

Data File : VV010738.D
Acq On : 08 May 2019 21:12
Operator : SY/MD
Sample : K2690-16
Misc : 6.69G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A5162

Quant Time: May 09 03:00:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050719S.M
Quant Title : VOC Analysis
QLast Update : Thu May 09 02:55:09 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	19093	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	19202	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	8866	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	6481	21.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.40%
7) Chloroethane-d5	1.58	69	6153	25.21	ug/L	0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	100.84%
10) 1,1-Dichloroethene-d2	2.13	63	10806	16.80	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	67.20%
20) 2-Butanone-d5	3.94	46	7387	83.00	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	166.00%#
24) Chloroform-d	4.40	84	13109	25.18	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	100.72%
26) 1,2-Dichloroethane-d4	5.08	65	8413	25.88	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	103.52%
29) Benzene-d6	5.10	84	22310	22.07	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	88.28%
33) 1,2-Dichloropropane-d6	6.12	67	12513	38.85	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	155.40%#
37) Toluene-d8	7.33	98	77318	79.88	ug/L	-0.02
Spiked Amount	25.000	Range	30 - 130	Recovery	=	319.52%#
38) trans-1,3-Dichloropropene-	7.67	79	3158	21.51	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	86.04%
39) 2-Hexanone-d5	8.13	63	6346	94.16	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	188.32%#
48) 1,1,2,2-Tetrachloroethane-	10.34	84	3581	11.83	ug/L	0.08
Spiked Amount	25.000	Range	45 - 120	Recovery	=	47.32%
61) 1,2-Dichlorobenzene-d4	11.68	152	9643	28.08	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	112.32%

Target Compounds

						Qvalue
13) Acetone	2.19	43	30735	223.051	ug/L	99
14) Carbon disulfide	2.31	76	4671	6.324	ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	787	2.897	ug/L	84
22) cis-1,2-Dichloroethene	3.96	96	126286	406.876	ug/L	97
25) Chloroform	4.46	83	1726	2.987	ug/L #	22
30) Cyclohexane	4.72	56	3968	8.239	ug/L #	80
35) Trichloroethene	5.97	95	61420	194.522	ug/L #	1
36) Methylcyclohexane	6.18	83	133140	263.092	ug/L	90
40) 1,2-Dichloropropane	6.18	63	571	1.904	ug/L #	87
41) Bromodichloromethane	6.60	83	389919	946.334	ug/L #	27
43) 4-Methyl-2-pentanone	7.28	43	7950	31.496	ug/L #	81
44) Toluene	7.43	91	8748	6.833	ug/L	98
45) trans-1,3-Dichloropropene	7.71	75	848	2.123	ug/L #	1
47) Tetrachloroethene	8.02	164	603	2.637	ug/L #	67
49) 2-Hexanone	8.13	43	49825	259.630	ug/L #	28
52) Chlorobenzene	8.83	112	727	0.869	ug/L #	57
53) Ethylbenzene	9.05	91	14135	9.522	ug/L	97

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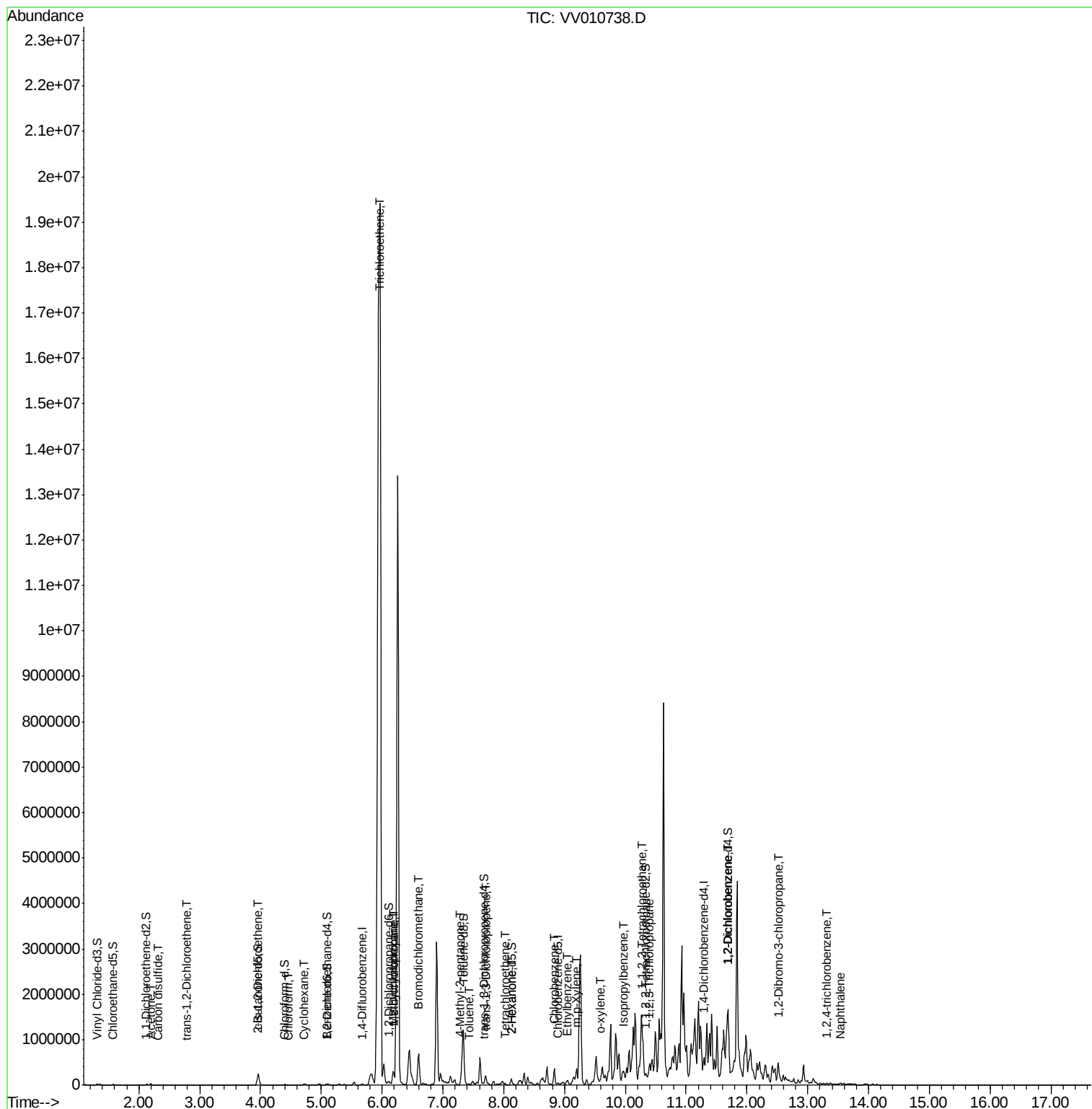
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) m,p-Xylene	9.18	106	10447	18.837	ug/L	89
55) o-xylene	9.59	106	812	1.476	ug/L	98
57) Isopropylbenzene	9.98	105	57828	39.401	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.29	83	80587	249.691	ug/L #	39
59) 1,2,3-Trichloropropane	10.40	75	1616	6.416	ug/L #	1
65) 1,2-Dichlorobenzene	11.69	146	2766	4.615	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	12.51	75	1344	24.164	ug/L #	17
68) 1,2,4-trichlorobenzene	13.31	180	527	1.532	ug/L #	9
69) Naphthalene	13.55	128	7116	9.665	ug/L #	91

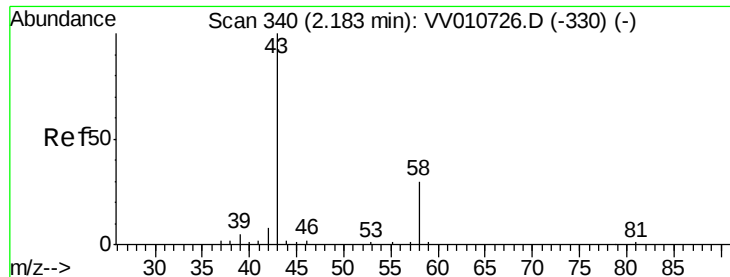
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 223.051 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.01 min

Lab File: VV010738.D

Acq: 08 May 2019 21:12

Instrument :

MSVOA_V

ClientSampleId :

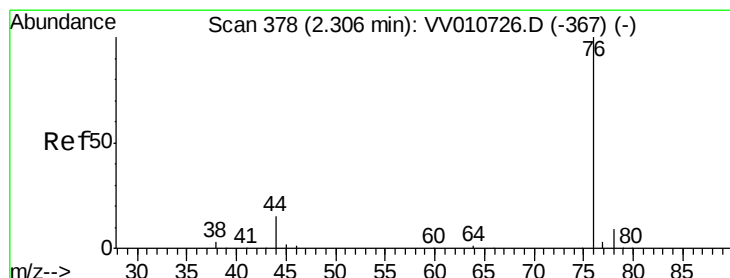
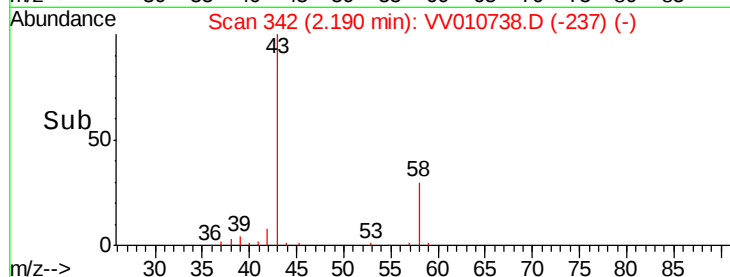
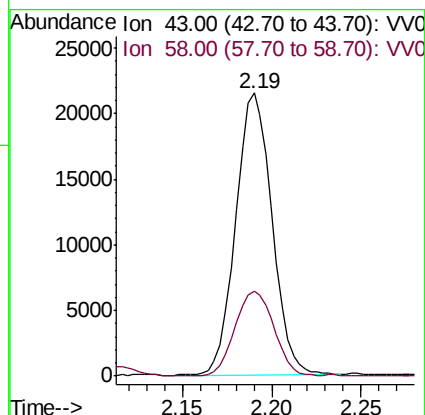
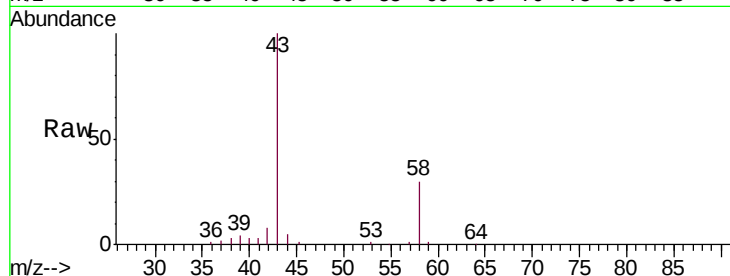
A5162

