

Data File : VL036050.D
Acq On : 3 Dec 2020 12:19
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Dec 03 13:08:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Dec 03 12:00:21 2020
QLast Update : Thu Dec 03 12:00:21 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1113260	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3826868	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3491876	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2642257	10.65	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.50%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.03	85	31347	0.150	ppbv	90
3) Chlorodifluoromethane	2.97	51	17568	0.132	ppbv	97
4) Chloromethane	3.13	50	8973	0.139	ppbv	90
5) Vinyl Chloride	3.24	62	3233	0.039	ppbv #	71
6) Bromomethane	3.46	94	7482	0.113	ppbv	94
7) Chloroethane	3.54	64	1689	0.058	ppbv	95
8) Dichlorotetrafluoroethane	3.17	85	27795	0.116	ppbv	92
9) Propene	2.99	41	2234	0.046	ppbv #	14
10) Heptane	8.11	43	7774	0.058	ppbv	93
11) Trichlorofluoromethane	3.93	101	28083	0.107	ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.47	101	24173	0.123	ppbv	95
14) Bromoethene	3.73	108	8414	0.093	ppbv #	85
15) Acetone	3.85	43	23771	0.200	ppbv #	47
16) 1,3-Butadiene	3.31	39	2945	0.057	ppbv #	1
18) 1,1-Dichloroethene	4.28	96	9924	0.110	ppbv #	78
20) Methylene Chloride	4.33	84	20600	0.246	ppbv	95
21) Allyl Chloride	4.39	41	4769	0.074	ppbv #	43
23) Vinyl Acetate	5.06	43	6149	0.037	ppbv #	83
24) 1,1-Dichloroethane	4.99	63	16963	0.107	ppbv #	92
25) Ethyl Acetate	5.67	43	20889	0.089	ppbv #	94
26) Hexane	5.67	57	13840	0.107	ppbv #	90
27) Carbon Disulfide	4.54	76	14462	0.075	ppbv #	52
28) Methyl tert-Butyl Ether	5.04	73	15558	0.067	ppbv	97
29) Chloroform	5.74	83	27927	0.110	ppbv	97
31) cis-1,2-Dichloroethene	5.53	61	7332	0.055	ppbv	94
32) 1,1,1-Trichloroethane	6.50	97	21938	0.083	ppbv	93
35) Carbon Tetrachloride	7.00	117	20645	0.101	ppbv	87
36) Benzene	6.87	78	19282	0.068	ppbv	97
37) 1,2-Dichloroethane	6.29	62	10283	0.080	ppbv #	84
38) Trichloroethene	7.82	130	10323	0.074	ppbv	88
39) 1,2-Dichloropropane	7.16	63	801159	8.364	ppbv #	30
42) Bromodichloromethane	7.77	83	10090	0.046	ppbv	88
44) 2,2,4-Trimethylpentane	7.85	57	26458	0.070	ppbv #	82
47) 1,1,2-Trichloroethane	9.46	97	12923	0.099	ppbv #	79
52) Tetrachloroethene	11.21	164	9897	0.073	ppbv #	85
54) 1,2-Dibromoethane	10.60	107	11111	0.056	ppbv	83
56) 1,1,1,2-Tetrachloroethane	12.11	131	8794	0.056	ppbv #	20
57) Chlorobenzene	12.13	112	19886	0.072	ppbv #	73
60) o-Xylene	13.68	91	11453	0.033	ppbv #	33
62) Isopropylbenzene	14.66	105	36262	0.066	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.67	83	23542	0.087	ppbv	86

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120320\
Quantitation Report (Not Reviewed)

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Quant Time: Dec 03 13:08:13 2020
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Dec 03 12:00:21 2020
QLast Update : Thu Dec 03 12:00:21 2020
Response via : Initial Calibration

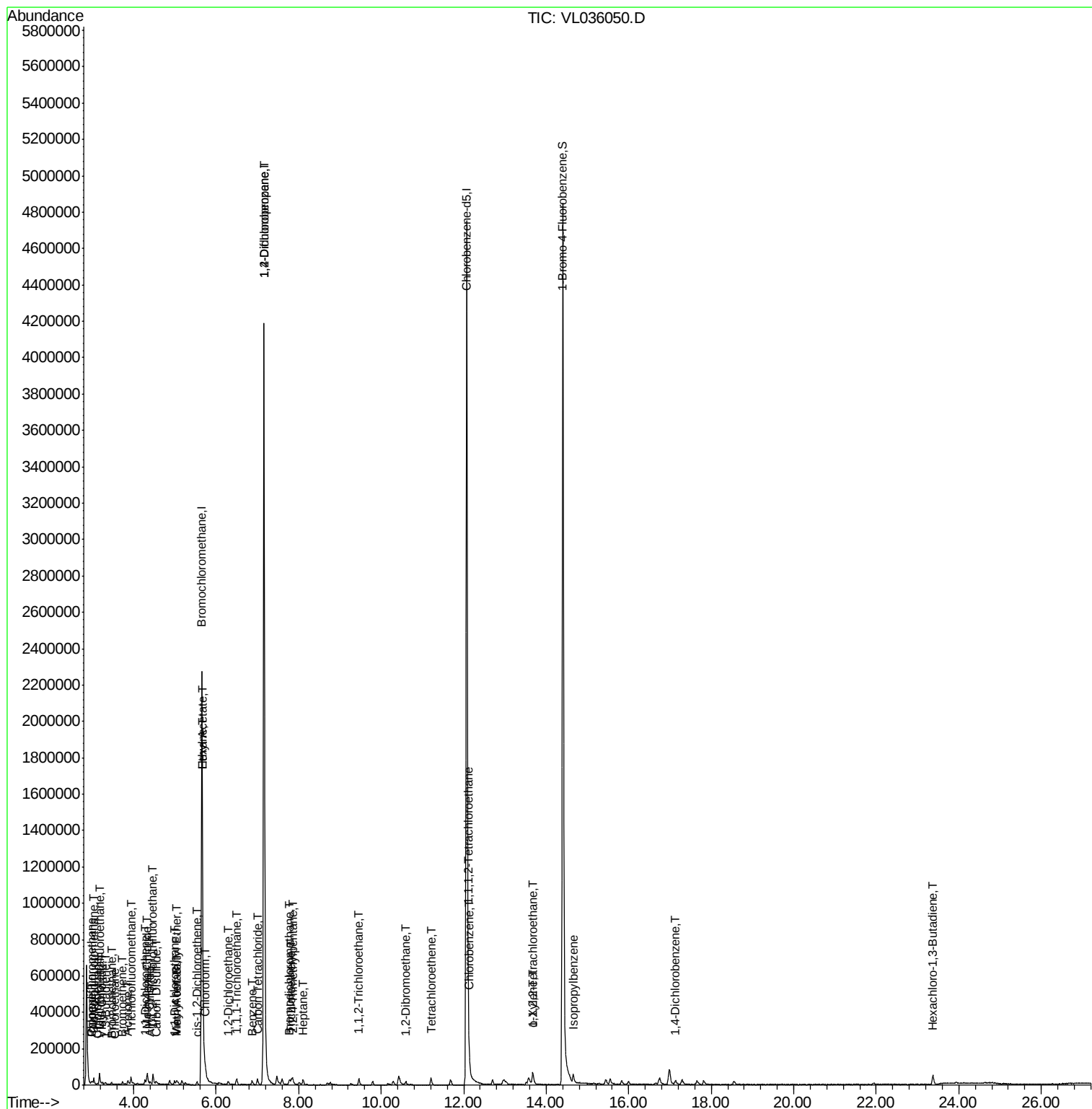
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-Dichlorobenzene	17.13	146	11358	0.044	ppbv	67
78) Hexachloro-1,3-Butadiene	23.37	225	6375	0.053	ppbv #	18

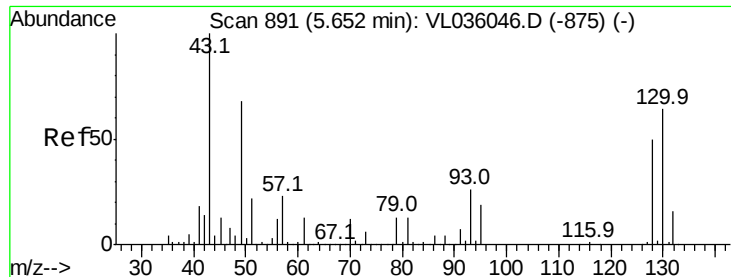
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

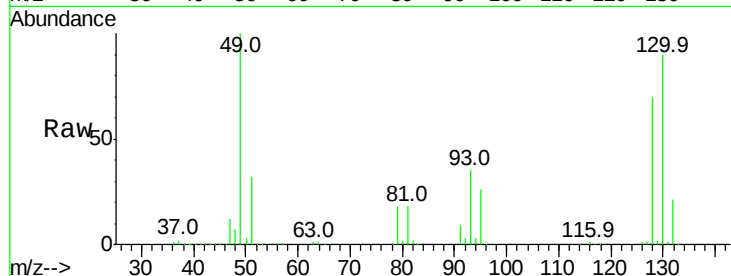
Tgt Ion: 49 Resp: 1113260

Ion Ratio Lower Upper

49 100

128 74.4 38.3 114.8

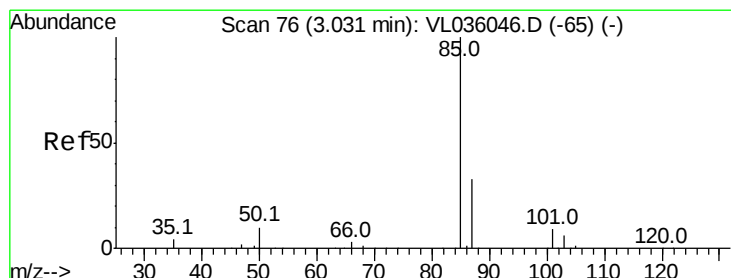
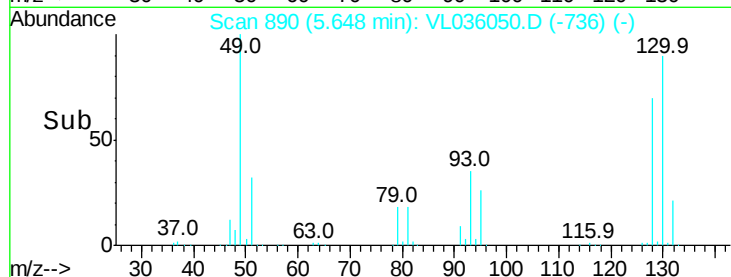
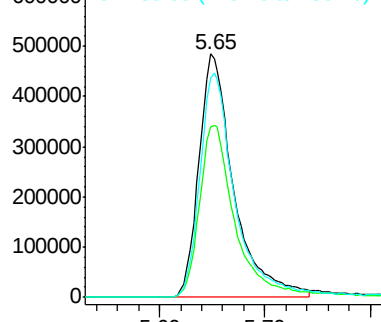
130 95.7 49.1 147.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.150 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL036050.D

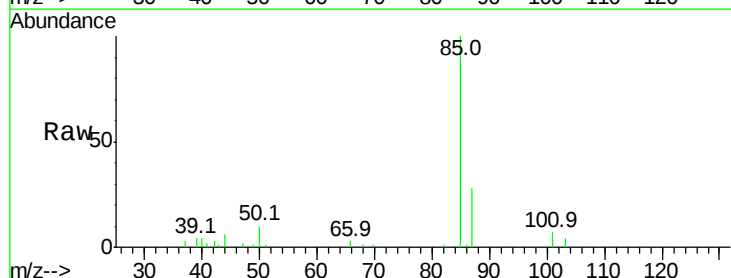
Acq: 3 Dec 2020 12:19

Tgt Ion: 85 Resp: 31347

Ion Ratio Lower Upper

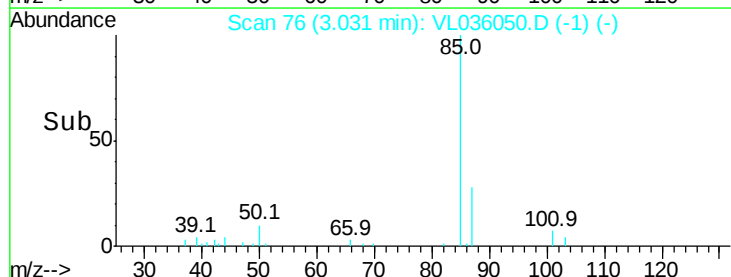
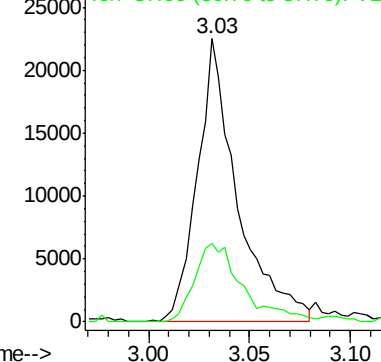
85 100

