

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061220\
 Data File : VV016878.D
 Acq On : 12 Jun 2020 14:50
 Operator : SY/MD
 Sample : L2947-01
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXE0

Quant Time: Jun 13 01:42:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM060820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jun 13 01:34:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	203942	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	195371	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	100171	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	92771	64.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	128.94%
7) Chloroethane-d5	1.56	69	67618	78.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	156.62%#
11) 1,1-Dichloroethene-d2	2.12	63	171005	70.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	141.54%#
21) 2-Butanone-d5	3.89	46	152427	143.11	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	143.11%#
24) Chloroform-d	4.37	84	211449	72.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	144.52%#
26) 1,2-Dichloroethane-d4	5.05	65	149778	75.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	150.50%#
32) Benzene-d6	5.07	84	398763	70.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	141.62%#
36) 1,2-Dichloropropane-d6	6.09	67	123931	70.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	141.18%#
41) Toluene-d8	7.34	98	370479	71.69	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	143.38%#
43) trans-1,3-Dichloropropene-	7.64	79	64106	70.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	140.22%#
47) 2-Hexanone-d5	8.11	63	99221	129.64	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	129.64%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	168058	72.31	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	144.62%#
64) 1,2-Dichlorobenzene-d4	11.65	152	160951	75.29	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	150.58%#

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	14415	9.914	ug/L 92
8) Chloroethane	1.58	64	10679	14.868	ug/L 95
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1431	1.320	ug/L # 21
12) 1,1-Dichloroethene	2.13	96	68759	67.929	ug/L 96
13) Acetone	2.17	43	2228	3.175	ug/L 70
17) trans-1,2-Dichloroethene	2.78	96	2381	1.725	ug/L 73
19) 1,1-Dichloroethane	3.21	63	1839982	708.278	ug/L 99
20) cis-1,2-Dichloroethene	3.94	96	22599	15.020	ug/L 99
25) Chloroform	4.63	83	9448	3.539	ug/L 95
27) 1,2-Dichloroethane	5.16	62	3227	1.442	ug/L 98
30) 1,1,1-Trichloroethane	4.63	97	6043444	2425.581	ug/L 99
33) Benzene	5.12	78	21759	3.764	ug/L 100
34) Trichloroethene	5.94	95	2023	1.305	ug/L 85
42) Toluene	7.41	91	7732	1.269	ug/L 99
44) trans-1,3-Dichloropropene	7.64	75	3518	1.550	ug/L 89
45) 1,1,2-Trichloroethane	7.87	97	1583	1.091	ug/L 78
46) Tetrachloroethene	8.00	164	877	0.719	ug/L 88

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Quant Title : VOC Analysis
QLast Update : Sat Jun 13 01:34:58 2020
Response via : Initial Calibration

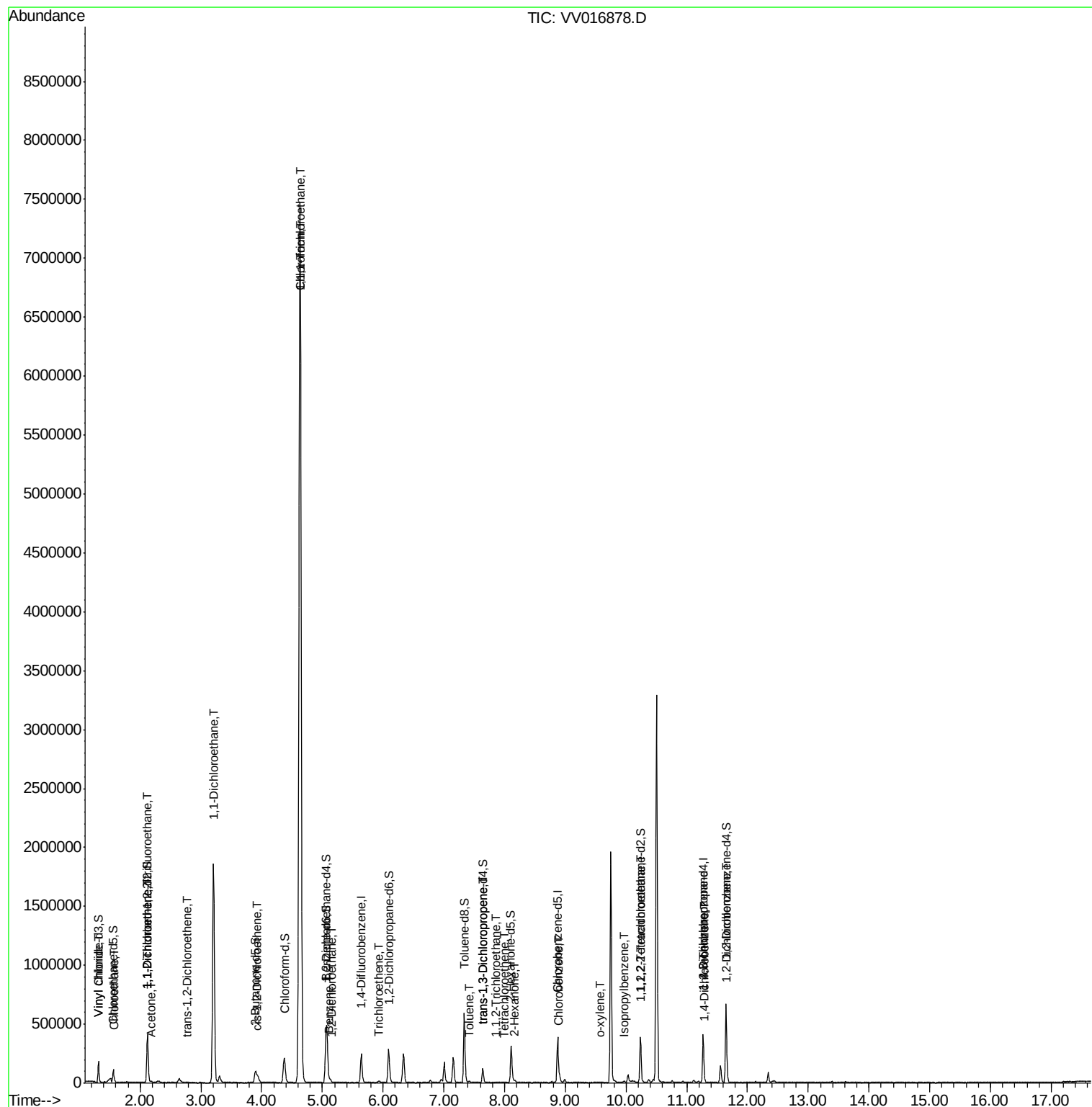
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.17	43	8397	5.084	ug/L #	76
51) Chlorobenzene	8.90	112	31922	8.029	ug/L	98
54) o-xylene	9.56	106	1568	0.633	ug/L	66
56) Isopropylbenzene	9.95	105	3686	0.553	ug/L #	92
58) 1,1,2,2-Tetrachloroethane	10.25	83	1648	0.741	ug/L #	67
59) 1,2,3-Trichloropropane	11.27	75	12738	6.830	ug/L	93
63) 1,4-Dichlorobenzene	11.30	146	2489	0.771	ug/L #	80
65) 1,2-Dichlorobenzene	11.67	146	12184	3.832	ug/L	97

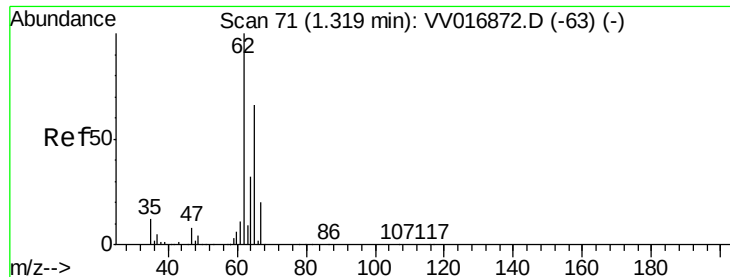
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 9.914 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampleId :

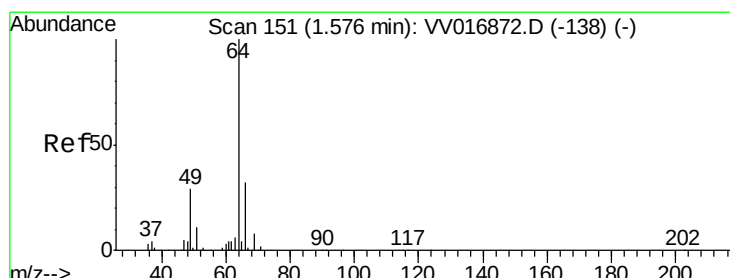
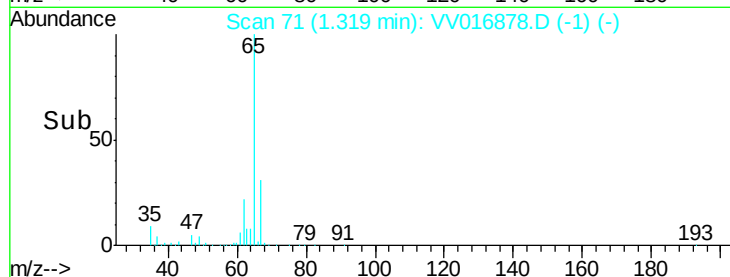
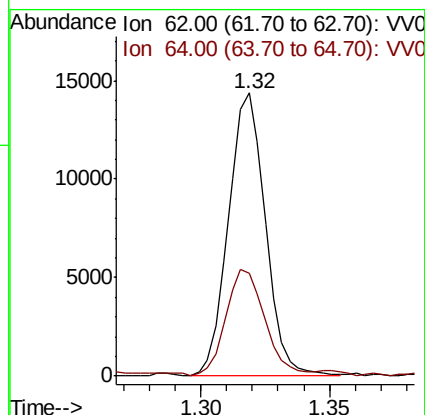
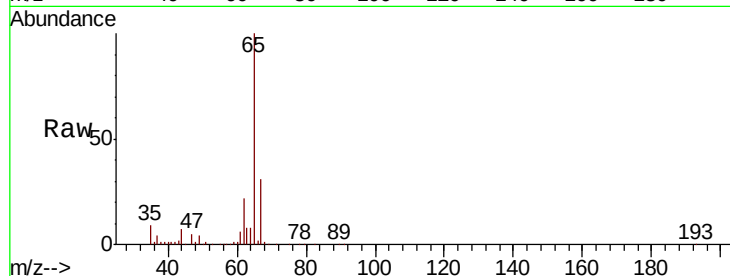
BFXE0