Tgt Ion: 43 Resp: 30735

Ion Ratio Lower Upper

43 100

58 32.3 0.0 63.4



#14

Carbon disulfide

Concen: 6.324 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.01 min

Lab File: VV010738.D

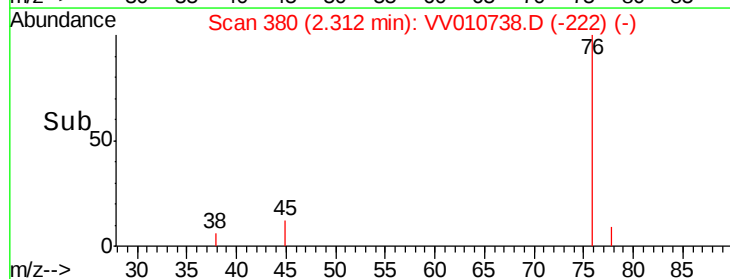
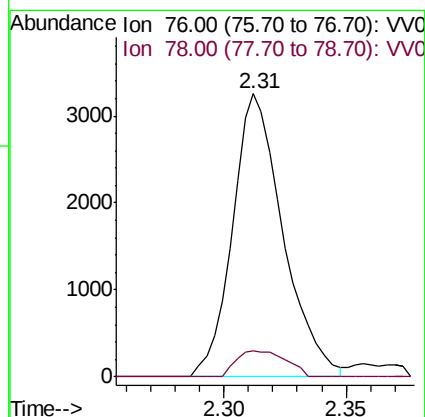
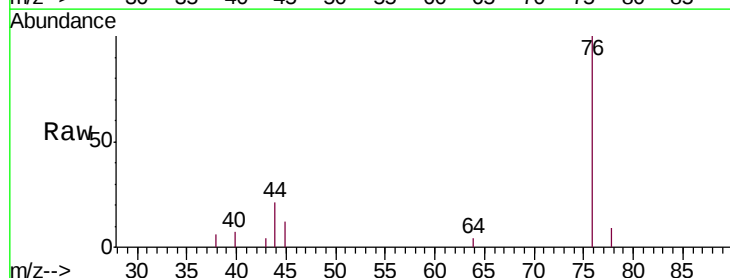
Acq: 08 May 2019 21:12

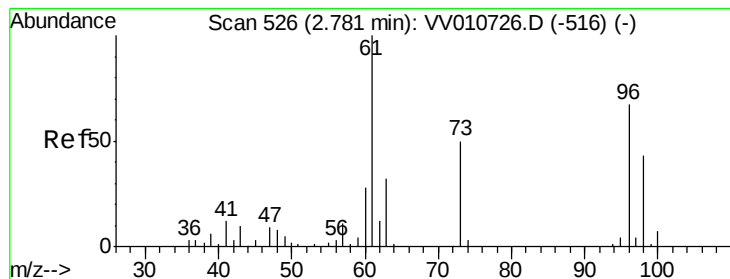
Tgt Ion: 76 Resp: 4671

Ion Ratio Lower Upper

76 100

78 9.1 7.8 11.8





#18

trans-1,2-Dichloroethene

Concen: 2.897 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.01 min

Lab File: VV010738.D

Acq: 08 May 2019 21:12

Instrument :

MSVOA_V

ClientSampleId :

A5162

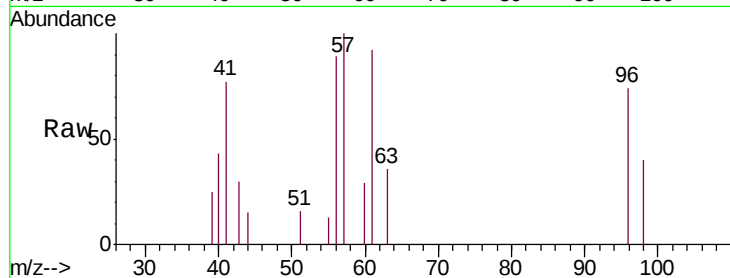
Tgt Ion: 96 Resp: 787

Ion Ratio Lower Upper

96 100

61 124.3 102.8 190.8

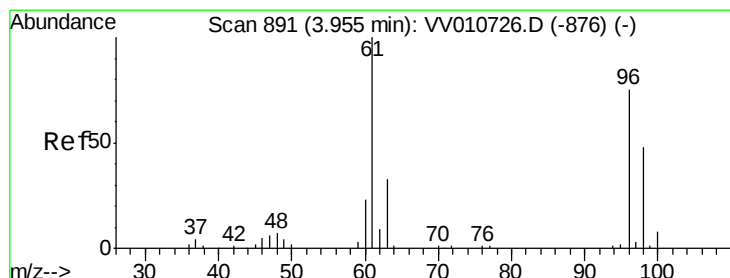
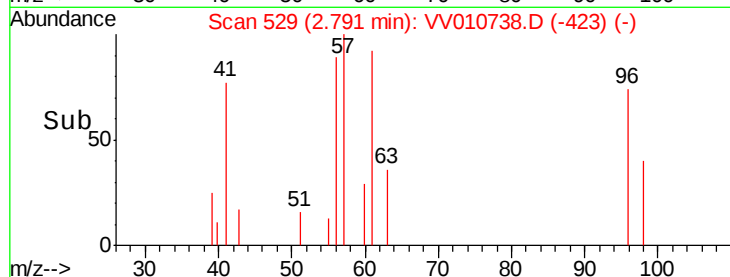
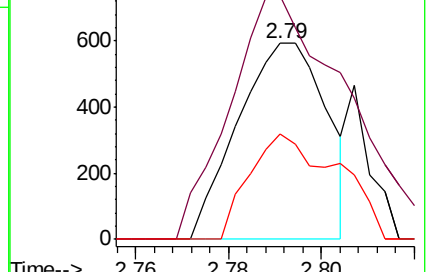
98 53.7 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VV010726.D (-516) (-)

Ion 61.00 (60.70 to 61.70): VV010726.D (-516) (-)

Ion 98.00 (97.70 to 98.70): VV010726.D (-516) (-)



#22

cis-1,2-Dichloroethene

Concen: 406.876 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.01 min

Lab File: VV010738.D

Acq: 08 May 2019 21:12

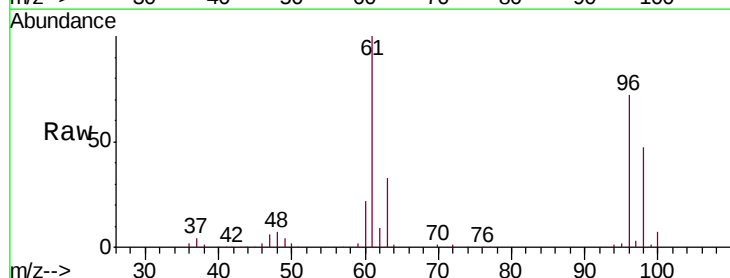
Tgt Ion: 96 Resp: 126286

Ion Ratio Lower Upper

96 100

61 138.9 93.9 174.5

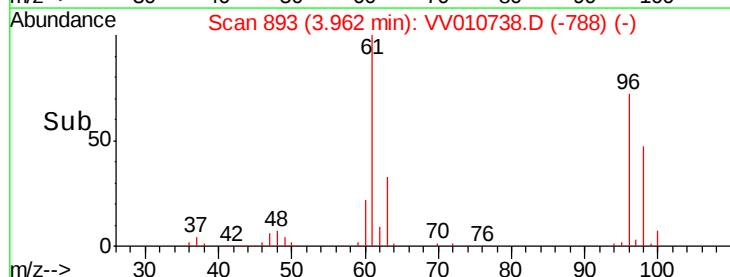
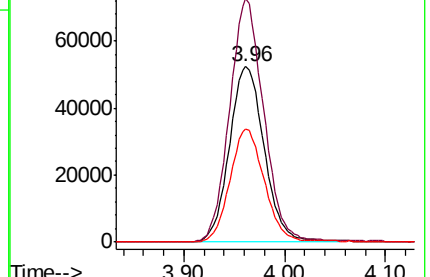
98 64.8 46.5 86.5

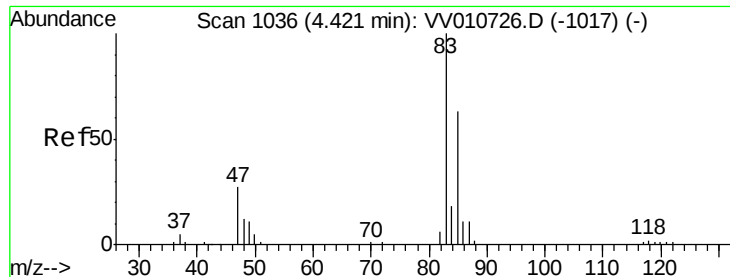


Abundance Ion 96.00 (95.70 to 96.70): VV010726.D (-876) (-)

Ion 61.00 (60.70 to 61.70): VV010726.D (-876) (-)

Ion 98.00 (97.70 to 98.70): VV010726.D (-876) (-)

