

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV101119\
 Data File : VV013116.D
 Acq On : 11 Oct 2019 21:56
 Operator : SY/MD
 Sample : MDL04 2.5PPB
 Misc : 5.00ML/MSVOA_V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04 2.5PPB

Quant Time: Oct 12 03:30:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM101119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Oct 12 01:26:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	713960	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	672502	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	285188	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	242918	53.83	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	107.66%
7) Chloroethane-d5	1.58	69	209901	56.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	113.48%
11) 1,1-Dichloroethene-d2	2.13	63	348303	40.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.84%
21) 2-Butanone-d5	3.92	46	385404	113.58	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	113.58%
24) Chloroform-d	4.40	84	463586	53.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.72%
26) 1,2-Dichloroethane-d4	5.08	65	302694	56.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	113.04%
32) Benzene-d6	5.10	84	994594	55.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.86%
36) 1,2-Dichloropropane-d6	6.12	67	315799	56.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	112.36%
41) Toluene-d8	7.36	98	857133	53.38	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.76%
43) trans-1,3-Dichloropropene-	7.66	79	130623	51.29	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.58%
47) 2-Hexanone-d5	8.13	63	250746	112.11	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.11%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	386241	53.24	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	106.48%
64) 1,2-Dichlorobenzene-d4	11.67	152	328091	58.72	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	117.44%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	12640	2.282 ug/L	94
3) Chloromethane	1.25	50	15588	2.474 ug/L	99
5) Vinyl chloride	1.33	62	14361	2.372 ug/L #	71
6) Bromomethane	1.53	94	9539	3.079 ug/L	98
8) Chloroethane	1.60	64	9145	2.540 ug/L	99
9) Trichlorofluoromethane	1.77	101	17414	2.242 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	13676	2.989 ug/L #	82
12) 1,1-Dichloroethene	2.14	96	12459	2.814 ug/L #	1
13) Acetone	2.19	43	11797	3.786 ug/L	98
14) Carbon disulfide	2.32	76	30758	2.395 ug/L	99
15) Methyl Acetate	2.46	43	12126	2.196 ug/L	96
16) Methylene chloride	2.54	84	12498	2.372 ug/L	99
17) trans-1,2-Dichloroethene	2.79	96	10400	2.165 ug/L	92
18) Methyl tert-butyl Ether	2.80	73	30734	2.120 ug/L	98
19) 1,1-Dichloroethane	3.23	63	20388	2.250 ug/L	98
20) cis-1,2-Dichloroethene	3.96	96	11767	2.165 ug/L	95
22) 2-Butanone	4.03	43	13139	3.313 ug/L #	72

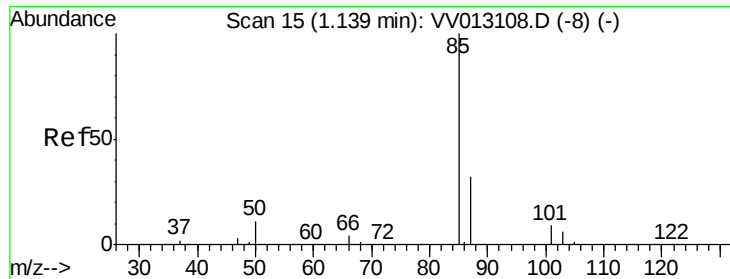
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV101119\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	6017	2.179	ug/L	92
25) Chloroform	4.43	83	26725	2.927	ug/L	98
27) 1,2-Dichloroethane	5.18	62	14955	2.137	ug/L	97
29) Cyclohexane	4.73	56	16620	2.064	ug/L	95
30) 1,1,1-Trichloroethane	4.66	97	16393	2.197	ug/L	98
31) Carbon tetrachloride	4.88	117	14951	2.255	ug/L	95
33) Benzene	5.15	78	45295	2.211	ug/L	100
34) Trichloroethene	5.96	95	12709	2.330	ug/L	98
35) Methylcyclohexane	6.18	83	18426	2.234	ug/L	94
37) 1,2-Dichloropropane	6.22	63	10979	2.070	ug/L #	94
38) Bromodichloromethane	6.56	83	15074	2.234	ug/L	89
39) cis-1,3-Dichloropropene	7.07	75	15468	1.972	ug/L #	80
40) 4-Methyl-2-pentanone	7.27	43	26988	3.887	ug/L	99
42) Toluene	7.43	91	48689	2.309	ug/L	94
44) trans-1,3-Dichloropropene	7.69	75	14943	2.197	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	11234	2.231	ug/L	96
46) Tetrachloroethene	8.02	164	9655	2.236	ug/L	96
48) 2-Hexanone	8.18	43	33840	6.303	ug/L	96
49) Dibromochloromethane	8.29	129	11285	2.056	ug/L	98
50) 1,2-Dibromoethane	8.40	107	11574	2.199	ug/L	98
51) Chlorobenzene	8.92	112	31452	2.274	ug/L	99
52) Ethylbenzene	9.05	91	44088	1.957	ug/L	99
53) m,p-Xylene	9.18	106	16114	1.902	ug/L	90
54) o-xylene	9.59	106	15825	1.864	ug/L	100
55) Styrene	9.60	104	24195	1.735	ug/L	100
56) Isopropylbenzene	9.97	105	38791	1.779	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.28	83	18641	2.546	ug/L	96
59) 1,2,3-Trichloropropane	10.32	75	14484	2.243	ug/L	99
61) Bromoform	9.77	173	8331	2.321	ug/L #	95
62) 1,3-Dichlorobenzene	11.23	146	20041	2.173	ug/L	97
63) 1,4-Dichlorobenzene	11.32	146	22591	2.439	ug/L	94
65) 1,2-Dichlorobenzene	11.68	146	23491	2.502	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	3142	2.301	ug/L	91
67) 1,3,5-Trichlorobenzene	12.69	180	14507	2.206	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	11935	2.116	ug/L	96
69) Naphthalene	13.55	128	24163	1.555	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	11985	1.986	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 2.282 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013116.D

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Instrument :

MSVOA_V

ClientSampleId :

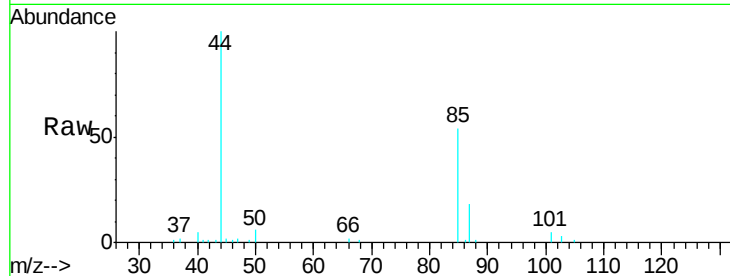
MDL04 2.5PPB

Tgt Ion: 85 Resp: 12640

Ion Ratio Lower Upper

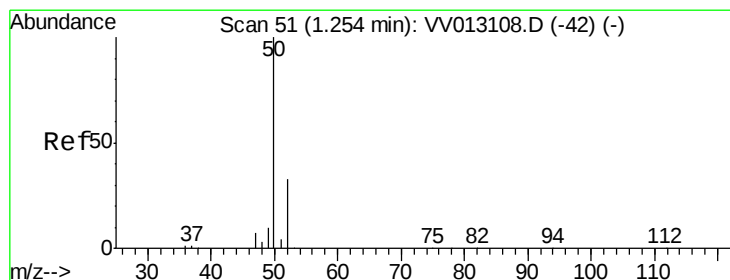
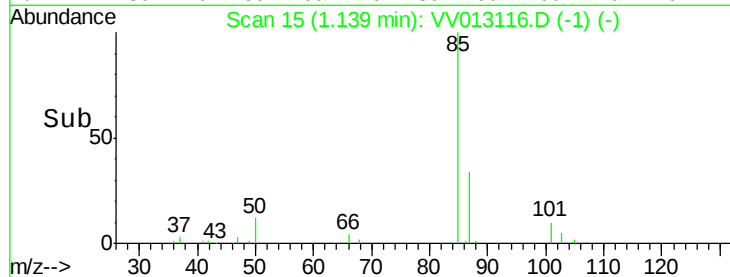
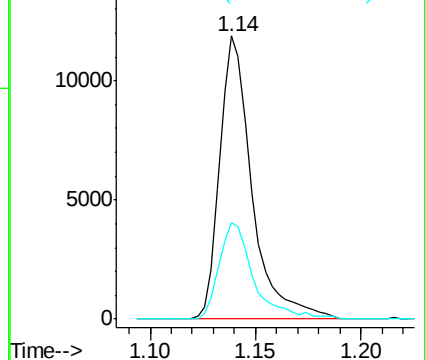
85 100

87 35.2 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: 2.474 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV013116.D

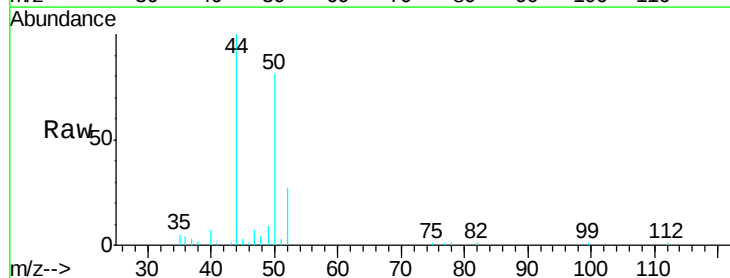
Acq: 11 Oct 2019 21:56

Tgt Ion: 50 Resp: 15588

Ion Ratio Lower Upper

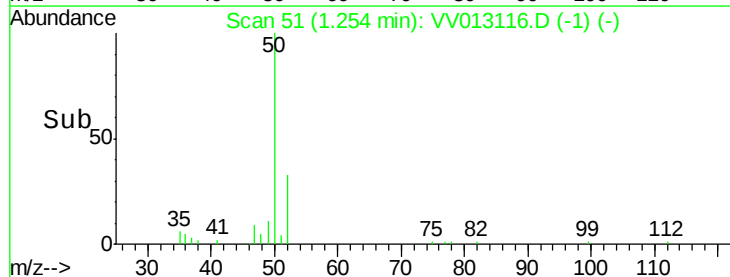
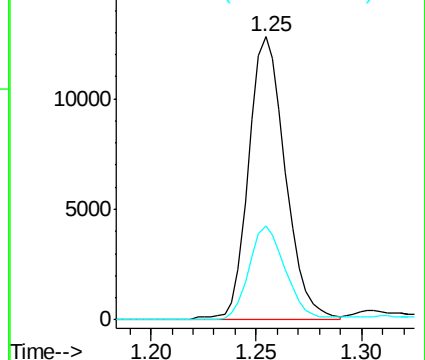
50 100

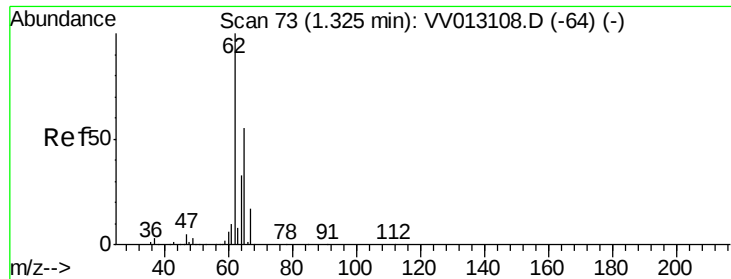
52 33.2 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.372 ug/L

RT: 1.33 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

Instrument :

MSVOA_V

ClientSampleId :

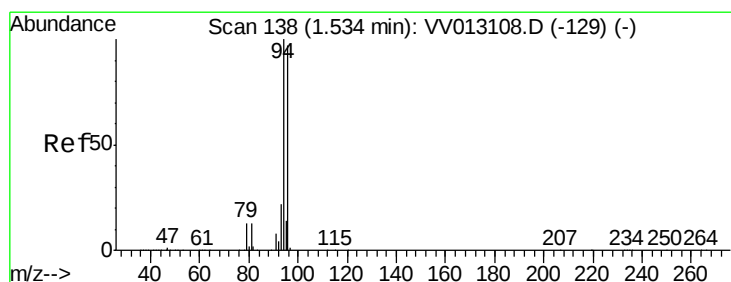
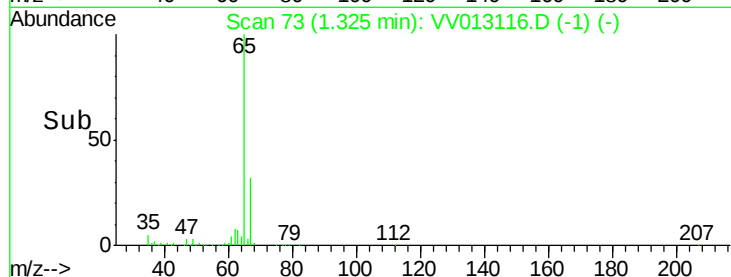
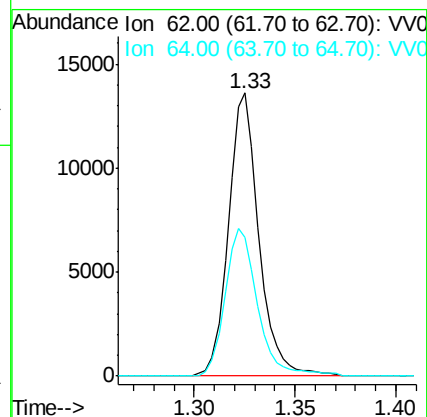
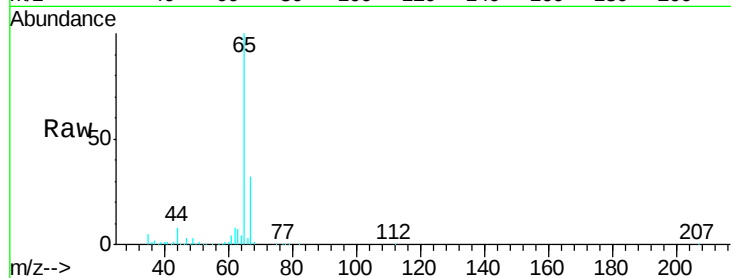
MDL04 2.5PPB

Tgt Ion: 62 Resp: 14361

Ion Ratio Lower Upper

62 100

64 48.9 22.9 42.5#



#6

Bromomethane

Concen: 3.079 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV013116.D

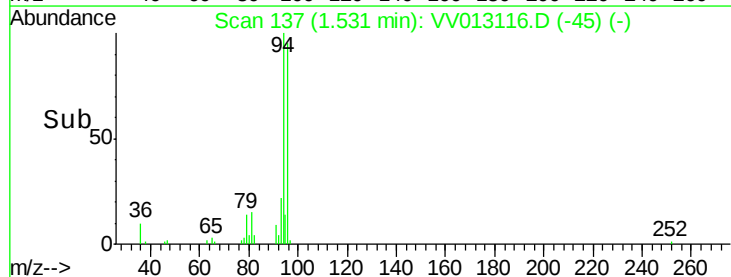
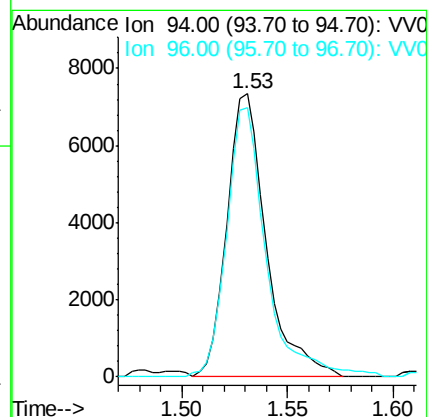
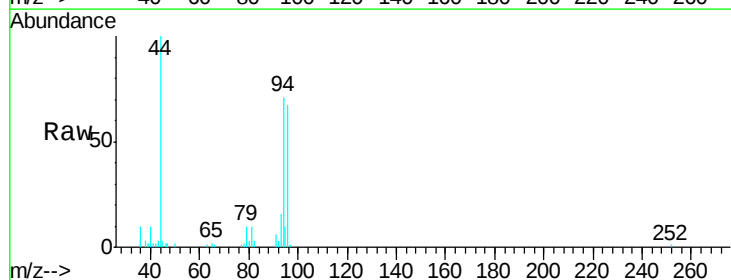
Acq: 11 Oct 2019 21:56

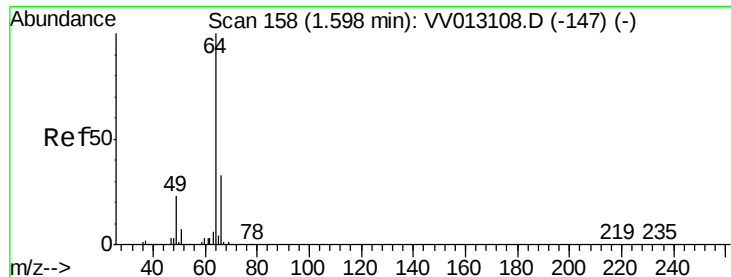
Tgt Ion: 94 Resp: 9539

Ion Ratio Lower Upper

94 100

96 95.2 68.0 126.2





#8

Chloroethane

Concen: 2.540 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

Instrument :

MSVOA_V

ClientSampleId :

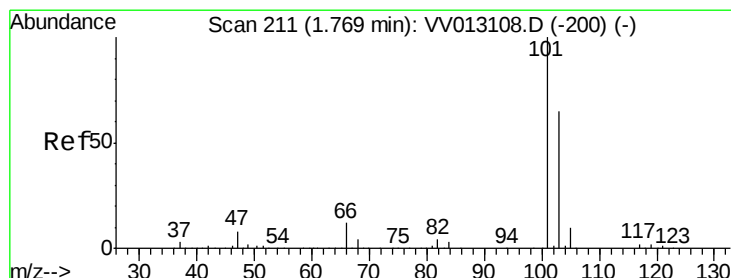
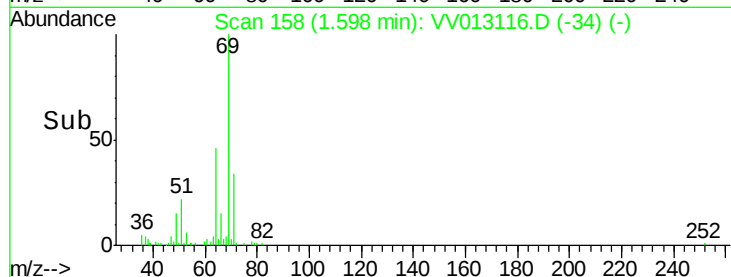
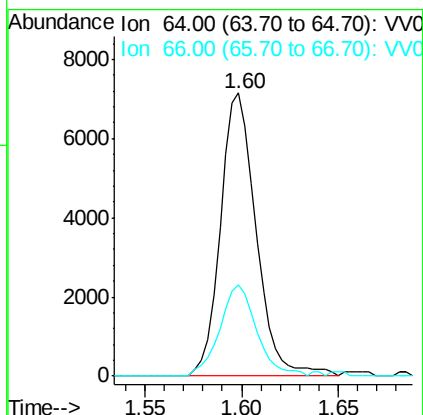
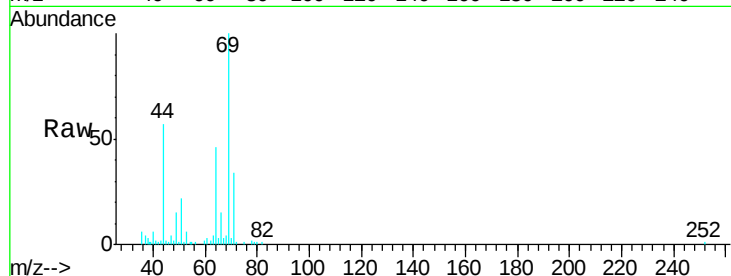
MDL04 2.5PPB

