

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101719\
 Data File : VV013174.D
 Acq On : 17 Oct 2019 16:11
 Operator : SY/MD
 Sample : VSTD0.535
 Misc : 25.00ML/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 18 01:53:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 18 01:50:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	477475	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	498072	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	252235	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	19787	0.41	ug/L	0.00
7) Chloroethane-d5	1.58	69	15193	0.40	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	30685	0.43	ug/L	0.00
20) 2-Butanone-d5	3.99	46	4627	0.47	ug/L	0.03
24) Chloroform-d	4.40	84	33414	0.42	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.09	65	14350	0.37	ug/L	0.00
32) Benzene-d6	5.10	84	61500	0.36	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	21475	0.42	ug/L	0.00
41) Toluene-d8	7.36	98	50933	0.34	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	6721	0.36	ug/L	0.00
46) 2-Hexanone-d5	8.14	63	19415	2.53	ug/L	0.01
57) 1,1,2,2-Tetrachloroethane-	10.26	84	13728	0.35	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	19699	0.36	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	27598	0.722 ug/L	97
3) Chloromethane	1.25	50	28063	0.686 ug/L	100
5) Vinyl chloride	1.32	62	25764	0.575 ug/L	96
6) Bromomethane	1.54	94	16310	0.716 ug/L	100
8) Chloroethane	1.60	64	14564	0.618 ug/L	99
9) Trichlorofluoromethane	1.77	101	33917	0.617 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	20461	0.640 ug/L	94
12) 1,1-Dichloroethene	2.14	96	16587	0.563 ug/L	92
14) Carbon disulfide	2.32	76	60097	0.818 ug/L	97
16) Methylene chloride	2.54	84	56469	1.518 ug/L	96
17) Methyl tert-butyl Ether	2.81	73	37512	0.475 ug/L #	92
18) trans-1,2-Dichloroethene	2.79	96	21345	0.626 ug/L	98
19) 1,1-Dichloroethane	3.23	63	37699	0.560 ug/L	97
22) cis-1,2-Dichloroethene	3.97	96	21156	0.572 ug/L #	86
23) Bromochloromethane	4.30	128	9686	0.595 ug/L	94
25) Chloroform	4.43	83	47544	0.641 ug/L	99
27) 1,2-Dichloroethane	5.19	62	22768	0.572 ug/L #	91
29) 1,1,1-Trichloroethane	4.66	97	31981	0.546 ug/L	98
30) Cyclohexane	4.72	56	29941	0.563 ug/L #	96
31) Carbon tetrachloride	4.87	117	27720	0.549 ug/L	99
33) Benzene	5.15	78	79093	0.531 ug/L	100
34) Trichloroethene	5.96	95	21026	0.549 ug/L	95
35) Methylcyclohexane	6.17	83	28505	0.522 ug/L	94
37) 1,2-Dichloropropane	6.22	63	18598	0.474 ug/L #	94
38) Bromodichloromethane	6.55	83	26215	0.516 ug/L	95
39) cis-1,3-Dichloropropene	7.07	75	23901	0.453 ug/L	97
40) 4-Methyl-2-pentanone	7.28	43	88530	3.673 ug/L	95
42) Toluene	7.43	91	73865	0.474 ug/L	97
44) trans-1,3-Dichloropropene	7.70	75	18648	0.449 ug/L	90
45) 1,1,2-Trichloroethane	7.88	97	14127	0.492 ug/L	96

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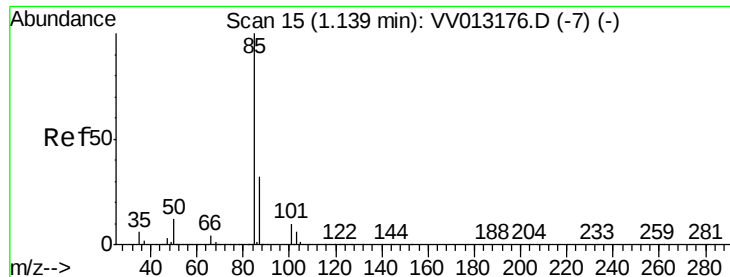
Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 18 01:53:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR101719WMA.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

47) Tetrachloroethene	8.02	164	19471	0.613	ug/L	96
48) 2-Hexanone	8.19	43	57950	3.322	ug/L	95
49) Dibromochloromethane	8.29	129	15759	0.472	ug/L	98
50) 1,2-Dibromoethane	8.40	107	12546	0.512	ug/L #	98
51) Chlorobenzene	8.92	112	52680	0.506	ug/L	98
52) Ethylbenzene	9.05	91	77848	0.466	ug/L	92
53) m,p-xylene	9.18	106	26478	0.424	ug/L	97
54) o-xylene	9.59	106	25556	0.420	ug/L	95
55) Styrene	9.60	104	39324	0.381	ug/L	93
56) Isopropylbenzene	9.97	105	68970	0.424	ug/L	96
58) 1,1,2,2-Tetrachloroethane	10.28	83	16318	0.459	ug/L	90
59) 1,2,3-Trichloropropane	10.32	75	11949	0.482	ug/L	96
61) Bromoform	9.77	173	9203	0.499	ug/L	94
62) 1,3-Dichlorobenzene	11.22	146	36911	0.452	ug/L	98
63) 1,4-Dichlorobenzene	11.31	146	39305	0.474	ug/L	96
65) 1,2-Dichlorobenzene	11.69	146	36809	0.465	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.48	75	2855	0.536	ug/L #	76
67) 1,3,5-Trichlorobenzene	12.69	180	26352	0.423	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	21565	0.425	ug/L	98
69) Naphthalene	13.55	128	26307	0.346	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	18851	0.380	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 0.722 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

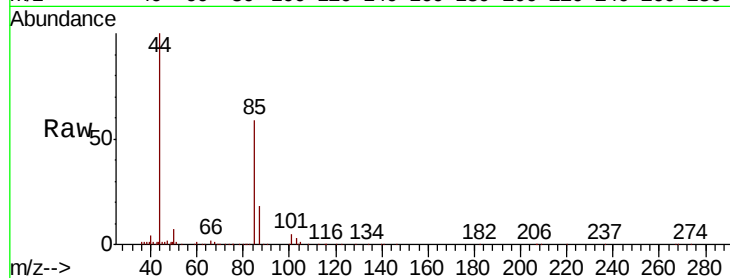
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 27598

Ion Ratio Lower Upper

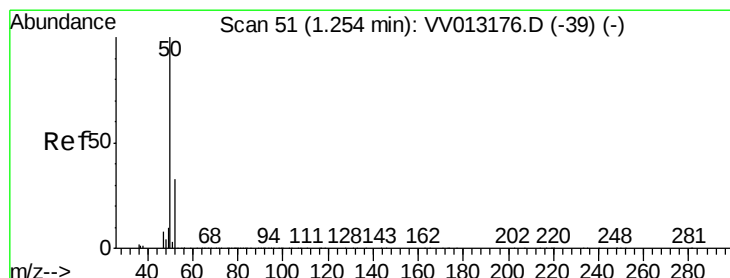
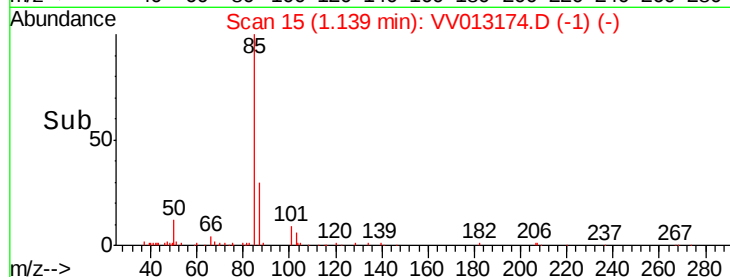
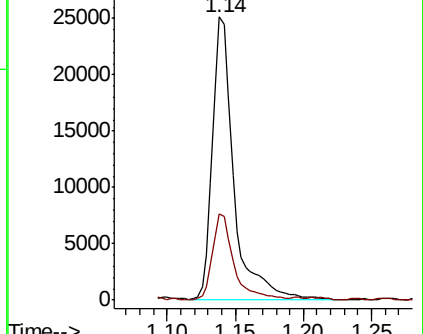
85 100

87 30.4 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 0.686 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV013174.D

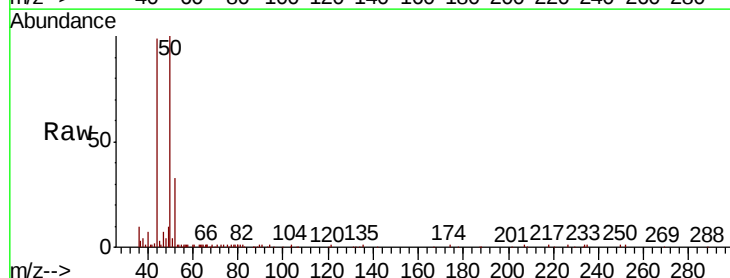
Acq: 17 Oct 2019 16:11

Tgt Ion: 50 Resp: 28063

Ion Ratio Lower Upper

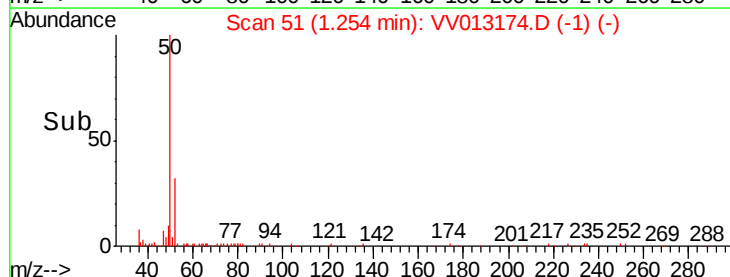
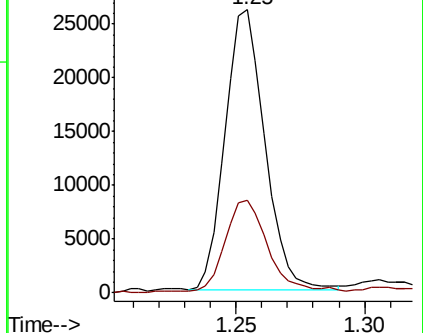
50 100

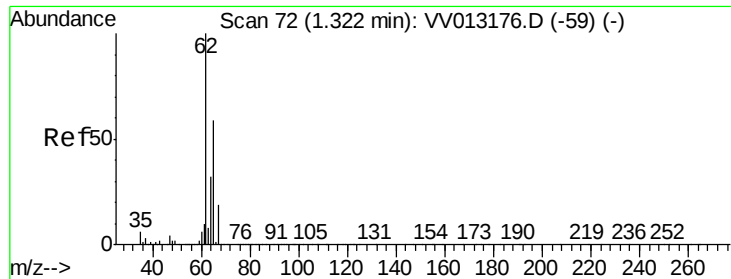
52 32.7 23.0 42.8



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 0.575 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Instrument :

MSVOA_V

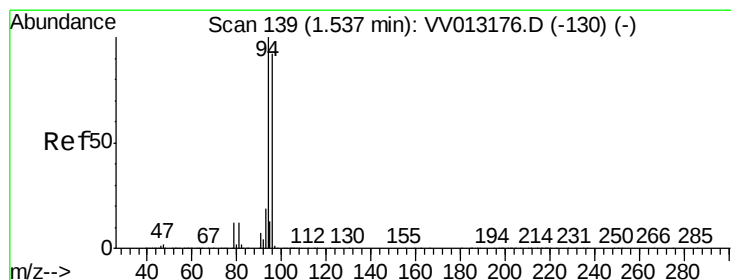
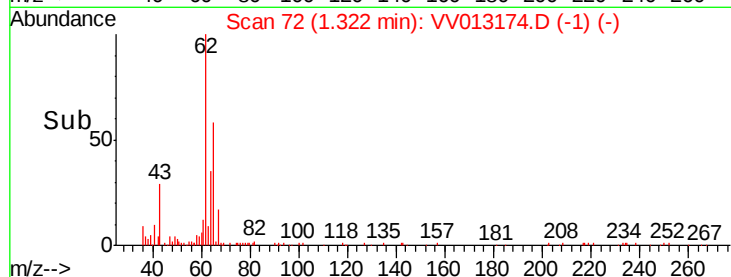
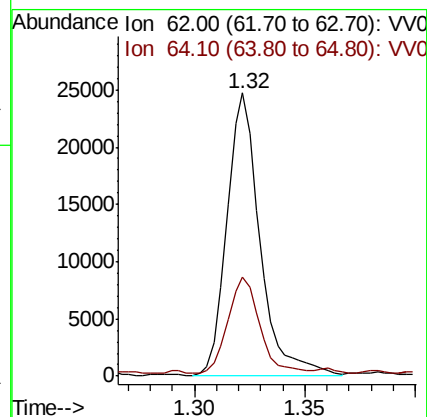
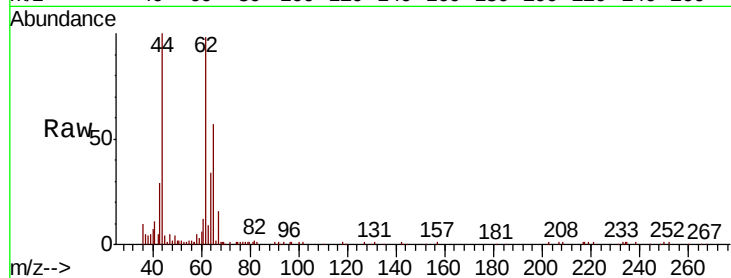
ClientSampled :

Tot Ion: 62 Resp: 25764

Ion Ratio Lower Upper

62 100

64 34.9 22.7 42.3



#6

Bromomethane

Concen: 0.716 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV013174.D

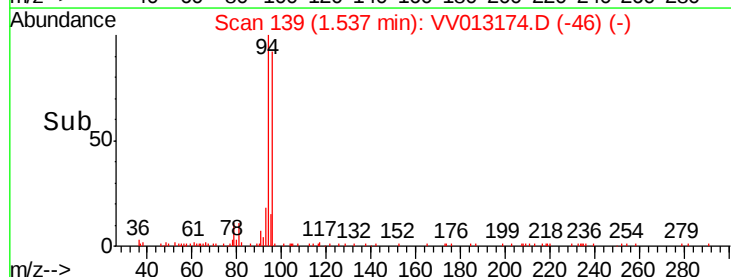
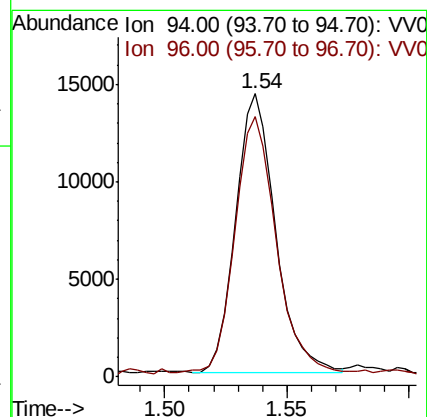
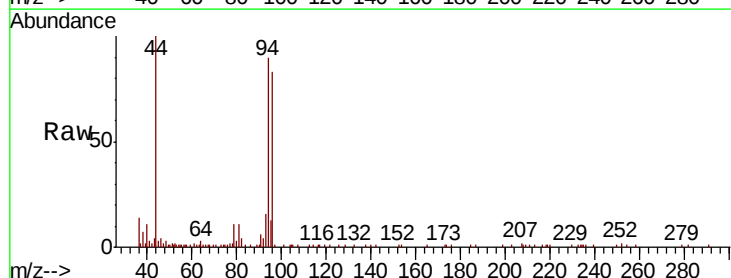
Acq: 17 Oct 2019 16:11

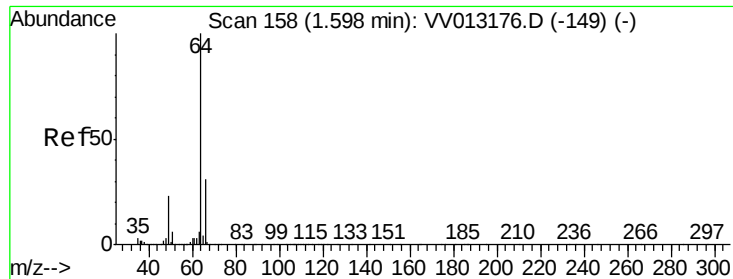
Tgt Ion: 94 Resp: 16310

Ion Ratio Lower Upper

94 100

96 91.9 64.6 120.0





#8

Chloroethane

Concen: 0.618 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Instrument :

MSVOA_V

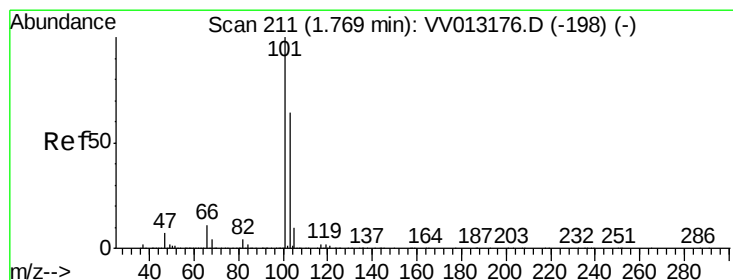
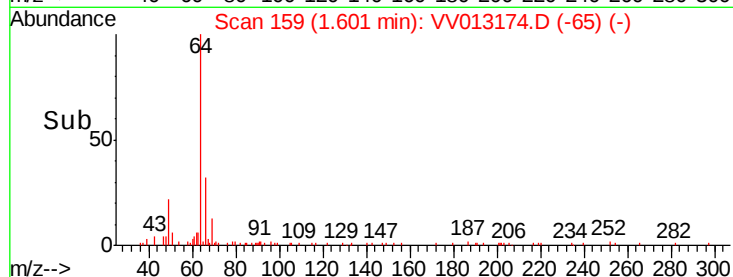
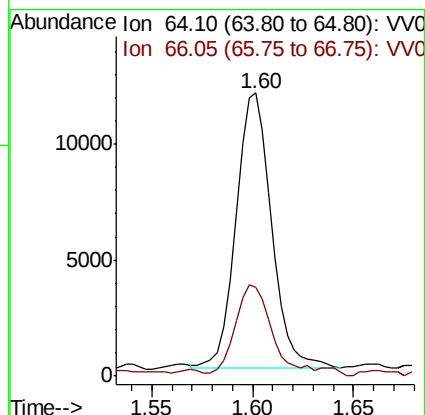
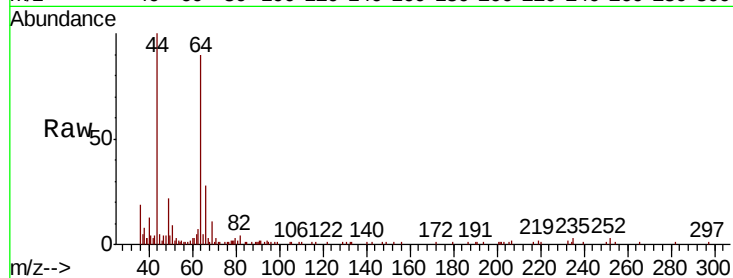
ClientSampleId :