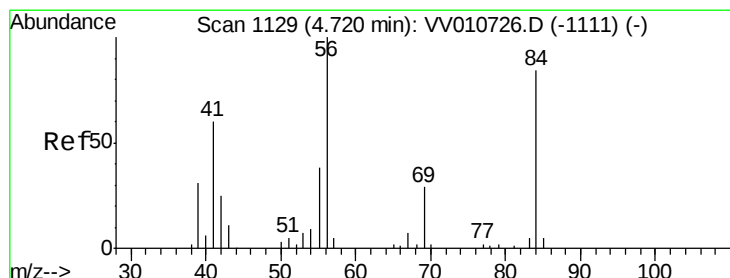
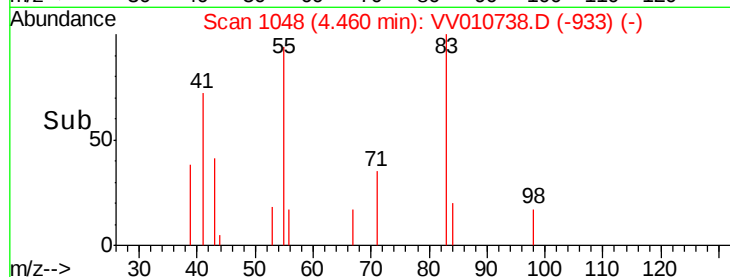
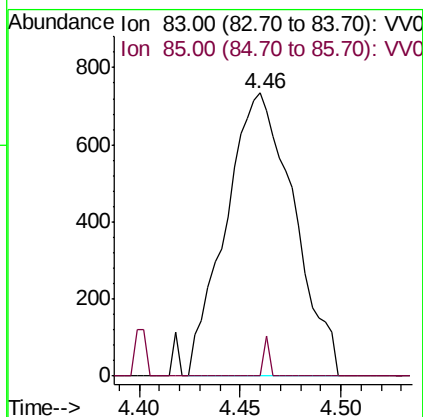
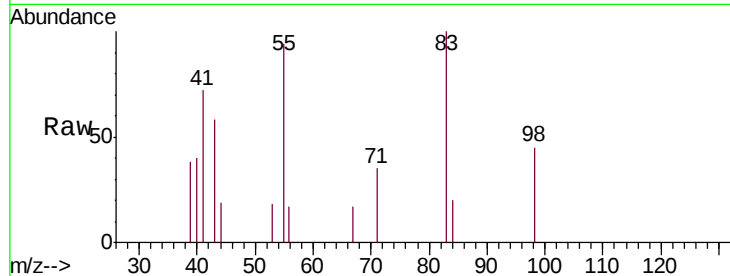




#25
Chloroform
Concen: 2.987 ug/L
RT: 4.46 min Scan# 1048
Delta R.T. 0.04 min
Lab File: VV010738.D
Acq: 08 May 2019 21:12

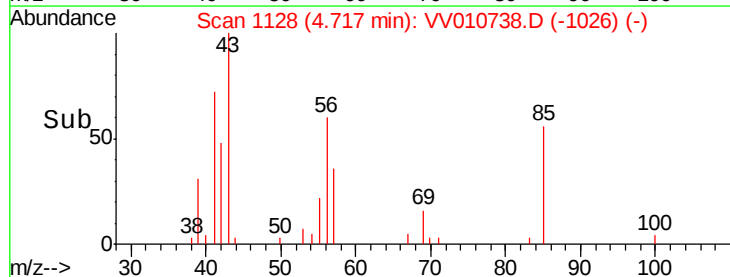
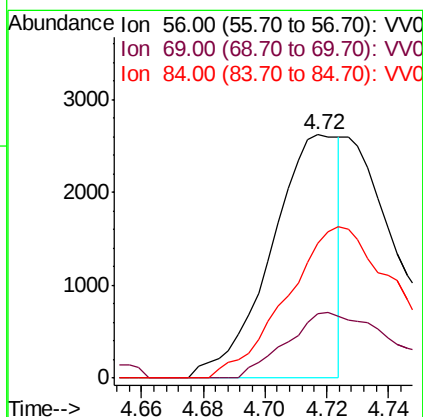
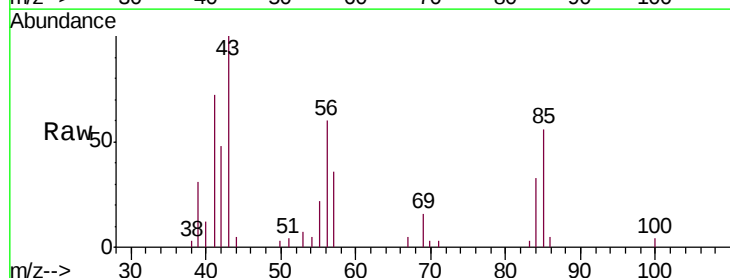
Instrument :
MSVOA_V
ClientSampled :
A5162

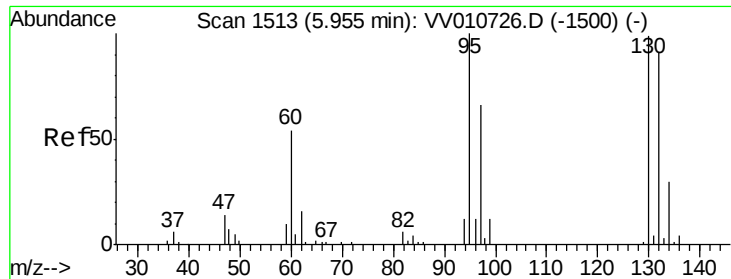
Tgt Ion: 83 Resp: 1726
Ion Ratio Lower Upper
83 100
85 2.7 44.6 82.8#



#30
Cyclohexane
Concen: 8.239 ug/L
RT: 4.72 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VV010738.D
Acq: 08 May 2019 21:12

Tgt Ion: 56 Resp: 3968
Ion Ratio Lower Upper
56 100
69 41.0 24.2 36.4#
84 101.3 66.5 99.7#





#35

Trichloroethene

Concen: 194.522 ug/L

RT: 5.97 min Scan# 1517

Delta R.T. 0.01 min

Lab File: VV010738.D

Acq: 08 May 2019 21:12

Instrument :

MSVOA_V

ClientSampleId :

A5162

Tgt Ion: 95 Resp: 61420

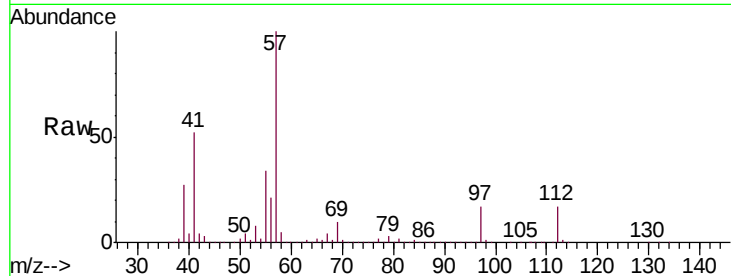
Ion Ratio Lower Upper

95 100

97 5241.1 44.3 82.3#

132 11.9 62.4 115.8#

130 11.9 68.5 127.3#

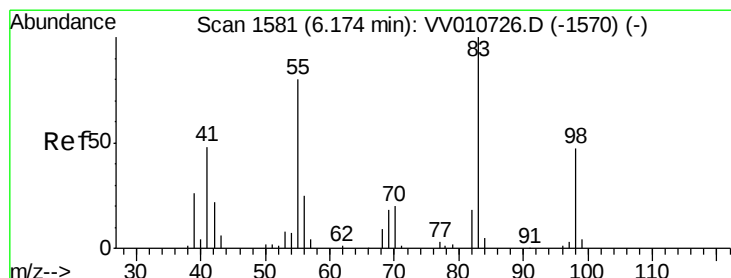
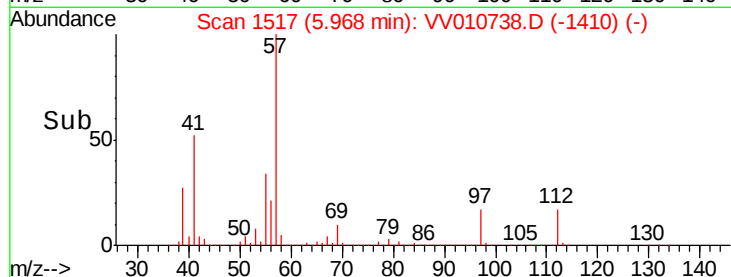
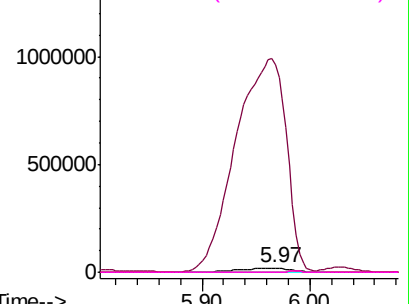


Abundance Ion 95.00 (94.70 to 95.70): VV0

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



#36

Methylcyclohexane

Concen: 263.092 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.01 min

Lab File: VV010738.D

Acq: 08 May 2019 21:12

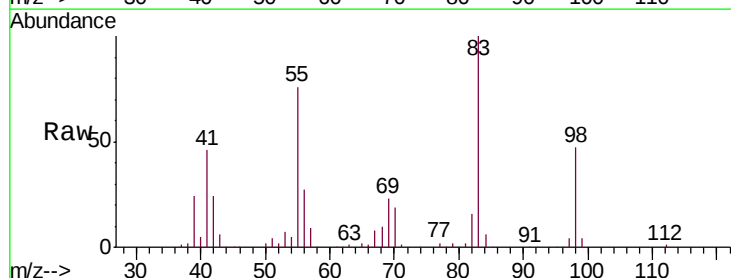
Tgt Ion: 83 Resp: 133140

Ion Ratio Lower Upper

83 100

55 69.0 64.6 96.8

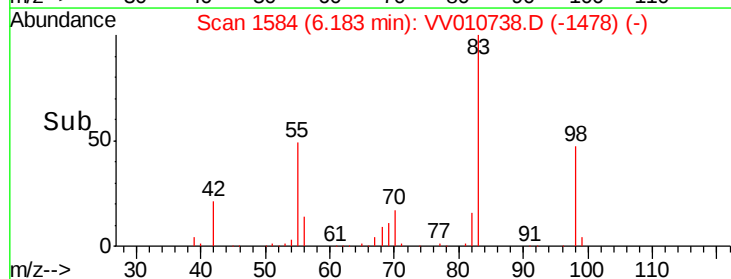
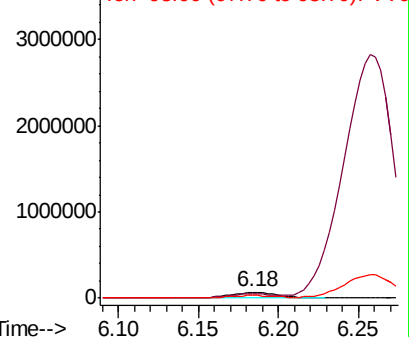
98 43.8 37.7 56.5