Tgt Ion: 64 Resp: 9145

Ion Ratio Lower Upper

64 100

66 32.3 23.0 42.8



#9

Trichlorofluoromethane

Concen: 2.242 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV013116.D

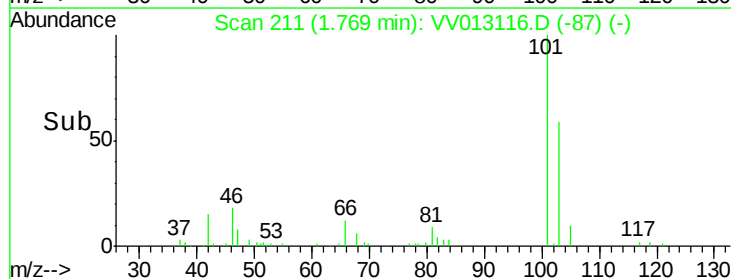
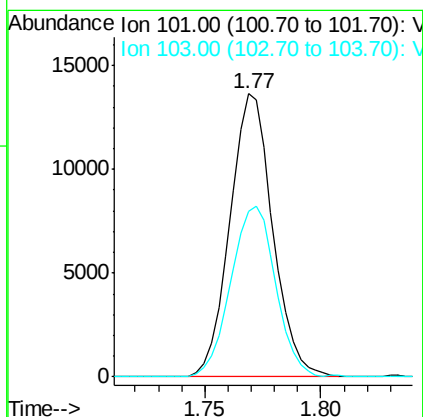
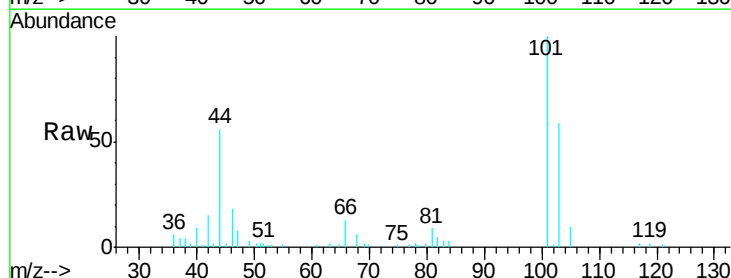
Acq: 11 Oct 2019 21:56

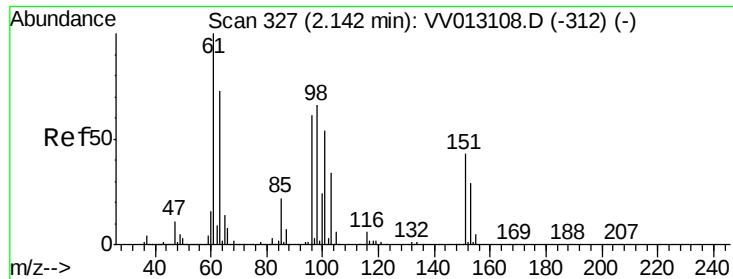
Tgt Ion: 101 Resp: 17414

Ion Ratio Lower Upper

101 100

103 63.1 51.3 76.9





#10

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

Concen: 2.989 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

Instrument :

MSVOA_V

ClientSampleId :

MDL04 2.5PPB

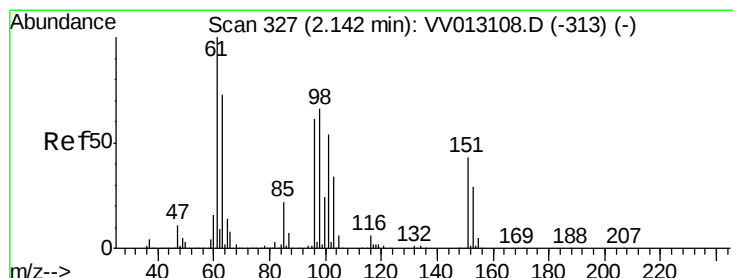
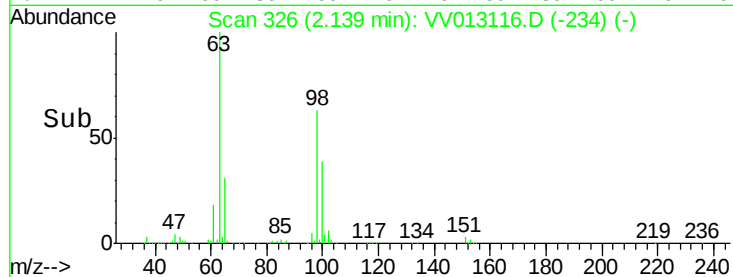
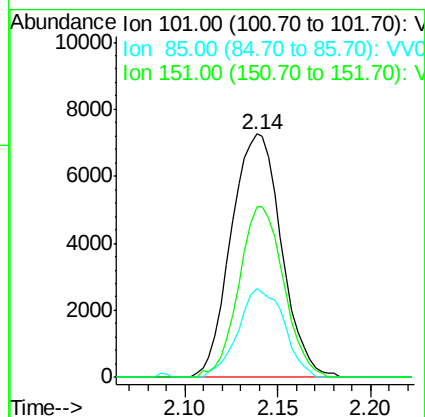
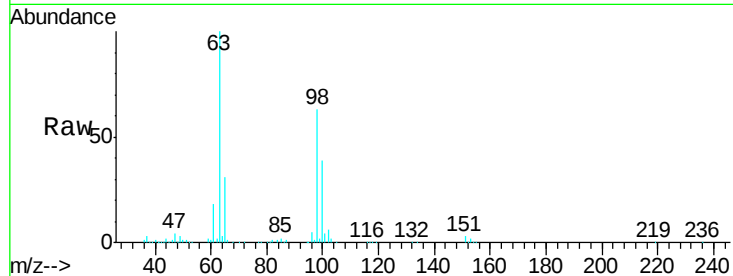
Tgt Ion: 101 Resp: 13676

Ion Ratio Lower Upper

101 100

85 33.3 32.9 49.3

151 62.8 64.9 97.3#



#12

1,1-Dichloroethene

Concen: 2.814 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

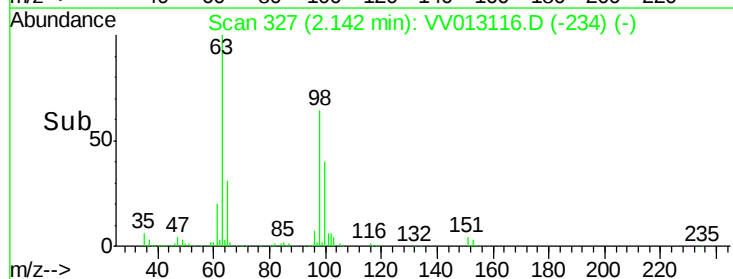
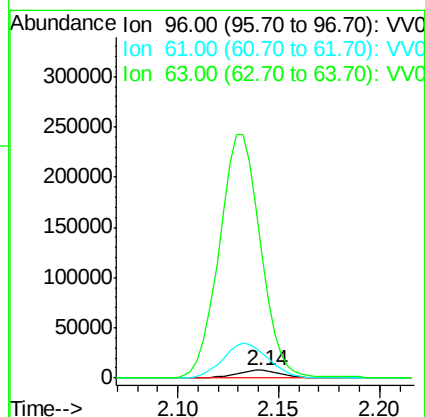
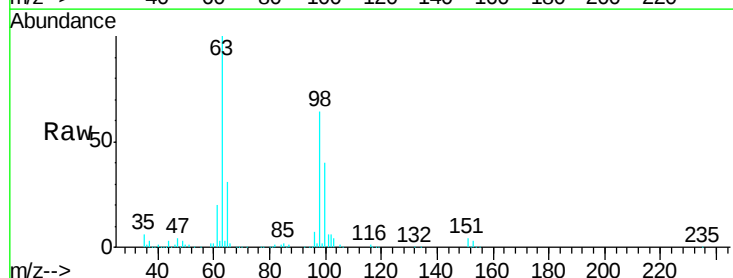
Tgt Ion: 96 Resp: 12459

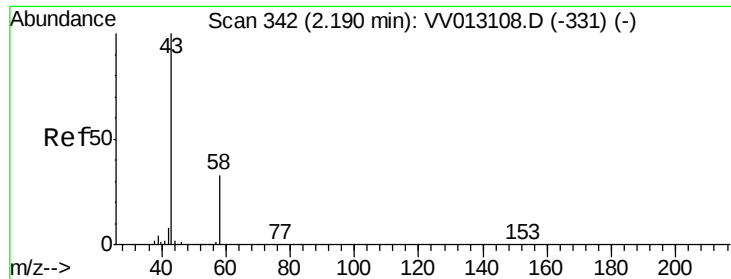
Ion Ratio Lower Upper

96 100

61 311.5 115.7 214.9#

63 1525.6 84.3 156.5#

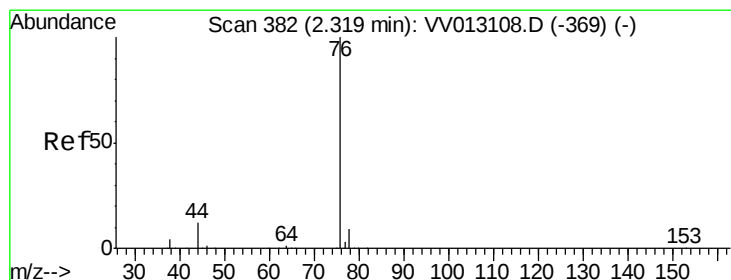
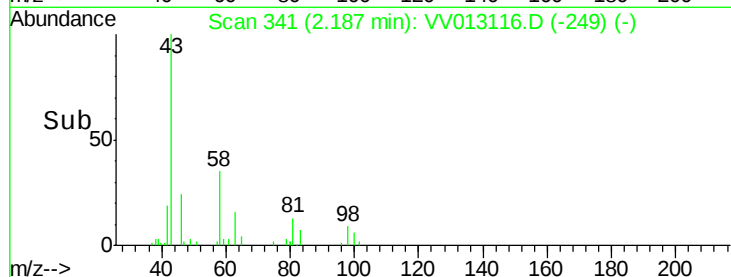
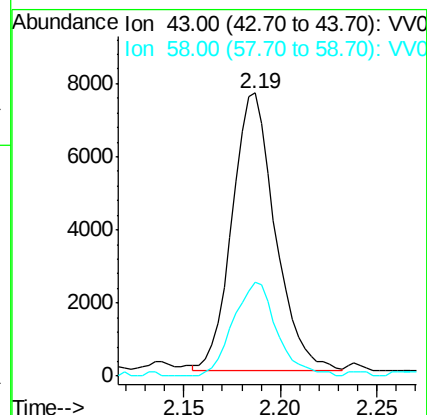
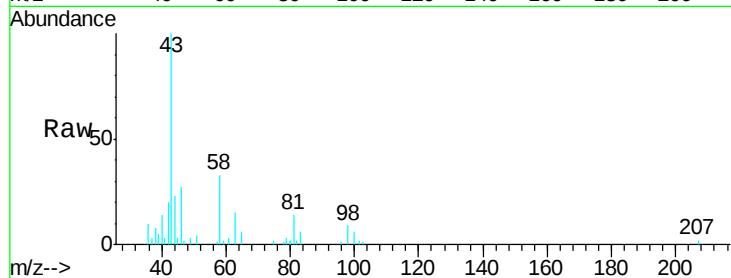




#13
Acetone
Concen: 3.786 ug/L
RT: 2.19 min Scan# 341
Delta R.T. -0.00 min
Lab File: VV013116.D
Acq: 11 Oct 2019 21:56

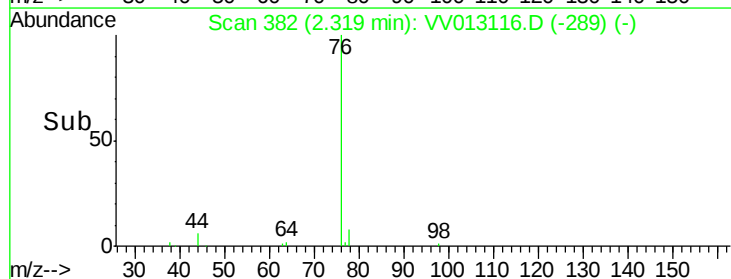
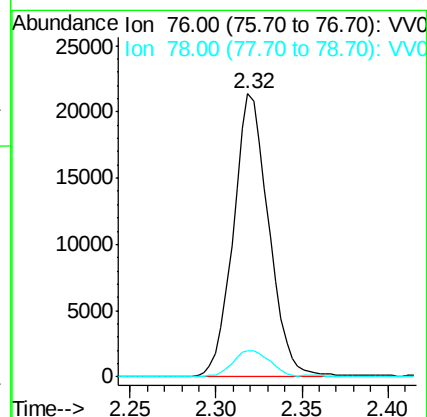
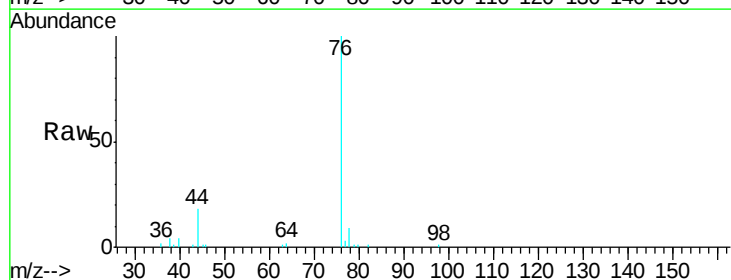
Instrument :
MSVOA_V
ClientSampleId :
MDL04 2.5PPB

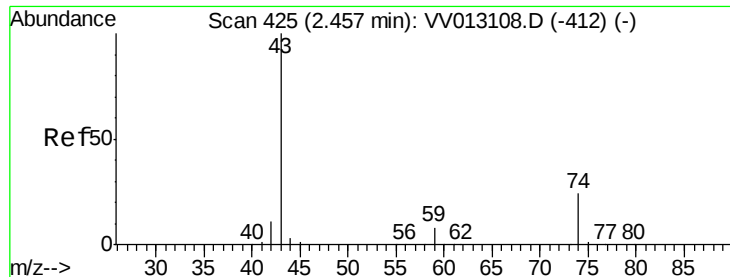
Tgt Ion: 43 Resp: 11797
Ion Ratio Lower Upper
43 100
58 34.0 0.0 66.2



#14
Carbon disulfide
Concen: 2.395 ug/L
RT: 2.32 min Scan# 382
Delta R.T. -0.00 min
Lab File: VV013116.D
Acq: 11 Oct 2019 21:56

Tgt Ion: 76 Resp: 30758
Ion Ratio Lower Upper
76 100
78 9.3 7.3 10.9

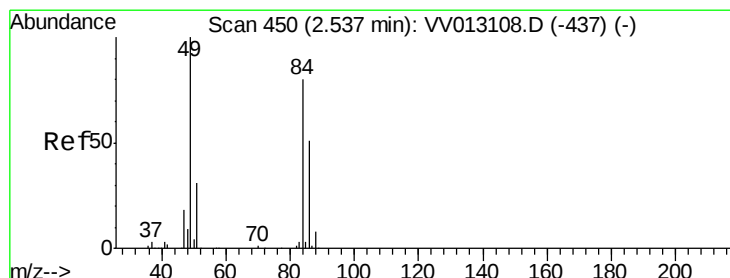
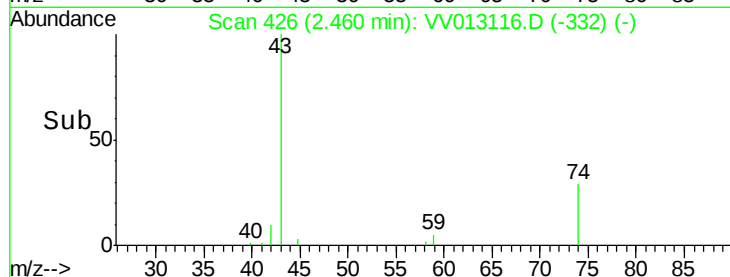
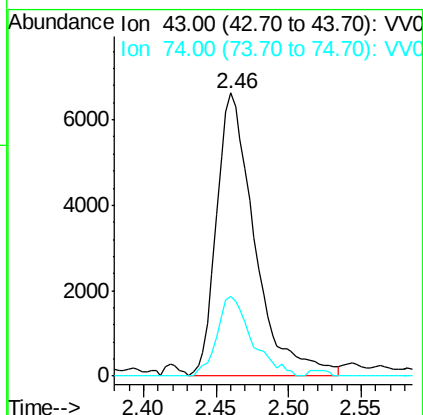
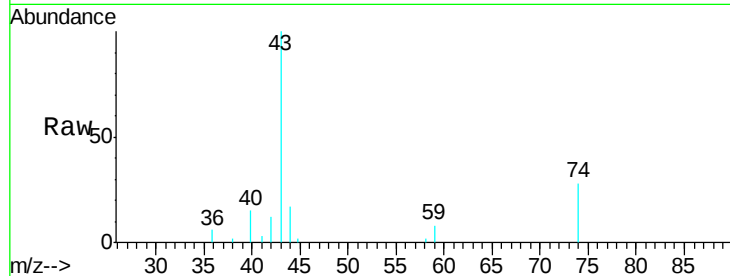




#15
Methyl Acetate
Concen: 2.196 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.00 min
Lab File: VV013116.D
Acq: 11 Oct 2019 21:56

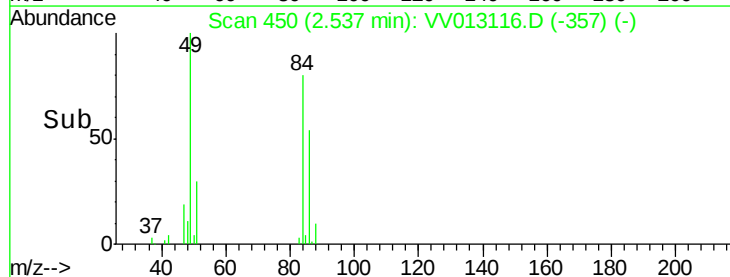
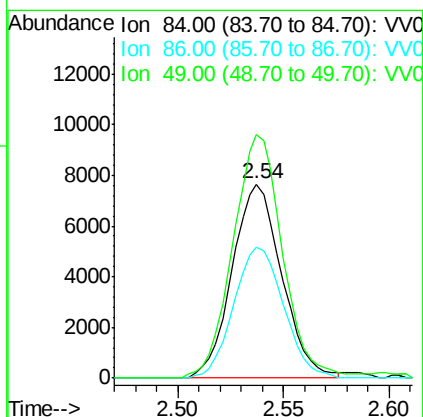
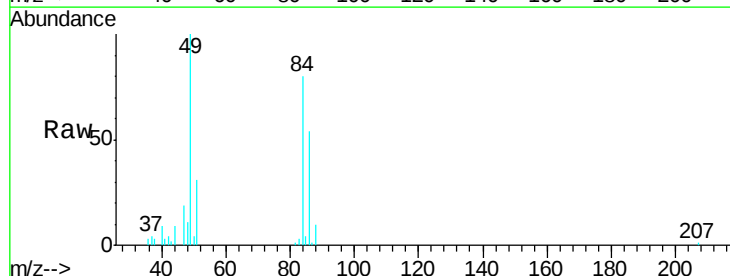
Instrument :
MSVOA_V
ClientSampleId :
MDL04 2.5PPB

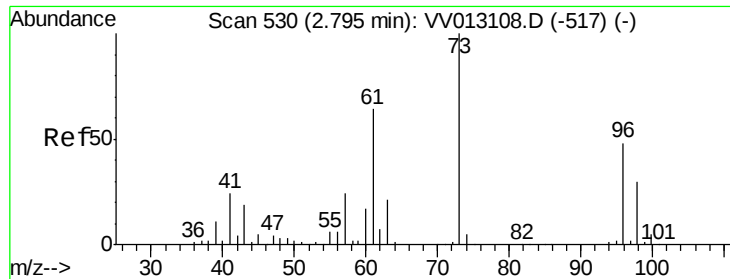
Tgt Ion: 43 Resp: 12126
Ion Ratio Lower Upper
43 100
74 24.7 18.4 27.6