Tot Ion: 62 Resp: 14415

Ion Ratio Lower Upper

62 100

64 36.6 22.3 41.5



#8

Chloroethane

Concen: 14.868 ug/L

RT: 1.58 min Scan# 151

Delta R.T. 0.00 min

Lab File: VV016878.D

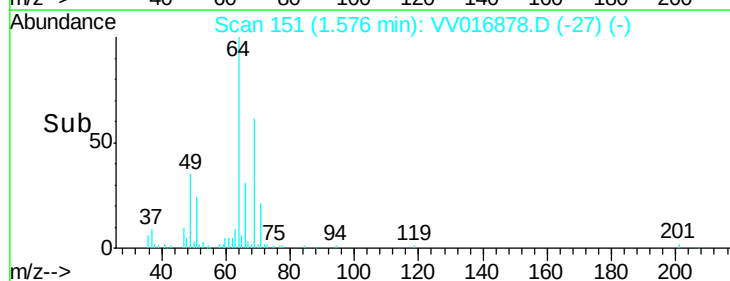
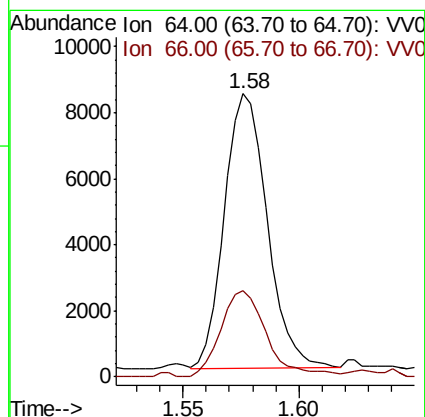
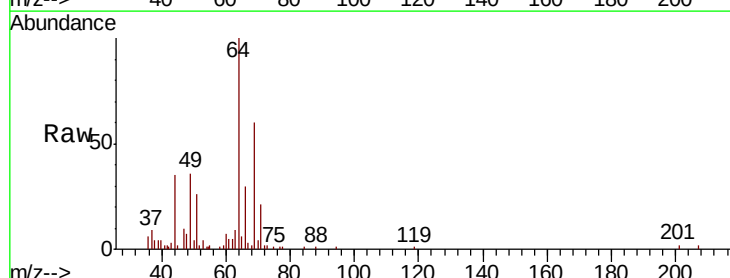
Acq: 12 Jun 2020 14:50

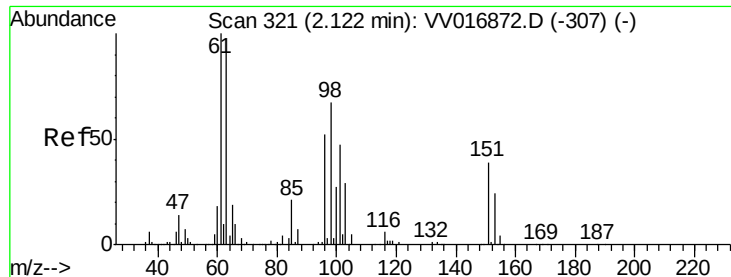
Tgt Ion: 64 Resp: 10679

Ion Ratio Lower Upper

64 100

66 30.5 23.2 43.0





#10

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

Concen: 1.320 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampleId :

BFXE0

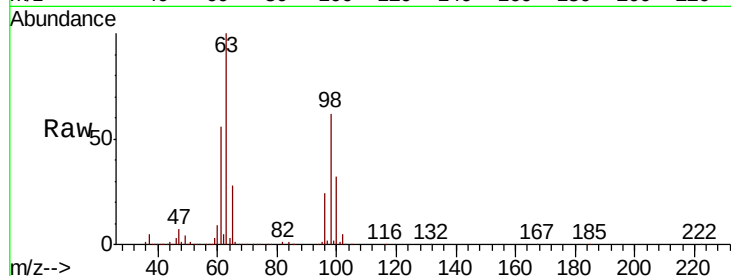
Tot Ion:101 Resp: 1431

Ion Ratio Lower Upper

101 100

85 7.3 35.5 53.3#

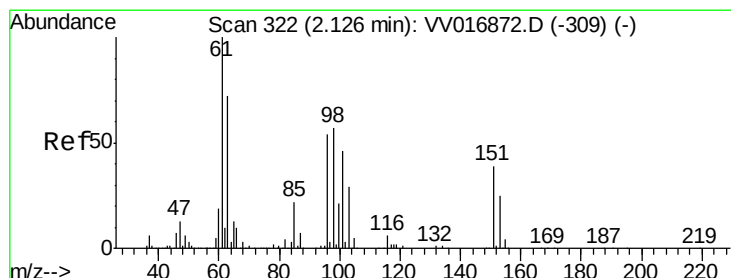
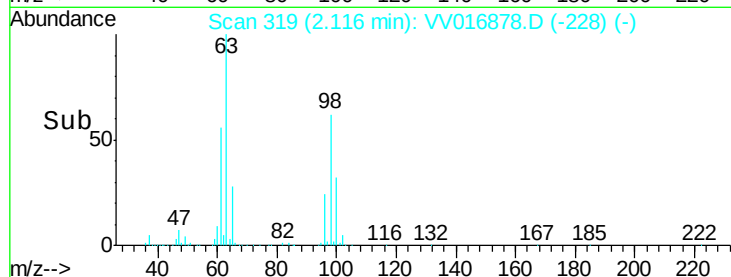
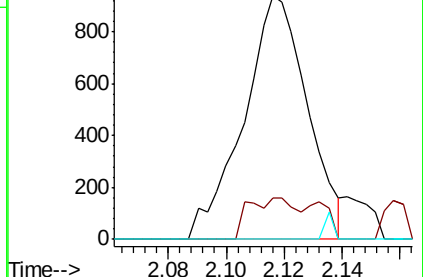
151 0.0 63.9 95.9#



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



#12

1,1-Dichloroethene

Concen: 67.929 ug/L

RT: 2.13 min Scan# 322

Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

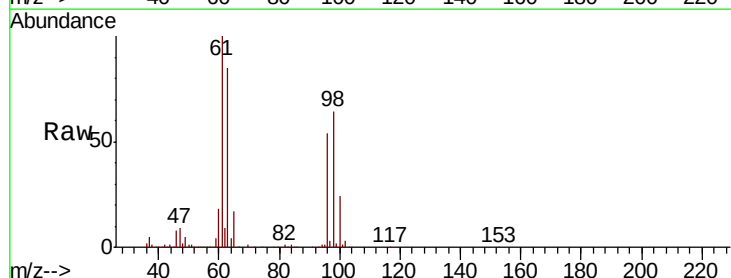
Tgt Ion: 96 Resp: 68759

Ion Ratio Lower Upper

96 100

61 186.1 130.4 242.2

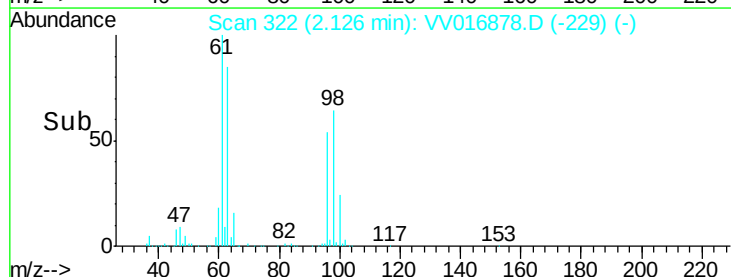
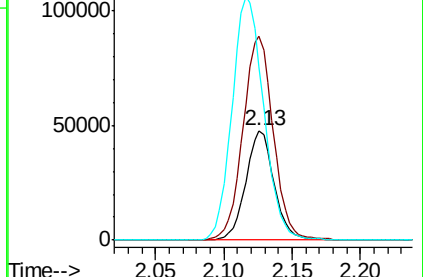
63 157.8 103.3 191.9

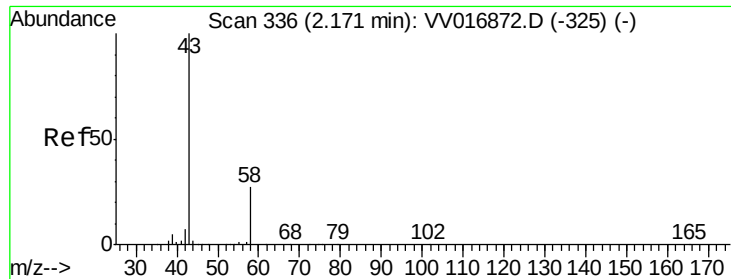


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 3.175 ug/L

RT: 2.17 min Scan# 336

Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampled :

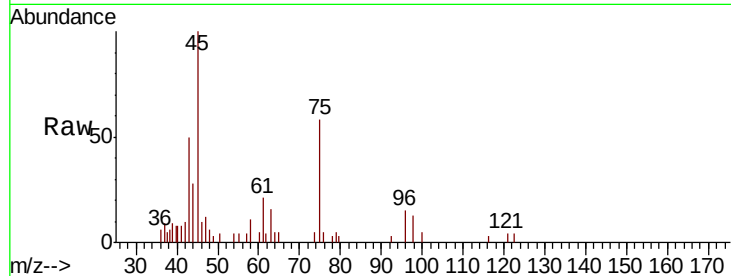
BFXE0

Tot Ion: 43 Resp: 2228

Ion Ratio Lower Upper

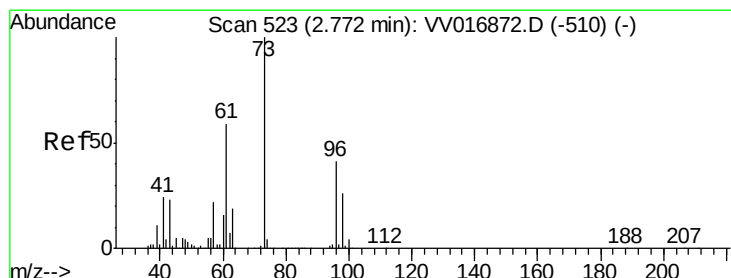
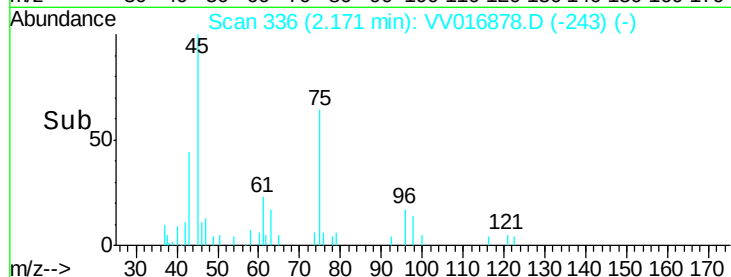
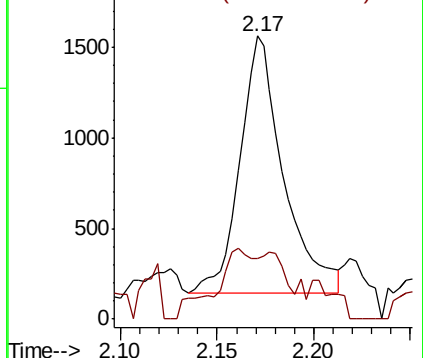
43 100

58 11.7 0.0 55.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#17

trans-1,2-Dichloroethene

Concen: 1.725 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.01 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

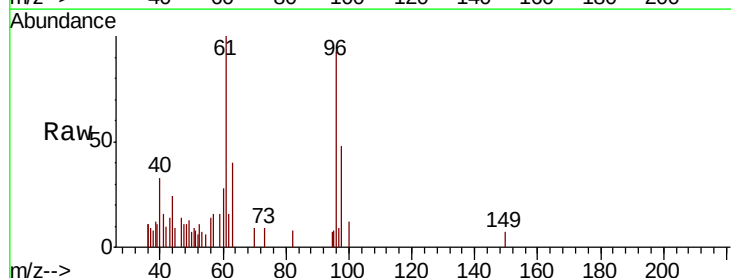
Tgt Ion: 96 Resp: 2381

Ion Ratio Lower Upper

96 100

61 107.2 102.9 191.1

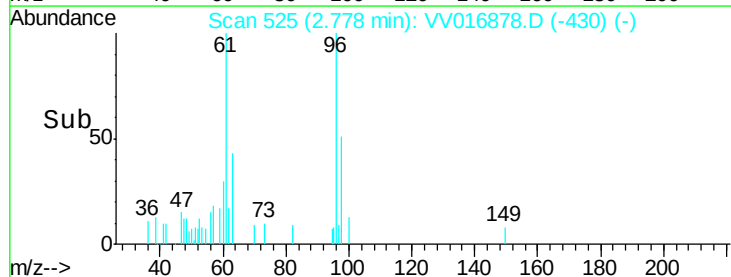
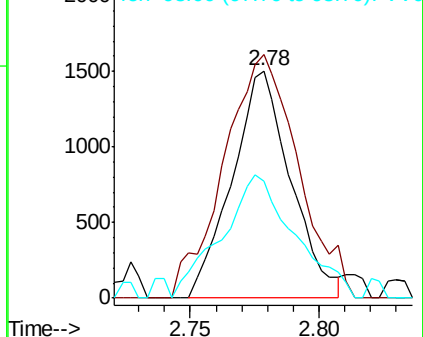
98 51.4 45.5 84.5

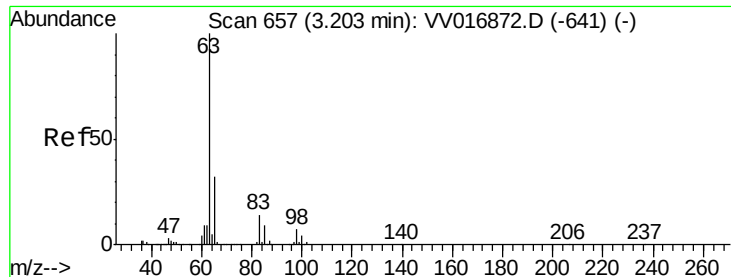


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#19

1,1-Dichloroethane

Concen: 708.278 ug/L

RT: 3.21 min Scan# 658

Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampleID :

BFXE0

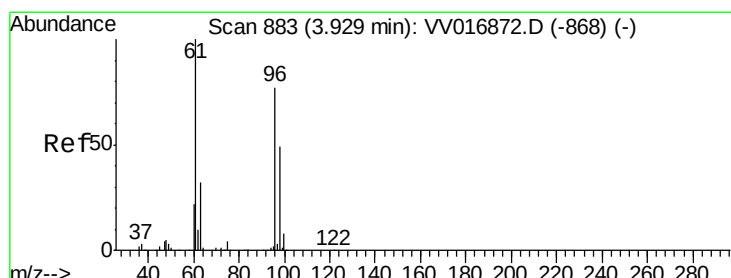
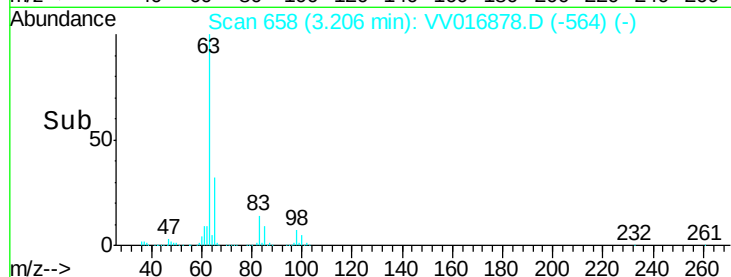
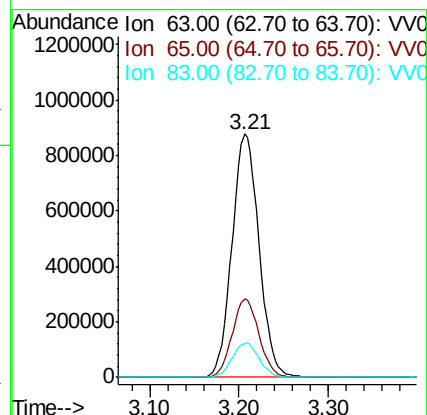
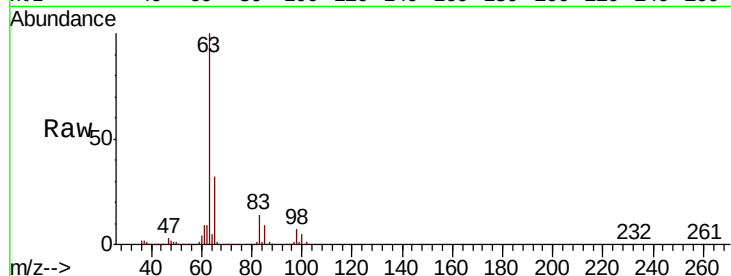
Tot Ion: 63 Resp: 1839982

Ion Ratio Lower Upper

63 100

65 32.3 23.2 43.0

83 14.1 10.0 18.6



#20

cis-1,2-Dichloroethene

Concen: 15.020 ug/L

RT: 3.94 min Scan# 885

Delta R.T. 0.01 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

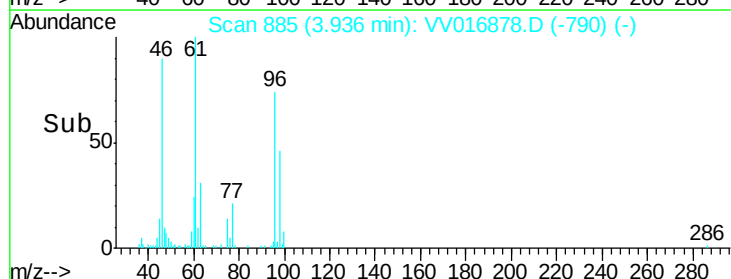
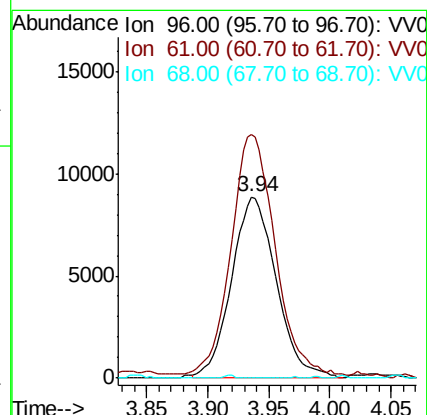
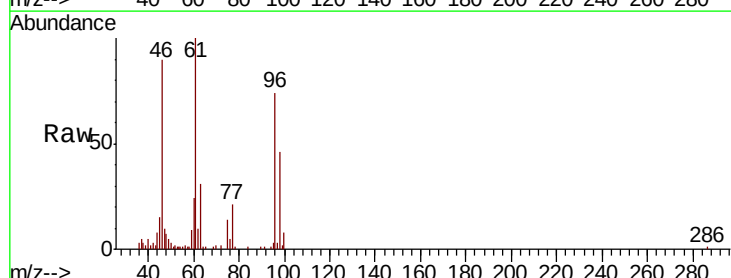
Tgt Ion: 96 Resp: 22599