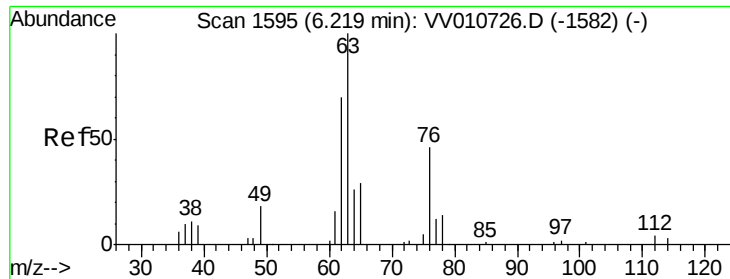


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

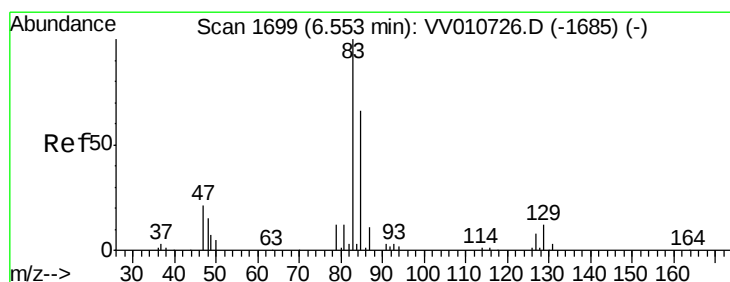
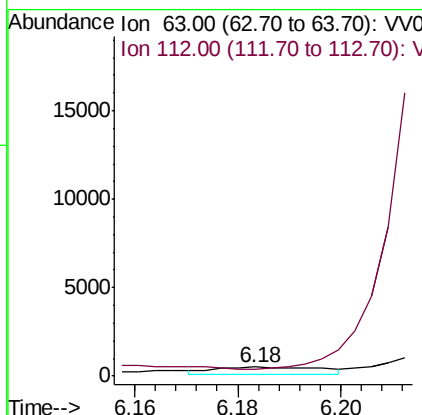
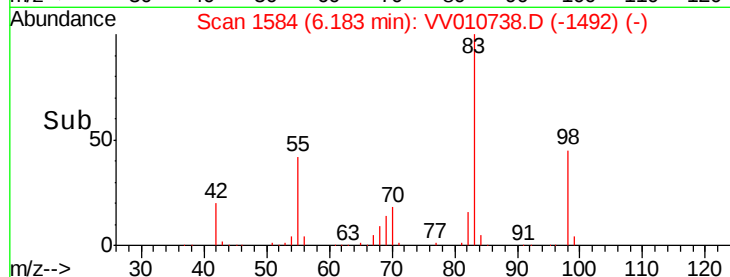
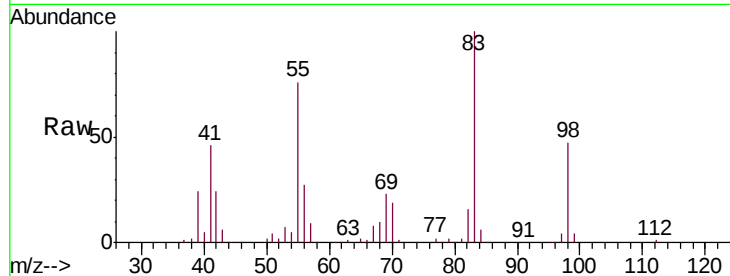




#40
 1,2-Dichloropropane
 Concen: 1.904 ug/L
 RT: 6.18 min Scan# 1584
 Delta R.T. -0.04 min
 Lab File: VV010738.D
 Acq: 08 May 2019 21:12

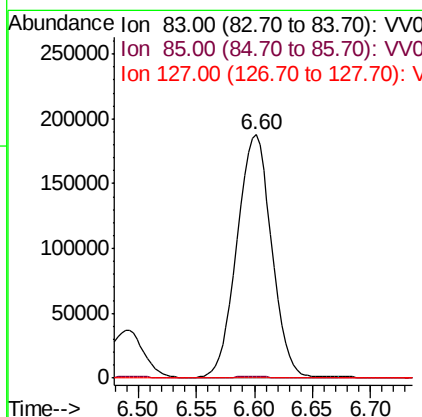
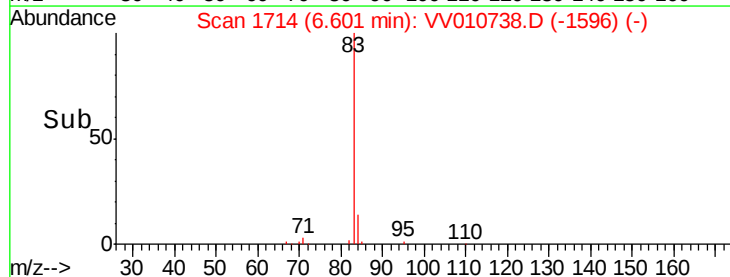
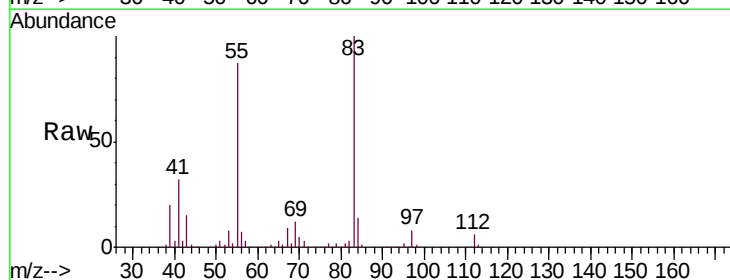
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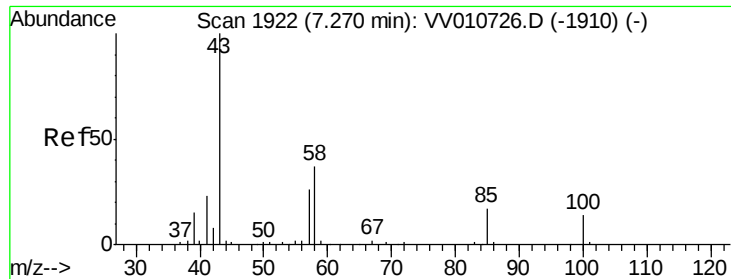
Tgt Ion: 63 Resp: 571
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.4 5.2#



#41
 Bromodichloromethane
 Concen: 946.334 ug/L
 RT: 6.60 min Scan# 1714
 Delta R.T. 0.05 min
 Lab File: VV010738.D
 Acq: 08 May 2019 21:12

Tgt Ion: 83 Resp: 389919
 Ion Ratio Lower Upper
 83 100
 85 0.7 43.5 80.7#
 127 0.0 6.2 9.4#

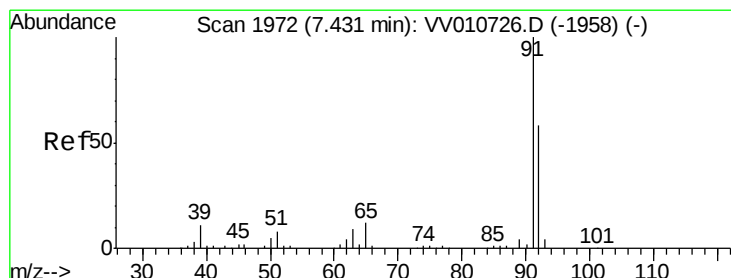
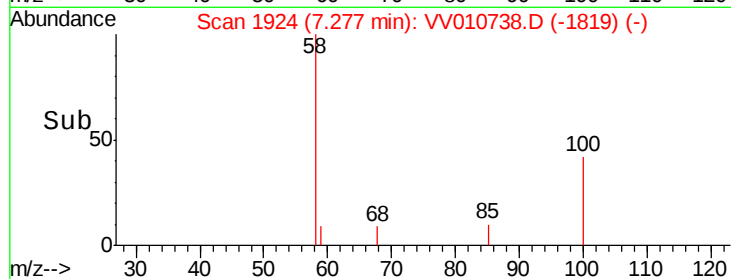
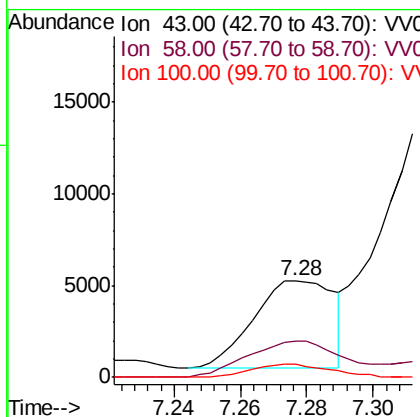
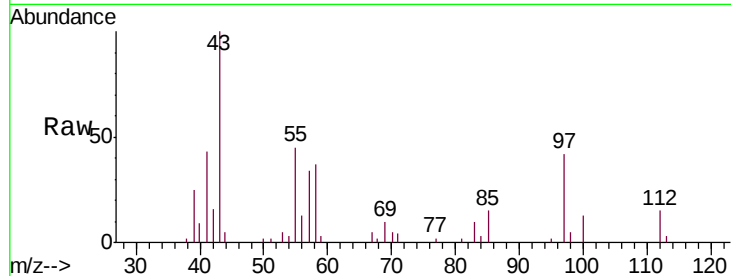




#43
 4-Methyl-2-pentanone
 Concen: 31.496 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.01 min
 Lab File: VV010738.D
 Acq: 08 May 2019 21:12

