

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100920\
 Data File : VV018785.D
 Acq On : 09 Oct 2020 01:25
 Operator : SY/MD
 Sample : L4239-11DL 5X
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3P7DL

Quant Time: Oct 09 07:33:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM100820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Oct 09 07:31:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	334016	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	325936	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	170842	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	138266	45.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.12%
7) Chloroethane-d5	1.58	69	116052	47.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.02%
11) 1,1-Dichloroethene-d2	2.12	63	207442	35.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.90%
21) 2-Butanone-d5	3.90	46	186025	99.82	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.82%
24) Chloroform-d	4.38	84	234682	43.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.66%
26) 1,2-Dichloroethane-d4	5.05	65	171747	47.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.64%
32) Benzene-d6	5.07	84	484945	46.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.46%
36) 1,2-Dichloropropane-d6	6.09	67	153262	44.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.62%
41) Toluene-d8	7.34	98	416965	44.78	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.56%
43) trans-1,3-Dichloropropene-	7.64	79	72862	43.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.16%
47) 2-Hexanone-d5	8.11	63	122602	102.27	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.27%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	179862	45.71	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.42%
64) 1,2-Dichlorobenzene-d4	11.65	152	190378	50.35	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.70%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1913	0.797	ug/L #	19
20) cis-1,2-Dichloroethene	3.94	96	4411	1.710	ug/L	99
27) 1,2-Dichloroethane	5.07	62	3526	0.882	ug/L	96
29) Cyclohexane	4.70	56	25090	6.356	ug/L	97
30) 1,1,1-Trichloroethane	4.64	97	34294	7.894	ug/L	99
31) Carbon tetrachloride	4.64	117	4317	1.179	ug/L #	48
34) Trichloroethene	5.95	95	4844	1.628	ug/L	97
42) Toluene	7.41	91	555694	52.320	ug/L	98
46) Tetrachloroethene	8.00	164	3832	1.757	ug/L	89
48) 2-Hexanone	8.11	43	16036	5.503	ug/L #	74
49) Dibromochloromethane	8.00	129	3987	1.430	ug/L #	10
51) Chlorobenzene	8.91	112	6988	0.991	ug/L	94
52) Ethylbenzene	9.03	91	107032	8.874	ug/L	99
53) m,p-Xylene	9.16	106	152639	34.476	ug/L	97
54) o-xylene	9.57	106	61933	14.729	ug/L	99
56) Isopropylbenzene	9.95	105	170308	14.638	ug/L	98
59) 1,2,3-Trichloropropane	10.37	75	7913	2.341	ug/L #	1

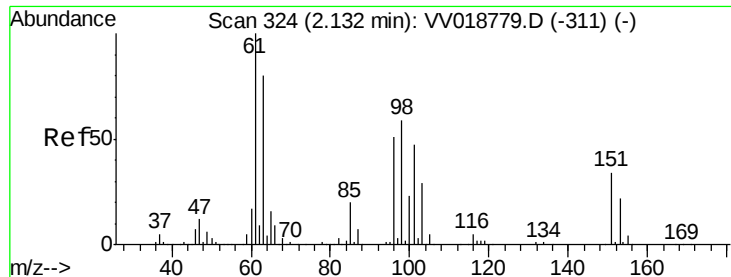
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100920\
Data File : VV018785.D
Acq On : 09 Oct 2020 01:25
Operator : SY/MD
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM100820WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Oct 09 07:31:27 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3-Dichlorobenzene	11.21	146	4740	0.851	ug/L	97
63) 1,4-Dichlorobenzene	11.30	146	6961	1.201	ug/L	93
65) 1,2-Dichlorobenzene	11.67	146	8399	1.502	ug/L #	92
66) 1,2-Dibromo-3-chloropropan	12.43	75	2723	3.530	ug/L #	3
67) 1,3,5-Trichlorobenzene	13.28	180	102876	28.516	ug/L	99
68) 1,2,4-trichlorobenzene	13.28	180	102876	30.325	ug/L	99
69) Naphthalene	13.52	128	250318	26.188	ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	32314	9.596	ug/L	97

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



#10

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

Concen: 0.797 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV018785.D

Acq: 09 Oct 2020 01:25

Instrument :

MSVOA_V

ClientSampleID :

BG3P7DL

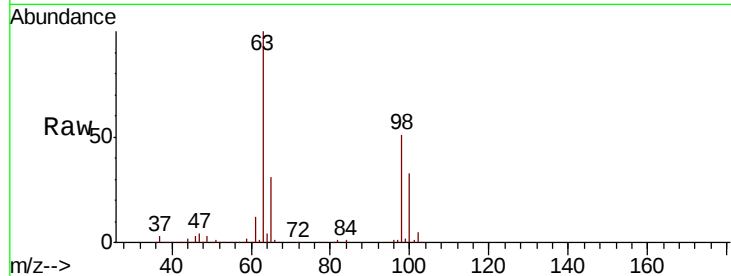
Tot Ion:101 Resp: 1913

Ion Ratio Lower Upper

101 100

85 0.0 35.9 53.9#

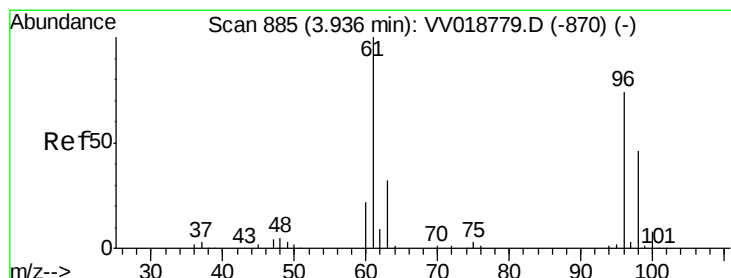
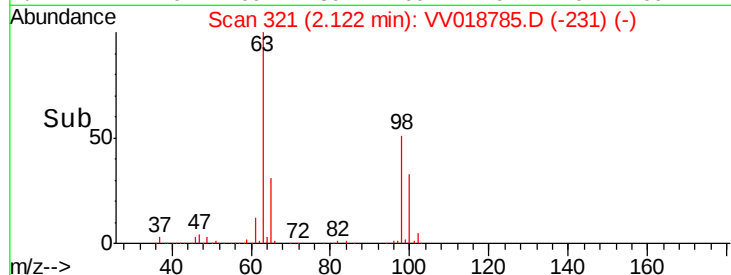
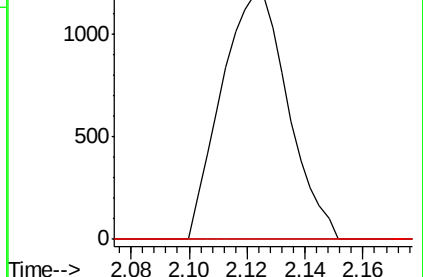
151 0.0 59.8 89.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#20

cis-1,2-Dichloroethene

Concen: 1.710 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.01 min

Lab File: VV018785.D

Acq: 09 Oct 2020 01:25

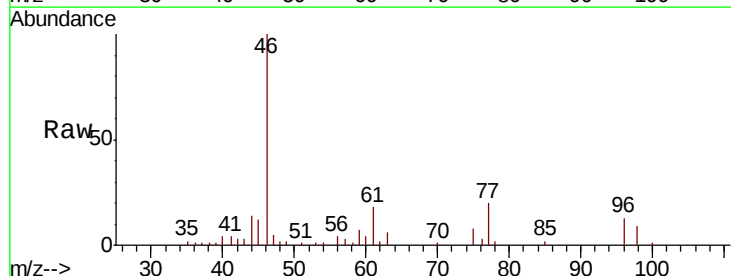
Tgt Ion: 96 Resp: 4411

Ion Ratio Lower Upper

96 100

61 138.2 97.3 180.7

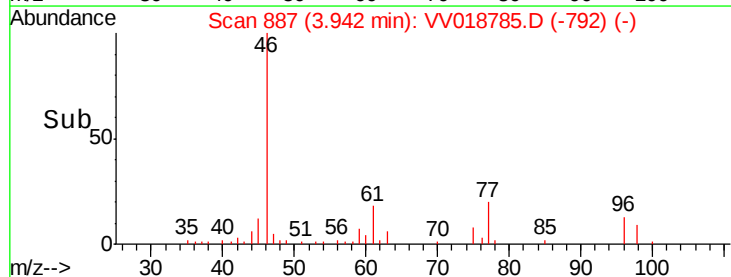
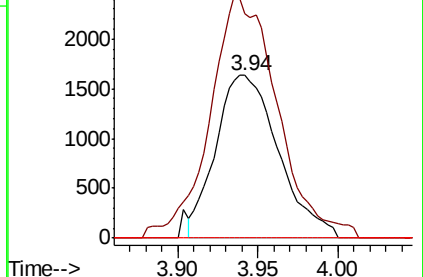
68 0.0 0.0 0.0