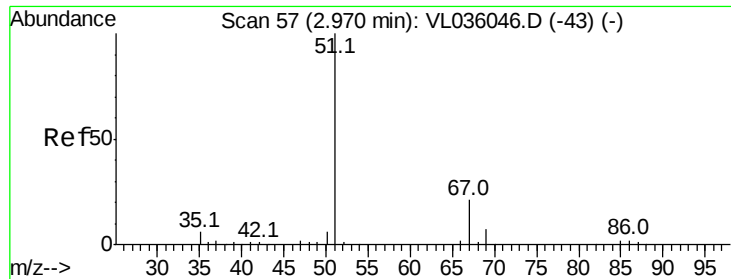
87 27.9 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.132 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

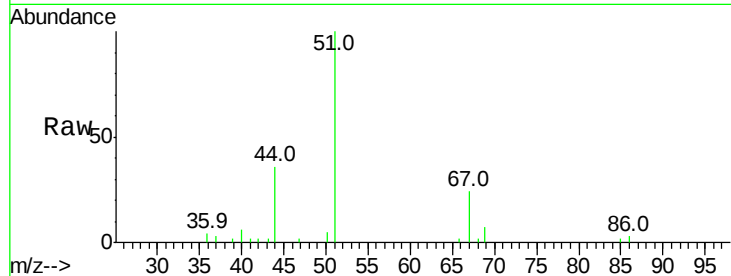
VSTDIC0.1

Tgt Ion: 51 Resp: 17568

Ion Ratio Lower Upper

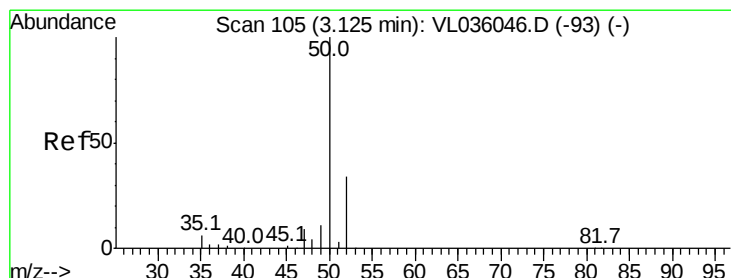
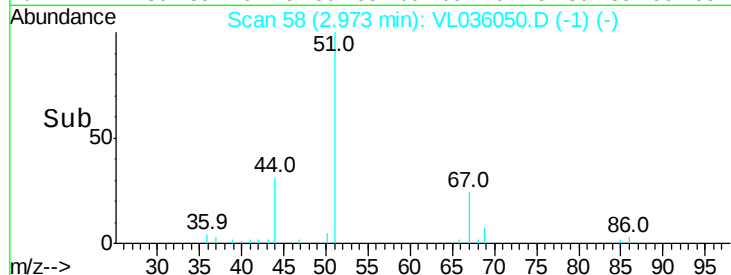
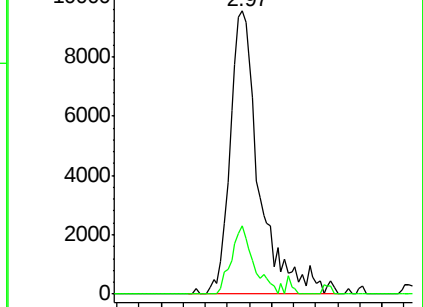
51 100

67 19.7 16.9 25.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.139 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL036050.D

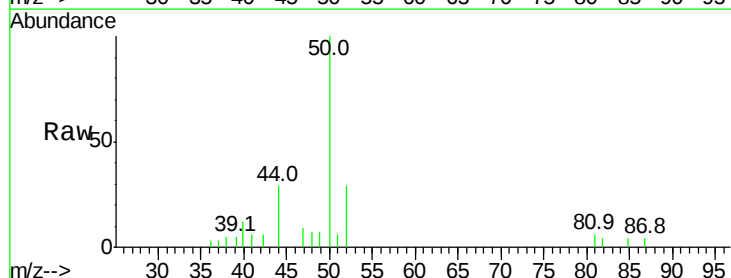
Acq: 3 Dec 2020 12:19

Tgt Ion: 50 Resp: 8973

Ion Ratio Lower Upper

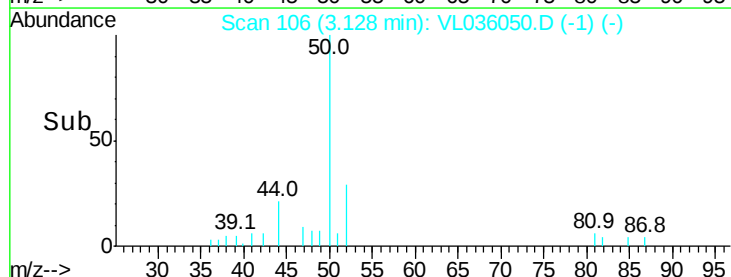
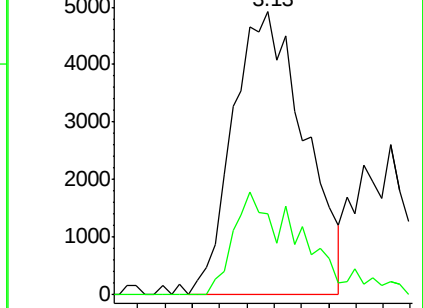
50 100

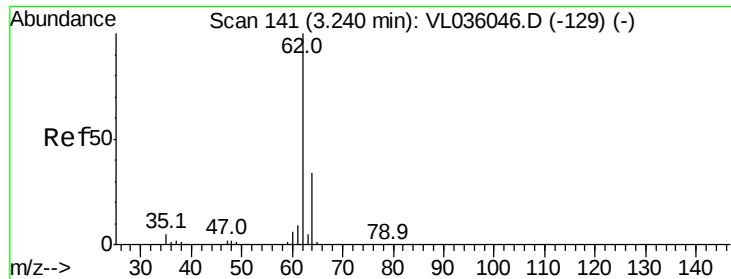
52 28.7 27.6 41.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.039 ppbv

RT: 3.24 min Scan# 140

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

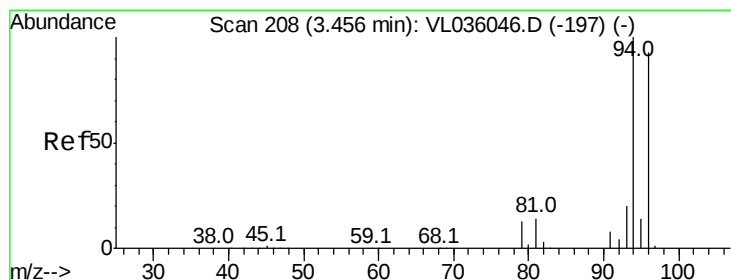
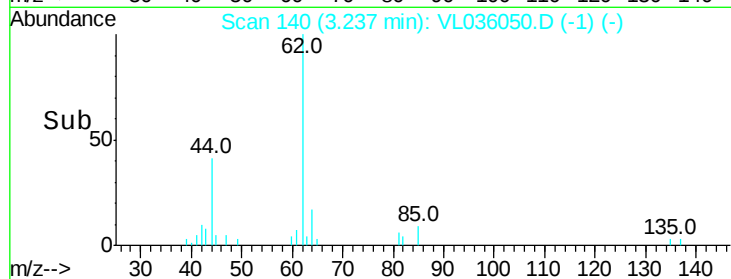
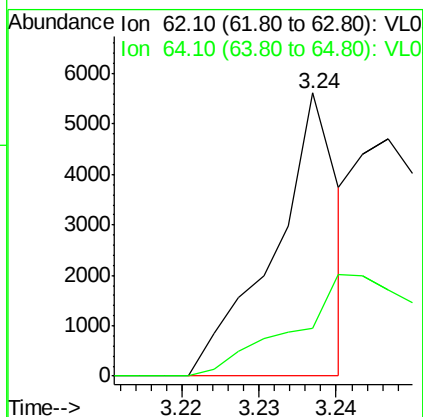
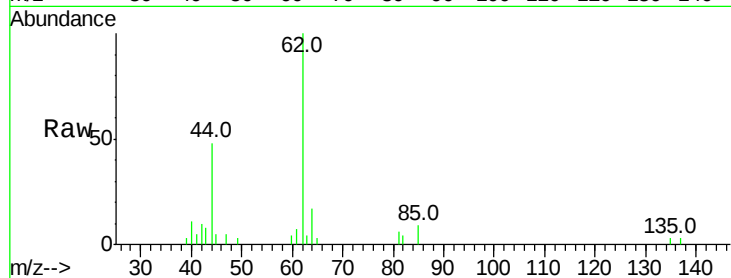
VSTDIC0.1

Tgt Ion: 62 Resp: 3233

Ion Ratio Lower Upper

62 100

64 17.1 26.8 40.2#



#6

Bromomethane

Concen: 0.113 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.01 min

Lab File: VL036050.D

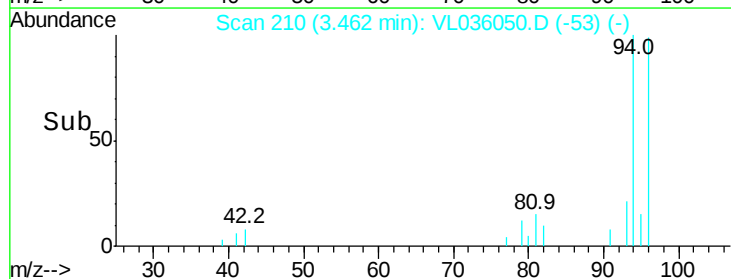
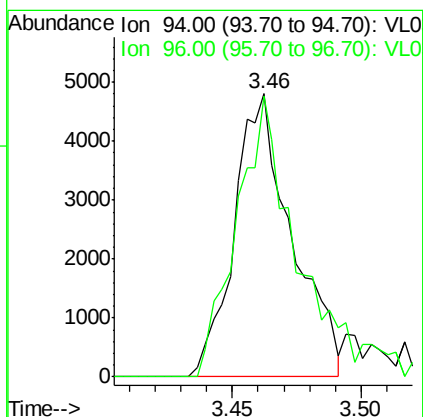
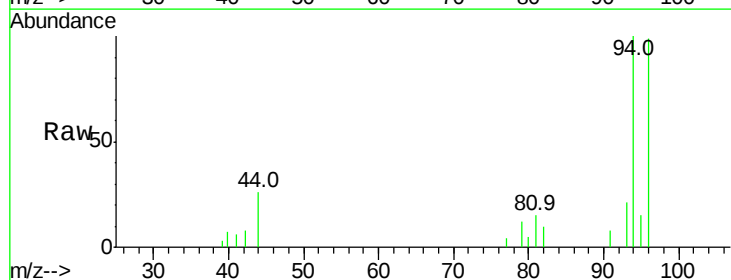
Acq: 3 Dec 2020 12:19