#16
Methylene chloride
Concen: 2.372 ug/L
RT: 2.54 min Scan# 450
Delta R.T. -0.00 min
Lab File: VV013116.D
Acq: 11 Oct 2019 21:56

Tgt Ion: 84 Resp: 12498
Ion Ratio Lower Upper
84 100
86 67.5 45.1 83.9
49 125.6 87.8 163.0

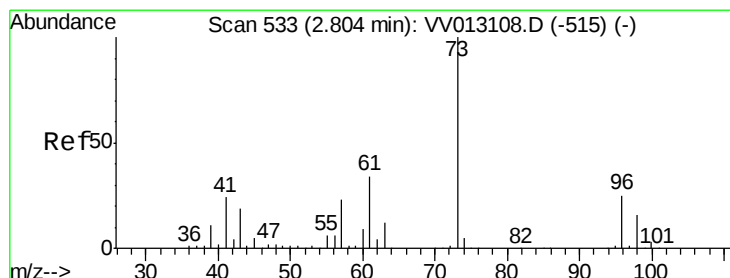
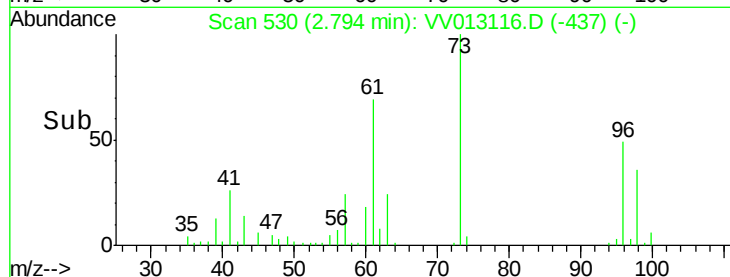
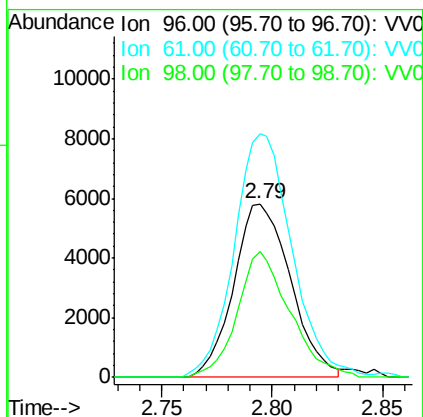
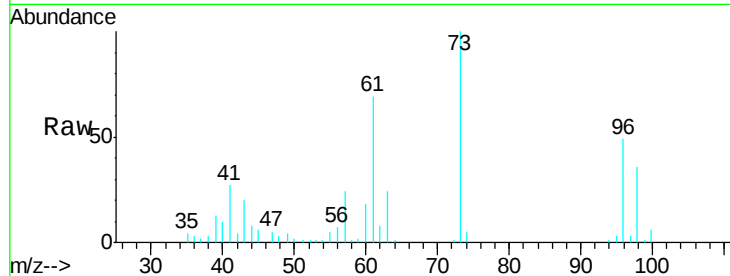




#17
trans-1,2-Dichloroethene
Concen: 2.165 ug/L
RT: 2.79 min Scan# 530
Delta R.T. -0.00 min
Lab File: VV013116.D
Acq: 11 Oct 2019 21:56

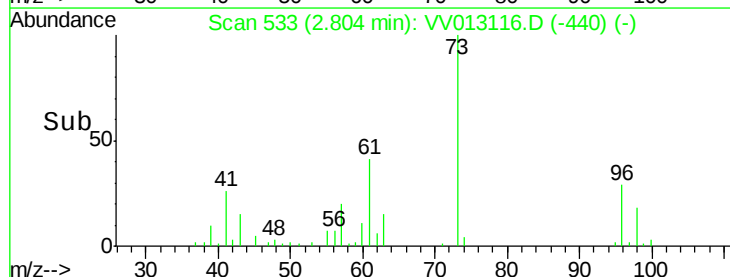
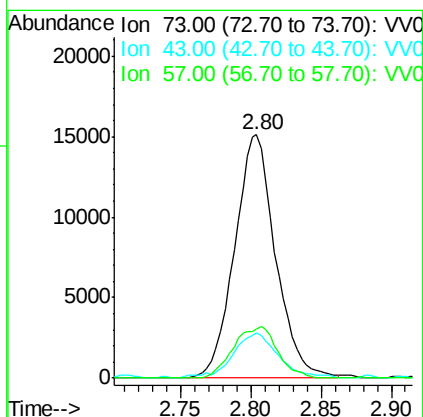
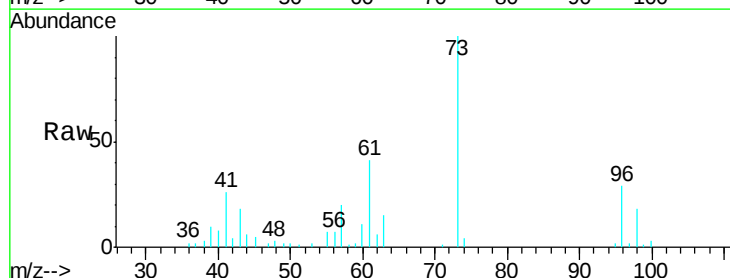
Instrument :
MSVOA_V
ClientSampleId :
MDL04 2.5PPB

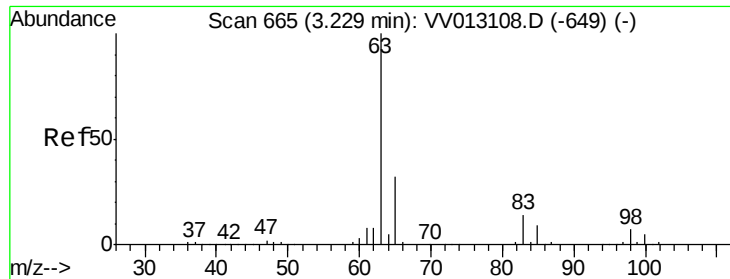
Tgt Ion: 96 Resp: 10400
Ion Ratio Lower Upper
96 100
61 140.4 93.9 174.5
98 72.4 43.9 81.5



#18
Methyl tert-butyl Ether
Concen: 2.120 ug/L
RT: 2.80 min Scan# 533
Delta R.T. -0.00 min
Lab File: VV013116.D
Acq: 11 Oct 2019 21:56

Tgt Ion: 73 Resp: 30734
Ion Ratio Lower Upper
73 100
43 16.8 15.0 22.6
57 22.8 18.2 27.2

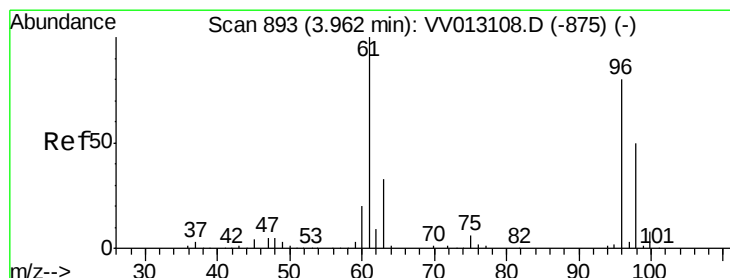
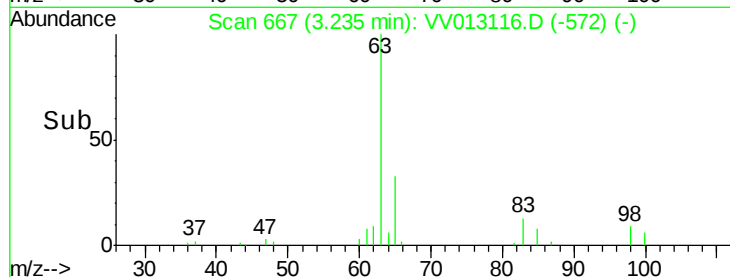
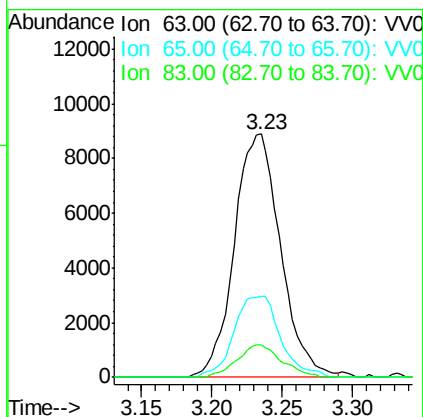
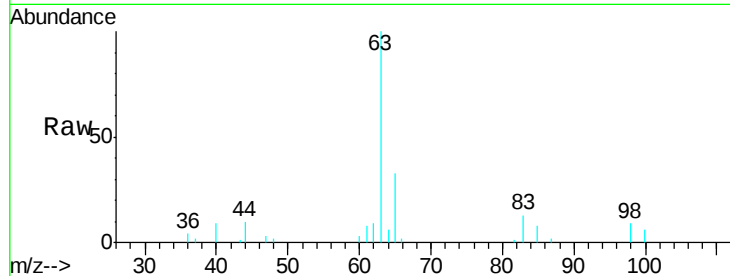




#19
 1,1-Dichloroethane
 Concen: 2.250 ug/L
 RT: 3.23 min Scan# 667
 Delta R.T. 0.01 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

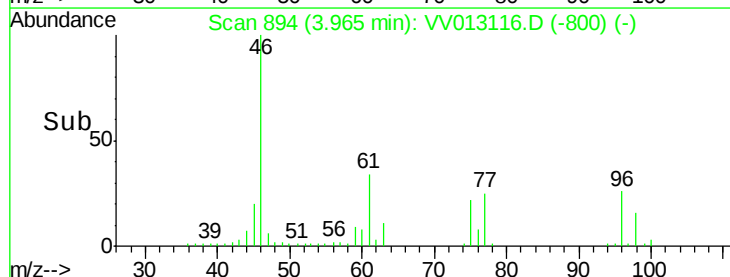
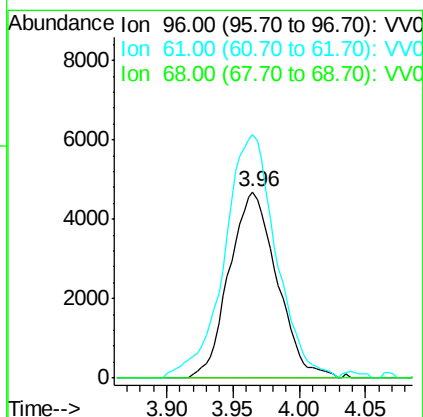
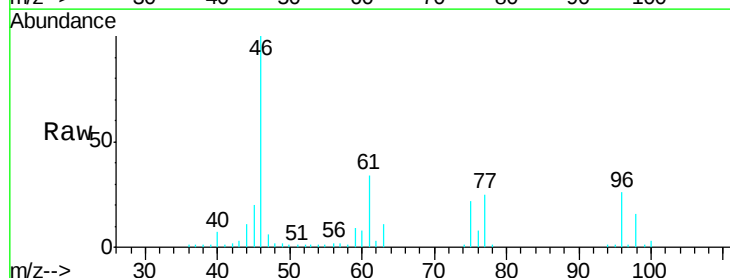
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04 2.5PPB

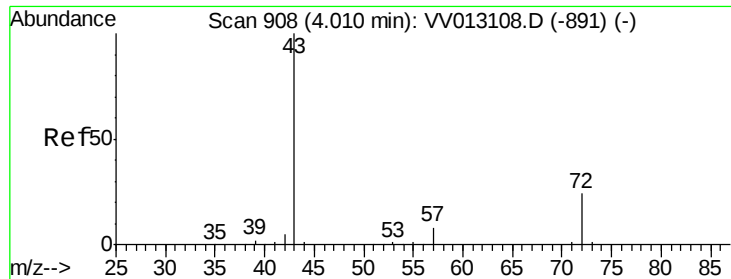
Tgt Ion: 63 Resp: 20388
 Ion Ratio Lower Upper
 63 100
 65 33.4 22.1 41.1
 83 13.3 9.5 17.7



#20
 cis-1,2-Dichloroethene
 Concen: 2.165 ug/L
 RT: 3.96 min Scan# 894
 Delta R.T. 0.00 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

Tgt Ion: 96 Resp: 11767
 Ion Ratio Lower Upper
 96 100
 61 130.7 87.5 162.5
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 3.313 ug/L

RT: 4.03 min Scan# 914

Delta R.T. 0.02 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

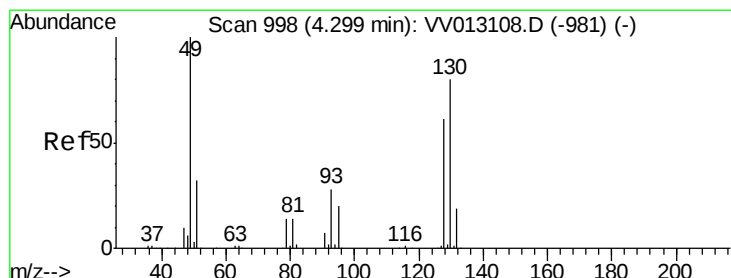
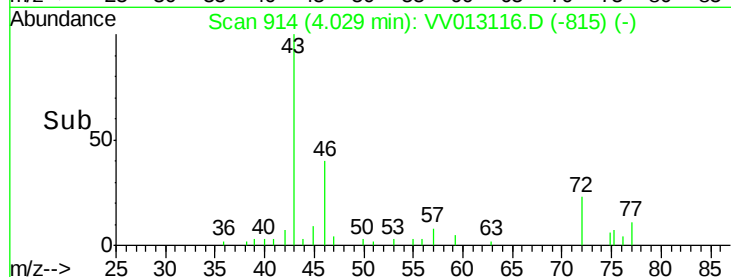
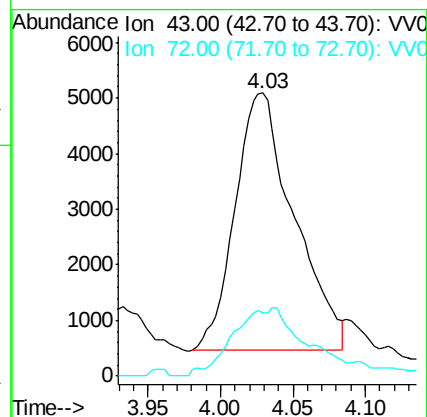
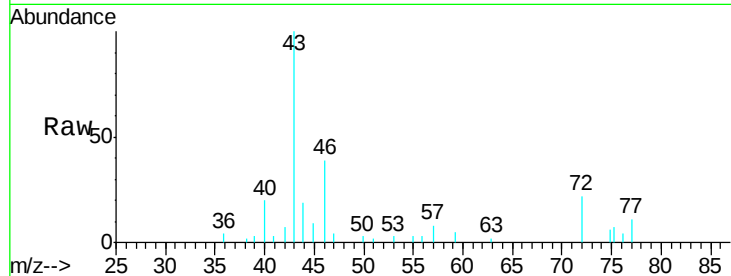
Instrument :
MSVOA_V
ClientSampleId :
MDL04 2.5PPB

Tgt Ion: 43 Resp: 13139

Ion Ratio Lower Upper

43 100

72 11.3 12.8 38.4#



#23

Bromochloromethane

Concen: 2.179 ug/L

RT: 4.30 min Scan# 999

Delta R.T. 0.00 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

Tgt Ion: 128 Resp: 6017

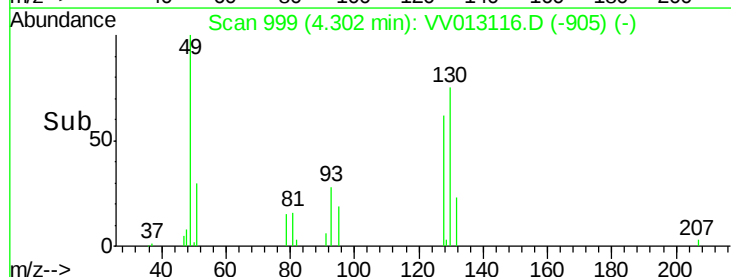
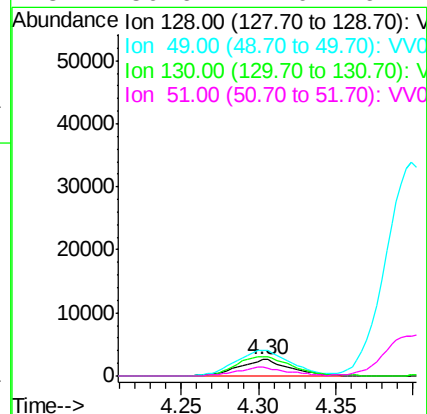
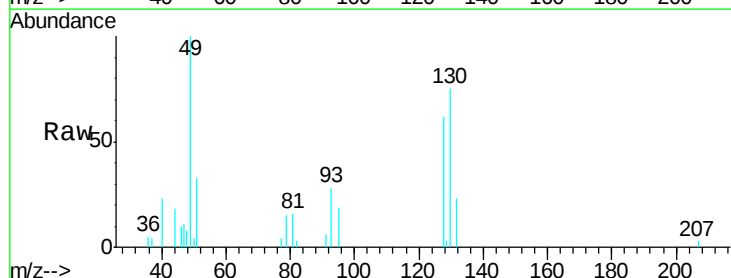
Ion Ratio Lower Upper

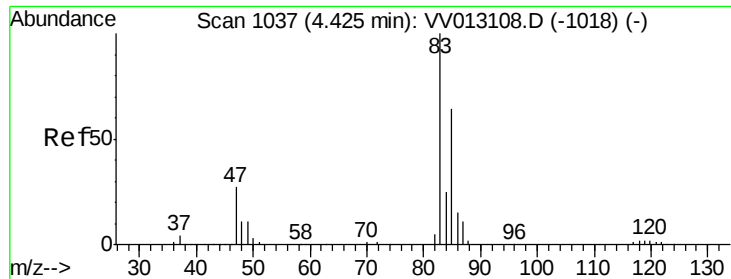
128 100

49 153.9 114.0 211.6

130 116.1 90.8 168.6

51 50.6 41.0 61.4

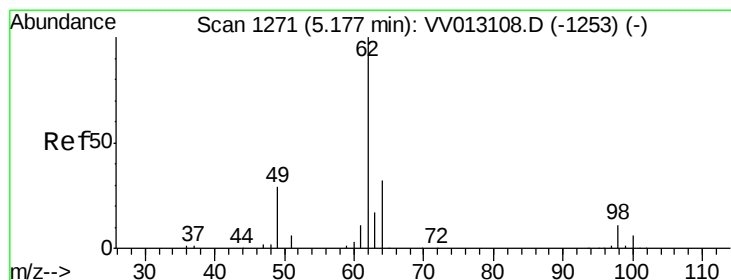
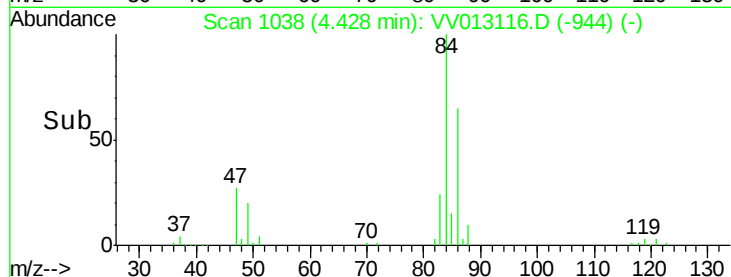
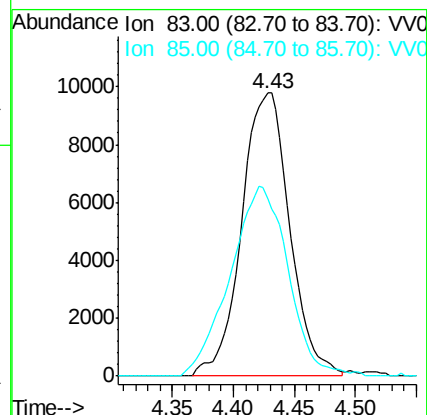
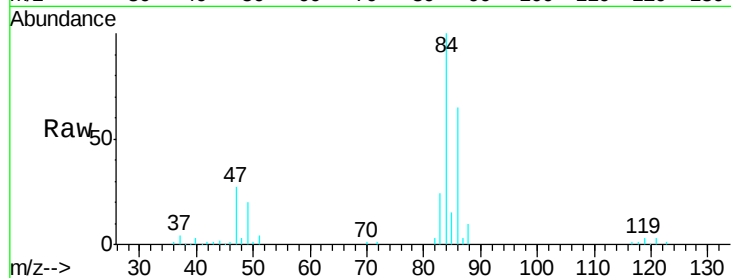




