

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062320\
 Data File : VV017032.D
 Acq On : 22 Jun 2020 21:21
 Operator : SY/MD
 Sample : L3067-13
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXH0

Quant Time: Jun 23 04:58:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jun 23 04:53:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	178836	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	175740	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	88818	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	45727	4.26	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.20%
7) Chloroethane-d5	1.58	69	36119	4.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.60%
11) 1,1-Dichloroethene-d2	2.13	63	117937	5.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	115.40%
20) 2-Butanone-d5	3.93	46	136280	49.82	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.64%
24) Chloroform-d	4.38	84	109681	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.60%
26) 1,2-Dichloroethane-d4	5.06	65	59100	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.20%
32) Benzene-d6	5.07	84	210269	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.20%
36) 1,2-Dichloropropane-d6	6.09	67	63655	4.66	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.20%
41) Toluene-d8	7.34	98	197624	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.40%
45) trans-1,3-Dichloropropene-	7.64	79	23841	4.19	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.80%
48) 2-Hexanone-d5	8.11	63	95505	44.09	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.18%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	44706	4.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.60%
65) 1,2-Dichlorobenzene-d4	11.65	152	79488	4.84	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.80%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	16557	1.411 ug/L #	63
8) Chloroethane	1.60	64	20750	3.199 ug/L #	79
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1015	0.107 ug/L #	23
12) 1,1-Dichloroethene	2.14	96	84917	9.894 ug/L #	76
13) Acetone	2.20	43	10460	7.564 ug/L	99
14) Carbon disulfide	2.31	76	2788	0.108 ug/L #	60
18) trans-1,2-Dichloroethene	2.78	96	2093	0.230 ug/L	92
19) 1,1-Dichloroethane	3.21	63	1902487	93.096 ug/L	99
22) cis-1,2-Dichloroethene	3.94	96	44704	3.594 ug/L #	97
27) 1,2-Dichloroethane	5.16	62	2261	0.163 ug/L #	76
29) 1,1,1-Trichloroethane	4.64	97	6013751	285.623 ug/L	98
31) Carbon tetrachloride	4.64	117	744840	39.205 ug/L	99
33) Benzene	5.13	78	30261	0.658 ug/L	100
34) Trichloroethene	5.94	95	2051	0.152 ug/L	93
39) cis-1,3-Dichloropropene	7.01	75	2090	0.123 ug/L #	66
42) Toluene	7.41	91	8165	0.153 ug/L	89
43) 1,3,5-Trimethylbenzene	10.56	105	1488	0.031 ug/L	87

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ALS Vial : 14 Sample Multiplier: 1

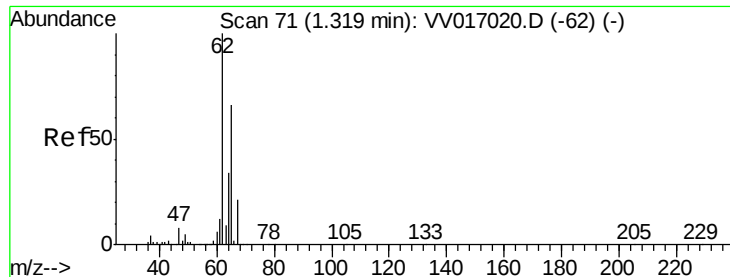
Instrument :
MSVOA_V
ClientSampleId :
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Quant Time: Jun 23 04:58:33 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jun 23 04:53:49 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,2,4-Trimethylbenzene	10.94	105	9274	0.190	ug/L	100
46) trans-1,3-Dichloropropene	7.64	75	1401	0.096	ug/L #	75
47) 1,1,2-Trichloroethane	7.87	97	1045	0.129	ug/L	87
49) Tetrachloroethene	8.00	164	1434	0.132	ug/L #	77
50) 2-Hexanone	8.17	43	2773	0.592	ug/L #	46
51) Dibromochloromethane	8.00	129	1557	0.159	ug/L #	11
53) Chlorobenzene	8.90	112	20181	0.605	ug/L	97
58) Isopropylbenzene	9.95	105	6747	0.117	ug/L #	96
64) 1,4-Dichlorobenzene	11.29	146	2188	0.081	ug/L #	89
66) 1,2-Dichlorobenzene	11.67	146	9284	0.383	ug/L	95

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

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ALS Vial : 14 Sample Multiplier: 1



#5

Vinyl chloride

Concen: 1.411 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

Instrument :

MSVOA_V

ClientSampleId :

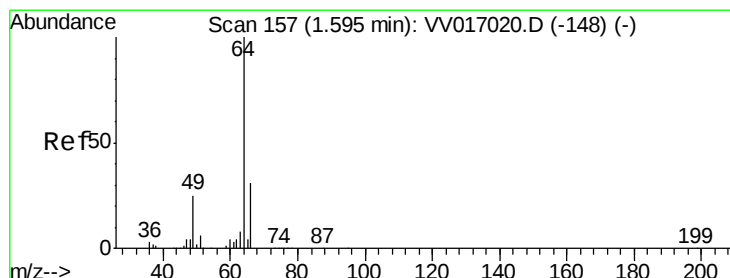
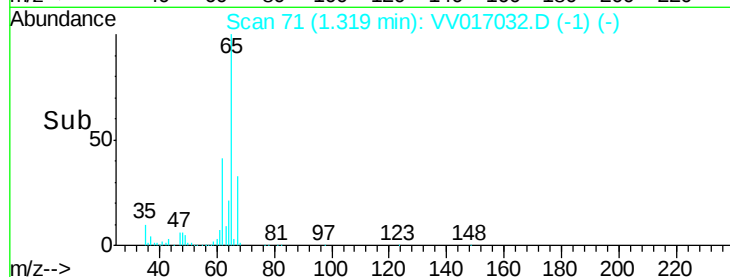
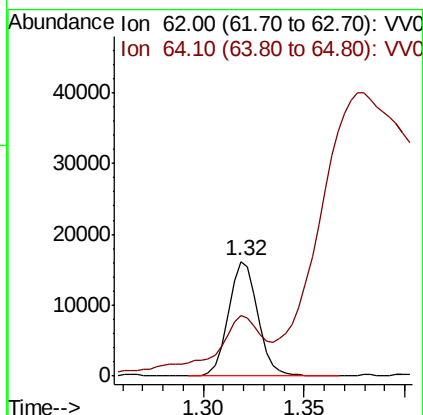
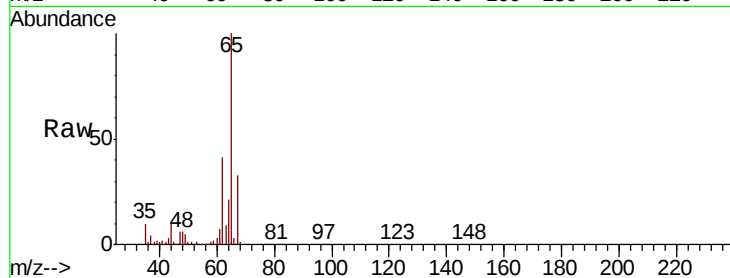
BFXH0

Tot Ion: 62 Resp: 16557

Ion Ratio Lower Upper

62 100

64 52.6 22.5 41.7#



#8

Chloroethane

Concen: 3.199 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV017032.D

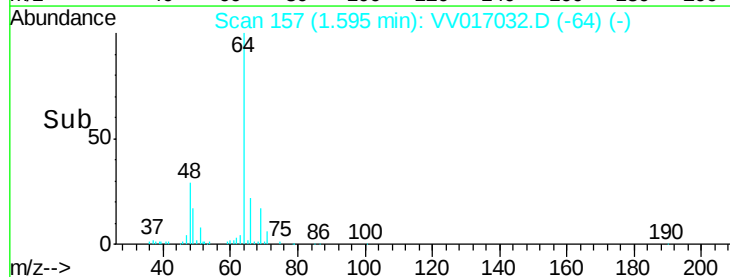
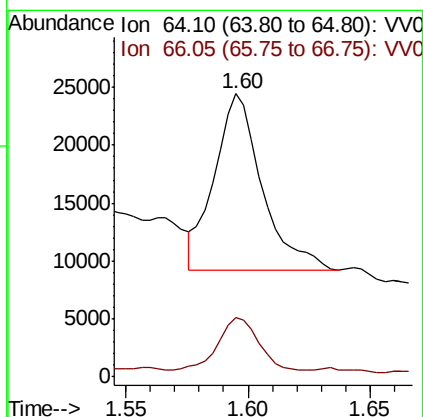
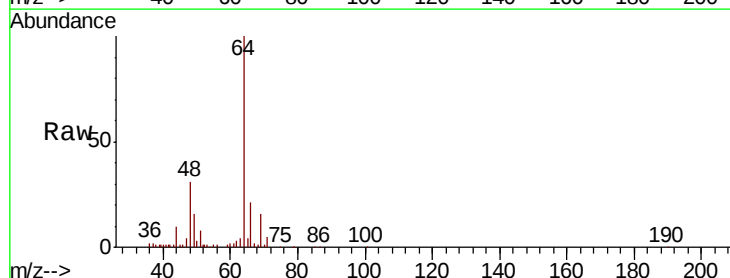
Acq: 22 Jun 2020 21:21

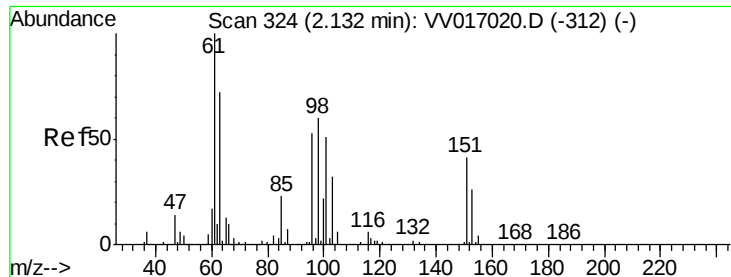
Tgt Ion: 64 Resp: 20750

Ion Ratio Lower Upper

64 100

66 20.9 22.8 42.4#





#10

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

Concen: 0.107 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

Instrument :