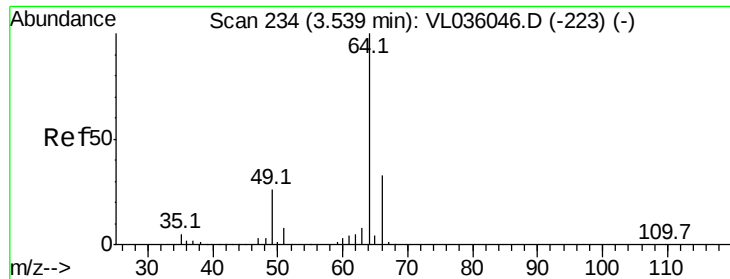
Tgt Ion: 94 Resp: 7482

Ion Ratio Lower Upper

94 100

96 99.2 74.8 112.2





#7

Chloroethane

Concen: 0.058 ppbv

RT: 3.54 min Scan# 235

Delta R.T. 0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

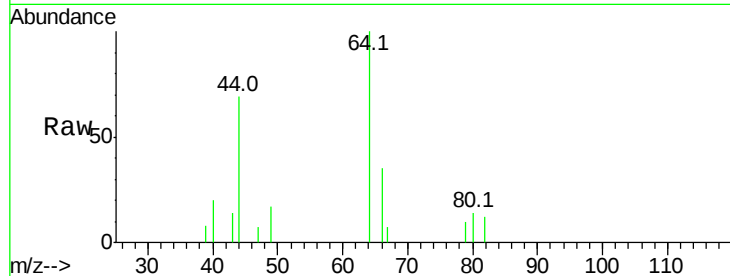
VSTDIC0.1

Tgt Ion: 64 Resp: 1689

Ion Ratio Lower Upper

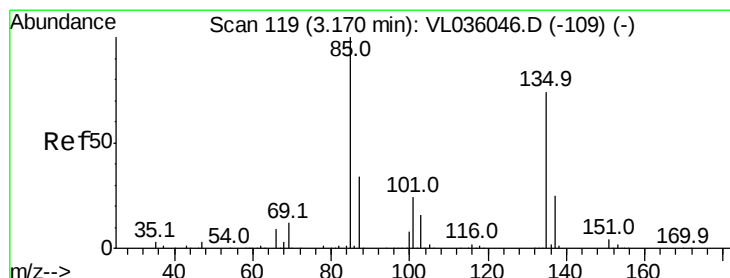
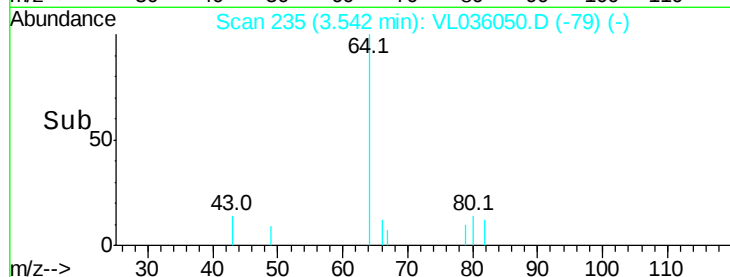
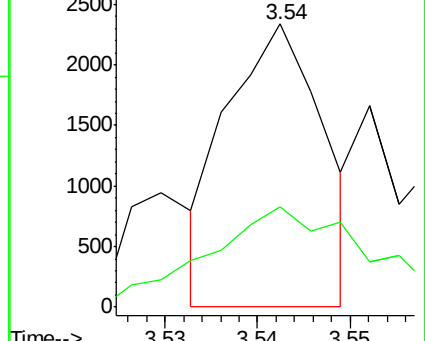
64 100

66 35.4 26.1 39.1



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.116 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.00 min

Lab File: VL036050.D

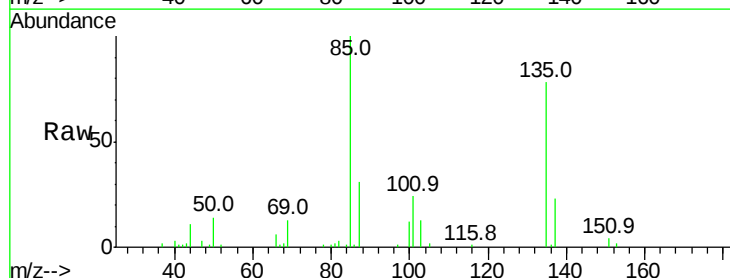
Acq: 3 Dec 2020 12:19

Tgt Ion: 85 Resp: 27795

Ion Ratio Lower Upper

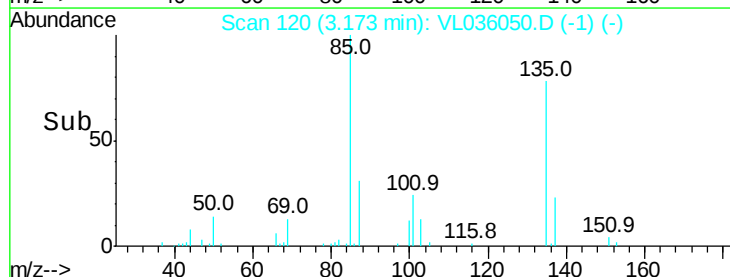
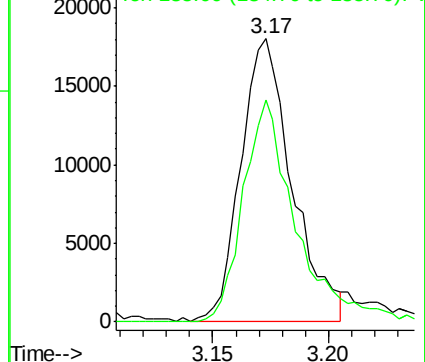
85 100

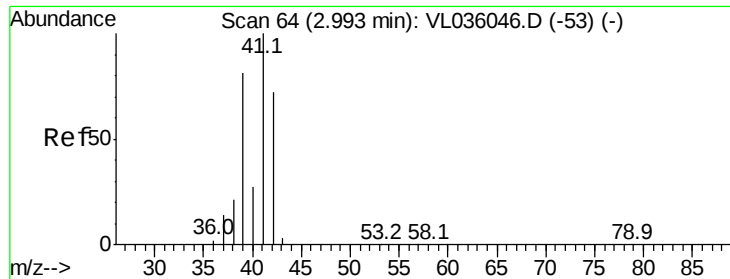
135 82.2 60.2 90.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.046 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

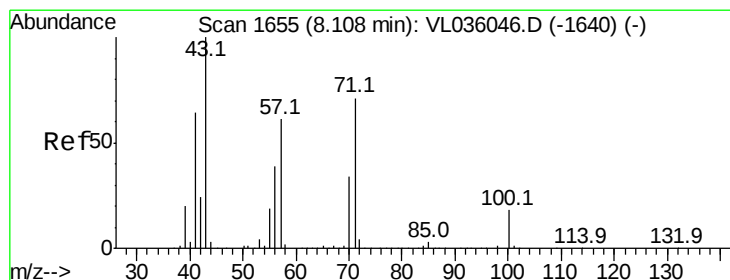
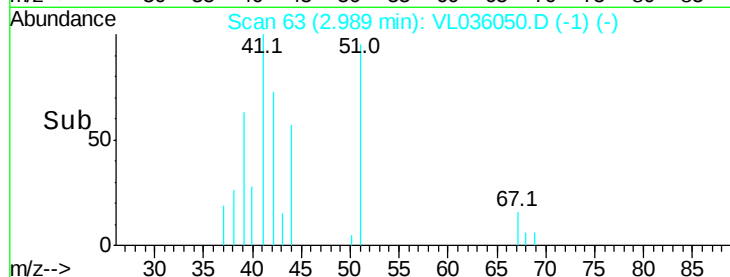
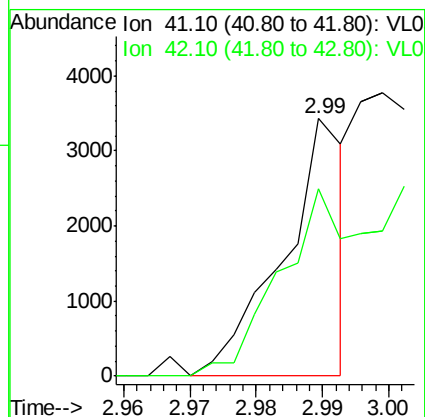
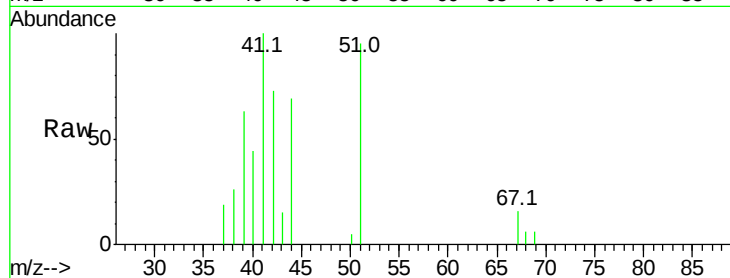
VSTDIC0.1

Tgt Ion: 41 Resp: 2234

Ion Ratio Lower Upper

41 100

42 0.0 56.9 85.3#



#10

Heptane

Concen: 0.058 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VL036050.D

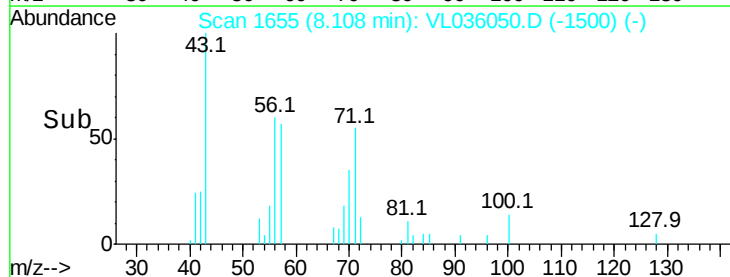
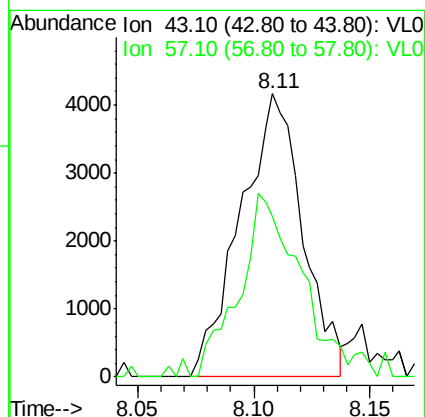
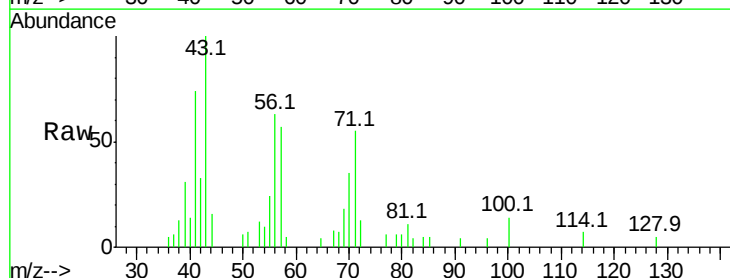
Acq: 3 Dec 2020 12:19

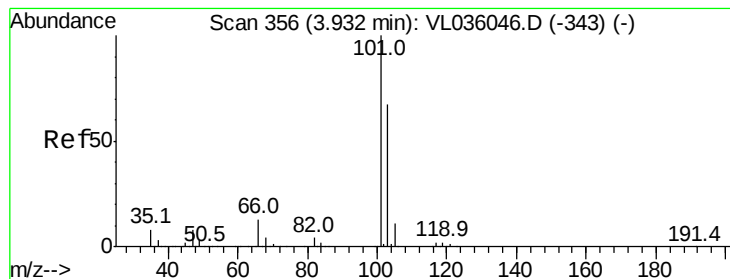
Tgt Ion: 43 Resp: 7774

Ion Ratio Lower Upper

43 100

57 66.8 49.2 73.8





#11

Trichlorofluoromethane

Concen: 0.107 ppbv

RT: 3.93 min Scan# 357

Delta R.T. 0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

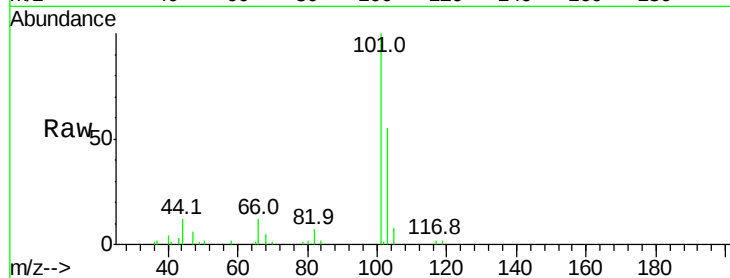
VSTDIC0.1

Tgt Ion:101 Resp: 28083

Ion Ratio Lower Upper

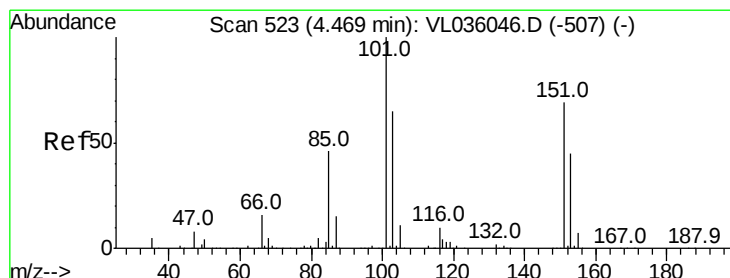
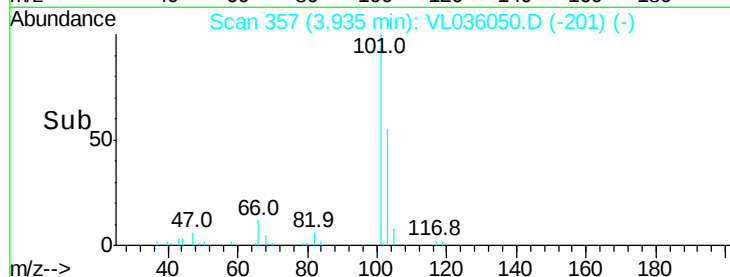
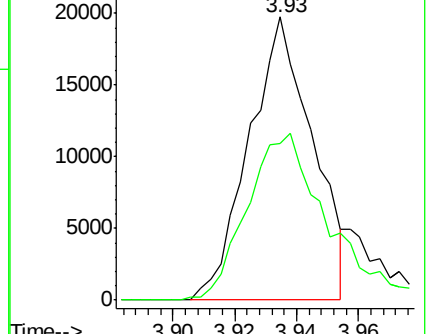
101 100

