0

77 62.2 48.0 72.0



#52

Ethylbenzene

Concen: 178.466 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV018432.D

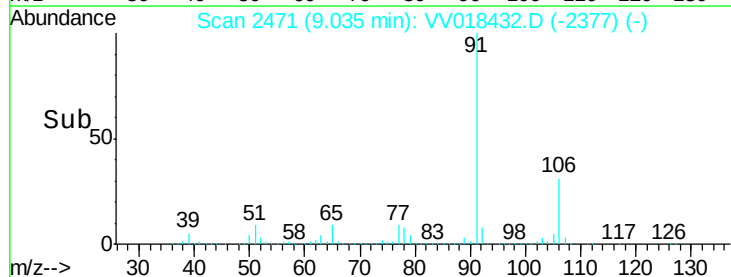
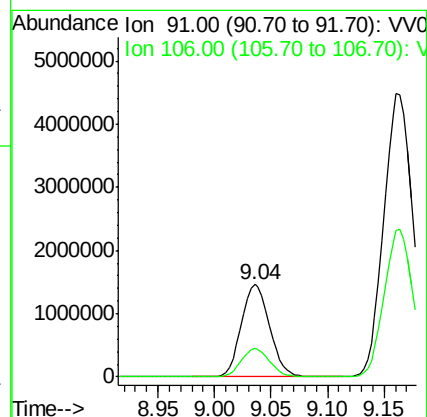
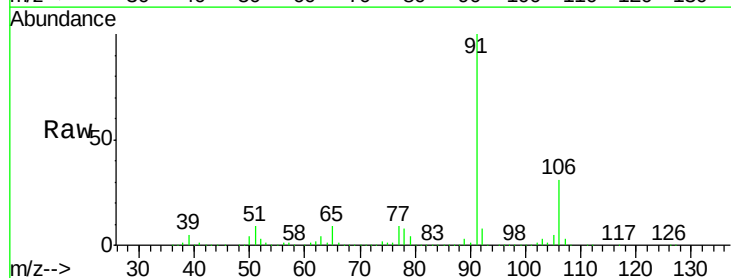
Acq: 24 Sep 2020 16:21

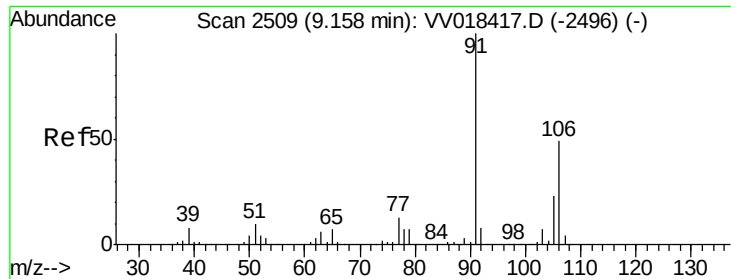
Tgt Ion: 91 Resp: 2548223

Ion Ratio Lower Upper

91 100

106 31.0 21.3 39.5





#53

m,p-Xylene

Concen: 766.237 ug/L

RT: 9.16 min Scan# 2511

Delta R.T. 0.01 min

Lab File: VV018432.D

Acq: 24 Sep 2020 16:21

Instrument :

MSVOA_V

ClientSampleId :