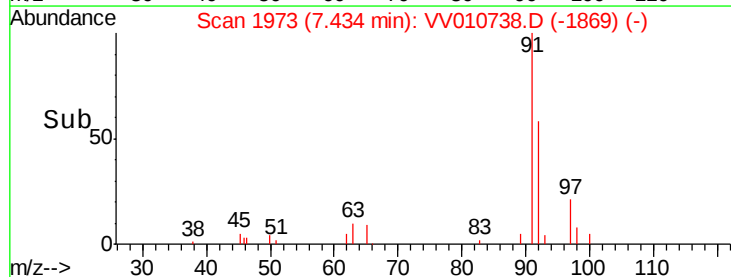
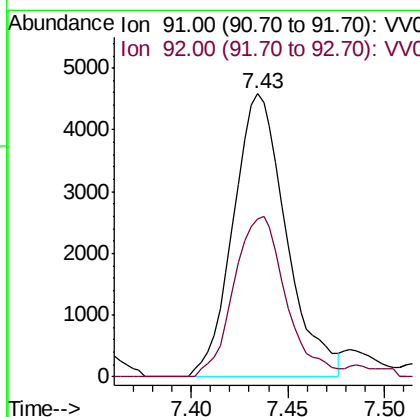
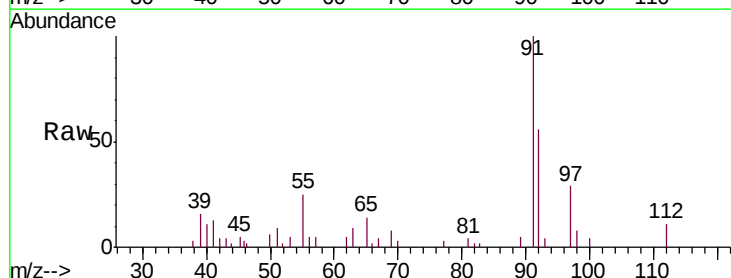
Instrument :
 MSVOA_V
 ClientSampled :
 A5162

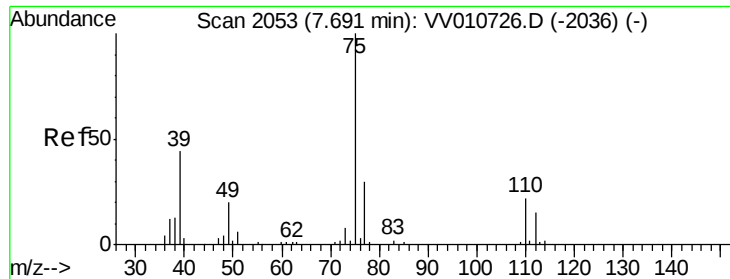
Tgt Ion: 43 Resp: 7950
 Ion Ratio Lower Upper
 43 100
 58 50.3 28.1 42.1#
 100 14.8 11.0 16.6



#44
 Toluene
 Concen: 6.833 ug/L
 RT: 7.43 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VV010738.D
 Acq: 08 May 2019 21:12

Tgt Ion: 91 Resp: 8748
 Ion Ratio Lower Upper
 91 100
 92 56.0 40.1 74.5





#45

trans-1,3-Dichloropropene

Concen: 2.123 ug/L

RT: 7.71 min Scan# 2059

Delta R.T. 0.02 min

Lab File: VV010738.D

Acq: 08 May 2019 21:12

Instrument :

MSVOA_V

ClientSampled :

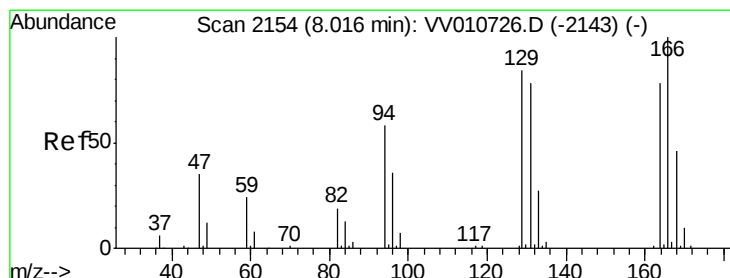
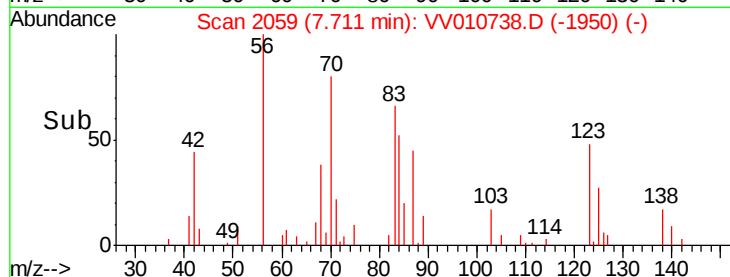
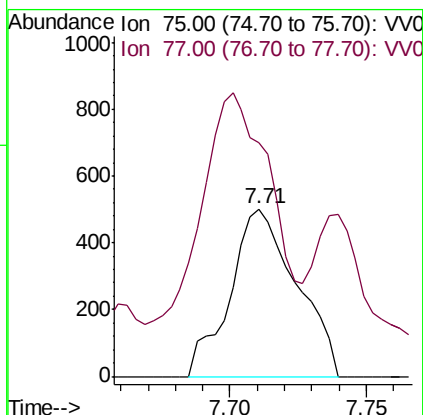
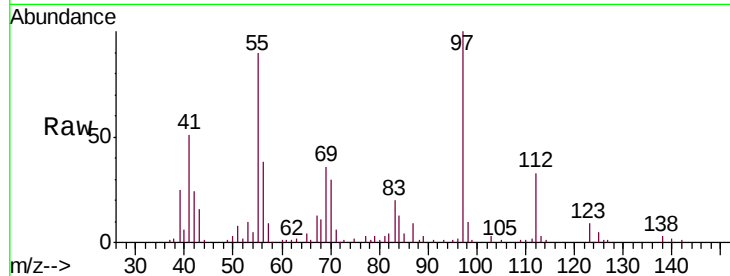
A5162

Tgt Ion: 75 Resp: 848

Ion Ratio Lower Upper

75 100

77 139.3 22.3 41.3#



#47

Tetrachloroethene

Concen: 2.637 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. 0.01 min

Lab File: VV010738.D

Acq: 08 May 2019 21:12

Tgt Ion: 164 Resp: 603

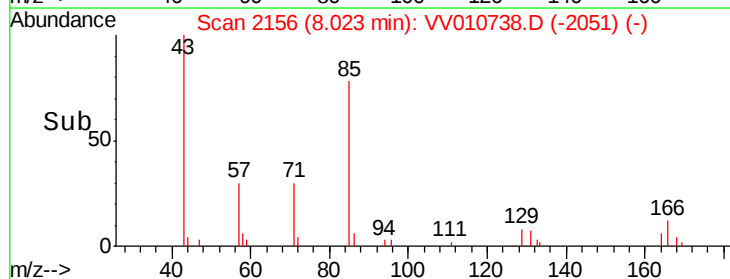
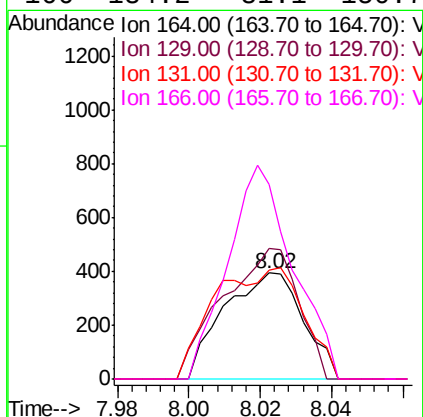
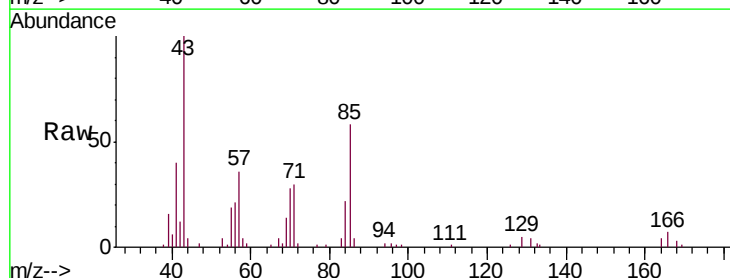
Ion Ratio Lower Upper

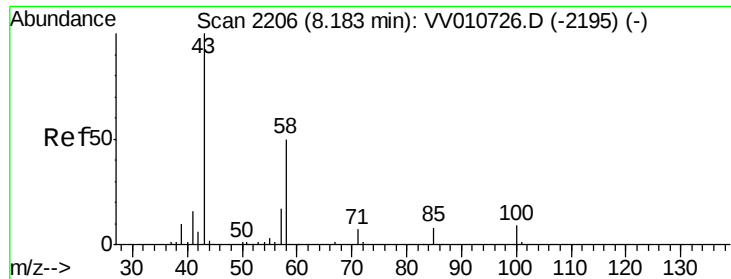
164 100

129 123.2 69.3 128.7

131 103.1 67.3 125.1

166 184.2 81.1 150.7#

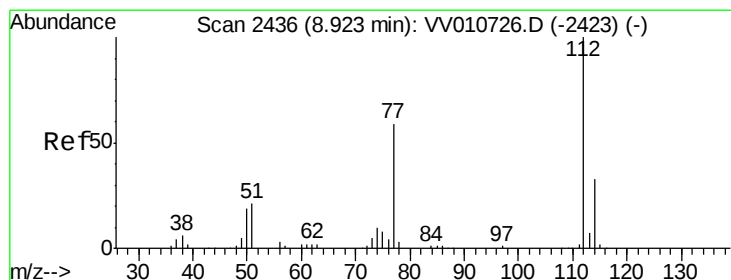
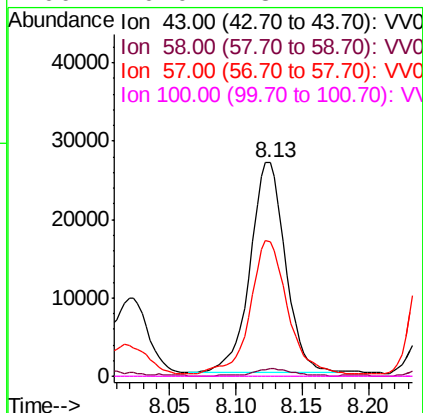
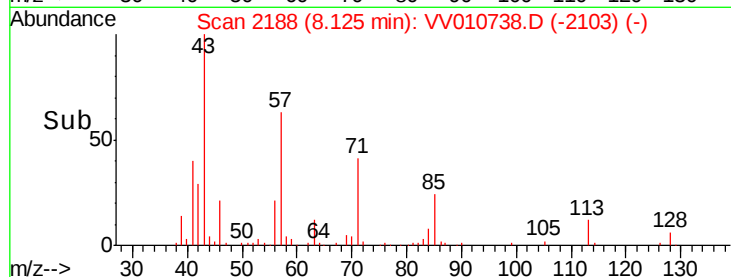
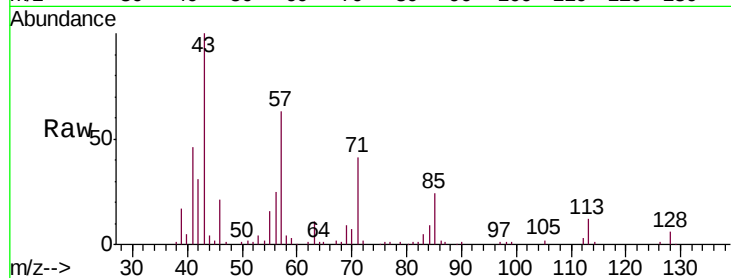