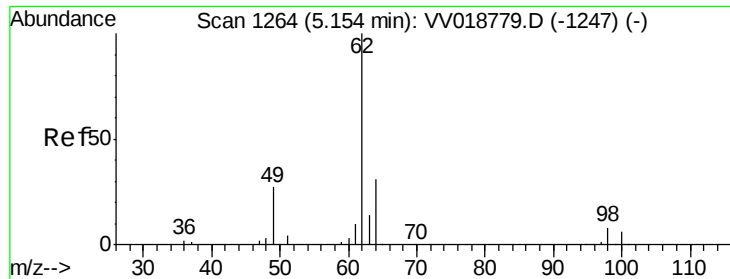


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0

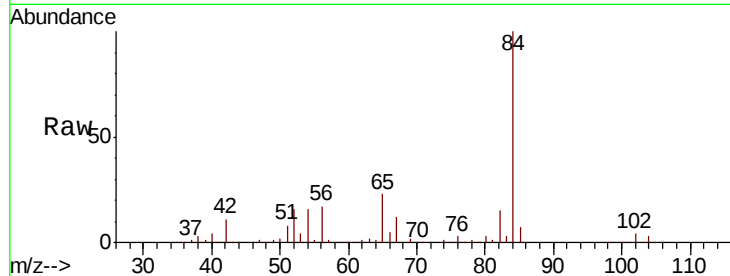




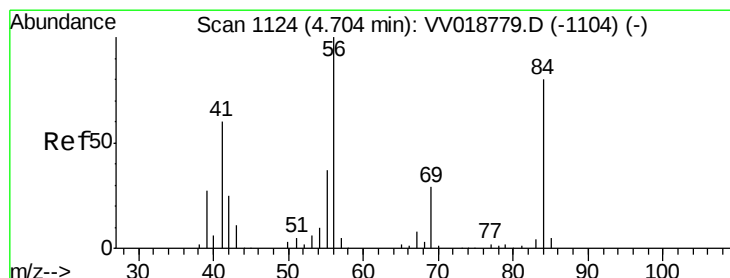
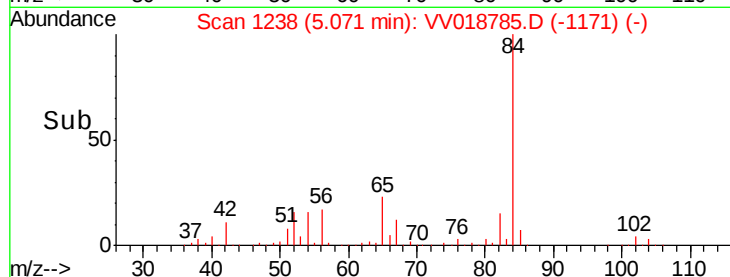
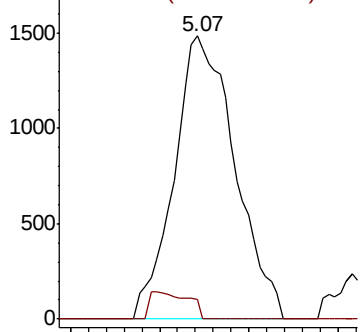
#27
 1,2-Dichloroethane
 Concen: 0.882 ug/L
 RT: 5.07 min Scan# 1238
 Delta R.T. -0.08 min
 Lab File: VV018785.D
 Acq: 09 Oct 2020 01:25

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3P7DL

Tot Ion: 62 Resp: 3526
 Ion Ratio Lower Upper
 62 100
 98 6.9 6.6 10.0

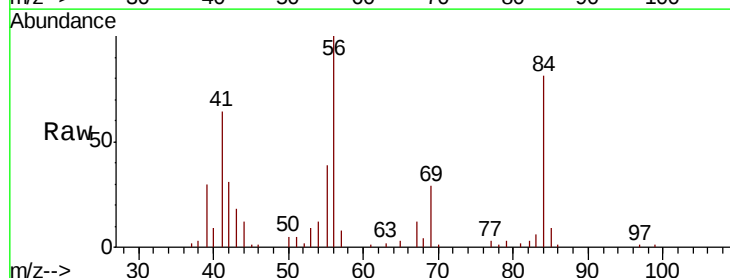


Abundance Ion 62.00 (61.70 to 62.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0

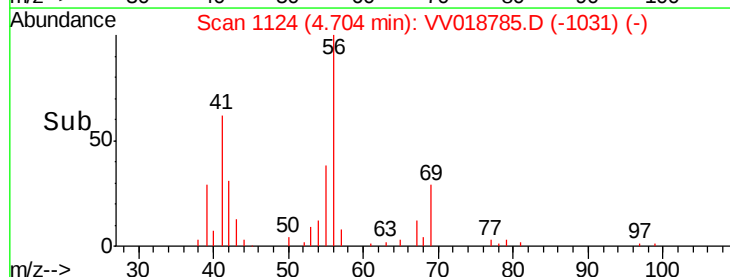
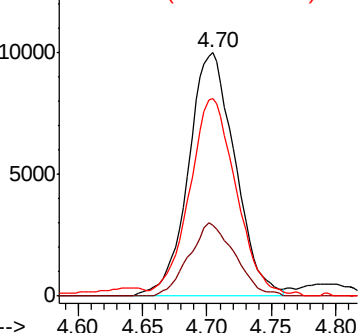


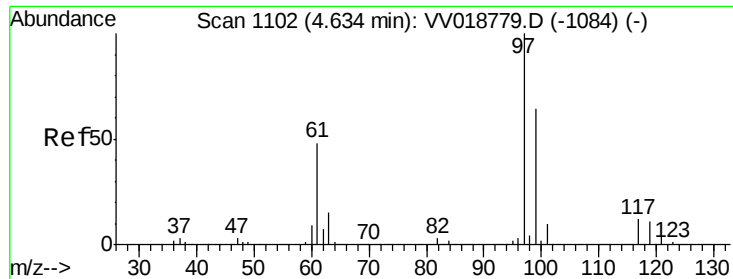
#29
 Cyclohexane
 Concen: 6.356 ug/L
 RT: 4.70 min Scan# 1124
 Delta R.T. -0.00 min
 Lab File: VV018785.D
 Acq: 09 Oct 2020 01:25

Tgt Ion: 56 Resp: 25090
 Ion Ratio Lower Upper
 56 100
 69 29.6 23.1 34.7
 84 77.8 65.2 97.8



Abundance Ion 56.00 (55.70 to 56.70): VV0
 Ion 69.00 (68.70 to 69.70): VV0
 Ion 84.00 (83.70 to 84.70): VV0

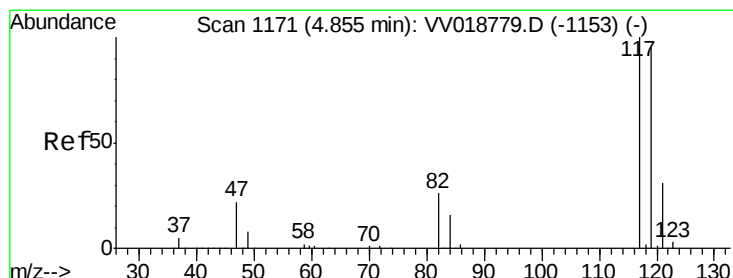
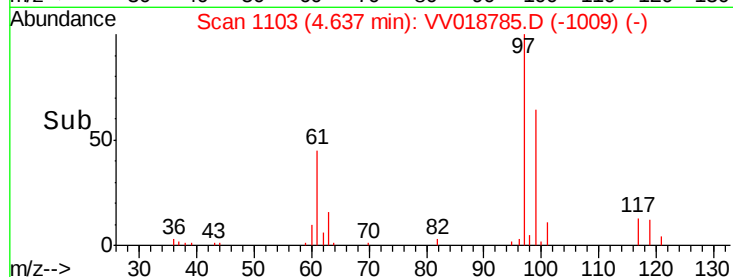
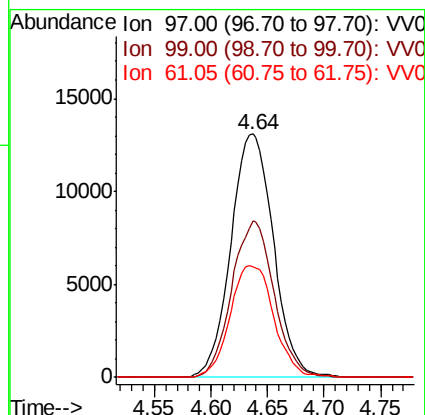
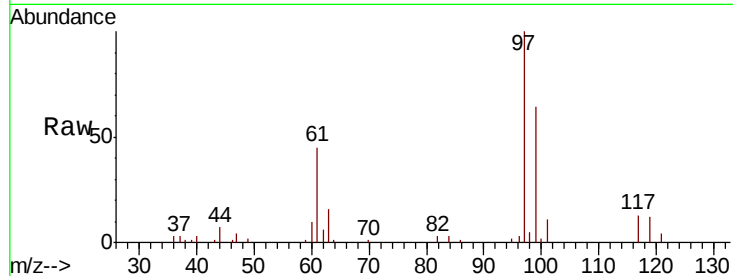




#30
 1,1,1-Trichloroethane
 Concen: 7.894 ug/L
 RT: 4.64 min Scan# 1103
 Delta R.T. 0.00 min
 Lab File: VV018785.D
 Acq: 09 Oct 2020 01:25