Tot Ion: 64 Resp: 14564

Ion Ratio Lower Upper

64 100

66 31.6 21.6 40.2



#9

Trichlorofluoromethane

Concen: 0.617 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV013174.D

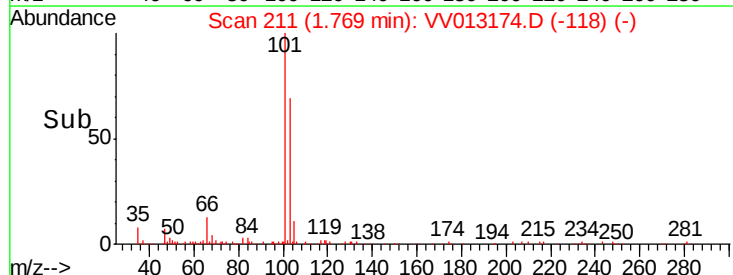
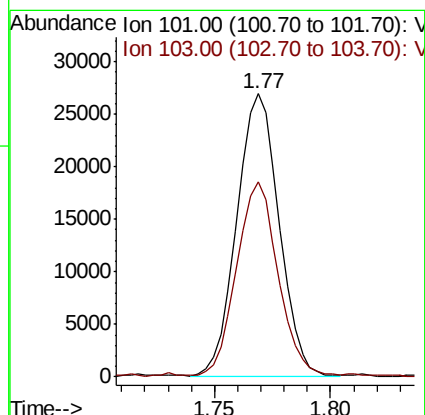
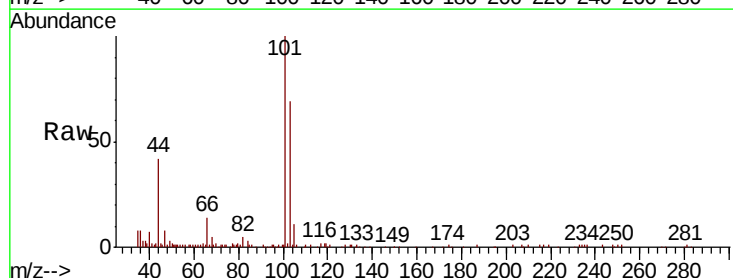
Acq: 17 Oct 2019 16:11

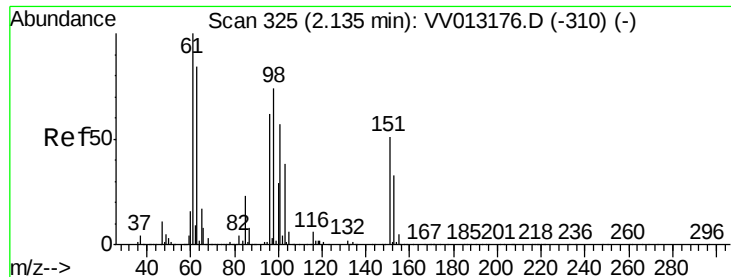
Tgt Ion: 101 Resp: 33917

Ion Ratio Lower Upper

101 100

103 67.0 51.5 77.3





#10

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

Concen: 0.640 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Instrument :

MSVOA_V

ClientSampleId :

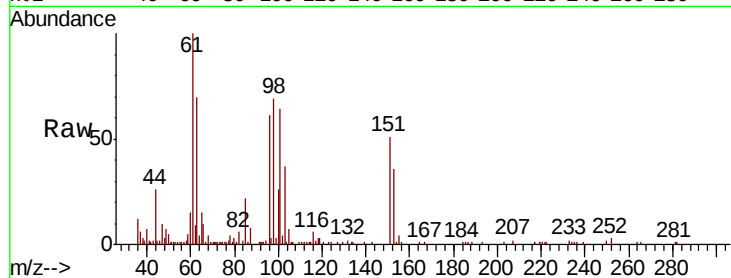
Tot Ion:101 Resp: 20461

Ion Ratio Lower Upper

101 100

85 36.6 32.4 48.6

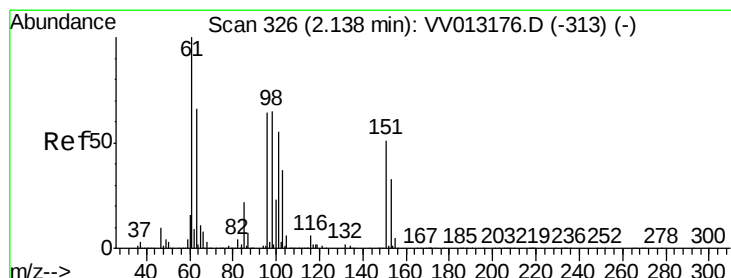
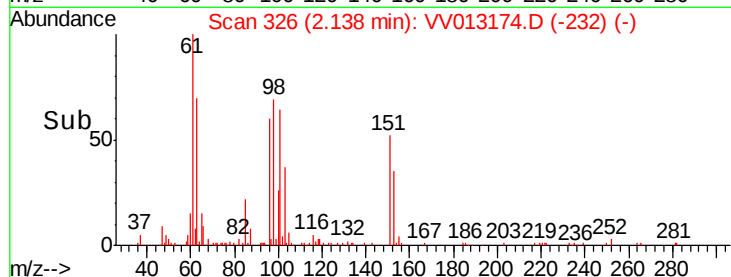
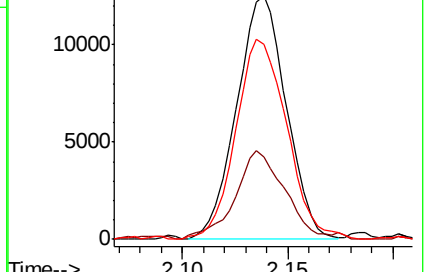
151 84.4 71.9 107.9



Abundance Ion 101.00 (100.70 to 101.70): VV013174.D (-310) (-)

Ion 85.00 (84.70 to 85.70): VV013174.D (-310) (-)

Ion 151.00 (150.70 to 151.70): VV013174.D (-310) (-)



#12

1,1-Dichloroethene

Concen: 0.563 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

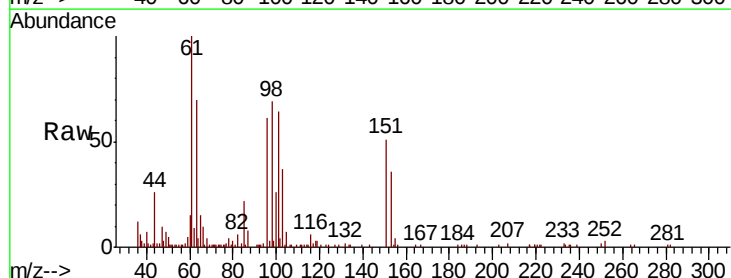
Tgt Ion: 96 Resp: 16587

Ion Ratio Lower Upper

96 100

61 164.3 109.8 204.0

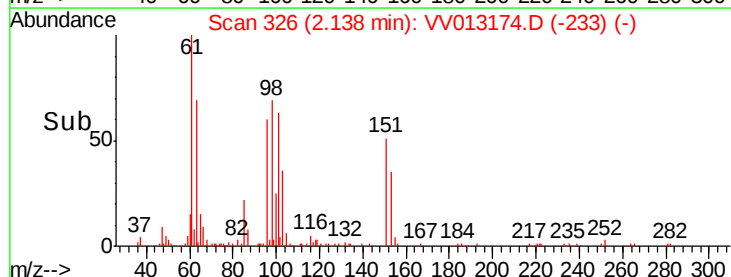
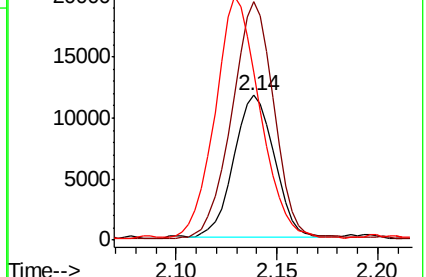
63 115.6 72.6 134.8

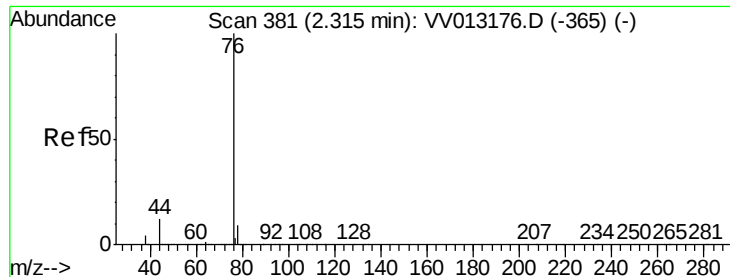


Abundance Ion 96.00 (95.70 to 96.70): VV013174.D (-232) (-)

Ion 61.05 (60.75 to 61.75): VV013174.D (-232) (-)

Ion 63.00 (62.70 to 63.70): VV013174.D (-232) (-)





#14

Carbon disulfide

Concen: 0.818 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

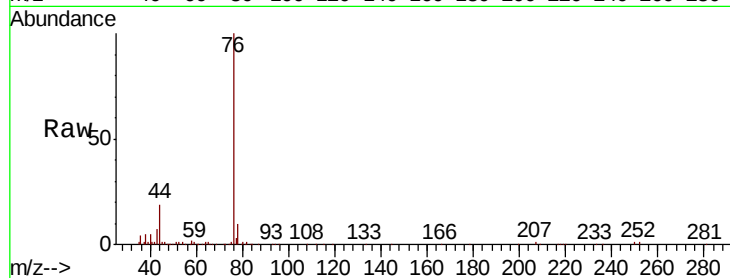
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 76 Resp: 60097

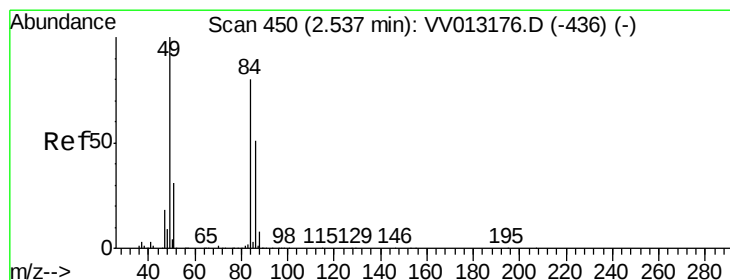
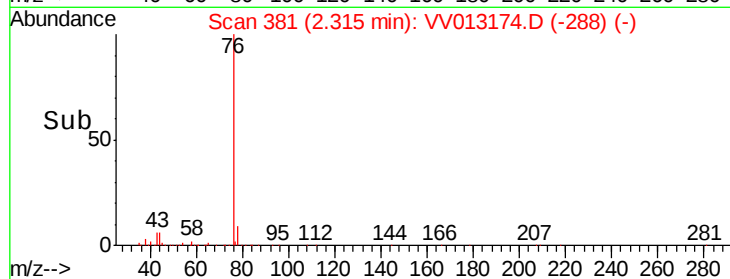
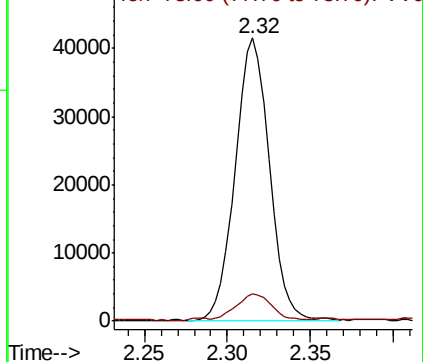
Ion Ratio Lower Upper

76 100

78 9.8 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VV0
Ion 78.00 (77.70 to 78.70): VV0



#16

Methylene chloride

Concen: 1.518 ug/L

RT: 2.54 min Scan# 450

Delta R.T. -0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

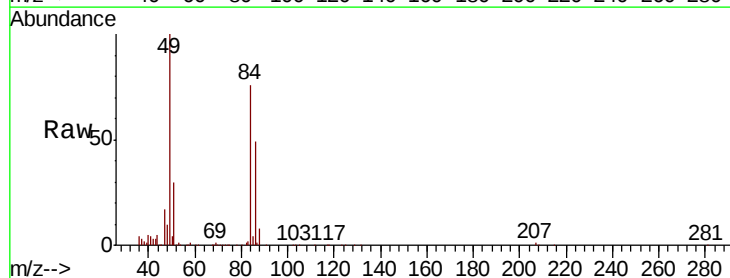
Tgt Ion: 84 Resp: 56469

Ion Ratio Lower Upper

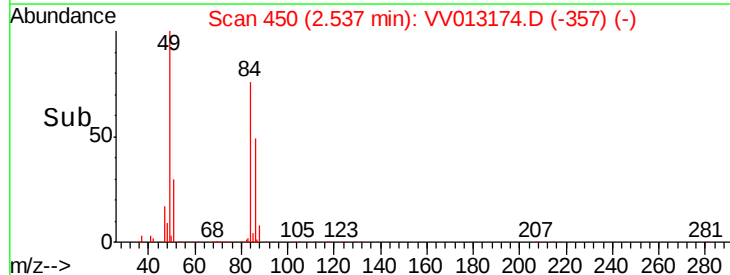
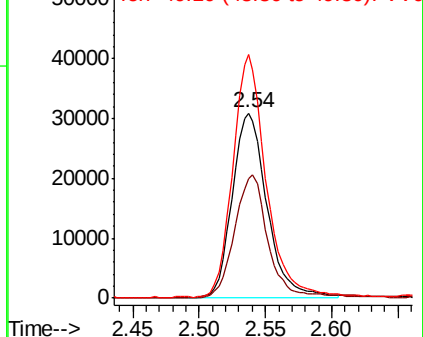
84 100

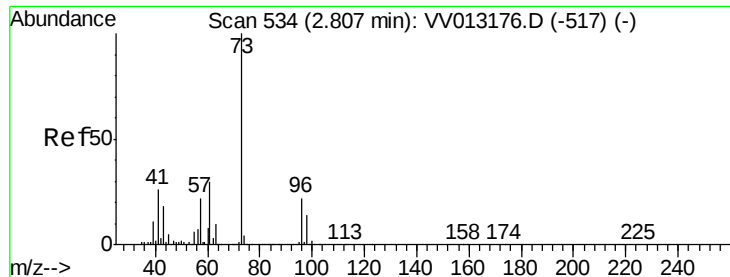
86 64.7 44.5 82.7

49 131.4 87.3 162.1



Abundance Ion 84.05 (83.75 to 84.75): VV0
Ion 86.00 (85.70 to 86.70): VV0
Ion 49.10 (48.80 to 49.80): VV0

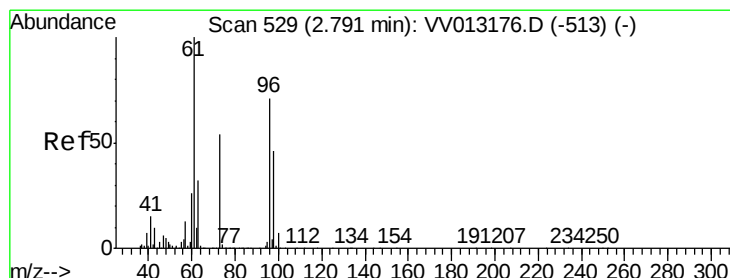
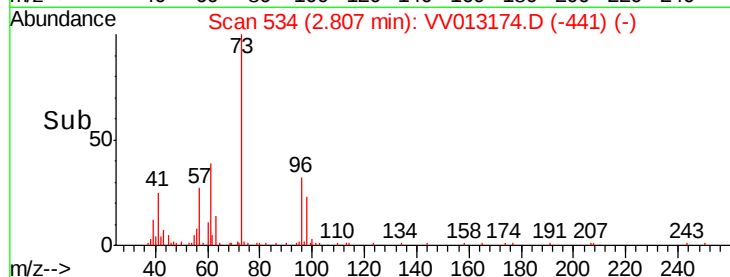
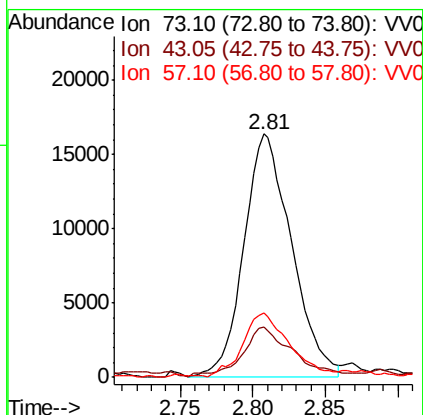
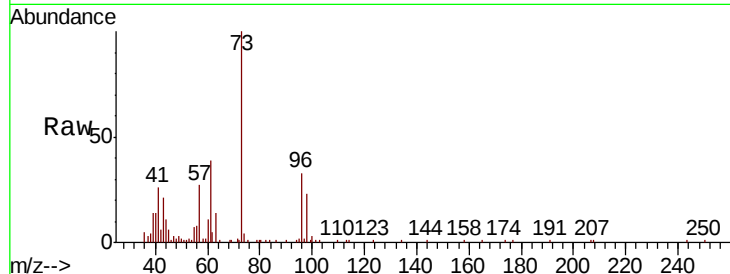




#17
Methvl tert-butvl Ether
Concen: 0.475 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV013174.D
Acq: 17 Oct 2019 16:11