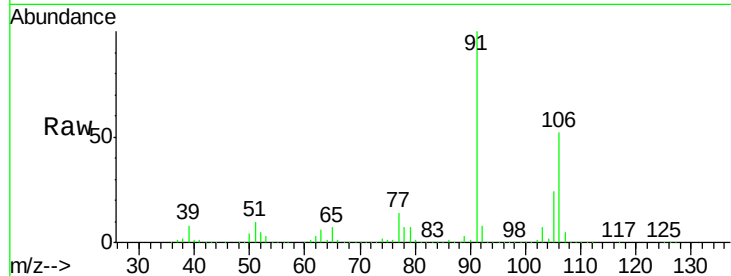
BG3X6

Tot Ion:106 Resp: 4083649

Ion Ratio Lower Upper

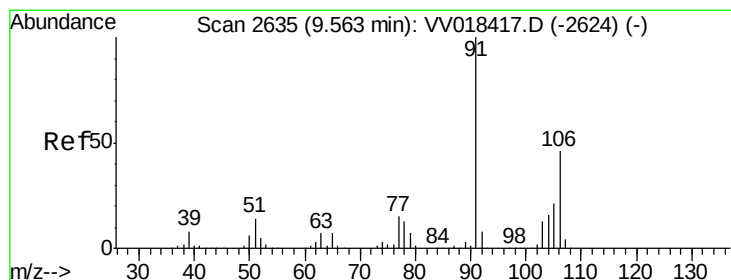
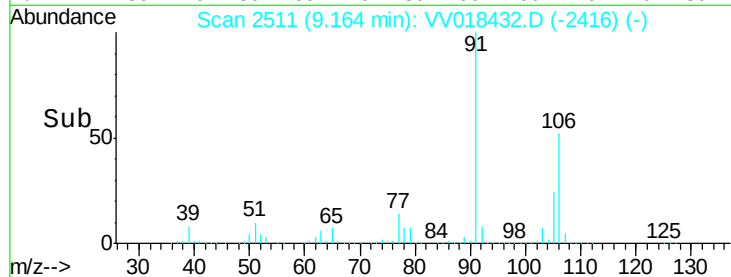
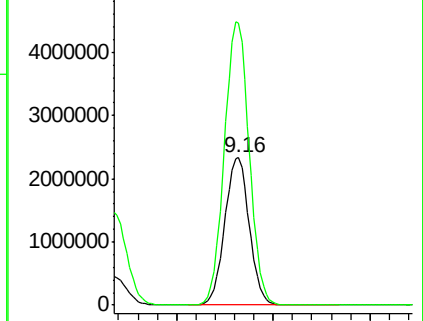
106 100

91 191.7 146.7 272.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 352.956 ug/L

RT: 9.57 min Scan# 2637

Delta R.T. 0.01 min

Lab File: VV018432.D

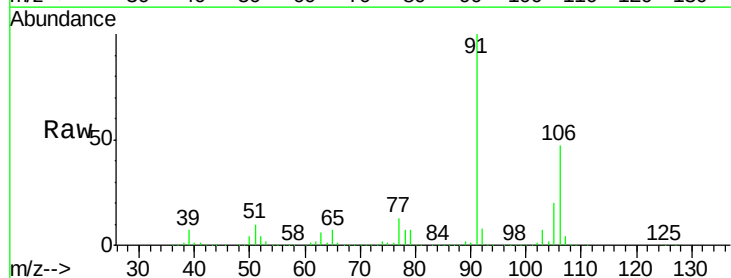
Acq: 24 Sep 2020 16:21

Tgt Ion:106 Resp: 1812206

Ion Ratio Lower Upper

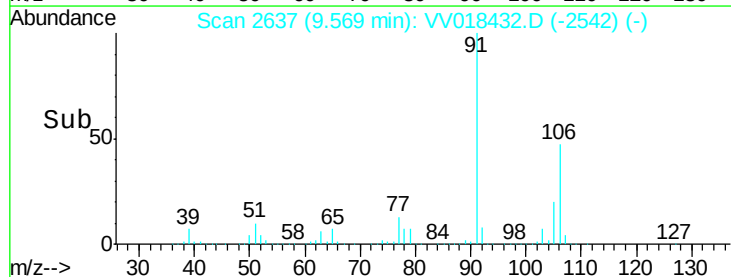
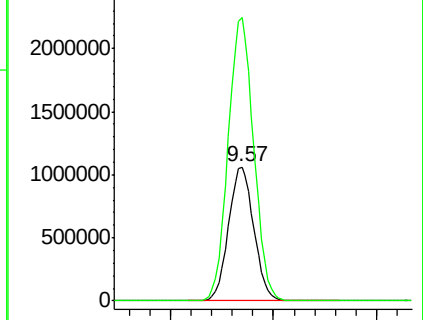
106 100