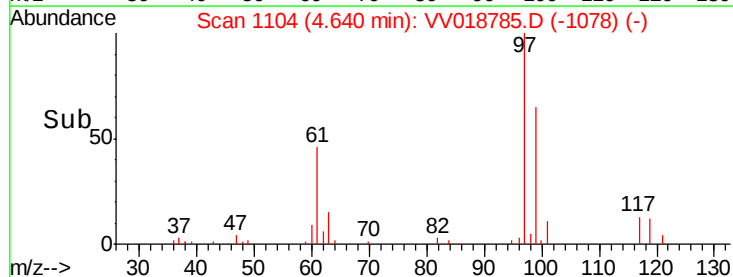
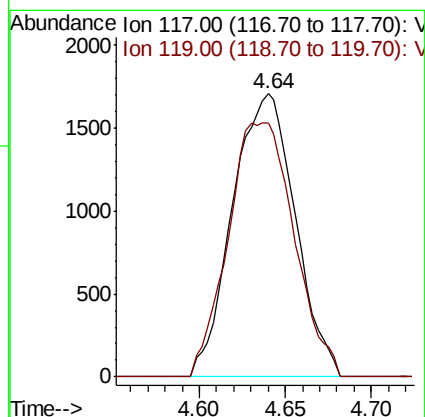
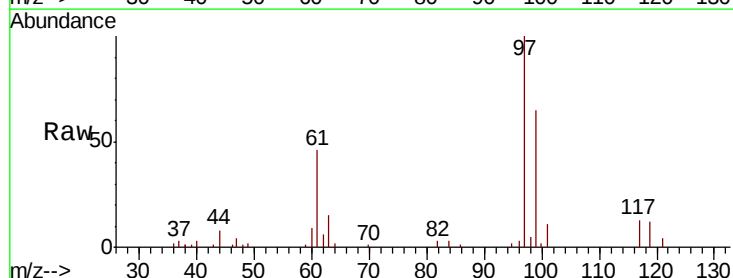
Instrument :
 MSVOA_V
 ClientSampleID :
 BG3P7DL

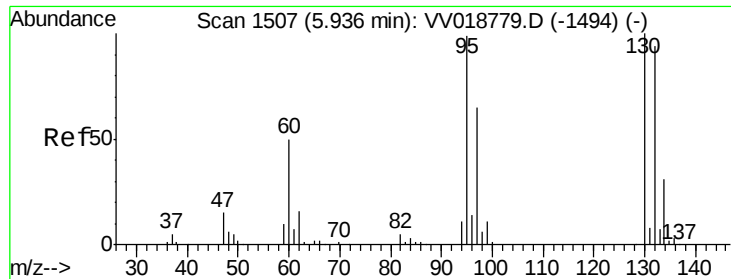
Tot Ion: 97 Resp: 34294
 Ion Ratio Lower Upper
 97 100
 99 63.6 51.0 76.4
 61 46.9 37.0 55.4



#31
 Carbon tetrachloride
 Concen: 1.179 ug/L
 RT: 4.64 min Scan# 1104
 Delta R.T. -0.22 min
 Lab File: VV018785.D
 Acq: 09 Oct 2020 01:25

Tgt Ion: 117 Resp: 4317
 Ion Ratio Lower Upper
 117 100
 119 45.2 76.3 114.5#

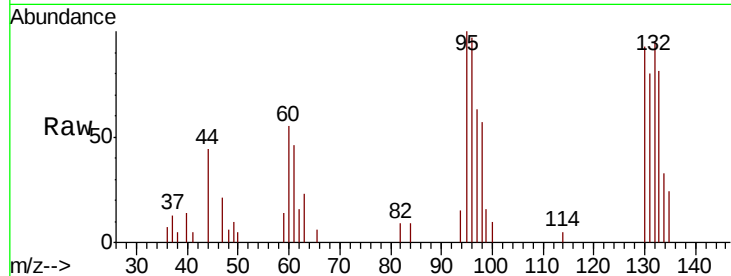




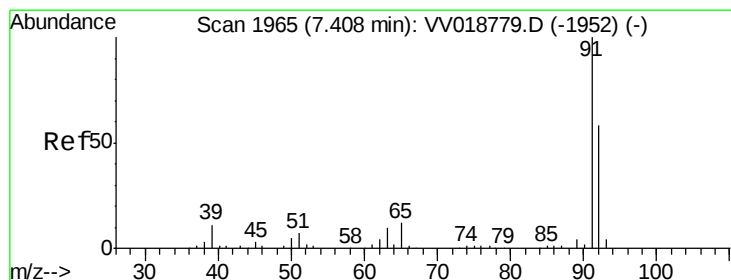
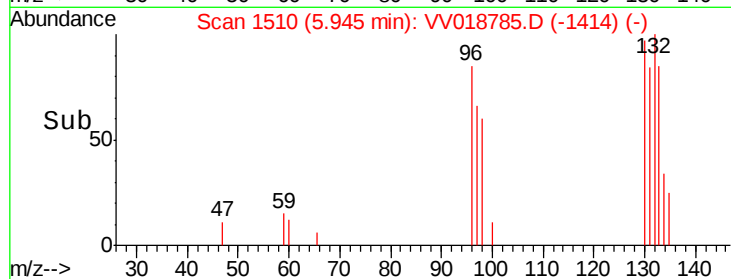
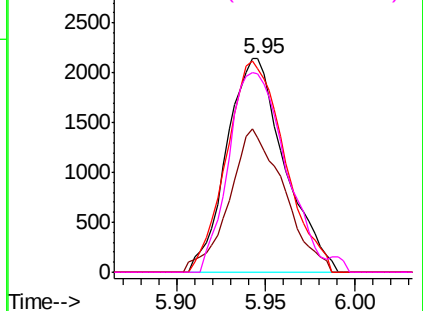
#34
 Trichloroethene
 Concen: 1.628 ug/L
 RT: 5.95 min Scan# 1510
 Delta R.T. 0.01 min
 Lab File: VV018785.D
 Acq: 09 Oct 2020 01:25

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3P7DL

Tot Ion: 95 Resp: 4844
 Ion Ratio Lower Upper
 95 100
 97 63.2 45.1 83.9
 132 95.1 66.2 123.0
 130 92.6 69.1 128.3

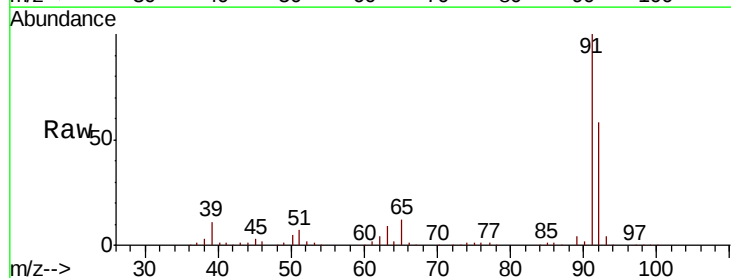


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

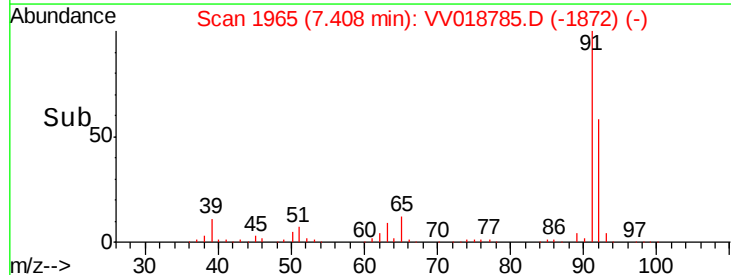
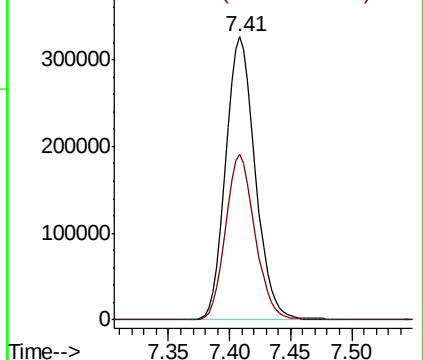


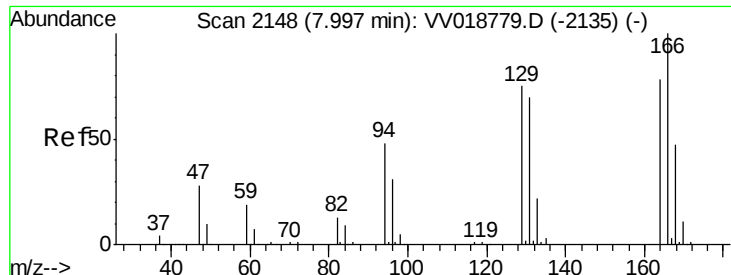
#42
 Toluene
 Concen: 52.320 ug/L
 RT: 7.41 min Scan# 1965
 Delta R.T. -0.00 min
 Lab File: VV018785.D
 Acq: 09 Oct 2020 01:25

Tgt Ion: 91 Resp: 555694
 Ion Ratio Lower Upper
 91 100
 92 58.4 39.8 74.0



Abundance Ion 91.00 (90.70 to 91.70): VV0
 Ion 92.00 (91.70 to 92.70): VV0





#46

Tetrachloroethene

Concen: 1.757 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.00 min

Lab File: VV018785.D

Acq: 09 Oct 2020 01:25

Instrument :

MSVOA_V

ClientSampleId :

