

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080719\
 Data File : VV012123.D
 Acq On : 07 Aug 2019 13:20
 Operator : SY/MD
 Sample : MDL03
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Quant Time: Aug 08 01:14:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM080619W.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 08 01:11:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	265448	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	243064	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	118439	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	56702	39.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.16%
7) Chloroethane-d5	1.58	69	39408	38.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	76.52%
11) 1,1-Dichloroethene-d2	2.13	63	77384	30.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	61.52%
21) 2-Butanone-d5	3.92	46	102953	97.38	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.38%
24) Chloroform-d	4.40	84	164146	45.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.18%
26) 1,2-Dichloroethane-d4	5.08	65	113488	48.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.04%
32) Benzene-d6	5.10	84	327153	46.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.54%
36) 1,2-Dichloropropane-d6	6.12	67	97399	48.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.14%
41) Toluene-d8	7.36	98	320839	47.57	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.14%
43) trans-1,3-Dichloropropene-	7.66	79	56054	48.66	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.32%
47) 2-Hexanone-d5	8.13	63	91684	108.96	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.96%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	142669	49.96	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.92%
66) 1,2-Dichlorobenzene-d4	11.67	152	140324	50.38	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.76%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	4706	2.510 ug/L	96
3) Chloromethane	1.25	50	3810	2.862 ug/L	99
5) Vinyl chloride	1.33	62	2946	2.293 ug/L #	69
6) Bromomethane	1.53	94	1767	2.369 ug/L	87
8) Chloroethane	1.60	64	1423	2.114 ug/L	84
9) Trichlorofluoromethane	1.77	101	4381	2.097 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	3217	3.141 ug/L #	75
12) 1,1-Dichloroethene	2.14	96	2794	2.897 ug/L #	1
13) Acetone	2.19	43	2998	4.159 ug/L	96
14) Carbon disulfide	2.32	76	7126	2.186 ug/L	99
15) Methyl Acetate	2.46	43	2955	2.343 ug/L	99
16) Methylene chloride	2.54	84	3182	2.175 ug/L	96
17) trans-1,2-Dichloroethene	2.79	96	2956	2.171 ug/L	91
18) Methyl tert-butyl Ether	2.80	73	10911	2.332 ug/L	99
19) 1,1-Dichloroethane	3.23	63	5819	2.343 ug/L	90
20) cis-1,2-Dichloroethene	3.96	96	3579	2.231 ug/L	87
22) 2-Butanone	4.02	43	3548	3.819 ug/L	79

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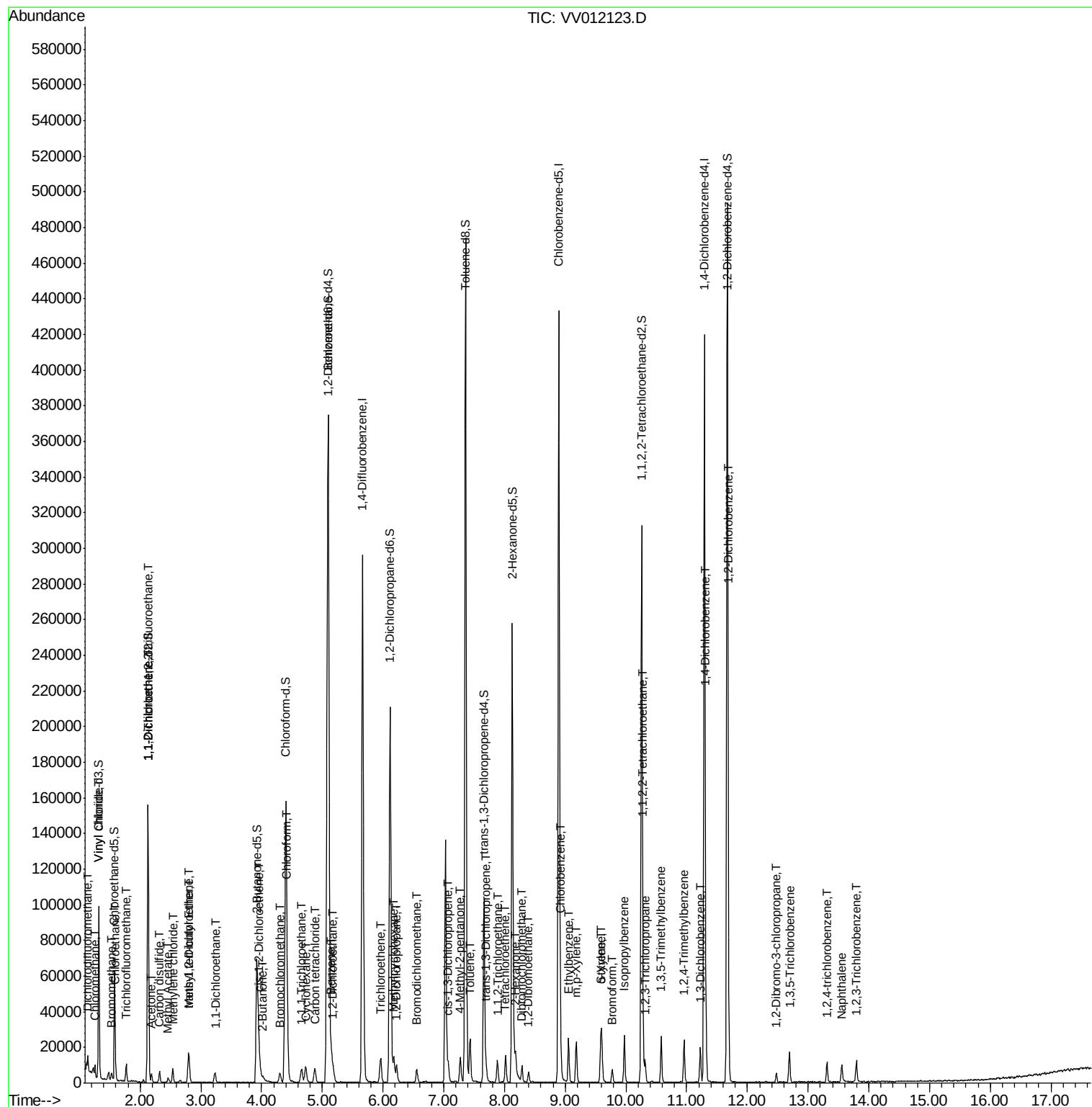
23) Bromochloromethane	4.30	128	2028	2.299	ug/L	92
25) Chloroform	4.43	83	8459	3.005	ug/L	93
27) 1,2-Dichloroethane	5.18	62	5929	2.710	ug/L	96
29) Cyclohexane	4.73	56	5044	2.482	ug/L #	92
30) 1,1,1-Trichloroethane	4.66	97	6037	2.338	ug/L	93
31) Carbon tetrachloride	4.87	117	6108	2.550	ug/L	91
33) Benzene	5.15	78	14588	2.607	ug/L	100
34) Trichloroethene	5.96	95	4058	2.609	ug/L	92
35) Methylcyclohexane	6.17	83	6277	2.712	ug/L #	83
37) 1,2-Dichloropropane	6.22	63	3496	2.562	ug/L #	84
38) Bromodichloromethane	6.55	83	5292	2.465	ug/L	96
39) cis-1,3-Dichloropropene	7.07	75	6006	2.496	ug/L	95
40) 4-Methyl-2-pentanone	7.27	43	9307	5.299	ug/L	97
42) Toluene	7.43	91	17063	2.745	ug/L	96
44) trans-1,3-Dichloropropene	7.69	75	5142	2.264	ug/L	95
45) 1,1,2-Trichloroethane	7.88	97	3677	2.499	ug/L	93
46) Tetrachloroethene	8.02	164	3661	2.527	ug/L	96
48) 2-Hexanone	8.18	43	7528	5.685	ug/L #	89
49) Dibromochloromethane	8.29	129	4679	2.451	ug/L	92
50) 1,2-Dibromoethane	8.40	107	4392	2.700	ug/L #	90
51) Chlorobenzene	8.93	112	10778	2.571	ug/L	96
52) Ethylbenzene	9.05	91	16721	2.397	ug/L	98
53) m,p-Xylene	9.18	106	6788	2.522	ug/L	92
54) o-Xylene	9.59	106	6787	2.542	ug/L	98
55) Styrene	9.60	104	10531	2.341	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.28	83	6834	3.021	ug/L #	93
59) Bromoform	9.77	173	3876	2.790	ug/L #	74
60) Isopropylbenzene	9.97	105	17170	2.648	ug/L	98
61) 1,2,3-Trichloropropane	10.32	75	4580	2.848	ug/L	93
62) 1,3,5-Trimethylbenzene	10.58	105	14578	2.601	ug/L	99
63) 1,2,4-Trimethylbenzene	10.96	105	13829	2.500	ug/L	98
64) 1,3-Dichlorobenzene	11.23	146	8817	2.695	ug/L	94
65) 1,4-Dichlorobenzene	11.32	146	8438	2.552	ug/L	92
67) 1,2-Dichlorobenzene	11.69	146	9301	2.787	ug/L	93
68) 1,2-Dibromo-3-chloropropan	12.48	75	1450	2.736	ug/L	86
69) 1,3,5-Trichlorobenzene	12.69	180	6134	2.313	ug/L	95
70) 1,2,4-trichlorobenzene	13.31	180	4418	1.921	ug/L	99
71) Naphthalene	13.55	128	9053	1.553	ug/L	99
72) 1,2,3-Trichlorobenzene	13.79	180	4699	2.031	ug/L	99

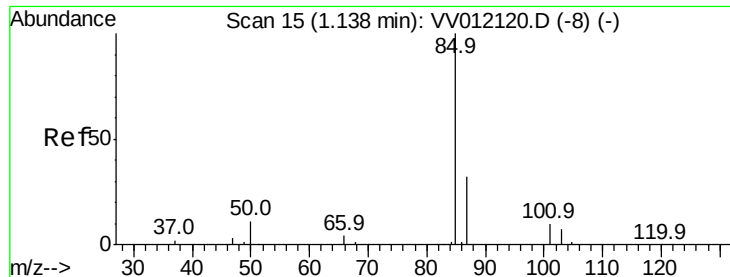
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.510 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampleId :

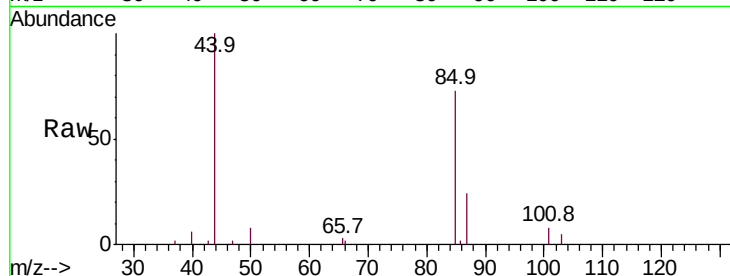
MDL03

Tot Ion: 85 Resp: 4706

Ion Ratio Lower Upper

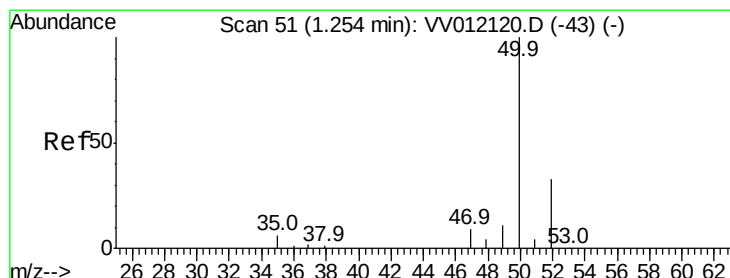
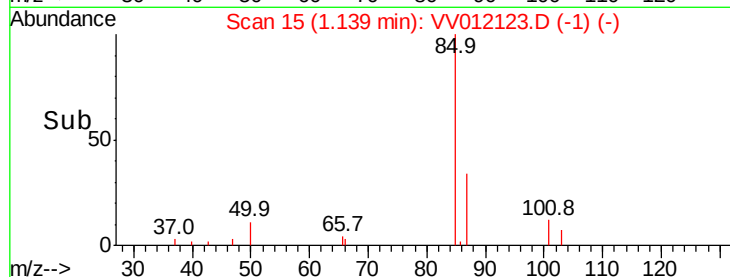
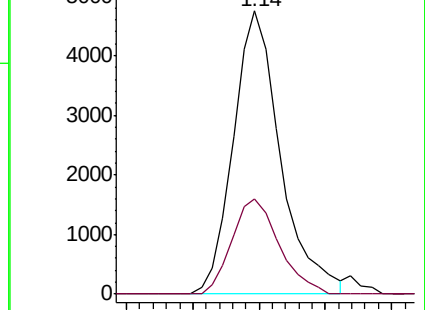
85 100

87 33.7 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV012123.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV012123.D (-1) (-)



#3

Chloromethane

Concen: 2.862 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012123.D

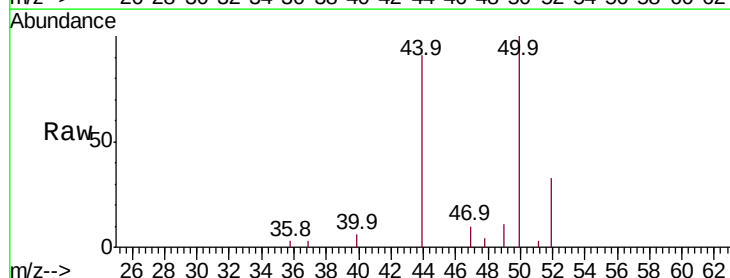
Acq: 07 Aug 2019 13:20

Tgt Ion: 50 Resp: 3810

Ion Ratio Lower Upper

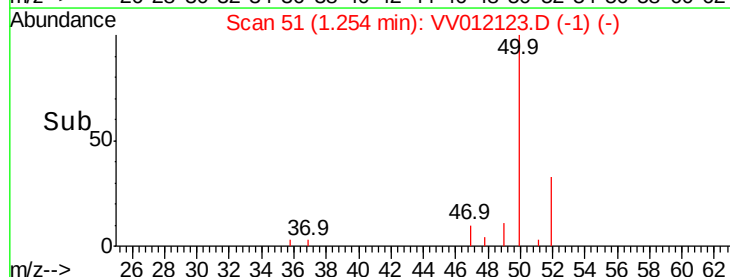
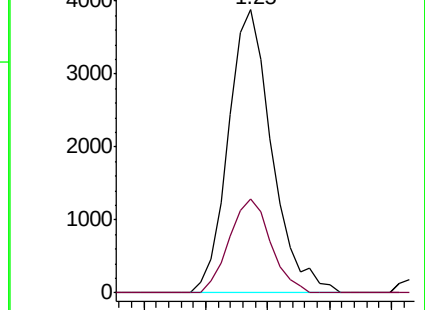
50 100

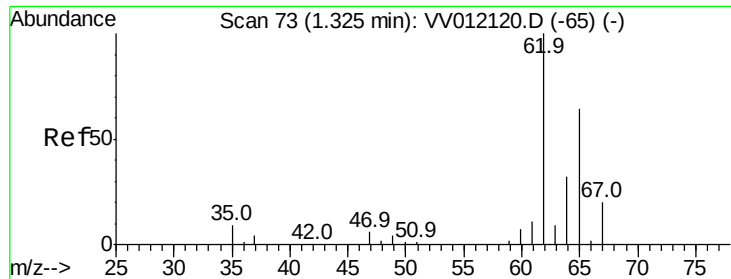
52 33.3 23.9 44.3



Abundance Ion 50.00 (49.70 to 50.70): VV012123.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV012123.D (-1) (-)





#5

Vinyl chloride

Concen: 2.293 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampled :

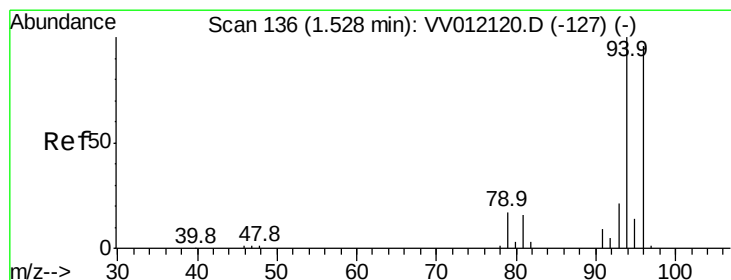
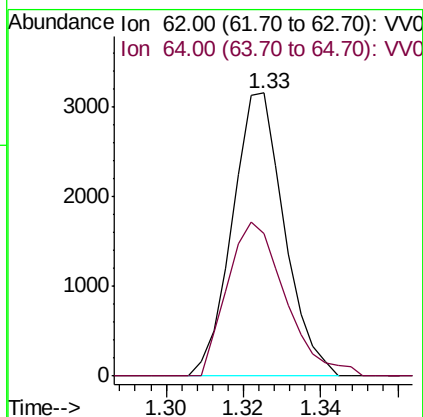
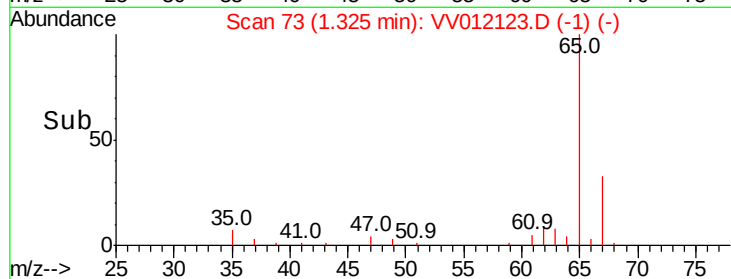
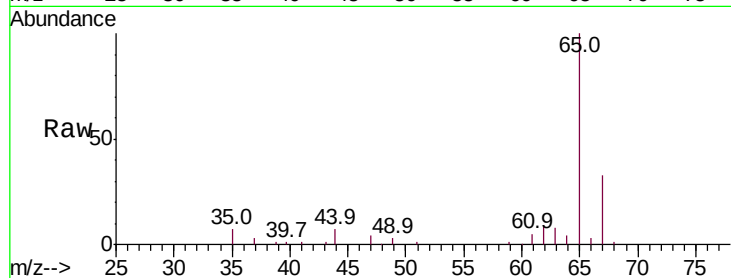
MDL03

Tot Ion: 62 Resp: 2946

Ion Ratio Lower Upper

62 100

64 50.5 23.0 42.8#



#6

Bromomethane

Concen: 2.369 ug/L

RT: 1.53 min Scan# 136

Delta R.T. 0.00 min

Lab File: VV012123.D

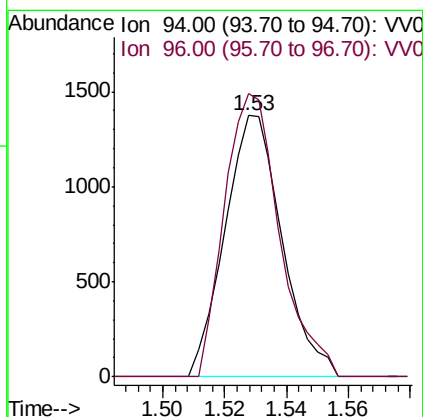
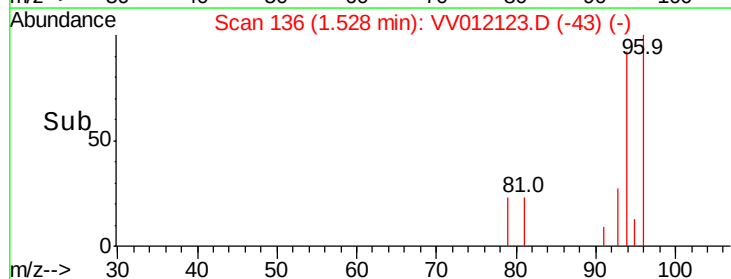
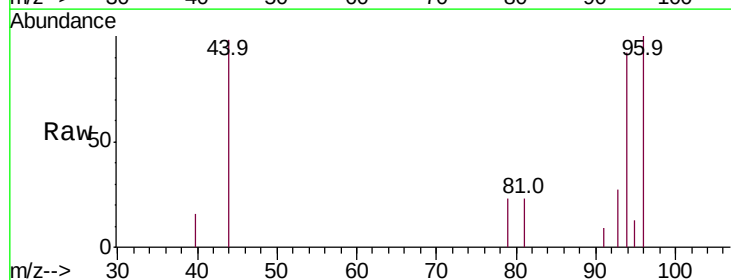
Acq: 07 Aug 2019 13:20