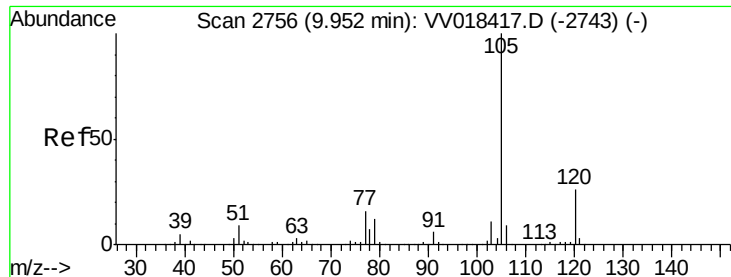
91 211.3 152.2 282.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#56

Isopropylbenzene

Concen: 165.969 ug/L

RT: 9.96 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV018432.D

Acq: 24 Sep 2020 16:21

Instrument :

MSVOA_V

ClientSampled :

BG3X6

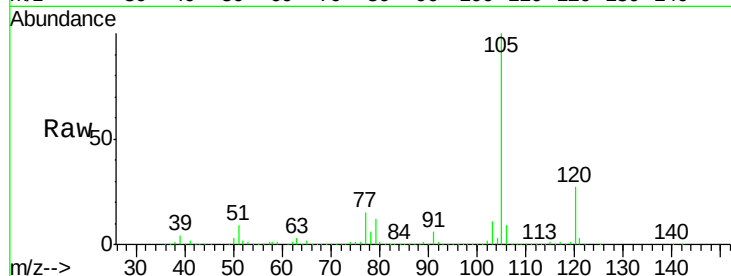
Tot Ion:105 Resp: 2296601

Ion Ratio Lower Upper

105 100

120 26.7 20.9 31.3

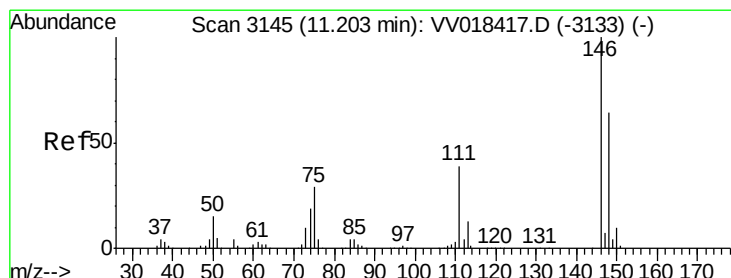
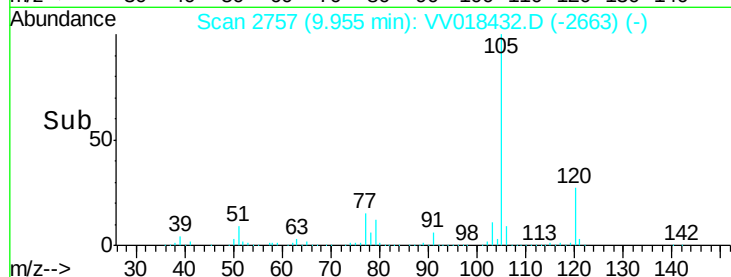
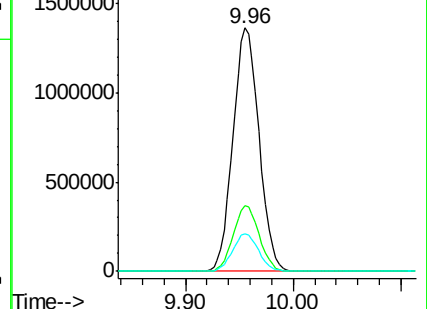
77 15.4 12.5 18.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#62