BG3P7DL

Tot Ion:164 Resp: 3832

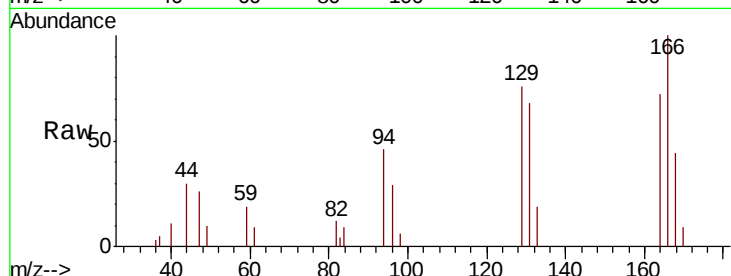
Ion Ratio Lower Upper

164 100

129 106.4 64.6 120.0

131 95.4 63.6 118.0

166 139.6 88.3 164.1

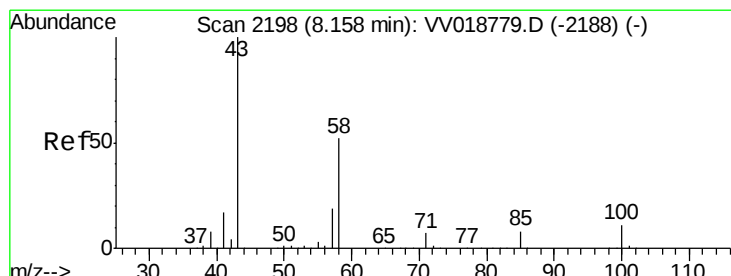
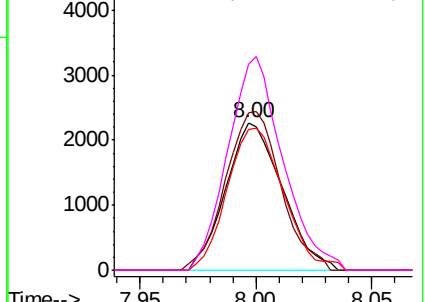
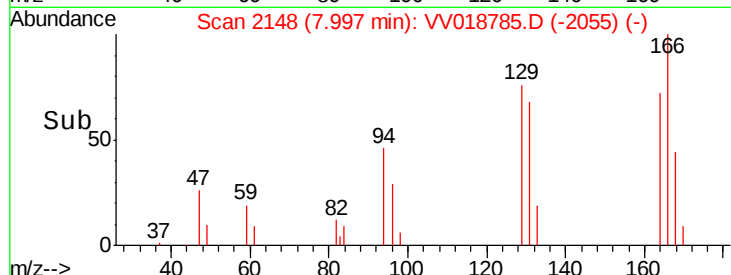


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 5.503 ug/L

RT: 8.11 min Scan# 2182

Delta R.T. -0.05 min

Lab File: VV018785.D

Acq: 09 Oct 2020 01:25

Tgt Ion: 43 Resp: 16036

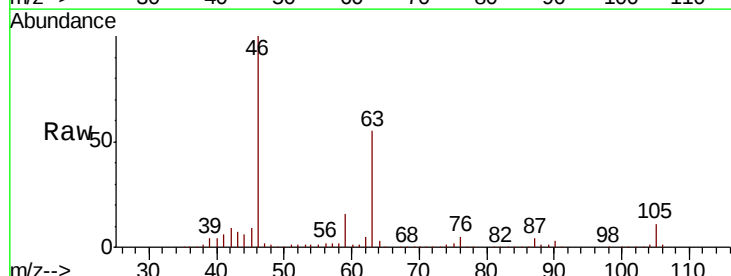
Ion Ratio Lower Upper

43 100

58 30.6 41.8 62.8#

57 22.7 14.9 22.3#

100 0.3 9.2 13.8#

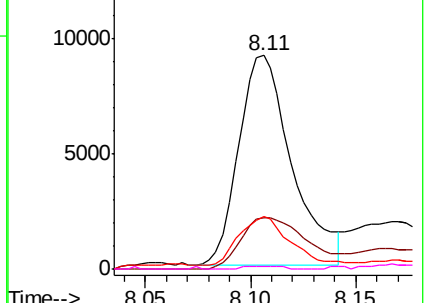
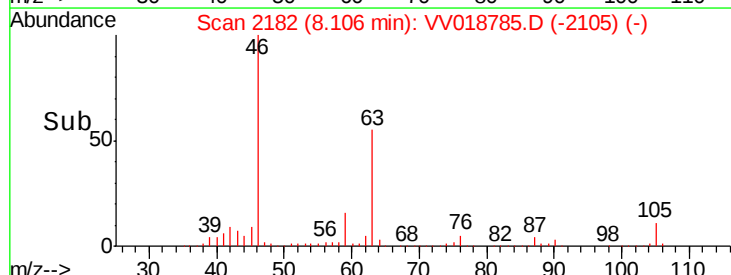


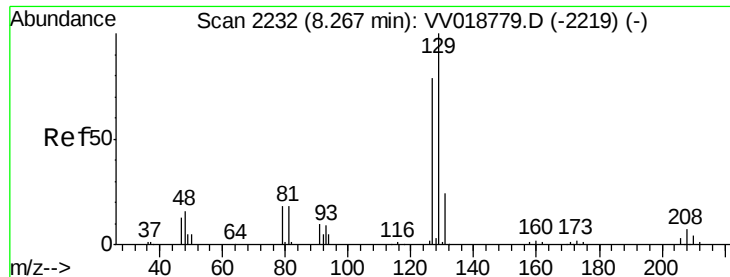
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#49

Dibromochloromethane

Concen: 1.430 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. -0.27 min

Lab File: VV018785.D

Acq: 09 Oct 2020 01:25

Instrument :

MSVOA_V

ClientSampled :

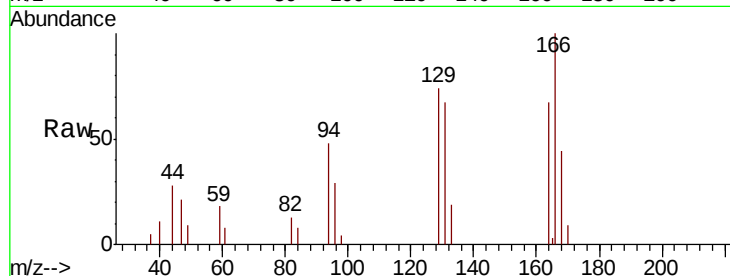
BG3P7DL

Tot Ion:129 Resp: 3987

Ion Ratio Lower Upper

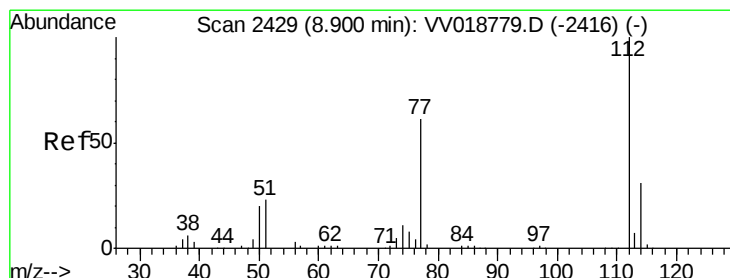
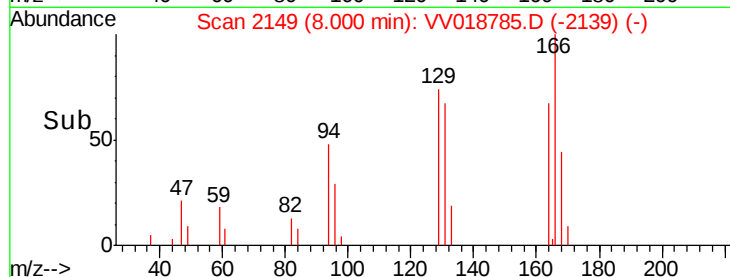
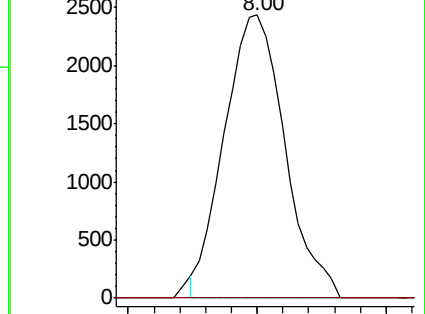
129 100

127 0.0 55.3 102.7#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#51

Chlorobenzene

Concen: 0.991 ug/L

RT: 8.91 min Scan# 2431

Delta R.T. 0.01 min

Lab File: VV018785.D

Acq: 09 Oct 2020 01:25

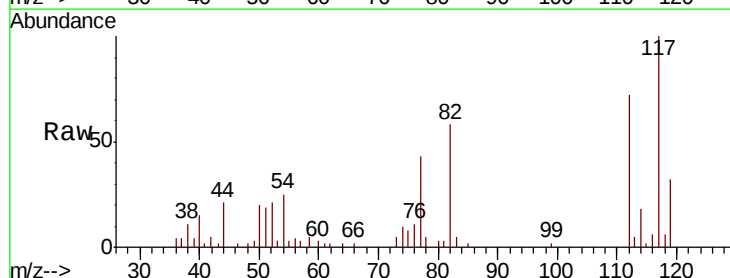
Tgt Ion:112 Resp: 6988

Ion Ratio Lower Upper

112 100

114 25.5 22.0 41.0

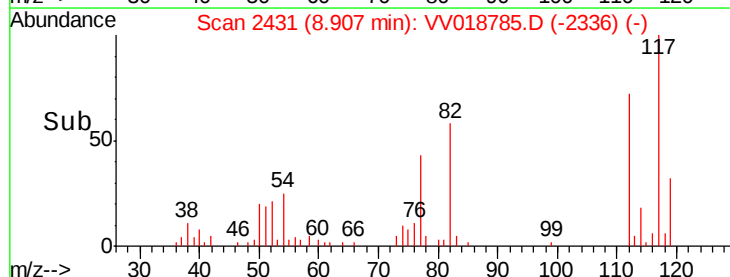
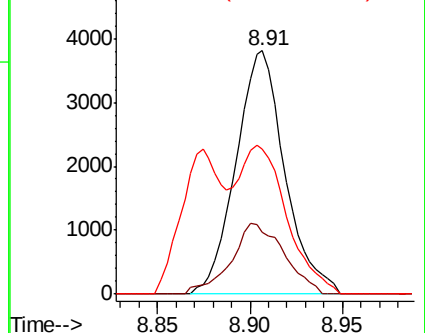
77 59.3 49.8 74.6