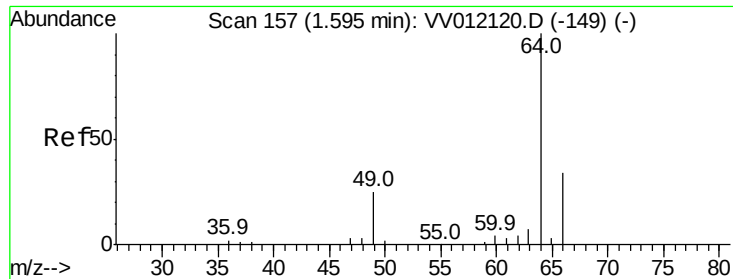
Tgt Ion: 94 Resp: 1767

Ion Ratio Lower Upper

94 100

96 108.4 66.8 124.0





#8

Chloroethane

Concen: 2.114 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

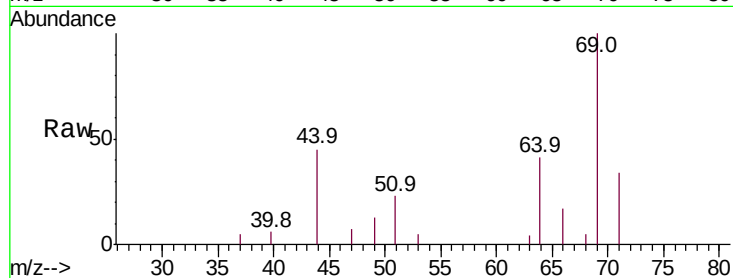
Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion: 64 Resp: 1423

Ion Ratio Lower Upper

64 100

66 41.3 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VV012120.D (-149) (-)

Ion 66.00 (65.70 to 66.70): VV012120.D (-149) (-)

1.60

1200

1000

800

600

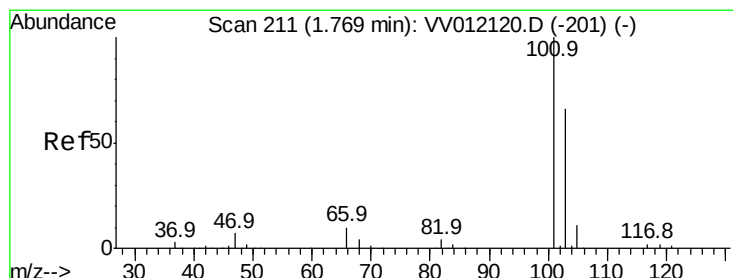
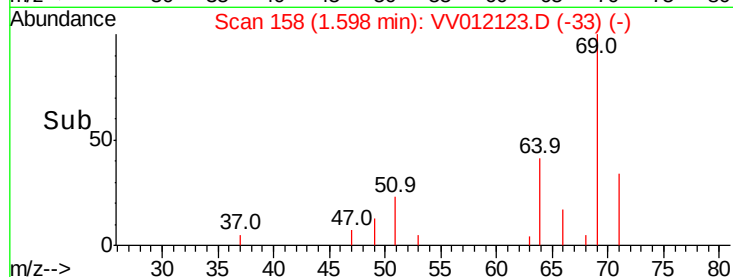
400

200

0

1.56 1.58 1.60 1.62

Time-->



#9

Trichlorofluoromethane

Concen: 2.097 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012123.D

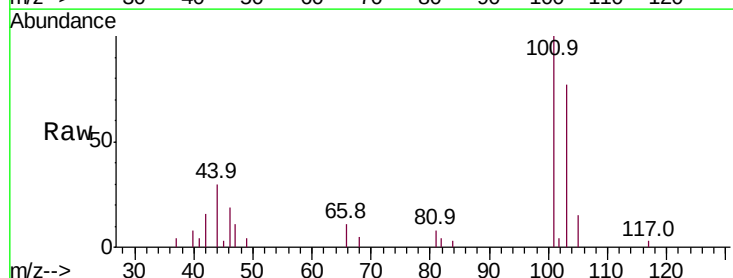
Acq: 07 Aug 2019 13:20

Tgt Ion:101 Resp: 4381

Ion Ratio Lower Upper

101 100

103 70.1 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VV012120.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV012120.D (-201) (-)

1.77

3000

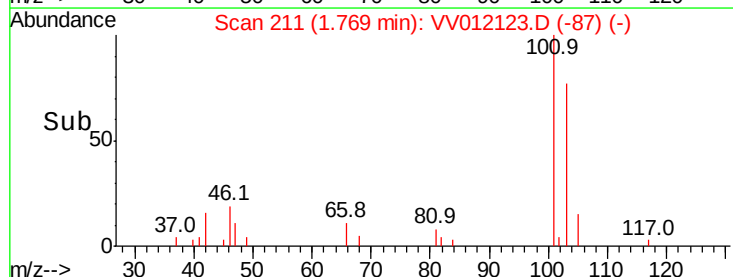
2000

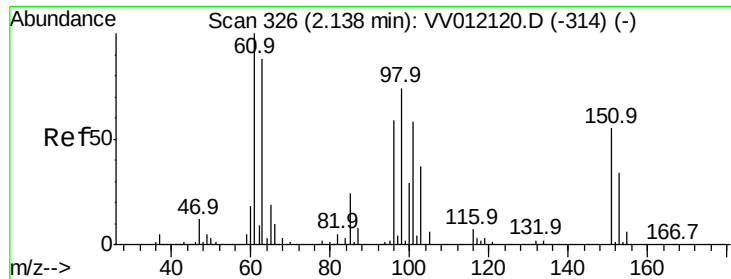
1000

0

1.74 1.76 1.78 1.80

Time-->





#10

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

Concen: 3.141 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampled :

MDL03

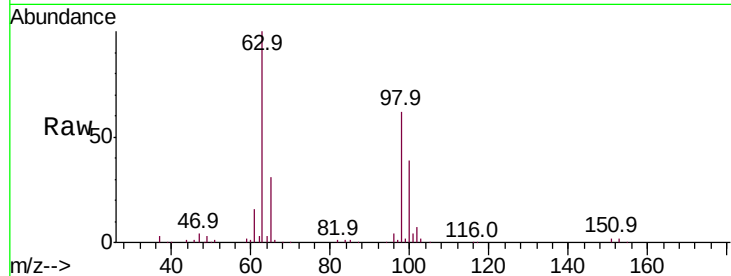
Tot Ion:101 Resp: 3217

Ion Ratio Lower Upper

101 100

85 31.2 34.4 51.6#

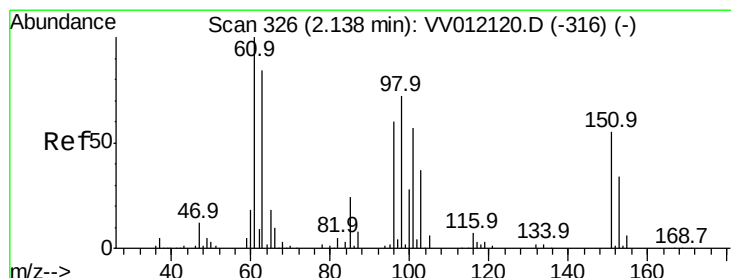
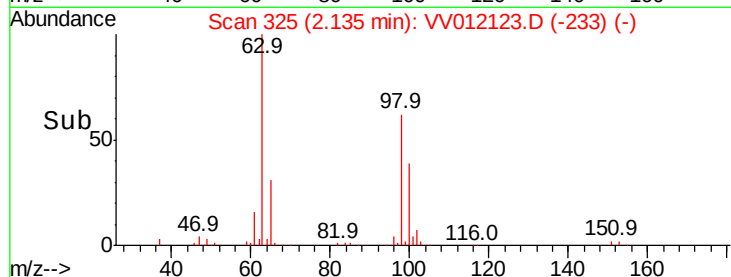
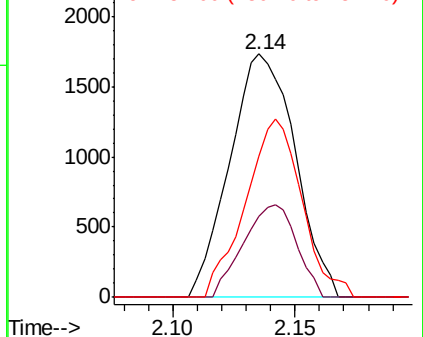
151 63.4 72.2 108.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.897 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

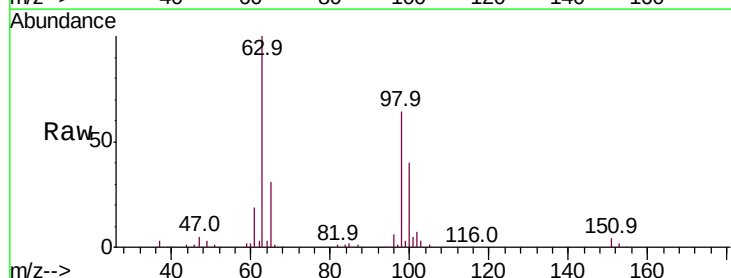
Tgt Ion: 96 Resp: 2794

Ion Ratio Lower Upper

96 100

61 325.2 120.0 223.0#

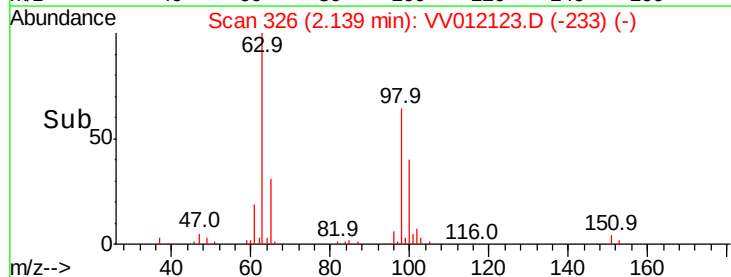
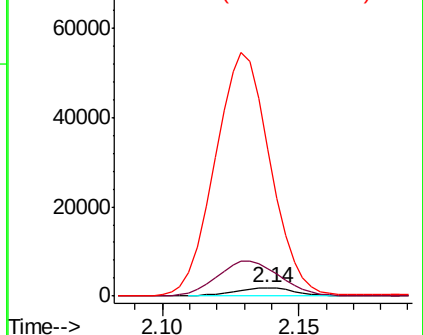
63 1751.9 98.3 182.7#

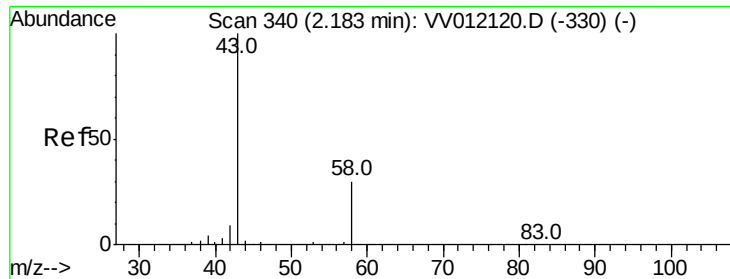


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 4.159 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV012123.D

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ClientSampleId :

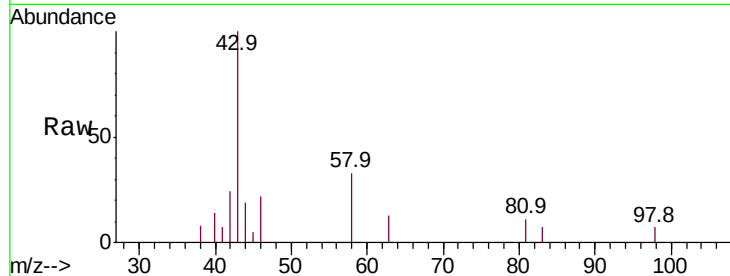
MDL03

Tot Ion: 43 Resp: 2998

Ion Ratio Lower Upper

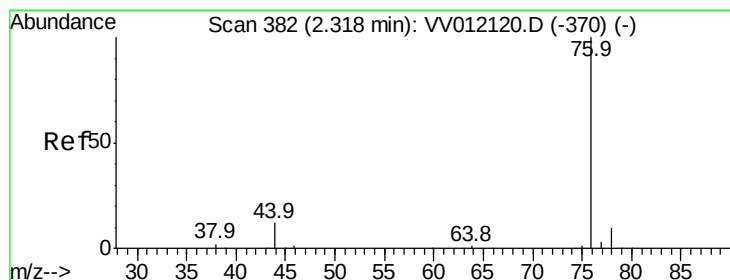
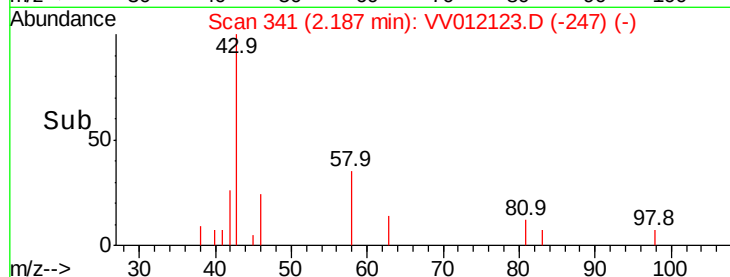
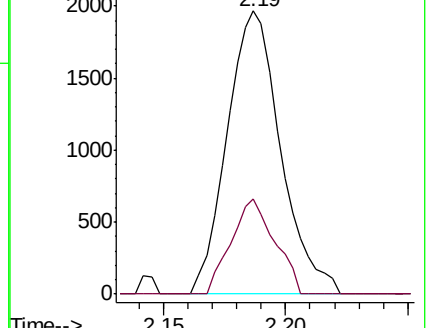
43 100

58 27.3 0.0 59.2



Abundance Ion 43.00 (42.70 to 43.70): VV012120.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV012120.D (-330) (-)



#14

Carbon disulfide

Concen: 2.186 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV012123.D

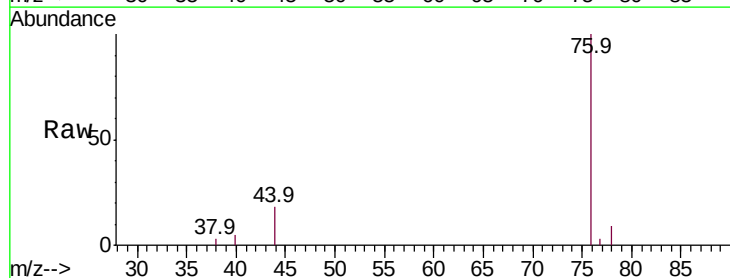
Acq: 07 Aug 2019 13:20

Tgt Ion: 76 Resp: 7126

Ion Ratio Lower Upper

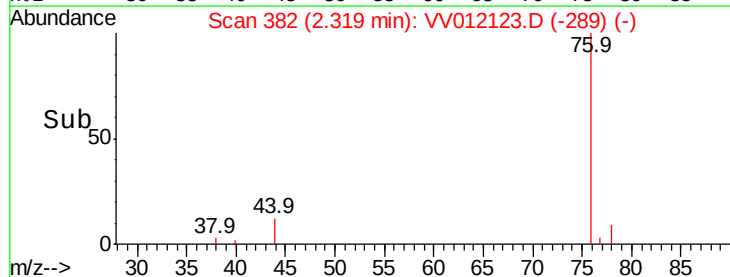
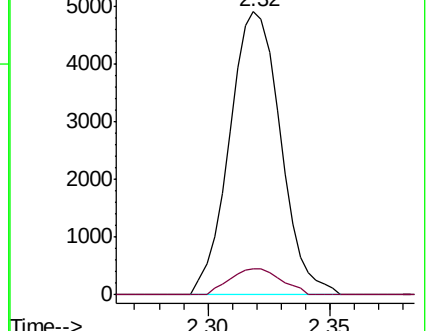
76 100

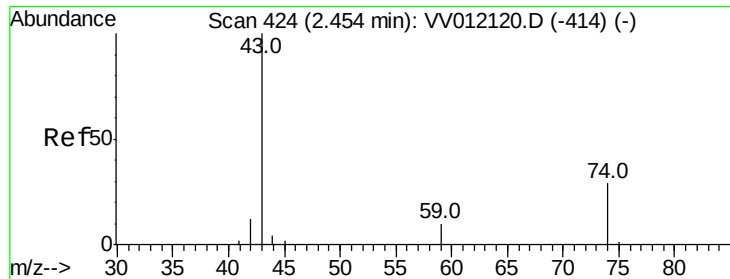
78 9.3 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV012120.D (-370) (-)

Ion 78.00 (77.70 to 78.70): VV012120.D (-370) (-)

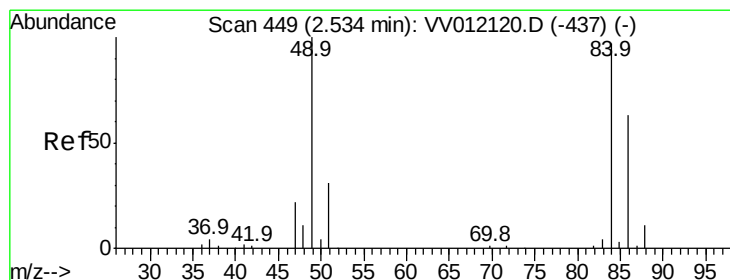
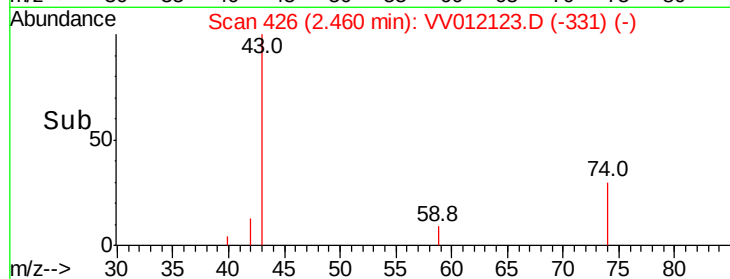
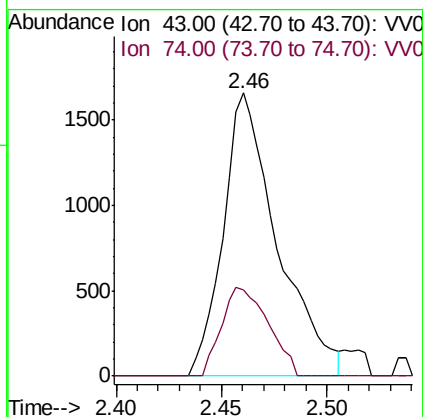
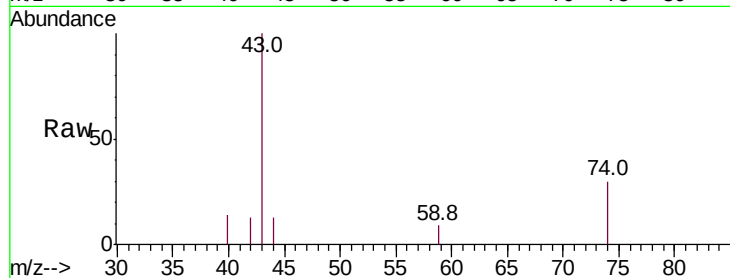




#15
Methvl Acetate
Concen: 2.343 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.01 min
Lab File: VV012123.D
Acq: 07 Aug 2019 13:20