1,3-Dichlorobenzene

Concen: 3.205 ug/L

RT: 11.21 min Scan# 3148

Delta R.T. 0.01 min

Lab File: VV018432.D

Acq: 24 Sep 2020 16:21

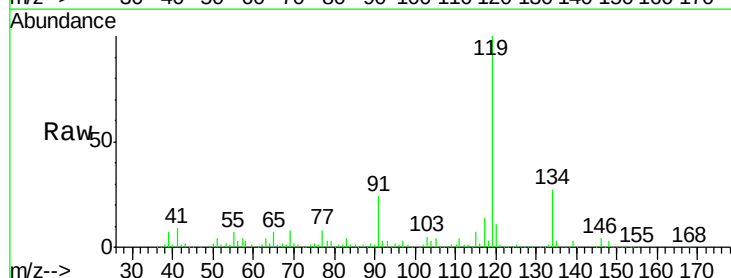
Tgt Ion:146 Resp: 21944

Ion Ratio Lower Upper

146 100

111 90.3 27.6 51.2#

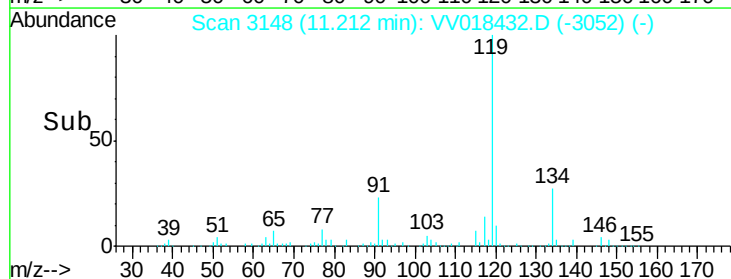
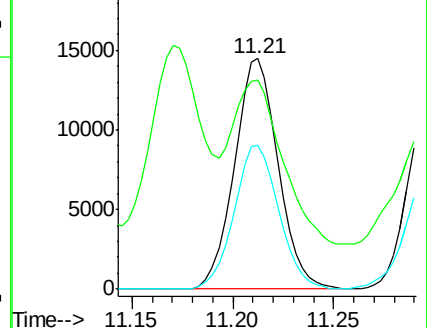
148 62.3 45.4 84.2

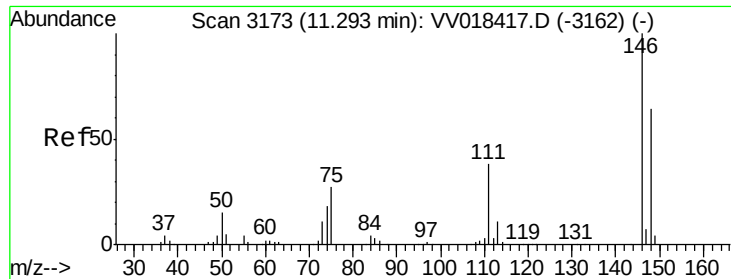


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

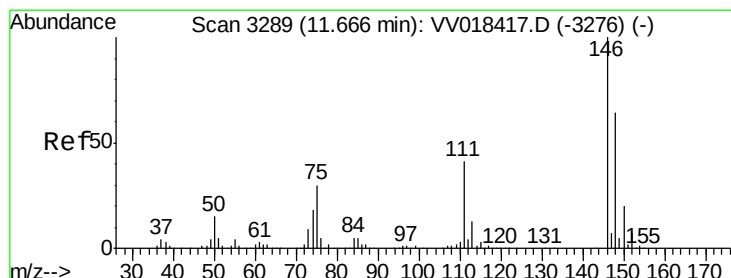
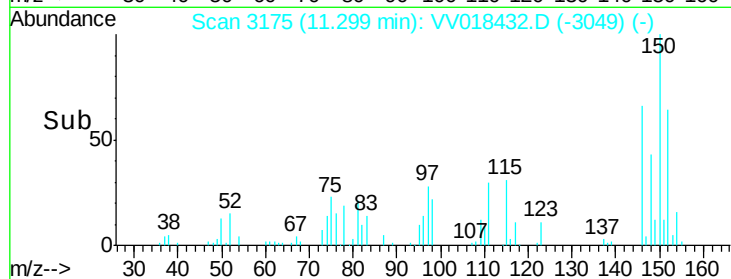
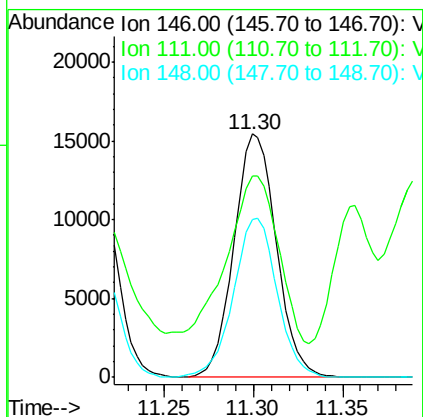
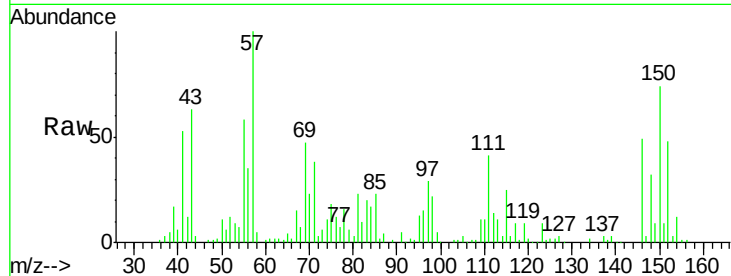