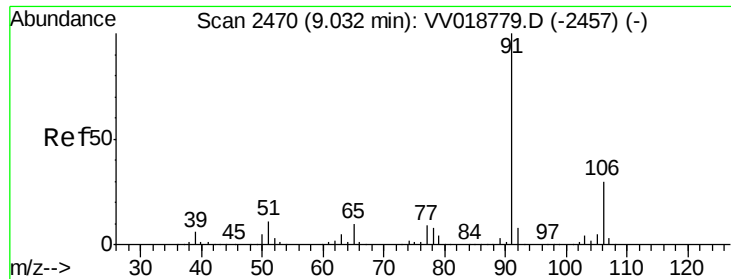


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0

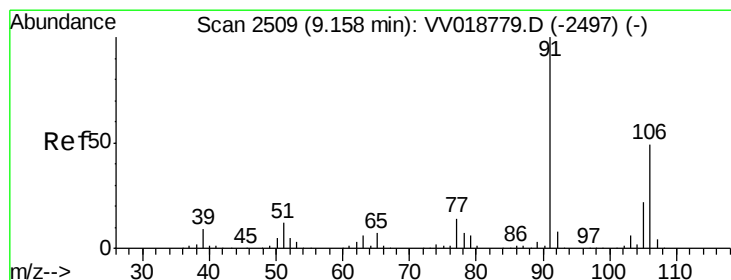
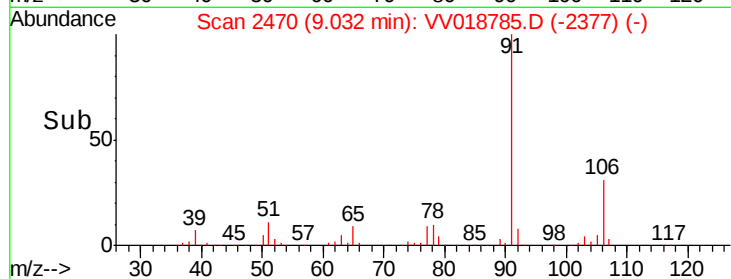
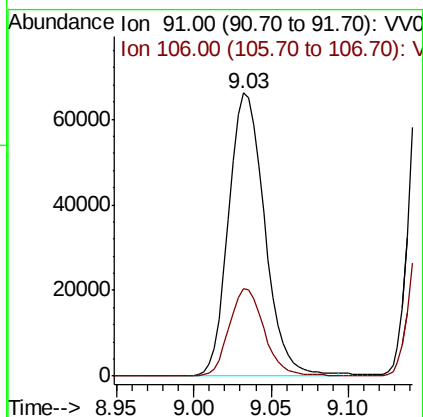
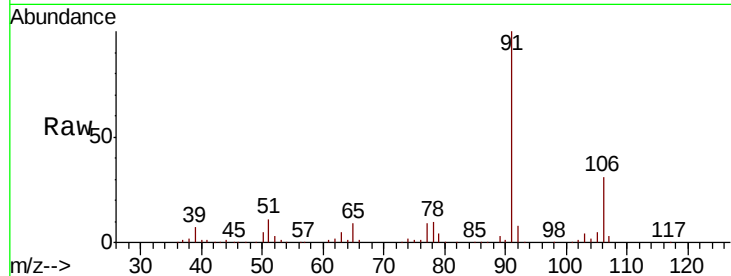




#52
Ethylbenzene
Concen: 8.874 ug/L
RT: 9.03 min Scan# 2470
Delta R.T. -0.00 min
Lab File: VV018785.D
Acq: 09 Oct 2020 01:25

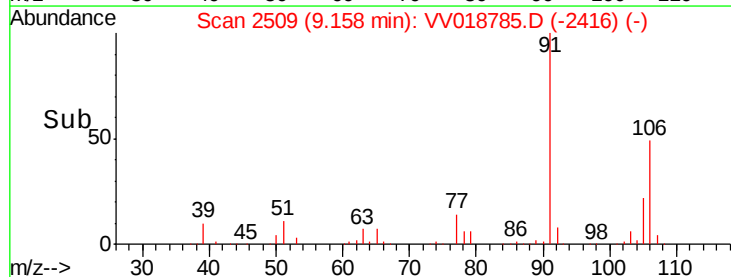
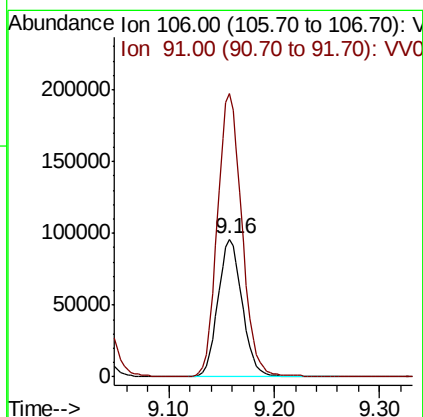
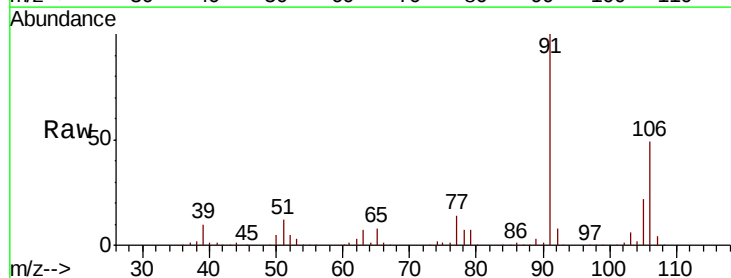
Instrument :
MSVOA_V
ClientSampled :
BG3P7DL

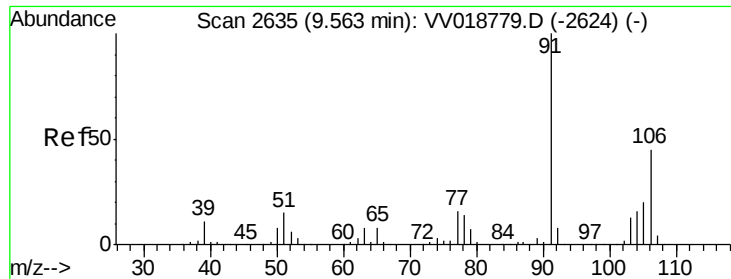
Tot Ion: 91 Resp: 107032
Ion Ratio Lower Upper
91 100
106 30.7 20.9 38.9



#53
m,p-Xylene
Concen: 34.476 ug/L
RT: 9.16 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VV018785.D
Acq: 09 Oct 2020 01:25

Tgt Ion: 106 Resp: 152639
Ion Ratio Lower Upper
106 100
91 205.7 147.1 273.1





#54

o-xylene

Concen: 14.729 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV018785.D

Acq: 09 Oct 2020 01:25

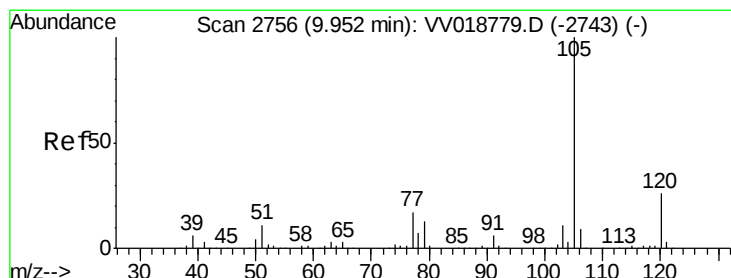
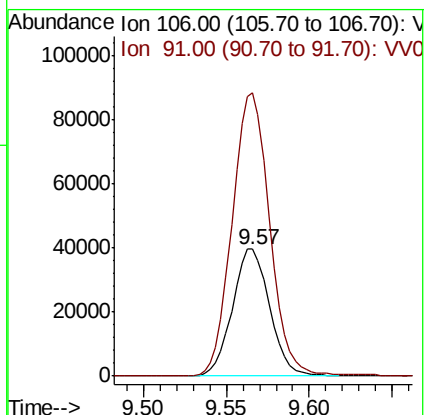
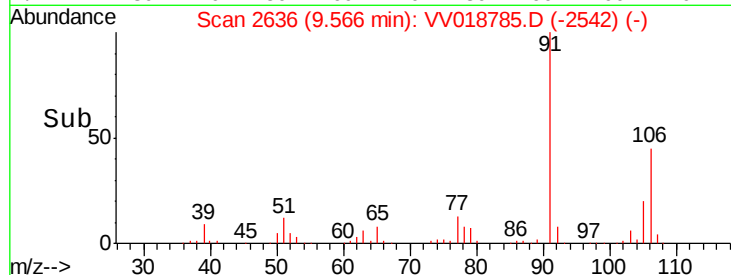
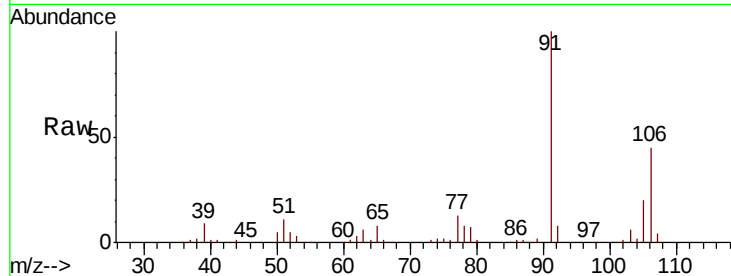
Instrument :
MSVOA_V
ClientSampleId :
BG3P7DL