MSVOA_V

ClientSampleId :

BFXH0

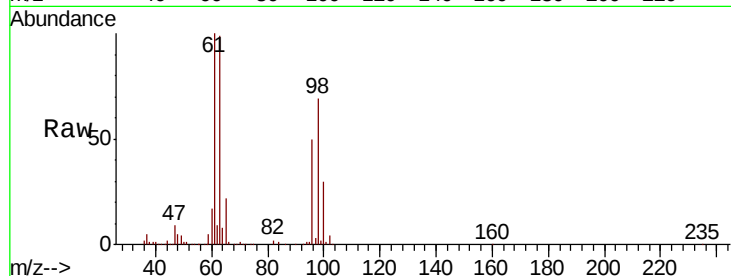
Tot Ion:101 Resp: 1015

Ion Ratio Lower Upper

101 100

85 6.8 35.4 53.2#

151 2.0 63.9 95.9#



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

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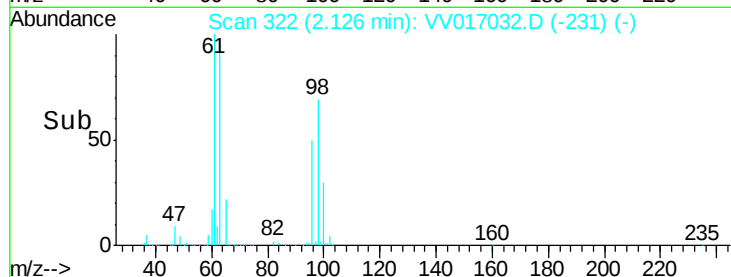
2.13

2.13

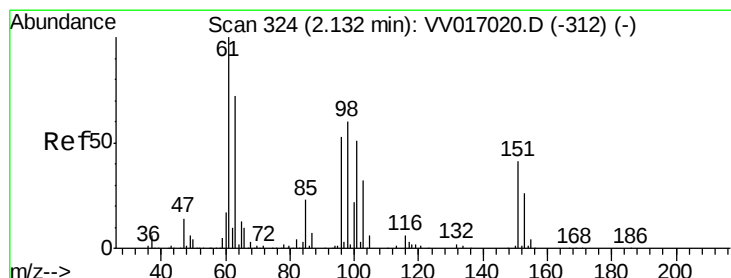
2.13

2.13

2.13



Time-->



#12

1,1-Dichloroethene

Concen: 9.894 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

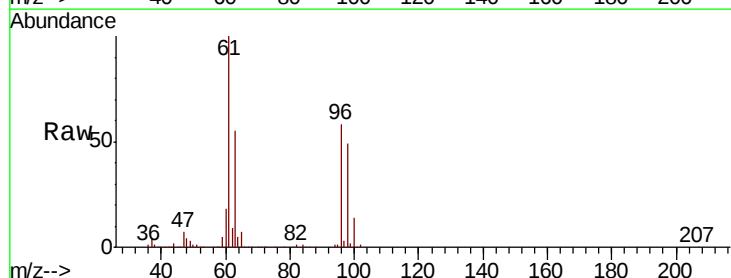
Tgt Ion: 96 Resp: 84917

Ion Ratio Lower Upper

96 100

61 172.9 125.0 232.2

63 94.6 109.8 203.8#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

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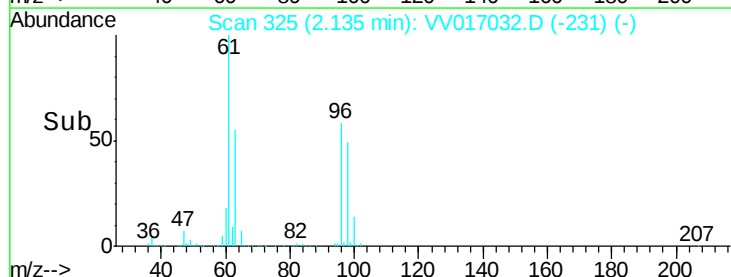
2.14

2.14

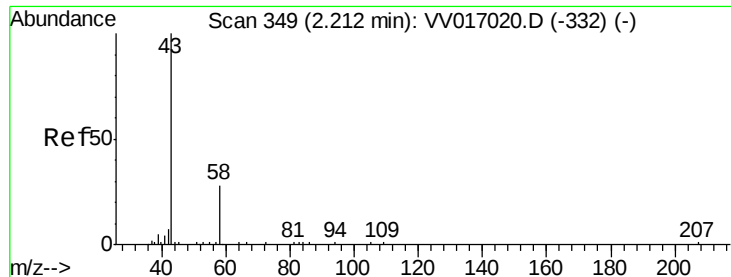
2.14

2.14

2.14



Time-->



#13

Acetone

Concen: 7.564 ug/L

RT: 2.20 min Scan# 346

Delta R.T. -0.01 min

Lab File: VV017032.D

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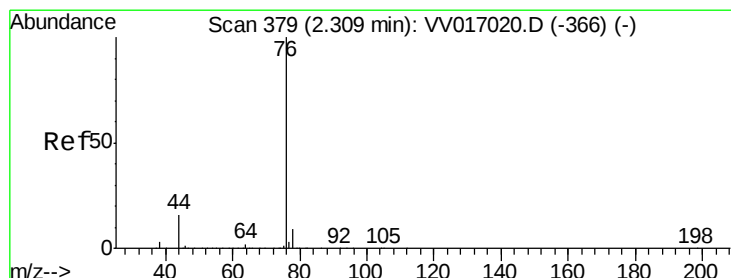
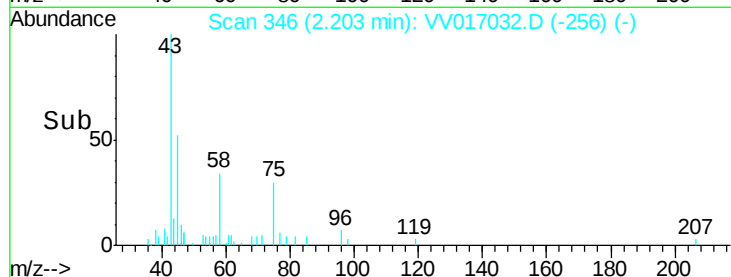
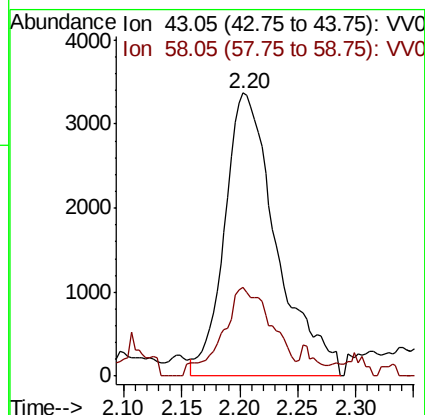
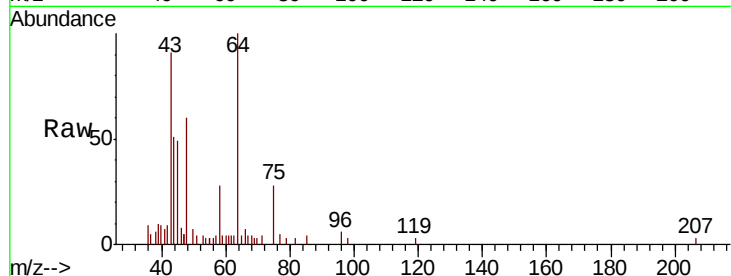
BFXH0

Tot Ion: 43 Resp: 10460

Ion Ratio Lower Upper

43 100

58 29.8 0.0 58.4



#14

Carbon disulfide

Concen: 0.108 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV017032.D

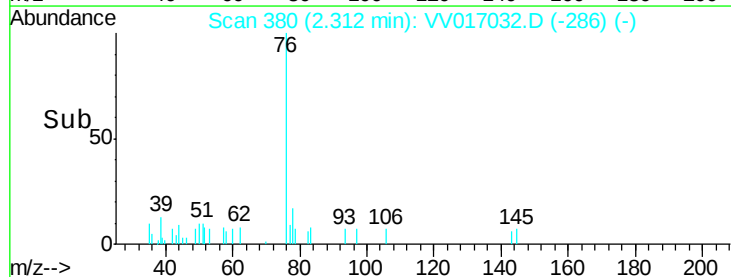
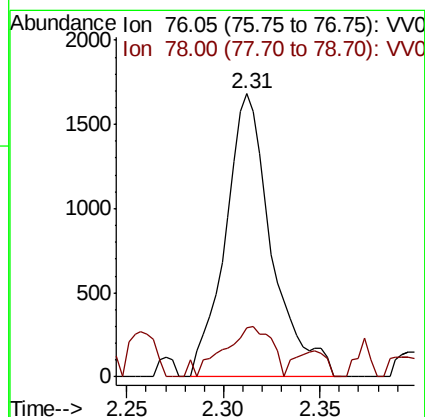
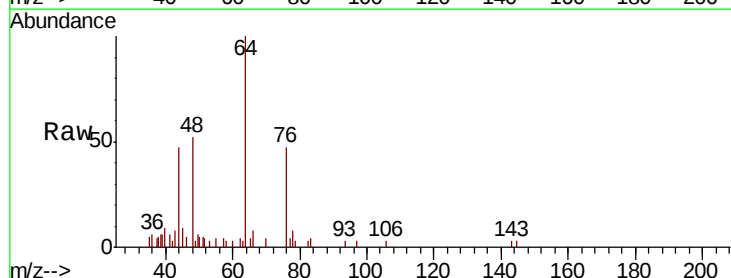
Acq: 22 Jun 2020 21:21