#63
 1,4-Dichlorobenzene
 Concen: 3.645 ug/L
 RT: 11.30 min Scan# 3175
 Delta R.T. 0.01 min
 Lab File: VV018432.D
 Acq: 24 Sep 2020 16:21

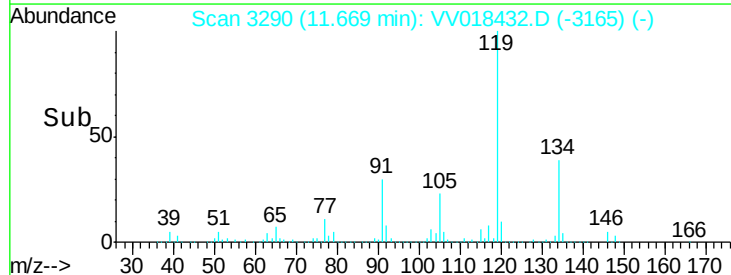
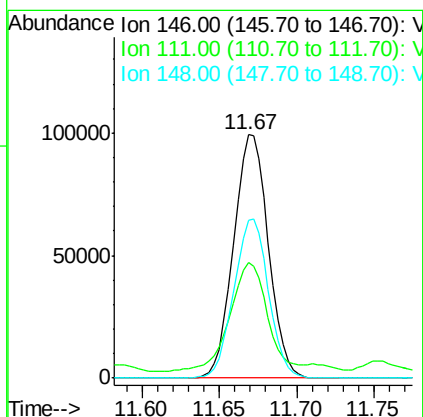
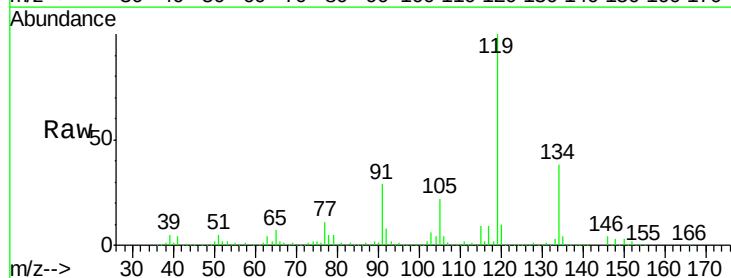
Instrument :
 MSVOA_V
 ClientSampleId :
 BG3X6

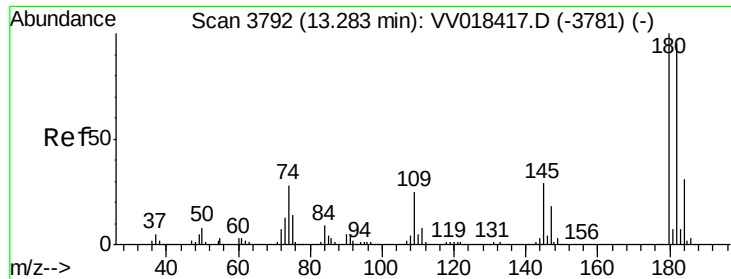
Tot Ion:146 Resp: 25651
 Ion Ratio Lower Upper
 146 100
 111 82.6 27.1 50.3#
 148 65.0 45.4 84.2