#25
Chloroform
Concen: 2.927 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV013116.D
Acq: 11 Oct 2019 21:56

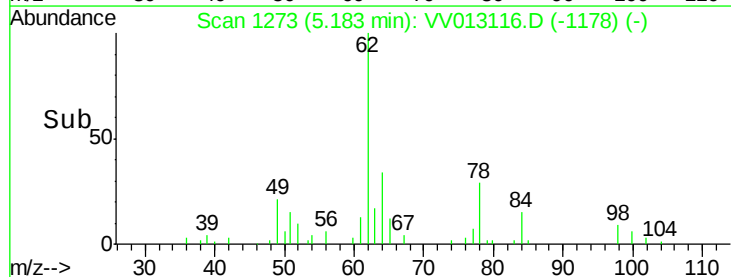
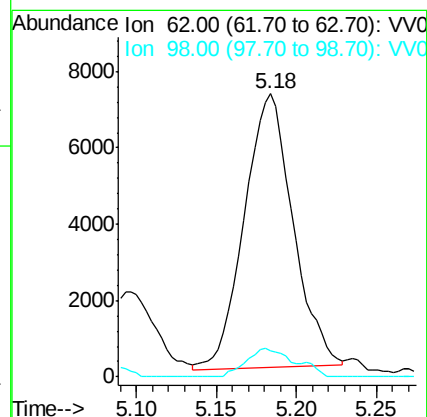
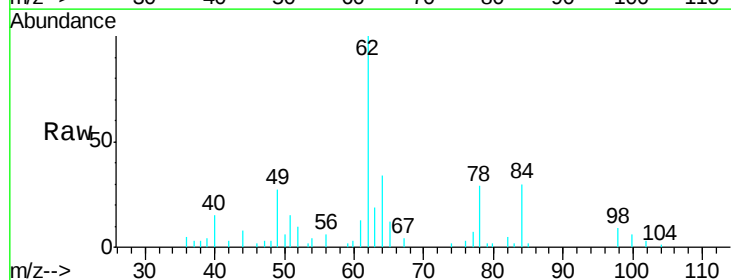
Instrument :
MSVOA_V
ClientSampled :
MDL04 2.5PPB

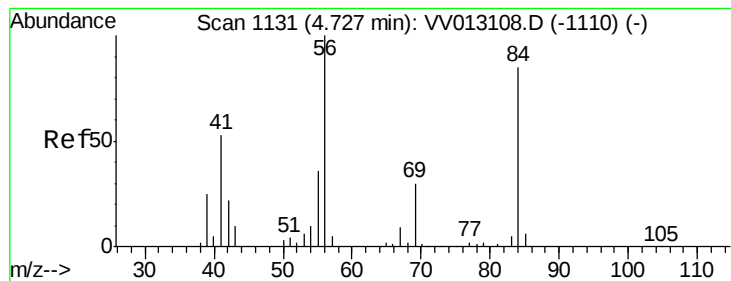
Tgt Ion: 83 Resp: 26725
Ion Ratio Lower Upper
83 100
85 62.5 44.7 82.9



#27
1,2-Dichloroethane
Concen: 2.137 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VV013116.D
Acq: 11 Oct 2019 21:56

Tgt Ion: 62 Resp: 14955
Ion Ratio Lower Upper
62 100
98 9.3 8.3 12.5





#29

Cyclohexane

Concen: 2.064 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

Instrument :

MSVOA_V

ClientSampleId :

MDL04 2.5PPB

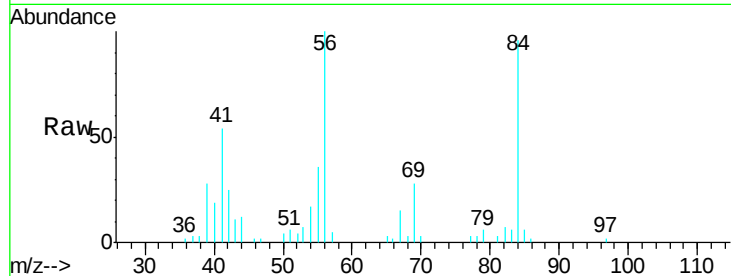
Tgt Ion: 56 Resp: 16620

Ion Ratio Lower Upper

56 100

69 28.3 24.2 36.4

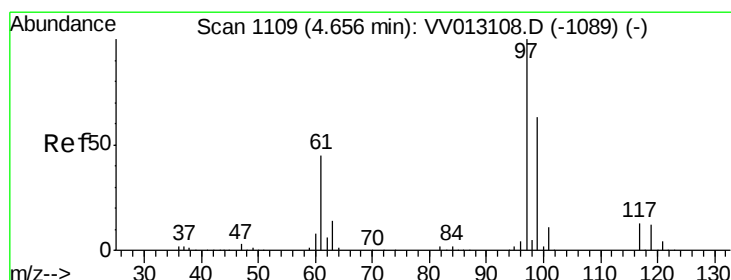
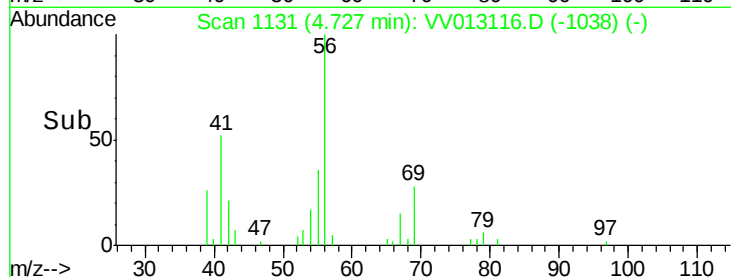
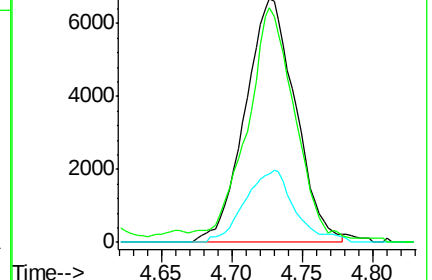
84 82.5 69.9 104.9



Abundance Ion 56.00 (55.70 to 56.70): VV013108.D (-1110) (-)

Ion 69.00 (68.70 to 69.70): VV013108.D (-1110) (-)

Ion 84.00 (83.70 to 84.70): VV013108.D (-1110) (-)



#30

1,1,1-Trichloroethane

Concen: 2.197 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

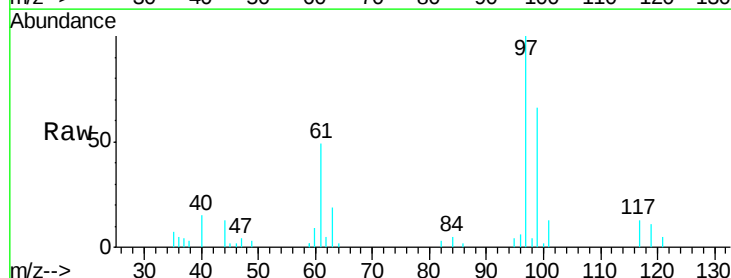
Tgt Ion: 97 Resp: 16393

Ion Ratio Lower Upper

97 100

99 66.3 51.9 77.9

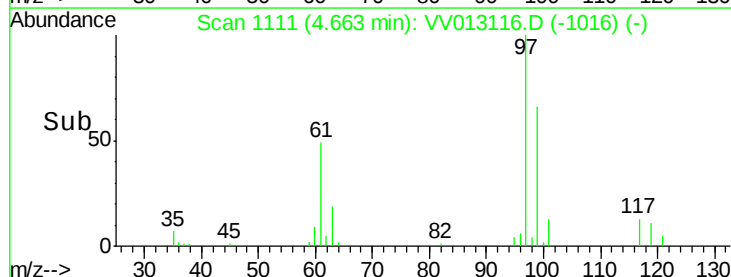
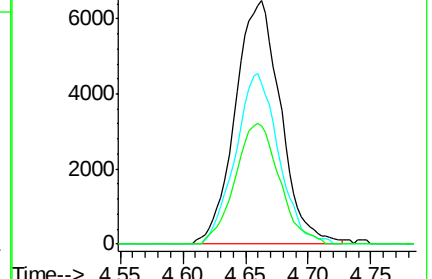
61 48.3 36.8 55.2

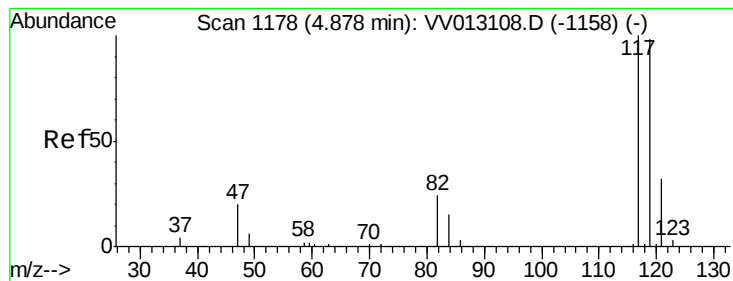


Abundance Ion 97.00 (96.70 to 97.70): VV013108.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VV013108.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VV013108.D (-1089) (-)





#31

Carbon tetrachloride

Concen: 2.255 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

Instrument :

MSVOA_V

ClientSampleId :

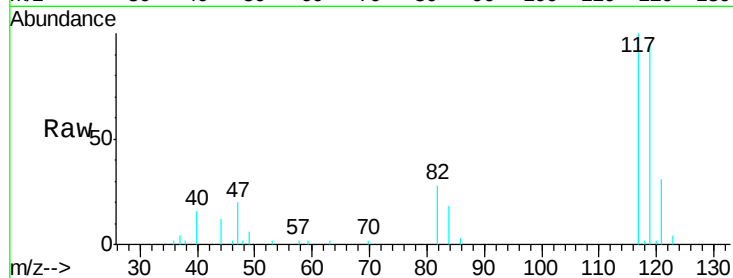
MDL04 2.5PPB

Tgt Ion:117 Resp: 14951

Ion Ratio Lower Upper

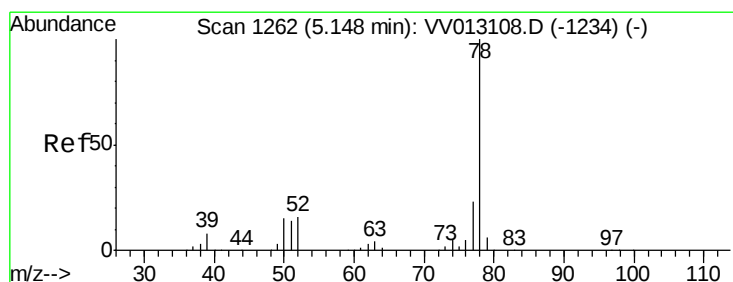
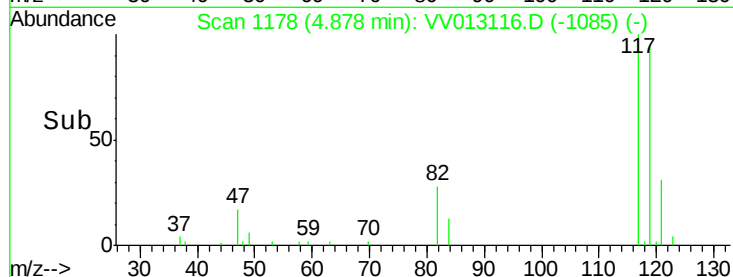
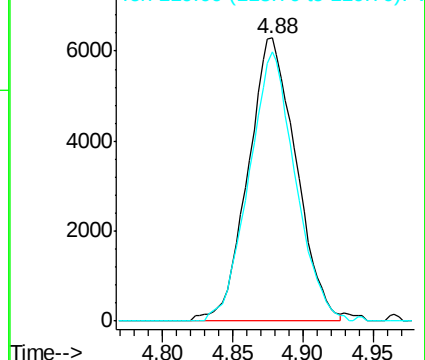
117 100

119 91.9 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.211 ug/L

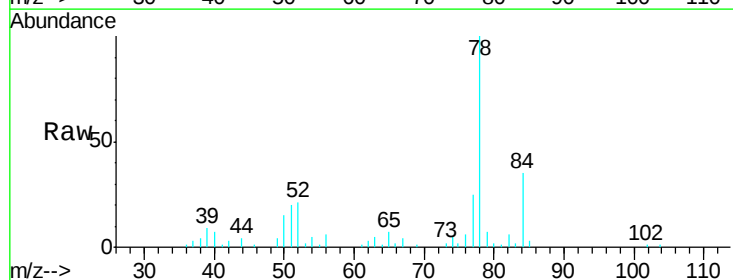
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

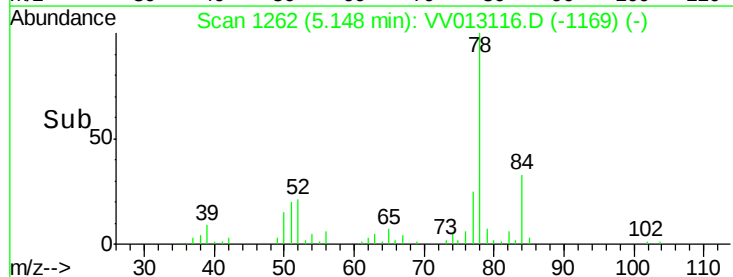
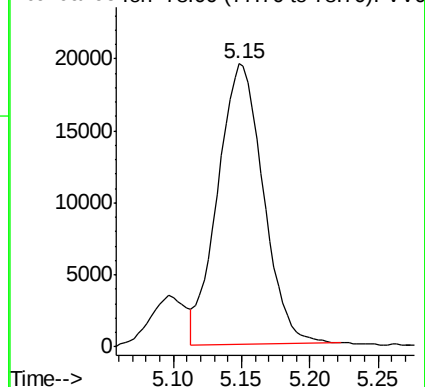
Lab File: VV013116.D

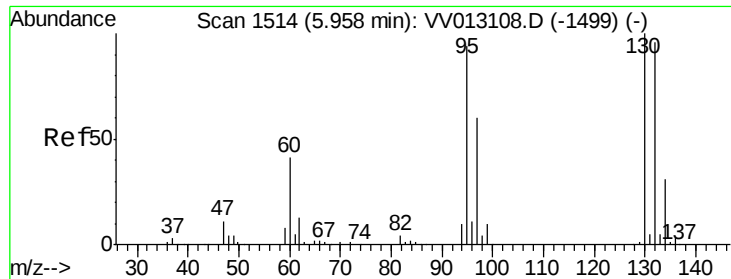
Acq: 11 Oct 2019 21:56

Tgt Ion: 78 Resp: 45295



Abundance Ion 78.00 (77.70 to 78.70): VV0

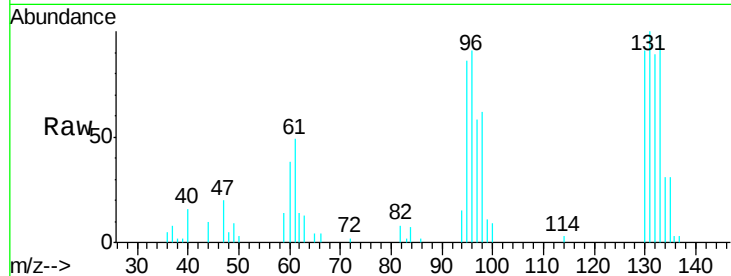




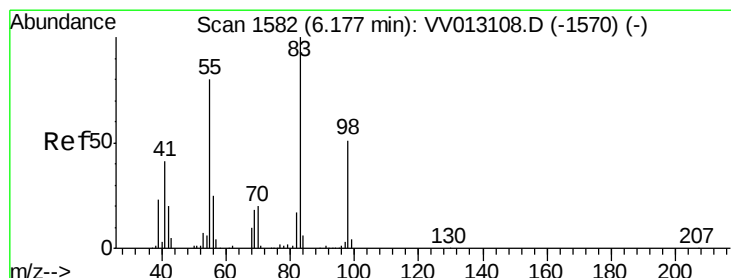
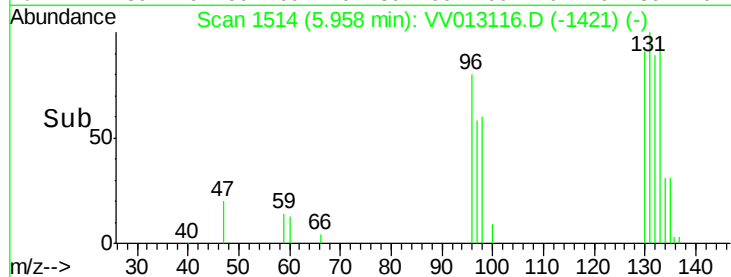
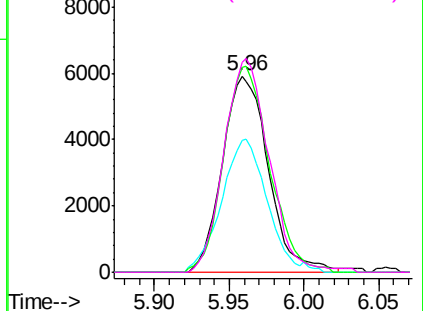
#34
 Trichloroethene
 Concen: 2.330 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. -0.00 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04 2.5PPB

Tgt Ion: 95 Resp: 12709
 Ion Ratio Lower Upper
 95 100
 97 67.3 44.7 82.9
 132 104.6 71.4 132.6
 130 107.0 74.2 137.8

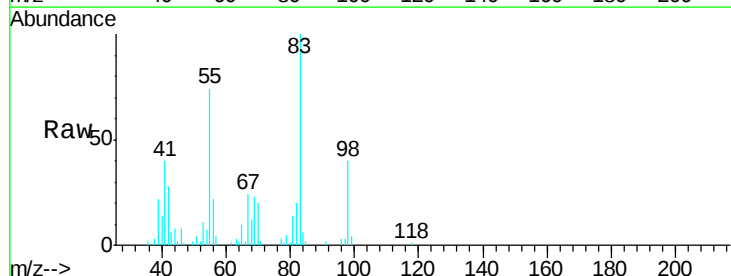


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

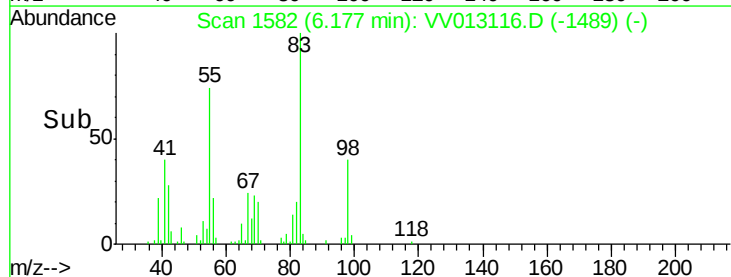
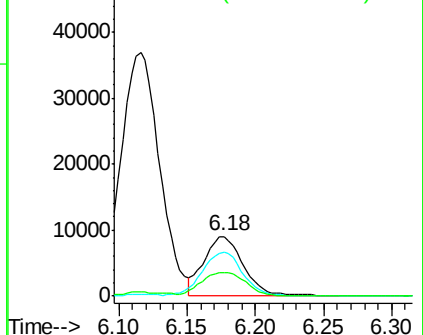