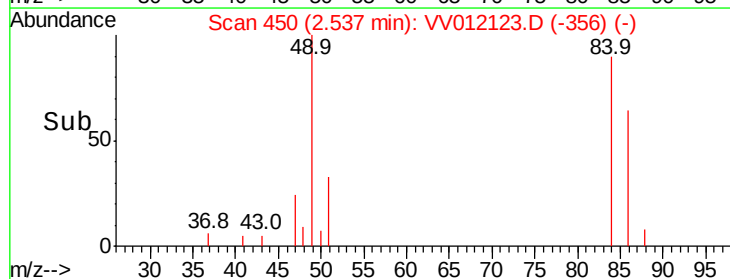
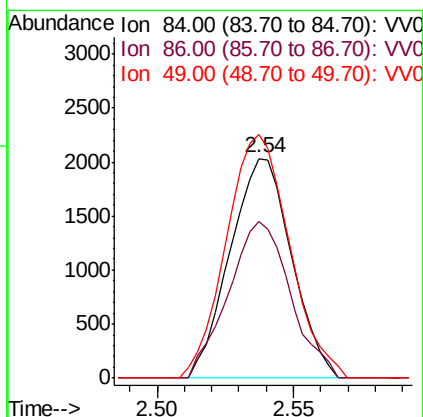
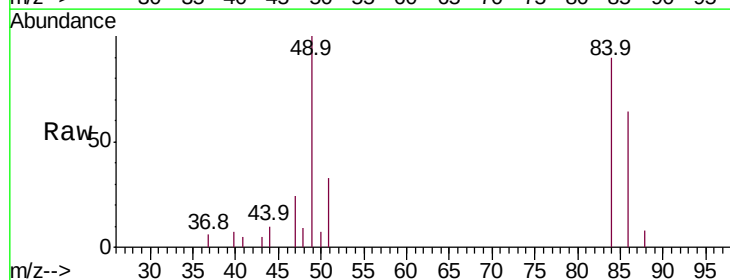
Instrument :
MSVOA_V
ClientSampled :
MDL03

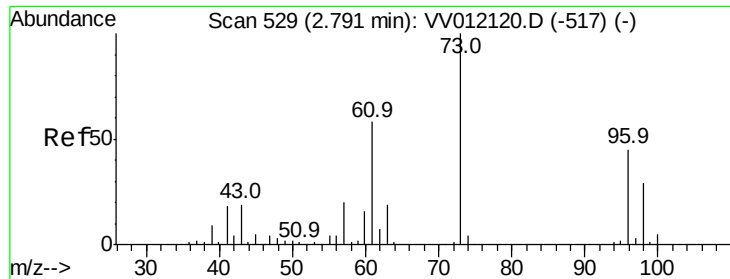
Tot Ion: 43 Resp: 2955
Ion Ratio Lower Upper
43 100
74 26.9 21.8 32.6



#16
Methylene chloride
Concen: 2.175 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV012123.D
Acq: 07 Aug 2019 13:20

Tgt Ion: 84 Resp: 3182
Ion Ratio Lower Upper
84 100
86 71.1 45.7 84.9
49 110.9 76.6 142.2

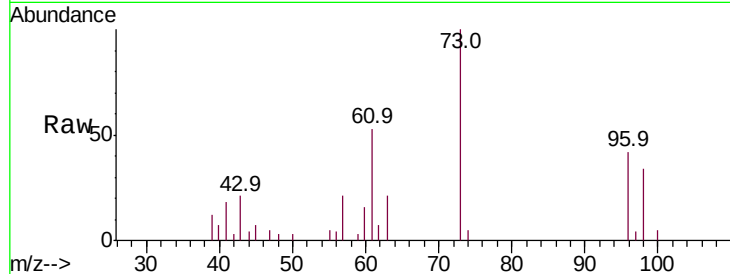




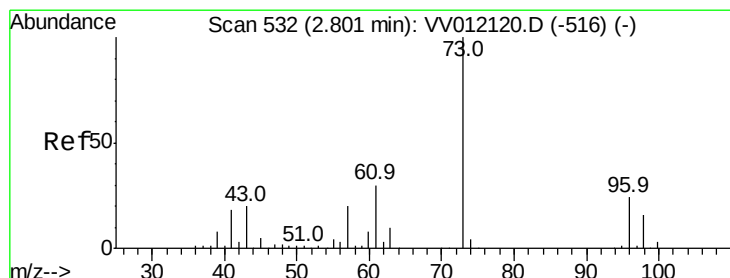
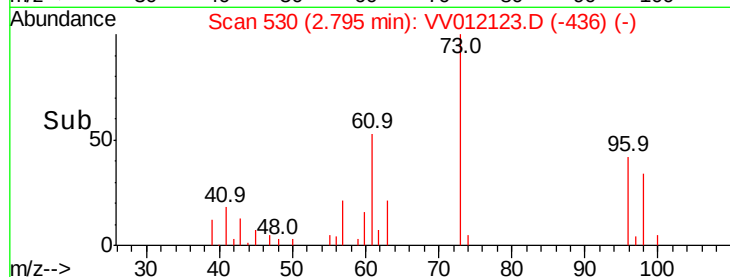
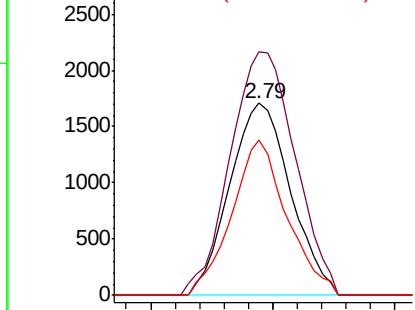
#17
trans-1,2-Dichloroethene
Concen: 2.171 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV012123.D
Acq: 07 Aug 2019 13:20

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion: 96 Resp: 2956
Ion Ratio Lower Upper
96 100
61 126.7 90.6 168.3
98 80.7 44.2 82.2

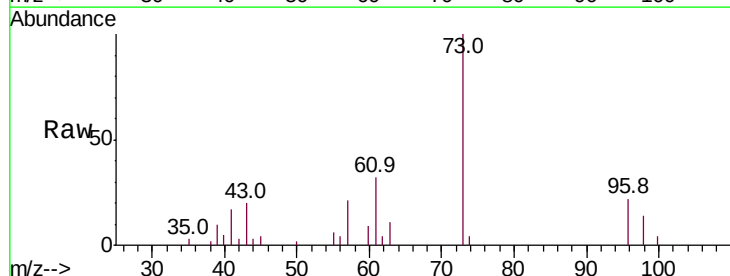


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

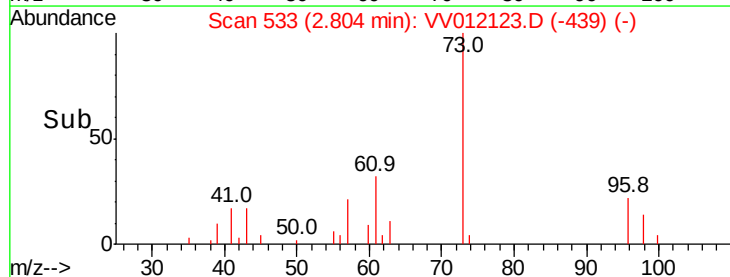
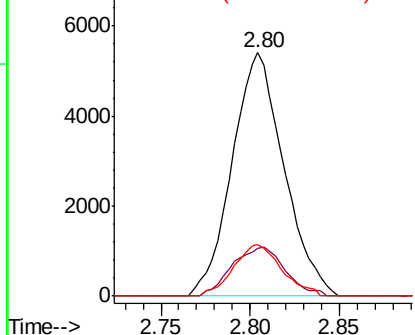


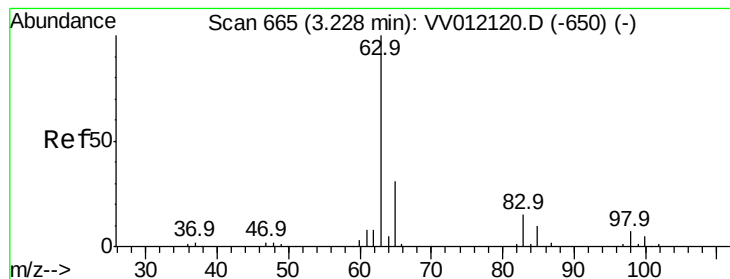
#18
Methyl tert-butyl Ether
Concen: 2.332 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV012123.D
Acq: 07 Aug 2019 13:20

Tgt Ion: 73 Resp: 10911
Ion Ratio Lower Upper
73 100
43 20.4 15.6 23.4
57 19.6 16.0 24.0



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 2.343 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampled :

MDL03

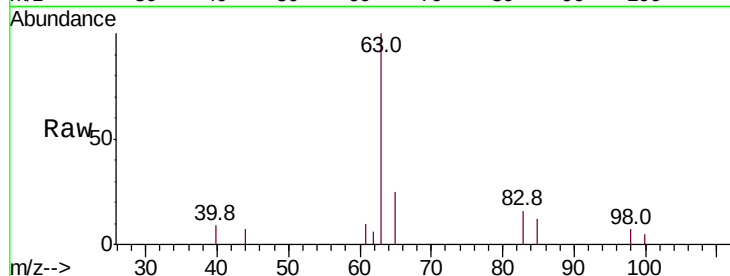
Tot Ion: 63 Resp: 5819

Ion Ratio Lower Upper

63 100

65 24.7 22.3 41.3

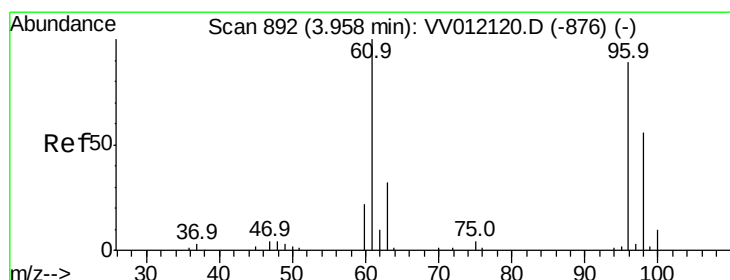
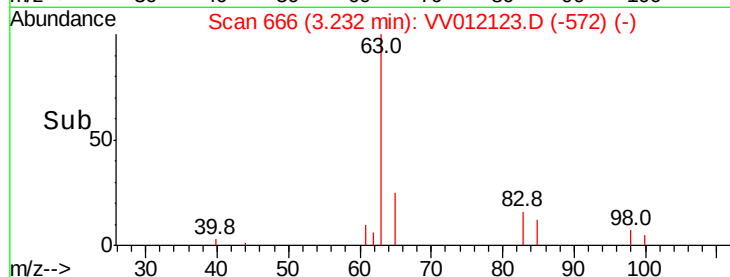
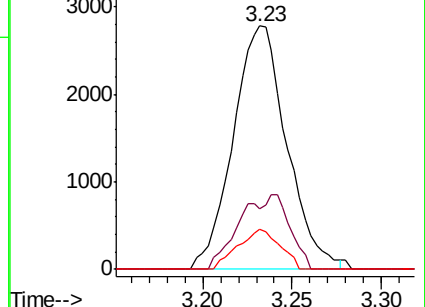
83 16.4 10.3 19.1



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 2.231 ug/L

RT: 3.96 min Scan# 894

Delta R.T. 0.01 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

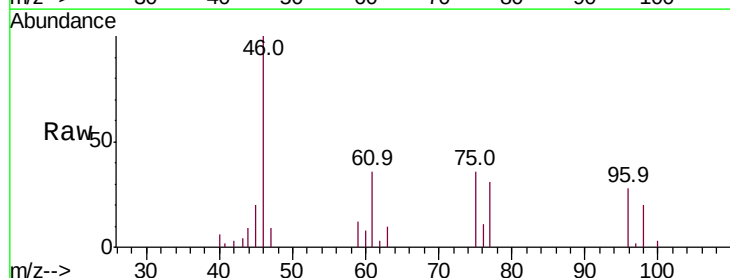
Tgt Ion: 96 Resp: 3579

Ion Ratio Lower Upper

96 100

61 128.4 80.0 148.6

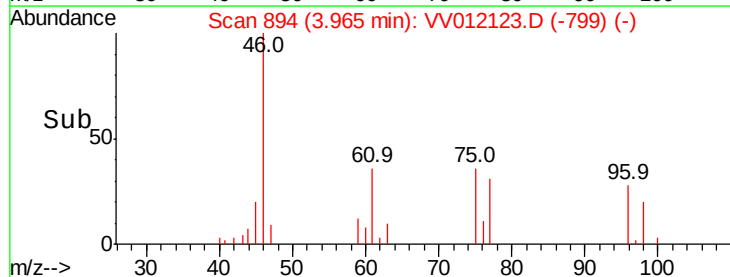
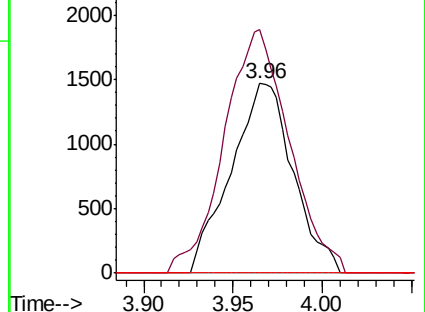
68 0.0 0.0 0.0

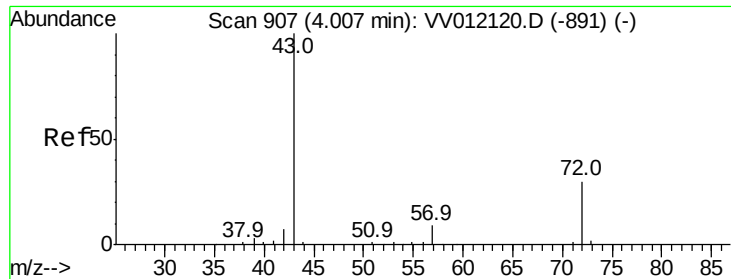


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 3.819 ug/L

RT: 4.02 min Scan# 912

Delta R.T. 0.02 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

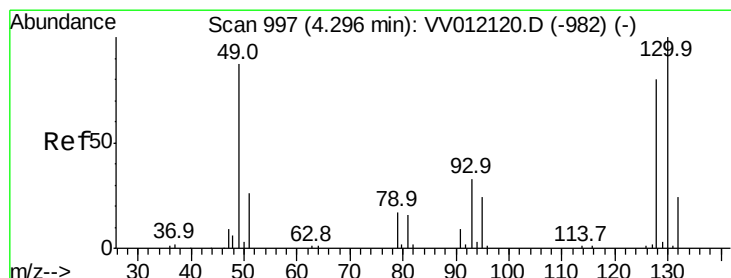
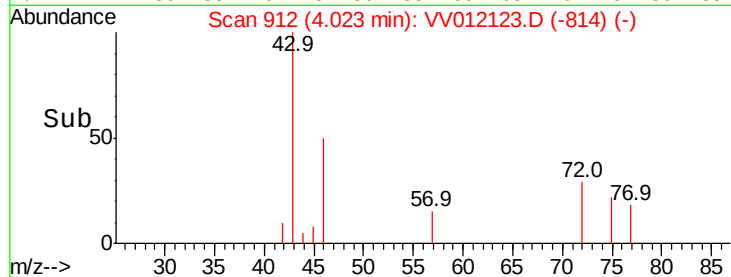
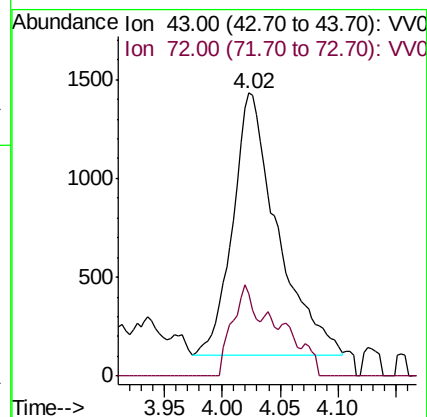
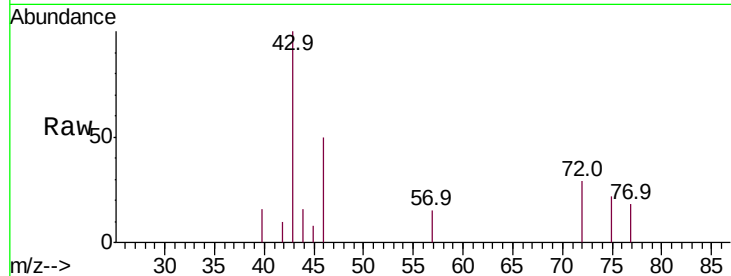
Instrument :
MSVOA_V
ClientSampled :
MDL03

Tot Ion: 43 Resp: 3548

Ion Ratio Lower Upper

43 100

72 18.4 15.0 45.0



#23

Bromochloromethane

Concen: 2.299 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Tgt Ion: 128 Resp: 2028

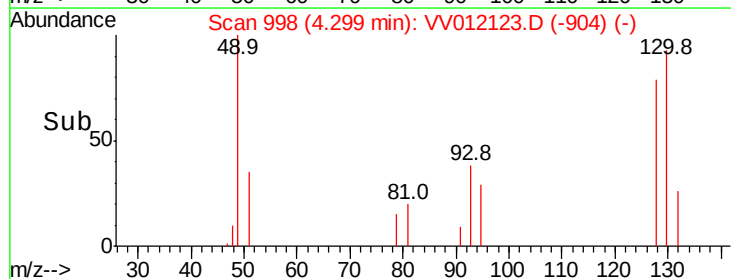
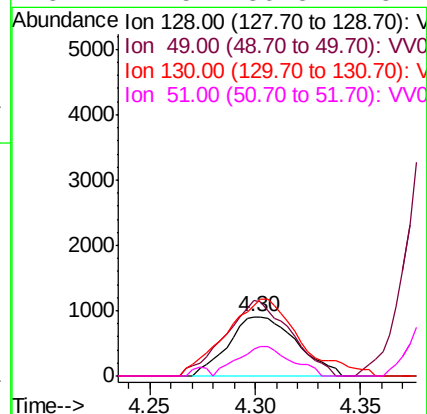
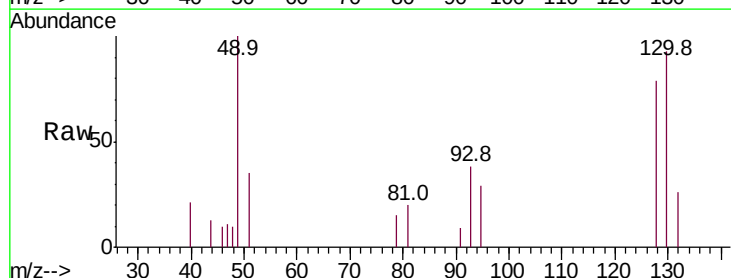
Ion Ratio Lower Upper

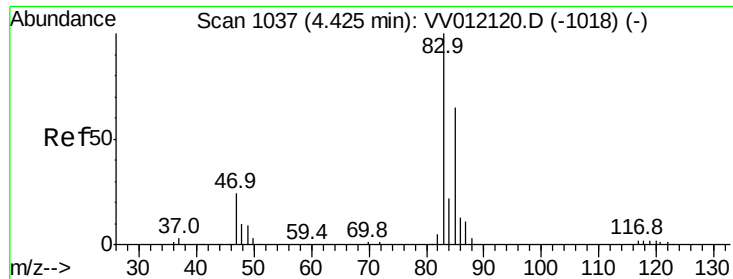
128 100

49 126.4 84.6 157.2

130 117.6 89.9 167.0

51 44.5 30.5 45.7

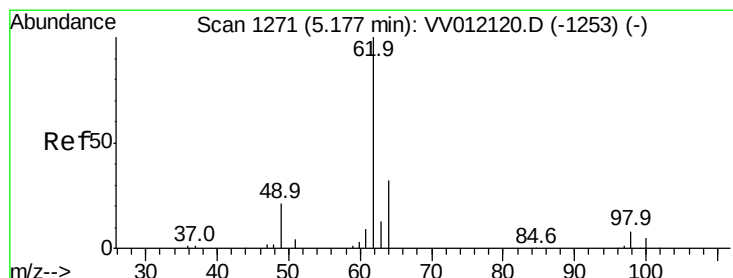
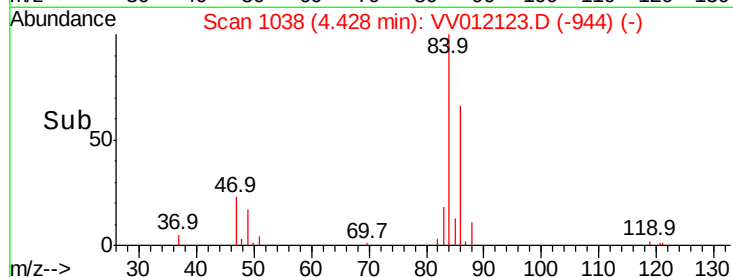
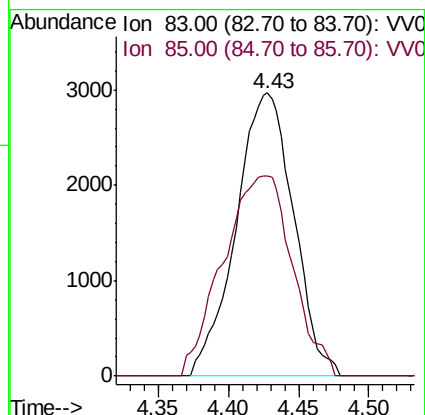
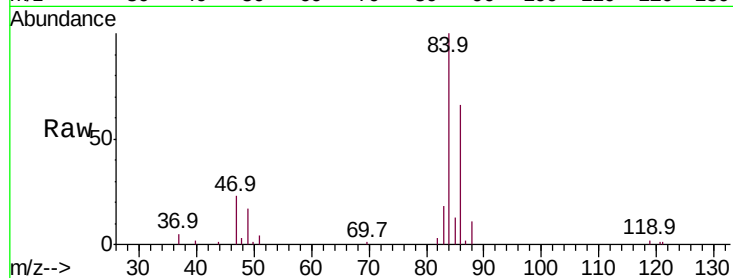