#65
 1,2-Dichlorobenzene
 Concen: 22.397 ug/L
 RT: 11.67 min Scan# 3290
 Delta R.T. 0.00 min
 Lab File: VV018432.D
 Acq: 24 Sep 2020 16:21

Tgt Ion:146 Resp: 155008
 Ion Ratio Lower Upper
 146 100
 111 47.3 32.8 49.2
 148 64.6 50.7 76.1

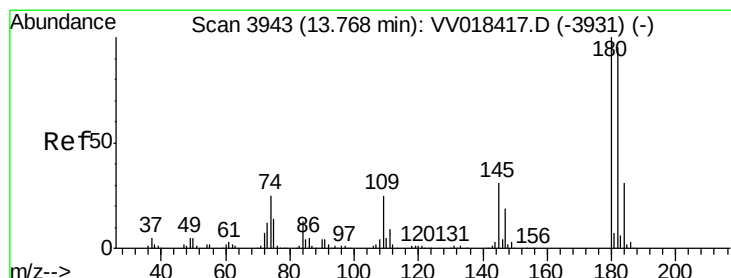
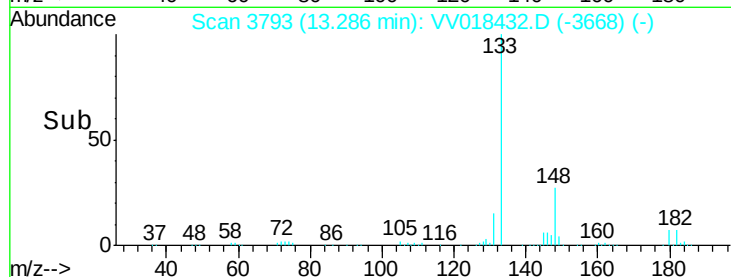
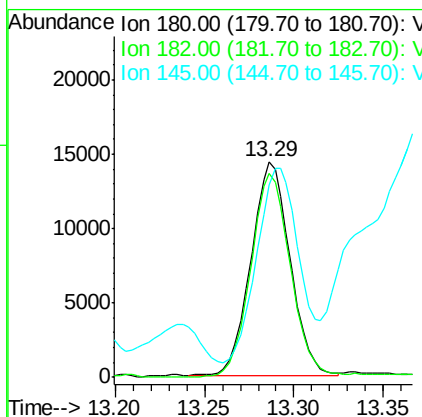
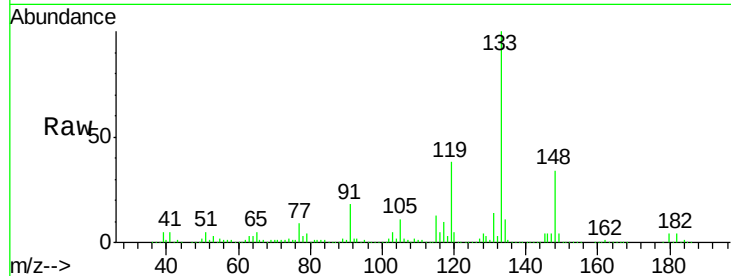




#68
 1,2,4-trichlorobenzene
 Concen: 4.592 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV018432.D
 Acq: 24 Sep 2020 16:21

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3X6

Tot Ion:180 Resp: 22075
 Ion Ratio Lower Upper
 180 100
 182 96.6 77.4 116.2
 145 99.8 23.2 34.8#



#70
 1,2,3-Trichlorobenzene
 Concen: 2.953 ug/L
 RT: 13.77 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VV018432.D
 Acq: 24 Sep 2020 16:21

Tgt Ion:180 Resp: 13981
 Ion Ratio Lower Upper
 180 100
 182 99.2 76.5 114.7
 145 0.0 24.9 37.3#