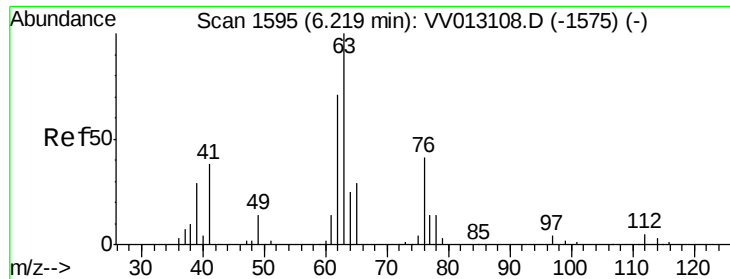
#35
 Methylcyclohexane
 Concen: 2.234 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

Tgt Ion: 83 Resp: 18426
 Ion Ratio Lower Upper
 83 100
 55 74.5 61.2 91.8
 98 41.8 40.1 60.1



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

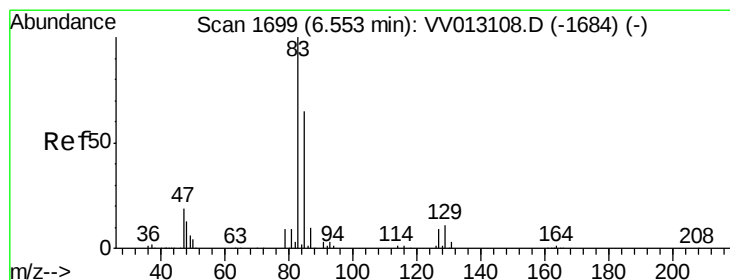
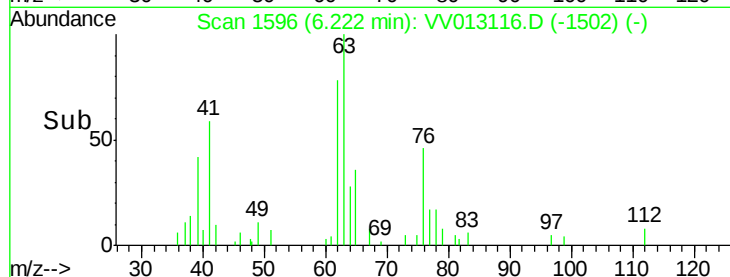
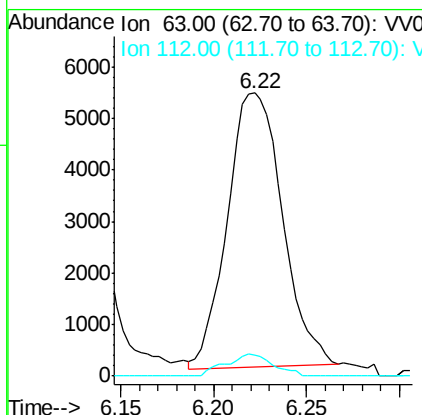
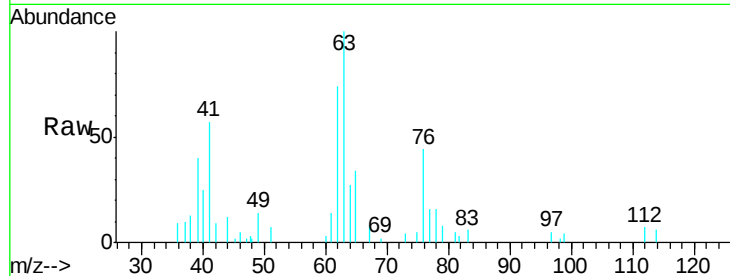




#37
 1,2-Dichloropropane
 Concen: 2.070 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

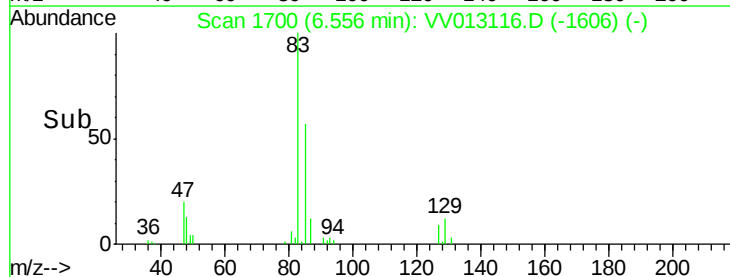
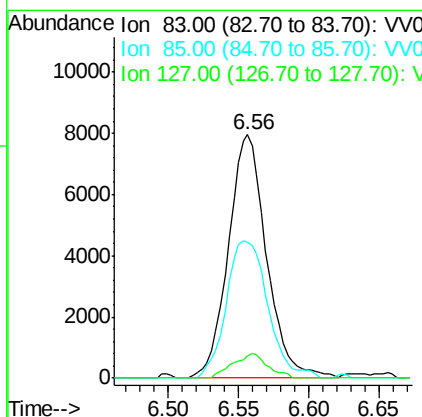
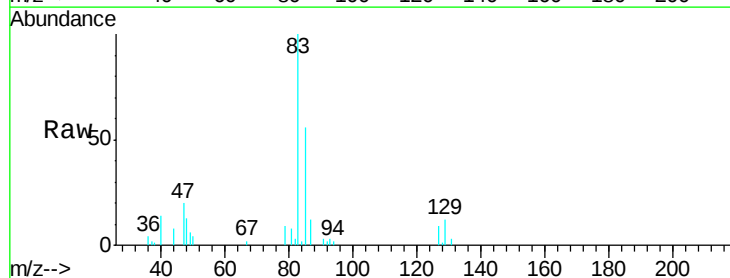
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04 2.5PPB

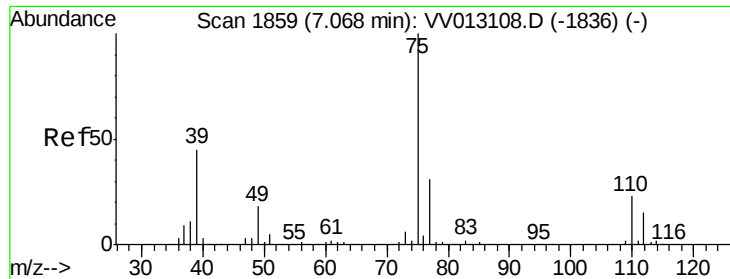
Tgt Ion: 63 Resp: 10979
 Ion Ratio Lower Upper
 63 100
 112 6.9 3.8 5.8#



#38
 Bromodichloromethane
 Concen: 2.234 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

Tgt Ion: 83 Resp: 15074
 Ion Ratio Lower Upper
 83 100
 85 55.9 45.8 85.0
 127 8.8 7.4 11.0

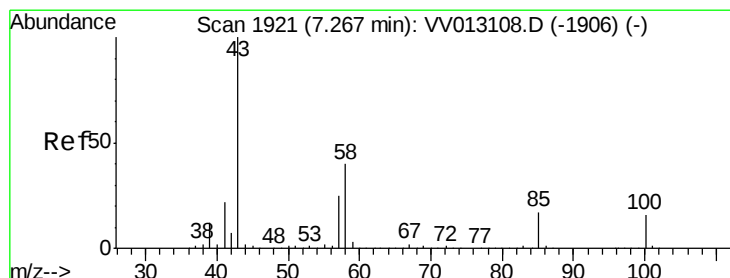
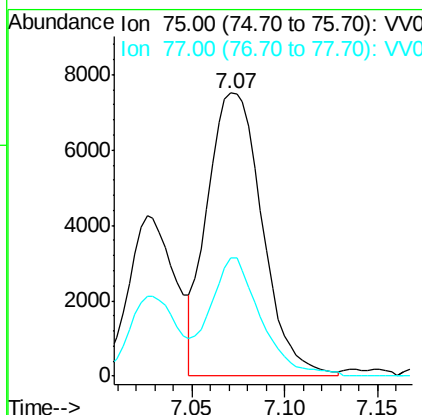
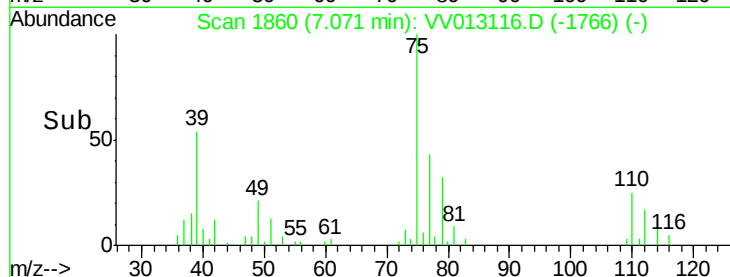
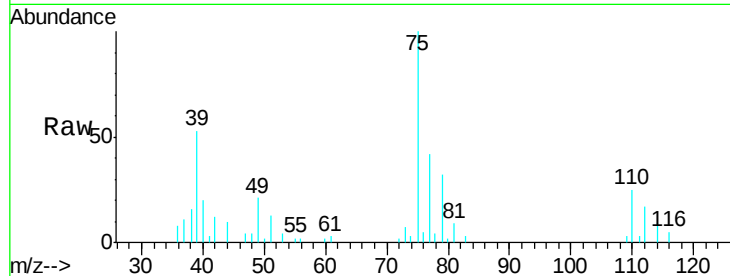




#39
 cis-1,3-Dichloropropene
 Concen: 1.972 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

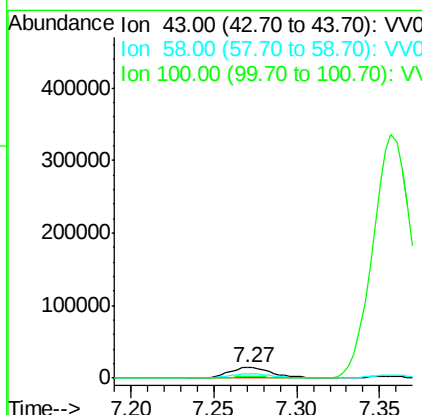
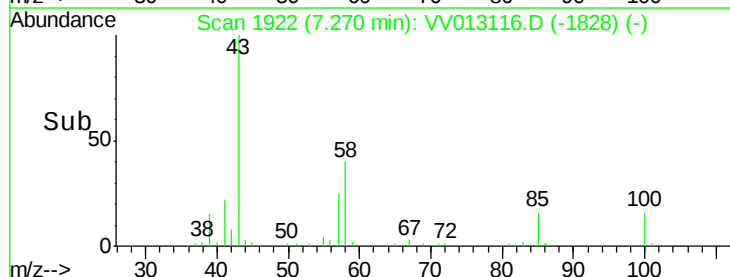
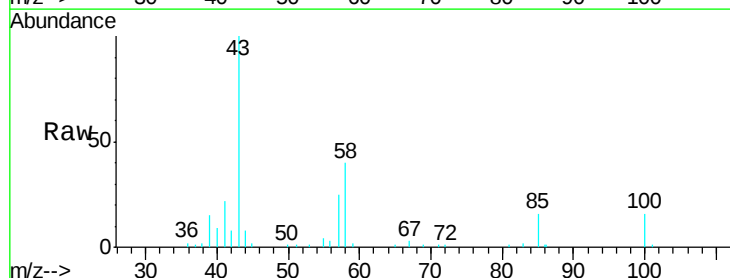
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04 2.5PPB

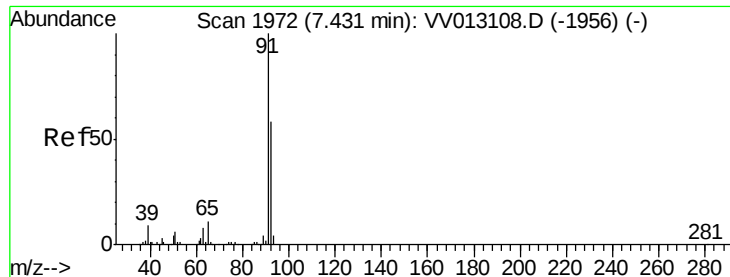
Tgt Ion: 75 Resp: 15468
 Ion Ratio Lower Upper
 75 100
 77 42.0 21.7 40.3#



#40
 4-Methyl-2-pentanone
 Concen: 3.887 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

Tgt Ion: 43 Resp: 26988
 Ion Ratio Lower Upper
 43 100
 58 40.8 32.0 48.0
 100 15.8 12.7 19.1





#42

Toluene

Concen: 2.309 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

Instrument :

MSVOA_V

ClientSampleId :

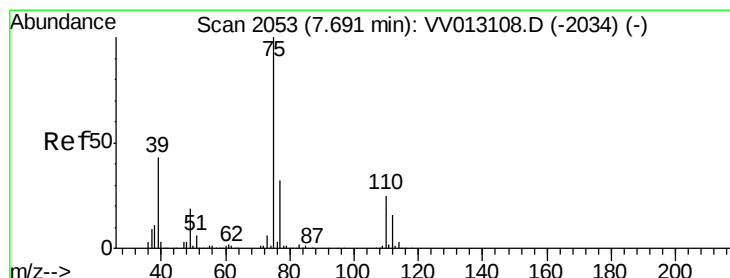
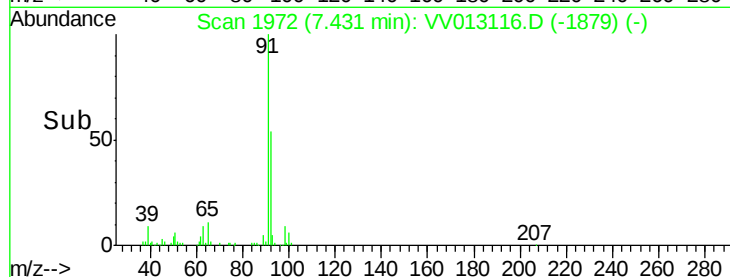
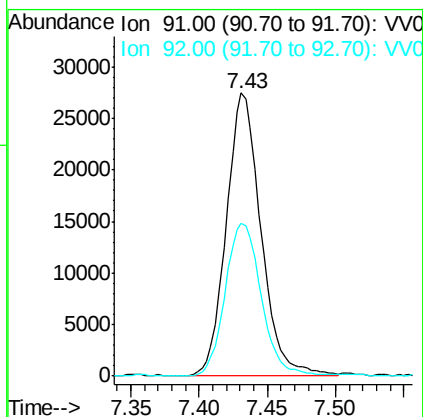
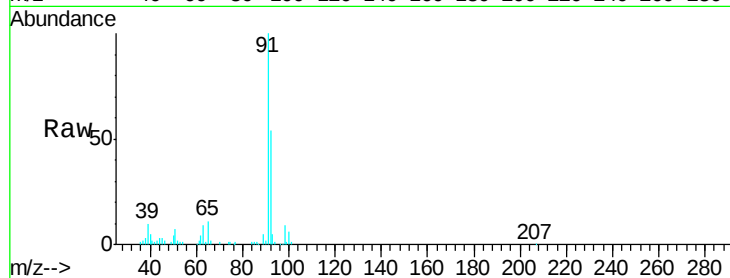
MDL04 2.5PPB

Tgt Ion: 91 Resp: 48689

Ion Ratio Lower Upper

91 100

92 54.1 40.8 75.8



#44

trans-1,3-Dichloropropene

Concen: 2.197 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV013116.D

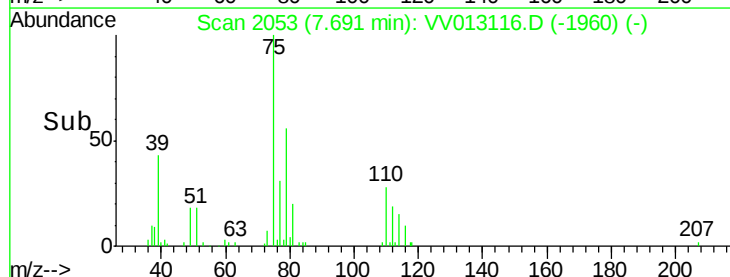
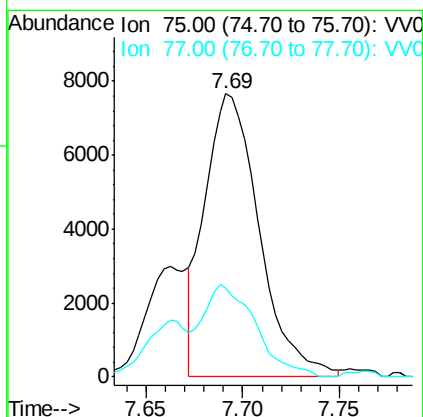
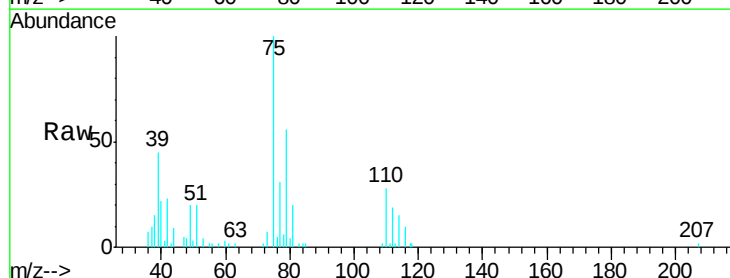
Acq: 11 Oct 2019 21:56

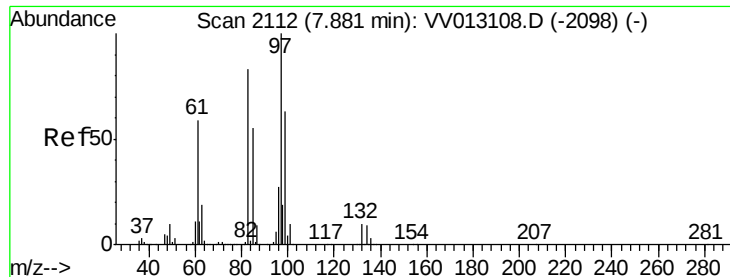
Tgt Ion: 75 Resp: 14943

Ion Ratio Lower Upper

75 100

77 31.5 22.0 41.0

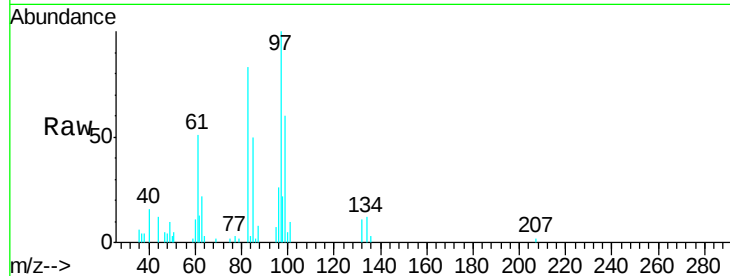




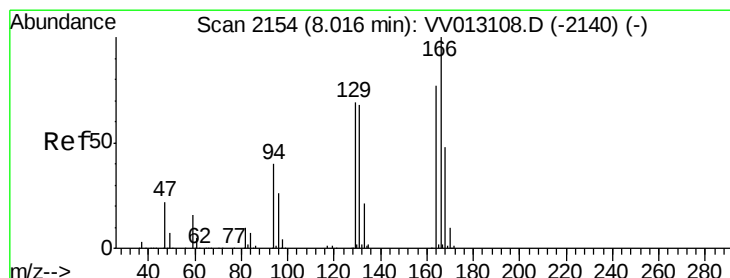
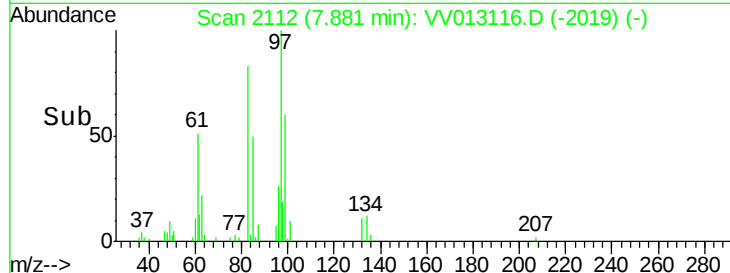
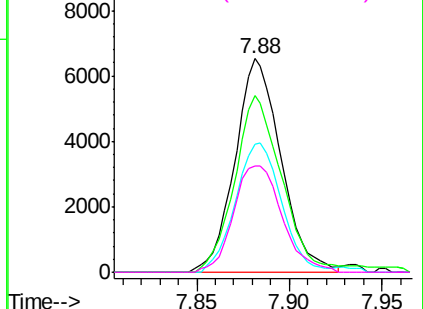
#45
 1,1,2-Trichloroethane
 Concen: 2.231 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04 2.5PPB