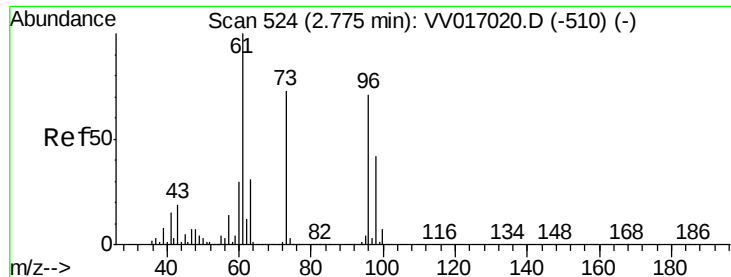
Tgt Ion: 76 Resp: 2788

Ion Ratio Lower Upper

76 100

78 24.4 7.7 11.5#





#18

trans-1,2-Dichloroethene

Concen: 0.230 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

Instrument :

MSVOA_V

ClientSampleId :

BFXH0

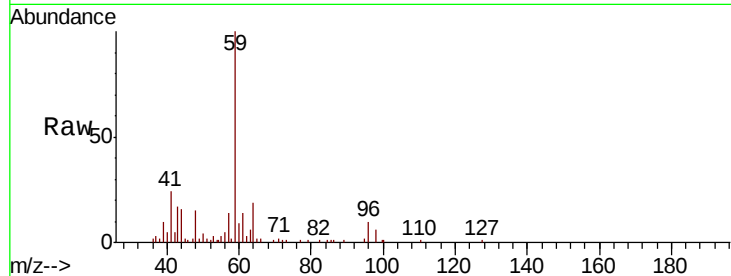
Tot Ion: 96 Resp: 2093

Ion Ratio Lower Upper

96 100

61 132.1 102.3 189.9

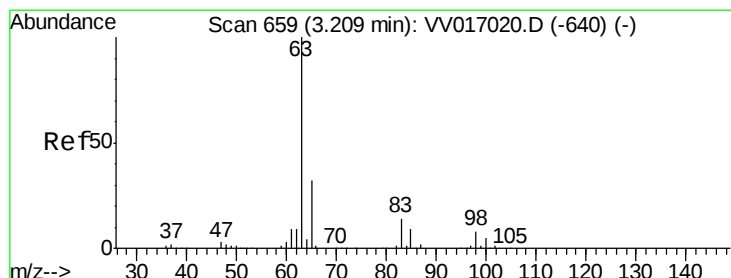
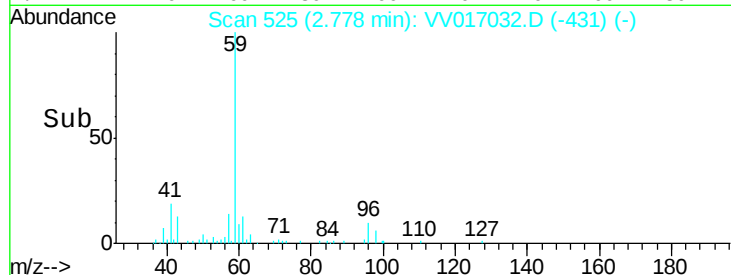
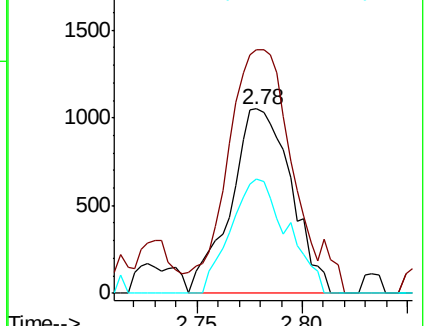
98 62.2 44.7 82.9



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0



#19

1,1-Dichloroethane

Concen: 93.096 ug/L

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

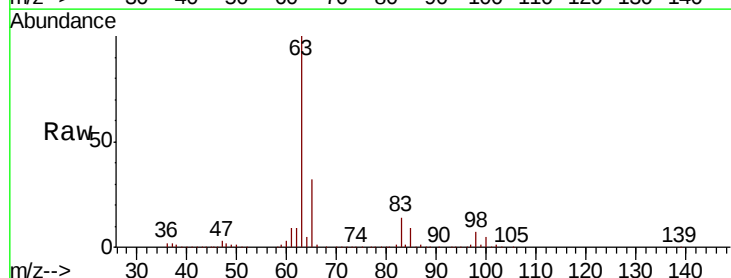
Tgt Ion: 63 Resp: 1902487

Ion Ratio Lower Upper

63 100

65 32.1 21.8 40.4

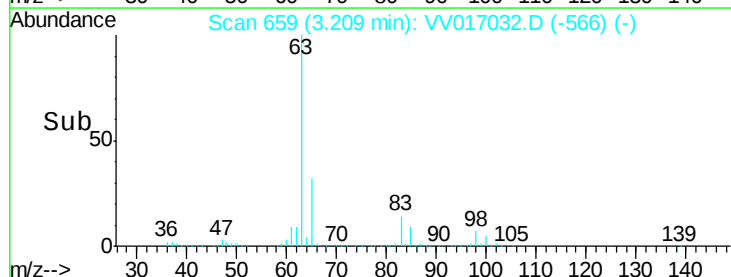
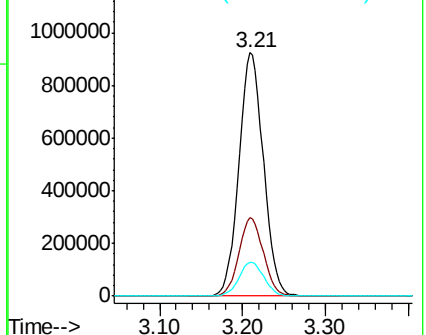
83 14.1 9.7 17.9

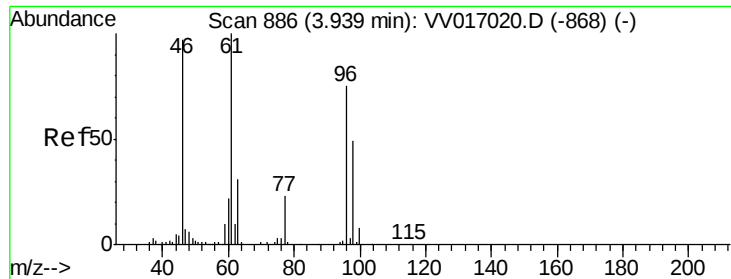


Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



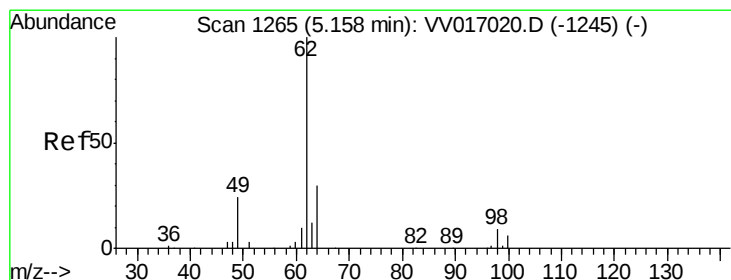
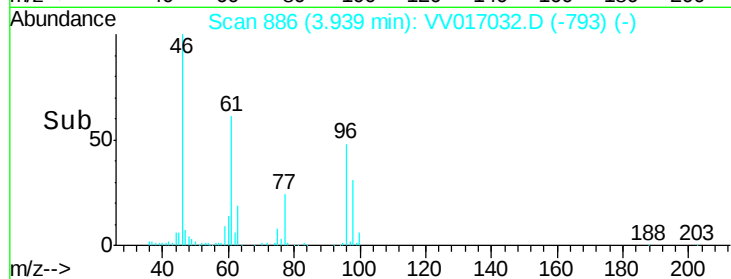
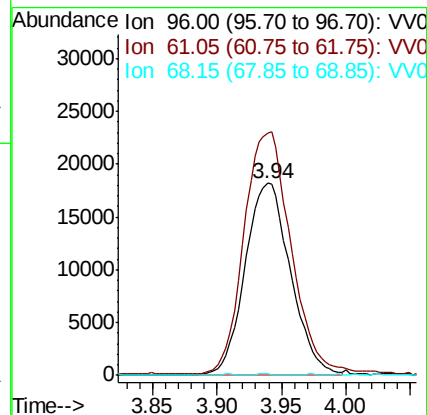
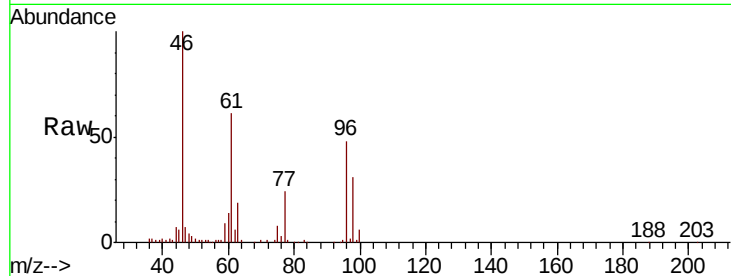


#22

cis-1,2-Dichloroethene
 Concen: 3.594 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. -0.00 min
 Lab File: VV017032.D
 Acq: 22 Jun 2020 21:21