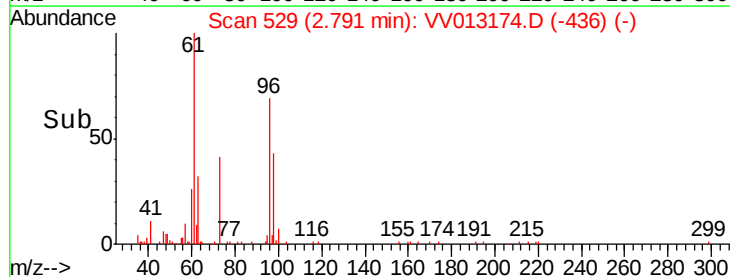
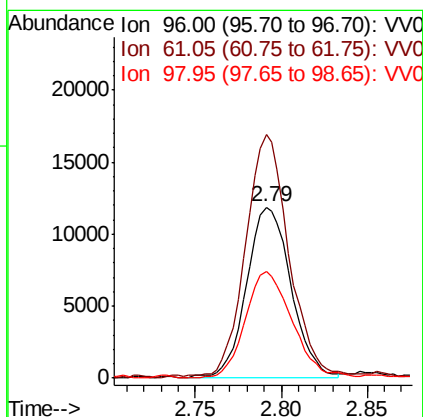
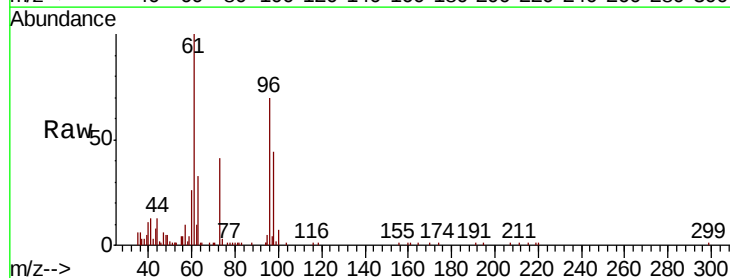
Instrument :
MSVOA_V
ClientSampleId :

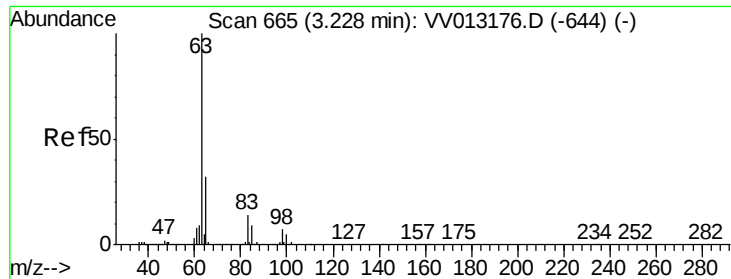
Tot Ion: 73 Resp: 37512
Ion Ratio Lower Upper
73 100
43 22.3 14.6 22.0#
57 26.2 17.8 26.8



#18
trans-1,2-Dichloroethene
Concen: 0.626 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV013174.D
Acq: 17 Oct 2019 16:11

Tgt Ion: 96 Resp: 21345
Ion Ratio Lower Upper
96 100
61 142.3 98.1 182.1
98 62.5 44.9 83.5

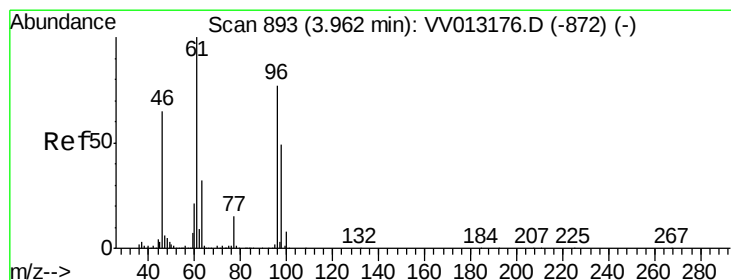
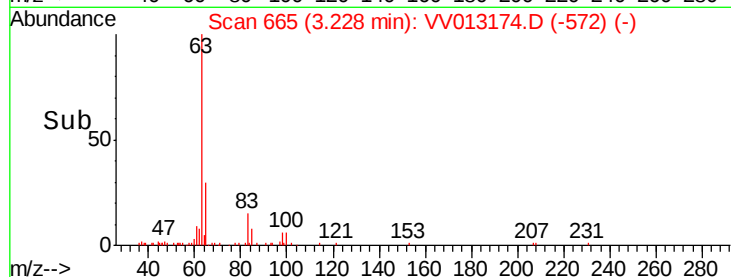
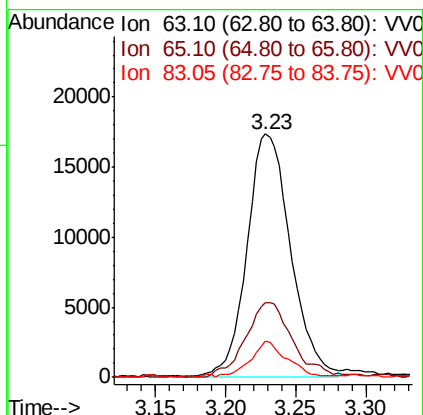
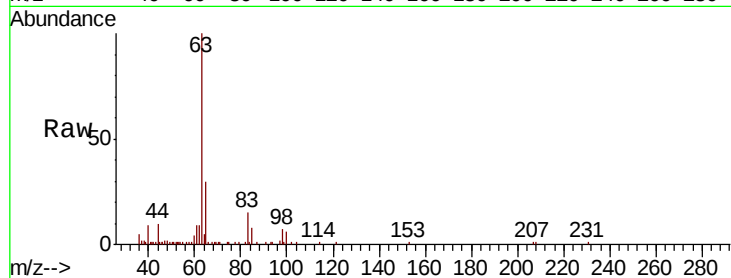




#19
 1,1-Dichloroethane
 Concen: 0.560 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV013174.D
 Acq: 17 Oct 2019 16:11

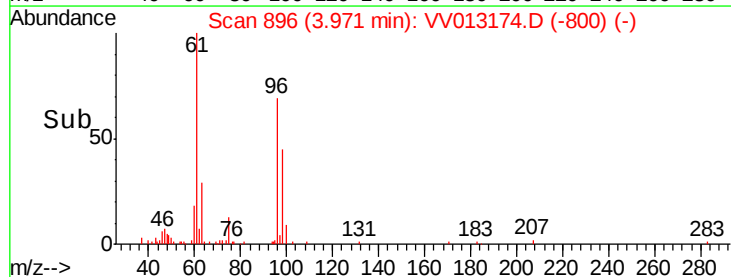
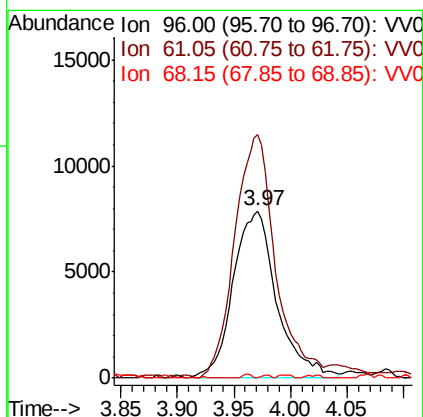
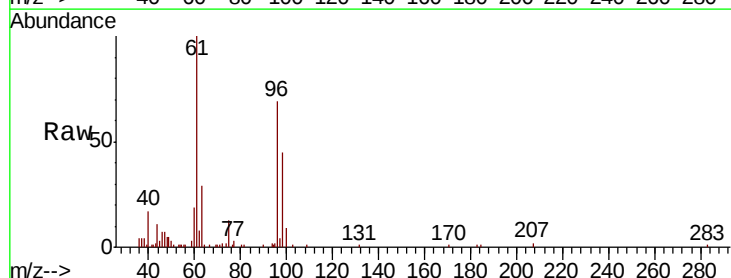
Instrument :
 MSVOA_V
 ClientSampleId :

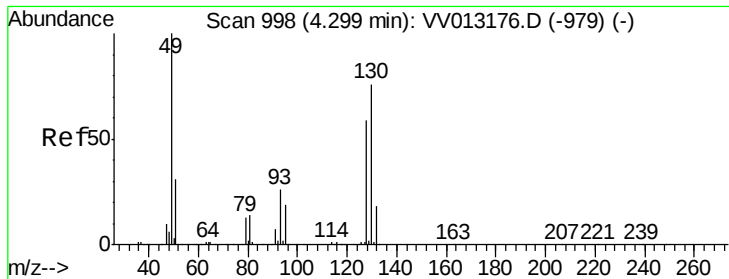
Tot Ion	Ratio	Lower	Upper
63	100		
65	30.5	22.5	41.7
83	14.7	9.5	17.7



#22
 cis-1,2-Dichloroethene
 Concen: 0.572 ug/L
 RT: 3.97 min Scan# 896
 Delta R.T. 0.01 min
 Lab File: VV013174.D
 Acq: 17 Oct 2019 16:11

Tgt Ion	Ratio	Lower	Upper
96	100		
61	145.5	90.6	168.2
68	0.0	0.1	0.1#





#23

Bromochloromethane

Concen: 0.595 ug/L

RT: 4.30 min Scan# 998

Delta R.T. -0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:128 Resp: 9686

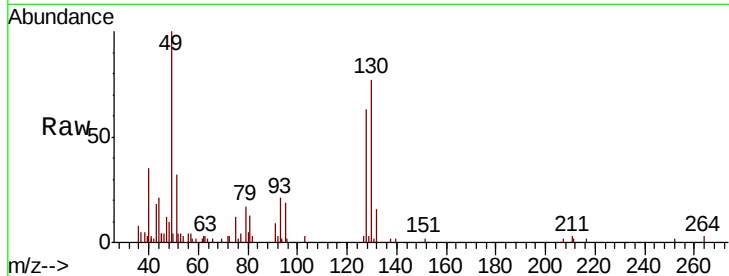
Ion Ratio Lower Upper

128 100

49 157.5 118.4 219.8

130 121.6 89.5 166.3

51 50.7 42.0 63.0

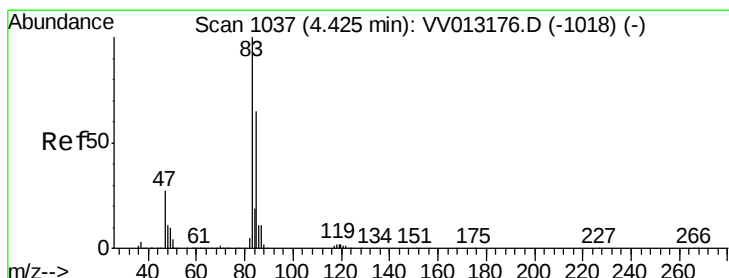
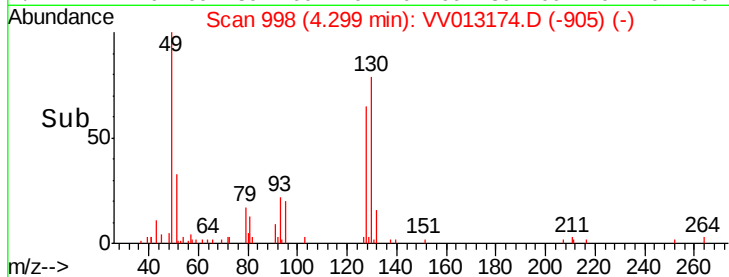
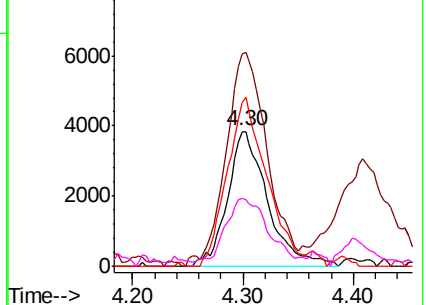


Abundance Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VV0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VV0



#25

Chloroform

Concen: 0.641 ug/L

RT: 4.43 min Scan# 1038

Delta R.T. 0.00 min

Lab File: VV013174.D

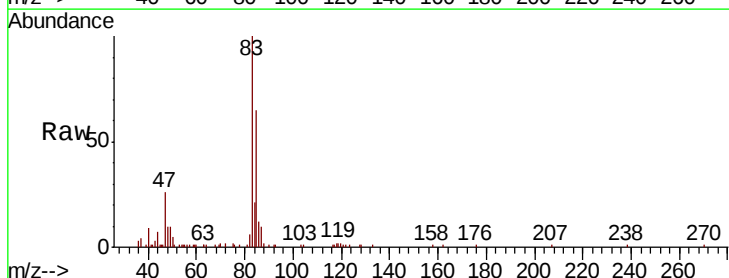
Acq: 17 Oct 2019 16:11

Tgt Ion: 83 Resp: 47544

Ion Ratio Lower Upper

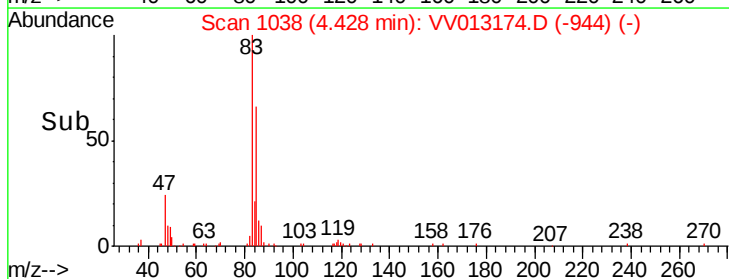
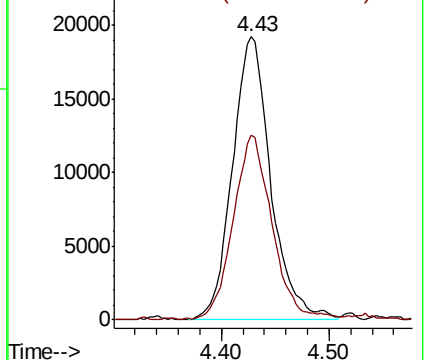
83 100

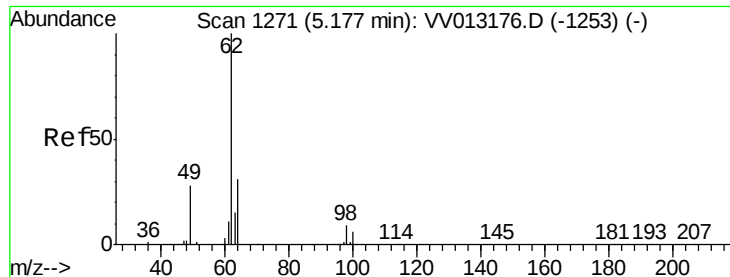
85 65.5 45.5 84.5



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0





#27

1,2-Dichloroethane

Concen: 0.572 ug/L

RT: 5.19 min Scan# 1274

Delta R.T. 0.01 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

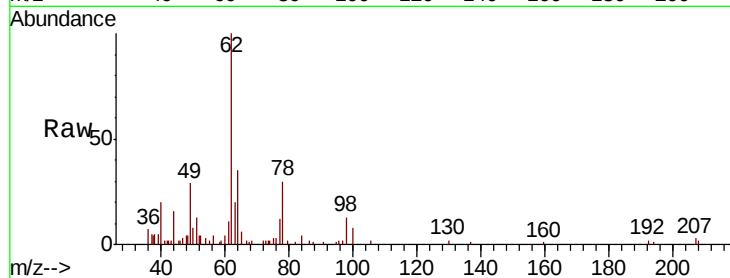
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 22768

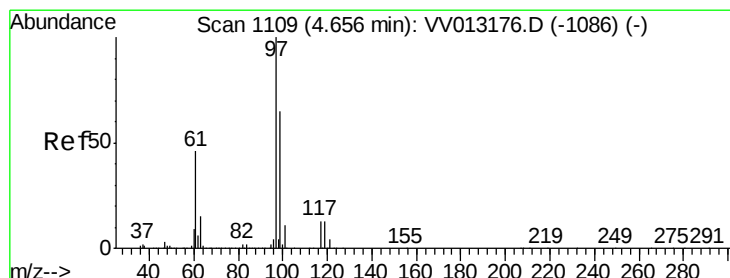
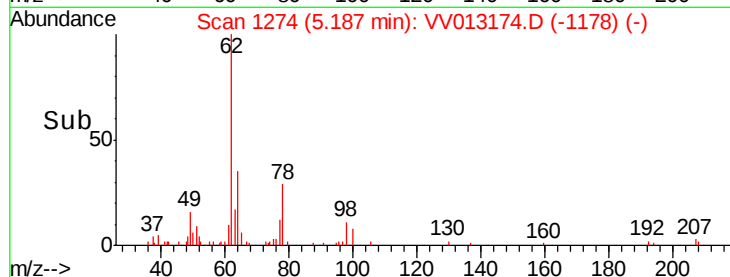
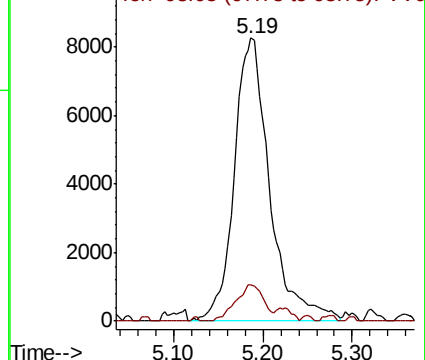
Ion Ratio Lower Upper

62 100

98 12.7 7.4 11.2#



Abundance Ion 62.00 (61.70 to 62.70): VV0
Ion 98.05 (97.75 to 98.75): VV0



#29

1,1,1-Trichloroethane

Concen: 0.546 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

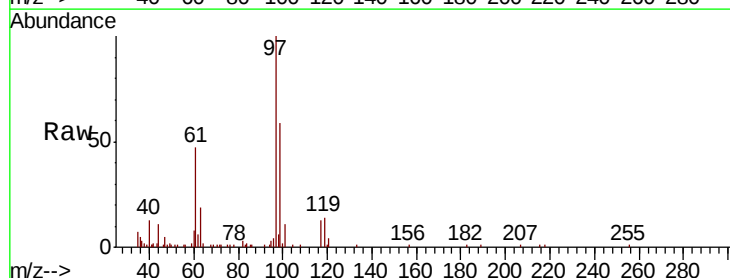
Tgt Ion: 97 Resp: 31981

Ion Ratio Lower Upper

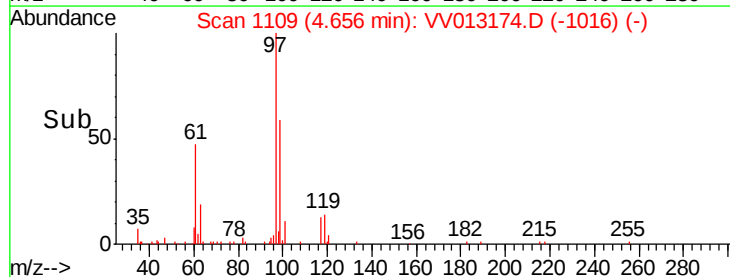
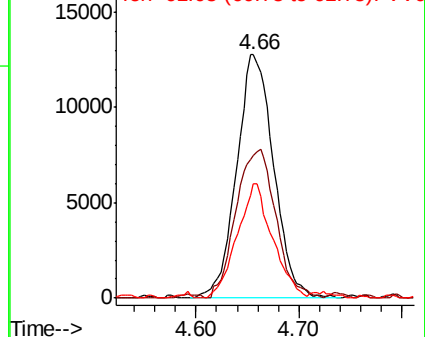
97 100