Tgt Ion:	97	Resp:	11234
Ion	Ratio	Lower	Upper
97	100		
99	60.0	44.4	82.5
83	82.9	58.2	108.0
85	50.0	38.7	71.9

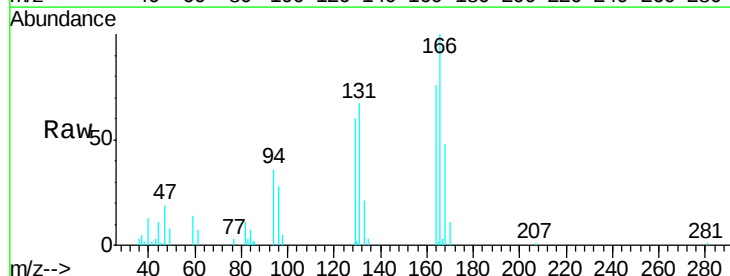


Abundance Ion 97.00 (96.70 to 97.70): VV013108.D (-2098) (-)
 Ion 99.00 (98.70 to 99.70): VV013108.D (-2098) (-)
 Ion 83.00 (82.70 to 83.70): VV013108.D (-2098) (-)
 Ion 85.00 (84.70 to 85.70): VV013108.D (-2098) (-)

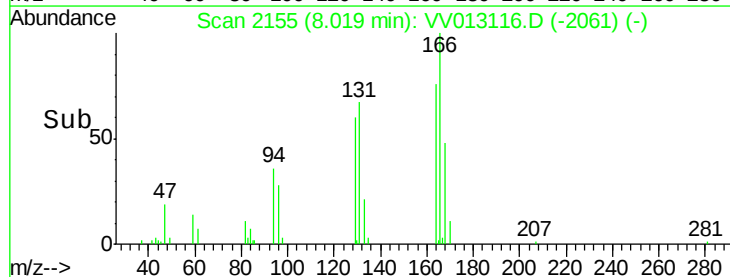
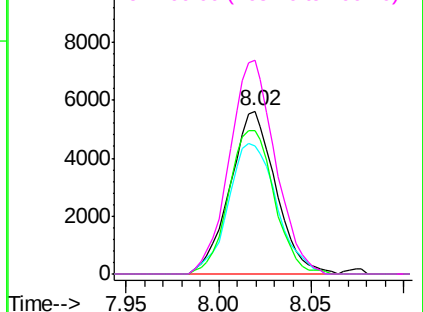


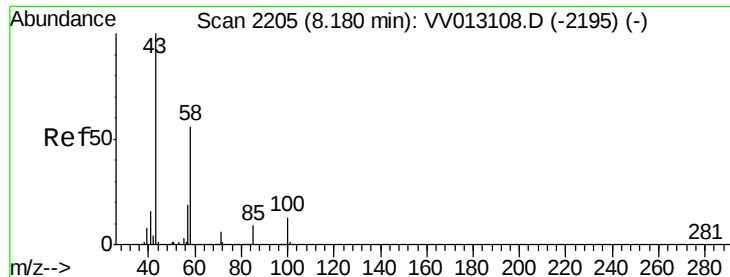
#46
 Tetrachloroethene
 Concen: 2.236 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

Tgt Ion:	164	Resp:	9655
Ion	Ratio	Lower	Upper
164	100		
129	78.3	63.1	117.1
131	87.8	62.4	116.0
166	131.1	91.3	169.6



Abundance Ion 164.00 (163.70 to 164.70): VV013108.D (-2140) (-)
 Ion 129.00 (128.70 to 129.70): VV013108.D (-2140) (-)
 Ion 131.00 (130.70 to 131.70): VV013108.D (-2140) (-)
 Ion 166.00 (165.70 to 166.70): VV013108.D (-2140) (-)

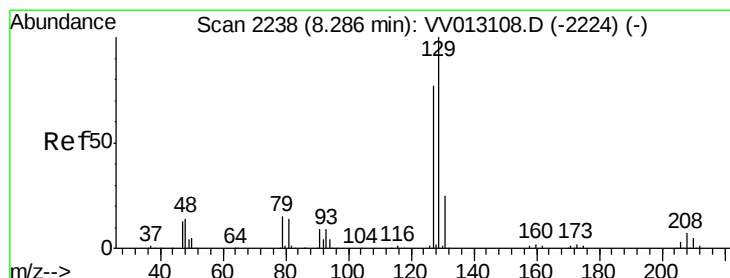
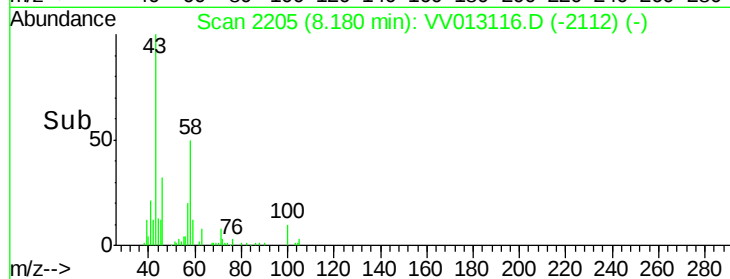
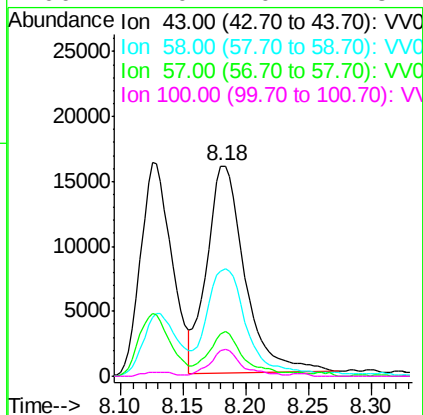
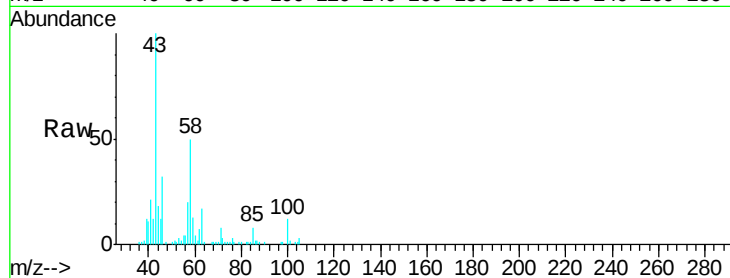




#48
2-Hexanone
Concen: 6.303 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV013116.D
Acq: 11 Oct 2019 21:56

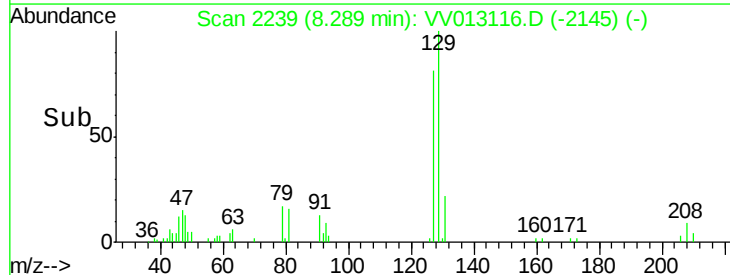
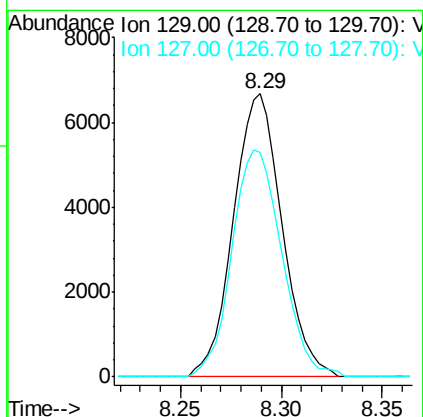
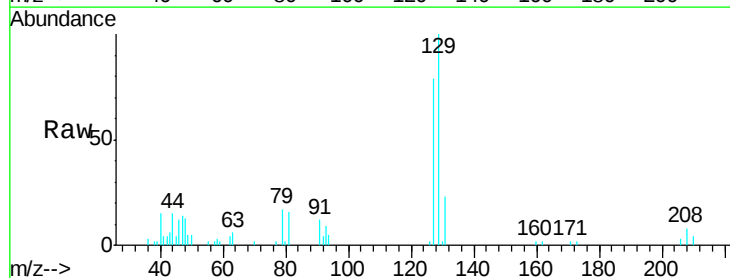
Instrument :
MSVOA_V
ClientSampleId :
MDL04 2.5PPB

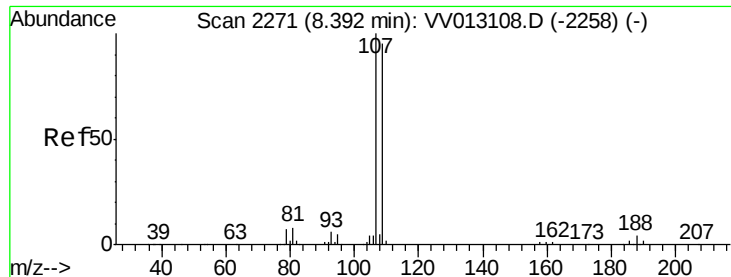
Tgt Ion:	43	Resp:	33840
Ion	Ratio	Lower	Upper
43	100		
58	52.2	44.9	67.3
57	19.6	15.0	22.6
100	11.0	10.2	15.2



#49
Dibromochloromethane
Concen: 2.056 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV013116.D
Acq: 11 Oct 2019 21:56

Tgt Ion:	129	Resp:	11285
Ion	Ratio	Lower	Upper
129	100		
127	79.2	54.0	100.4

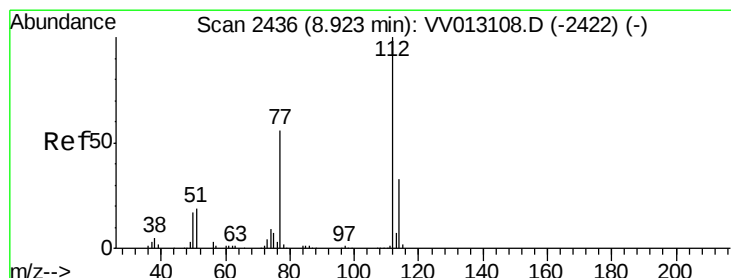
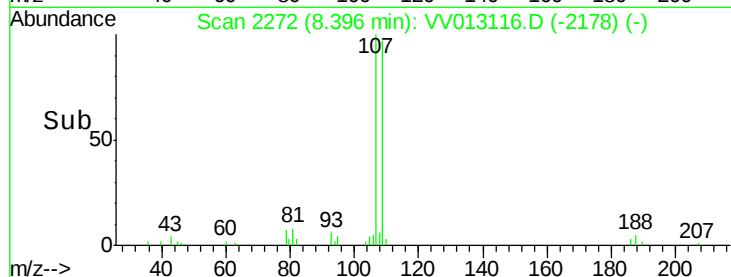
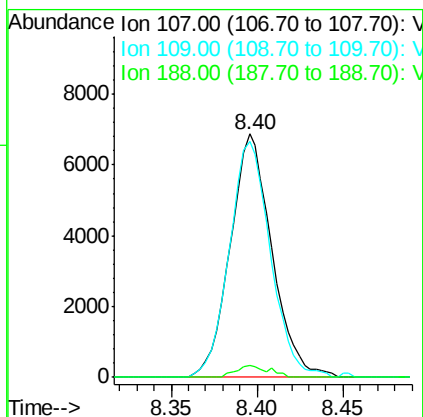
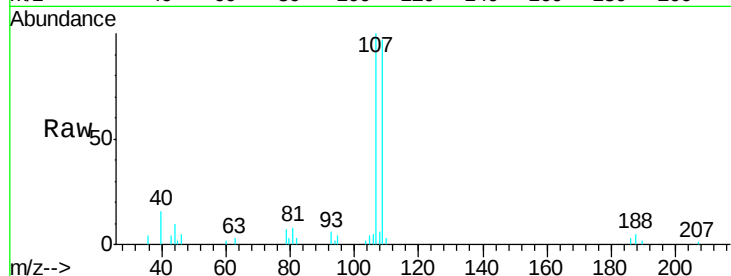




#50
1,2-Dibromoethane
Concen: 2.199 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV013116.D
Acq: 11 Oct 2019 21:56

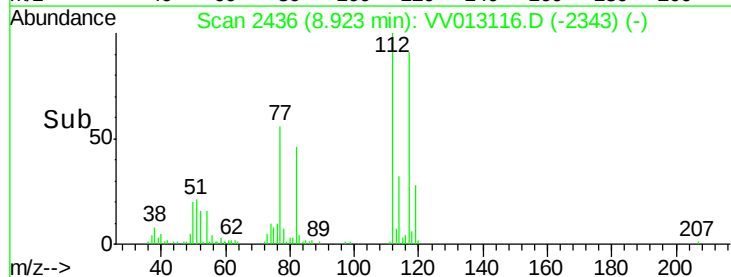
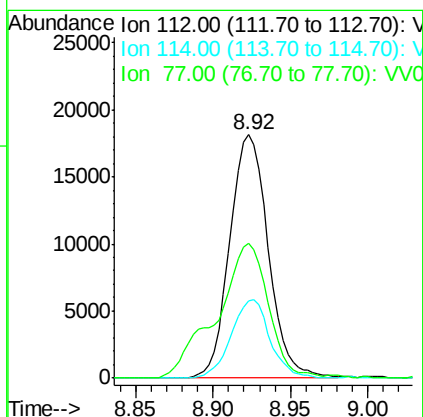
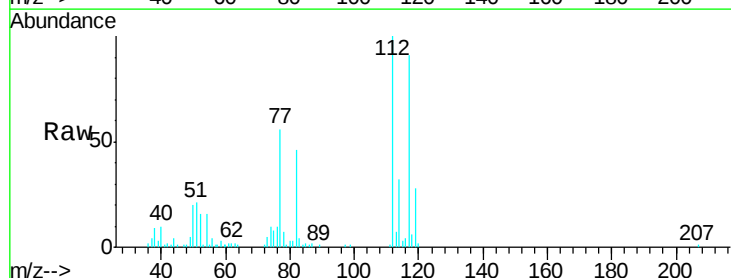
Instrument :
MSVOA_V
ClientSampleId :
MDL04 2.5PPB

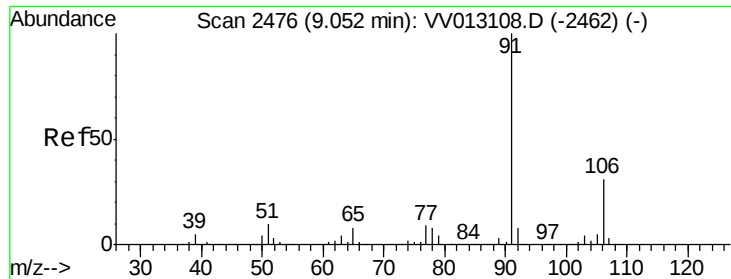
Tgt Ion:107 Resp: 11574
Ion Ratio Lower Upper
107 100
109 96.8 66.6 123.6
188 4.8 3.4 5.2



#51
Chlorobenzene
Concen: 2.274 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VV013116.D
Acq: 11 Oct 2019 21:56

Tgt Ion:112 Resp: 31452
Ion Ratio Lower Upper
112 100
114 31.5 22.8 42.4
77 55.6 45.1 67.7





#52

Ethylbenzene

Concen: 1.957 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

Instrument :

MSVOA_V

ClientSampleId :

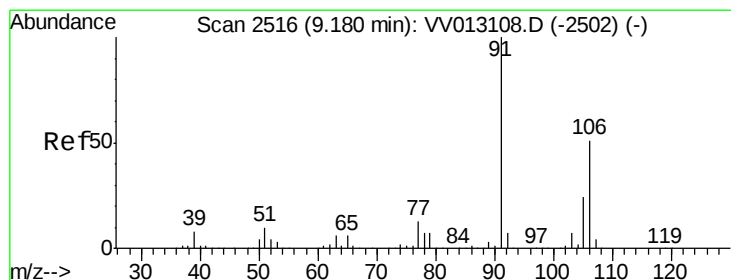
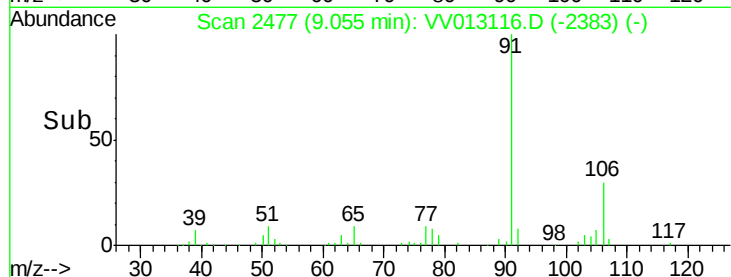
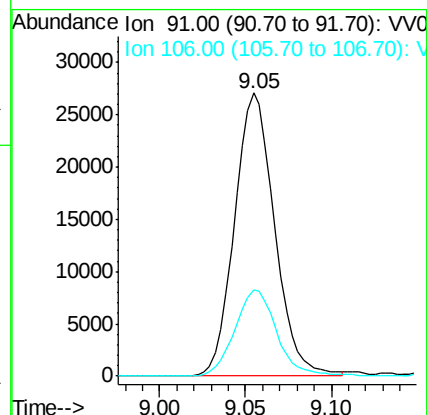
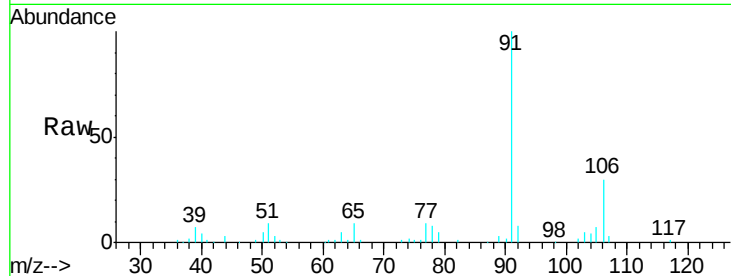
MDL04 2.5PPB