Instrument :
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 BFXH0

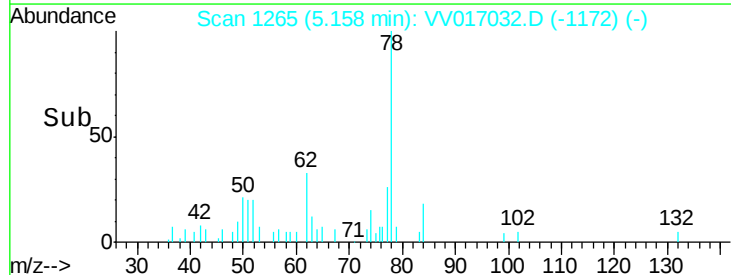
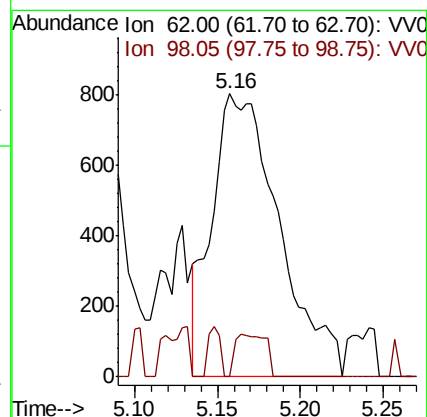
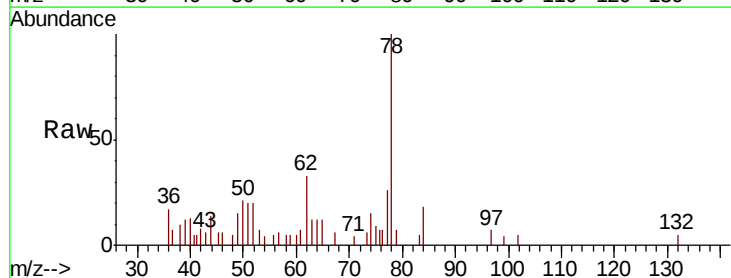
Tot Ion: 96 Resp: 44704
 Ion Ratio Lower Upper
 96 100
 61 126.5 91.0 169.0
 68 0.7 0.0 0.0#

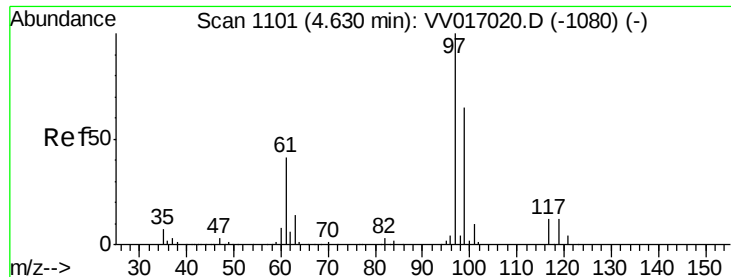


#27

1,2-Dichloroethane
 Concen: 0.163 ug/L
 RT: 5.16 min Scan# 1265
 Delta R.T. -0.00 min
 Lab File: VV017032.D
 Acq: 22 Jun 2020 21:21

Tgt Ion: 62 Resp: 2261
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.7 10.1#

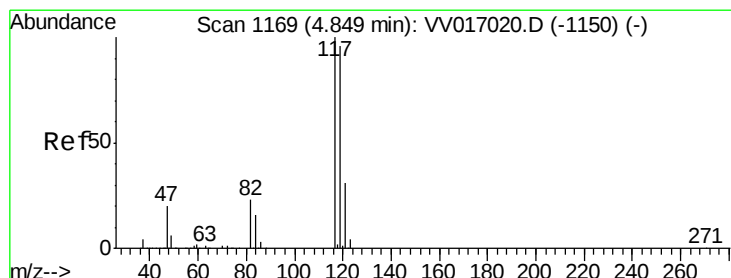
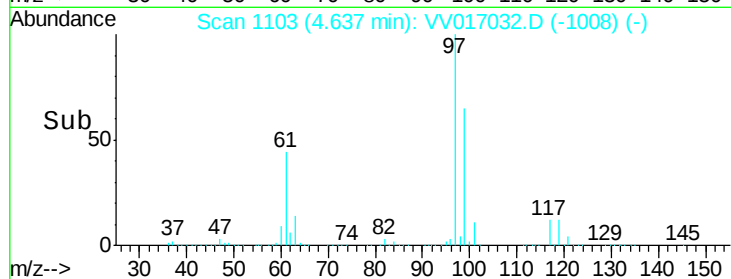
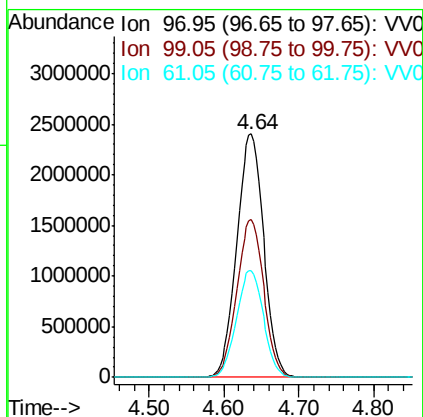
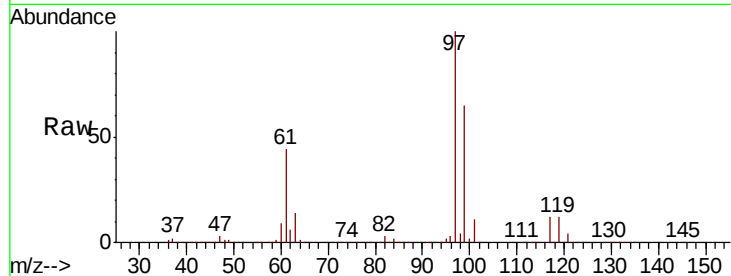




#29
 1,1,1-Trichloroethane
 Concen: 285.623 ug/L
 RT: 4.64 min Scan# 1103
 Delta R.T. 0.01 min
 Lab File: VV017032.D
 Acq: 22 Jun 2020 21:21

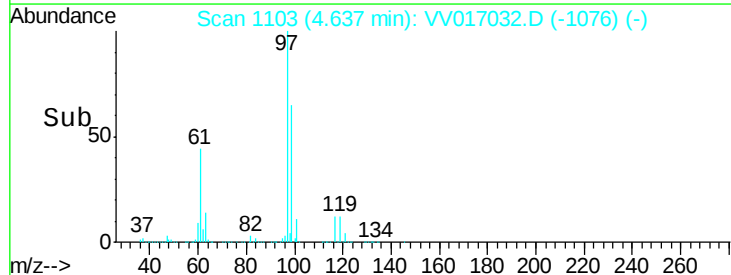
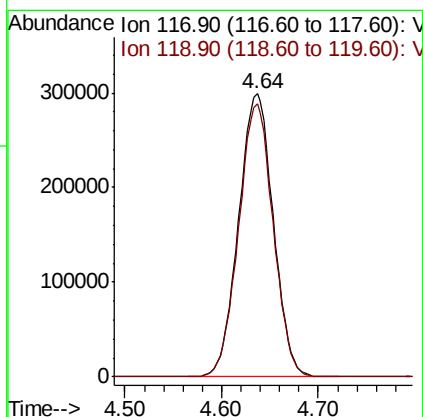
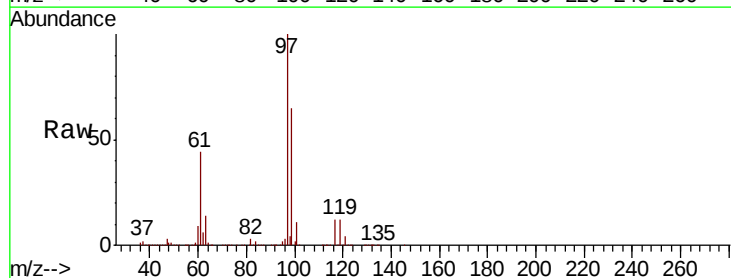
Instrument :
 MSVOA_V
 ClientSampleId :
 BFXH0

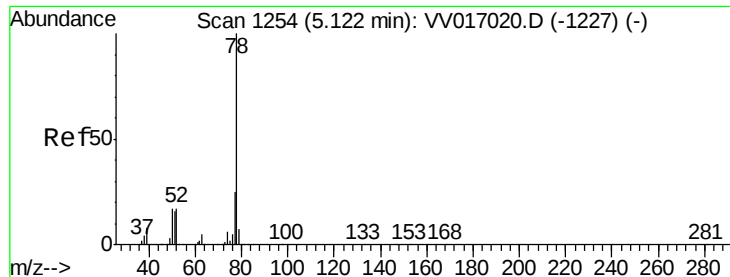
Tot Ion: 97 Resp: 6013751
 Ion Ratio Lower Upper
 97 100
 99 64.7 50.3 75.5
 61 44.0 36.0 54.0



#31
 Carbon tetrachloride
 Concen: 39.205 ug/L
 RT: 4.64 min Scan# 1103
 Delta R.T. -0.21 min
 Lab File: VV017032.D
 Acq: 22 Jun 2020 21:21

Tgt Ion: 117 Resp: 744840
 Ion Ratio Lower Upper
 117 100
 119 96.0 77.8 116.8





#33

Benzene

Concen: 0.658 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

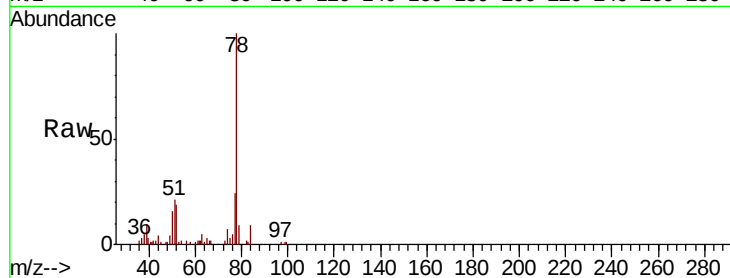
Instrument :