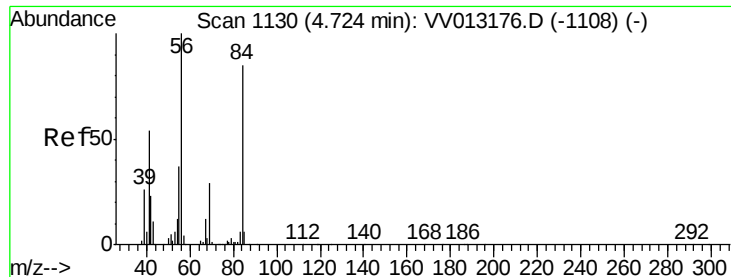
99 65.3 51.2 76.8

61 44.6 37.0 55.4



Abundance Ion 96.95 (96.65 to 97.65): VV0
Ion 99.05 (98.75 to 99.75): VV0
Ion 61.05 (60.75 to 61.75): VV0

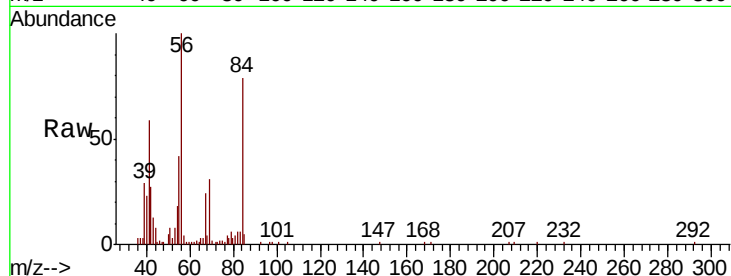




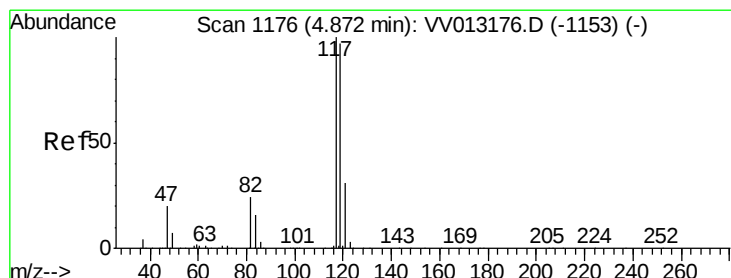
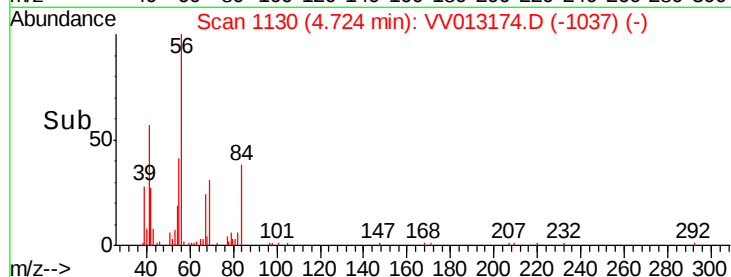
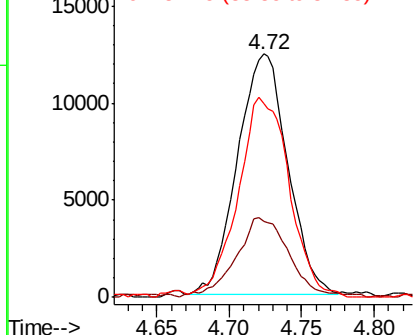
#30
Cyclohexane
Concen: 0.563 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VV013174.D
Acq: 17 Oct 2019 16:11

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 56 Resp: 29941
Ion Ratio Lower Upper
56 100
69 35.3 23.0 34.4#
84 84.8 69.0 103.4

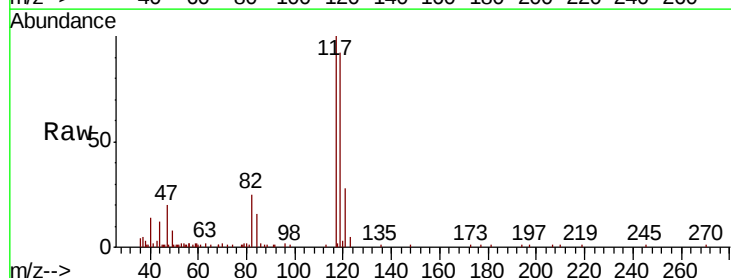


Abundance Ion 56.10 (55.80 to 56.80): VV0
Ion 69.15 (68.85 to 69.85): VV0
Ion 84.15 (83.85 to 84.85): VV0

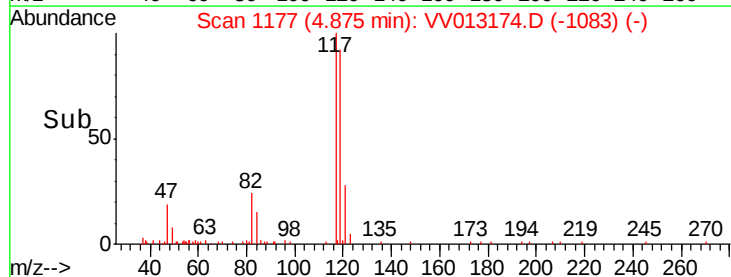
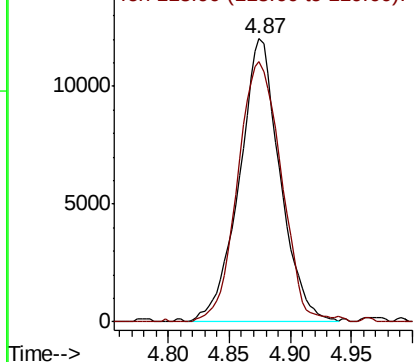


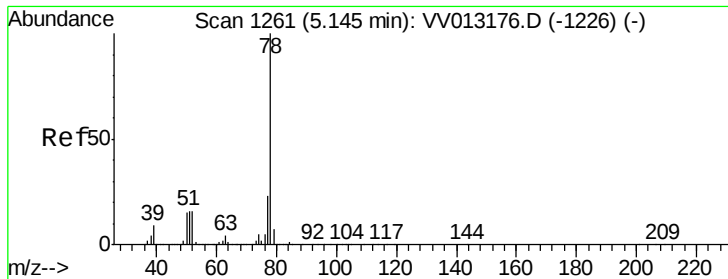
#31
Carbon tetrachloride
Concen: 0.549 ug/L
RT: 4.87 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VV013174.D
Acq: 17 Oct 2019 16:11

Tgt Ion: 117 Resp: 27720
Ion Ratio Lower Upper
117 100
119 98.8 77.9 116.9



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V





#33

Benzene

Concen: 0.531 ug/L

RT: 5.15 min Scan# 1263

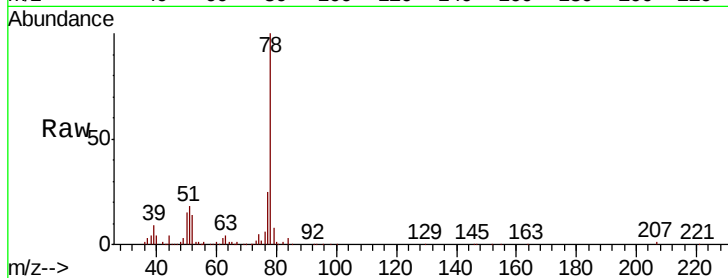
Delta R.T. 0.01 min

Lab File: VV013174.D

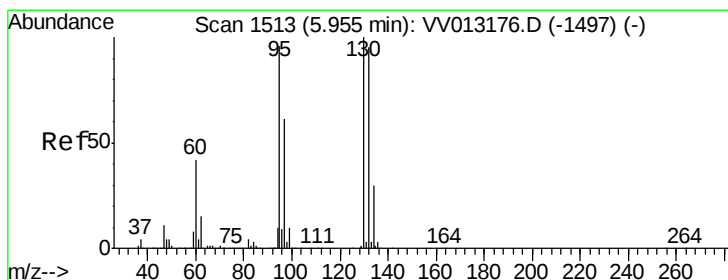
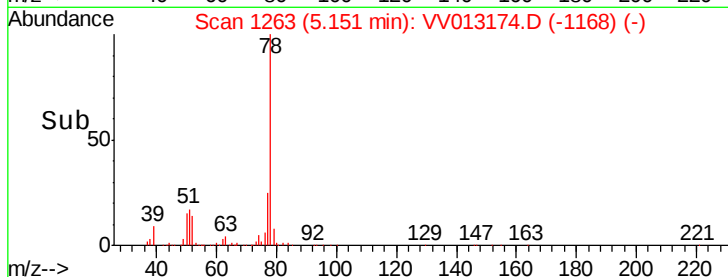
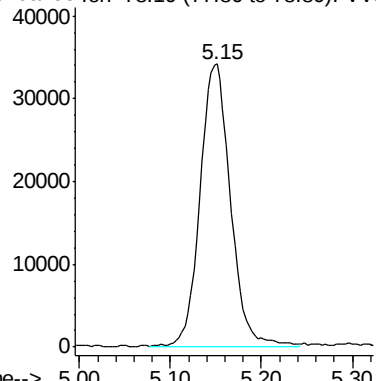
Acq: 17 Oct 2019 16:11

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 78 Resp: 79093



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 0.549 ug/L

RT: 5.96 min Scan# 1515

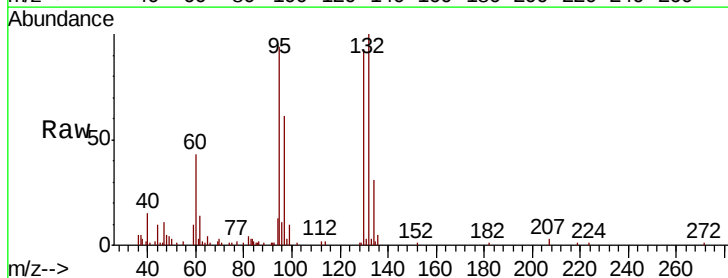
Delta R.T. 0.01 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Tgt Ion: 95 Resp: 21026

Ion	Ratio	Lower	Upper
95	100		
97	65.1	44.7	82.9
132	106.3	68.9	127.9
130	98.5	72.7	134.9

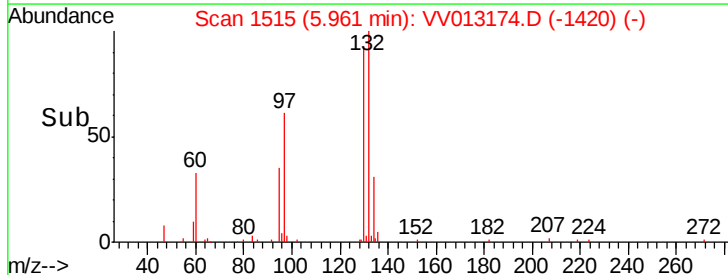
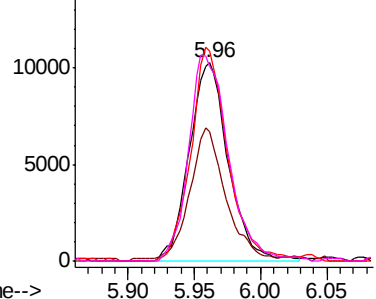


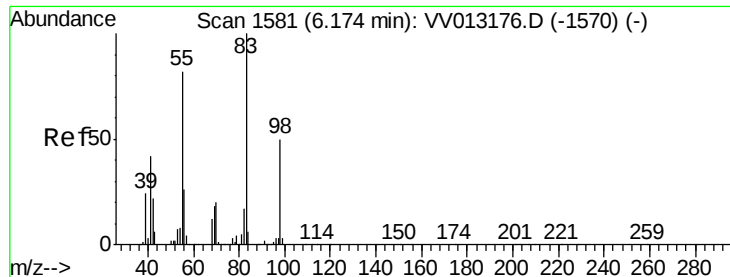
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

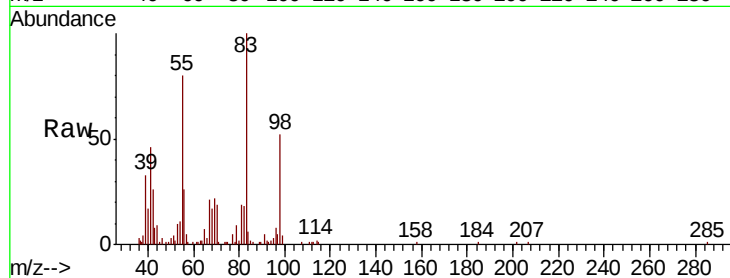




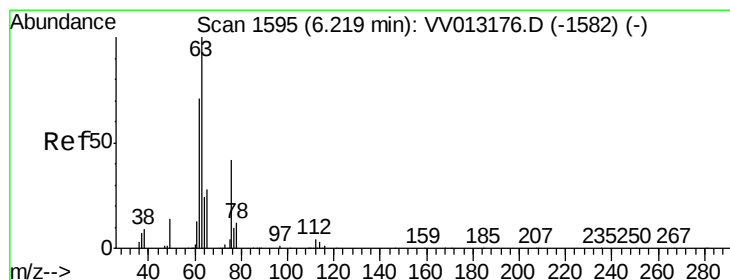
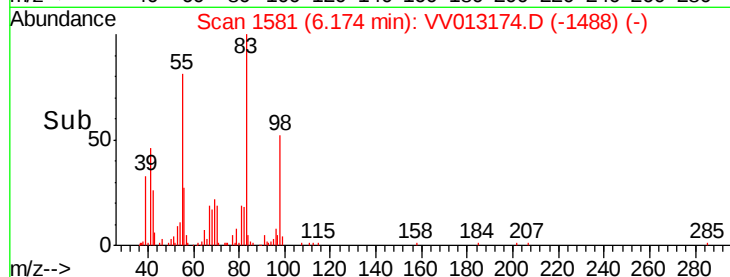
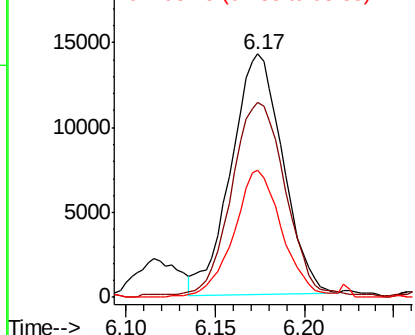
#35
Methvlcvclohexane
Concen: 0.522 ug/L
RT: 6.17 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VV013174.D
Acq: 17 Oct 2019 16:11

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.8	64.0	96.0
98	49.7	38.6	57.8

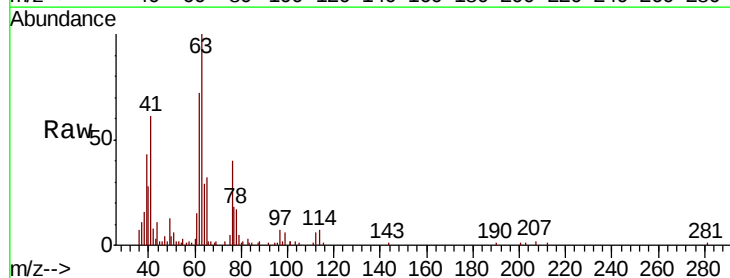


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

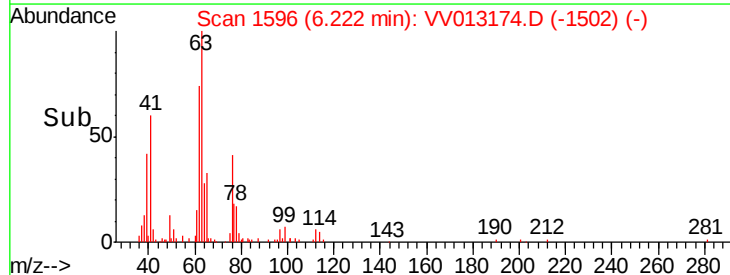
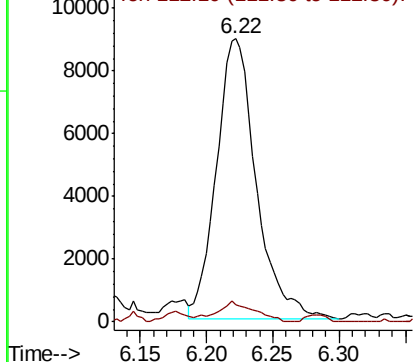


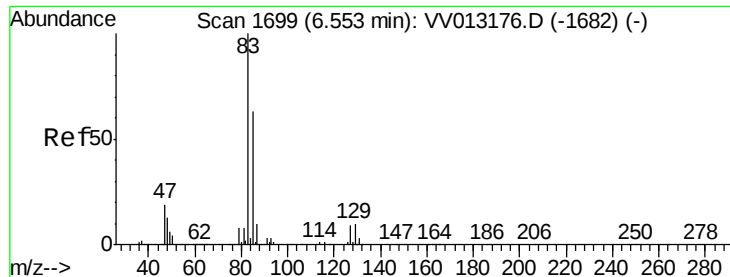
#37
1,2-Dichloropropane
Concen: 0.474 ug/L
RT: 6.22 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VV013174.D
Acq: 17 Oct 2019 16:11

Tgt Ion	Ratio	Lower	Upper
63	100		
112	6.9	3.8	5.8#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V





#38

Bromodichloromethane

Concen: 0.516 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Instrument :

MSVOA_V

ClientSampleId :