103 54.1 53.2 79.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.123 ppbv

RT: 4.47 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL036050.D

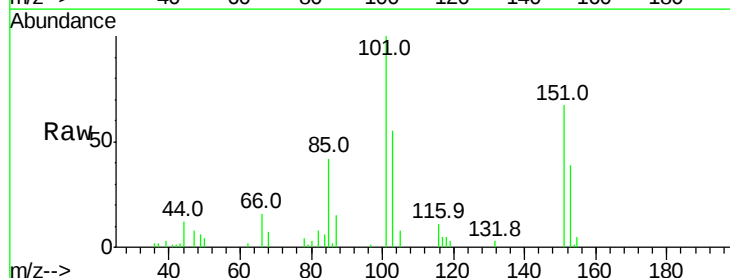
Acq: 3 Dec 2020 12:19

Tgt Ion:101 Resp: 24173

Ion Ratio Lower Upper

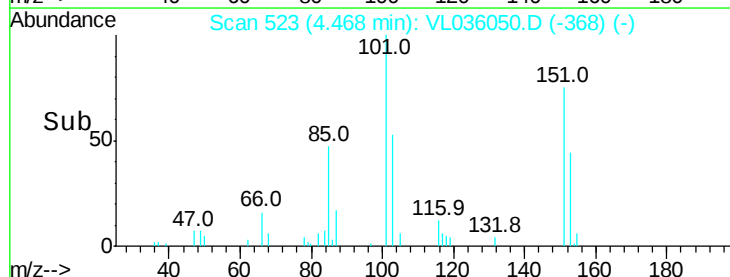
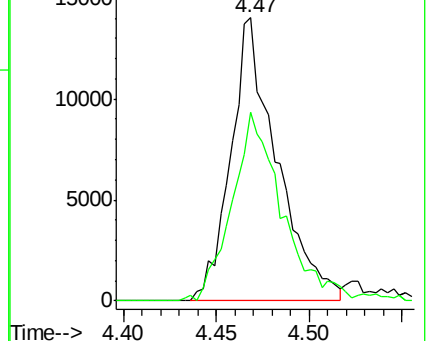
101 100

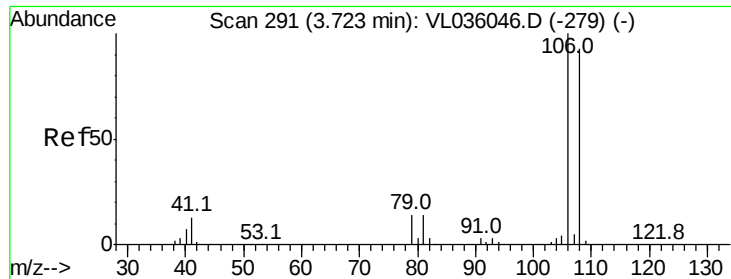
151 73.9 56.1 84.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#14

Bromoethene

Concen: 0.093 ppbv

RT: 3.73 min Scan# 292

Delta R.T. 0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

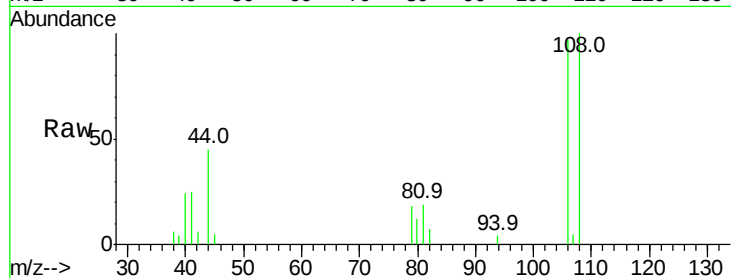
Tgt Ion:108 Resp: 8414

Ion Ratio Lower Upper

108 100

106 121.0 85.0 127.4

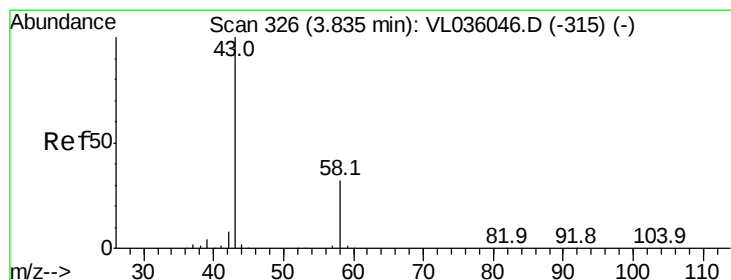
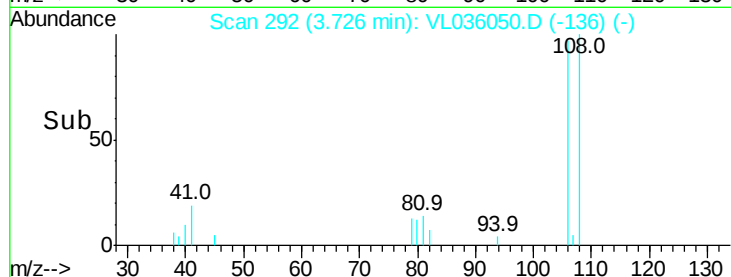
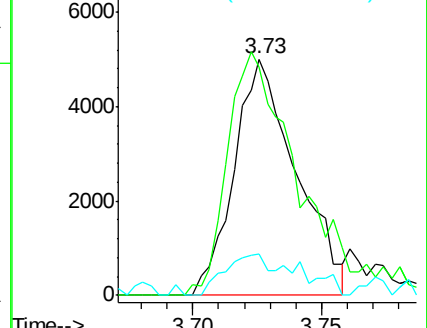
79 22.0 11.9 17.9#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0



#15

Acetone

Concen: 0.200 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.02 min

Lab File: VL036050.D

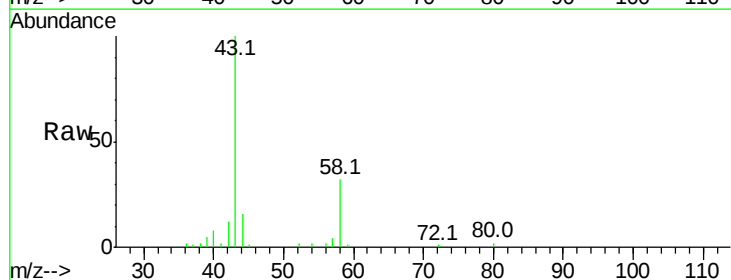
Acq: 3 Dec 2020 12:19

Tgt Ion: 43 Resp: 23771

Ion Ratio Lower Upper

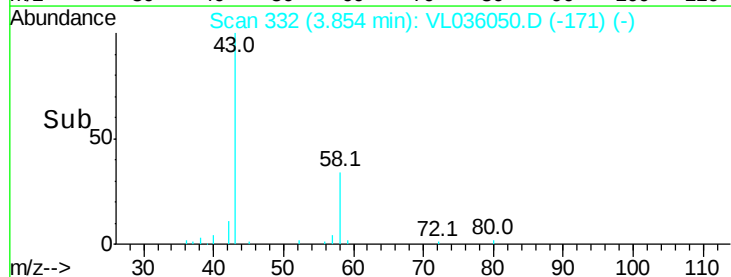
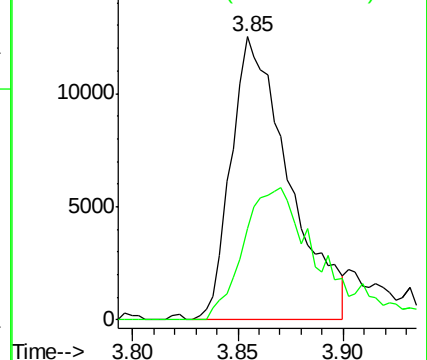
43 100

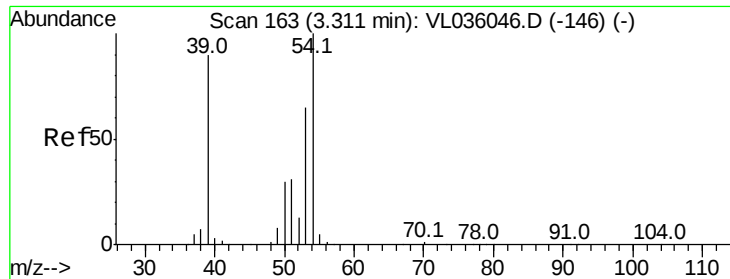
58 64.4 27.0 40.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

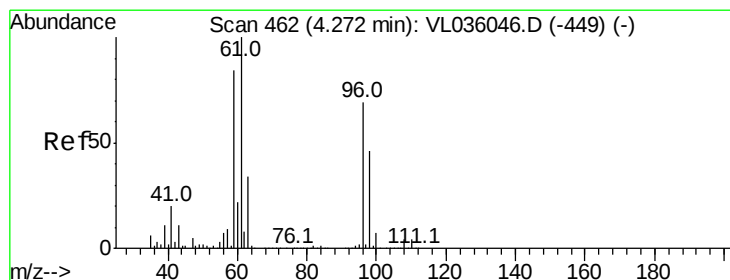
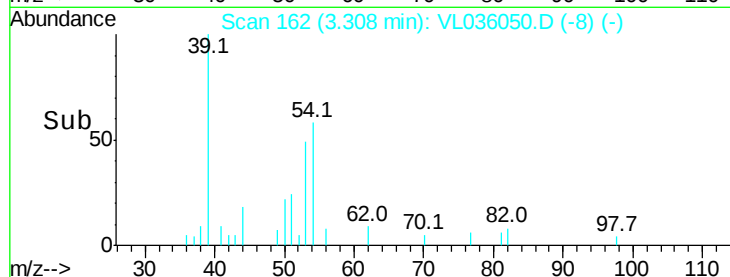
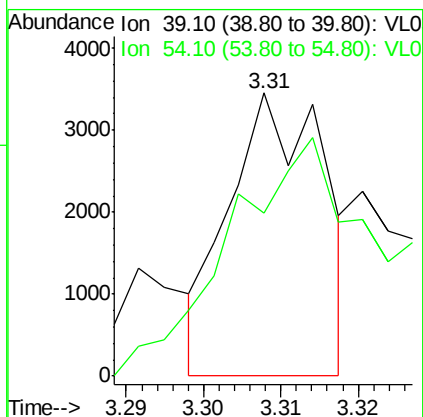
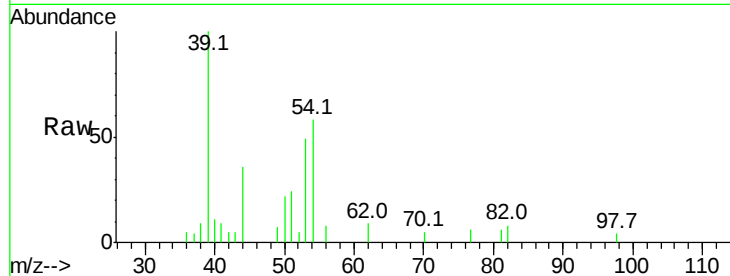




#16
 1,3-Butadiene
 Concen: 0.057 ppbv
 RT: 3.31 min Scan# 162
 Delta R.T. -0.00 min
 Lab File: VL036050.D
 Acq: 3 Dec 2020 12:19

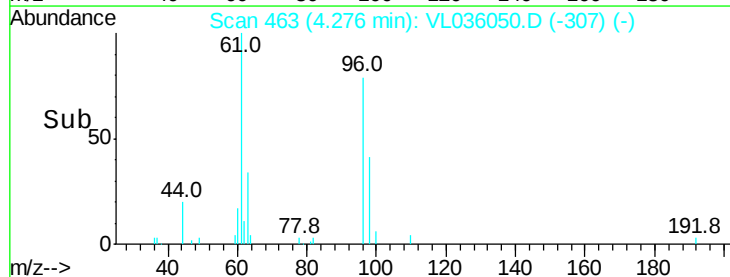
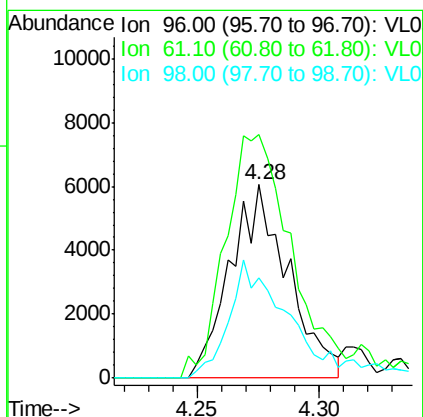
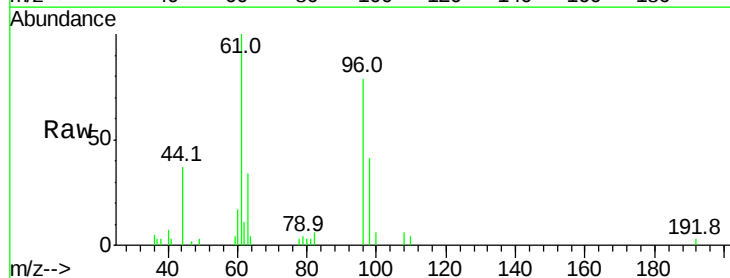
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