MSVOA_V

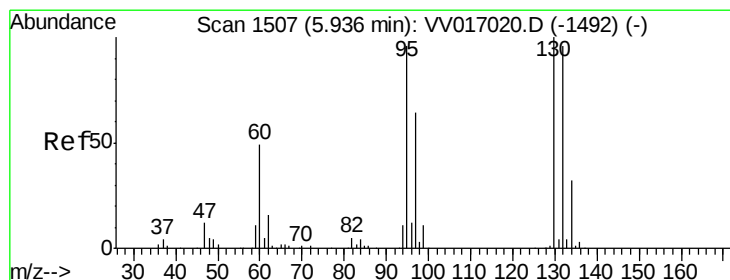
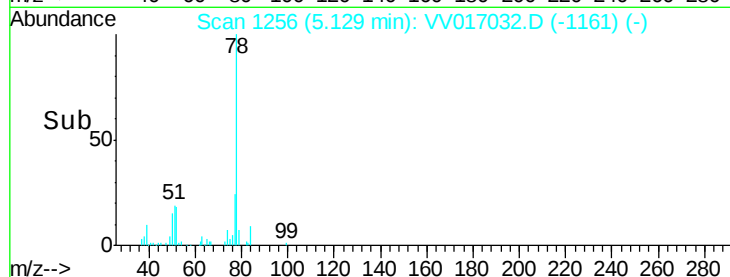
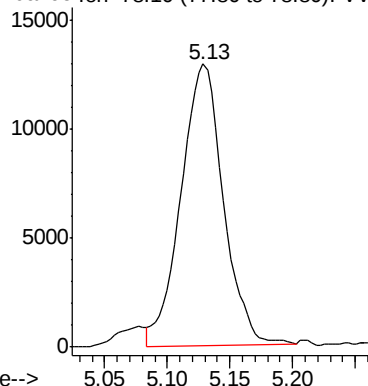
ClientSampleId :

BFXH0

Tgt Ion: 78 Resp: 30261



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 0.152 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

Tgt Ion: 95 Resp: 2051

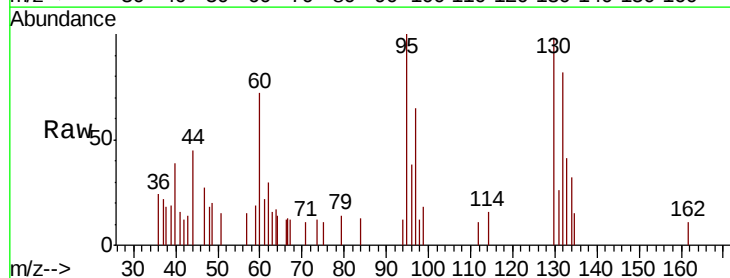
Ion	Ratio	Lower	Upper
95	100		
97	65.4	45.3	84.1
132	81.7	68.8	127.8
130	97.6	70.2	130.4

Ion 95.00 (94.70 to 95.70): VV0

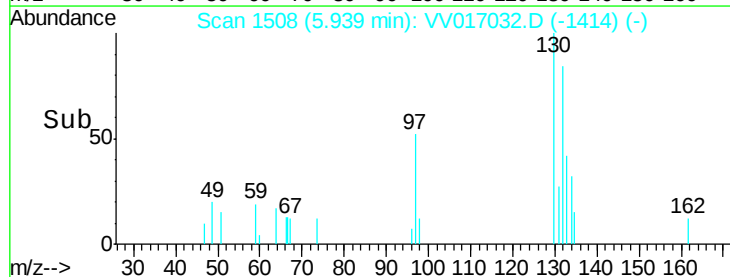
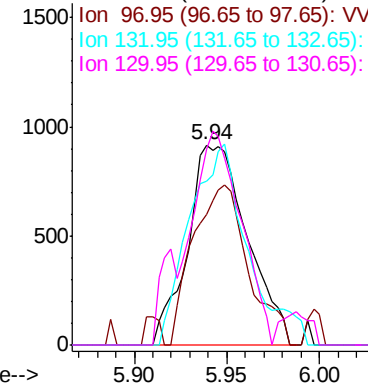
Ion 96.95 (96.65 to 97.65): VV0

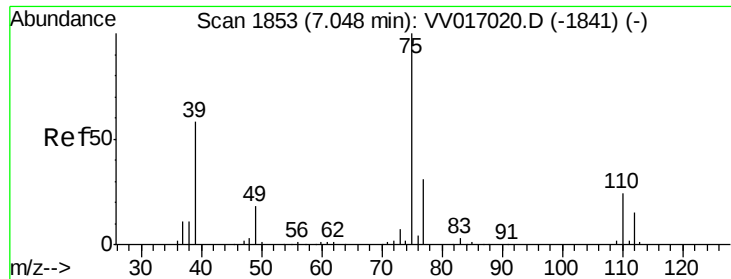
Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



Abundance Ion 95.00 (94.70 to 95.70): VV0





#39

cis-1,3-Dichloropropene

Concen: 0.123 ug/L

RT: 7.01 min Scan# 1841

Delta R.T. -0.04 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

Instrument :

MSVOA_V

ClientSampleId :

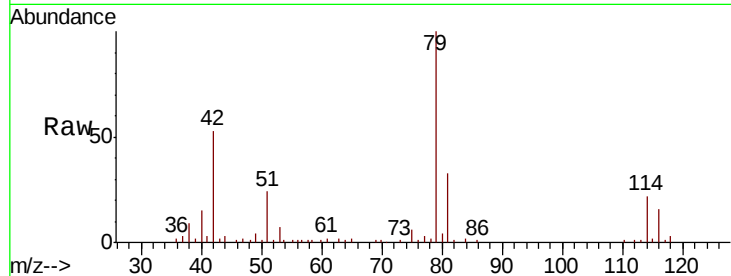
BFXH0

Tot Ion: 75 Resp: 2090

Ion Ratio Lower Upper

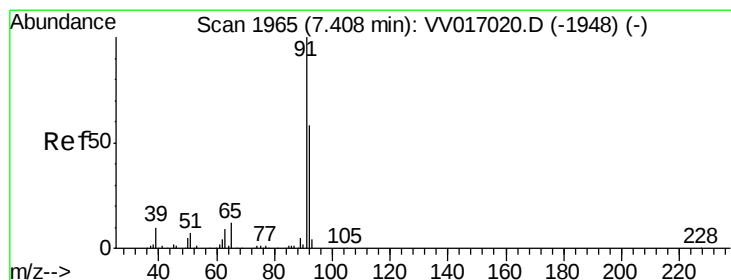
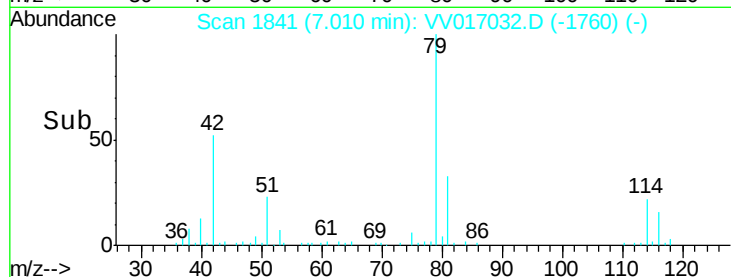
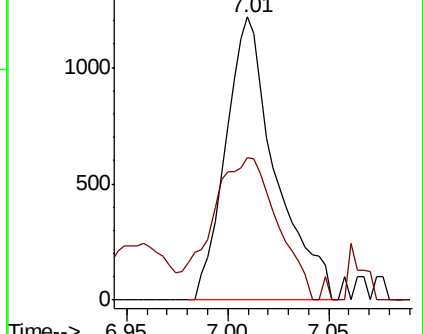
75 100

77 50.6 22.3 41.5#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#42

Toluene

Concen: 0.153 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV017032.D

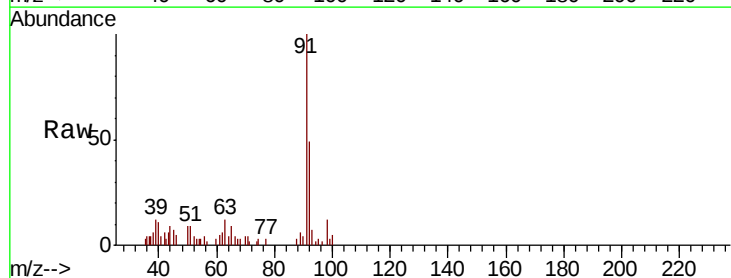
Acq: 22 Jun 2020 21:21

Tgt Ion: 91 Resp: 8165

Ion Ratio Lower Upper

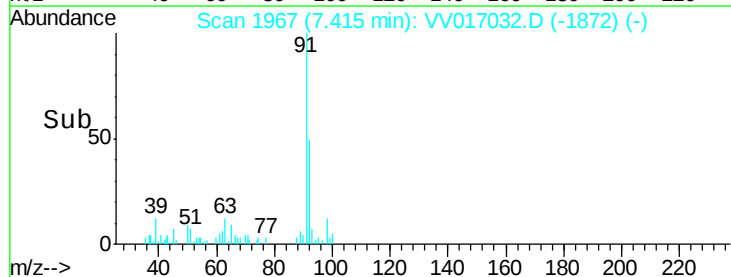
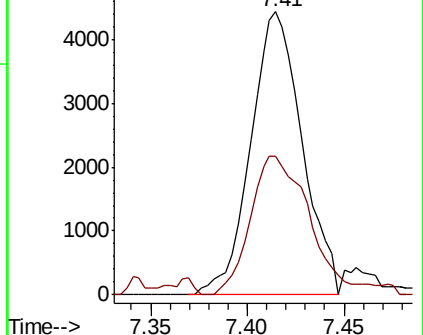
91 100

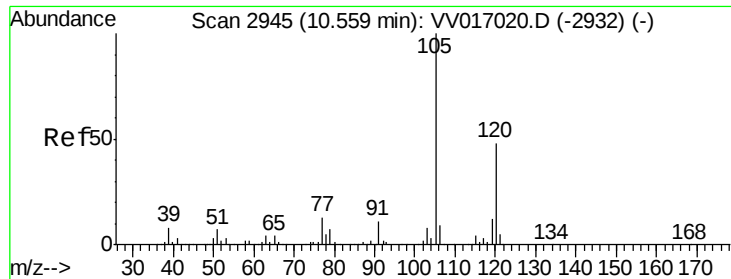
92 48.9 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