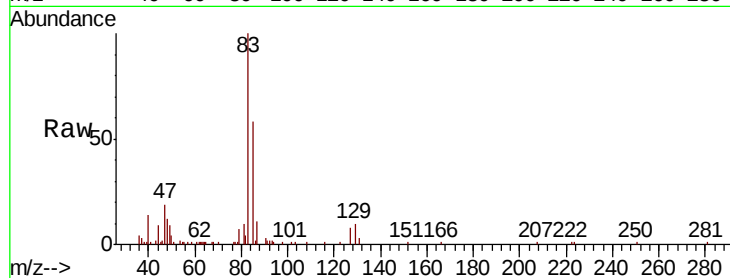
Tot Ion: 83 Resp: 26215

Ion Ratio Lower Upper

83 100

85 58.4 44.0 81.6

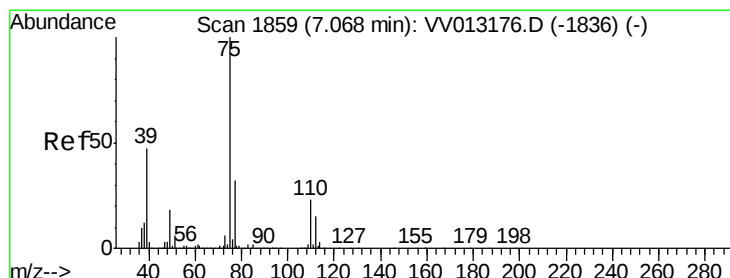
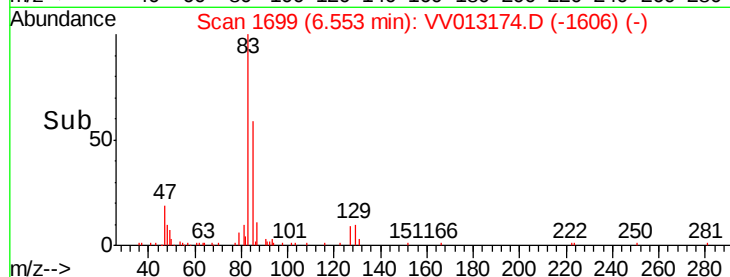
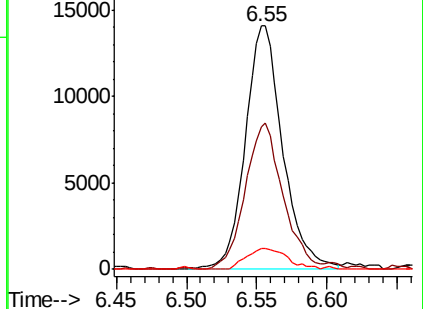
127 8.4 7.0 10.6



Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 126.90 (126.60 to 127.60): VV0



#39

cis-1,3-Dichloropropene

Concen: 0.453 ug/L

RT: 7.07 min Scan# 1861

Delta R.T. 0.01 min

Lab File: VV013174.D

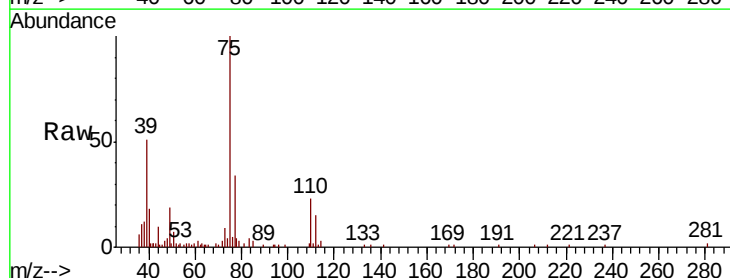
Acq: 17 Oct 2019 16:11

Tgt Ion: 75 Resp: 23901

Ion Ratio Lower Upper

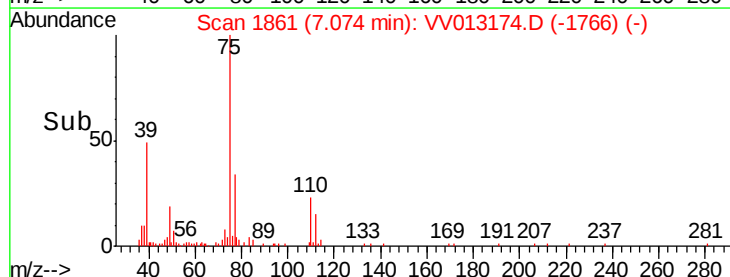
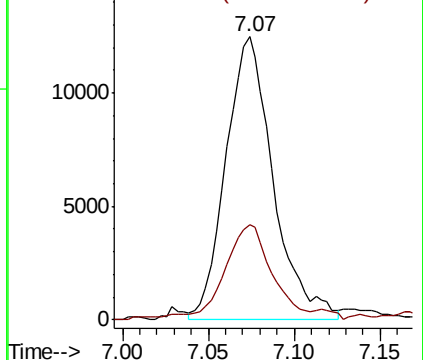
75 100

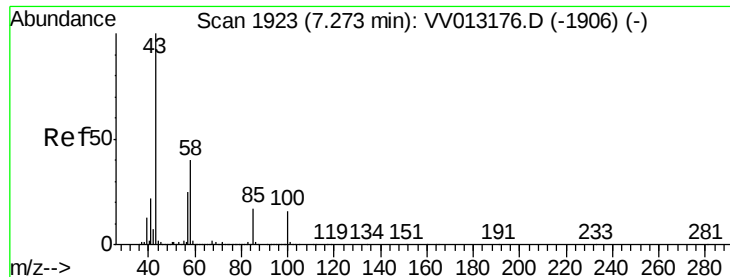
77 33.8 22.6 42.0



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

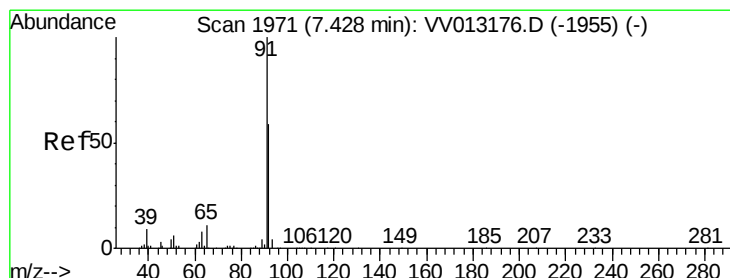
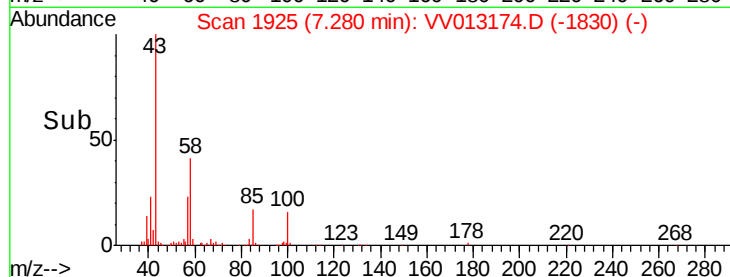
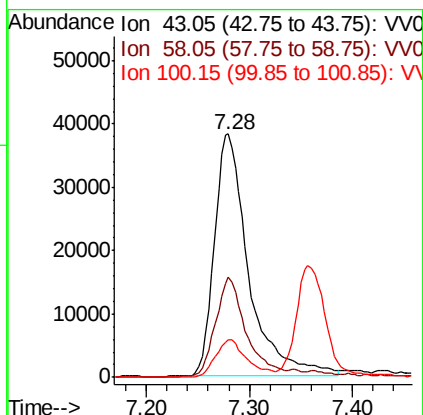
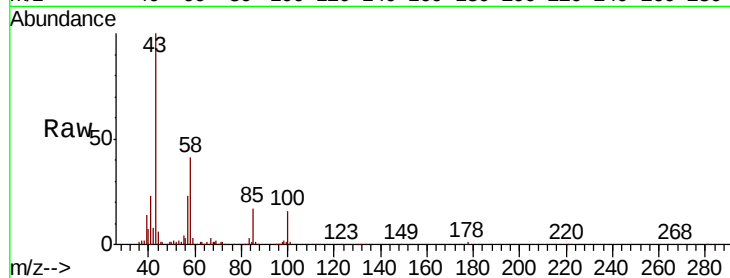




#40
4-Methyl-2-pentanone
Concen: 3.673 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. 0.01 min
Lab File: VV013174.D
Acq: 17 Oct 2019 16:11

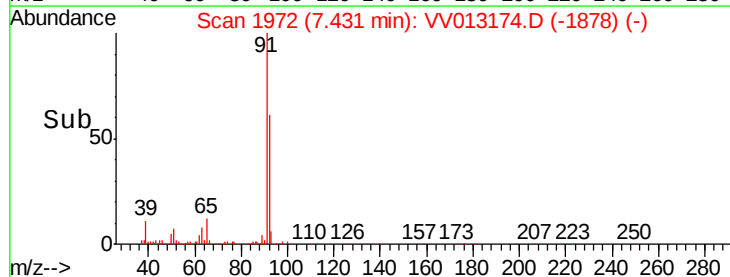
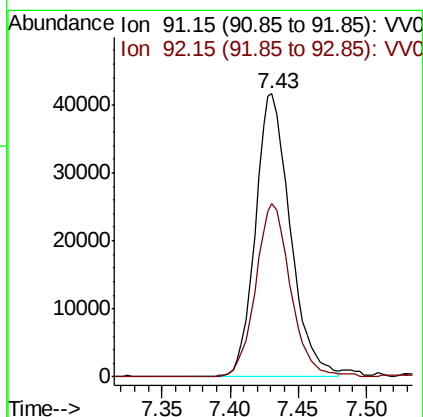
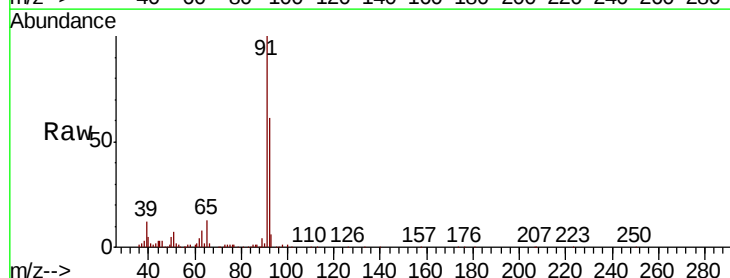
Instrument :
MSVOA_V
ClientSampled :

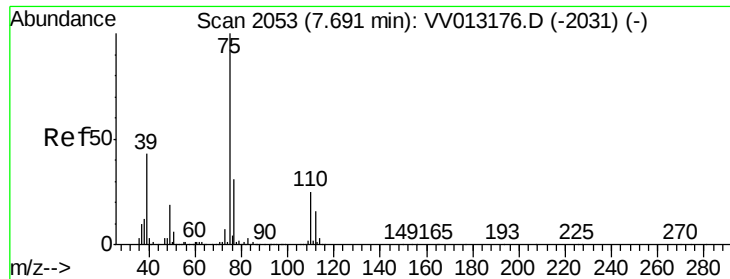
Tot Ion: 43 Resp: 88530
Ion Ratio Lower Upper
43 100
58 36.1 32.4 48.6
100 14.6 11.8 17.8



#42
Toluene
Concen: 0.474 ug/L
RT: 7.43 min Scan# 1972
Delta R.T. 0.00 min
Lab File: VV013174.D
Acq: 17 Oct 2019 16:11

Tgt Ion: 91 Resp: 73865
Ion Ratio Lower Upper
91 100
92 61.3 41.2 76.4





#44

trans-1,3-Dichloropropene

Concen: 0.449 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.01 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Instrument :

MSVOA_V

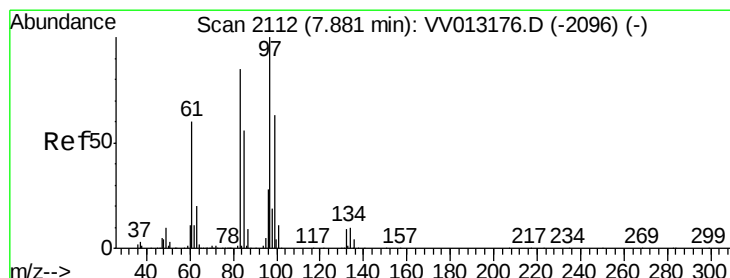
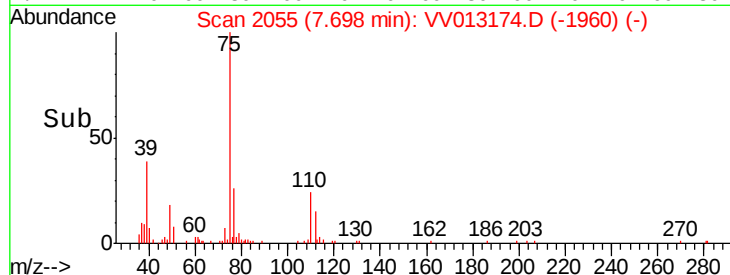
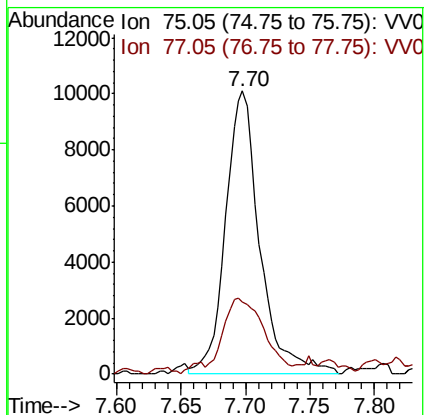
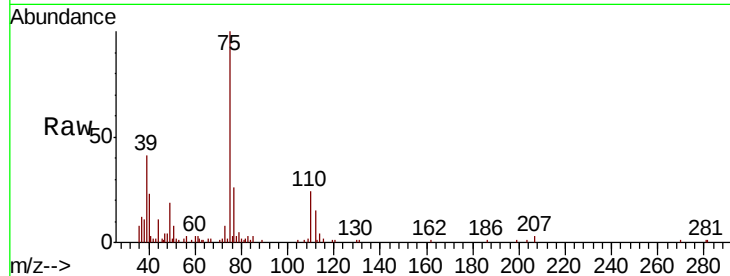
ClientSampleId :

Tot Ion: 75 Resp: 18648

Ion Ratio Lower Upper

75 100

77 25.5 21.8 40.4



#45

1,1,2-Trichloroethane

Concen: 0.492 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Tgt Ion: 97 Resp: 14127

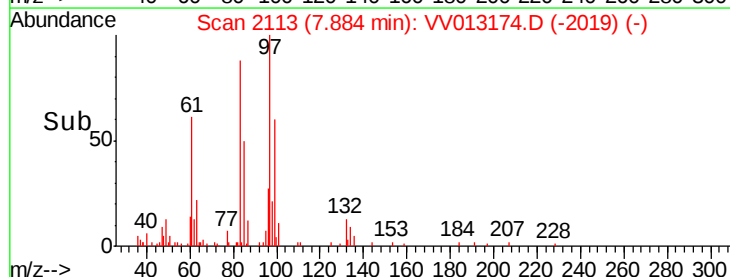
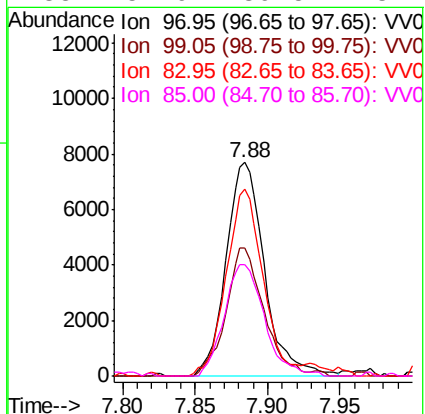
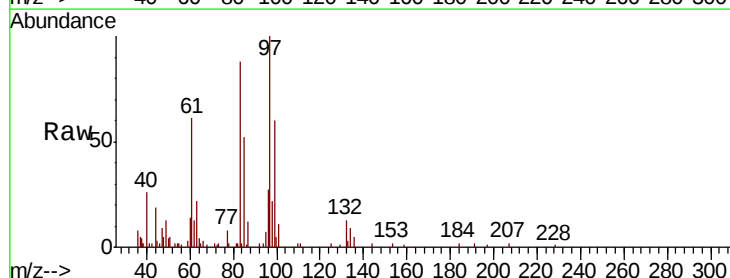
Ion Ratio Lower Upper

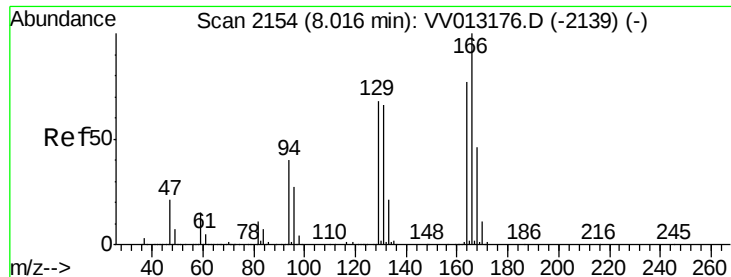
97 100

99 60.1 43.8 81.4

83 87.8 59.5 110.5

85 51.9 39.5 73.4





#47

Tetrachloroethene

Concen: 0.613 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 19471

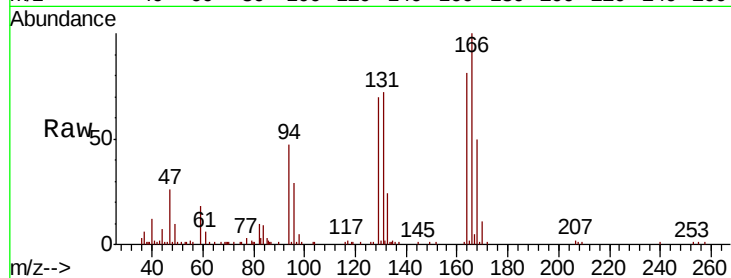
Ion Ratio Lower Upper

164 100

129 86.6 62.2 115.4

131 88.8 59.9 111.3

166 123.1 91.1 169.1

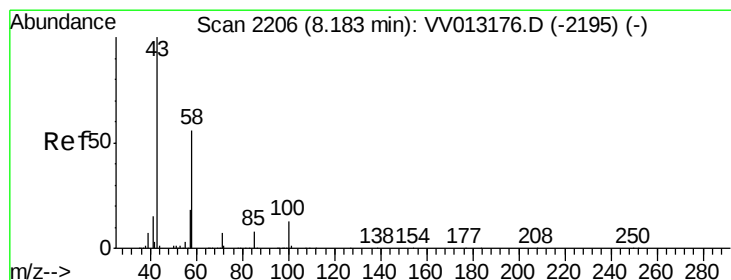
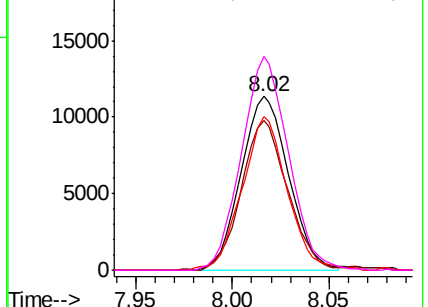
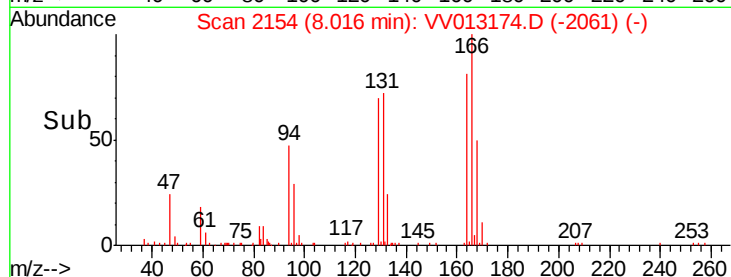