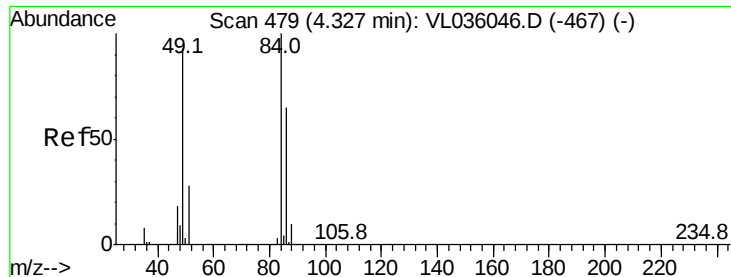
Tgt Ion: 39 Resp: 2945
 Ion Ratio Lower Upper
 39 100
 54 0.0 86.1 129.1#



#18
 1,1-Dichloroethene
 Concen: 0.110 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. 0.00 min
 Lab File: VL036050.D
 Acq: 3 Dec 2020 12:19

Tgt Ion: 96 Resp: 9924
 Ion Ratio Lower Upper
 96 100
 61 114.2 115.8 173.6#
 98 52.1 53.1 79.7#

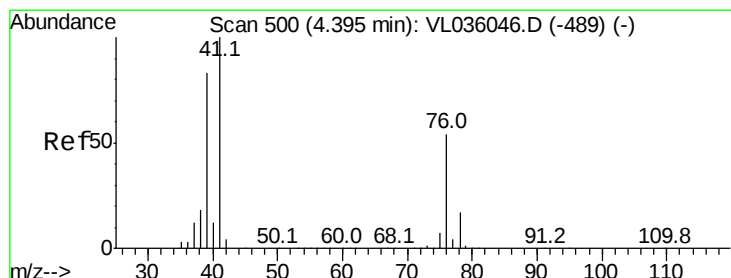
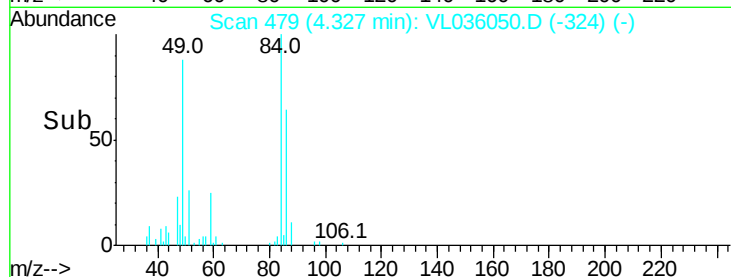
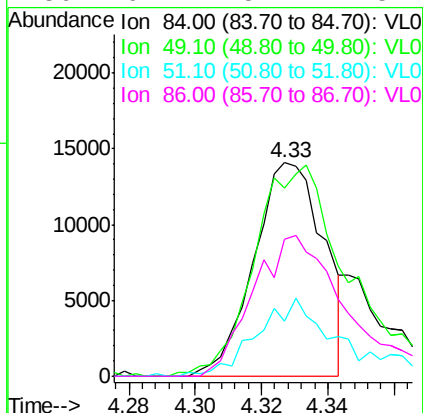
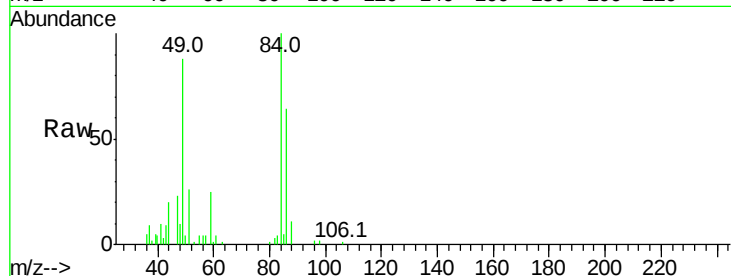




#20
Methylene Chloride
Concen: 0.246 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL036050.D
Acq: 3 Dec 2020 12:19

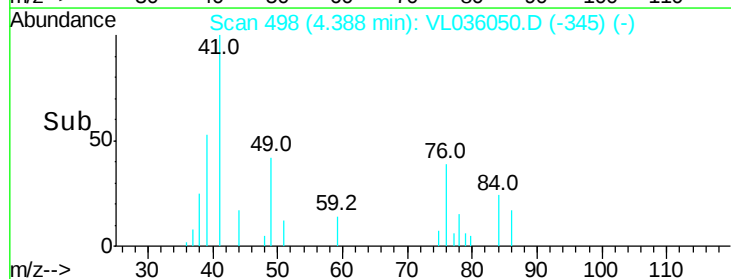
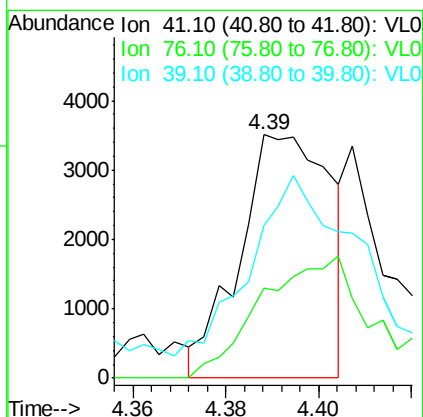
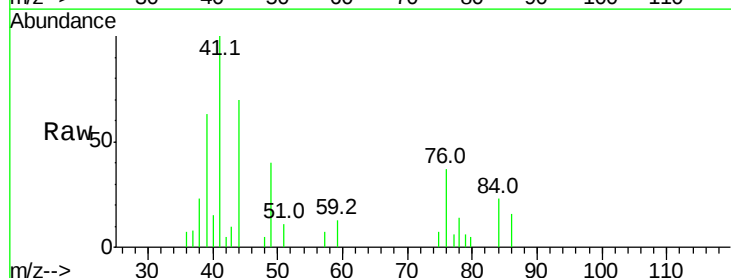
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

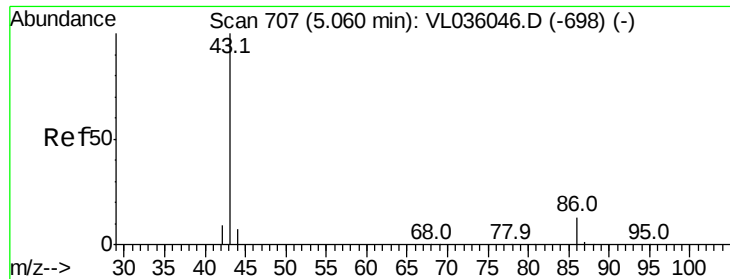
Tgt Ion:	84	Resp:	20600
Ion	Ratio	Lower	Upper
84	100		
49	85.9	74.4	111.6
51	24.2	22.5	33.7
86	64.2	52.2	78.2



#21
Allyl Chloride
Concen: 0.074 ppbv
RT: 4.39 min Scan# 498
Delta R.T. -0.01 min
Lab File: VL036050.D
Acq: 3 Dec 2020 12:19

Tgt Ion:	41	Resp:	4769
Ion	Ratio	Lower	Upper
41	100		
76	0.0	42.4	63.6#
39	128.1	69.0	103.6#





#23

Vinyl Acetate

Concen: 0.037 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

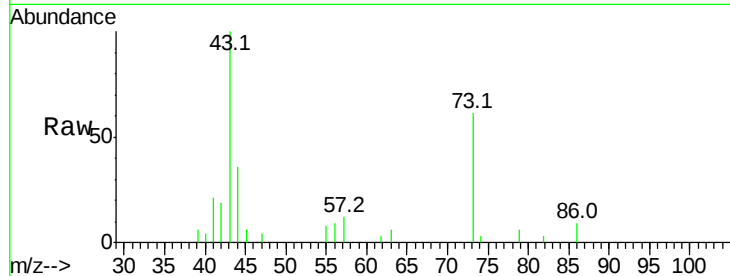
ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 6149

Ion Ratio Lower Upper

43	100		
86	11.0	9.3	13.9
42	18.3	8.1	12.1#
44	19.6	4.7	7.1#

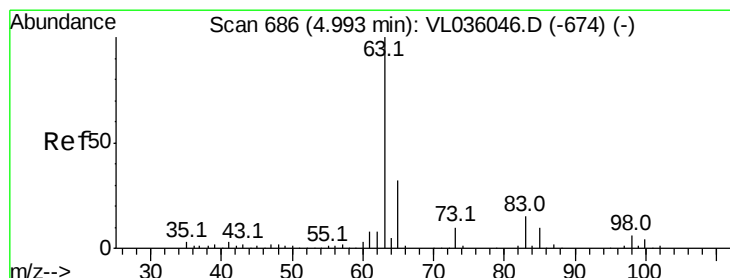
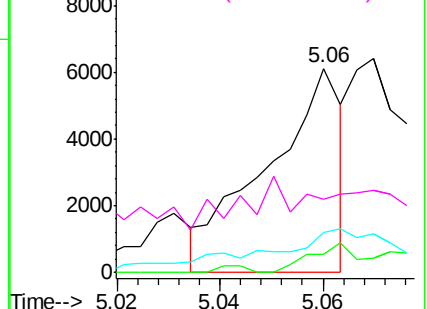
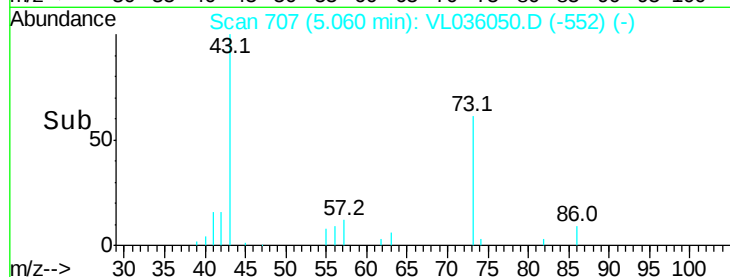


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.107 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.00 min

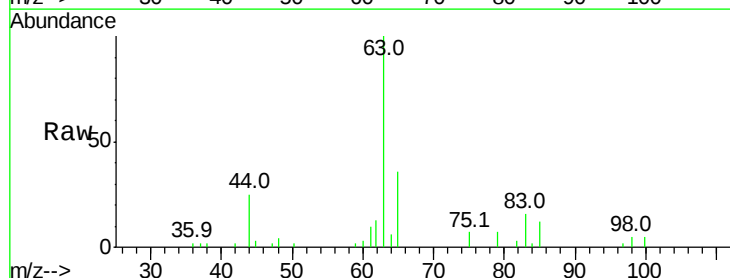
Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Tgt Ion: 63 Resp: 16963

Ion Ratio Lower Upper

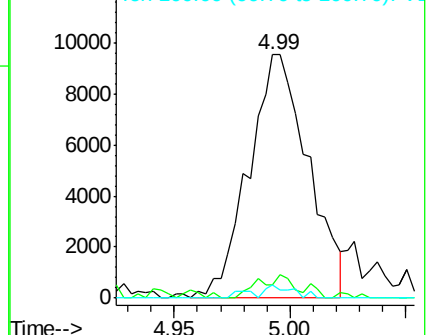
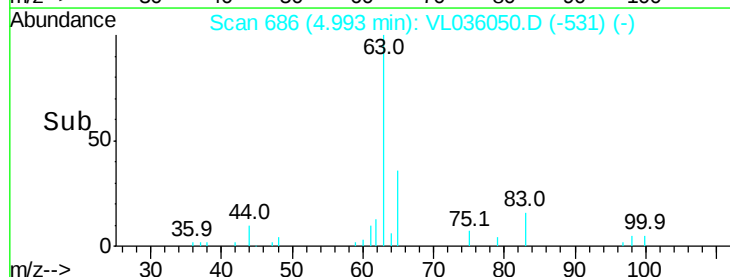
63	100		
98	2.7	3.1	9.3#
100	5.2	1.9	5.7