Tot Ion:106 Resp: 61933

Ion Ratio Lower Upper

106 100

91 223.0 156.8 291.2



#56

Isopropylbenzene

Concen: 14.638 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV018785.D

Acq: 09 Oct 2020 01:25

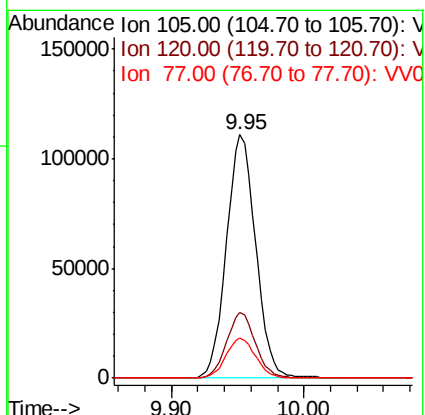
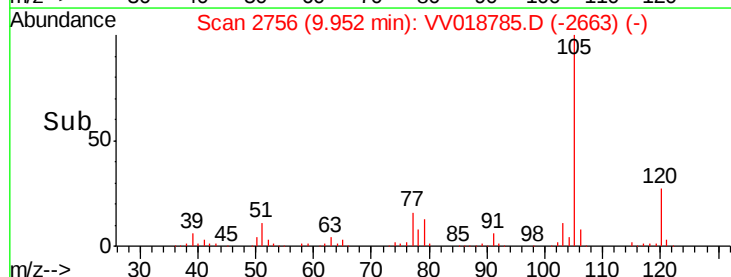
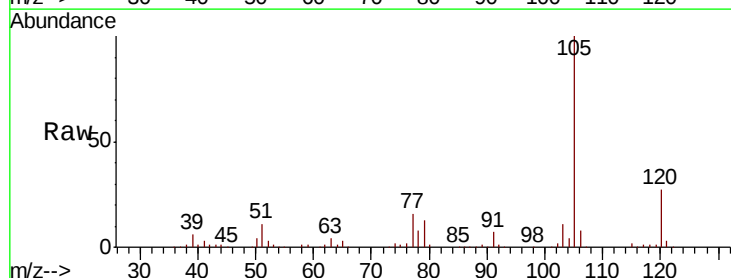
Tgt Ion:105 Resp: 170308

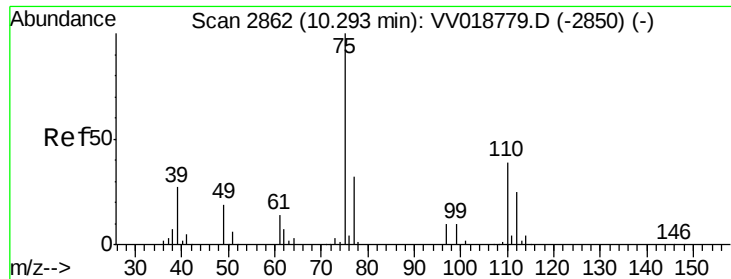
Ion Ratio Lower Upper

105 100

120 26.6 20.4 30.6

77 16.6 13.0 19.6





#59

1,2,3-Trichloropropane

Concen: 2.341 ug/L

RT: 10.37 min Scan# 2887

Delta R.T. 0.08 min

Lab File: VV018785.D

Acq: 09 Oct 2020 01:25

Instrument :

MSVOA_V

ClientSampleId :

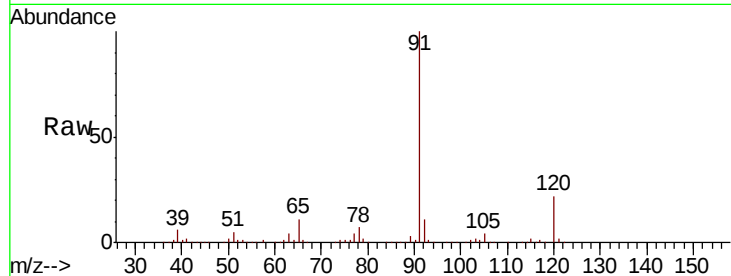
BG3P7DL

Tot Ion: 75 Resp: 7913

Ion Ratio Lower Upper

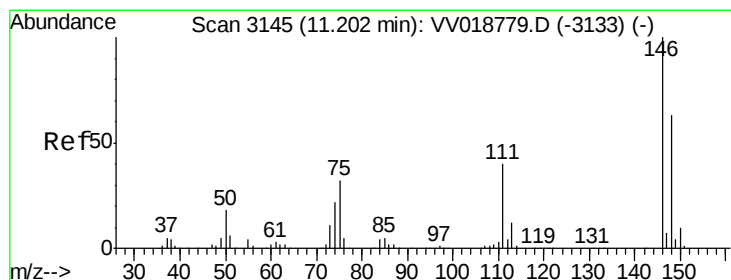
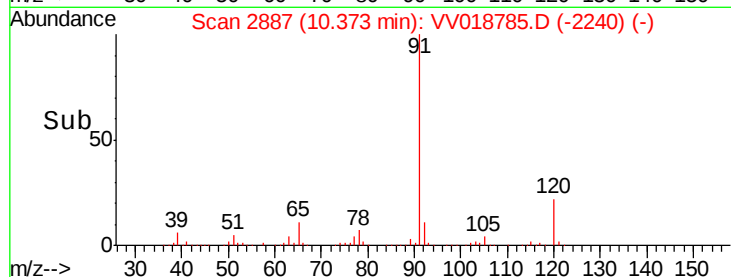
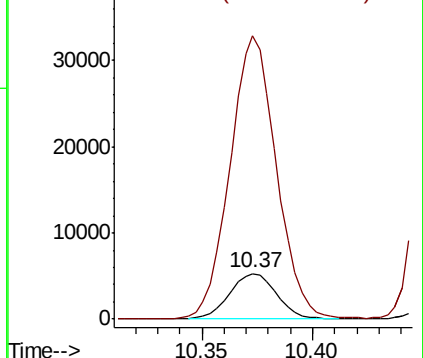
75 100

77 608.6 25.9 38.9#



Abundance Ion 75.00 (74.70 to 75.70): VV018779.D (-2850) (-)

Ion 77.00 (76.70 to 77.70): VV018779.D (-2850) (-)



#62

1,3-Dichlorobenzene

Concen: 0.851 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV018785.D

Acq: 09 Oct 2020 01:25

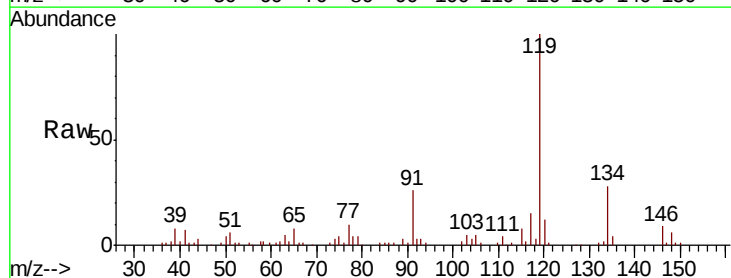
Tgt Ion: 146 Resp: 4740

Ion Ratio Lower Upper

146 100

111 42.9 27.8 51.6

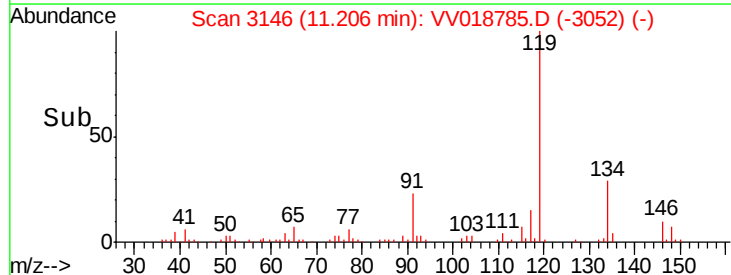
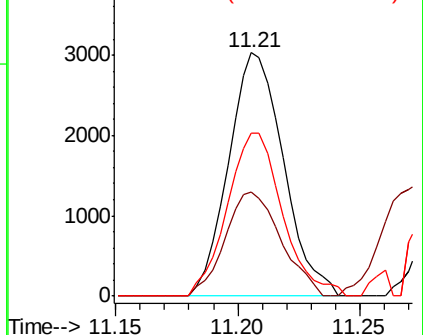
148 66.8 45.4 84.4

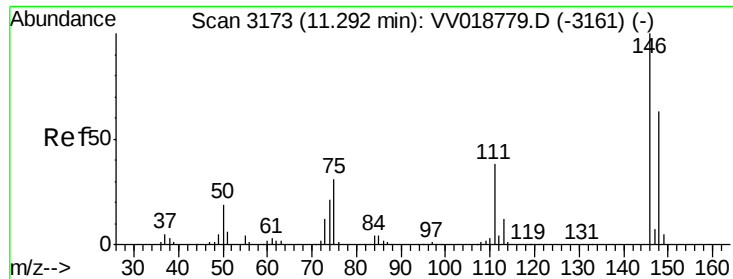


Abundance Ion 146.00 (145.70 to 146.70): VV018779.D (-3133) (-)