Tgt Ion: 91 Resp: 44088

Ion Ratio Lower Upper

91 100

106 30.3 21.8 40.4



#53

m,p-Xylene

Concen: 1.902 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV013116.D

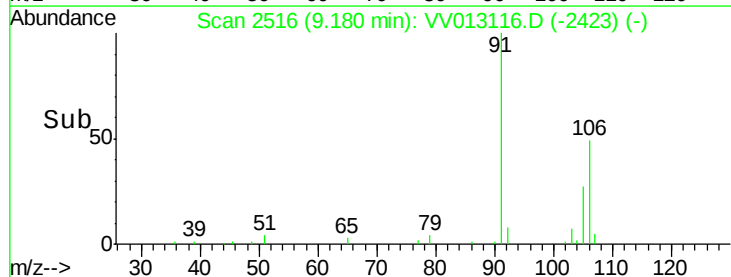
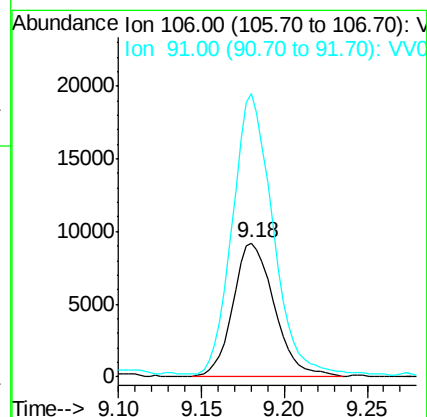
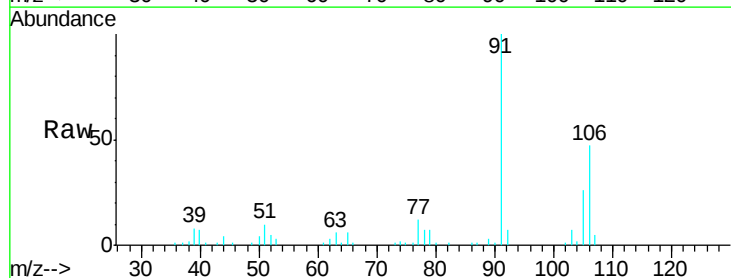
Acq: 11 Oct 2019 21:56

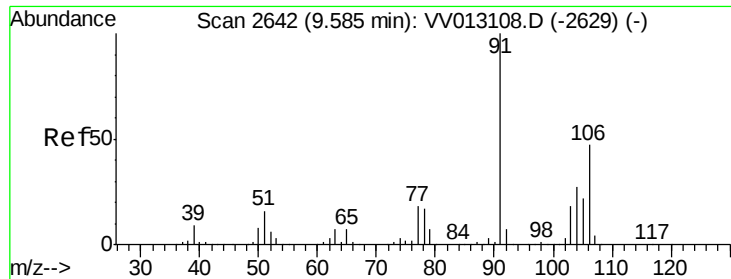
Tgt Ion: 106 Resp: 16114

Ion Ratio Lower Upper

106 100

91 211.6 137.8 255.8

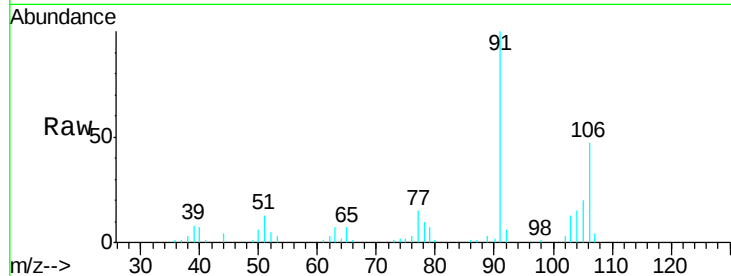




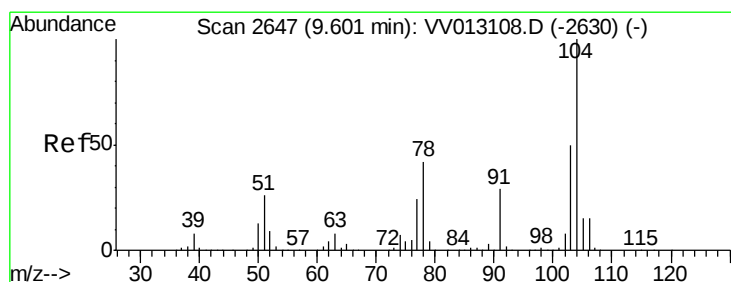
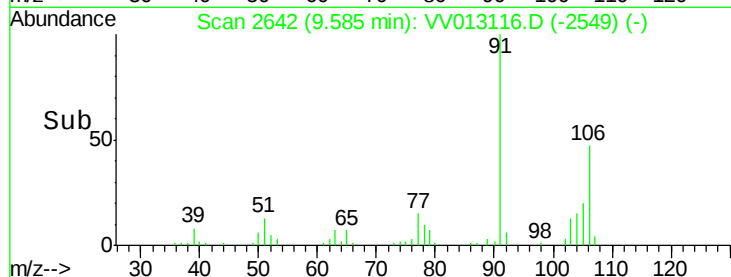
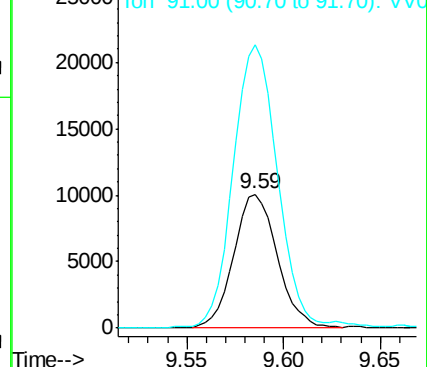
#54
o-xylene
Concen: 1.864 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV013116.D
Acq: 11 Oct 2019 21:56

Instrument :
MSVOA_V
ClientSampleId :
MDL04 2.5PPB

Tgt Ion:106 Resp: 15825
Ion Ratio Lower Upper
106 100
91 211.6 147.6 274.2

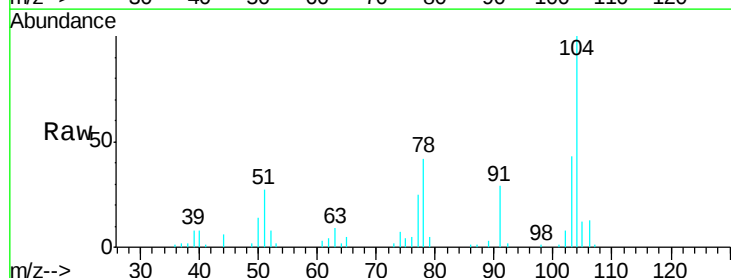


Abundance Ion 106.00 (105.70 to 106.70): V

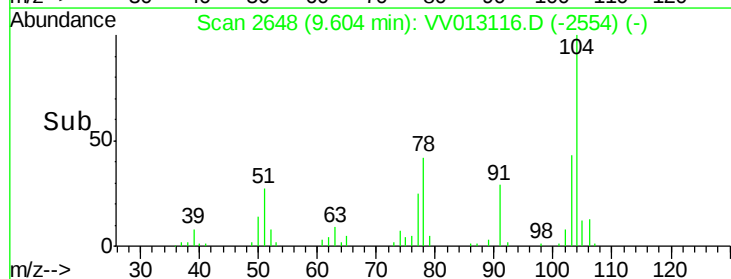
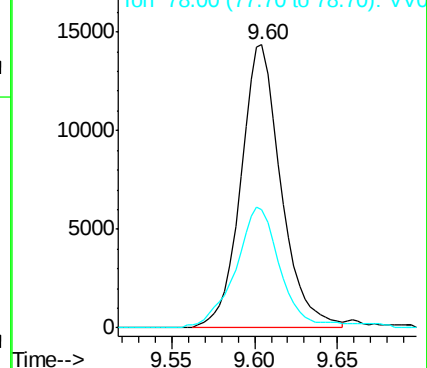


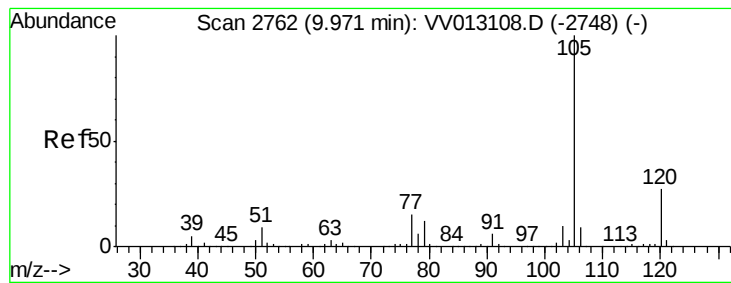
#55
Styrene
Concen: 1.735 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV013116.D
Acq: 11 Oct 2019 21:56

Tgt Ion:104 Resp: 24195
Ion Ratio Lower Upper
104 100
78 41.6 29.1 54.1



Abundance Ion 104.00 (103.70 to 104.70): V





#56

Isopropylbenzene

Concen: 1.779 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

Instrument :

MSVOA_V

ClientSampleId :

MDL04 2.5PPB

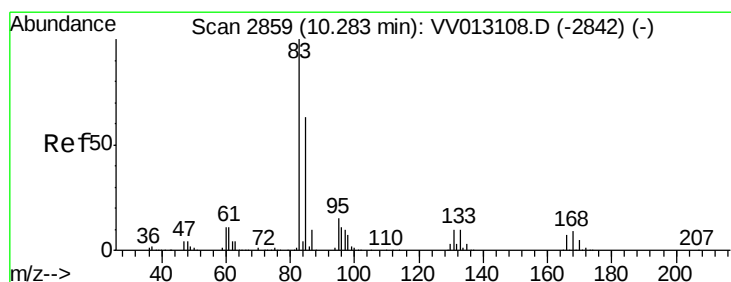
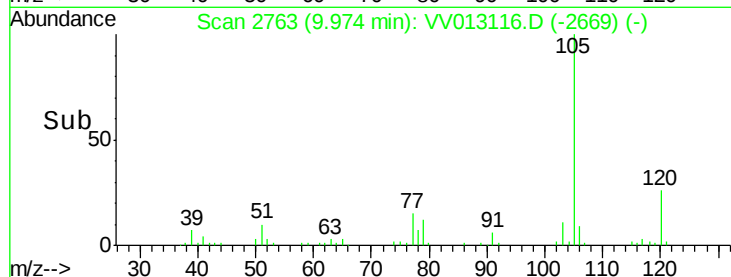
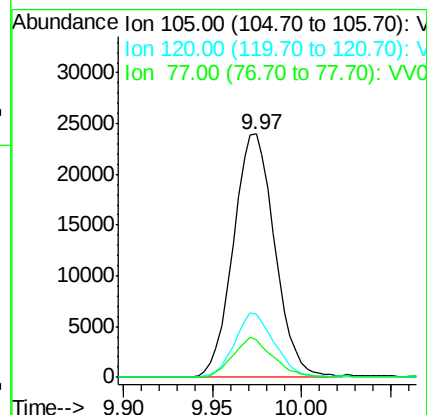
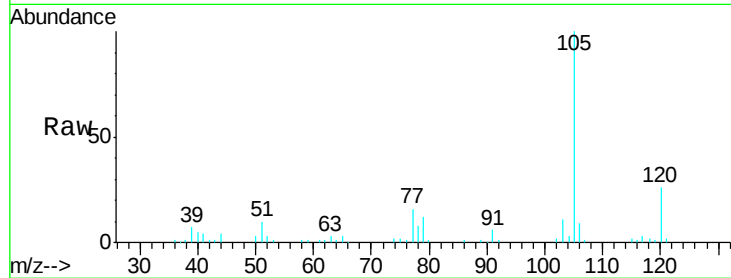
Tgt Ion: 105 Resp: 38791

Ion Ratio Lower Upper

105 100

120 25.2 21.4 32.2

77 15.6 12.1 18.1



#58

1,1,2,2-Tetrachloroethane

Concen: 2.546 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

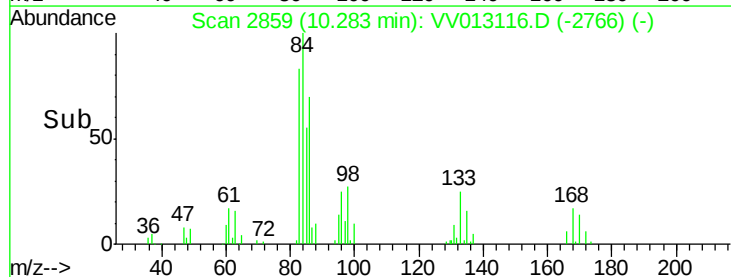
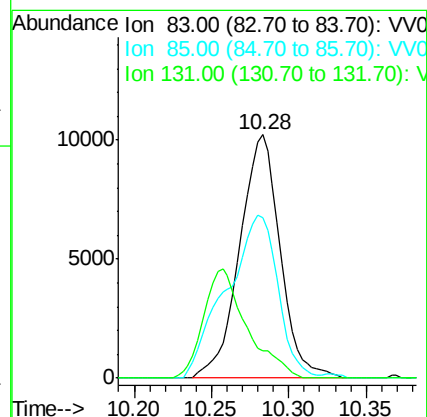
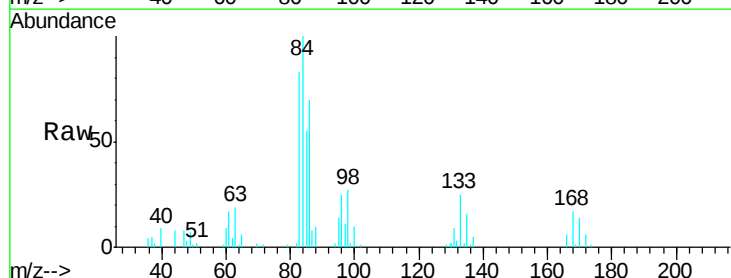
Tgt Ion: 83 Resp: 18641

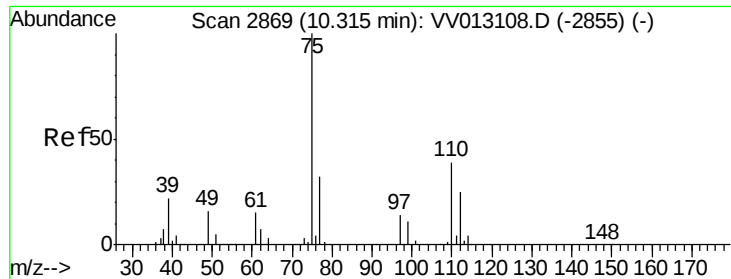
Ion Ratio Lower Upper

83 100

85 66.1 44.3 82.3

131 11.3 8.1 12.1





#59

1,2,3-Trichloropropane

Concen: 2.243 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

Instrument :

MSVOA_V

ClientSampleId :

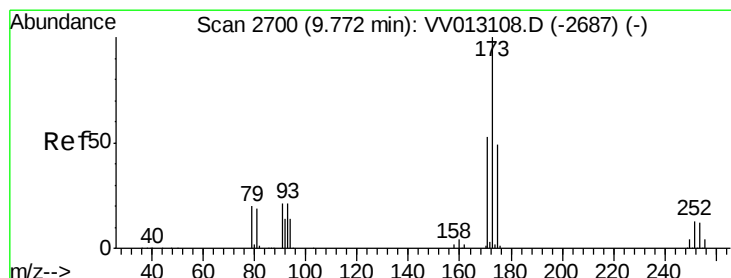
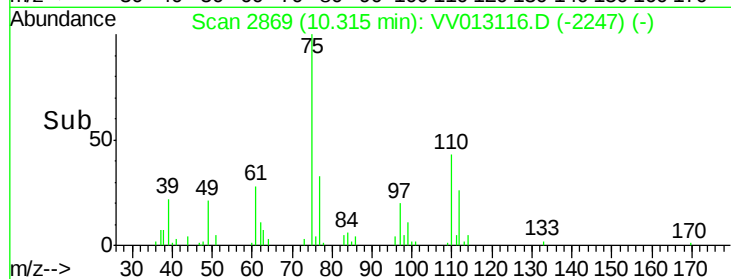
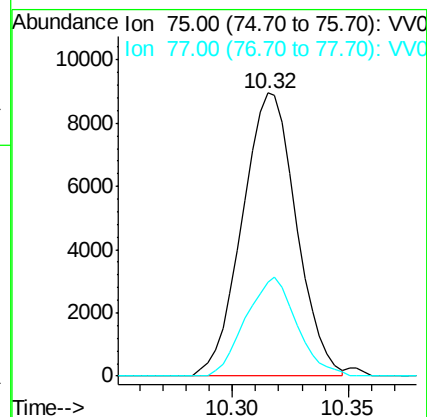
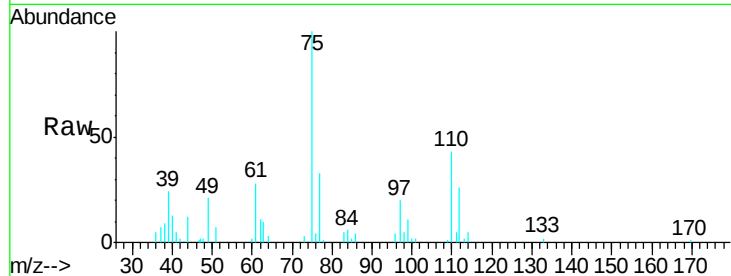
MDL04 2.5PPB

Tgt Ion: 75 Resp: 14484

Ion Ratio Lower Upper

75 100

77 32.9 25.7 38.5



#61

Bromoform

Concen: 2.321 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

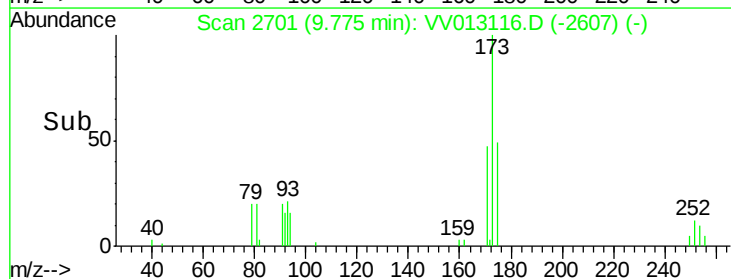
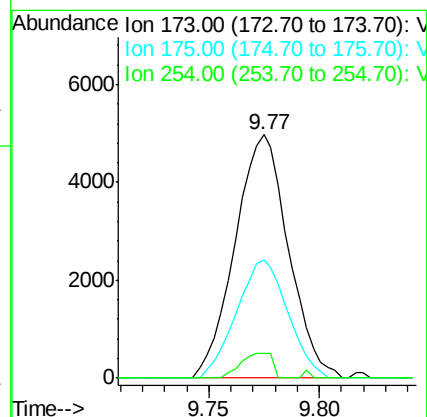
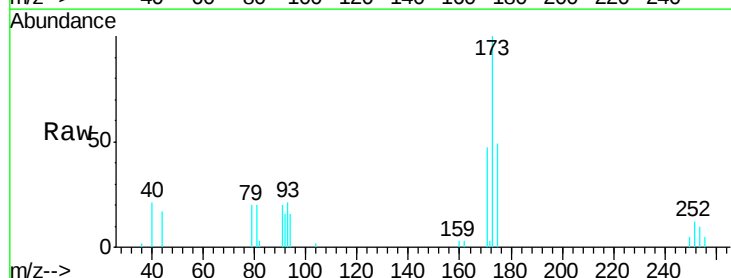
Tgt Ion: 173 Resp: 8331