#49
2-Hexanone
Concen: 259.630 ug/L
RT: 8.13 min Scan# 2188
Delta R.T. -0.06 min
Lab File: VV010738.D
Acq: 08 May 2019 21:12

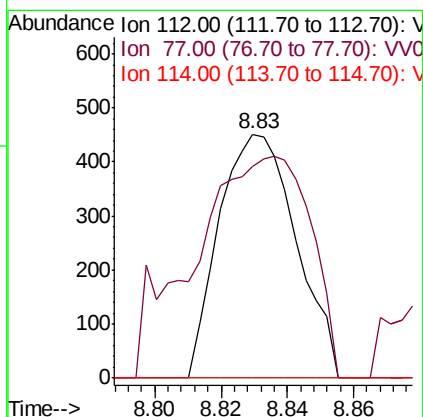
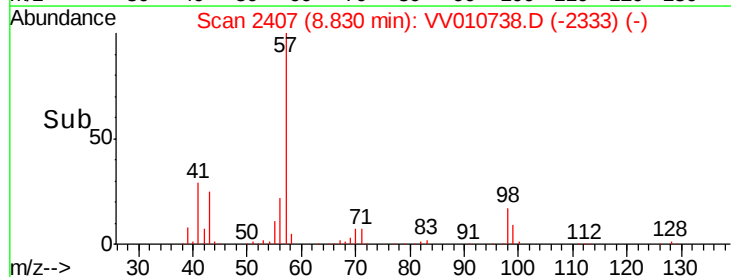
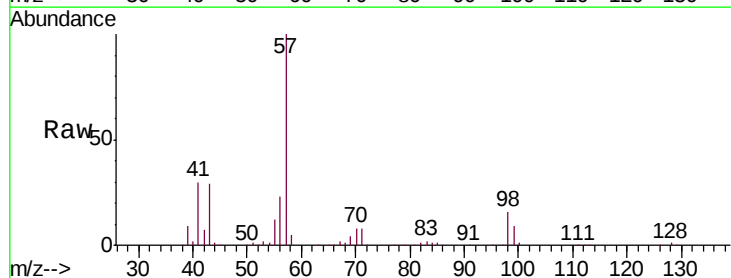
Instrument :
MSVOA_V
ClientSampleId :
A5162

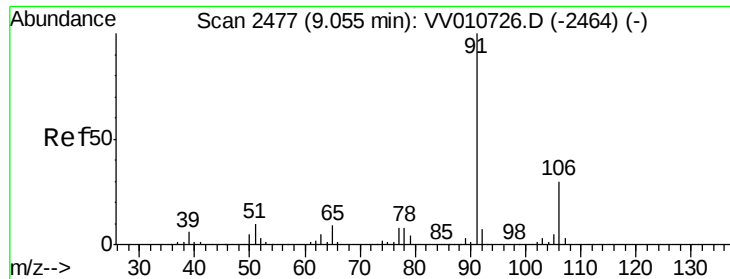
Tgt Ion: 43 Resp: 49825
Ion Ratio Lower Upper
43 100
58 3.2 39.4 59.0#
57 66.9 14.2 21.4#
100 0.0 8.2 12.2#



#52
Chlorobenzene
Concen: 0.869 ug/L
RT: 8.83 min Scan# 2407
Delta R.T. -0.09 min
Lab File: VV010738.D
Acq: 08 May 2019 21:12

Tgt Ion: 112 Resp: 727
Ion Ratio Lower Upper
112 100
77 86.7 47.7 71.5#
114 0.0 22.1 41.1#





#53

Ethylbenzene

Concen: 9.522 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV010738.D

Acq: 08 May 2019 21:12

Instrument :

MSVOA_V

ClientSampled :

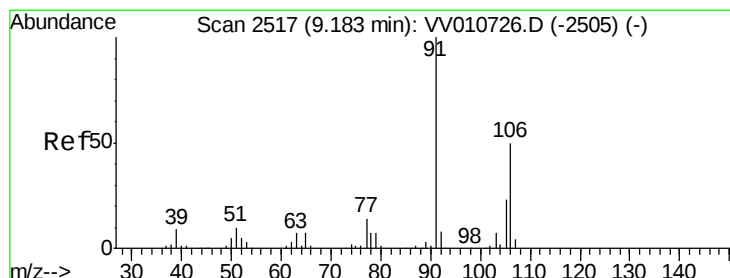
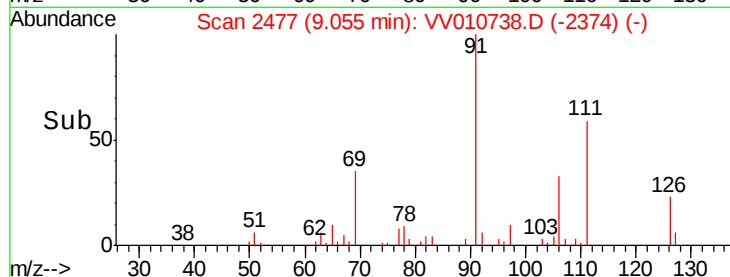
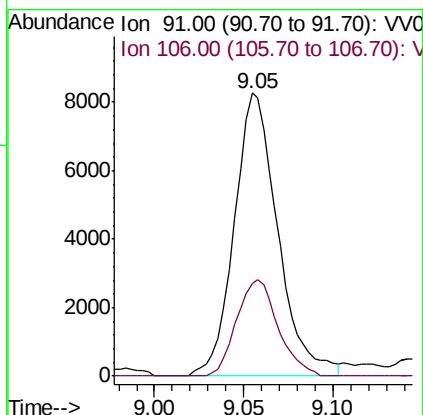
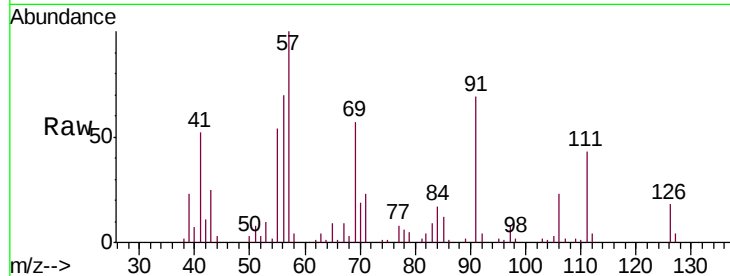
A5162

Tgt Ion: 91 Resp: 14135

Ion Ratio Lower Upper

91 100

106 32.8 21.8 40.6



#54

m,p-Xylene

Concen: 18.837 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV010738.D

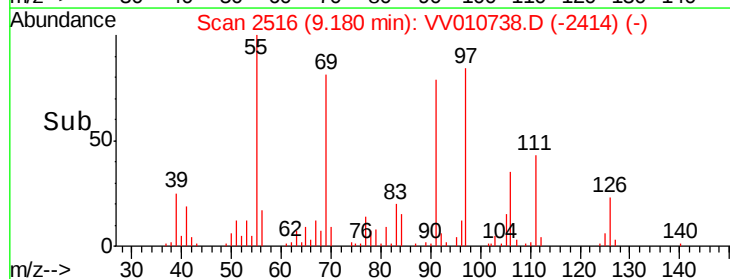
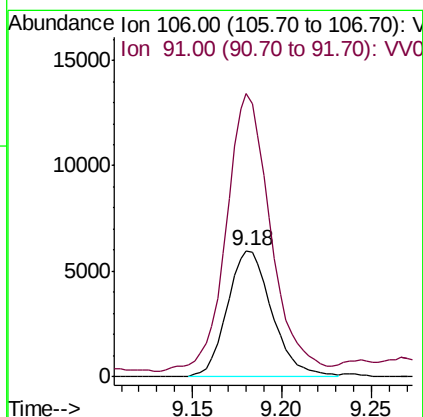
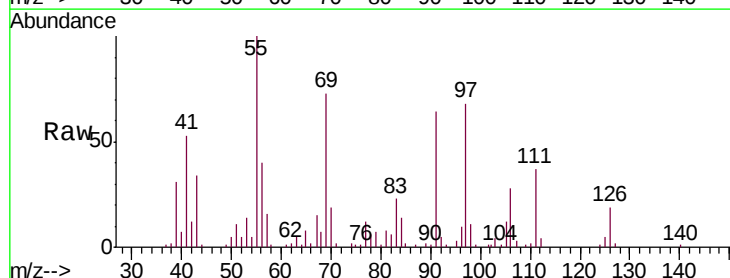
Acq: 08 May 2019 21:12

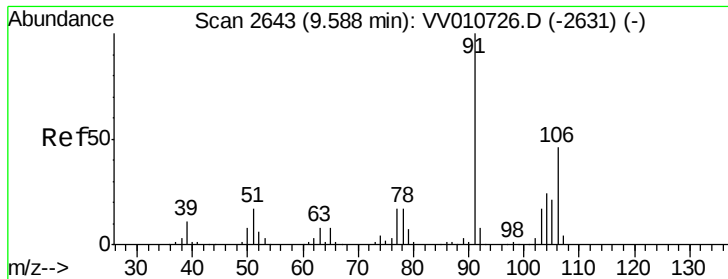
Tgt Ion: 106 Resp: 10447

Ion Ratio Lower Upper

106 100

91 224.2 145.4 270.0





#55

o-xylene

Concen: 1.476 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV010738.D

Acq: 08 May 2019 21:12

Instrument :