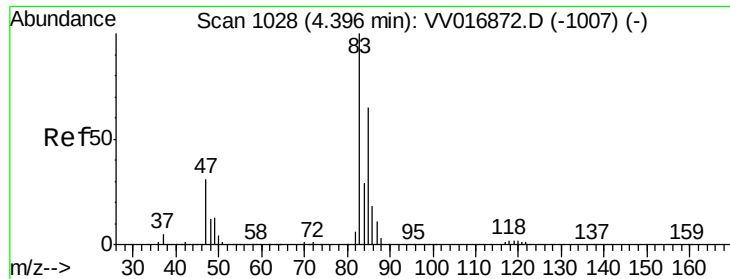
Ion Ratio Lower Upper

96 100

61 134.6 93.4 173.4

68 0.0 0.0 0.0

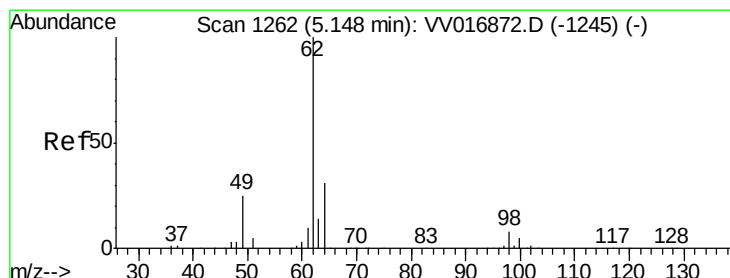
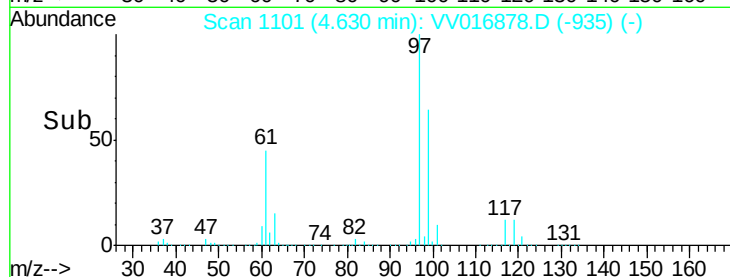
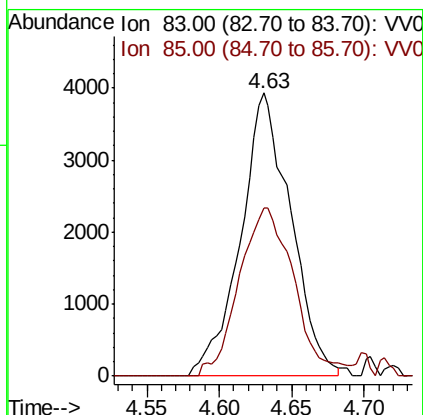
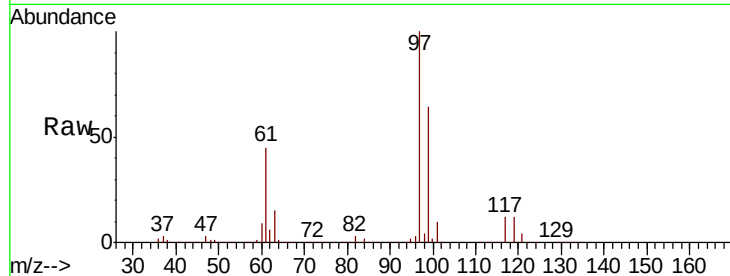




#25
Chloroform
Concen: 3.539 ug/L
RT: 4.63 min Scan# 1101
Delta R.T. 0.23 min
Lab File: VV016878.D
Acq: 12 Jun 2020 14:50

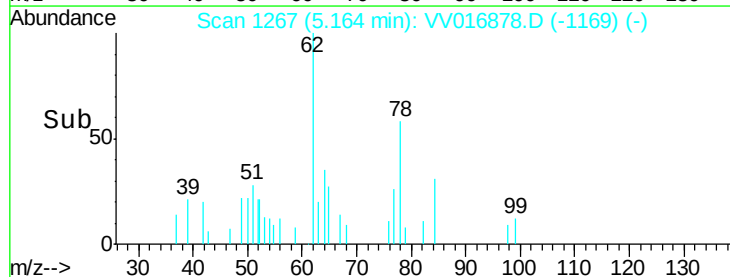
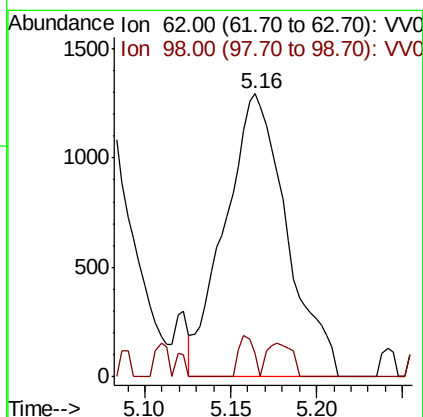
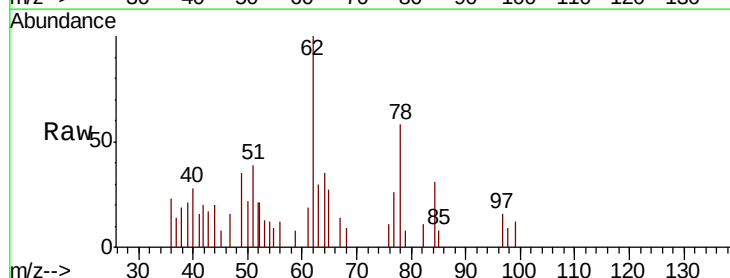
Instrument :
MSVOA_V
ClientSampled :
BFXE0

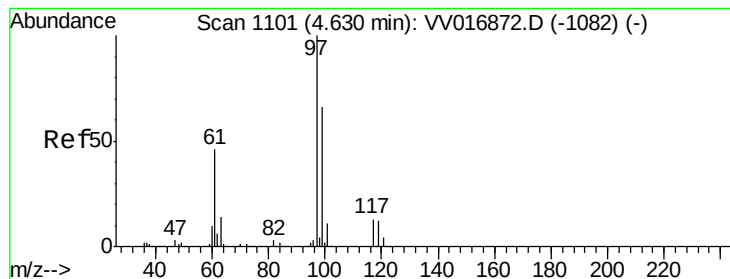
Tot Ion: 83 Resp: 9448
Ion Ratio Lower Upper
83 100
85 59.4 44.1 81.9



#27
1,2-Dichloroethane
Concen: 1.442 ug/L
RT: 5.16 min Scan# 1267
Delta R.T. 0.02 min
Lab File: VV016878.D
Acq: 12 Jun 2020 14:50

Tgt Ion: 62 Resp: 3227
Ion Ratio Lower Upper
62 100
98 8.5 7.4 11.2





#30

1,1,1-Trichloroethane

Concen: 2425.581 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampleId :

BFXE0

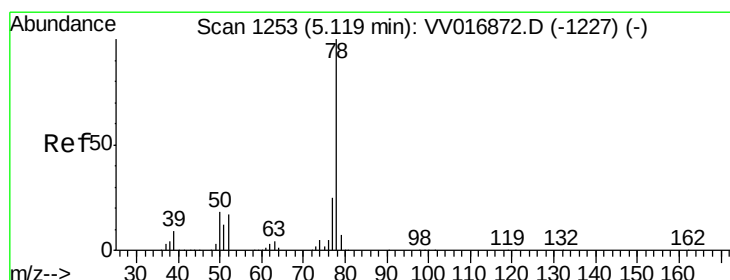
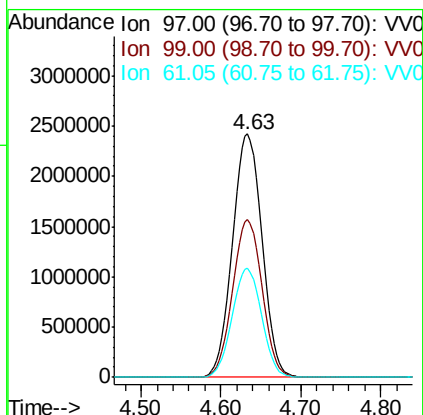
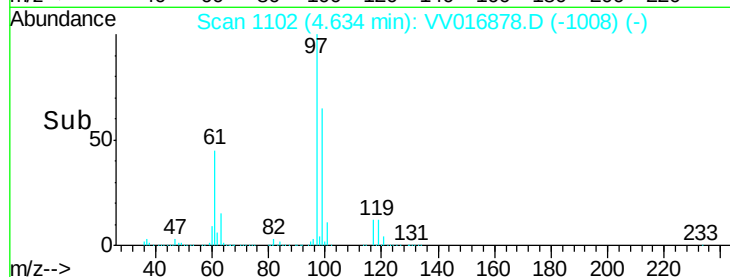
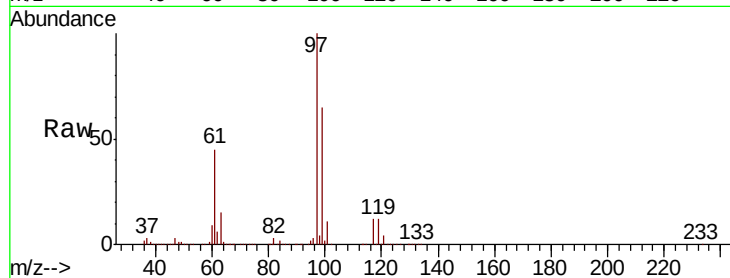
Tot Ion: 97 Resp: 6043444