Abundance Ion 163.90 (163.60 to 164.60): V

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



#48

2-Hexanone

Concen: 3.322 ug/L

RT: 8.19 min Scan# 2208

Delta R.T. 0.01 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Tgt Ion: 43 Resp: 57950

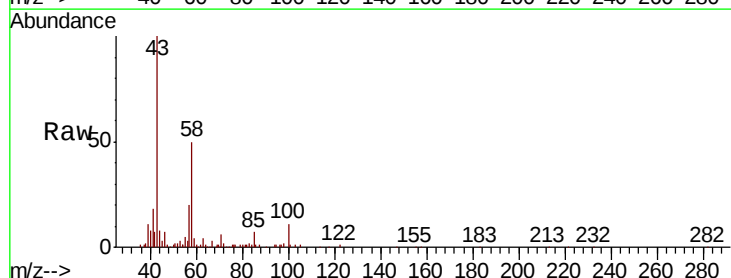
Ion Ratio Lower Upper

43 100

58 50.3 44.2 66.2

57 18.4 14.5 21.7

100 11.3 9.5 14.3

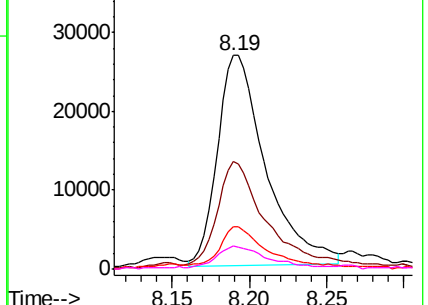
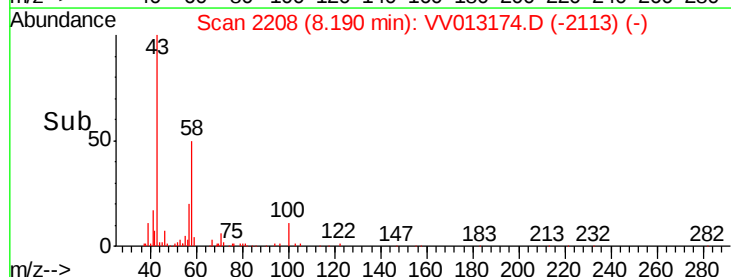


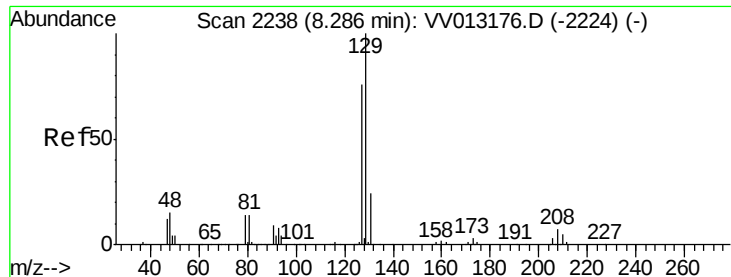
Abundance Ion 43.05 (42.75 to 43.75): VV0

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





#49

Dibromochloromethane

Concen: 0.472 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Instrument :

MSVOA_V

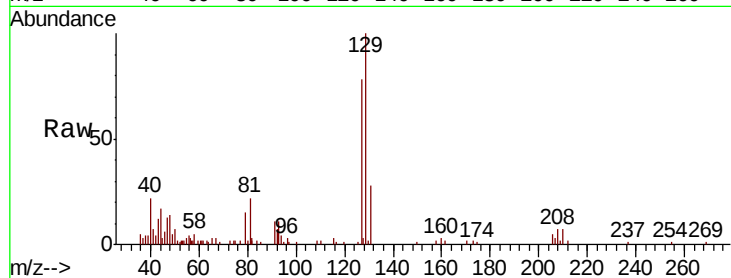
ClientSampleId :

Tot Ion:129 Resp: 15759

Ion Ratio Lower Upper

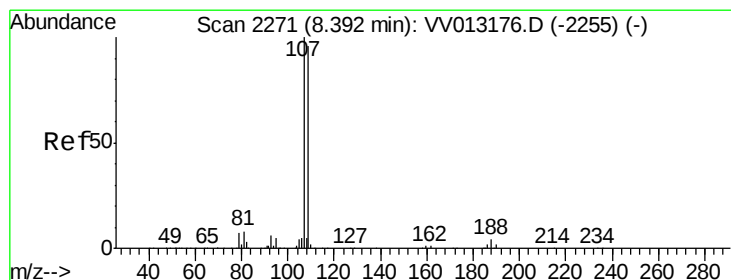
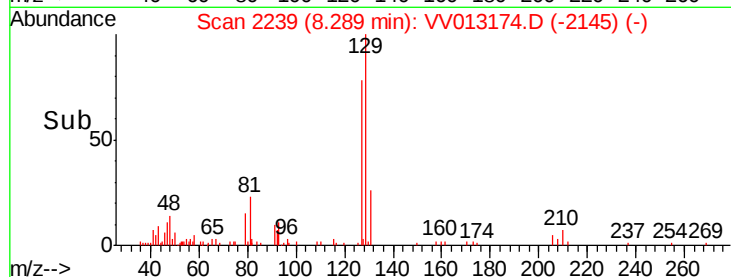
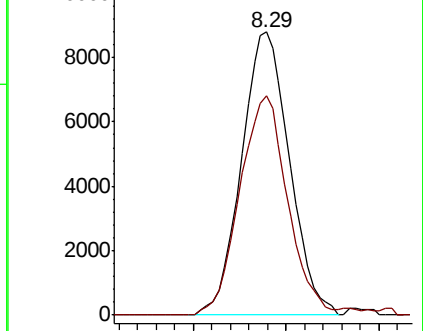
129 100

127 77.6 53.2 98.8



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#50

1,2-Dibromoethane

Concen: 0.512 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

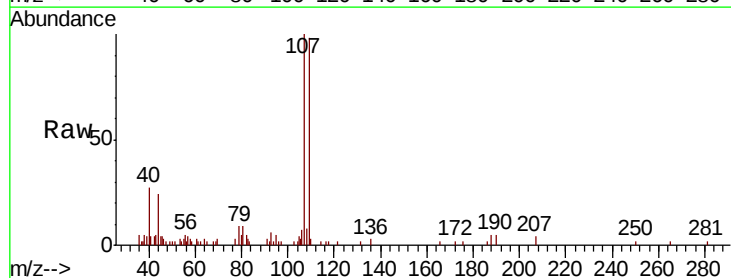
Tgt Ion:107 Resp: 12546

Ion Ratio Lower Upper

107 100

109 97.9 67.3 124.9

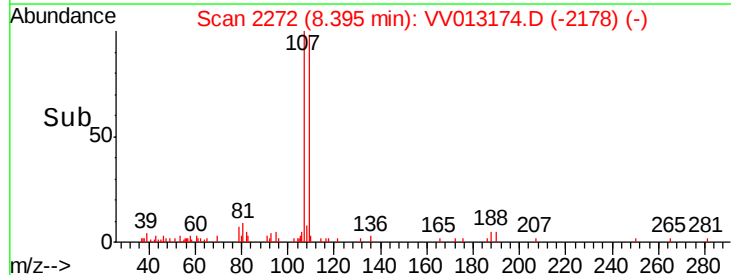
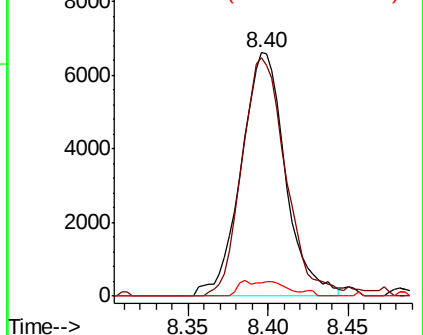
188 5.3 3.3 4.9#

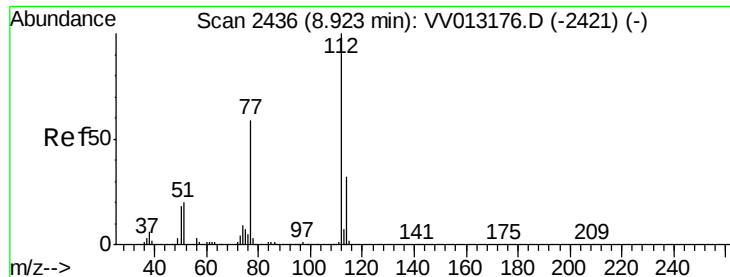


Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V





#51

Chlorobenzene

Concen: 0.506 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Instrument :
MSVOA_V
ClientSampleId :

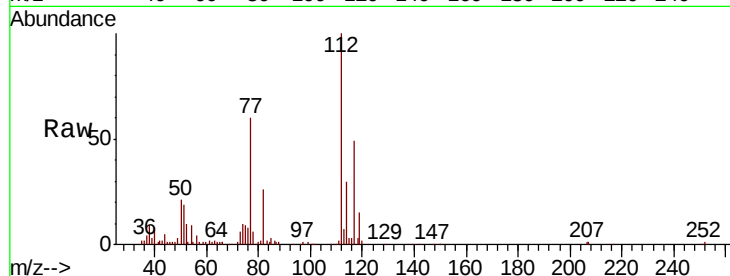
Tot Ion:112 Resp: 52680

Ion Ratio Lower Upper

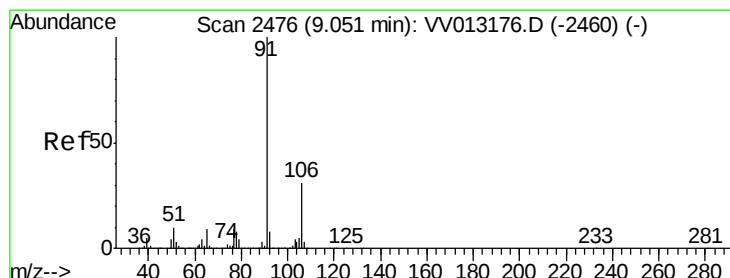
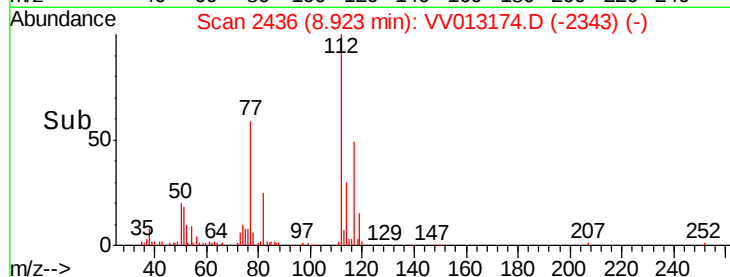
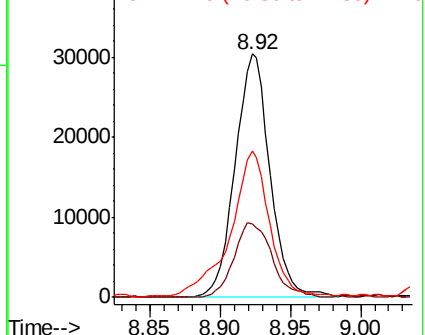
112 100

114 30.3 22.6 42.0

77 60.1 47.5 71.3



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): V



#52

Ethylbenzene

Concen: 0.466 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV013174.D

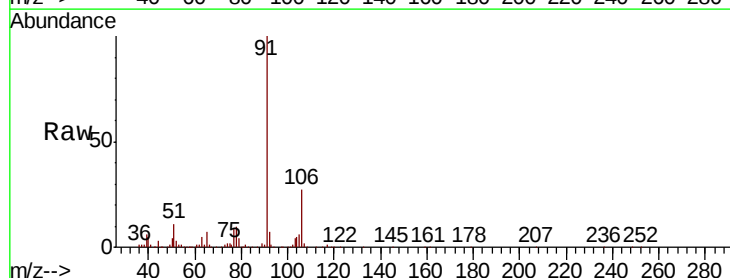
Acq: 17 Oct 2019 16:11

Tgt Ion: 91 Resp: 77848

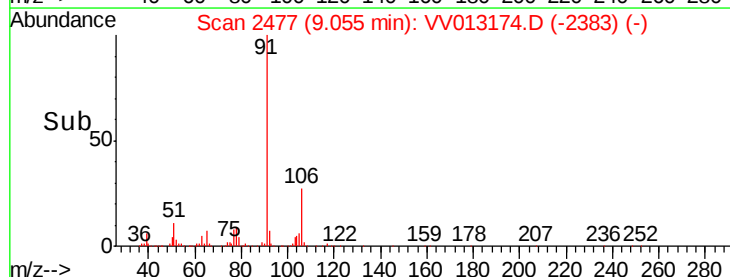
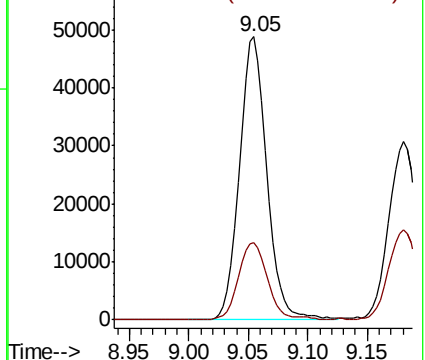
Ion Ratio Lower Upper

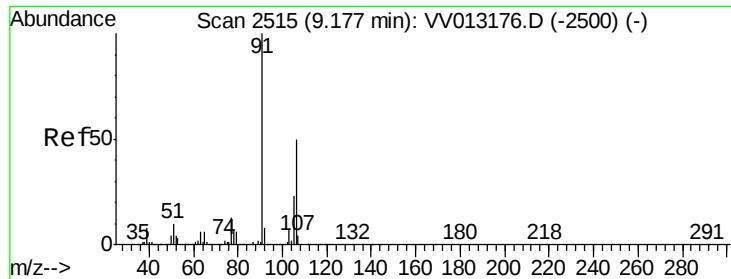
91 100

106 27.2 22.0 40.8



Abundance Ion 91.15 (90.85 to 91.85): VV0
Ion 106.15 (105.85 to 106.85): V





#53

m,p-xylene

Concen: 0.424 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Instrument :

MSVOA_V

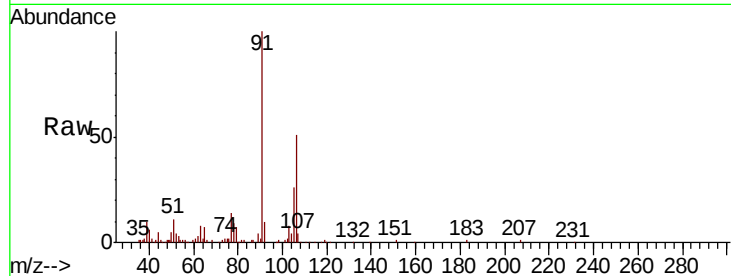
ClientSampleId :

Tot Ion:106 Resp: 26478

Ion Ratio Lower Upper

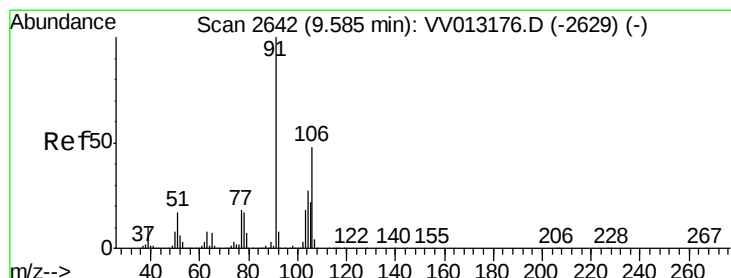
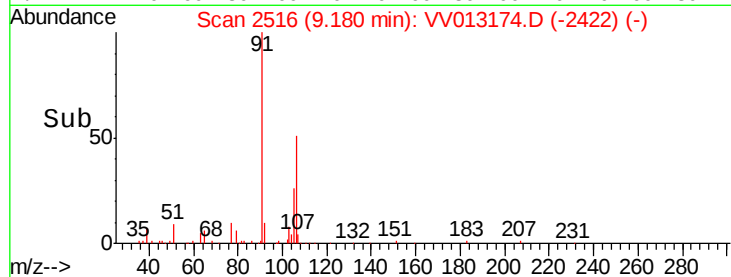
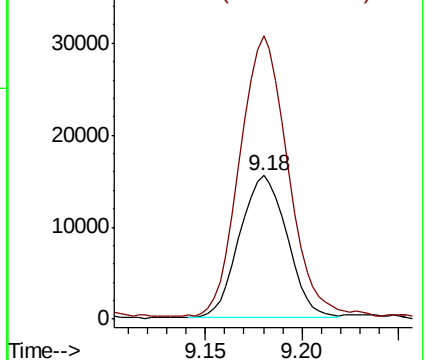
106 100