MSVOA_V

ClientSampled :

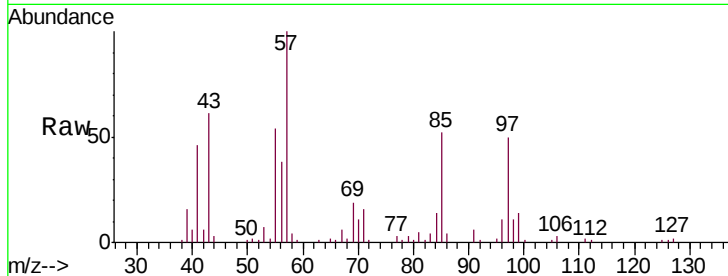
A5162

Tgt Ion:106 Resp: 812

Ion Ratio Lower Upper

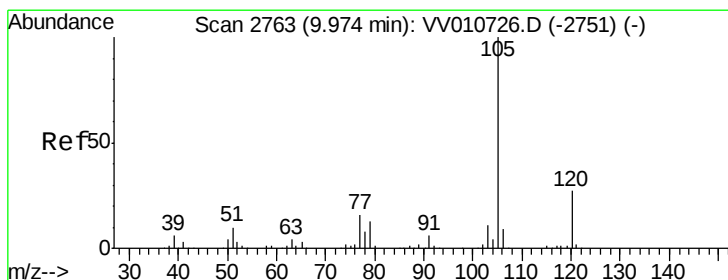
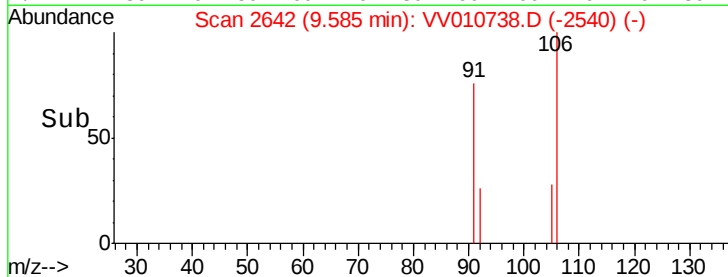
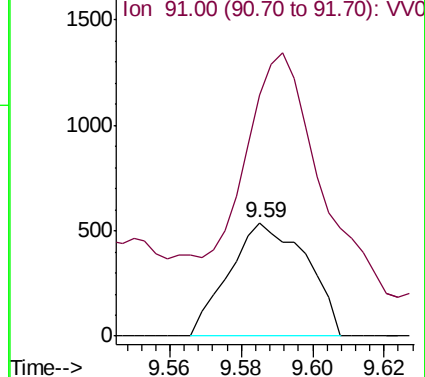
106 100

91 213.2 151.0 280.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#57

Isopropylbenzene

Concen: 39.401 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV010738.D

Acq: 08 May 2019 21:12

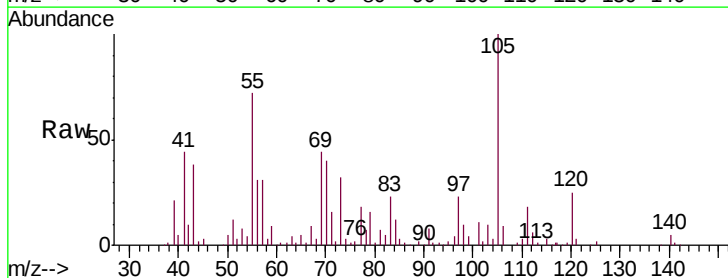
Tgt Ion:105 Resp: 57828

Ion Ratio Lower Upper

105 100

120 25.4 20.9 31.3

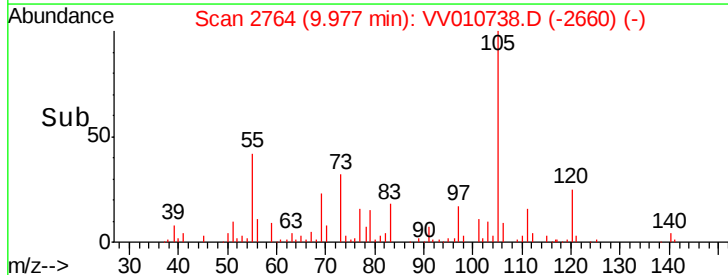
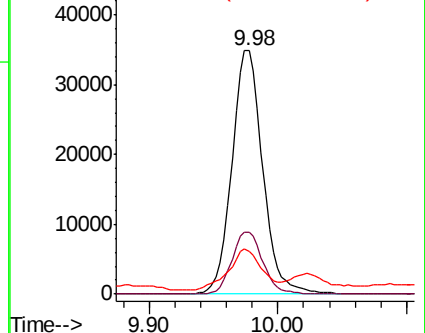
77 18.3 12.8 19.2

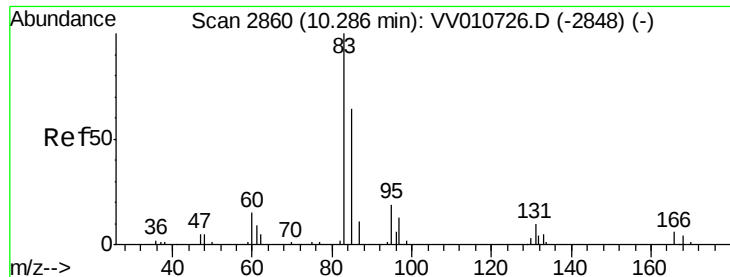


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#58

1,1,2,2-Tetrachloroethane

Concen: 249.691 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010738.D

Acq: 08 May 2019 21:12

Instrument :

MSVOA_V

ClientSampleId :

A5162

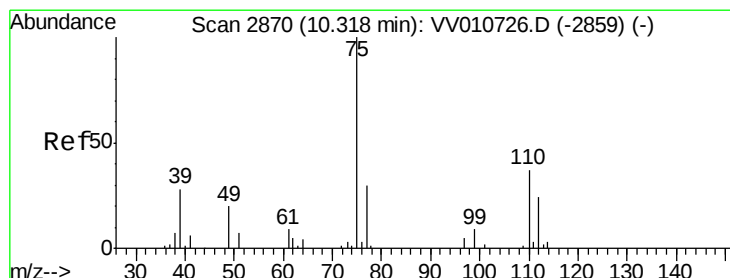
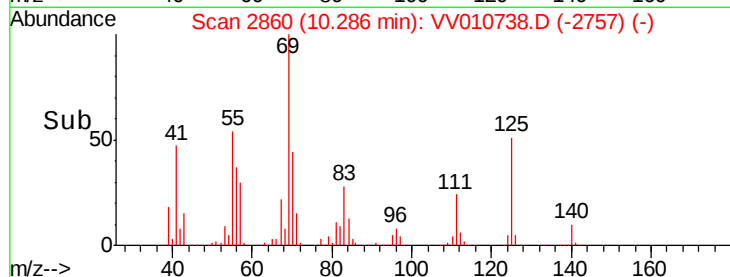
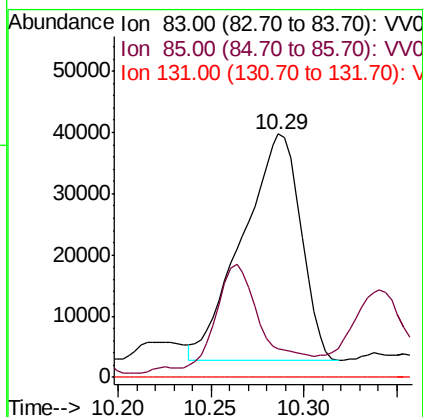
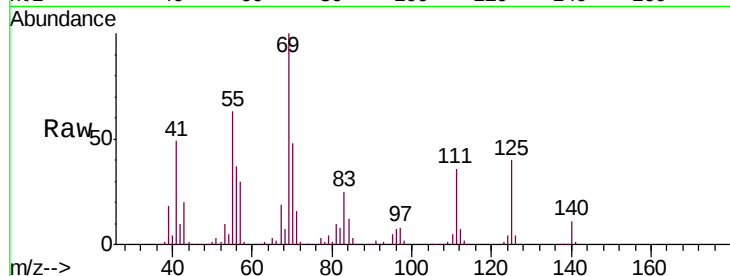
Tgt Ion: 83 Resp: 80587

Ion Ratio Lower Upper

83 100

85 11.5 44.6 82.8#

131 0.0 7.9 11.9#



#59

1,2,3-Trichloropropane

Concen: 6.416 ug/L

RT: 10.40 min Scan# 2895

Delta R.T. 0.08 min

Lab File: VV010738.D

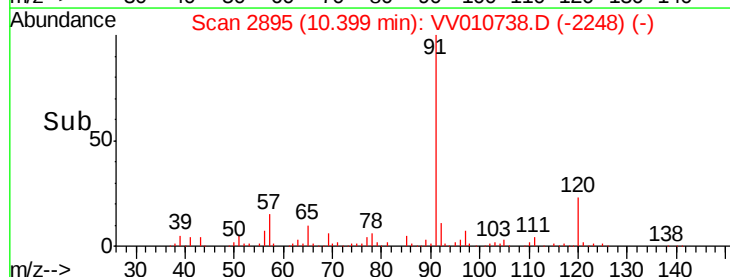
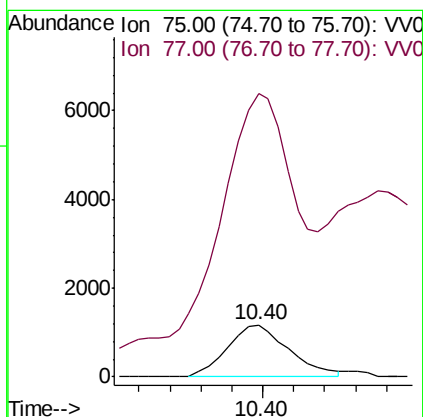
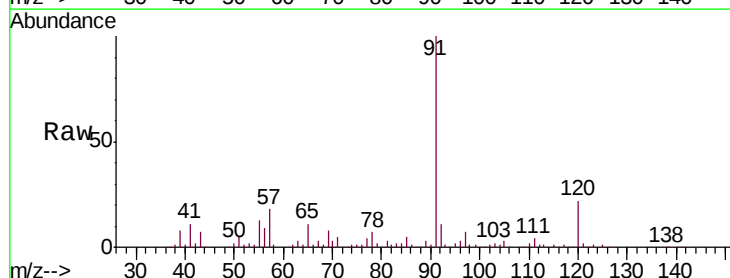
Acq: 08 May 2019 21:12