Ion Ratio Lower Upper

97 100

99 64.5 51.3 76.9

61 44.7 36.7 55.1



#33

Benzene

Concen: 3.764 ug/L

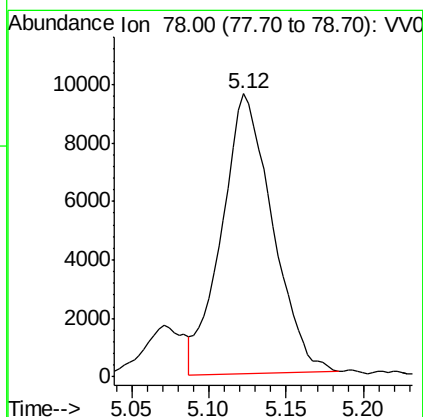
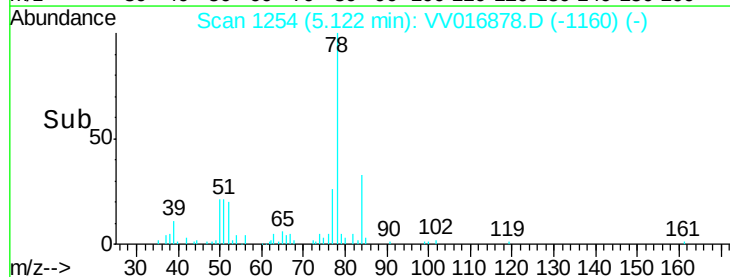
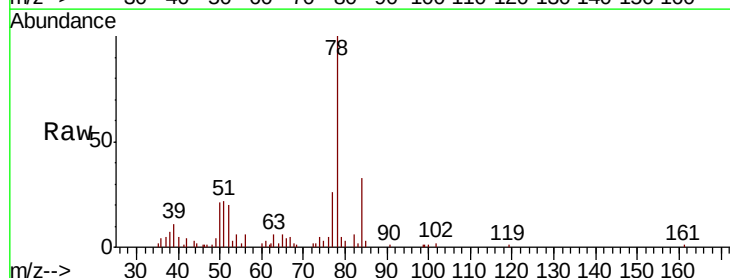
RT: 5.12 min Scan# 1254

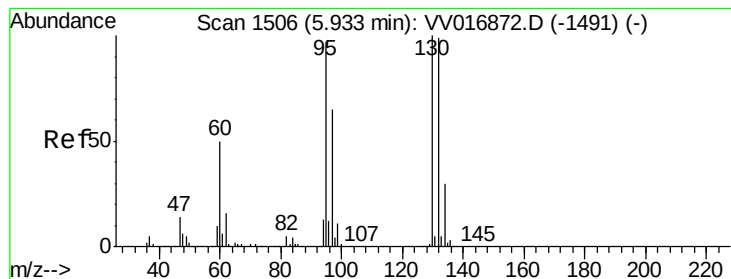
Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Tgt Ion: 78 Resp: 21759





#34

Trichloroethene

Concen: 1.305 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampleId :

BFXE0

Tot Ion: 95 Resp: 2023

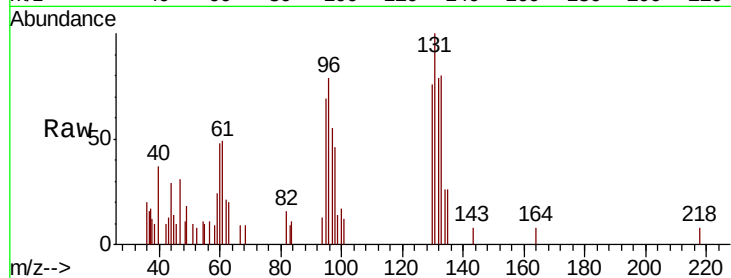
Ion Ratio Lower Upper

95 100

97 79.8 44.3 82.3

132 114.7 67.9 126.1

130 110.5 72.2 134.2



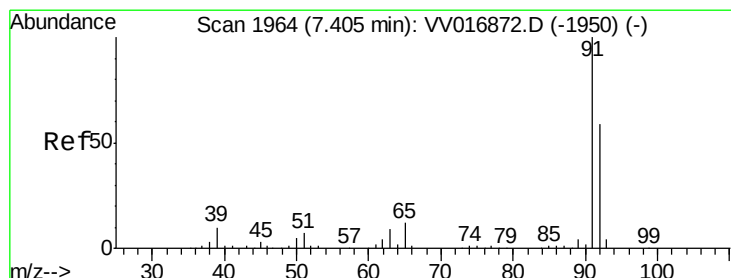
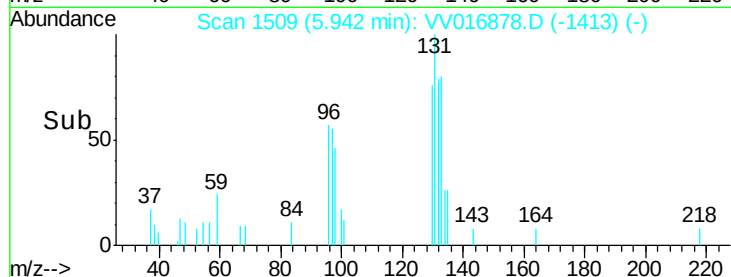
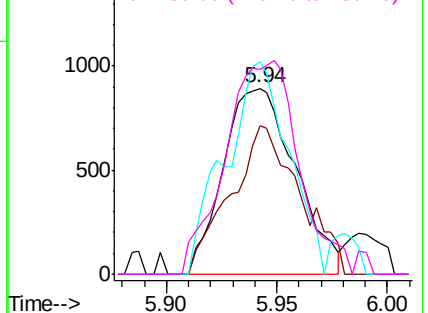
Abundance

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: 1.269 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV016878.D

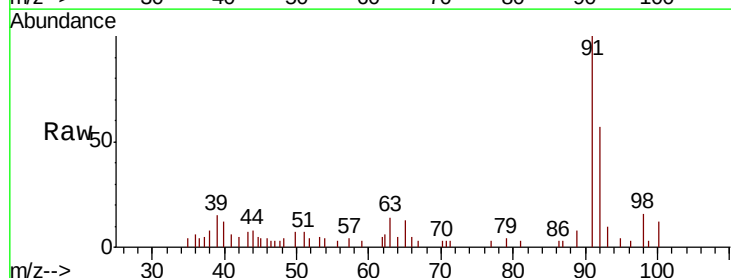
Acq: 12 Jun 2020 14:50

Tgt Ion: 91 Resp: 7732

Ion Ratio Lower Upper

91 100

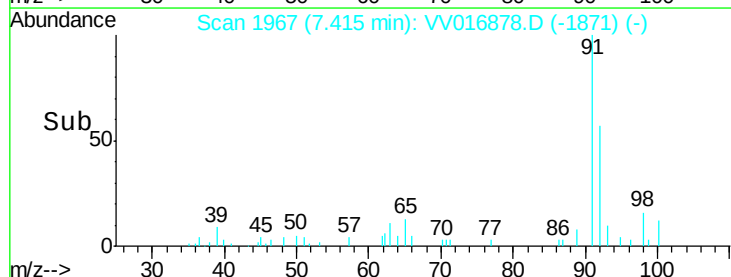
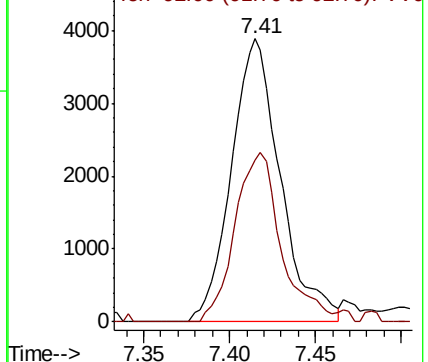
92 57.1 40.4 75.0

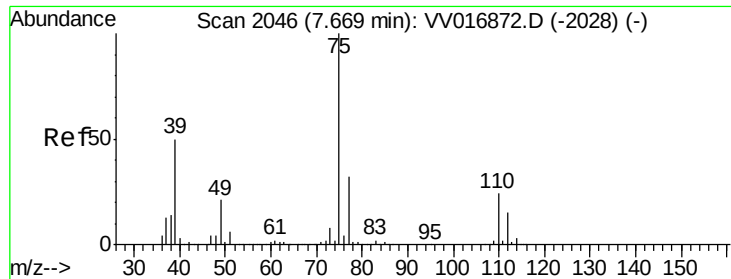


Abundance

Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0





#44

trans-1,3-Dichloropropene

Concen: 1.550 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. -0.03 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampleId :

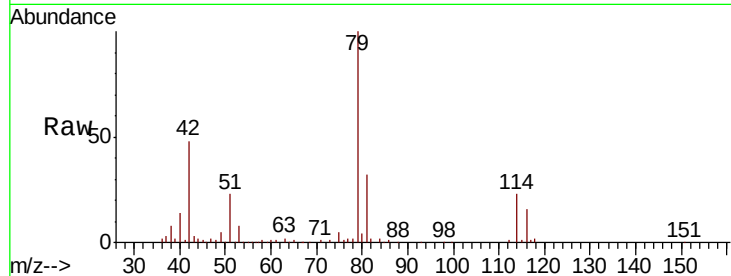
BFXE0

Tot Ion: 75 Resp: 3518

Ion Ratio Lower Upper

75 100

77 36.9 21.7 40.3



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

2000

1500

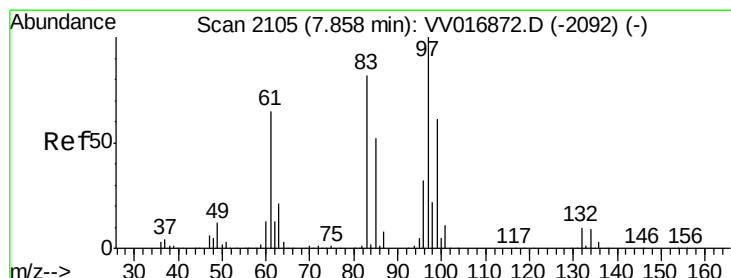
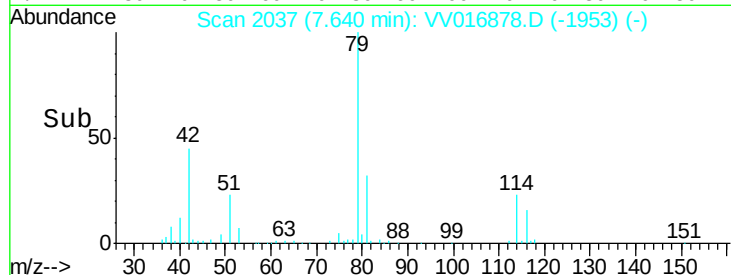
1000

500

0

7.60 7.65 7.70

Time-->



#45

1,1,2-Trichloroethane

Concen: 1.091 ug/L

RT: 7.87 min Scan# 2108

Delta R.T. 0.01 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Tgt Ion: 97 Resp: 1583

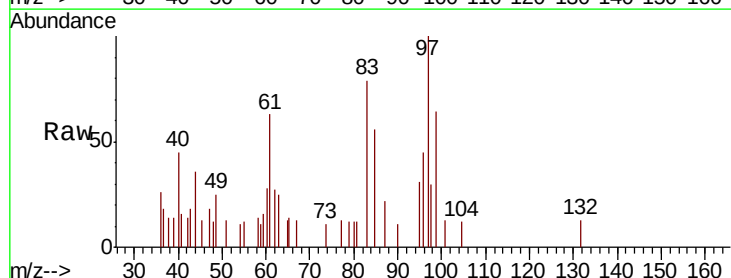
Ion Ratio Lower Upper

97 100

99 48.8 44.3 82.3

83 60.5 60.0 111.4

85 42.6 39.5 73.3



Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

1500

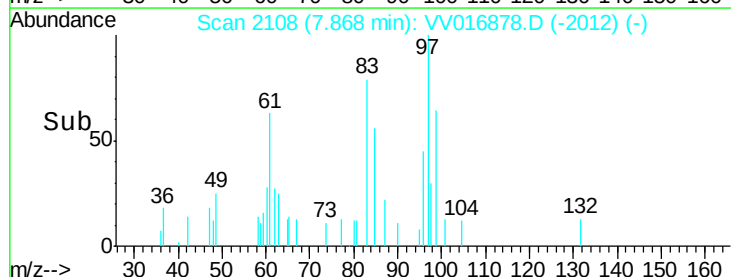
1000

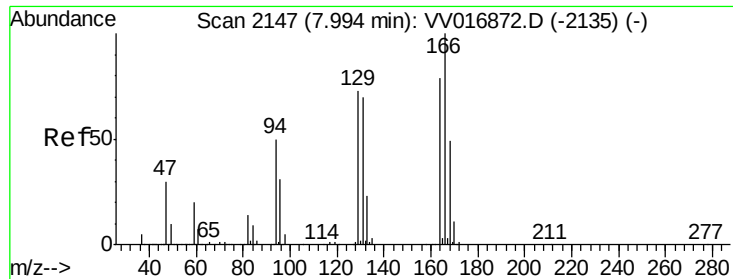
500

0

7.82 7.84 7.86 7.88 7.90

Time-->

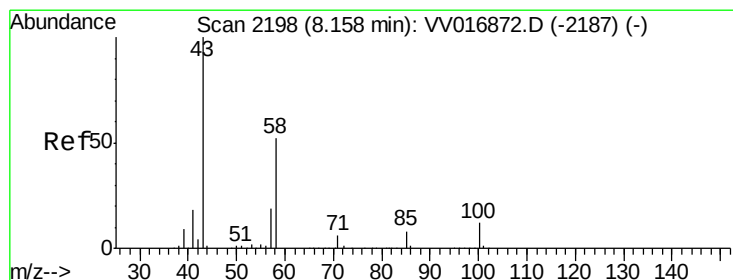
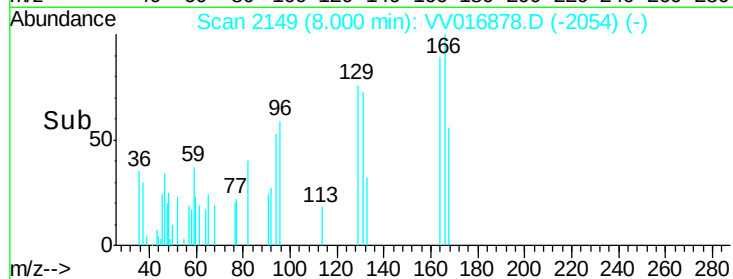
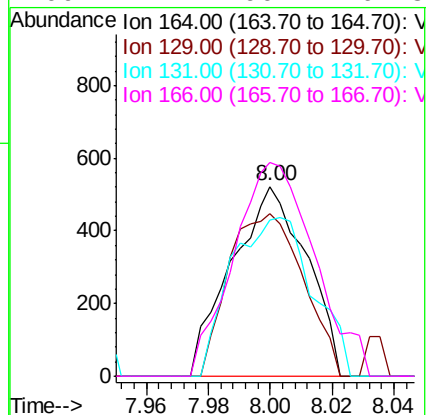
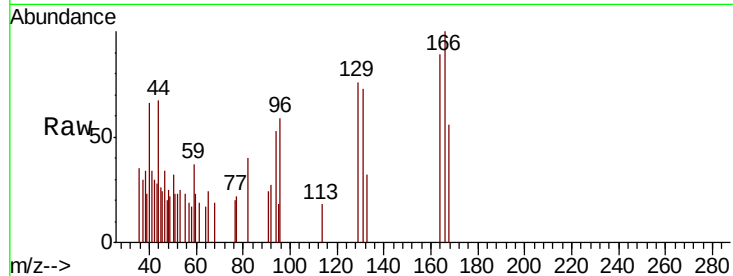




#46
Tetrachloroethene
Concen: 0.719 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.01 min
Lab File: VV016878.D
Acq: 12 Jun 2020 14:50

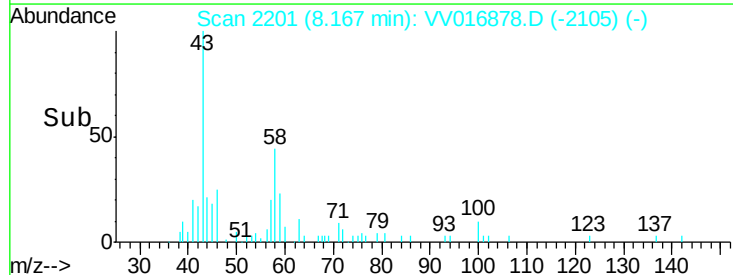
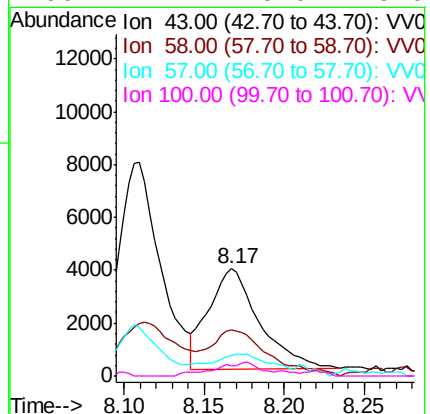
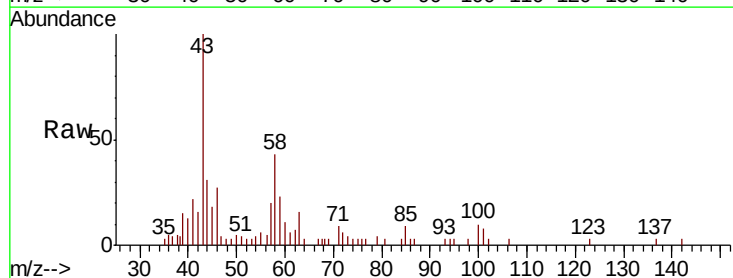
Instrument :
MSVOA_V
ClientSampleId :
BFXE0