91 197.3 141.3 262.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#54

o-xylene

Concen: 0.420 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV013174.D

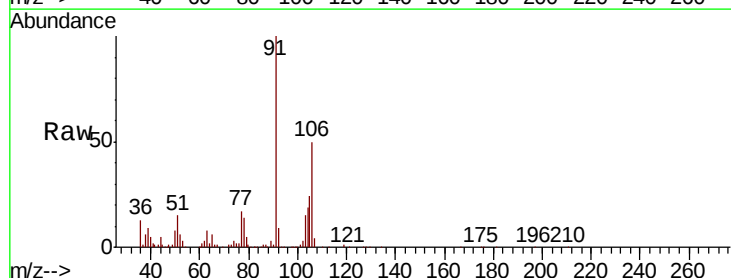
Acq: 17 Oct 2019 16:11

Tgt Ion:106 Resp: 25556

Ion Ratio Lower Upper

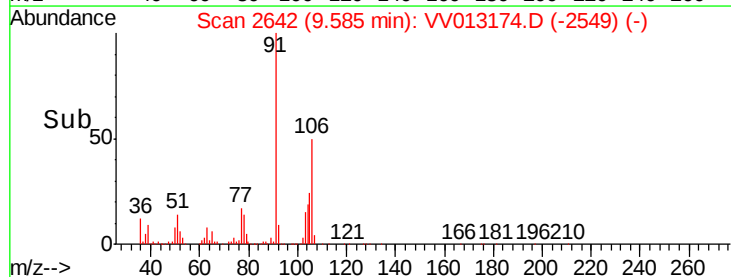
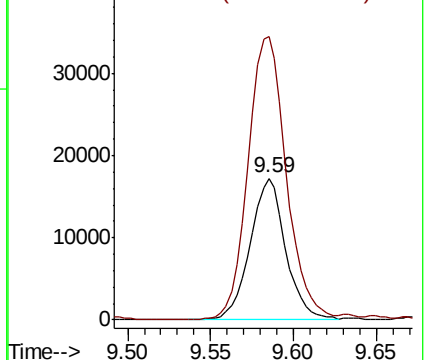
106 100

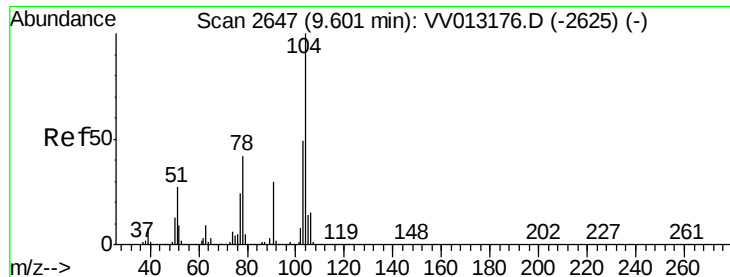
91 200.3 145.3 269.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#55

Stvrene

Concen: 0.381 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

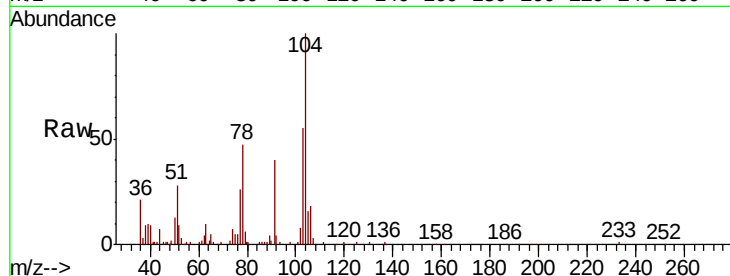
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:104 Resp: 39324

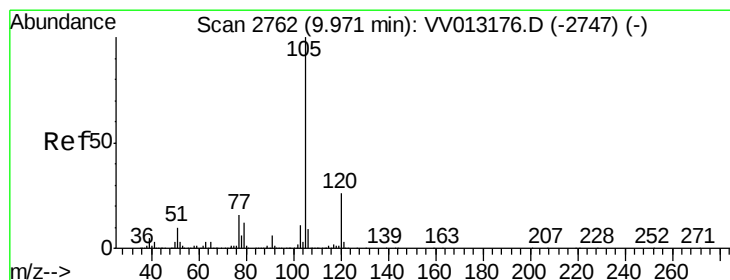
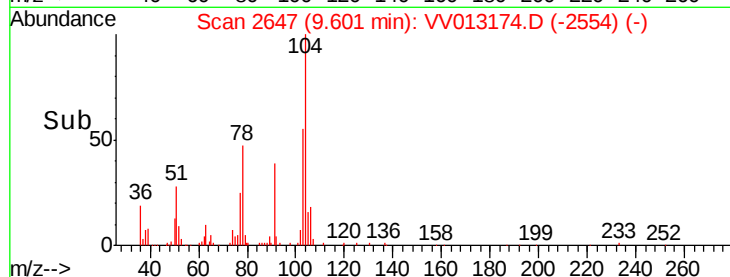
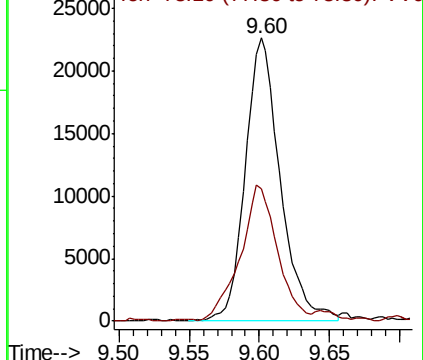
Ion Ratio Lower Upper

104 100

78 46.9 29.5 54.9



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0



#56

Isopropylbenzene

Concen: 0.424 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

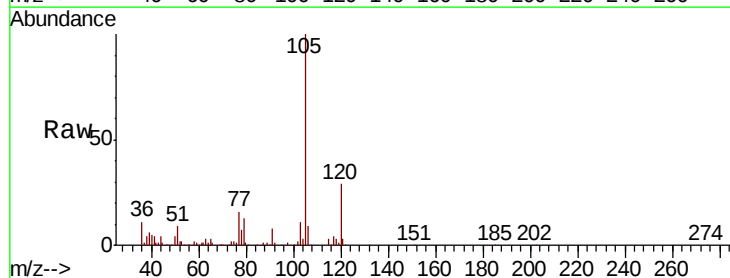
Tgt Ion:105 Resp: 68970

Ion Ratio Lower Upper

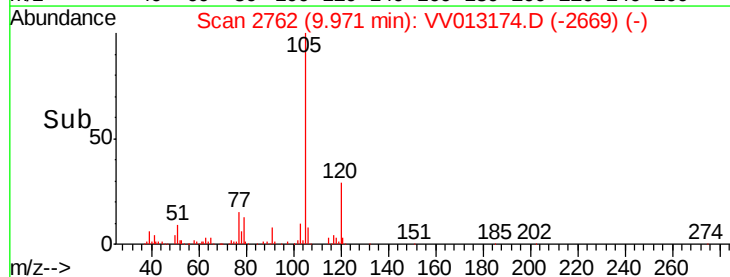
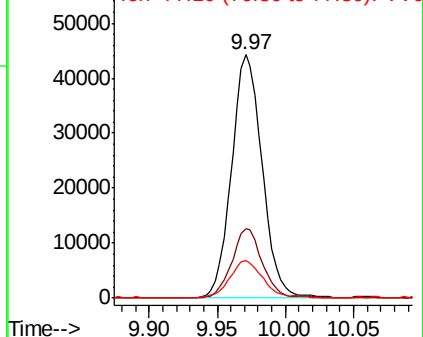
105 100

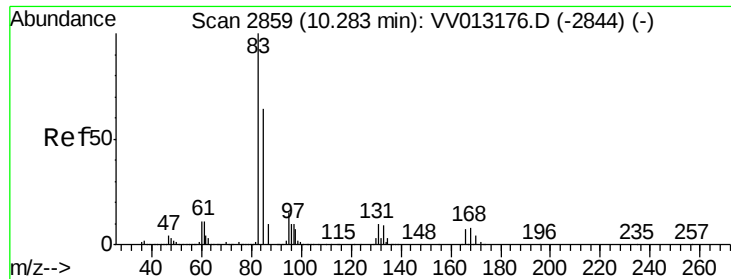
120 28.3 21.0 31.6

77 16.9 12.4 18.6



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): VV0





#58

1,1,2,2-Tetrachloroethane

Concen: 0.459 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Instrument :

MSVOA_V

ClientSampled :

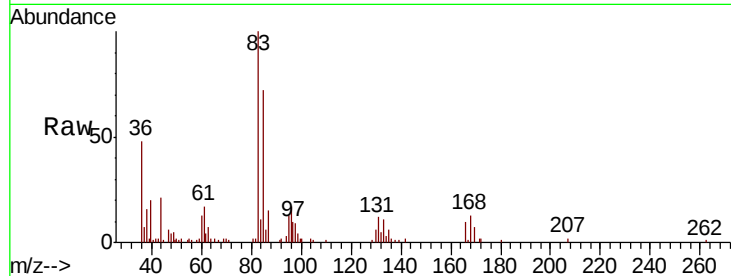
Tot Ion: 83 Resp: 16318

Ion Ratio Lower Upper

83 100

85 72.4 44.6 82.8

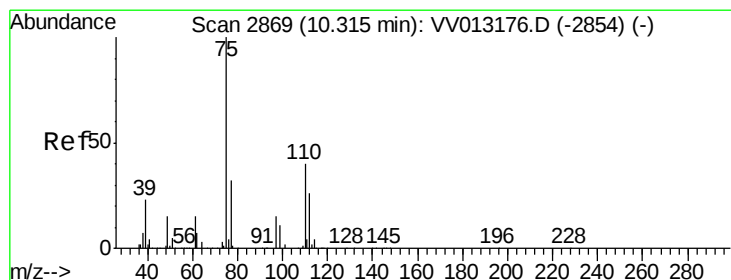
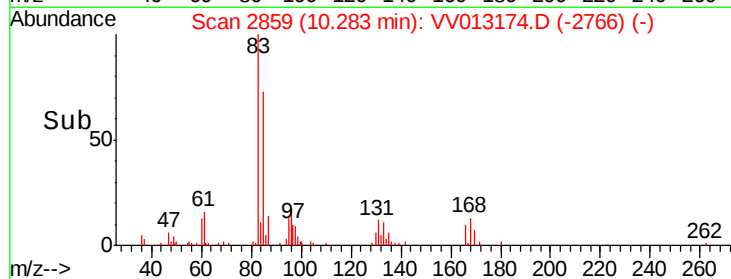
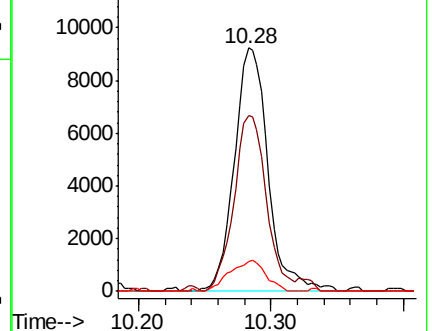
131 12.0 8.3 12.5



Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): VV0



#59

1,2,3-Trichloropropane

Concen: 0.482 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV013174.D

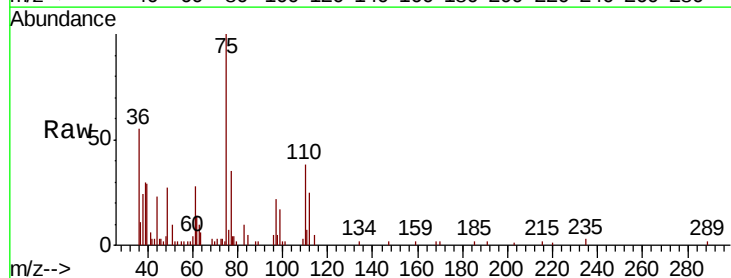
Acq: 17 Oct 2019 16:11

Tgt Ion: 75 Resp: 11949

Ion Ratio Lower Upper

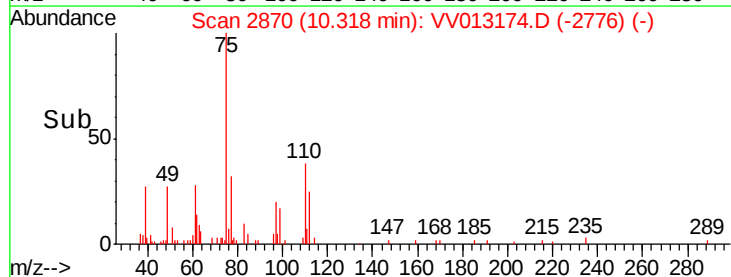
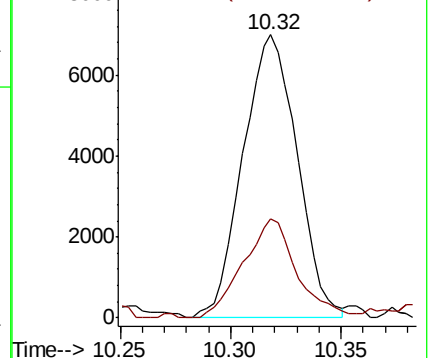
75 100

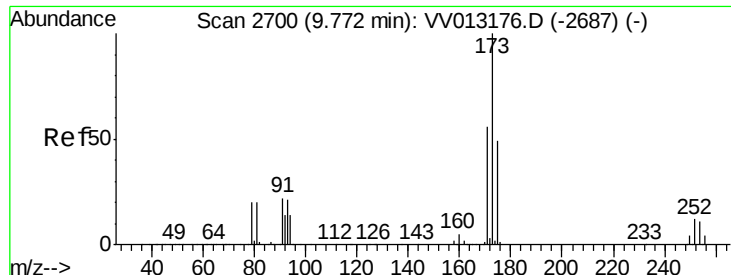
77 34.6 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#61

Bromoform

Concen: 0.499 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Instrument :
MSVOA_V
ClientSampleId :

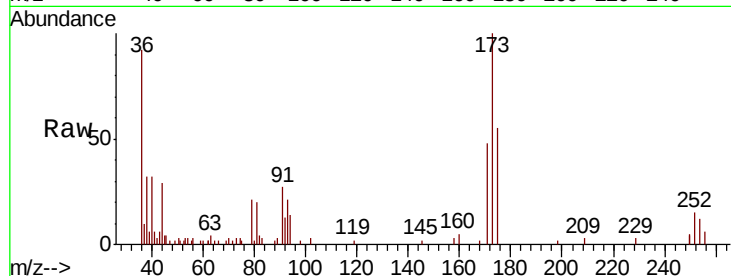
Tot Ion:173 Resp: 9203

Ion Ratio Lower Upper

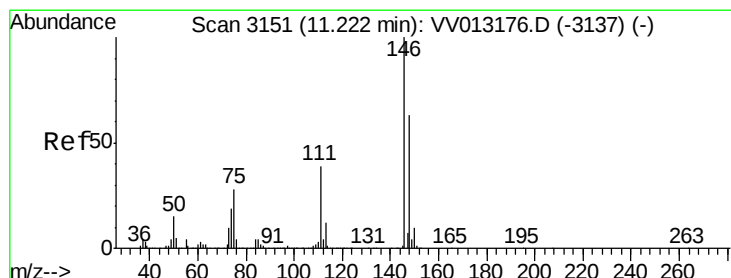
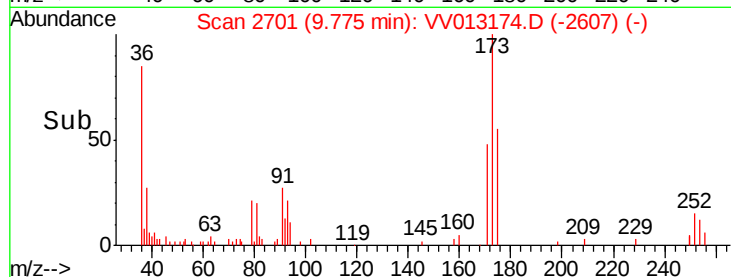
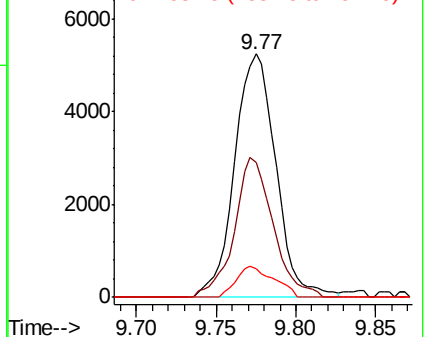
173 100

175 53.7 39.1 58.7

254 11.6 9.4 14.2



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



#62

1,3-Dichlorobenzene

Concen: 0.452 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

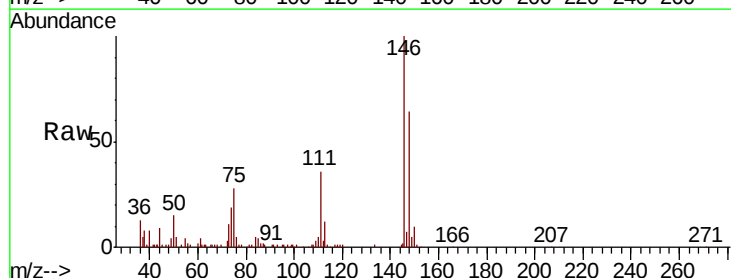
Tgt Ion:146 Resp: 36911

Ion Ratio Lower Upper

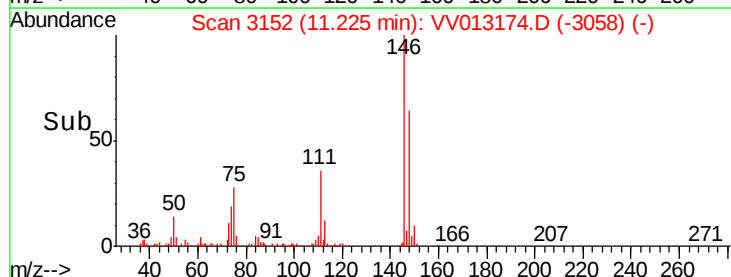
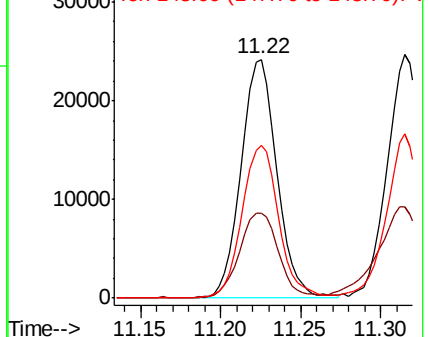
146 100