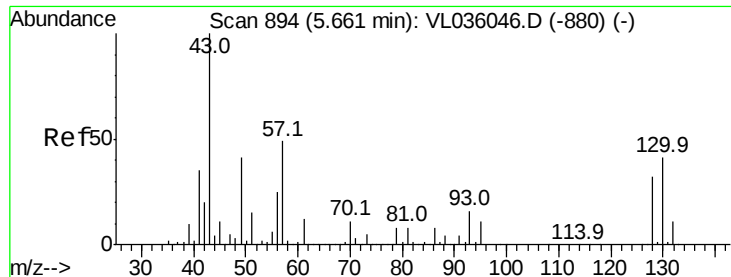


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

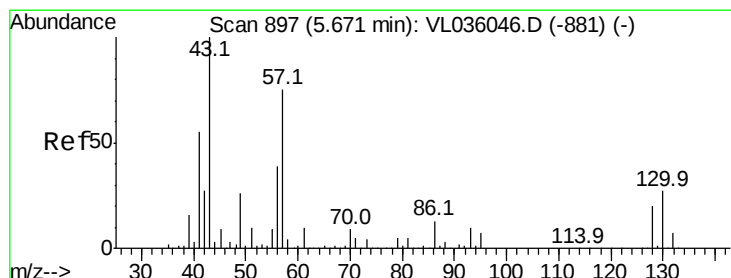
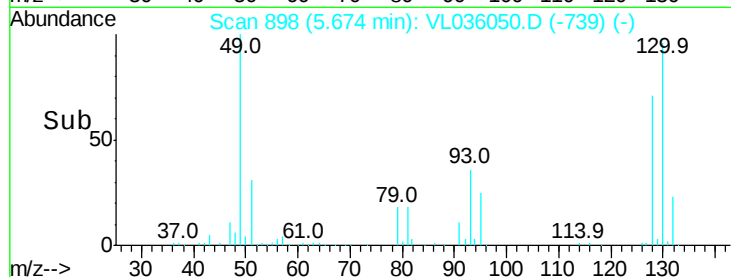
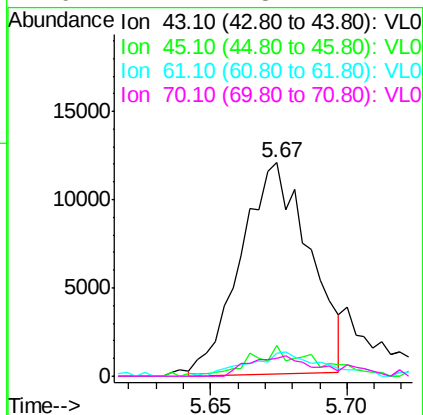
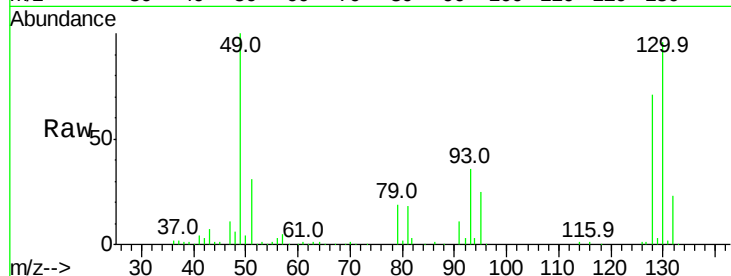




#25
Ethyl Acetate
Concen: 0.089 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL036050.D
Acq: 3 Dec 2020 12:19

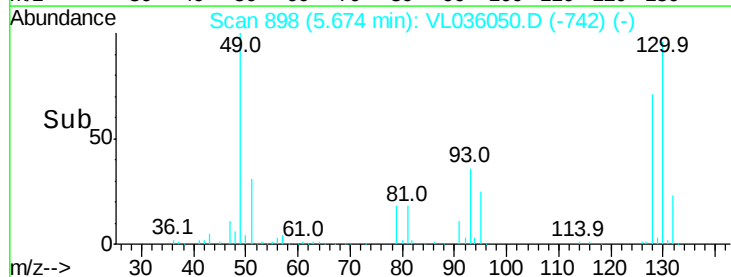
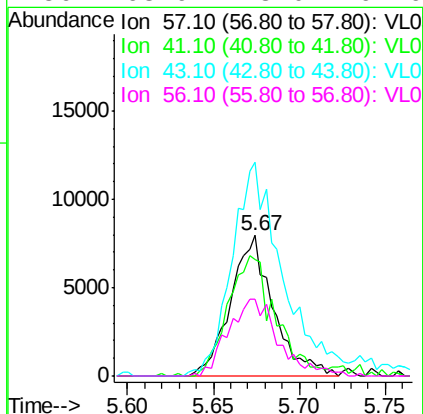
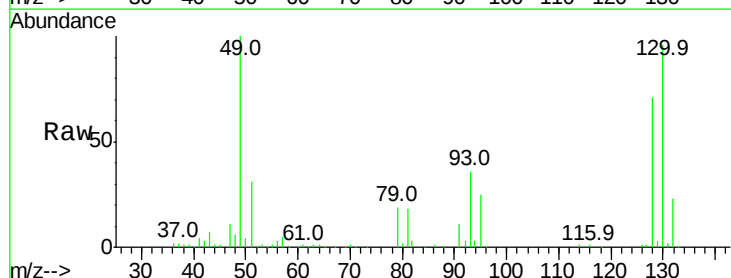
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

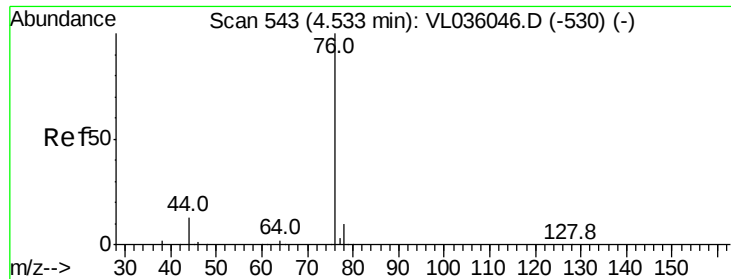
Tgt Ion: 43 Resp: 20889
Ion Ratio Lower Upper
43 100
45 14.9 8.6 13.0#
61 12.8 10.6 16.0
70 12.4 8.1 12.1#



#26
Hexane
Concen: 0.107 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL036050.D
Acq: 3 Dec 2020 12:19

Tgt Ion: 57 Resp: 13840
Ion Ratio Lower Upper
57 100
41 98.1 61.6 92.4#
43 194.4 152.9 229.3
56 63.9 43.0 64.6





#27

Carbon Disulfide

Concen: 0.075 ppbv

RT: 4.54 min Scan# 545

Delta R.T. 0.01 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

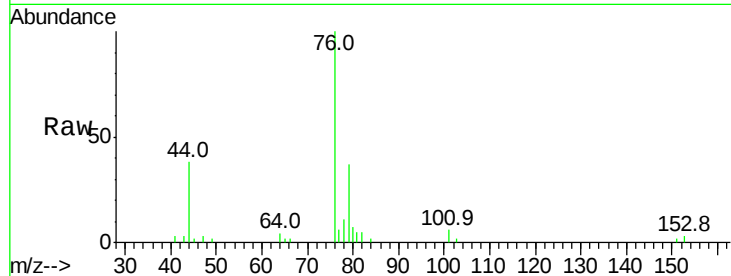
Tgt Ion: 76 Resp: 14462

Ion Ratio Lower Upper

76 100

44 37.9 9.6 14.4#

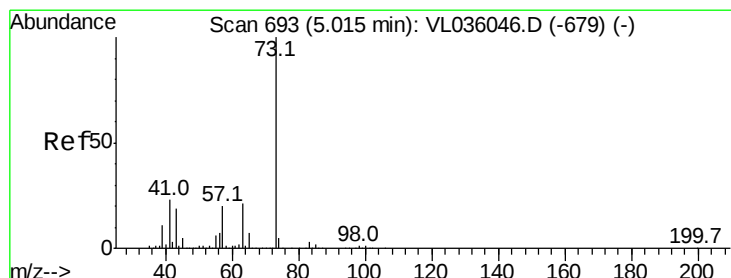
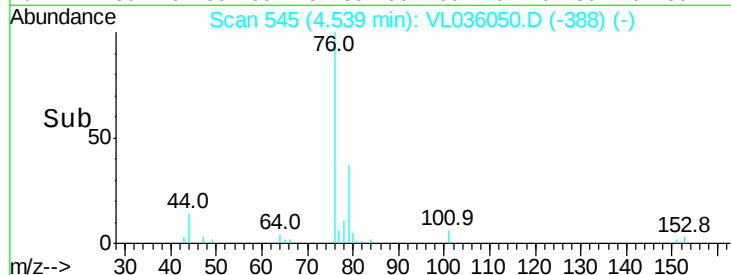
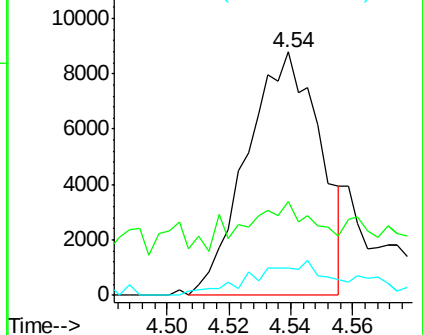
78 19.0 7.7 11.5#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.067 ppbv

RT: 5.04 min Scan# 700

Delta R.T. 0.02 min

Lab File: VL036050.D

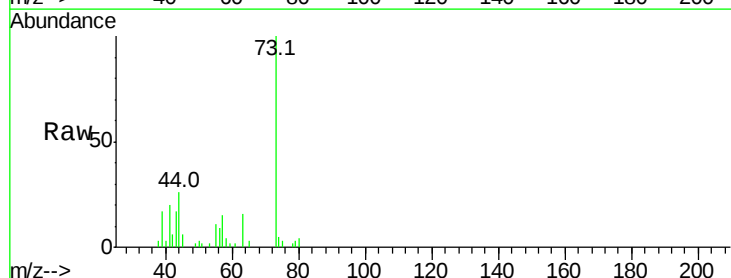
Acq: 3 Dec 2020 12:19

Tgt Ion: 73 Resp: 15558

Ion Ratio Lower Upper

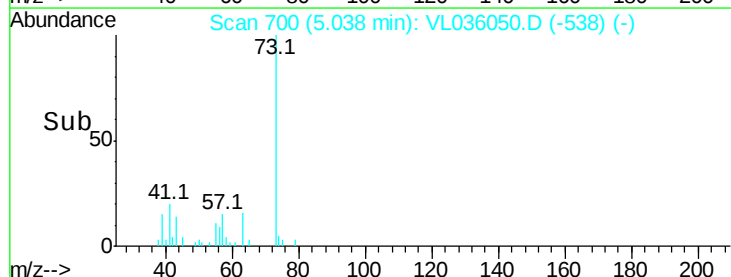
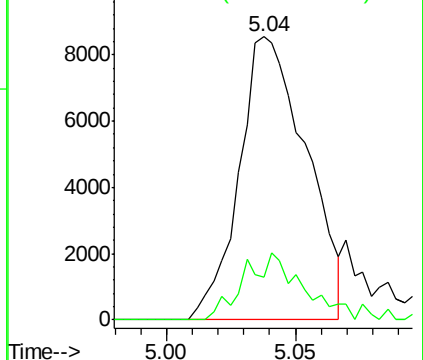
73 100

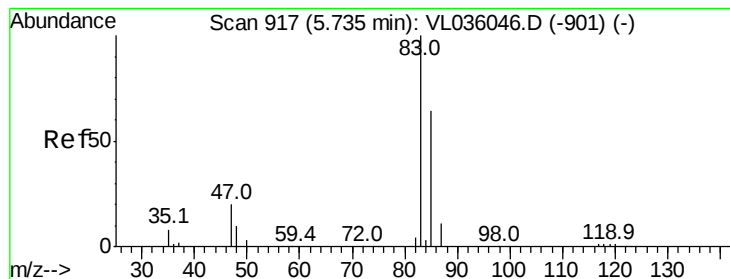
57 21.4 15.8 23.8



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.110 ppbv

RT: 5.74 min Scan# 917

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

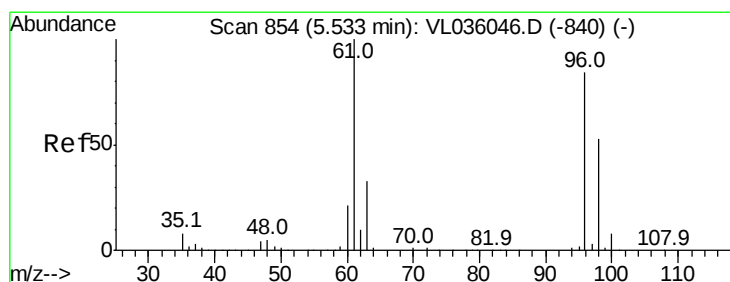
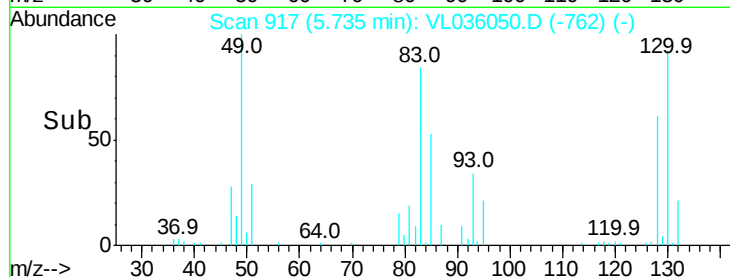
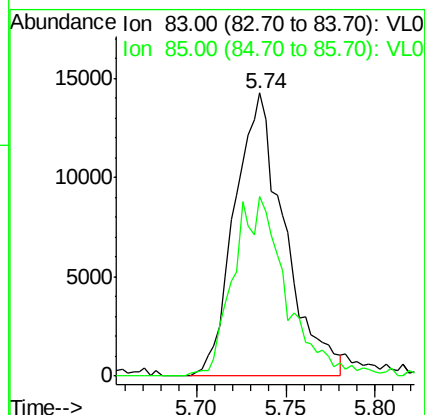
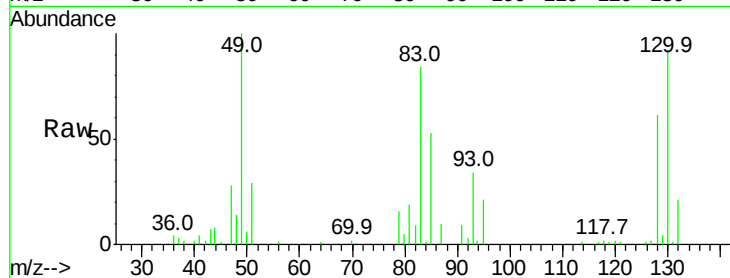
VSTDIC0.1