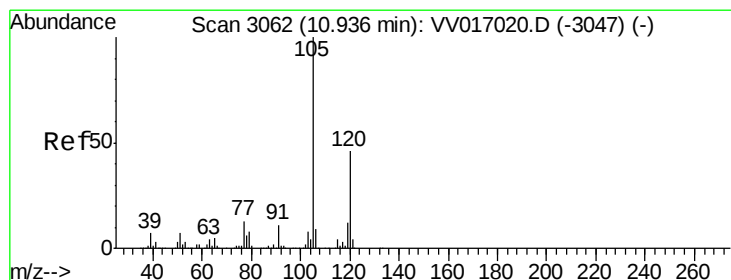
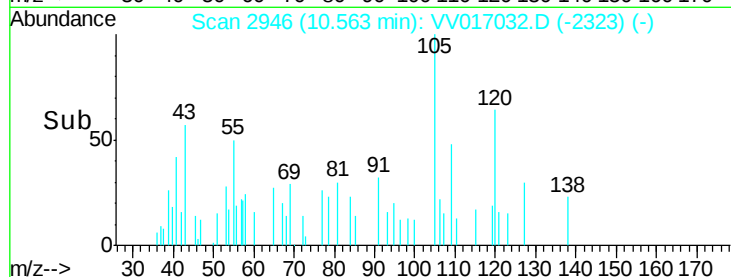
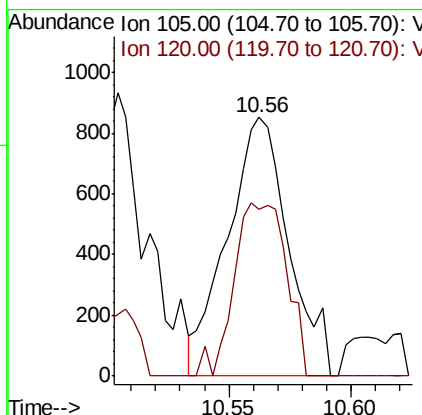
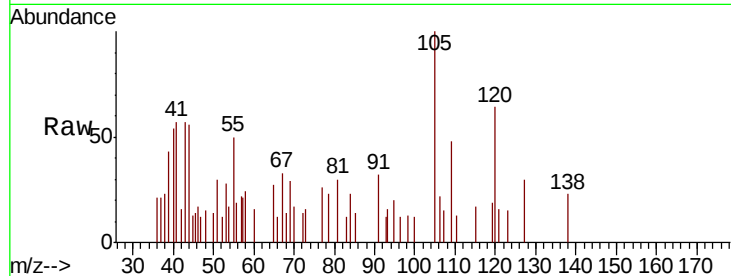




#43
 1,3,5-Trimethylbenzene
 Concen: 0.031 ug/L
 RT: 10.56 min Scan# 2946
 Delta R.T. 0.00 min
 Lab File: VV017032.D
 Acq: 22 Jun 2020 21:21

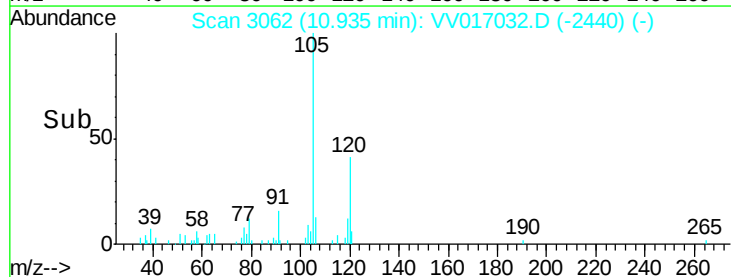
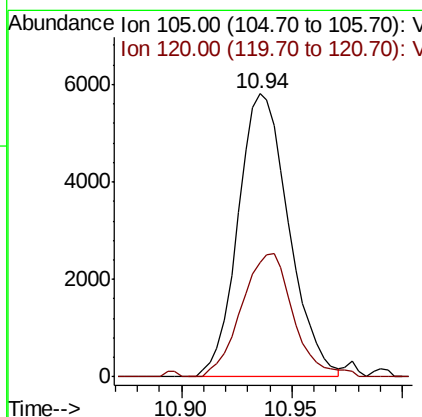
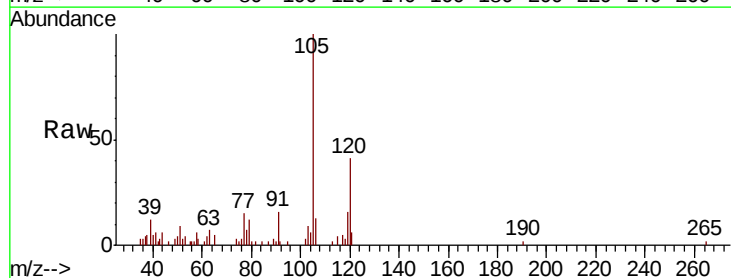
Instrument :
 MSVOA_V
 ClientSampled :
 BFXH0

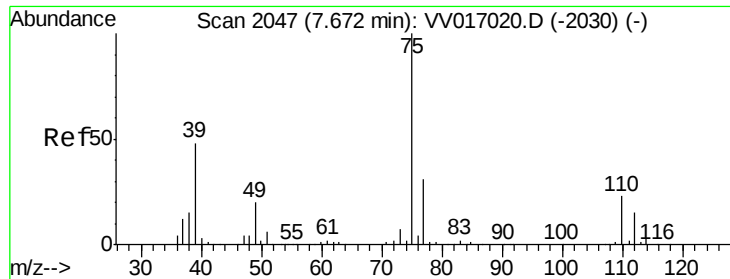
Tot Ion:105 Resp: 1488
 Ion Ratio Lower Upper
 105 100
 120 57.1 38.6 57.8



#44
 1,2,4-Trimethylbenzene
 Concen: 0.190 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. -0.00 min
 Lab File: VV017032.D
 Acq: 22 Jun 2020 21:21

Tgt Ion:105 Resp: 9274
 Ion Ratio Lower Upper
 105 100
 120 44.5 35.8 53.8





#46

trans-1,3-Dichloropropene

Concen: 0.096 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. -0.03 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

Instrument :

MSVOA_V

ClientSampleId :

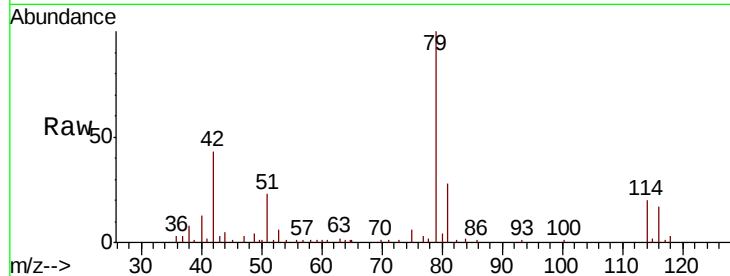
BFXH0

Tot Ion: 75 Resp: 1401

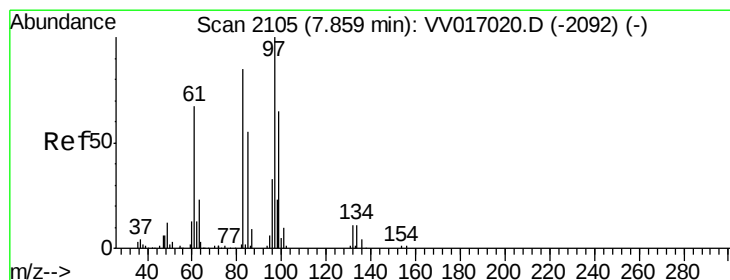
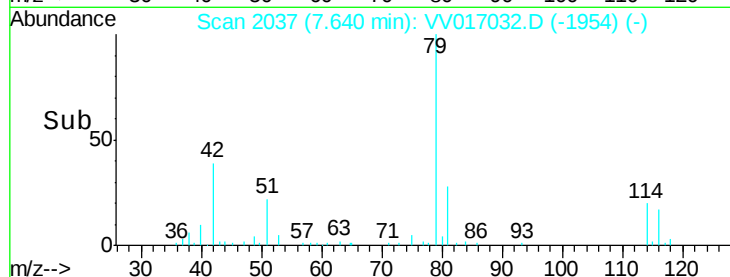
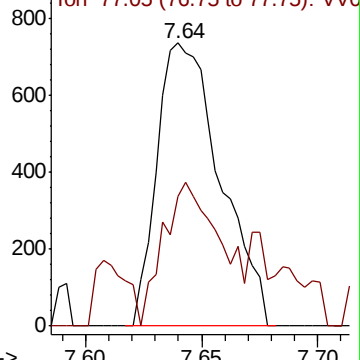
Ion Ratio Lower Upper

75 100

77 45.7 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VV017032.D (-1954) (-)



#47

1,1,2-Trichloroethane

Concen: 0.129 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.02 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