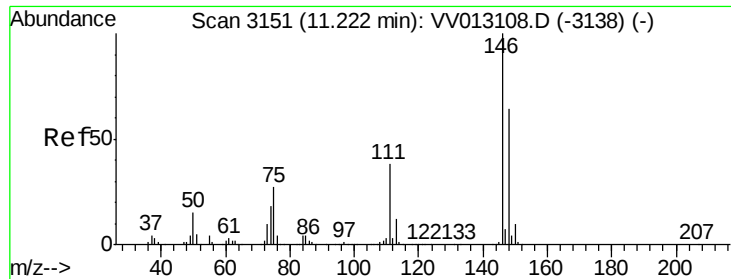
Ion Ratio Lower Upper

173 100

175 46.8 38.8 58.2

254 6.0 9.6 14.4#

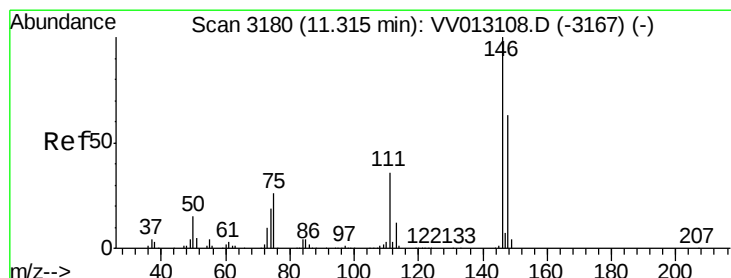
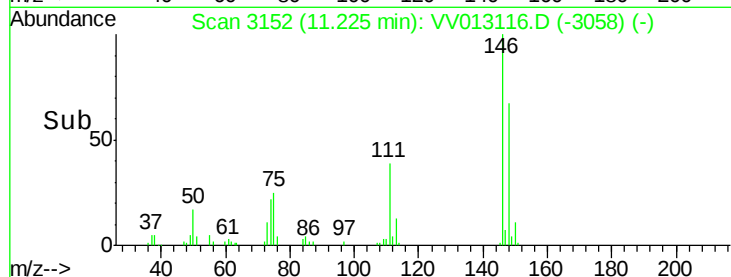
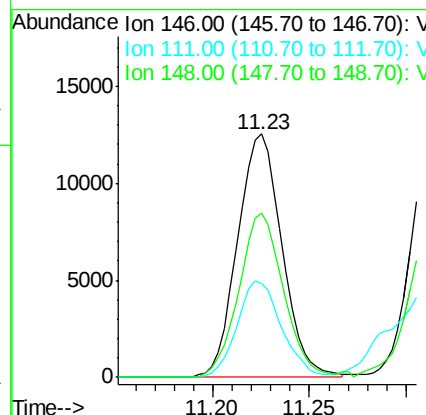
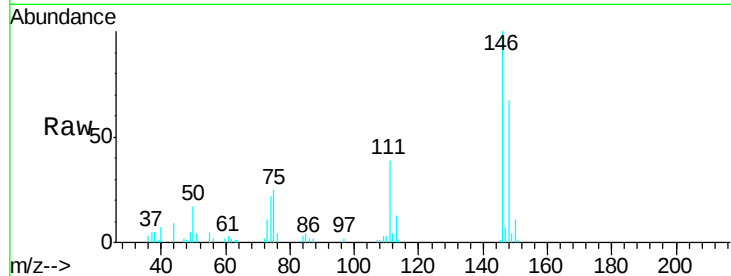




#62
 1,3-Dichlorobenzene
 Concen: 2.173 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

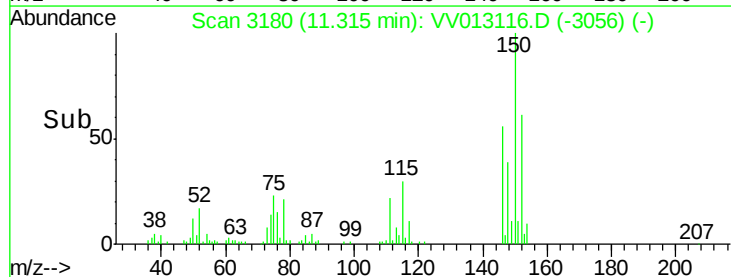
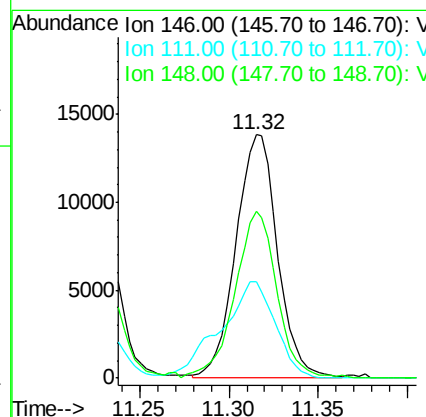
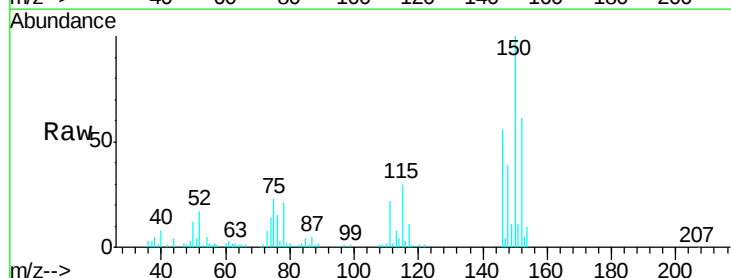
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04 2.5PPB

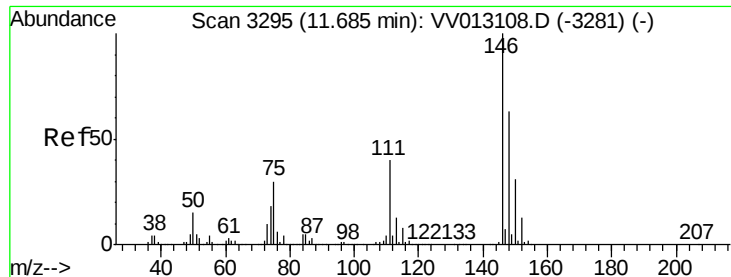
Tgt Ion:146 Resp: 20041
 Ion Ratio Lower Upper
 146 100
 111 38.8 26.6 49.4
 148 67.2 44.6 82.8



#63
 1,4-Dichlorobenzene
 Concen: 2.439 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

Tgt Ion:146 Resp: 22591
 Ion Ratio Lower Upper
 146 100
 111 39.3 25.4 47.2
 148 68.5 44.2 82.2

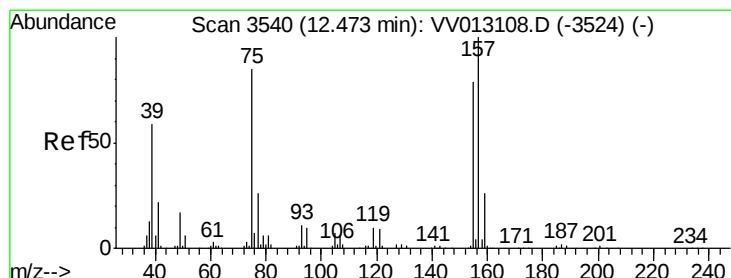
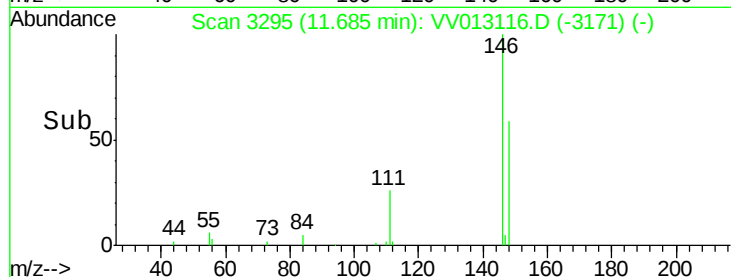
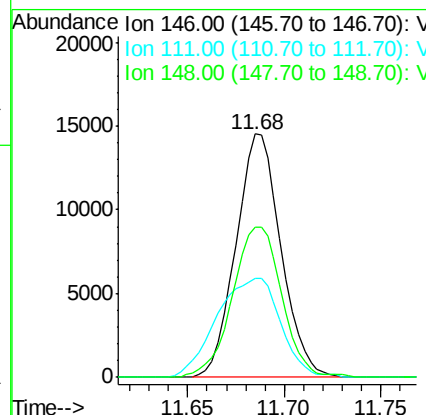
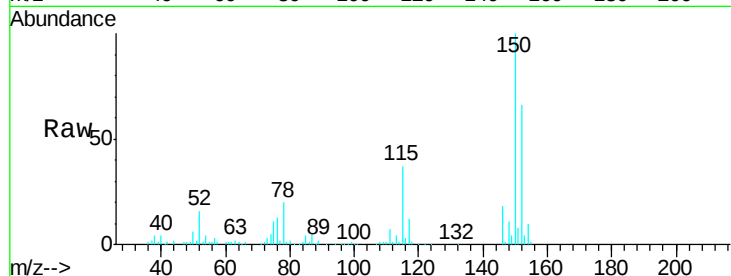




#65
 1,2-Dichlorobenzene
 Concen: 2.502 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

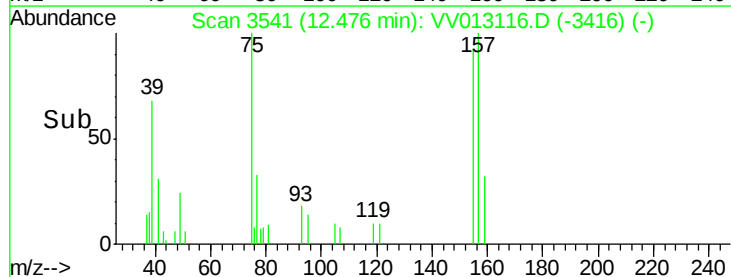
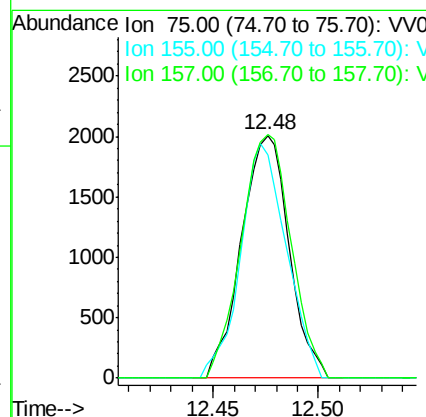
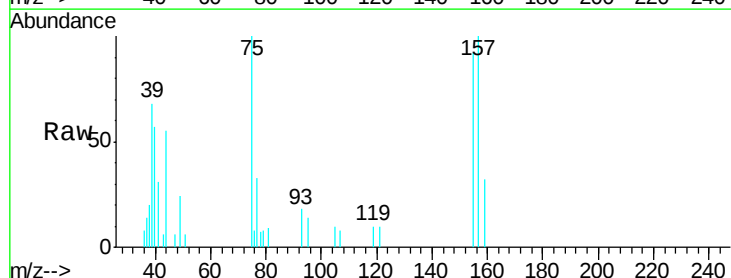
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04 2.5PPB

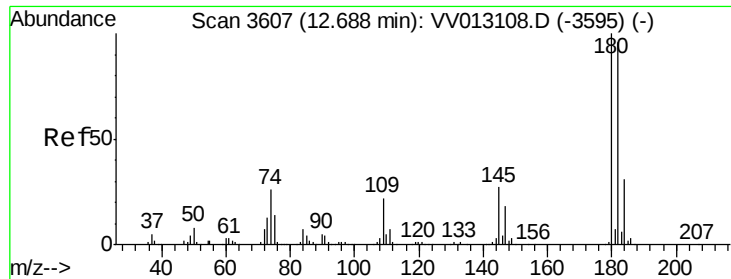
Tgt Ion: 146 Resp: 23491
 Ion Ratio Lower Upper
 146 100
 111 40.8 32.2 48.2
 148 61.8 50.6 76.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.301 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

Tgt Ion: 75 Resp: 3142
 Ion Ratio Lower Upper
 75 100
 155 92.0 74.6 111.8
 157 100.2 94.2 141.4

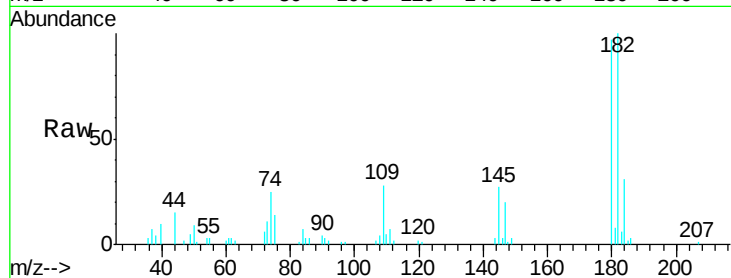




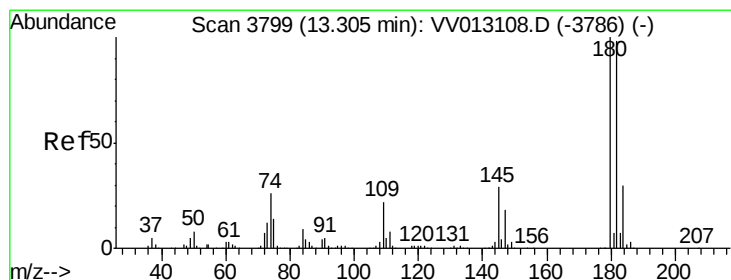
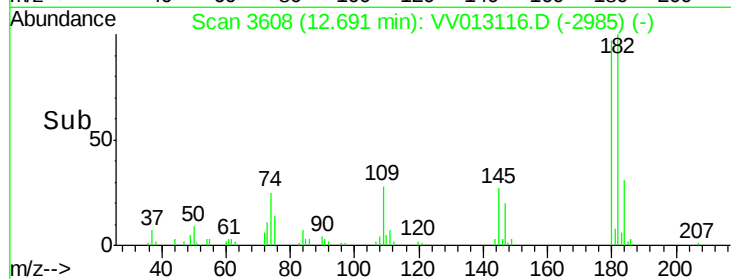
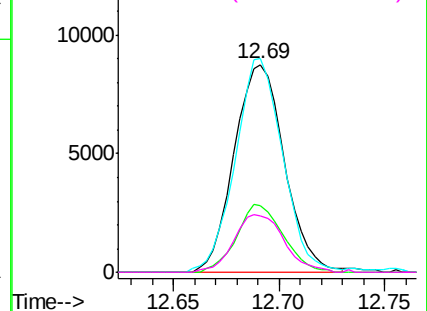
#67
 1,3,5-Trichlorobenzene
 Concen: 2.206 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04 2.5PPB

Tgt Ion:180 Resp: 14507
 Ion Ratio Lower Upper
 180 100
 182 96.9 76.7 115.1
 184 30.4 24.3 36.5
 145 28.0 21.7 32.5

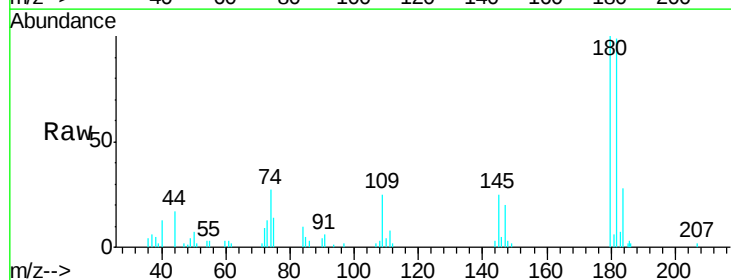


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

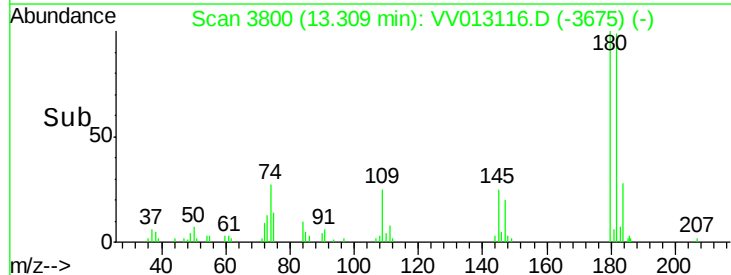
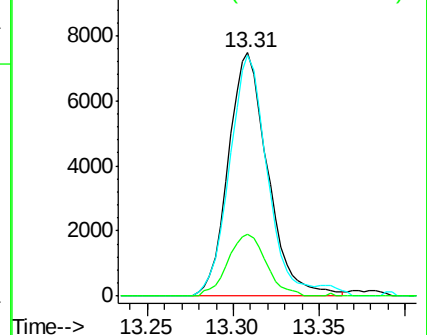


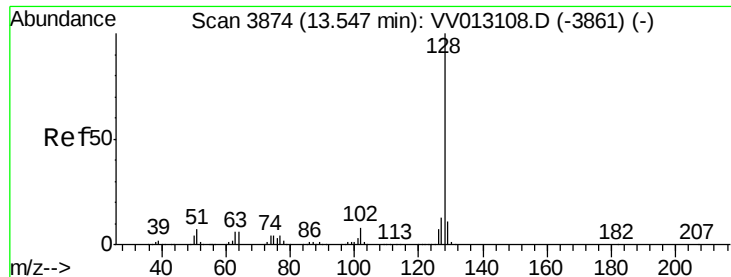
#68
 1,2,4-trichlorobenzene
 Concen: 2.116 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV013116.D
 Acq: 11 Oct 2019 21:56

Tgt Ion:180 Resp: 11935
 Ion Ratio Lower Upper
 180 100
 182 94.0 77.4 116.0
 145 24.8 22.7 34.1



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 1.555 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

Instrument :

MSVOA_V

ClientSampleId :

MDL04 2.5PPB

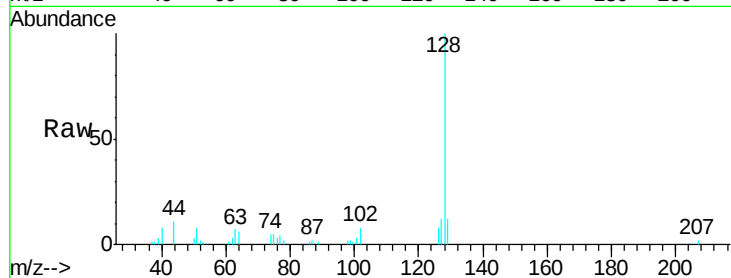
Tgt Ion:128 Resp: 24163

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

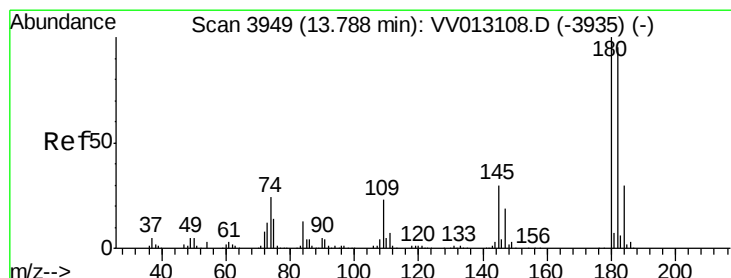
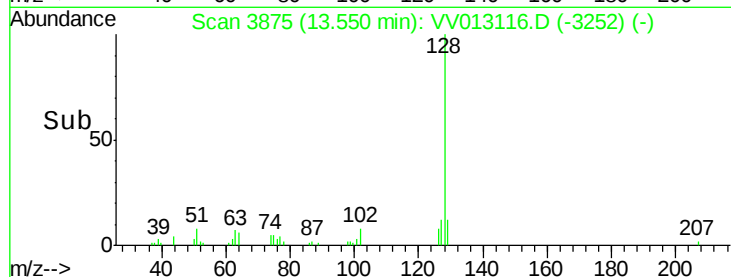
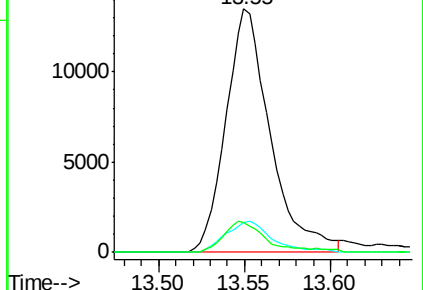
129 11.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1.986 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV013116.D

Acq: 11 Oct 2019 21:56

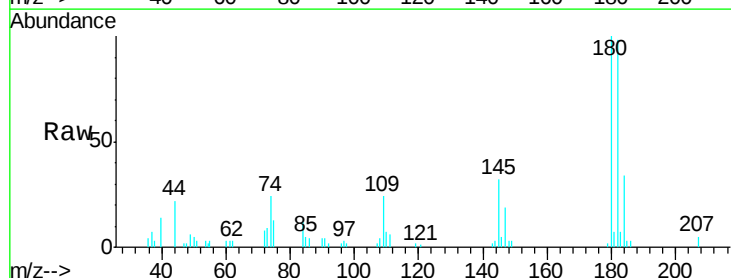
Tgt Ion:180 Resp: 11985

Ion Ratio Lower Upper

180 100

182 95.7 76.9 115.3

145 32.6 23.8 35.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