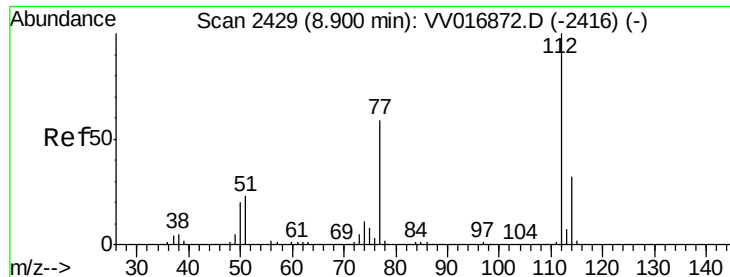
Tot Ion:164	Resp:	877	
Ion	Ratio	Lower	Upper
164	100		
129	85.9	67.0	124.4
131	82.4	64.8	120.3
166	112.4	90.4	167.8



#48
2-Hexanone
Concen: 5.084 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.01 min
Lab File: VV016878.D
Acq: 12 Jun 2020 14:50

Tgt	Ion: 43	Resp:	8397
Ion	Ratio	Lower	Upper
43	100		
58	31.5	43.1	64.7#
57	21.5	15.3	22.9
100	4.1	10.0	15.0#





#51

Chlorobenzene

Concen: 8.029 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampleId :

BFXE0

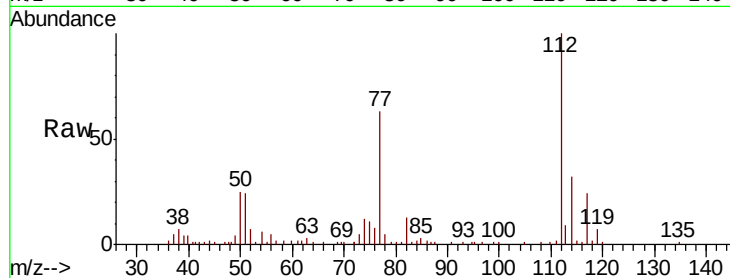
Tot Ion:112 Resp: 31922

Ion Ratio Lower Upper

112 100

114 31.8 22.3 41.3

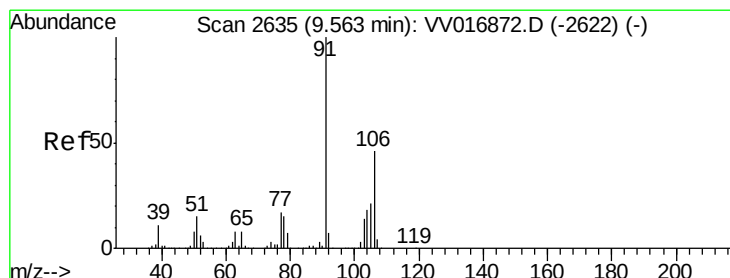
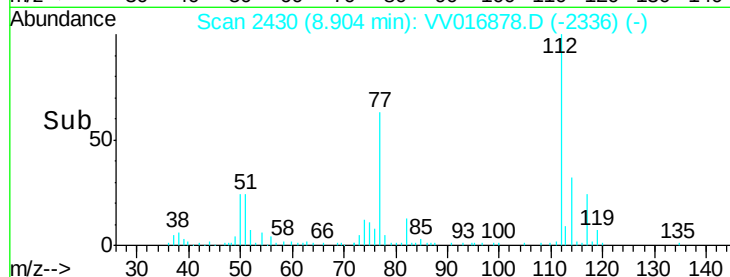
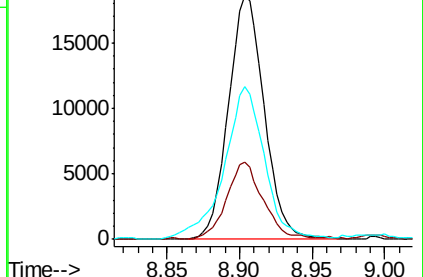
77 62.6 47.9 71.9



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



#54

o-xylene

Concen: 0.633 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV016878.D

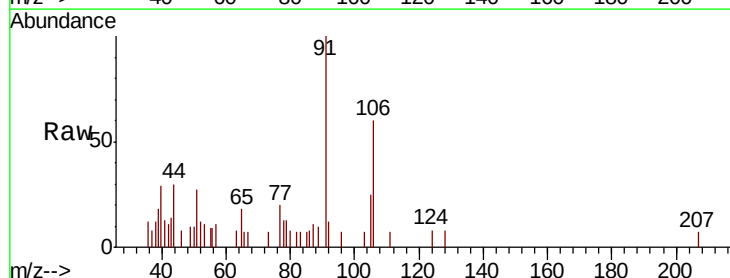
Acq: 12 Jun 2020 14:50

Tgt Ion:106 Resp: 1568

Ion Ratio Lower Upper

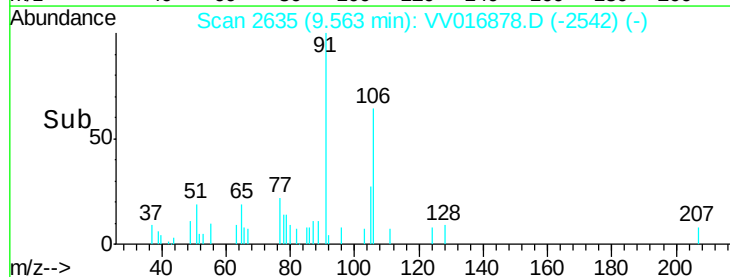
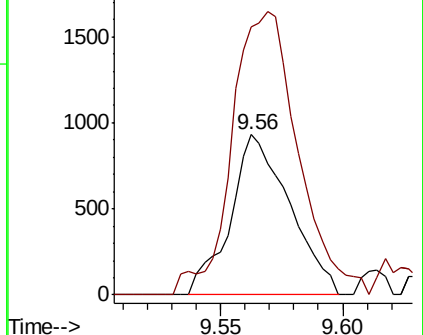
106 100

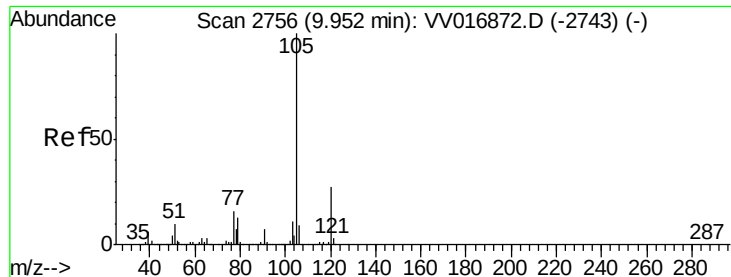
91 167.6 155.9 289.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#56

Isopropylbenzene

Concen: 0.553 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampled :

BFXE0

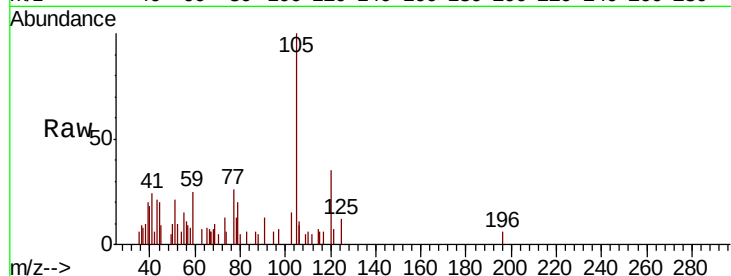
Tot Ion:105 Resp: 3686

Ion Ratio Lower Upper

105 100

120 28.4 21.2 31.8

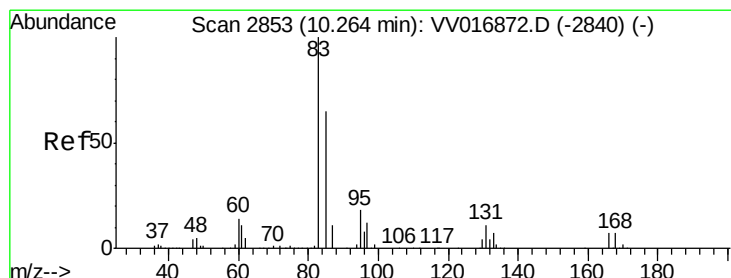
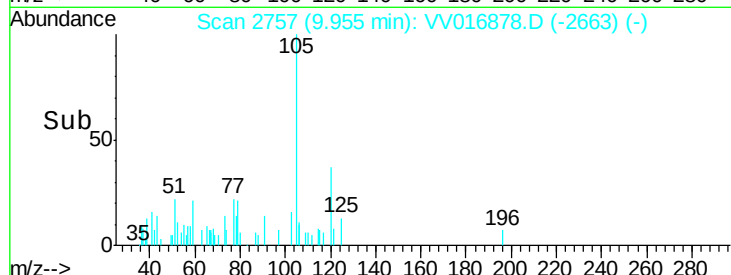
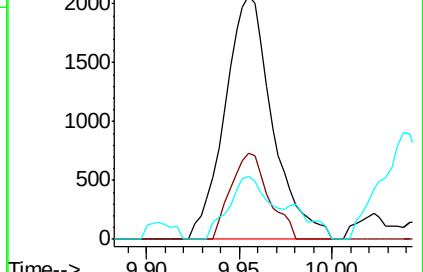
77 22.8 13.0 19.4#



Abundance Ion 105.00 (104.70 to 105.70): VV016878.D (-2743) (-)

Ion 120.00 (119.70 to 120.70): VV016878.D (-2743) (-)