Tgt Ion: 83 Resp: 27927

Ion Ratio Lower Upper

83 100

85 62.1 51.6 77.4



#31

cis-1,2-Dichloroethene

Concen: 0.055 ppbv

RT: 5.53 min Scan# 854

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

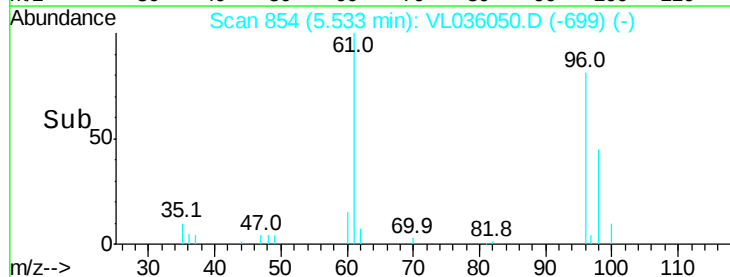
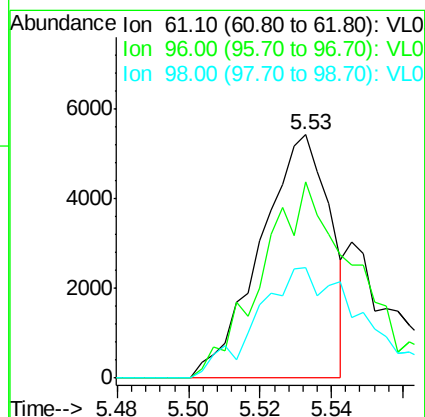
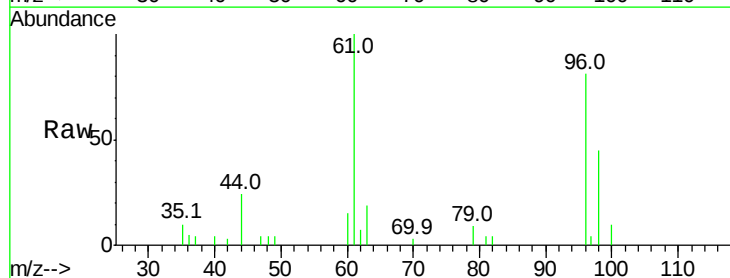
Tgt Ion: 61 Resp: 7332

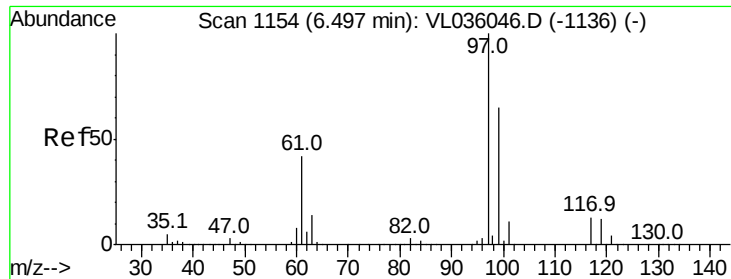
Ion Ratio Lower Upper

61 100

96 80.7 66.8 100.2

98 45.2 42.6 63.8

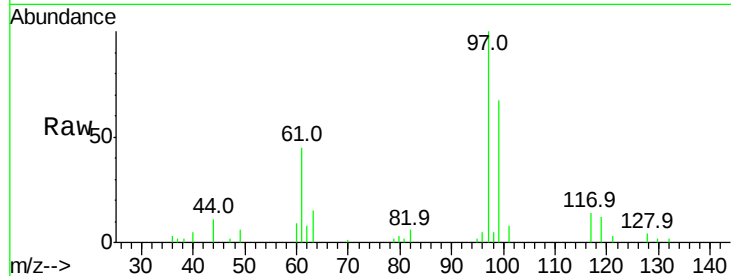




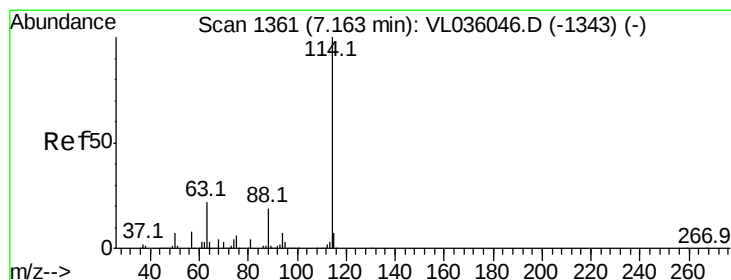
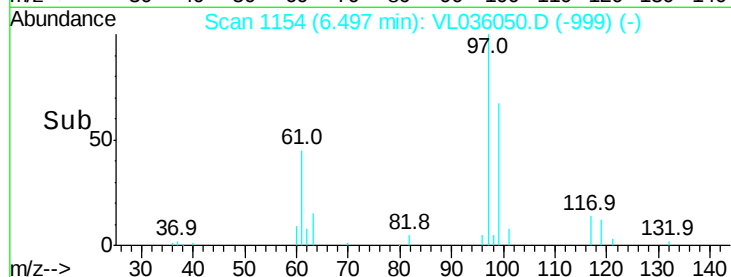
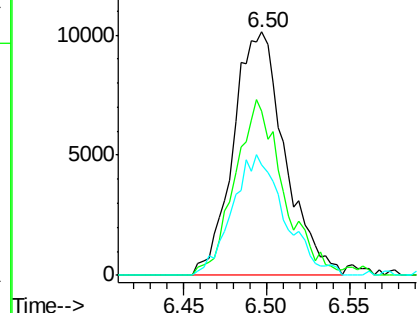
#32
 1,1,1-Trichloroethane
 Concen: 0.083 ppbv
 RT: 6.50 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VL036050.D
 Acq: 3 Dec 2020 12:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion: 97 Resp: 21938
 Ion Ratio Lower Upper
 97 100
 99 69.0 52.4 78.6
 61 50.1 34.7 52.1

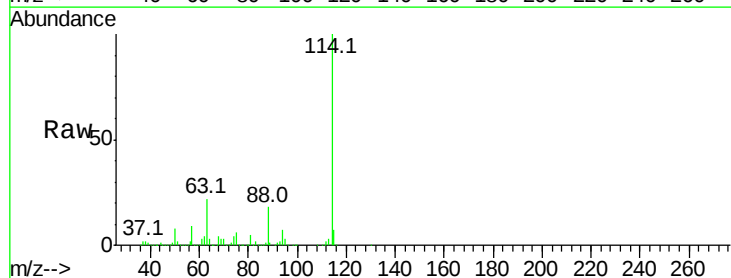


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0

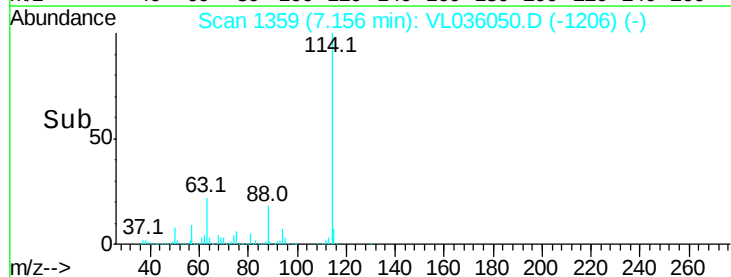
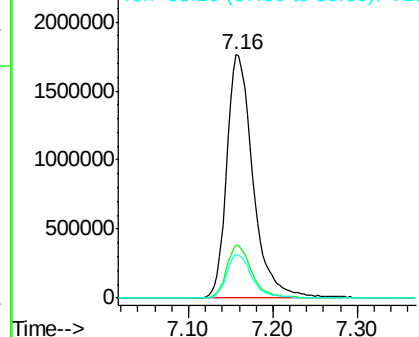


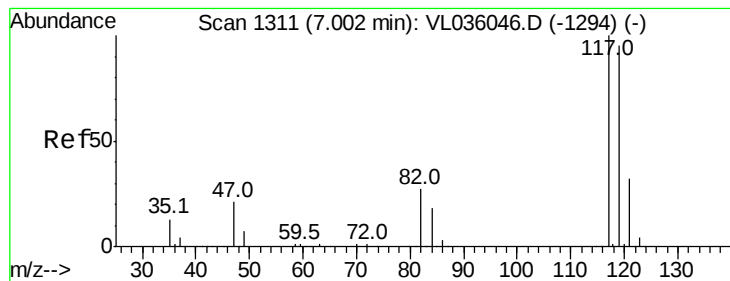
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.01 min
 Lab File: VL036050.D
 Acq: 3 Dec 2020 12:19

Tgt Ion: 114 Resp: 3826868
 Ion Ratio Lower Upper
 114 100
 63 21.2 17.2 25.8
 88 17.5 14.0 21.0



Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.101 ppbv

RT: 7.00 min Scan# 1310

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

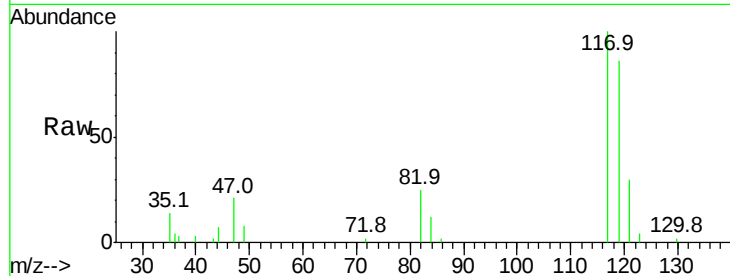
Tgt Ion:117 Resp: 20645

Ion Ratio Lower Upper

117 100

119 80.0 75.9 113.9

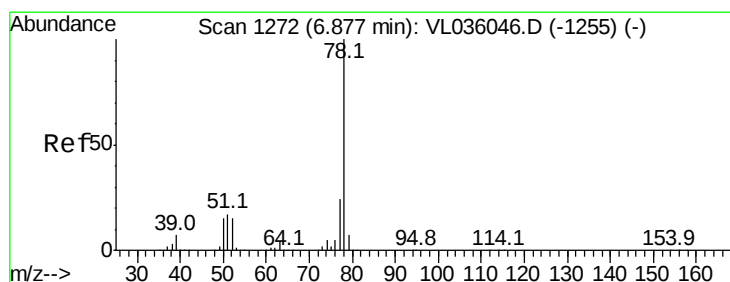
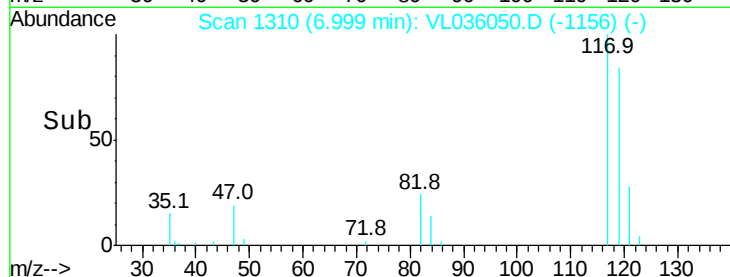
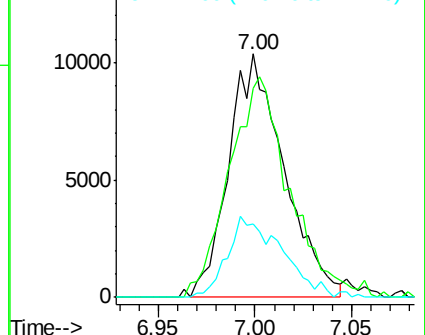
121 30.0 25.8 38.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.068 ppbv