#25
Chloroform
Concen: 3.005 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV012123.D
Acq: 07 Aug 2019 13:20

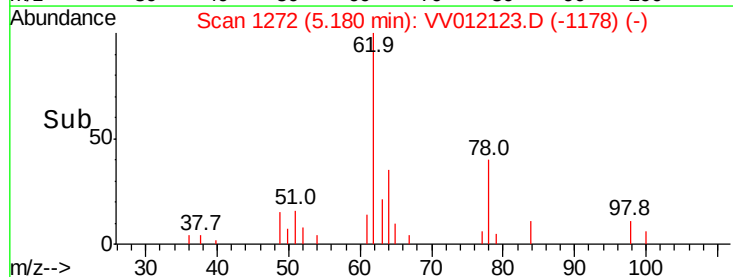
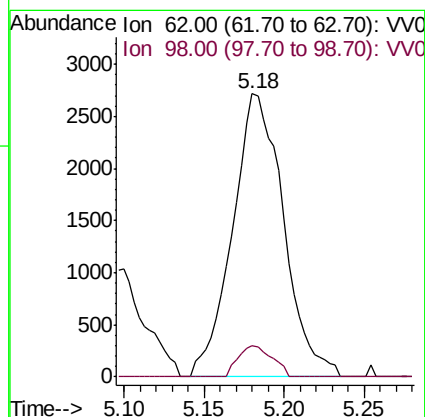
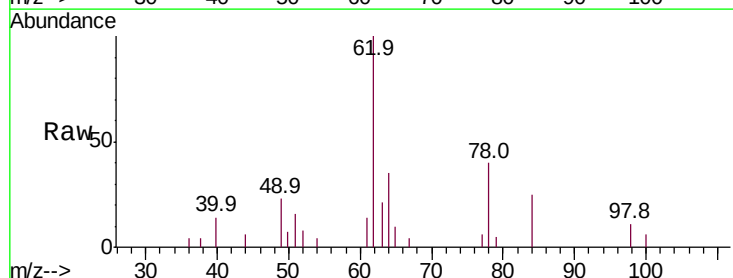
Instrument :
MSVOA_V
ClientSampled :
MDL03

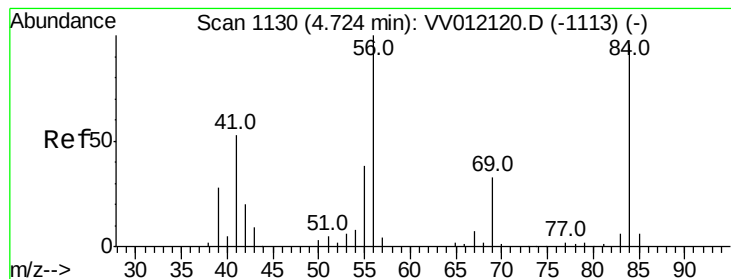
Tot Ion: 83 Resp: 8459
Ion Ratio Lower Upper
83 100
85 70.7 45.8 85.2



#27
1,2-Dichloroethane
Concen: 2.710 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV012123.D
Acq: 07 Aug 2019 13:20

Tgt Ion: 62 Resp: 5929
Ion Ratio Lower Upper
62 100
98 10.9 7.5 11.3





#29

Cyclohexane

Concen: 2.482 ug/L

RT: 4.73 min Scan# 1133

Delta R.T. 0.01 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampled :

MDL03

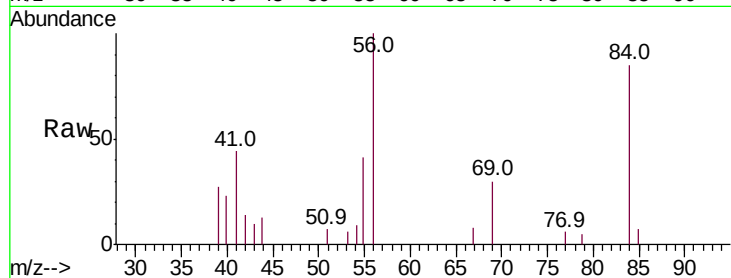
Tot Ion: 56 Resp: 5044

Ion Ratio Lower Upper

56 100

69 19.1 25.8 38.8#

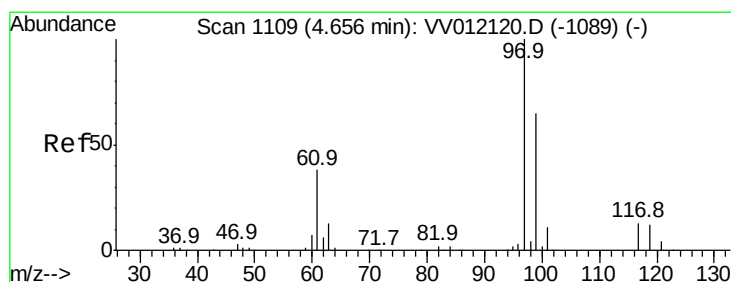
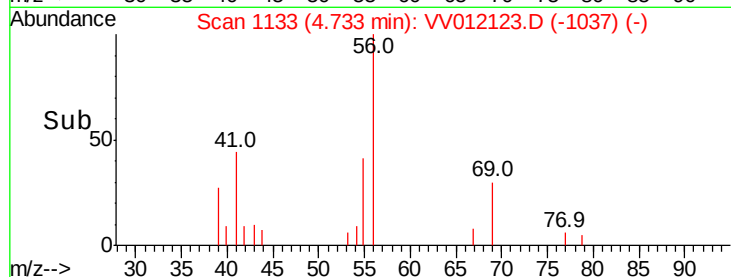
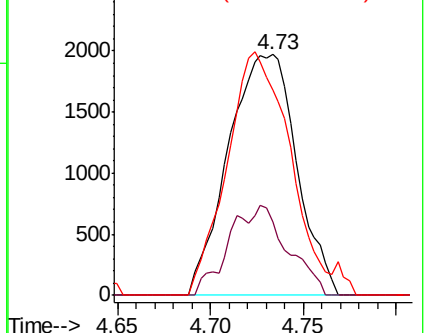
84 92.9 76.0 114.0



Abundance Ion 56.00 (55.70 to 56.70): VV012123.D (-1037) (-)

Ion 69.00 (68.70 to 69.70): VV012123.D (-1037) (-)

Ion 84.00 (83.70 to 84.70): VV012123.D (-1037) (-)



#30

1,1,1-Trichloroethane

Concen: 2.338 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

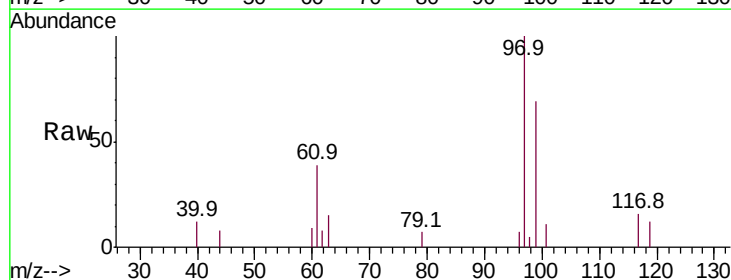
Tgt Ion: 97 Resp: 6037

Ion Ratio Lower Upper

97 100

99 71.7 51.1 76.7

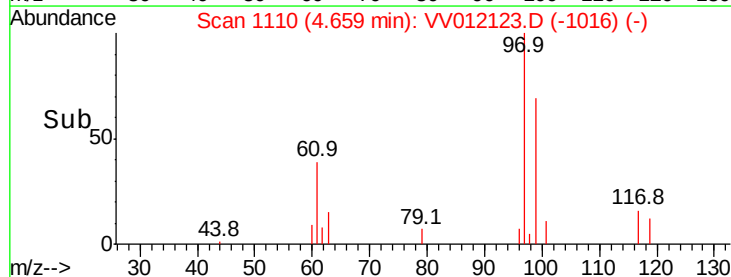
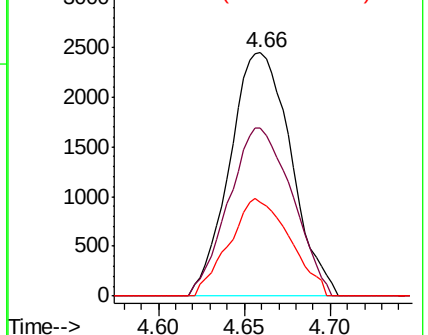
61 39.8 31.3 46.9

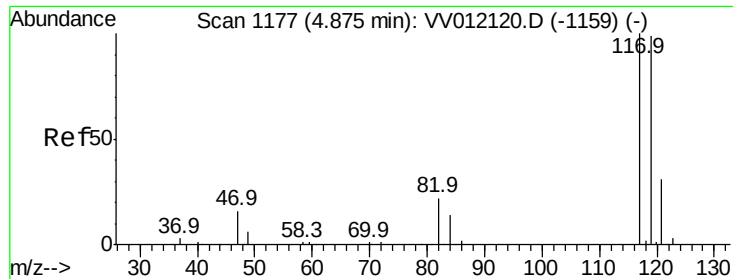


Abundance Ion 97.00 (96.70 to 97.70): VV012123.D (-1016) (-)

Ion 99.00 (98.70 to 99.70): VV012123.D (-1016) (-)

Ion 61.05 (60.75 to 61.75): VV012123.D (-1016) (-)





#31

Carbon tetrachloride

Concen: 2.550 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampled :

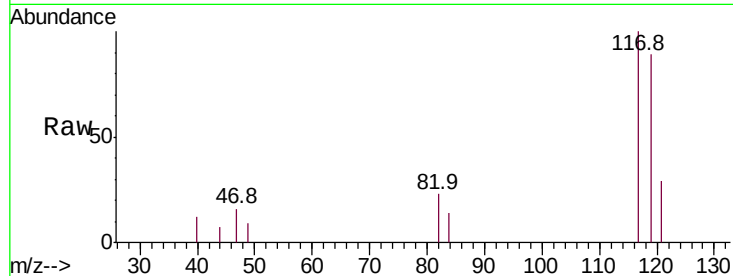
MDL03

Tot Ion:117 Resp: 6108

Ion Ratio Lower Upper

117 100

119 89.1 78.2 117.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.87

3000

2500

2000

1500

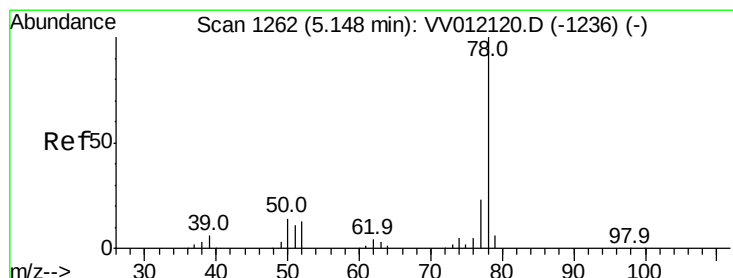
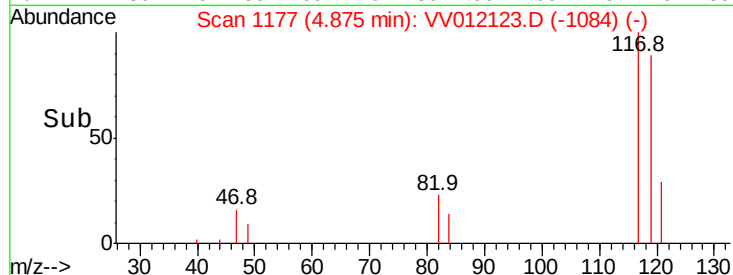
1000

500

0

Time-->

4.80 4.85 4.90 4.95



#33

Benzene

Concen: 2.607 ug/L

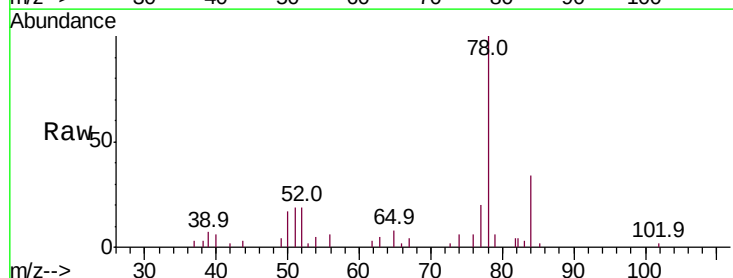
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Tgt Ion: 78 Resp: 14588



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.15

6000

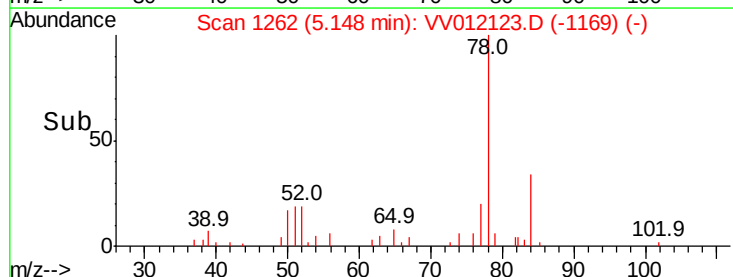
4000

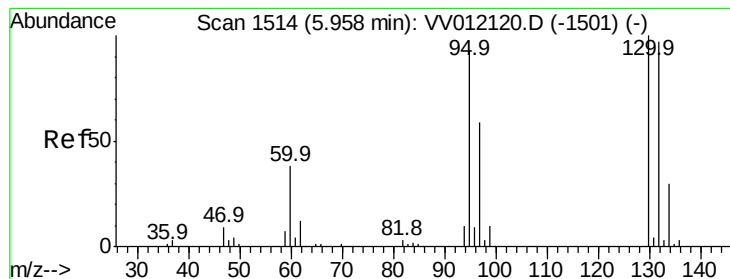
2000

0

Time-->

5.10 5.15 5.20





#34

Trichloroethene

Concen: 2.609 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 95 Resp: 4058

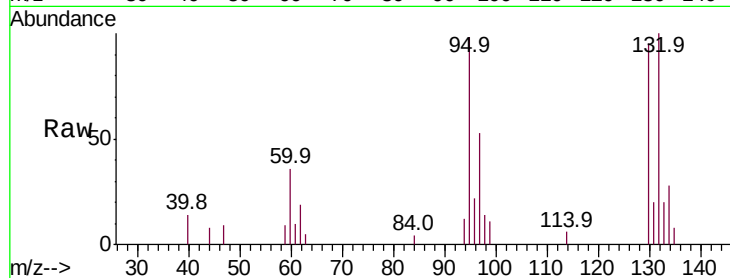
Ion Ratio Lower Upper

95 100

97 53.5 43.4 80.6

132 101.7 73.1 135.8

130 96.4 75.3 139.8

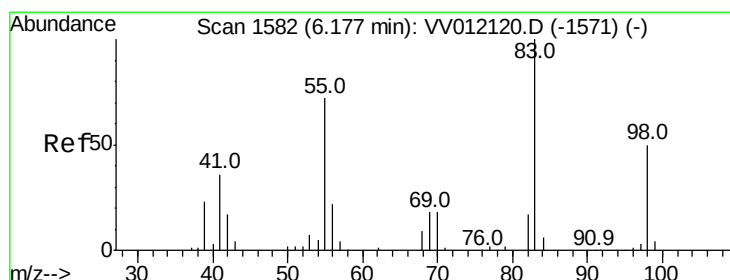
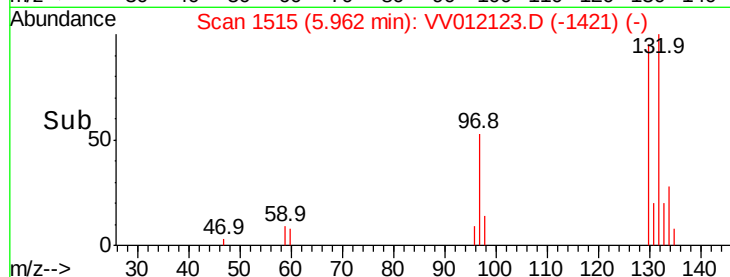
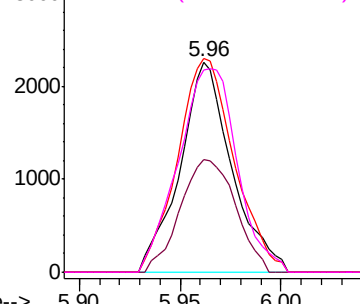


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 2.712 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

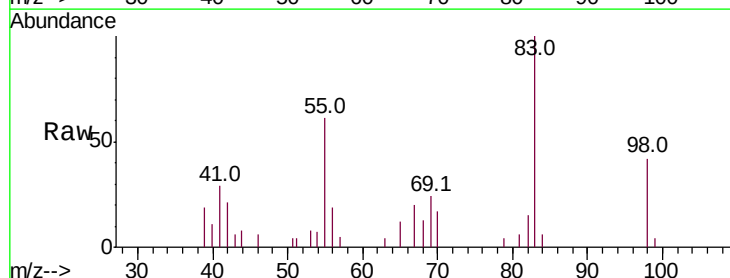
Tgt Ion: 83 Resp: 6277

Ion Ratio Lower Upper

83 100

55 66.8 55.5 83.3

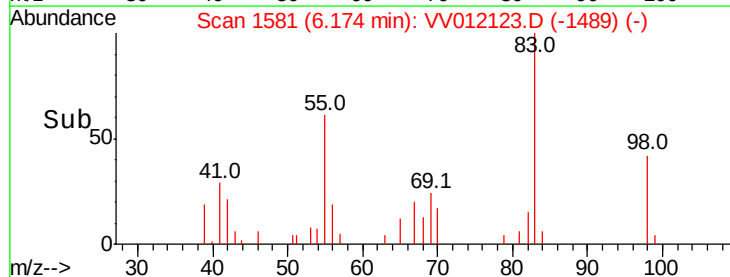
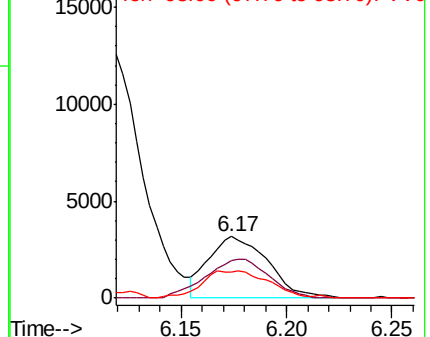
98 23.9 38.5 57.7#

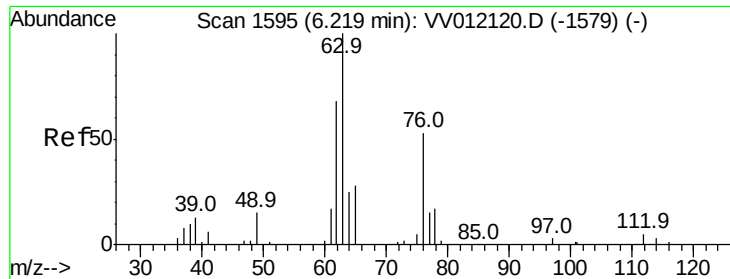


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 2.562 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampleId :

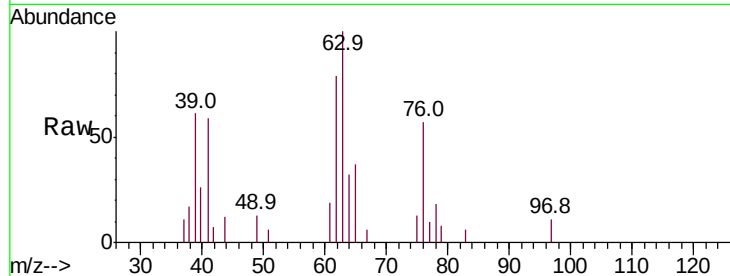
MDL03

Tot Ion: 63 Resp: 3496

Ion Ratio Lower Upper

63 100

112 0.0 4.2 6.2#



Abundance Ion 63.00 (62.70 to 63.70): VV012123.D (-1596) (-)

Ion 112.00 (111.70 to 112.70): VV012123.D (-1596) (-)

6.22

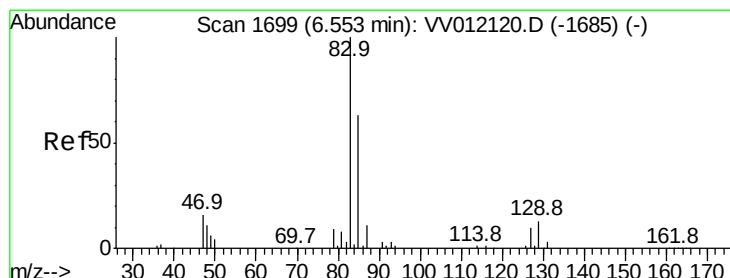
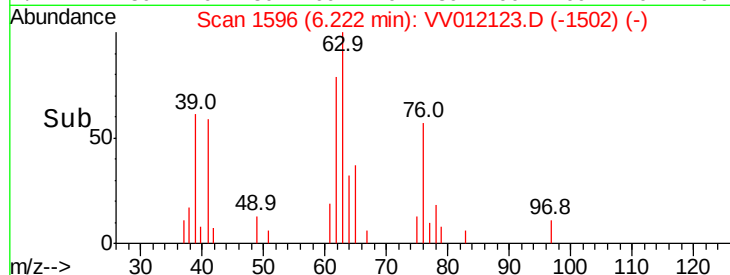
1500

1000

500

0

Time--> 6.15 6.20 6.25



#38

Bromodichloromethane

Concen: 2.465 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

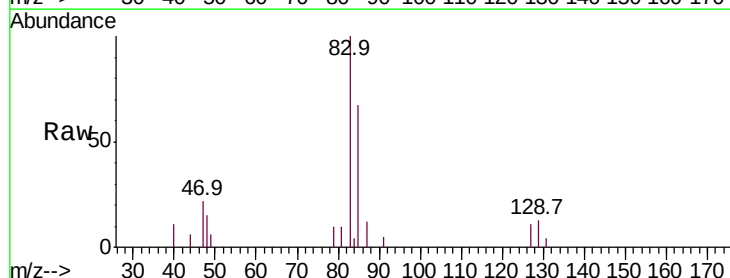
Tgt Ion: 83 Resp: 5292

Ion Ratio Lower Upper

83 100

85 67.2 45.0 83.6

127 11.0 7.9 11.9



Abundance Ion 83.00 (82.70 to 83.70): VV012123.D (-1699) (-)

Ion 85.00 (84.70 to 85.70): VV012123.D (-1699) (-)

Ion 127.00 (126.70 to 127.70): VV012123.D (-1699) (-)

6.55

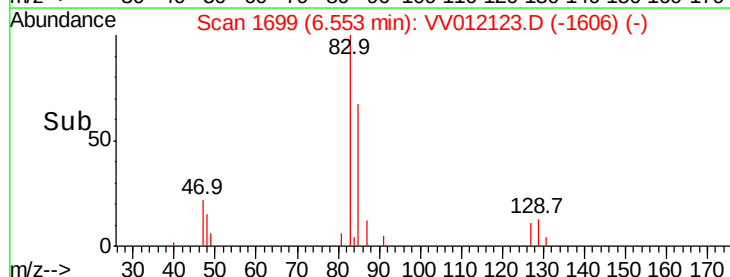
3000

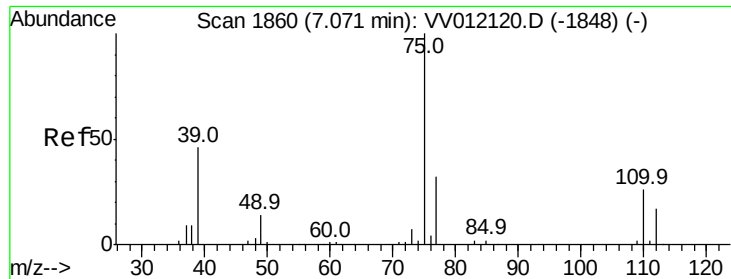
2000

1000

0

Time--> 6.50 6.55 6.60

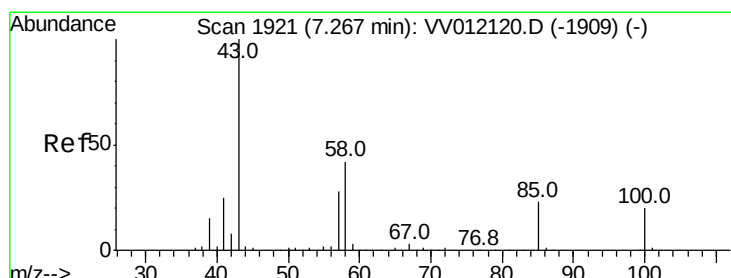
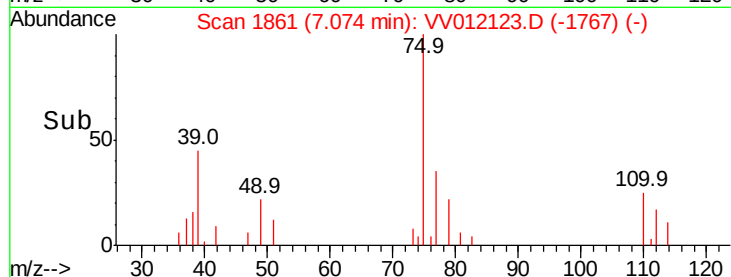
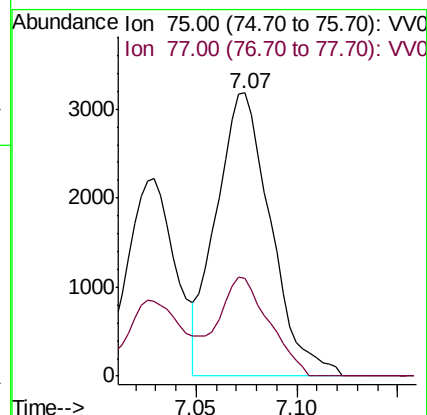
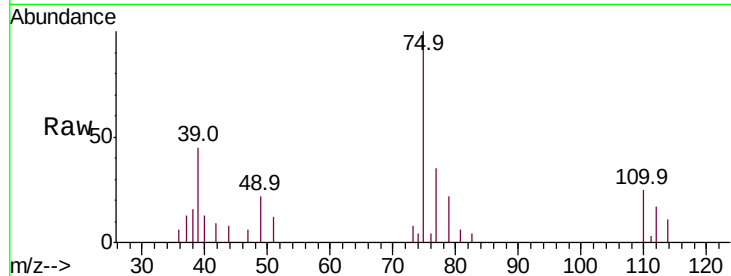




#39
 cis-1,3-Dichloropropene
 Concen: 2.496 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VV012123.D
 Acq: 07 Aug 2019 13:20

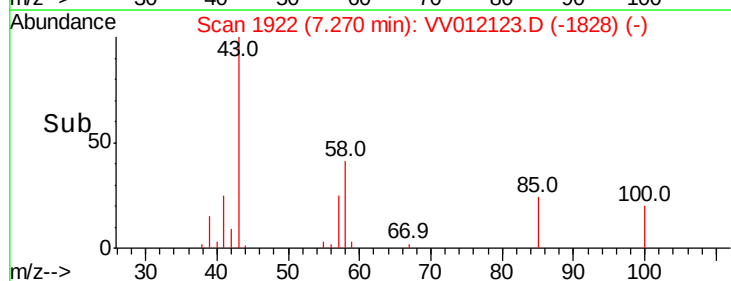
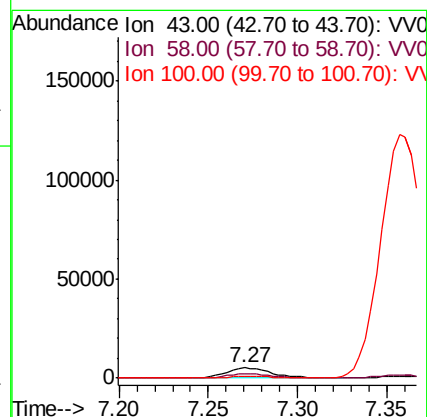
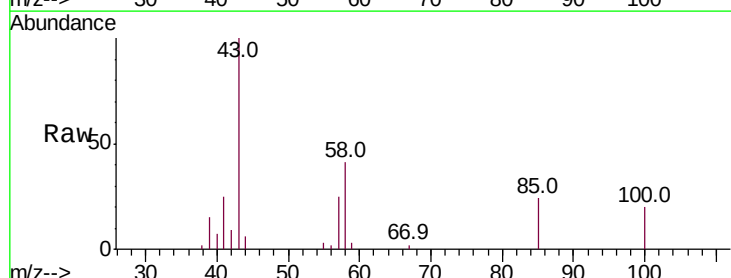
Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

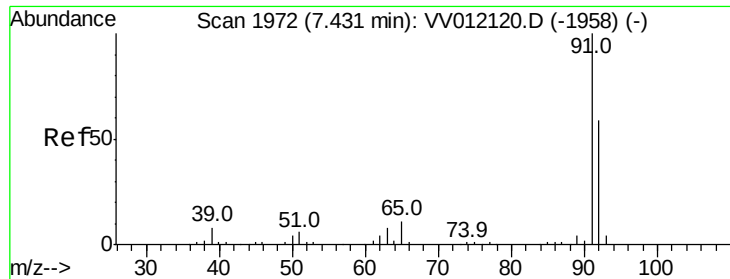
Tot Ion: 75 Resp: 6006
 Ion Ratio Lower Upper
 75 100
 77 34.5 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 5.299 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV012123.D
 Acq: 07 Aug 2019 13:20

Tgt Ion: 43 Resp: 9307
 Ion Ratio Lower Upper
 43 100
 58 39.7 33.4 50.2
 100 17.6 15.0 22.4





#42

Toluene

Concen: 2.745 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampled :

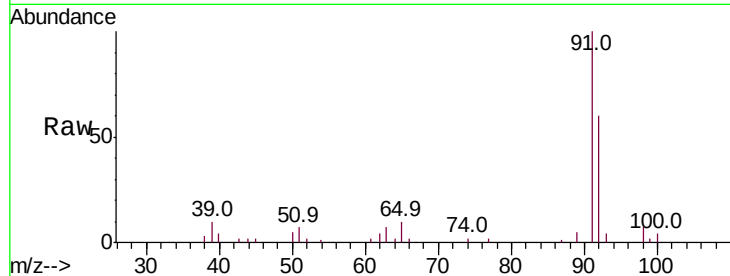
MDL03

Tot Ion: 91 Resp: 17063

Ion Ratio Lower Upper

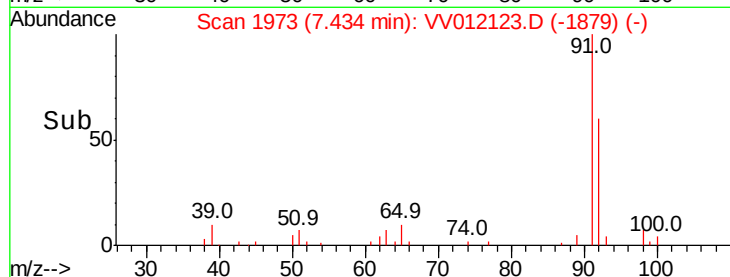
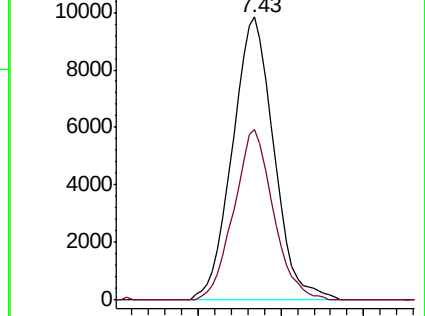
91 100

92 60.4 40.1 74.5

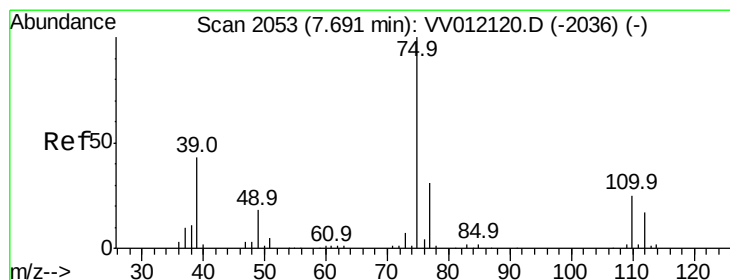


Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.264 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012123.D

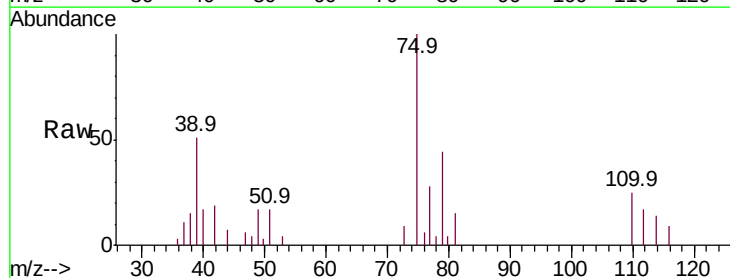
Acq: 07 Aug 2019 13:20

Tgt Ion: 75 Resp: 5142

Ion Ratio Lower Upper

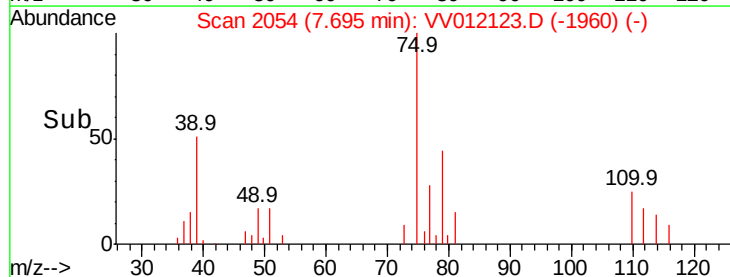
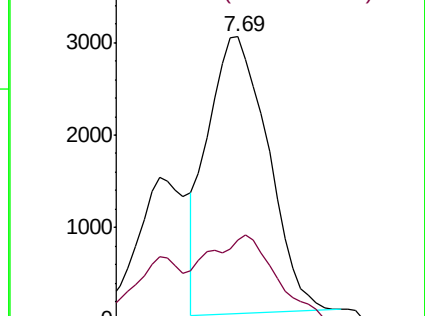
75 100

77 28.3 21.8 40.4

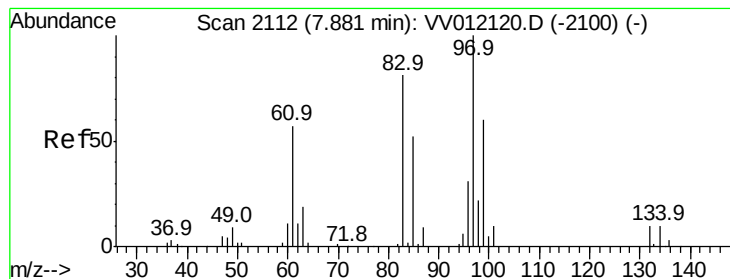


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



Time-->



#45

1,1,2-Trichloroethane

Concen: 2.499 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 97 Resp: 3677

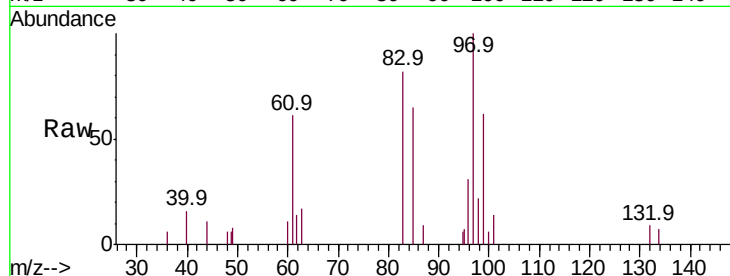
Ion Ratio Lower Upper

97 100

99 61.6 47.2 87.6

83 81.6 58.0 107.6

85 64.7 38.0 70.6

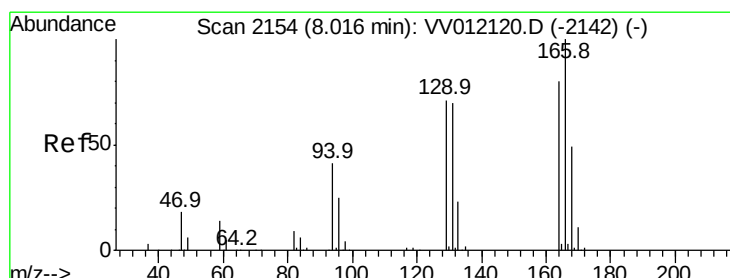
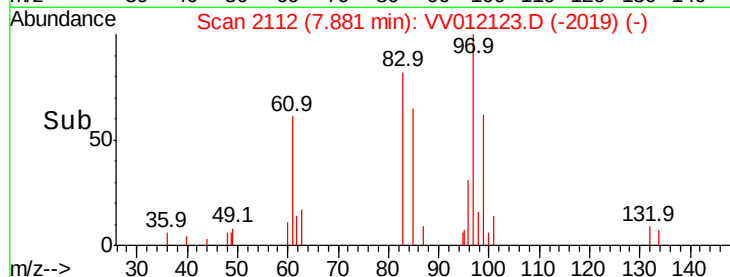
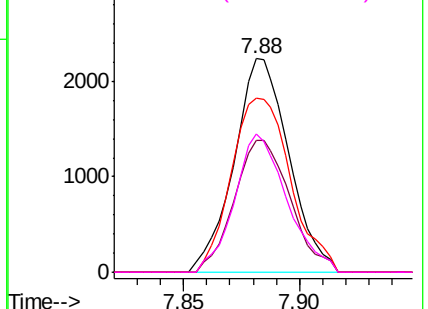


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 2.527 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Tgt Ion: 164 Resp: 3661

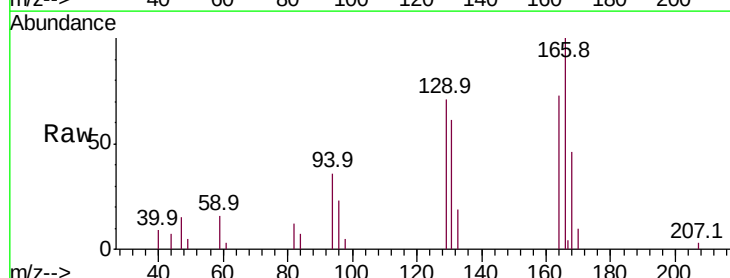
Ion Ratio Lower Upper

164 100

129 96.9 64.3 119.5

131 83.7 60.1 111.7

166 136.1 91.8 170.6

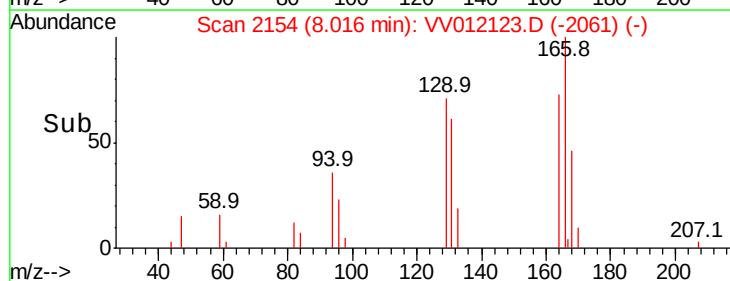
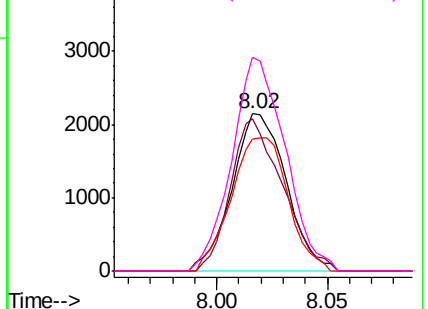