Ion 77.00 (76.70 to 77.70): VV016878.D (-2743) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 0.741 ug/L

RT: 10.25 min Scan# 2850

Delta R.T. -0.01 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

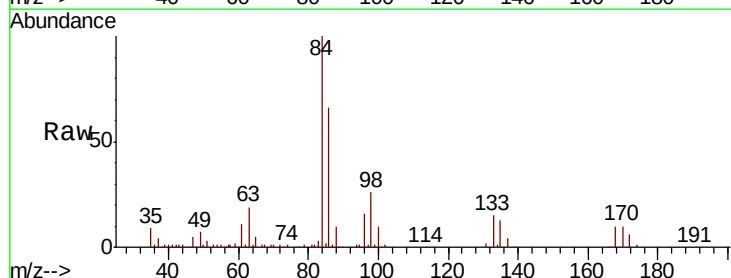
Tgt Ion: 83 Resp: 1648

Ion Ratio Lower Upper

83 100

85 78.0 46.8 86.8

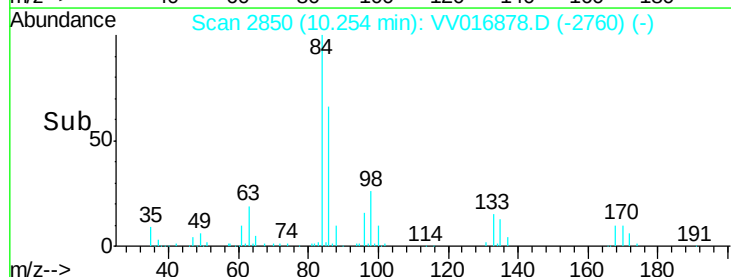
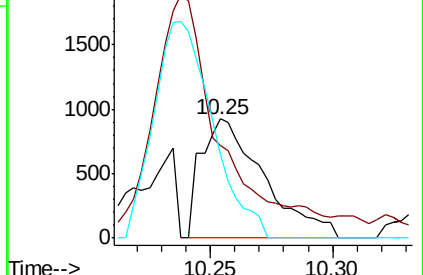
131 70.4 7.9 11.9#

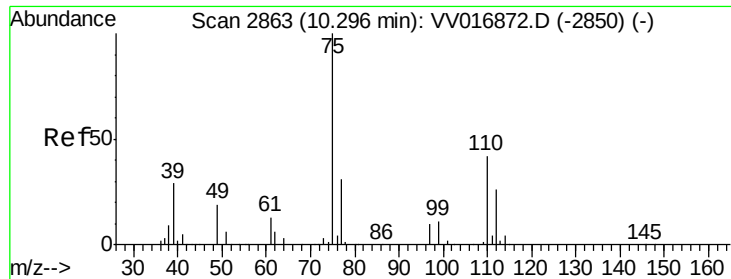


Abundance Ion 83.00 (82.70 to 83.70): VV016878.D (-2840) (-)

Ion 85.00 (84.70 to 85.70): VV016878.D (-2840) (-)

Ion 131.00 (130.70 to 131.70): VV016878.D (-2840) (-)





#59

1,2,3-Trichloropropane

Concen: 6.830 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.97 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampled :

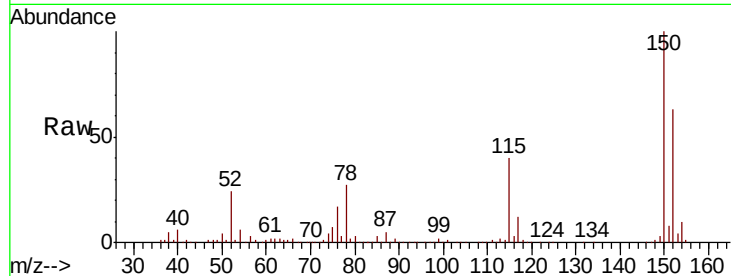
BFXE0

Tot Ion: 75 Resp: 12738

Ion Ratio Lower Upper

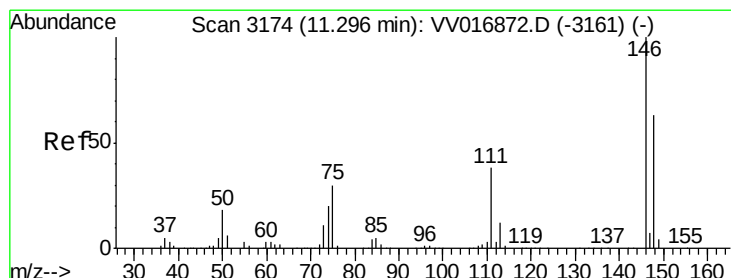
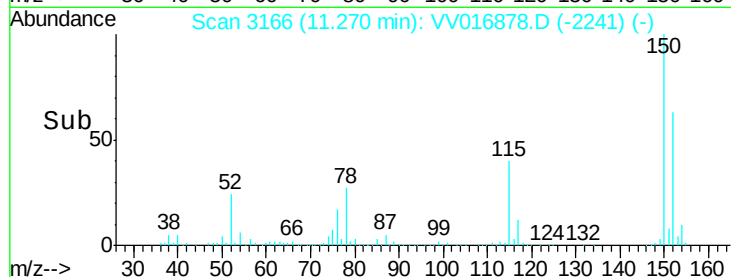
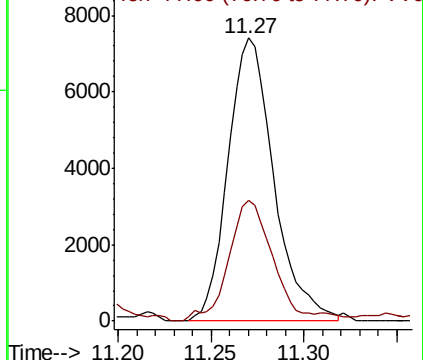
75 100

77 36.6 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#63

1,4-Dichlorobenzene

Concen: 0.771 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

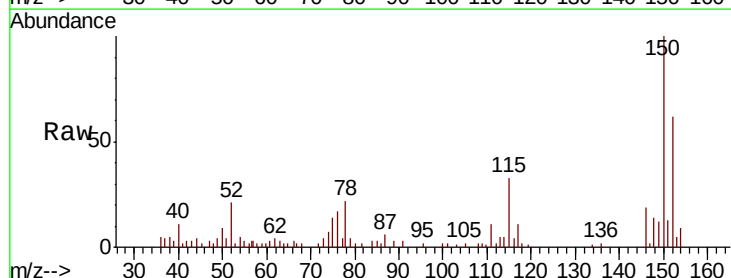
Tgt Ion: 146 Resp: 2489

Ion Ratio Lower Upper

146 100

111 57.3 26.7 49.7#

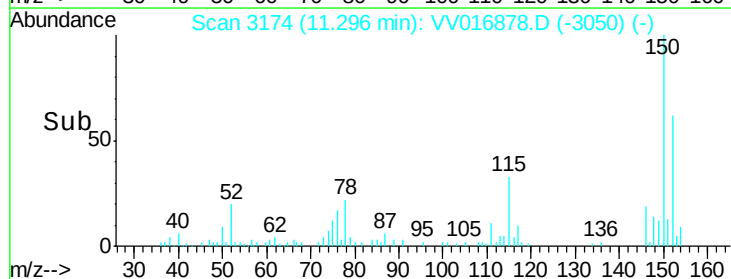
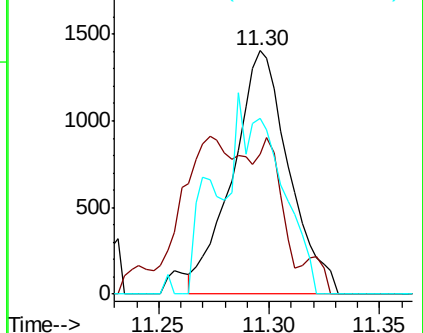
148 72.1 43.5 80.9

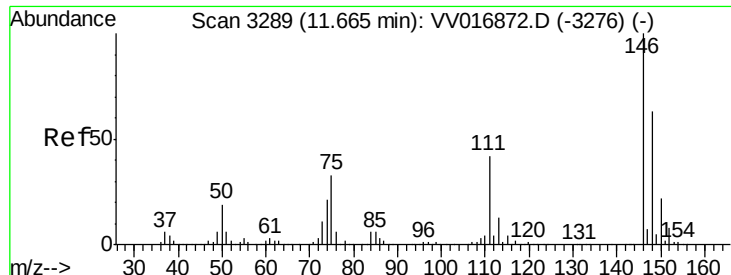


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 3.832 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV016878.D

Acq: 12 Jun 2020 14:50

Instrument :

MSVOA_V

ClientSampleId :

BFXE0

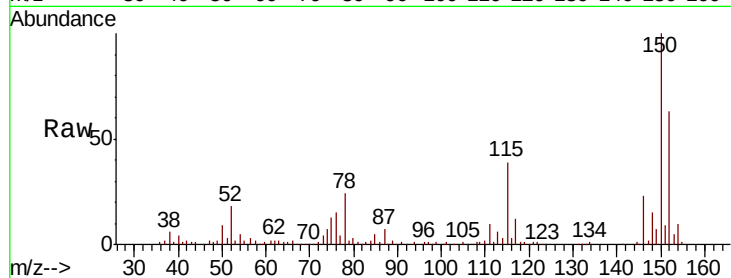
Tot Ion:146 Resp: 12184

Ion Ratio Lower Upper

146 100

111 45.4 33.7 50.5

148 65.1 50.7 76.1



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