Ion 111.00 (110.70 to 111.70): VV018779.D (-3133) (-)

Ion 148.00 (147.70 to 148.70): VV018779.D (-3133) (-)





#63

1,4-Dichlorobenzene

Concen: 1.201 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV018785.D

Acq: 09 Oct 2020 01:25

Instrument :

MSVOA_V

ClientSampled :

BG3P7DL

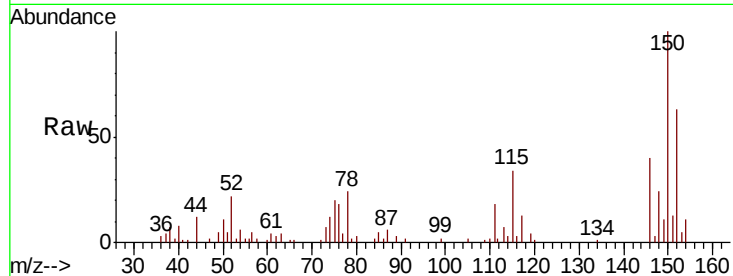
Tot Ion:146 Resp: 6961

Ion Ratio Lower Upper

146 100

111 44.5 27.1 50.3

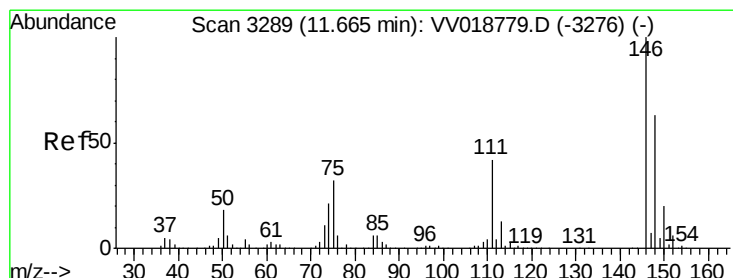
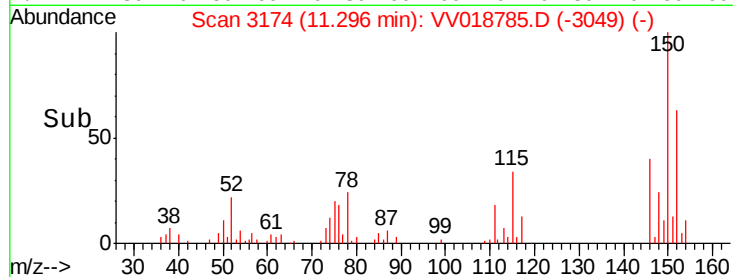
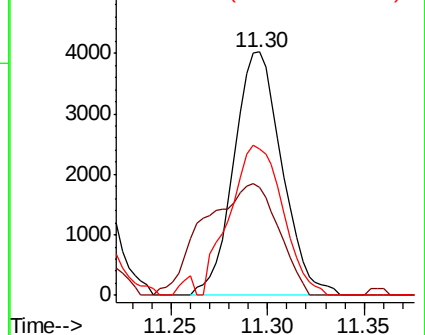
148 60.1 45.4 84.4



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: 1.502 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV018785.D

Acq: 09 Oct 2020 01:25

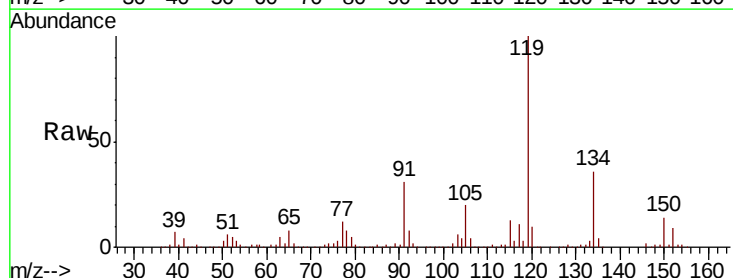
Tgt Ion:146 Resp: 8399

Ion Ratio Lower Upper

146 100

111 52.3 33.8 50.6#

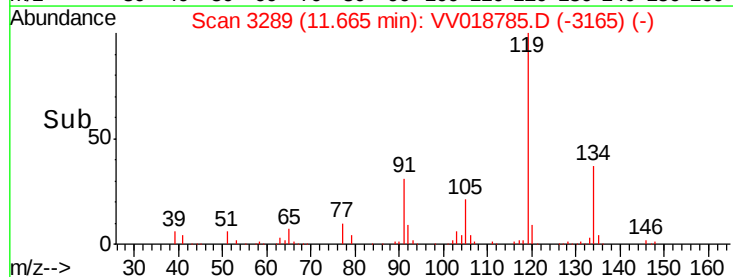
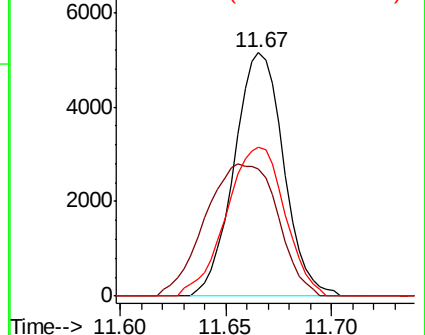
148 61.1 50.3 75.5

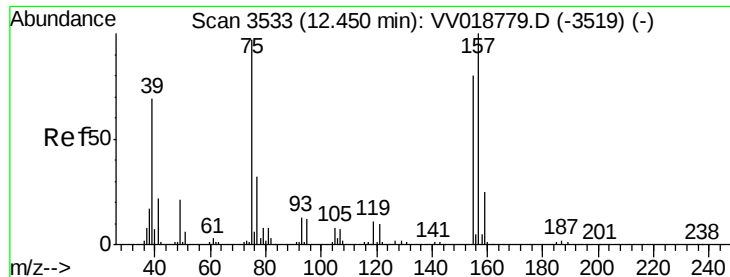


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

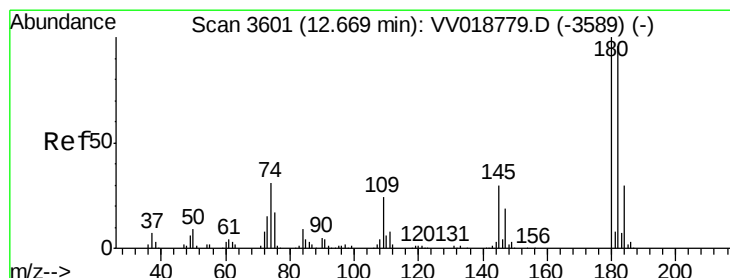
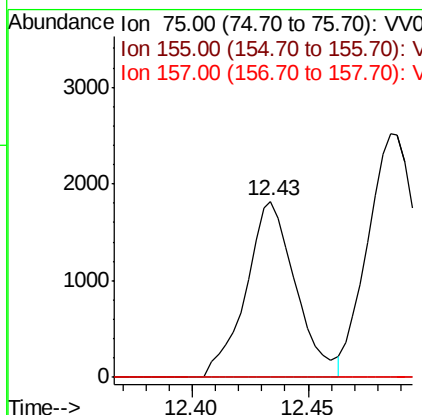
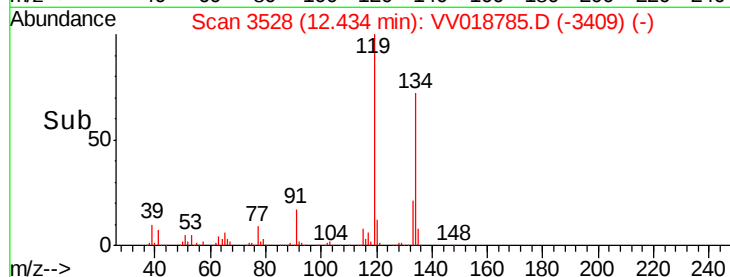
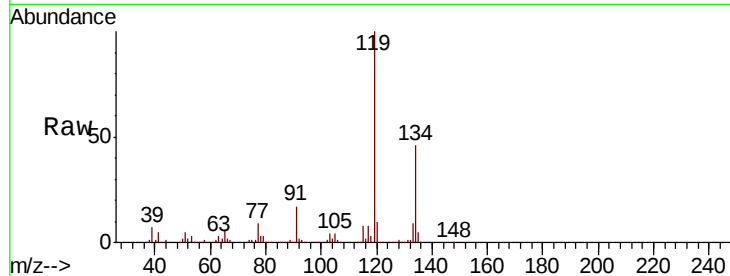




#66
 1,2-Dibromo-3-chloropropane
 Concen: 3.530 ug/L
 RT: 12.43 min Scan# 3528
 Delta R.T. -0.02 min
 Lab File: VV018785.D
 Acq: 09 Oct 2020 01:25