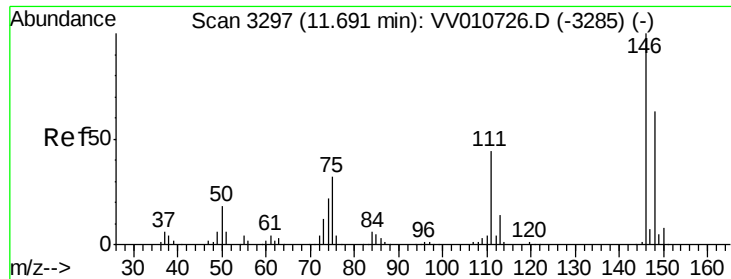
Tgt Ion: 75 Resp: 1616

Ion Ratio Lower Upper

75 100

77 609.5 25.0 37.6#





#65

1,2-Dichlorobenzene

Concen: 4.615 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV010738.D

Acq: 08 May 2019 21:12

Instrument :

MSVOA_V

ClientSampleId :

A5162

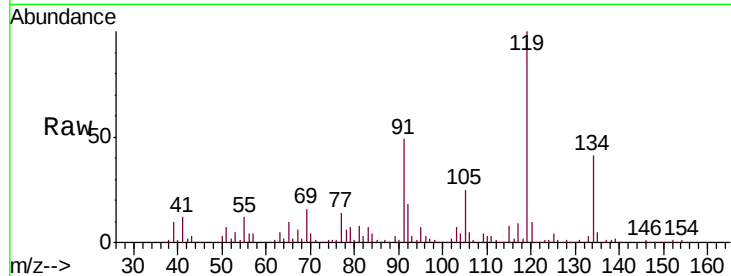
Tgt Ion:146 Resp: 2766

Ion Ratio Lower Upper

146 100

111 595.8 37.0 55.4#

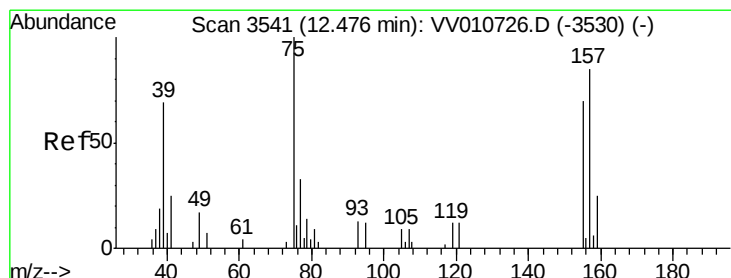
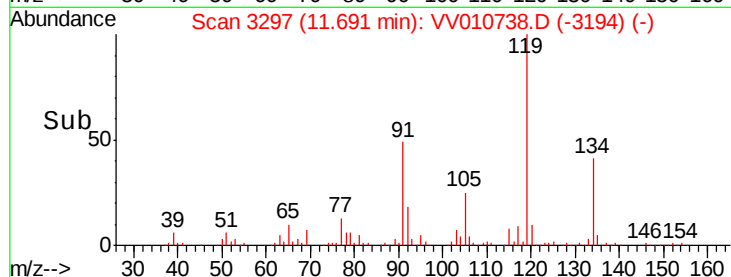
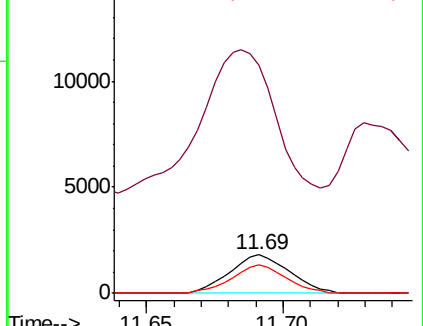
148 75.0 51.3 76.9



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



#66

1,2-Dibromo-3-chloropropane

Concen: 24.164 ug/L

RT: 12.51 min Scan# 3551

Delta R.T. 0.03 min

Lab File: VV010738.D

Acq: 08 May 2019 21:12

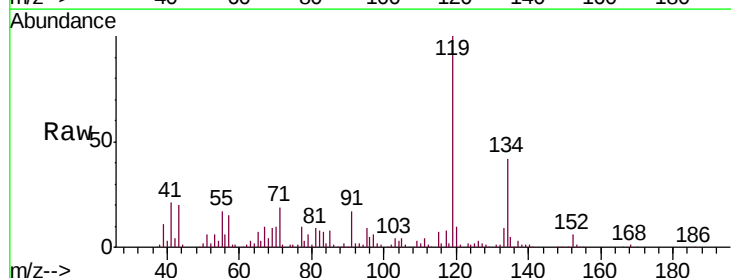
Tgt Ion: 75 Resp: 1344

Ion Ratio Lower Upper

75 100

157 0.0 76.9 115.3#

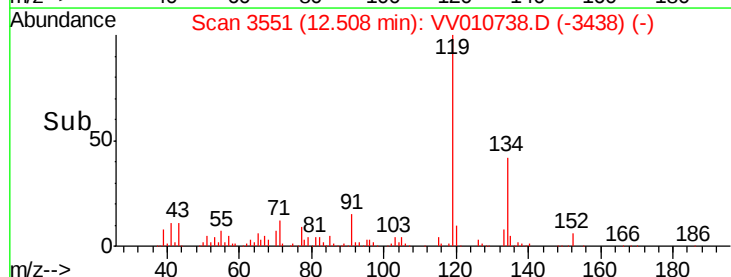
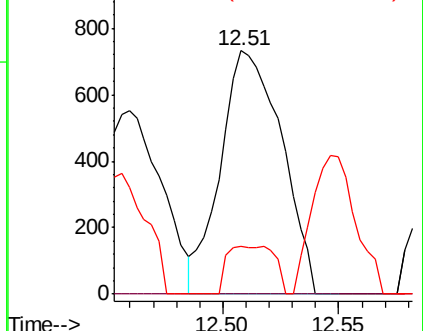
155 19.6 57.9 86.9#

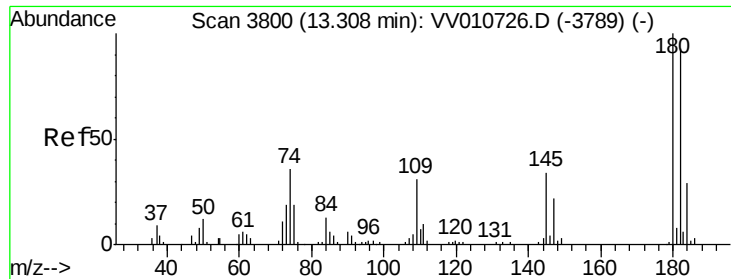


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

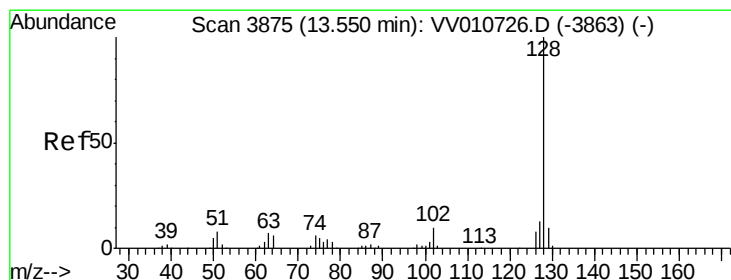
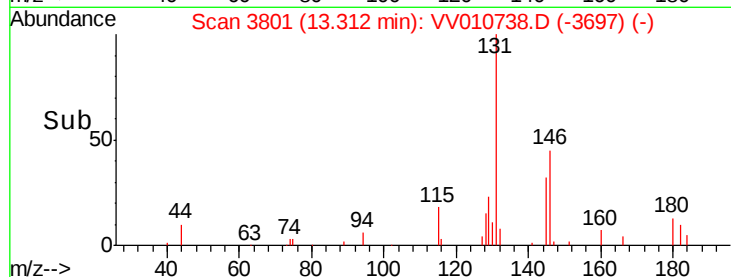
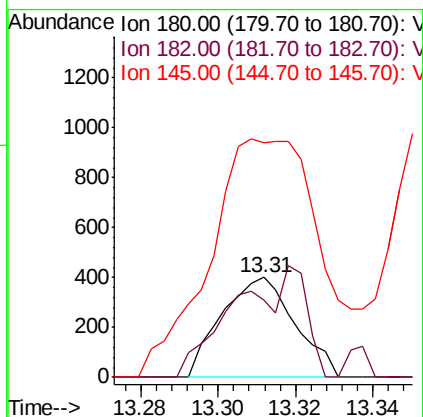
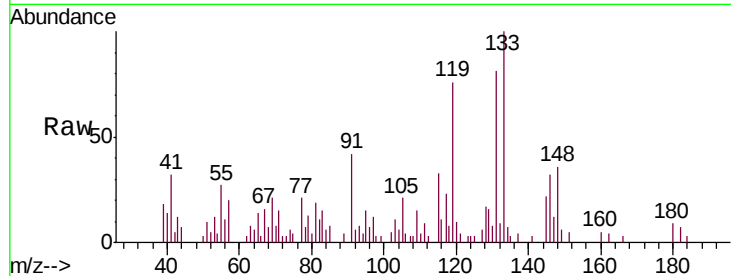




#68
 1,2,4-trichlorobenzene
 Concen: 1.532 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV010738.D
 Acq: 08 May 2019 21:12

Instrument :
 MSVOA_V
 ClientSampleId :
 A5162

Tgt Ion:180 Resp: 527
 Ion Ratio Lower Upper
 180 100
 182 70.4 77.1 115.7#
 145 190.7 28.3 42.5#



#69
 Naphthalene
 Concen: 9.665 ug/L
 RT: 13.55 min Scan# 3875
 Delta R.T. 0.00 min
 Lab File: VV010738.D
 Acq: 08 May 2019 21:12

Tgt Ion:128 Resp: 7116
 Ion Ratio Lower Upper
 128 100
 129 5.9 8.3 12.5#
 127 16.1 10.8 16.2