Tgt Ion: 97 Resp: 1045

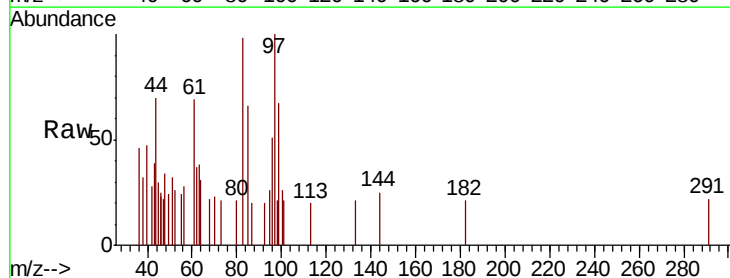
Ion Ratio Lower Upper

97 100

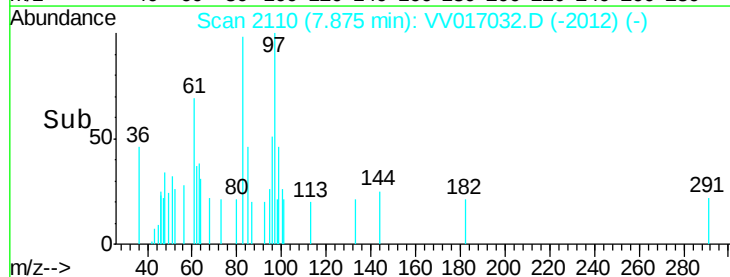
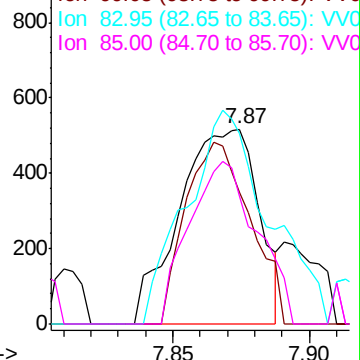
99 67.4 43.6 81.0

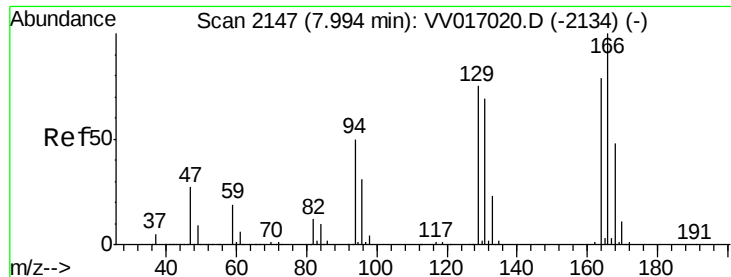
83 97.9 57.4 106.6

85 65.8 38.8 72.0



Abundance Ion 96.95 (96.65 to 97.65): VV017032.D (-2012) (-)





#49

Tetrachloroethene

Concen: 0.132 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.01 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

Instrument :

MSVOA_V

ClientSampleId :

BFXH0

Tot Ion:164 Resp: 1434

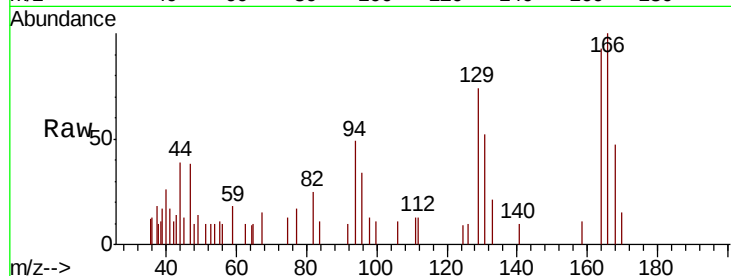
Ion Ratio Lower Upper

164 100

129 79.7 65.2 121.0

131 56.0 64.1 119.1#

166 107.1 90.2 167.4

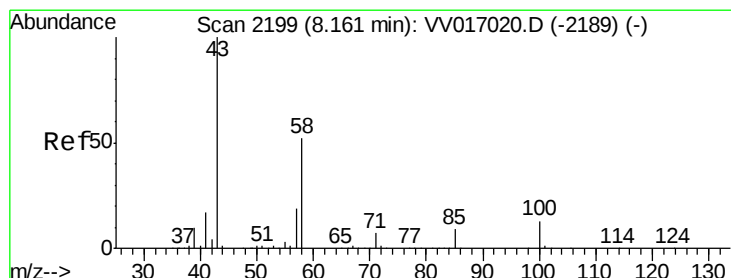
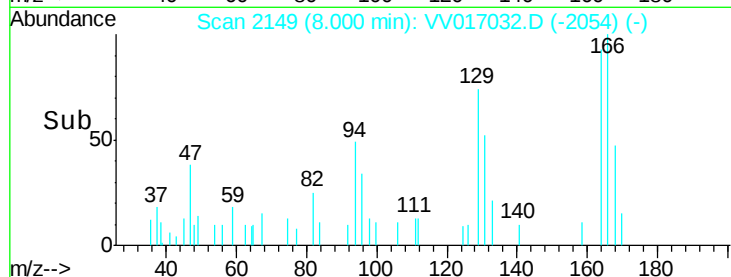
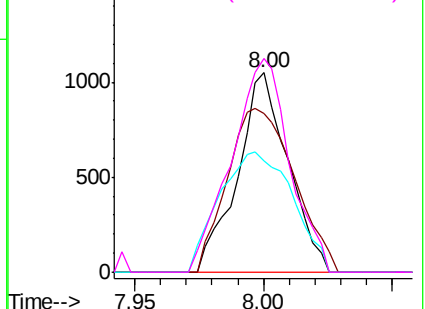


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#50

2-Hexanone

Concen: 0.592 ug/L

RT: 8.17 min Scan# 2203

Delta R.T. 0.01 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

Tgt Ion: 43 Resp: 2773

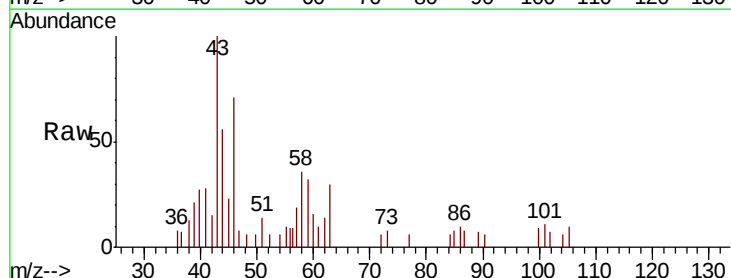
Ion Ratio Lower Upper

43 100

58 0.0 41.6 62.4#

57 7.2 15.4 23.0#

100 6.7 10.1 15.1#

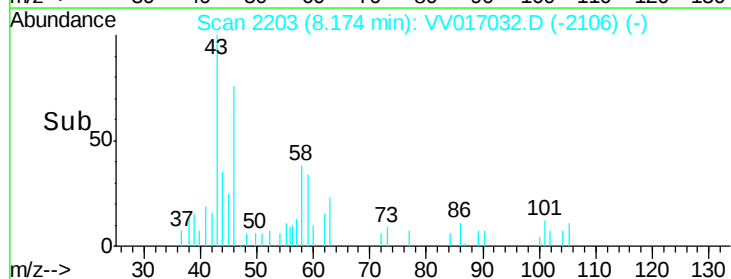
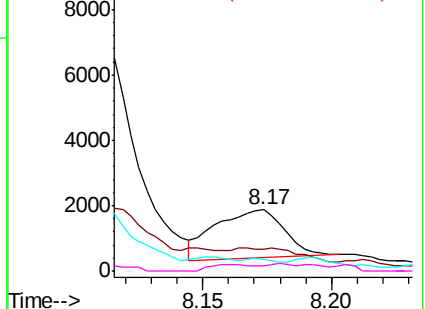


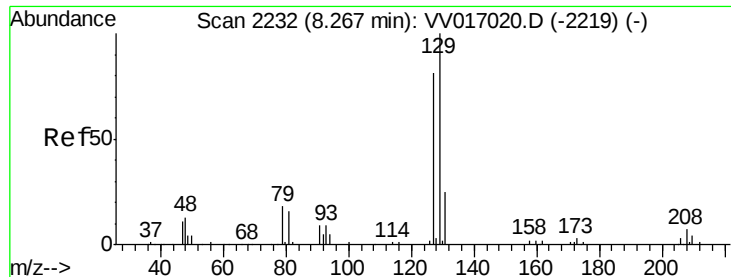
Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0





#51

Dibromochloromethane

Concen: 0.159 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.27 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

Instrument :

MSVOA_V

ClientSampleId :

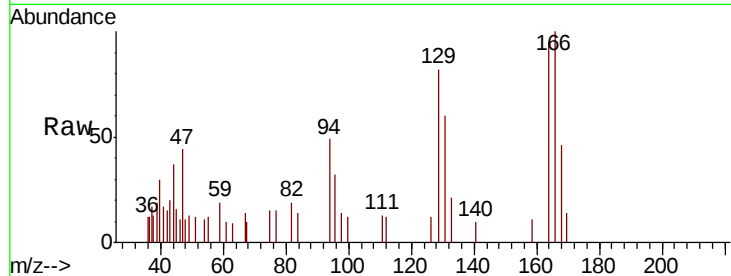
BFXH0

Tot Ion:129 Resp: 1557

Ion Ratio Lower Upper

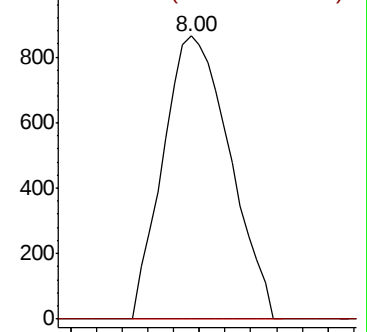
129 100

127 0.0 54.1 100.5#

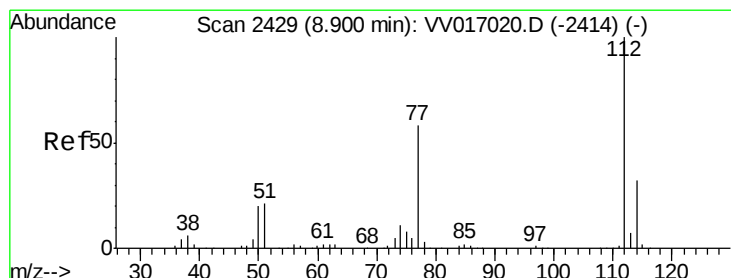
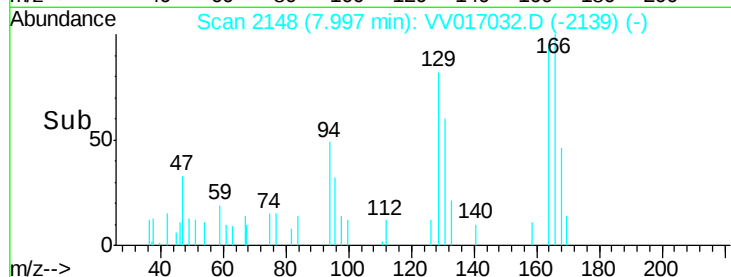


Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



Time-->



#53

Chlorobenzene

Concen: 0.605 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

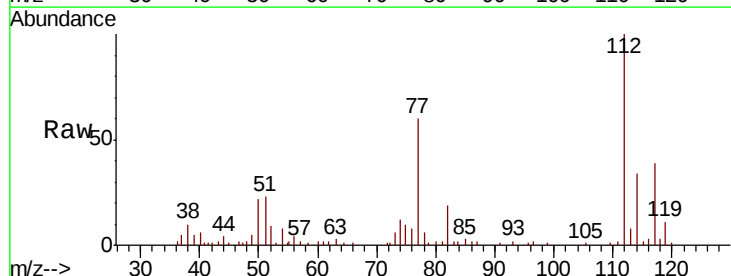
Tgt Ion:112 Resp: 20181

Ion Ratio Lower Upper

112 100

114 33.8 22.0 41.0

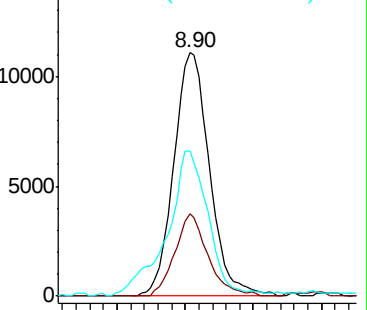
77 59.8 46.0 69.0



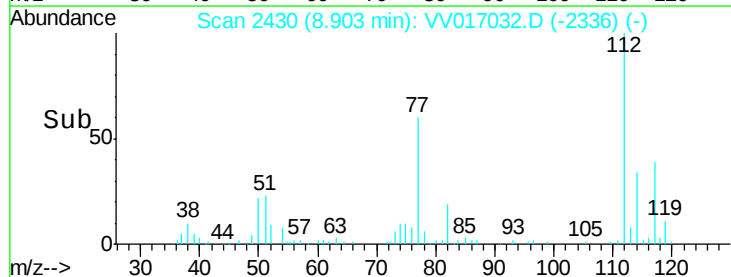
Abundance Ion 112.10 (111.80 to 112.80): V

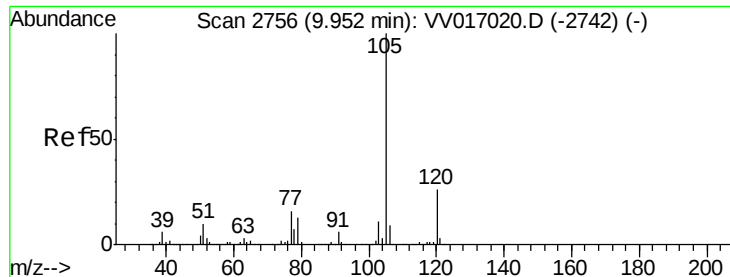
Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0



Time-->





#58

Isopropylbenzene

Concen: 0.117 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

Instrument :

MSVOA_V

ClientSampled :

BFXH0

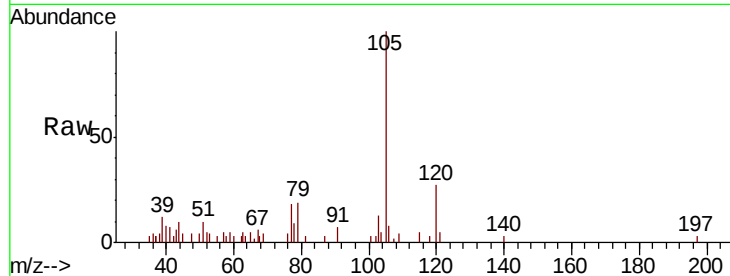
Tot Ion:105 Resp: 6747

Ion Ratio Lower Upper

105 100

120 26.5 21.2 31.8

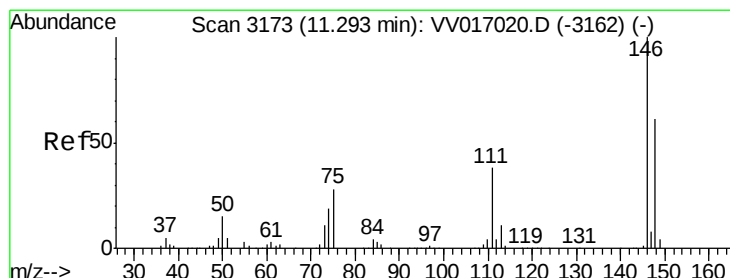
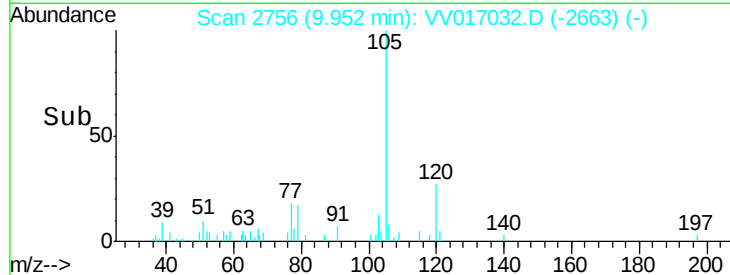
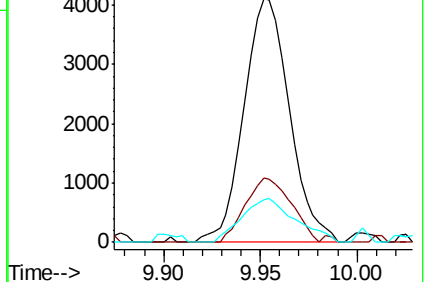
77 21.0 13.0 19.4#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#64

1,4-Dichlorobenzene

Concen: 0.081 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. -0.00 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

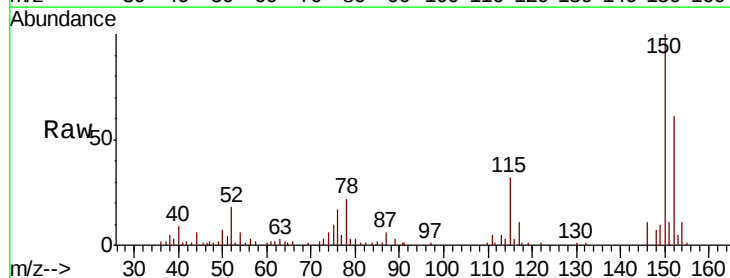
Tgt Ion:146 Resp: 2188

Ion Ratio Lower Upper

146 100

111 56.6 27.4 50.8#

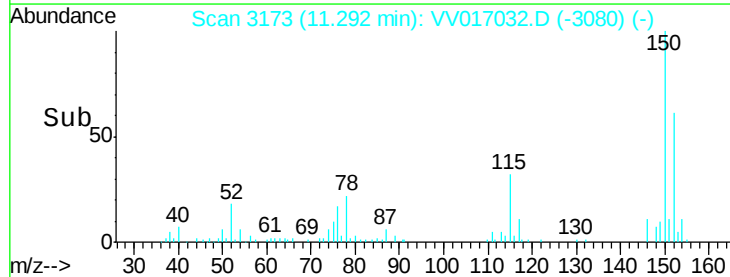
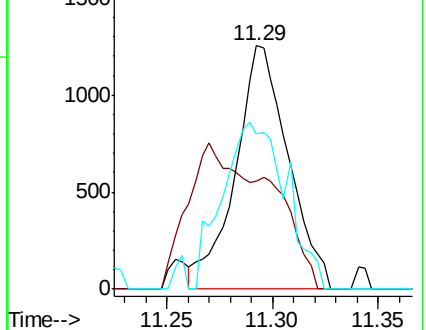
148 63.8 44.3 82.3

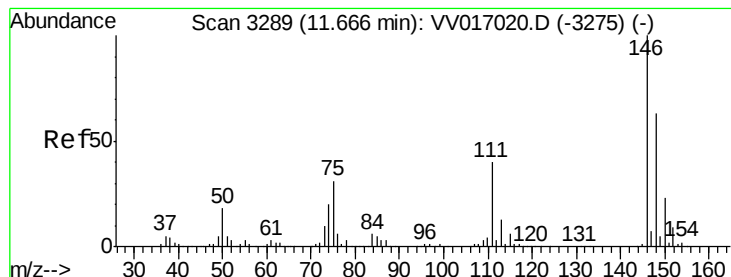


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#66

1,2-Dichlorobenzene

Concen: 0.383 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV017032.D

Acq: 22 Jun 2020 21:21

Instrument :

MSVOA_V

ClientSampleId :

BFXH0

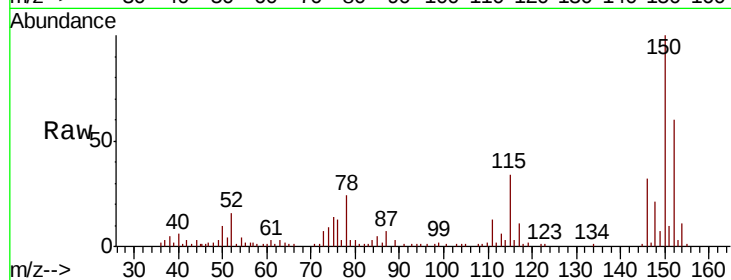
Tot Ion:146 Resp: 9284

Ion Ratio Lower Upper

146 100

111 42.0 34.4 51.6

148 68.1 49.9 74.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