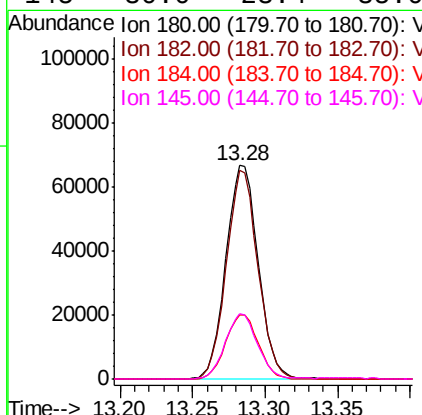
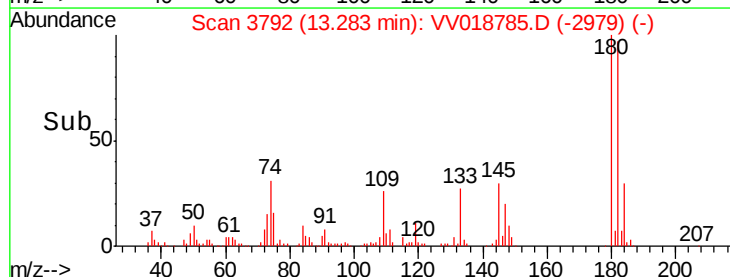
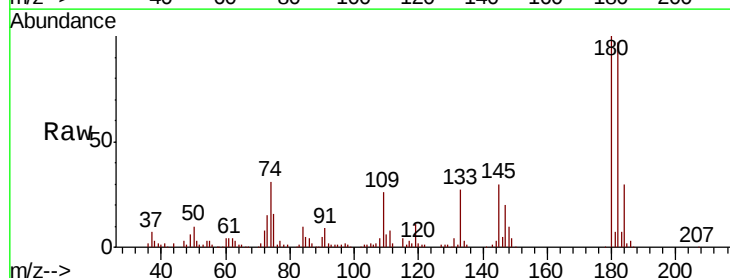
Instrument :
 MSVOA_V
 ClientSampleId :
 BG3P7DL

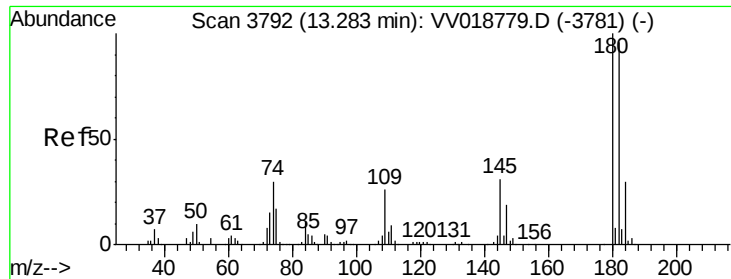
Tot Ion: 75 Resp: 2723
 Ion Ratio Lower Upper
 75 100
 155 0.0 65.8 98.8#
 157 0.0 83.0 124.6#



#67
 1,3,5-Trichlorobenzene
 Concen: 28.516 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.61 min
 Lab File: VV018785.D
 Acq: 09 Oct 2020 01:25

Tgt Ion: 180 Resp: 102876
 Ion Ratio Lower Upper
 180 100
 182 95.1 77.0 115.6
 184 30.3 24.6 37.0
 145 30.0 23.4 35.0

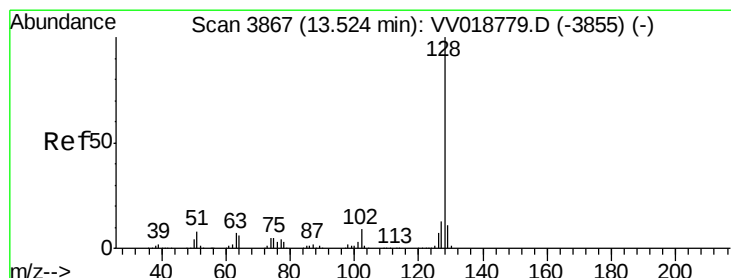
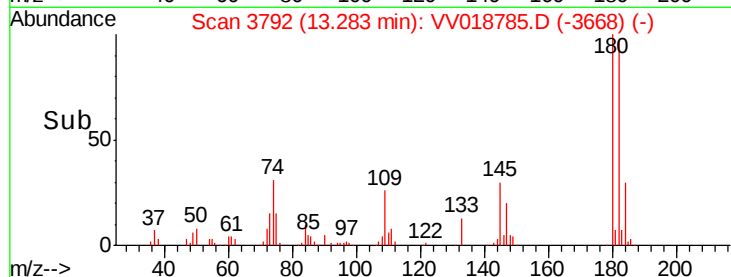
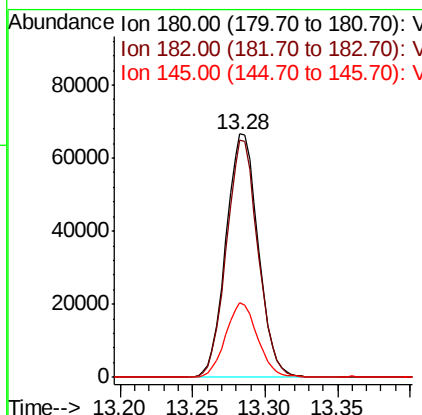
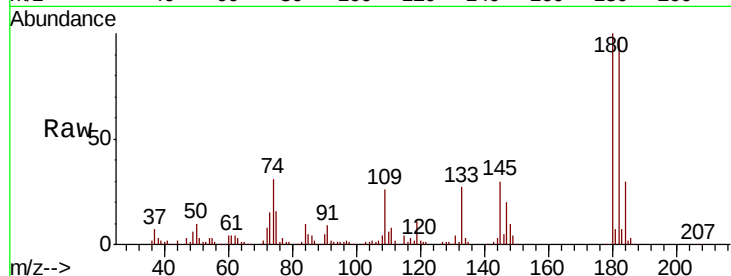




#68
1,2,4-trichlorobenzene
Concen: 30.325 ug/L
RT: 13.28 min Scan# 3792
Delta R.T. -0.00 min
Lab File: VV018785.D
Acq: 09 Oct 2020 01:25

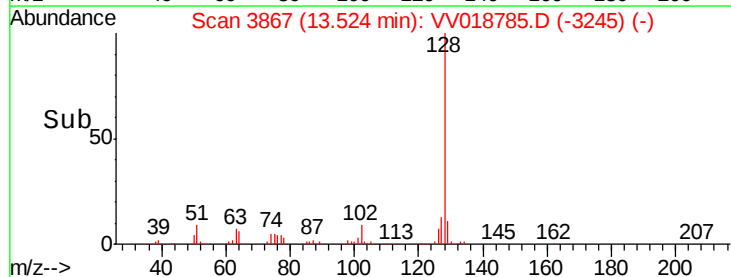
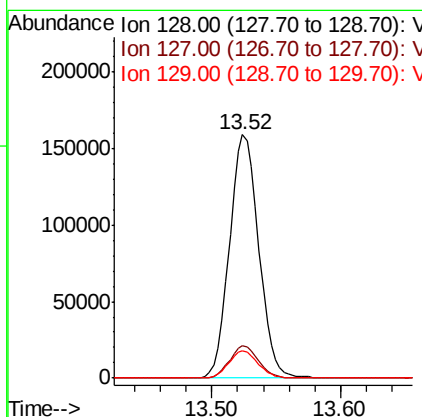
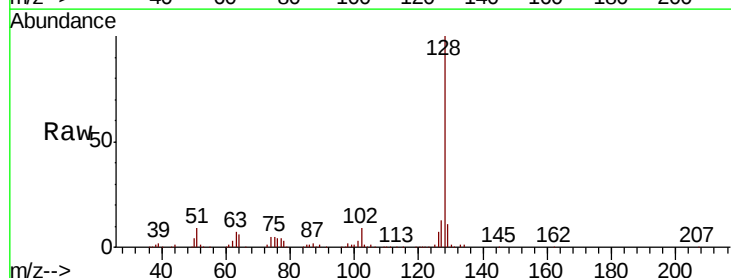
Instrument :
MSVOA_V
ClientSampleId :
BG3P7DL

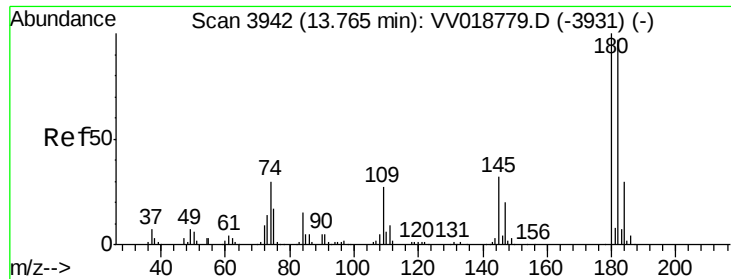
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.7	115.1
145	30.0	24.0	36.0



#69
Naphthalene
Concen: 26.188 ug/L
RT: 13.52 min Scan# 3867
Delta R.T. -0.00 min
Lab File: VV018785.D
Acq: 09 Oct 2020 01:25

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	11.2	8.6	13.0

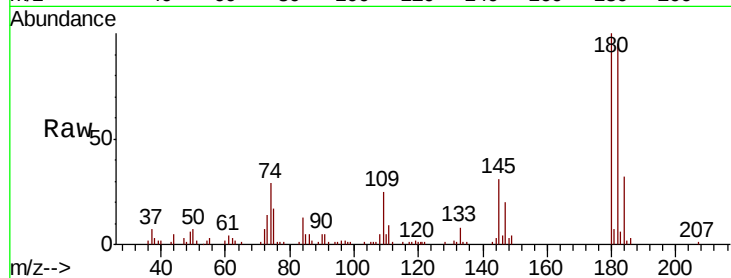




#70
 1,2,3-Trichlorobenzene
 Concen: 9.596 ug/L
 RT: 13.77 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VV018785.D
 Acq: 09 Oct 2020 01:25

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3P7DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.9	75.9	113.9
145	33.1	25.2	37.8



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