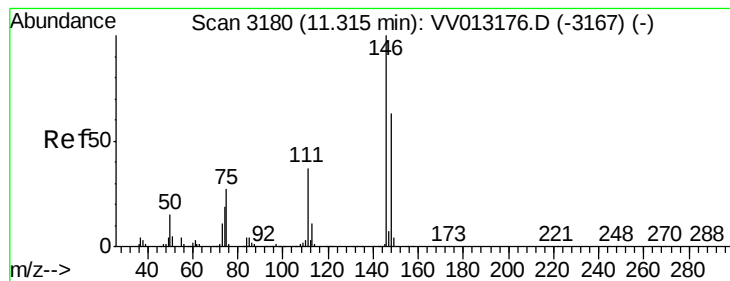
111 35.7 27.1 50.3

148 64.0 44.4 82.5



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





#63

1,4-Dichlorobenzene

Concen: 0.474 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. -0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

Instrument :

MSVOA_V

ClientSampleId :

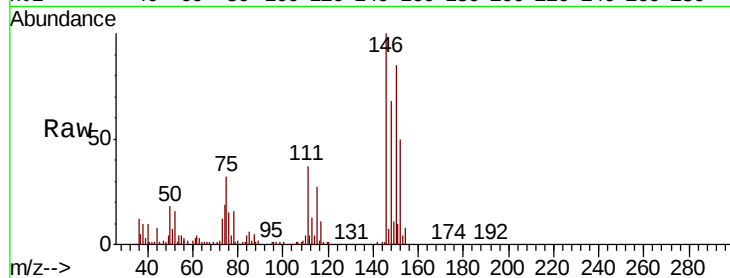
Tot Ion:146 Resp: 39305

Ion Ratio Lower Upper

146 100

111 37.3 25.7 47.7

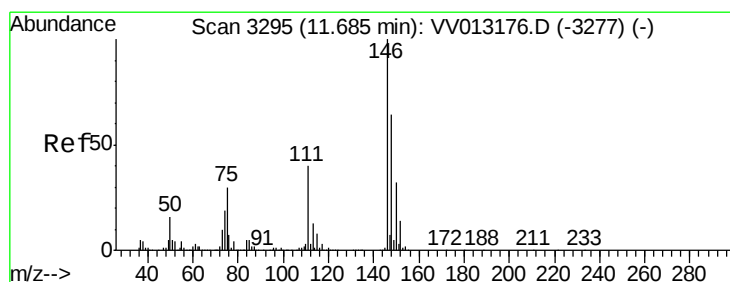
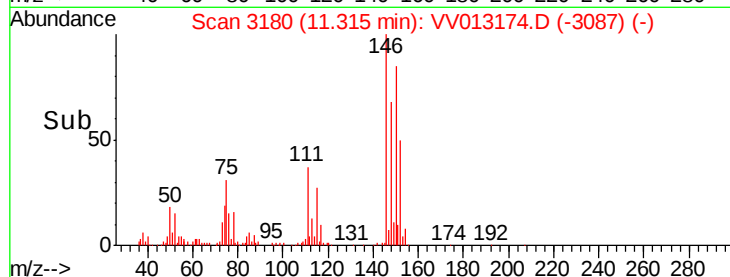
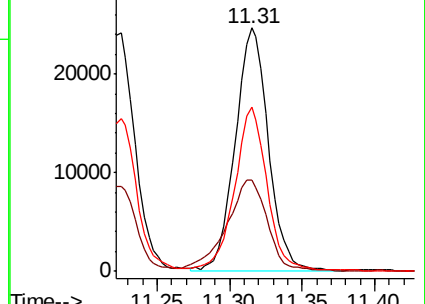
148 67.6 44.4 82.5



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



#65

1,2-Dichlorobenzene

Concen: 0.465 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV013174.D

Acq: 17 Oct 2019 16:11

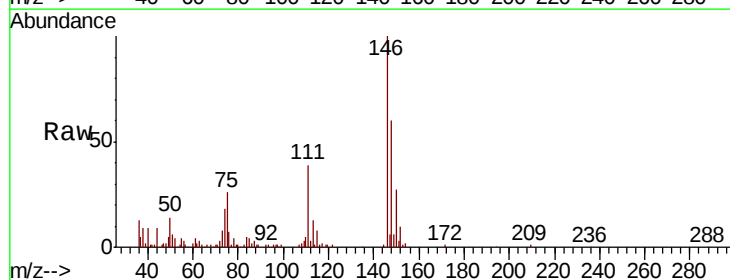
Tgt Ion:146 Resp: 36809

Ion Ratio Lower Upper

146 100

111 38.6 31.9 47.9

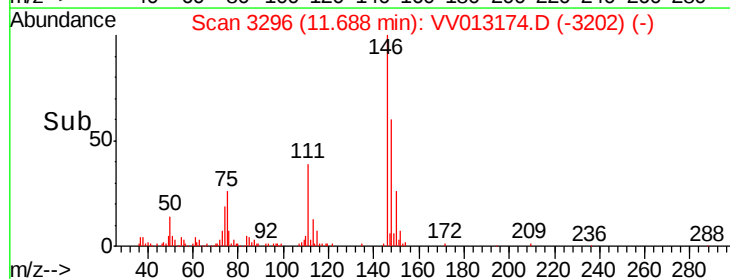
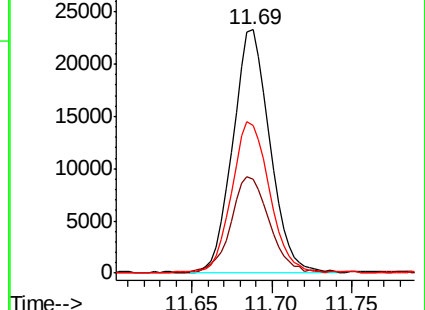
148 60.4 51.4 77.2

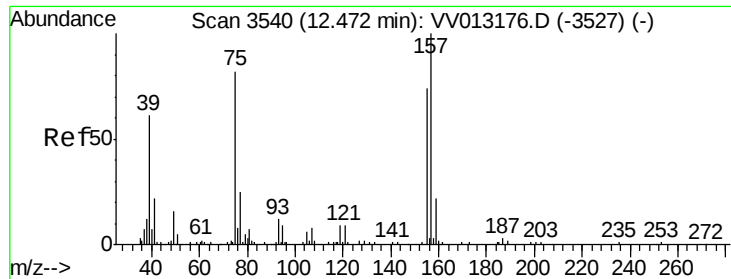


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

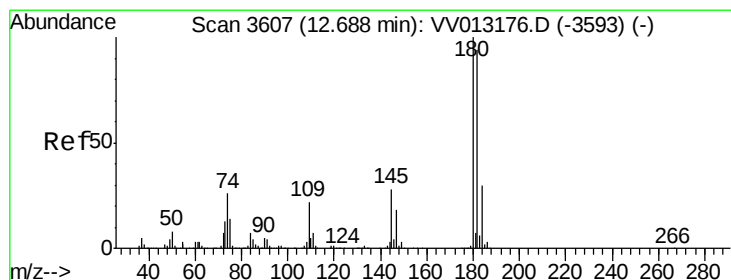
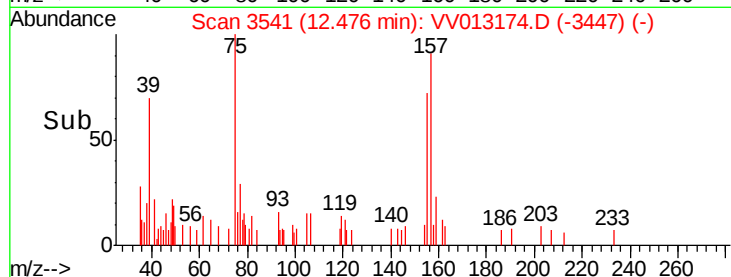
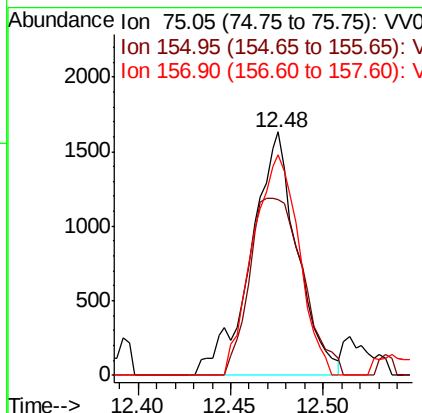
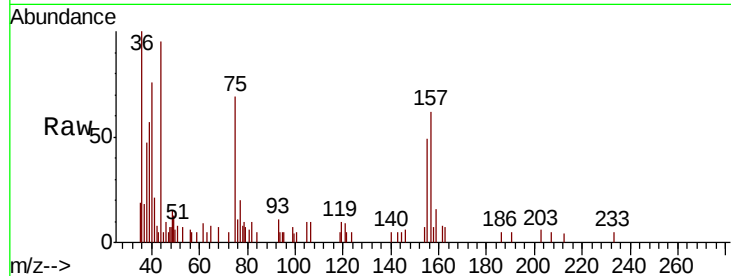




#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.536 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV013174.D
 Acq: 17 Oct 2019 16:11

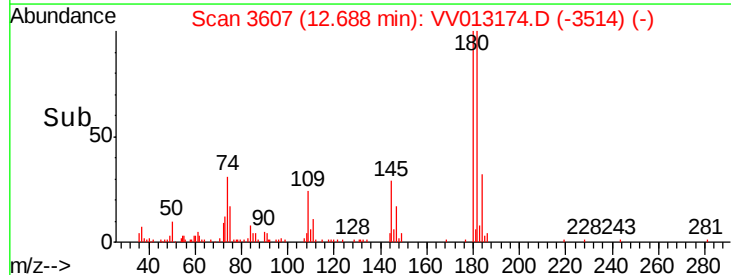
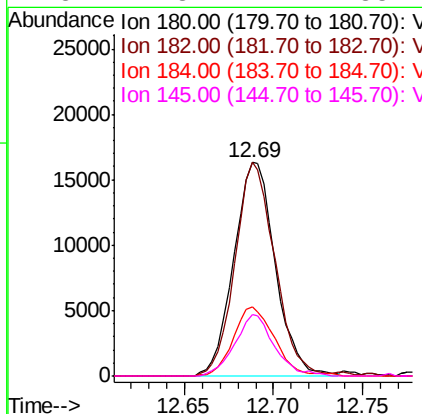
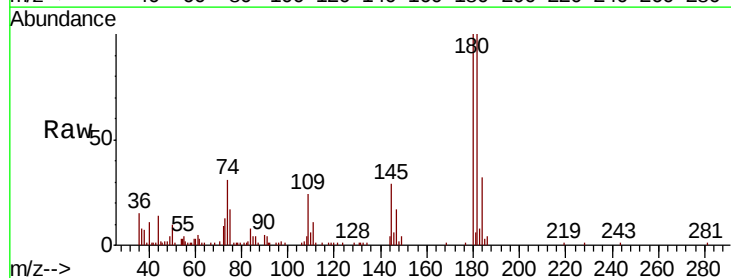
Instrument :
 MSVOA_V
 ClientSampleId :

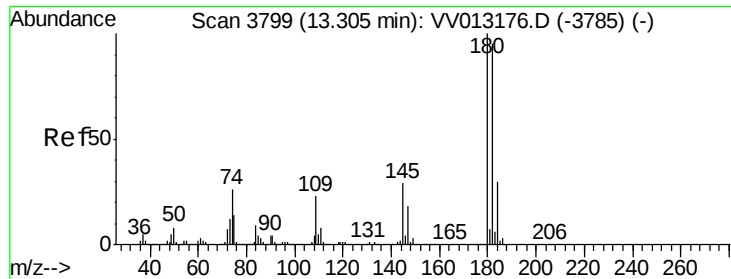
Tot Ion: 75 Resp: 2855
 Ion Ratio Lower Upper
 75 100
 155 72.0 71.9 107.9
 157 90.6 97.3 145.9#



#67
 1,3,5-Trichlorobenzene
 Concen: 0.423 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV013174.D
 Acq: 17 Oct 2019 16:11

Tgt Ion: 180 Resp: 26352
 Ion Ratio Lower Upper
 180 100
 182 95.9 75.8 113.6
 184 31.4 24.2 36.4
 145 27.3 22.1 33.1

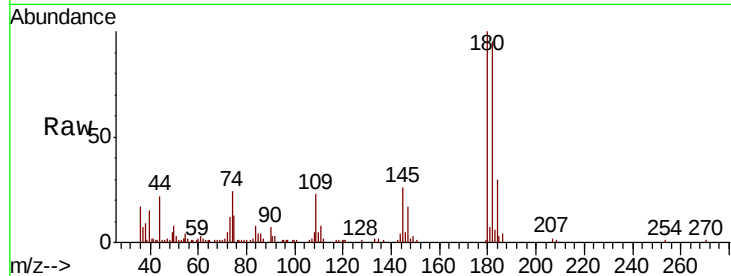




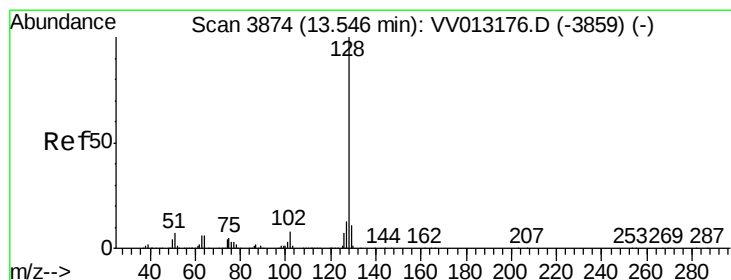
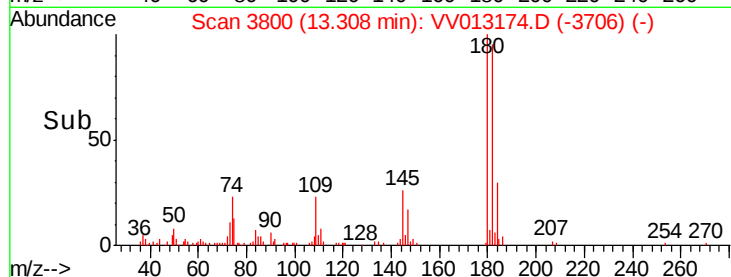
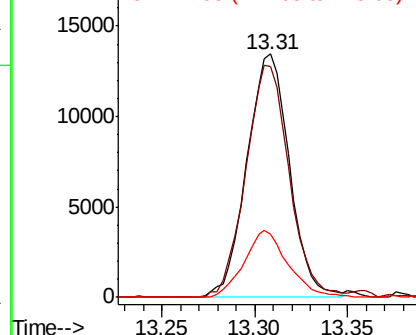
#68
 1,2,4-trichlorobenzene
 Concen: 0.425 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV013174.D
 Acq: 17 Oct 2019 16:11

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.1	75.9	113.9
145	28.2	22.4	33.6

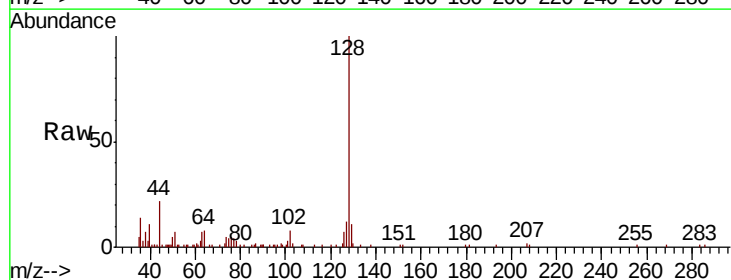


Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

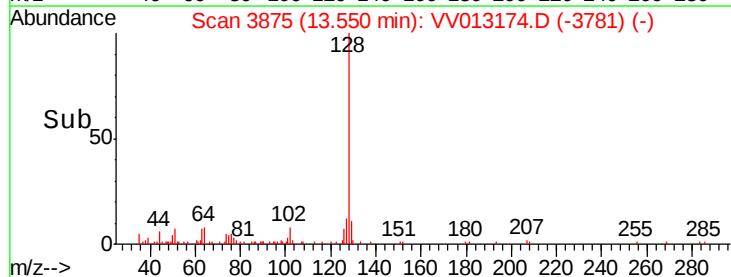
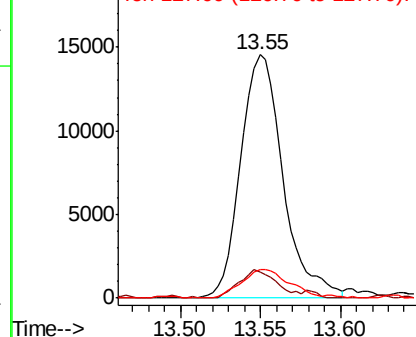


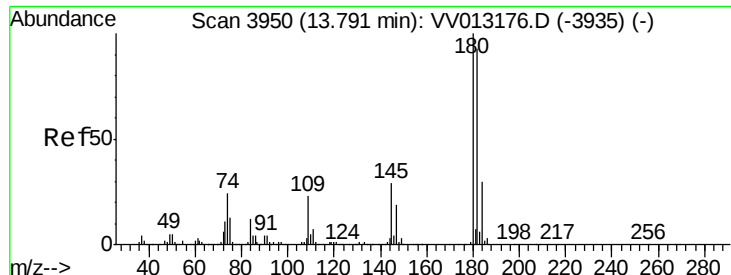
#69
 Naphthalene
 Concen: 0.346 ug/L
 RT: 13.55 min Scan# 3875
 Delta R.T. 0.00 min
 Lab File: VV013174.D
 Acq: 17 Oct 2019 16:11

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.3	8.6	13.0
127	13.1	10.4	15.6



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V

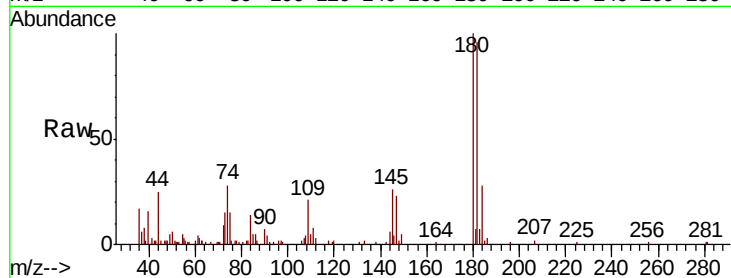




#70
 1,2,3-Trichlorobenzene
 Concen: 0.380 ug/L
 RT: 13.79 min Scan# 3949
 Delta R.T. -0.00 min
 Lab File: VV013174.D
 Acq: 17 Oct 2019 16:11

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.5	114.7
145	31.0	23.8	35.6



Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