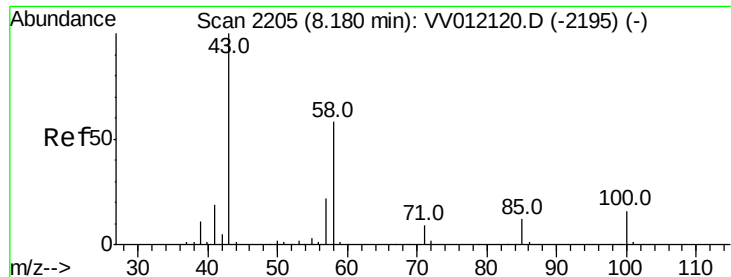
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

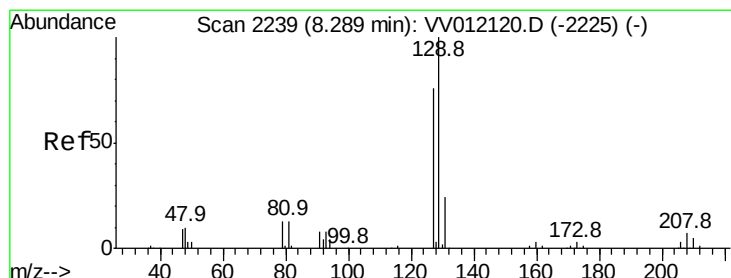
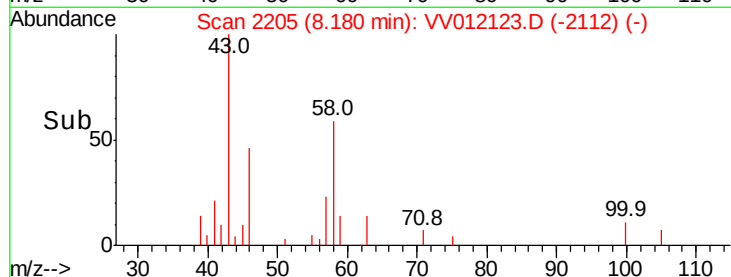
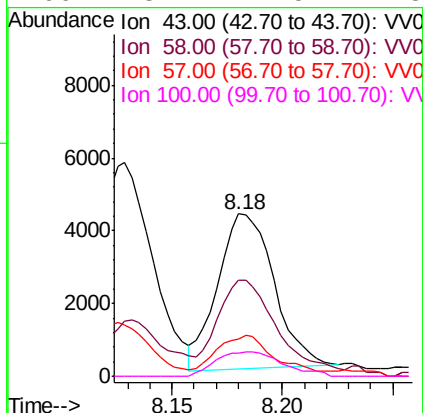
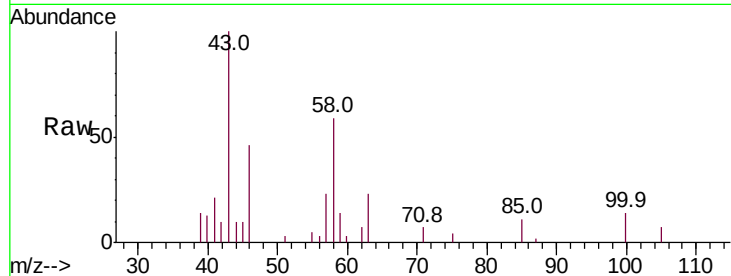




#48
2-Hexanone
Concen: 5.685 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV012123.D
Acq: 07 Aug 2019 13:20

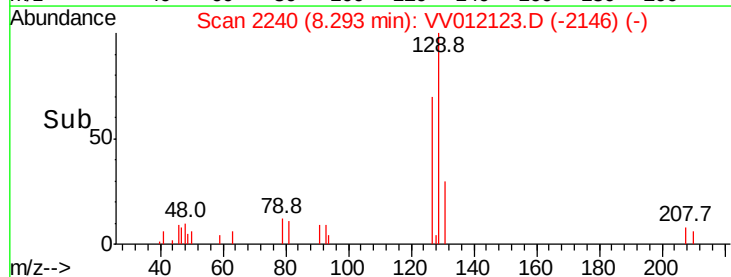
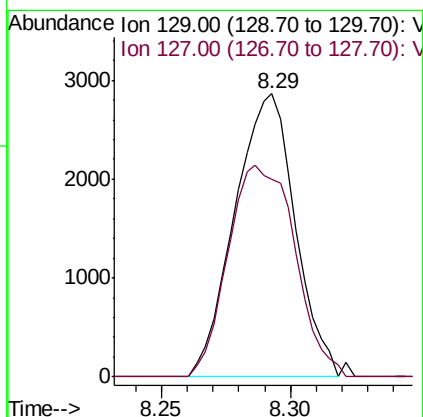
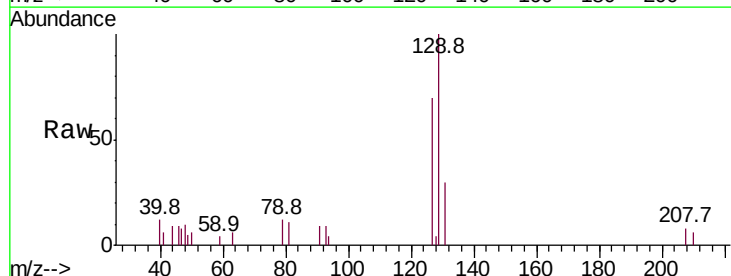
Instrument :
MSVOA_V
ClientSampled :
MDL03

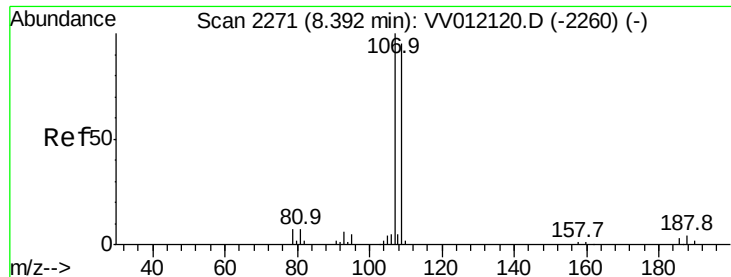
Tot Ion: 43 Resp: 7528
Ion Ratio Lower Upper
43 100
58 66.4 45.6 68.4
57 18.7 17.0 25.6
100 18.7 11.5 17.3#



#49
Dibromochloromethane
Concen: 2.451 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV012123.D
Acq: 07 Aug 2019 13:20

Tgt Ion: 129 Resp: 4679
Ion Ratio Lower Upper
129 100
127 69.7 53.8 100.0

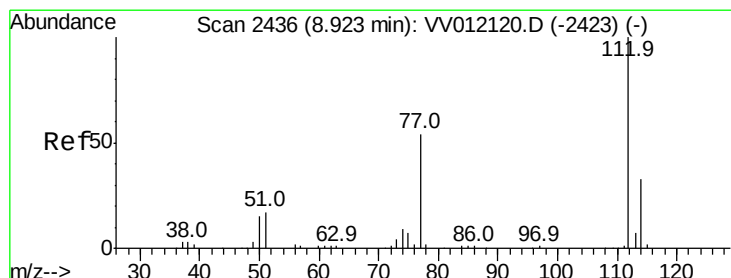
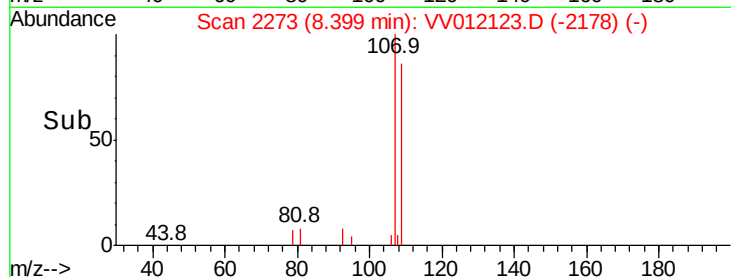
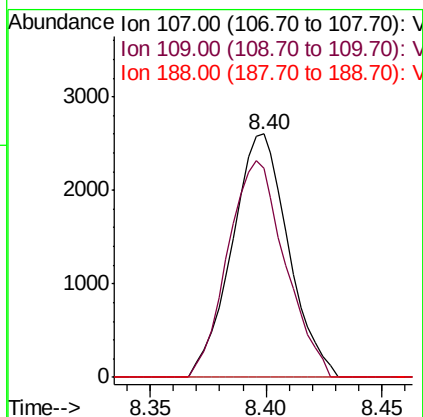
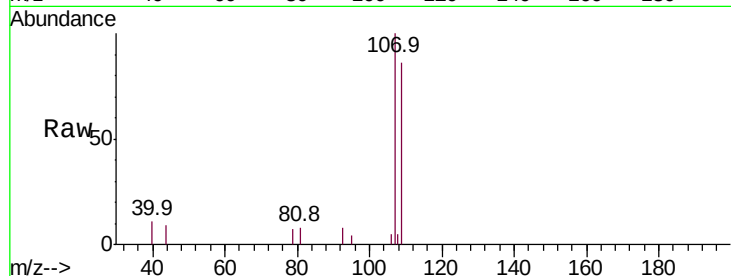




#50
 1,2-Dibromoethane
 Concen: 2.700 ug/L
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.01 min
 Lab File: VV012123.D
 Acq: 07 Aug 2019 13:20

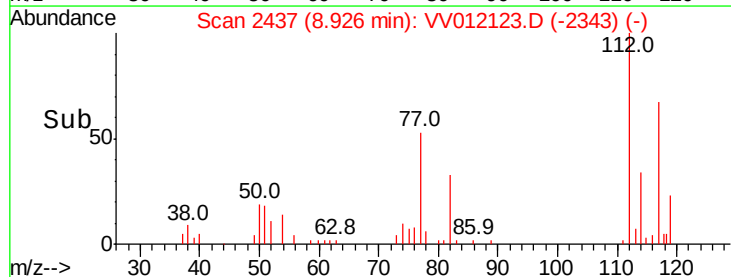
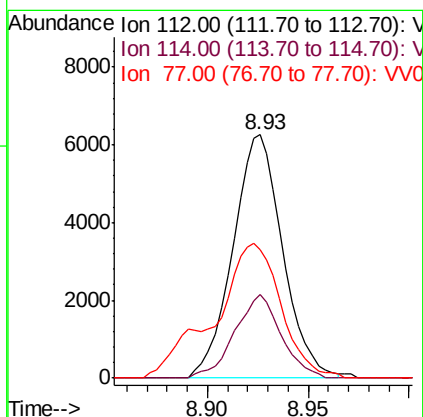
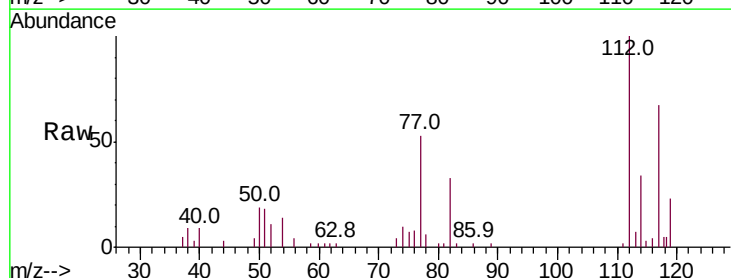
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

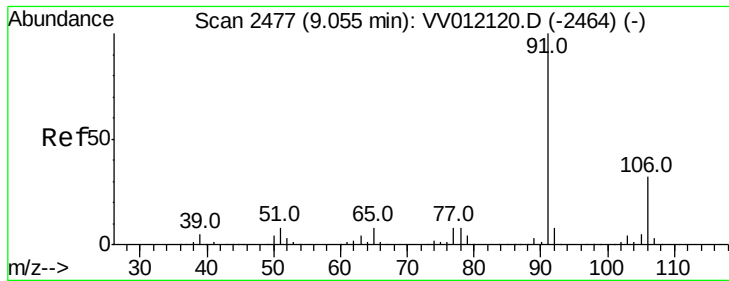
Tot Ion:107 Resp: 4392
 Ion Ratio Lower Upper
 107 100
 109 86.0 67.0 124.4
 188 0.0 3.9 5.9#



#51
 Chlorobenzene
 Concen: 2.571 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. 0.00 min
 Lab File: VV012123.D
 Acq: 07 Aug 2019 13:20

Tgt Ion:112 Resp: 10778
 Ion Ratio Lower Upper
 112 100
 114 34.1 22.8 42.4
 77 52.7 44.7 67.1





#52

Ethylbenzene

Concen: 2.397 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampleId :

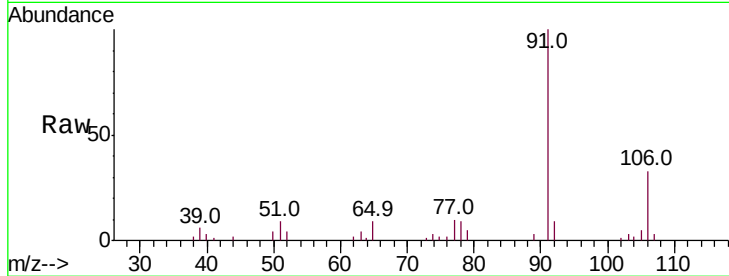
MDL03

Tot Ion: 91 Resp: 16721

Ion Ratio Lower Upper

91 100

106 33.1 22.3 41.5



Abundance Ion 91.00 (90.70 to 91.70): VV012123.D (-2384) (-)

Ion 106.00 (105.70 to 106.70): VV012123.D (-2384) (-)

9.05

12000

10000

8000

6000

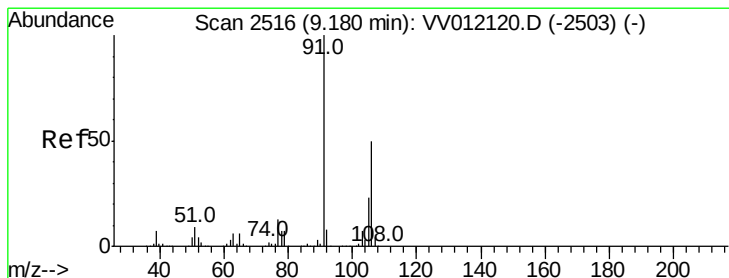
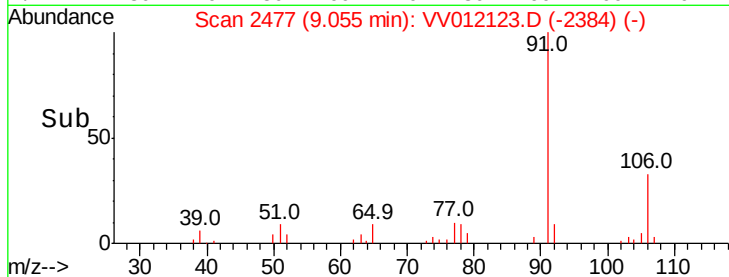
4000

2000

0

9.00 9.05 9.10

Time-->



#53

m,p-Xylene

Concen: 2.522 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV012123.D

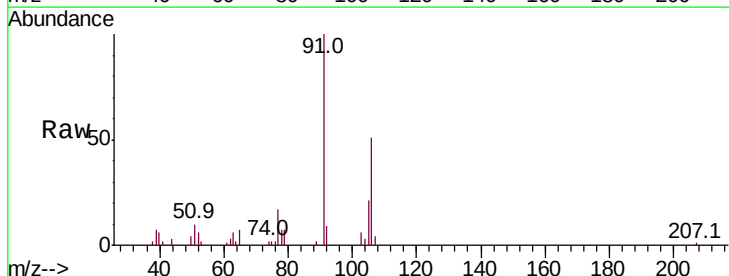
Acq: 07 Aug 2019 13:20

Tgt Ion:106 Resp: 6788

Ion Ratio Lower Upper

106 100

91 197.8 146.7 272.5



Abundance Ion 106.00 (105.70 to 106.70): VV012123.D (-2423) (-)

Ion 91.00 (90.70 to 91.70): VV012123.D (-2423) (-)

9.18

8000

6000

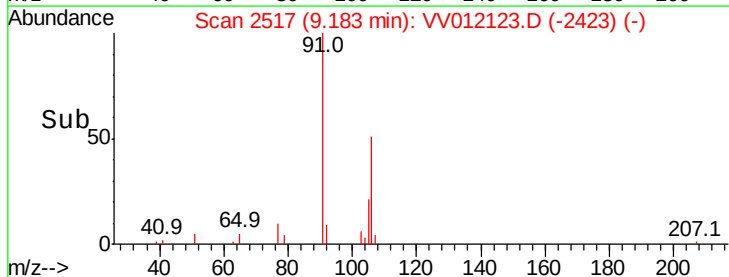
4000

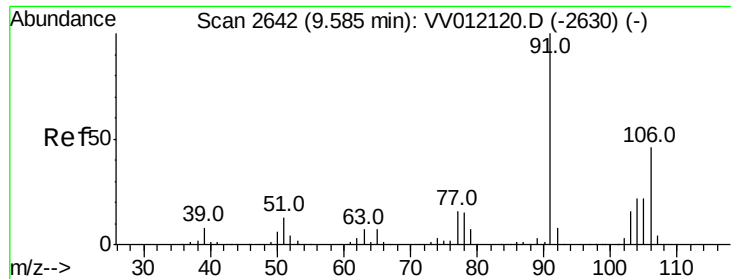
2000

0

9.15 9.20

Time-->





#54

o-Xylene

Concen: 2.542 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampled :

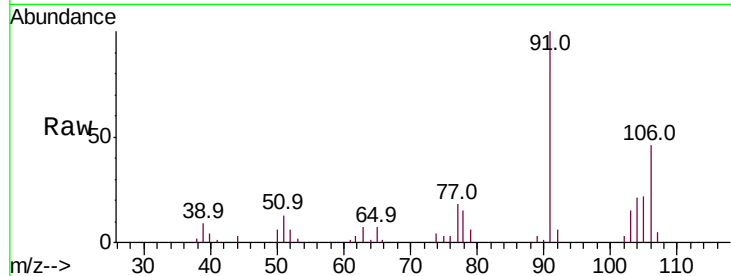
MDL03

Tot Ion:106 Resp: 6787

Ion Ratio Lower Upper

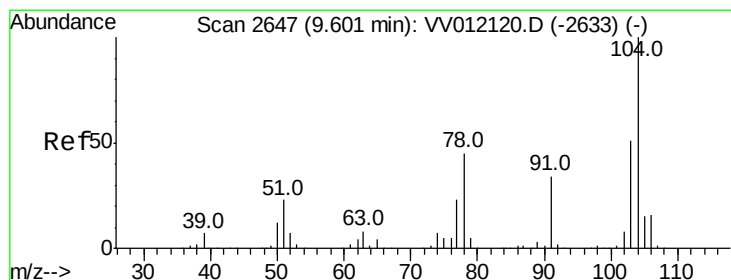
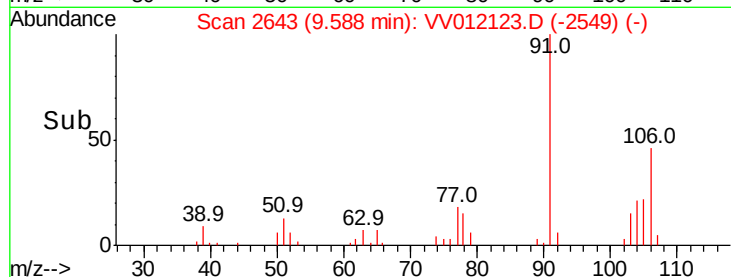
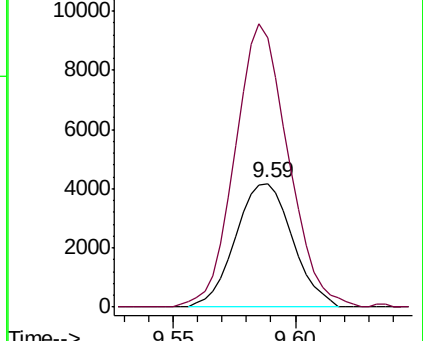
106 100

91 218.0 150.4 279.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 2.341 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV012123.D

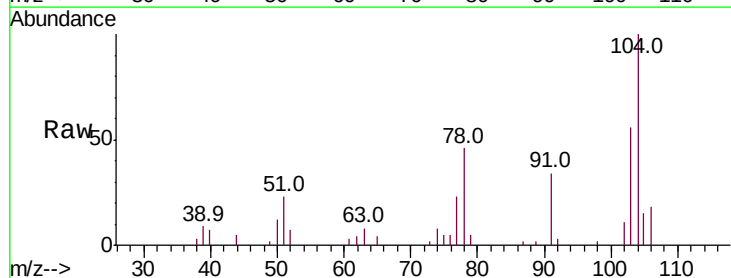
Acq: 07 Aug 2019 13:20

Tgt Ion:104 Resp: 10531

Ion Ratio Lower Upper

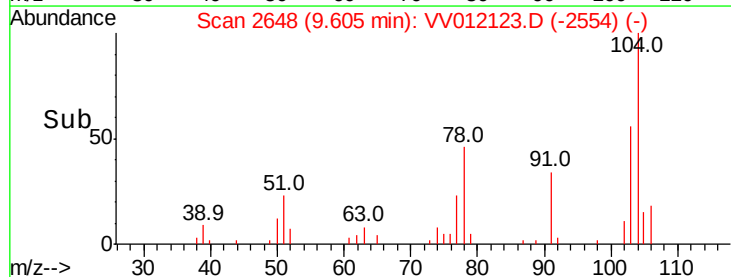
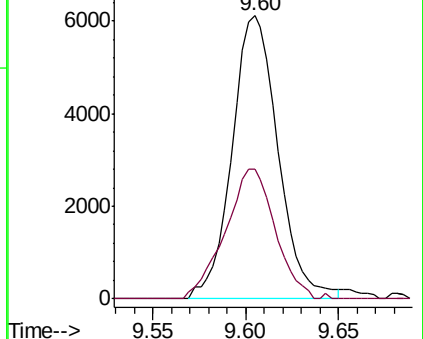
104 100

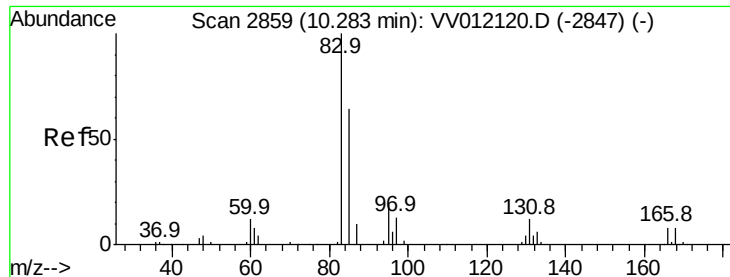
78 45.9 32.0 59.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

1,1,2,2-Tetrachloroethane

Concen: 3.021 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampleId :

MDL03

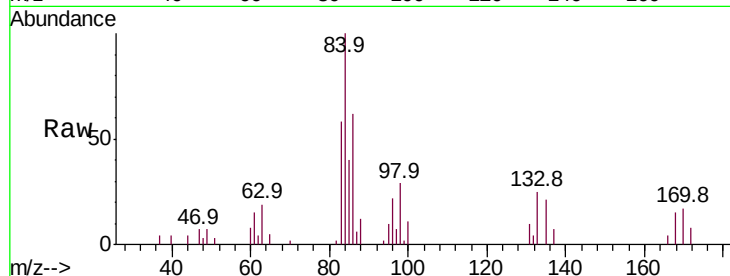
Tot Ion: 83 Resp: 6834

Ion Ratio Lower Upper

83 100

85 68.3 44.6 82.8

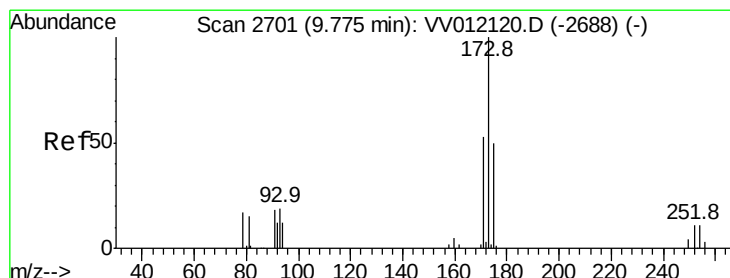
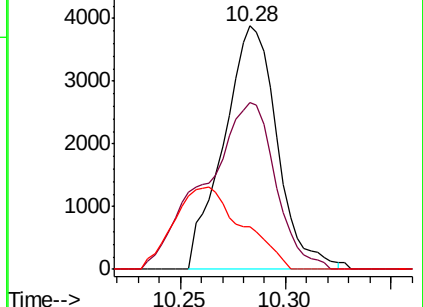
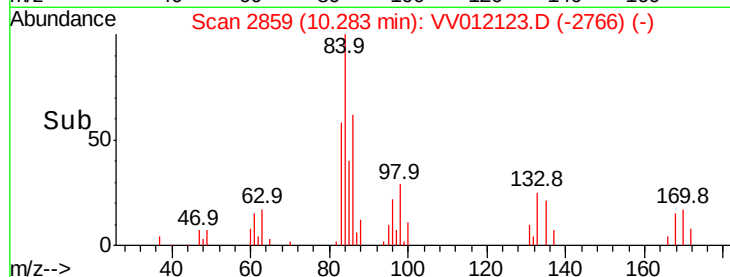
131 17.3 9.3 13.9#



Abundance Ion 83.00 (82.70 to 83.70): VV012123.D (-2766) (-)

Ion 85.00 (84.70 to 85.70): VV012123.D (-2766) (-)

Ion 131.00 (130.70 to 131.70): VV012123.D (-2766) (-)



#59

Bromoform

Concen: 2.790 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

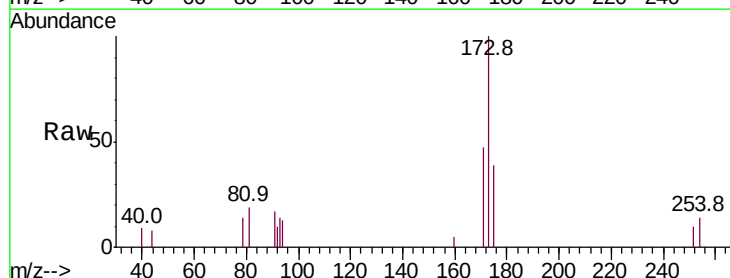
Tgt Ion: 173 Resp: 3876

Ion Ratio Lower Upper

173 100

175 27.6 38.3 57.5#

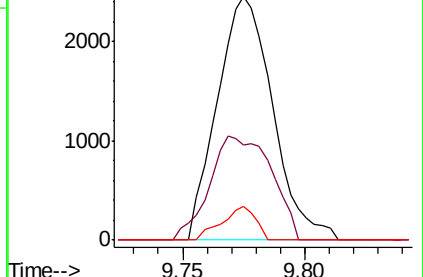
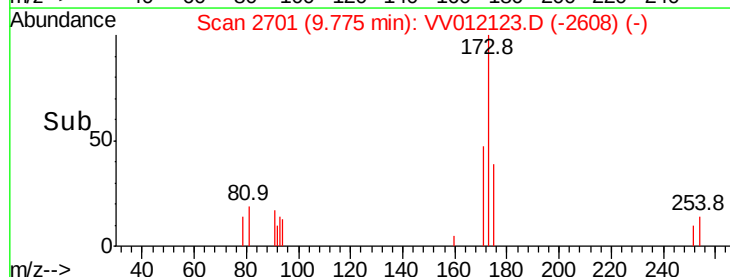
254 8.4 8.9 13.3#

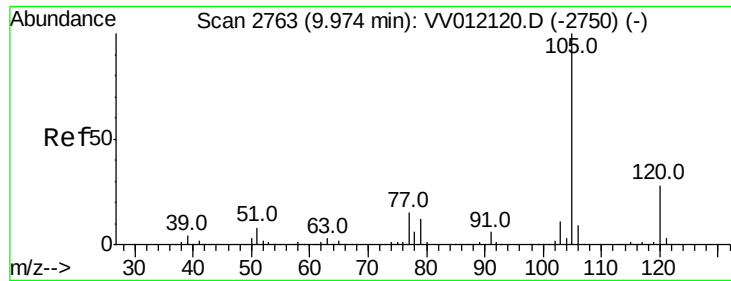


Abundance Ion 173.00 (172.70 to 173.70): VV012123.D (-2608) (-)

Ion 175.00 (174.70 to 175.70): VV012123.D (-2608) (-)

Ion 254.00 (253.70 to 254.70): VV012123.D (-2608) (-)





#60

Isopropylbenzene

Concen: 2.648 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampleId :

MDL03

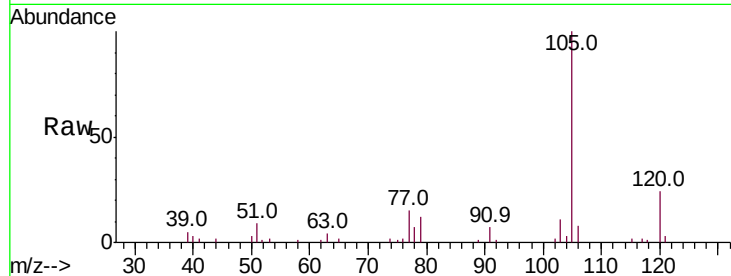
Tot Ion:105 Resp: 17170

Ion Ratio Lower Upper

105 100

120 25.2 21.4 32.0

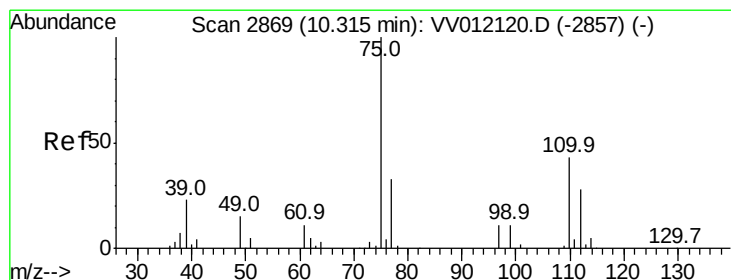
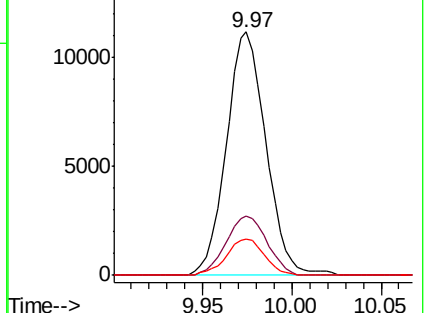
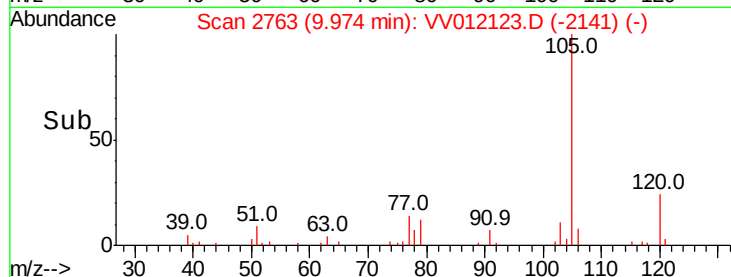
77 14.4 11.6 17.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 2.848 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

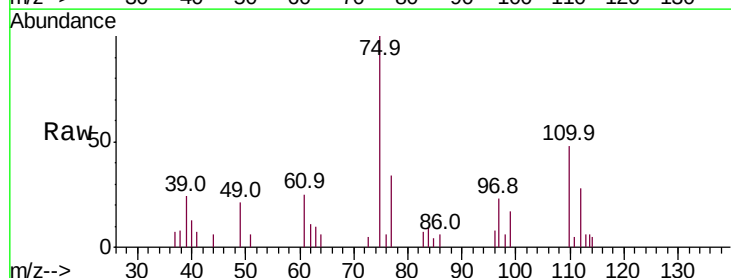
Tgt Ion: 75 Resp: 4580

Ion Ratio Lower Upper

75 100

77 37.6 25.7 38.5

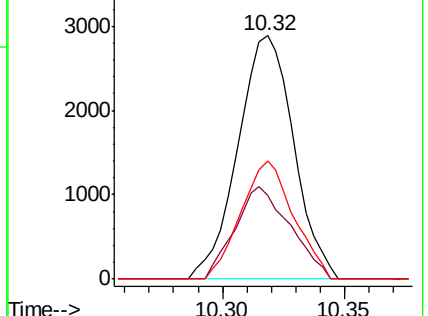
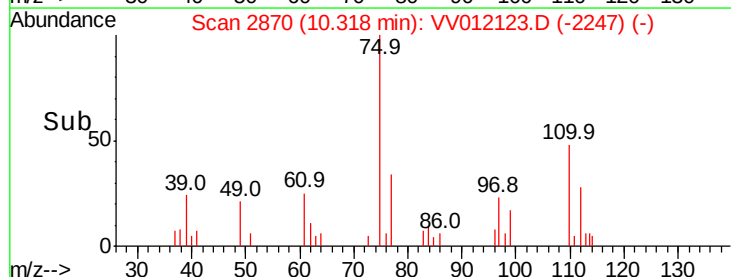
110 45.6 34.2 51.4

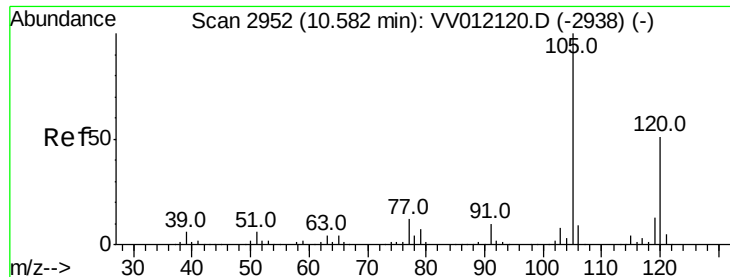


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V

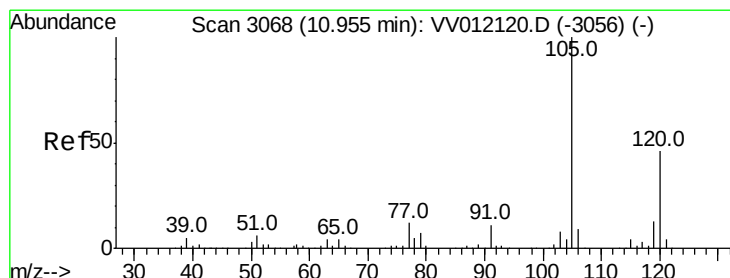
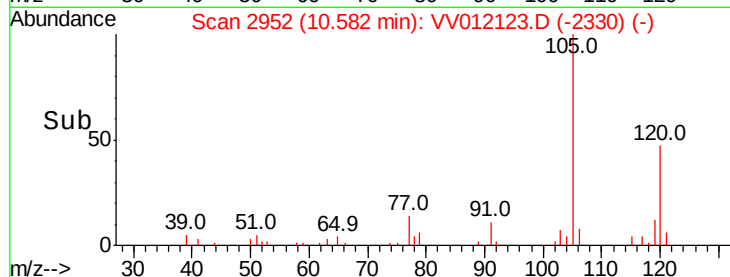
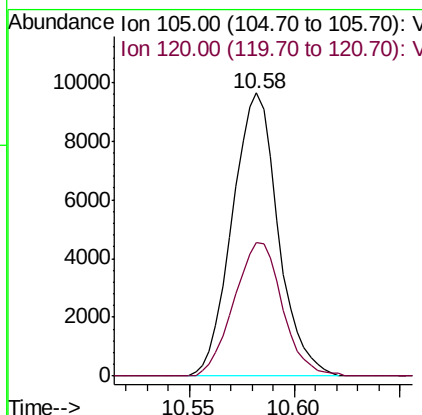
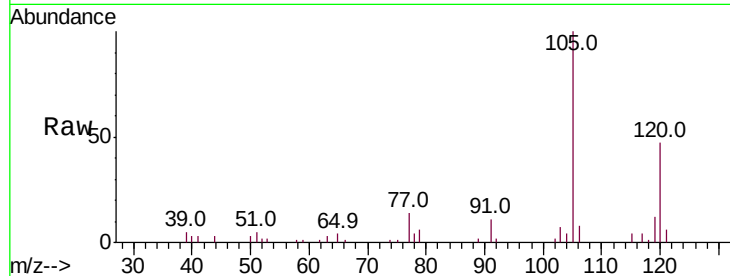




#62
 1,3,5-Trimethylbenzene
 Concen: 2.601 ug/L
 RT: 10.58 min Scan# 2952
 Delta R.T. 0.00 min
 Lab File: VV012123.D
 Acq: 07 Aug 2019 13:20

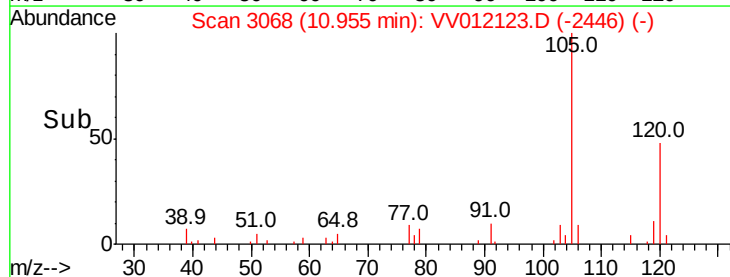
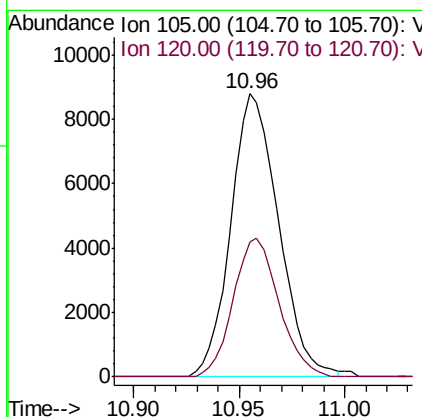
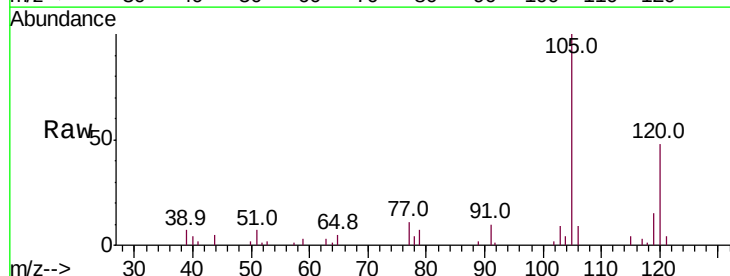
Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

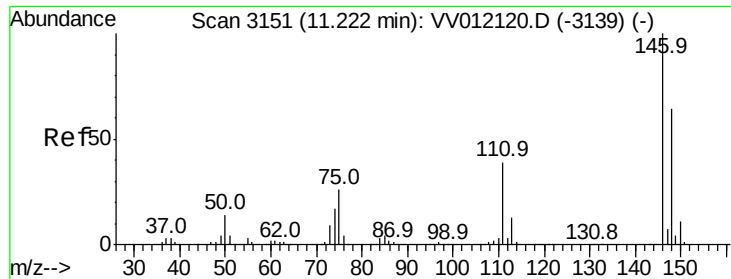
Tot Ion:105 Resp: 14578
 Ion Ratio Lower Upper
 105 100
 120 49.6 39.2 58.8



#63
 1,2,4-Trimethylbenzene
 Concen: 2.500 ug/L
 RT: 10.96 min Scan# 3068
 Delta R.T. 0.00 min
 Lab File: VV012123.D
 Acq: 07 Aug 2019 13:20

Tgt Ion:105 Resp: 13829
 Ion Ratio Lower Upper
 105 100
 120 47.0 36.7 55.1





#64

1,3-Dichlorobenzene

Concen: 2.695 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampled :

MDL03

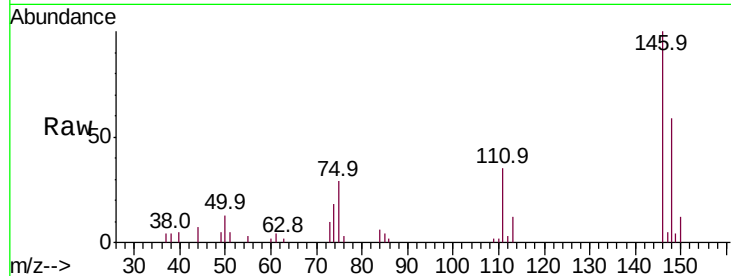
Tot Ion:146 Resp: 8817

Ion Ratio Lower Upper

146 100

111 34.8 26.8 49.8

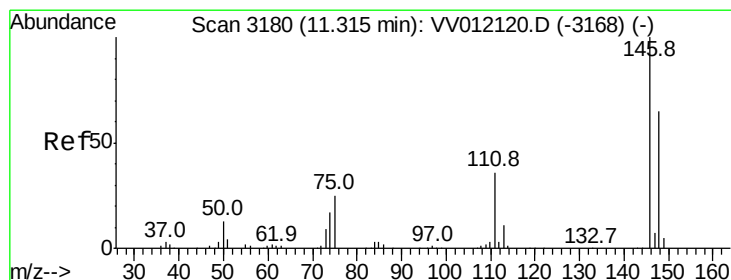
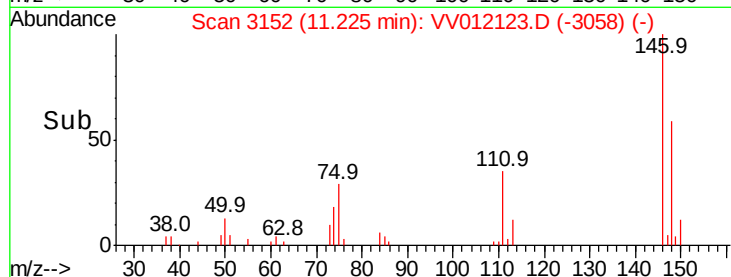
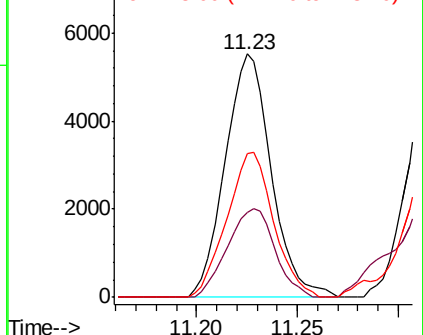
148 59.1 44.6 82.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 2.552 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

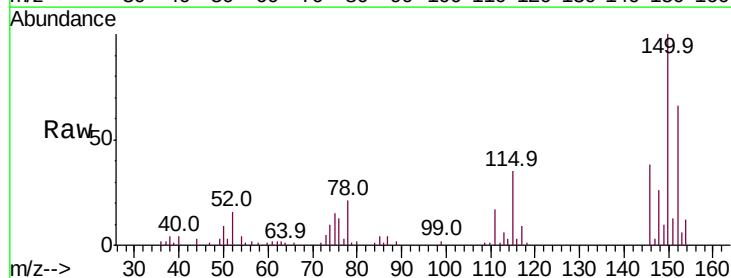
Tgt Ion:146 Resp: 8438

Ion Ratio Lower Upper

146 100

111 45.2 25.8 47.8

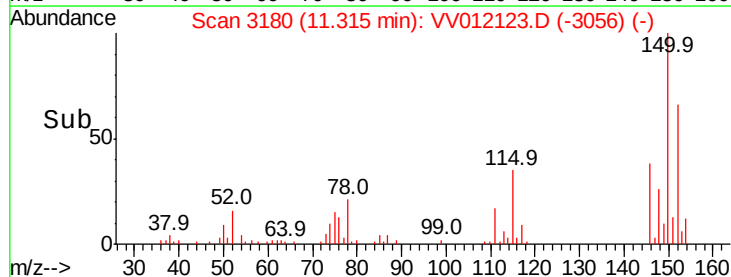
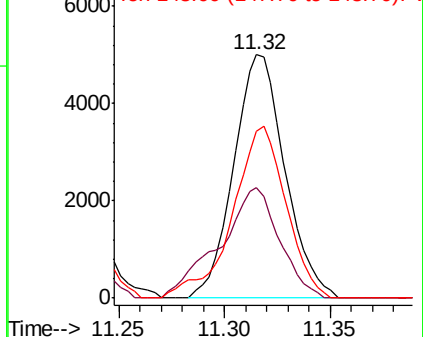
148 68.7 45.2 84.0

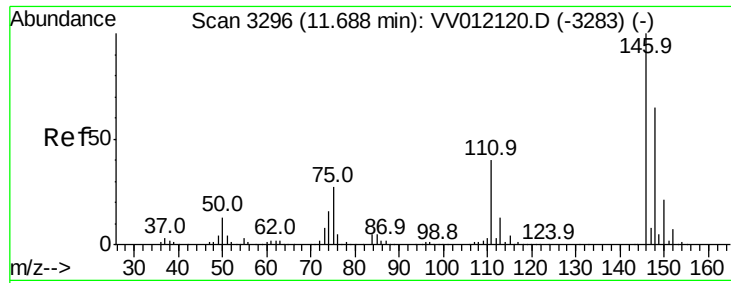


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

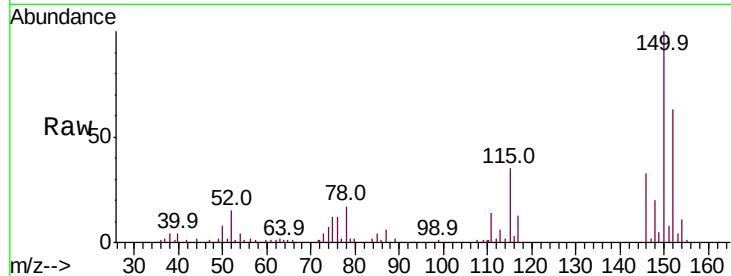




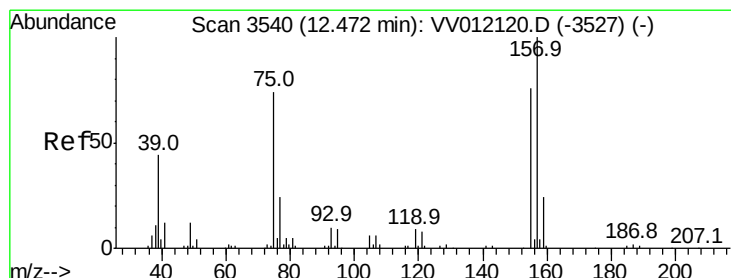
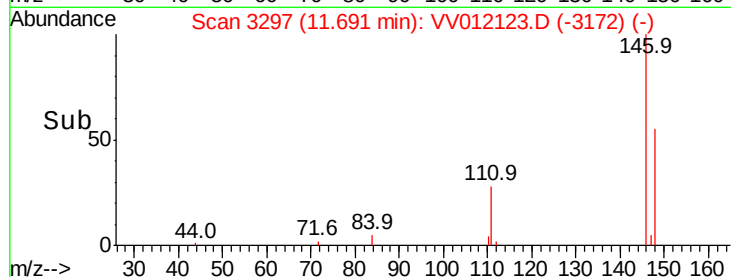
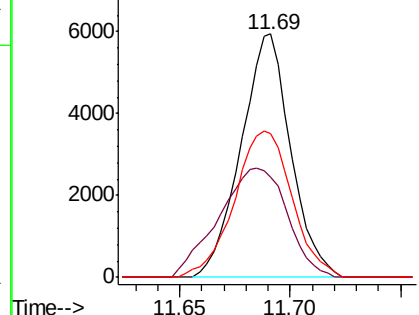
#67
 1,2-Dichlorobenzene
 Concen: 2.787 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV012123.D
 Acq: 07 Aug 2019 13:20

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion:146 Resp: 9301
 Ion Ratio Lower Upper
 146 100
 111 41.4 32.2 48.2
 148 58.9 53.2 79.8

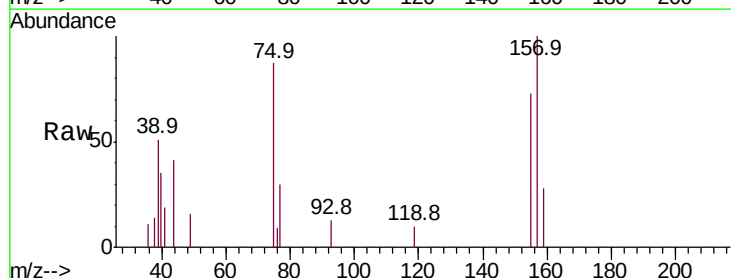


Abundance Ion 146.00 (145.70 to 146.70): V
 8000 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

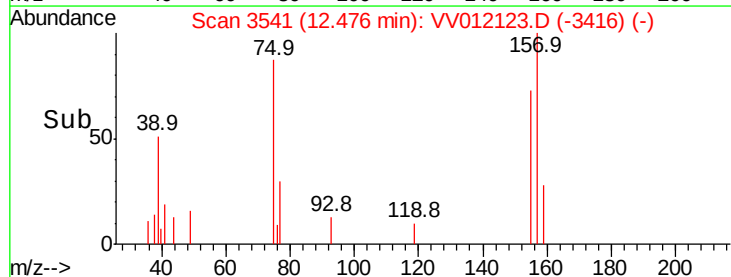
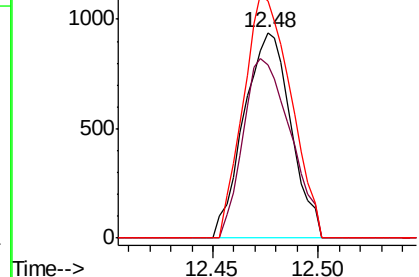


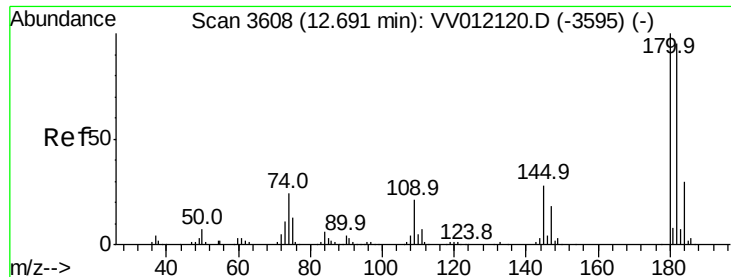
#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.736 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV012123.D
 Acq: 07 Aug 2019 13:20

Tgt Ion: 75 Resp: 1450
 Ion Ratio Lower Upper
 75 100
 155 84.2 81.2 121.8
 157 115.5 102.3 153.5



Abundance Ion 75.00 (74.70 to 75.70): VV0
 1500 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

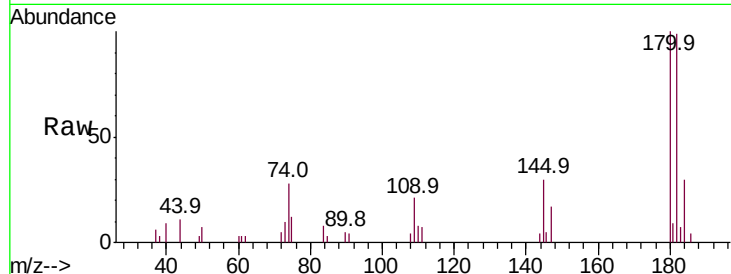




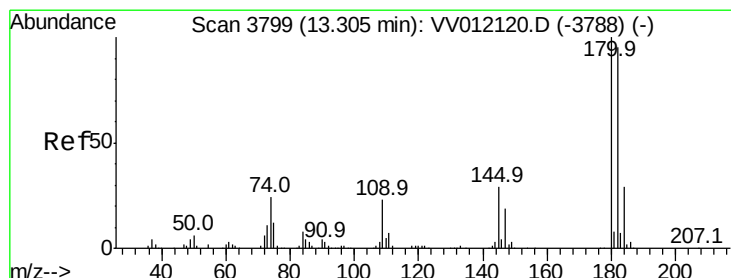
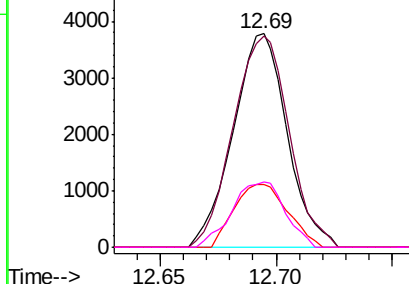
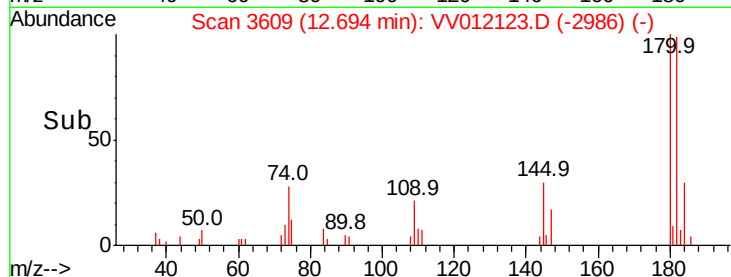
#69
 1,3,5-Trichlorobenzene
 Concen: 2.313 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV012123.D
 Acq: 07 Aug 2019 13:20

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion:180 Resp: 6134
 Ion Ratio Lower Upper
 180 100
 182 102.0 76.5 114.7
 184 29.2 24.6 36.8
 145 29.9 22.5 33.7

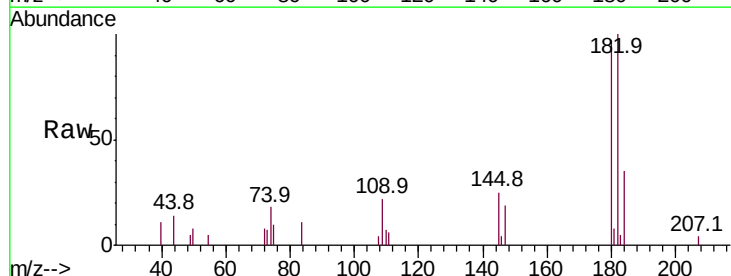


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

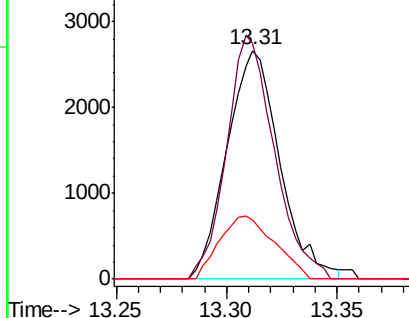
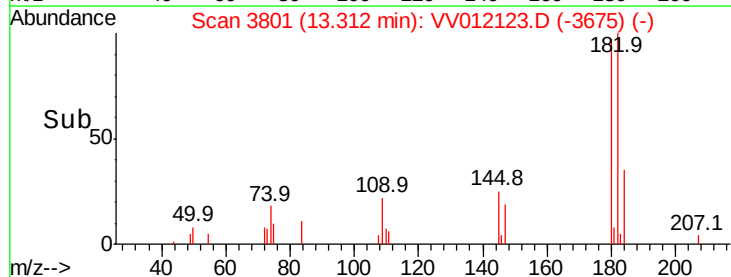


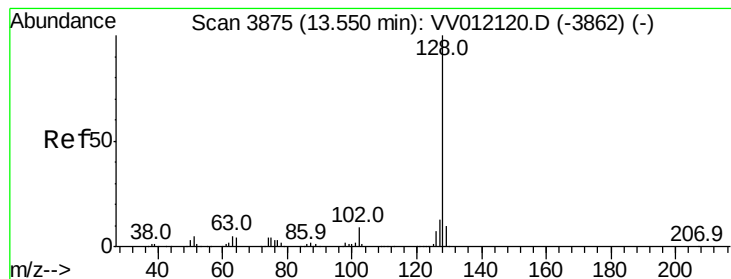
#70
 1,2,4-trichlorobenzene
 Concen: 1.921 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.01 min
 Lab File: VV012123.D
 Acq: 07 Aug 2019 13:20

Tgt Ion:180 Resp: 4418
 Ion Ratio Lower Upper
 180 100
 182 96.9 76.5 114.7
 145 28.7 23.3 34.9



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





#71

Naphthalene

Concen: 1.553 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

Instrument :

MSVOA_V

ClientSampleId :

MDL03

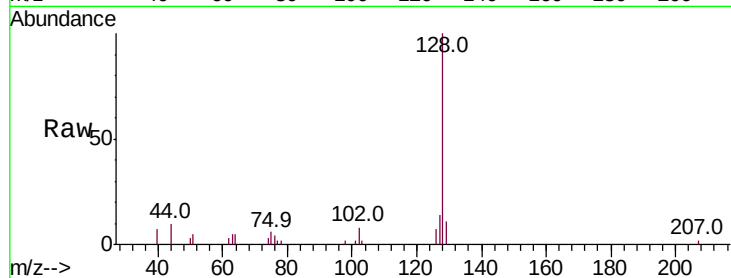
Tot Ion:128 Resp: 9053

Ion Ratio Lower Upper

128 100

127 12.6 10.6 15.8

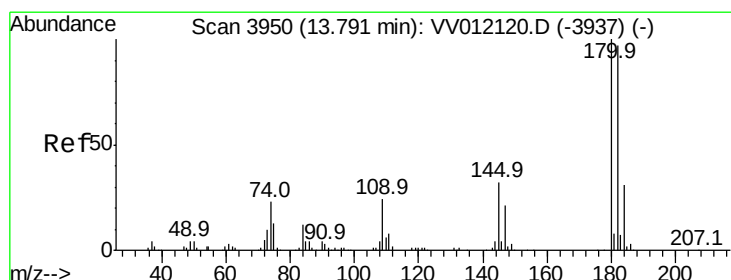
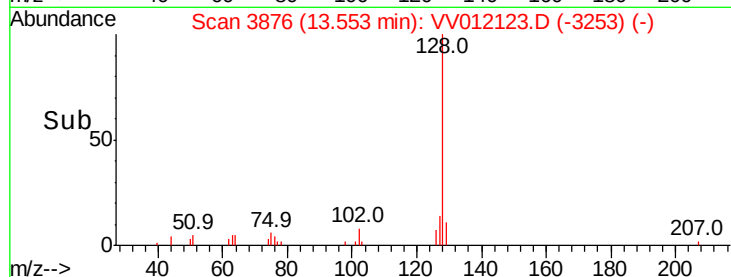
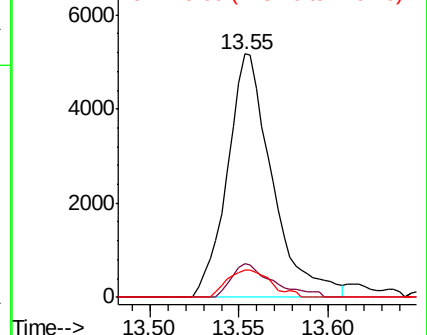
129 10.3 8.6 12.8



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



#72

1,2,3-Trichlorobenzene

Concen: 2.031 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV012123.D

Acq: 07 Aug 2019 13:20

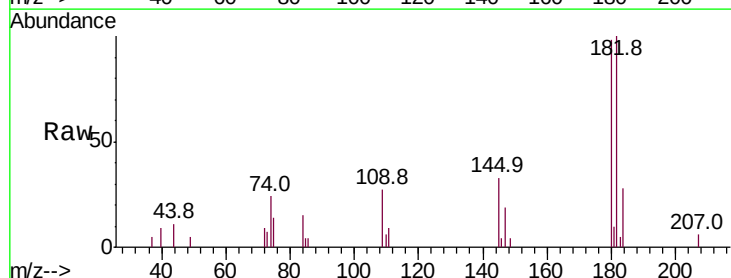
Tgt Ion:180 Resp: 4699

Ion Ratio Lower Upper

180 100

182 96.2 77.2 115.8

145 29.9 24.6 36.8



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