RT: 6.87 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

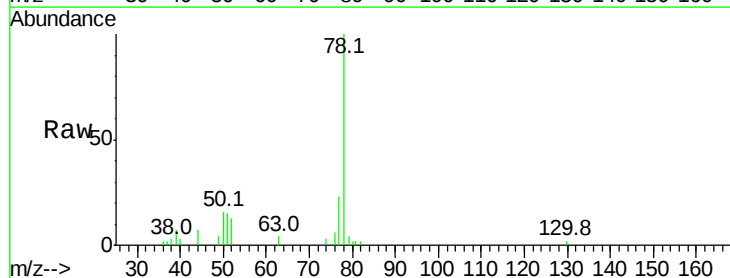
Tgt Ion: 78 Resp: 19282

Ion Ratio Lower Upper

78 100

77 22.7 19.1 28.7

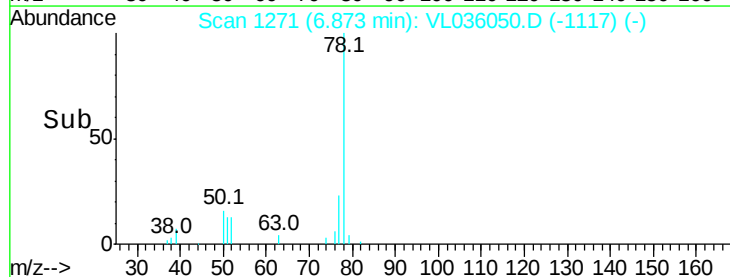
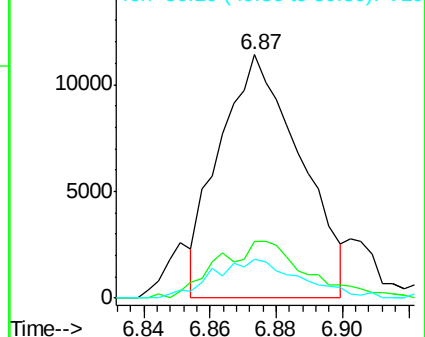
50 16.6 12.0 18.0

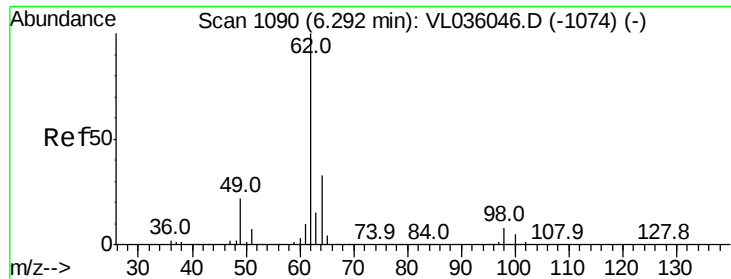


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

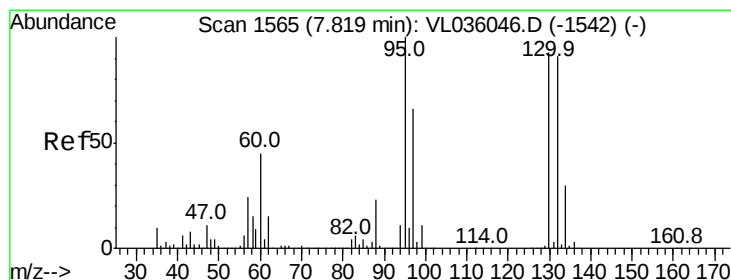
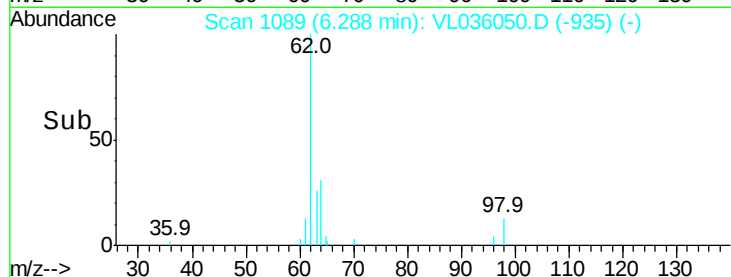
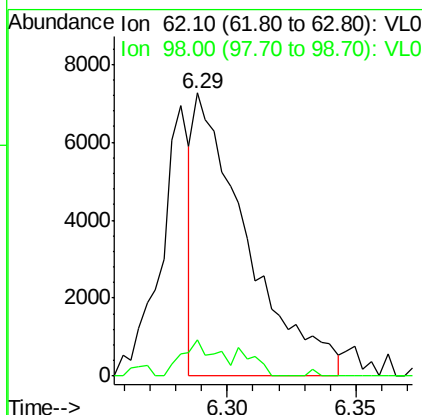
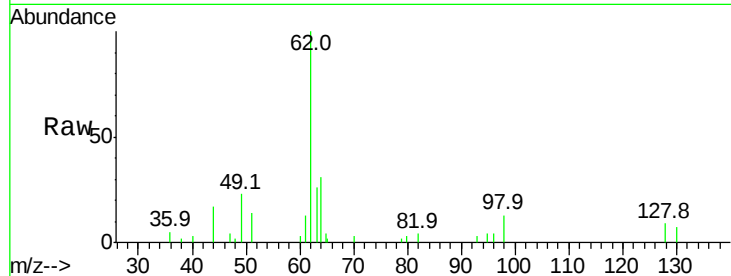




#37
 1,2-Dichloroethane
 Concen: 0.080 ppbv
 RT: 6.29 min Scan# 1089
 Delta R.T. -0.00 min
 Lab File: VL036050.D
 Acq: 3 Dec 2020 12:19

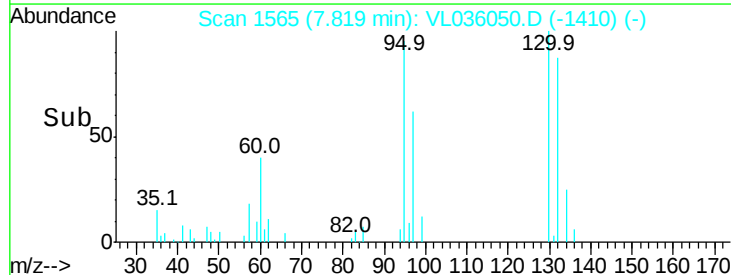
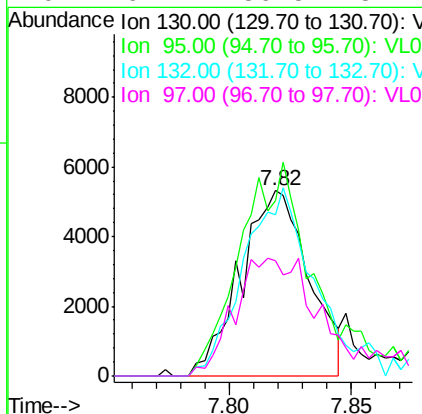
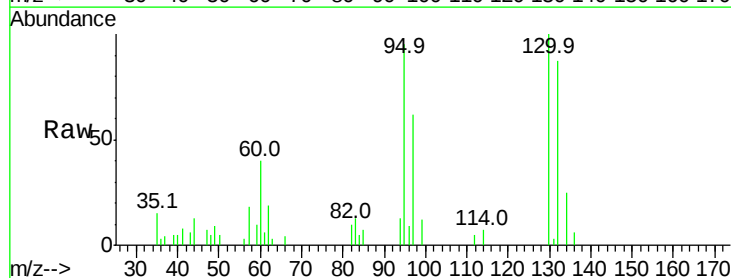
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

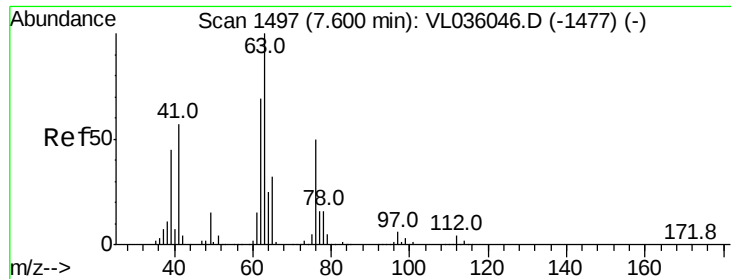
Tgt Ion: 62 Resp: 10283
 Ion Ratio Lower Upper
 62 100
 98 13.5 6.4 9.6#



#38
 Trichloroethene
 Concen: 0.074 ppbv
 RT: 7.82 min Scan# 1565
 Delta R.T. -0.00 min
 Lab File: VL036050.D
 Acq: 3 Dec 2020 12:19

Tgt Ion: 130 Resp: 10323
 Ion Ratio Lower Upper
 130 100
 95 94.5 86.1 129.1
 132 86.9 78.6 118.0
 97 62.2 56.5 84.7





#39

1,2-Dichloropropane

Concen: 8.364 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.44 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

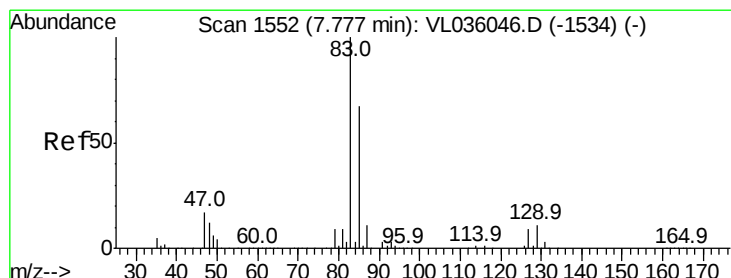
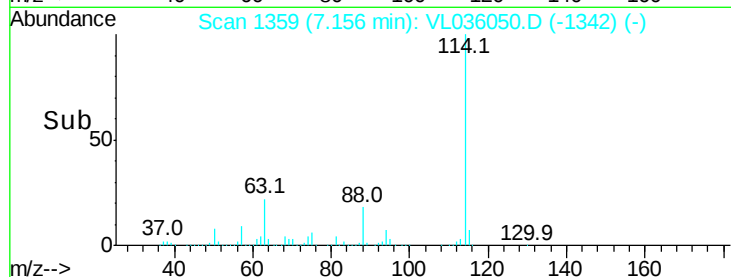
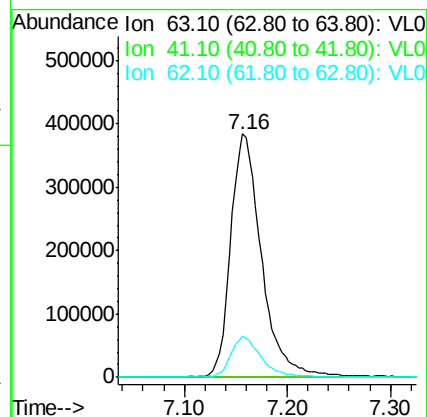
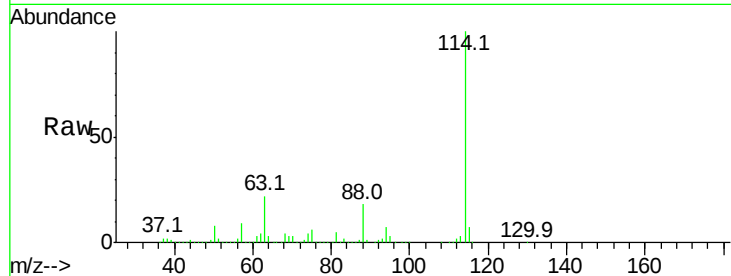
Tgt Ion: 63 Resp: 801159

Ion Ratio Lower Upper

63 100

41 0.2 45.4 68.0#

62 16.9 55.3 82.9#



#42

Bromodichloromethane

Concen: 0.046 ppbv

RT: 7.77 min Scan# 1550

Delta R.T. -0.01 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

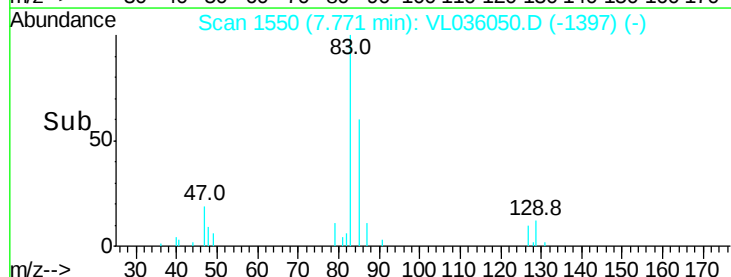
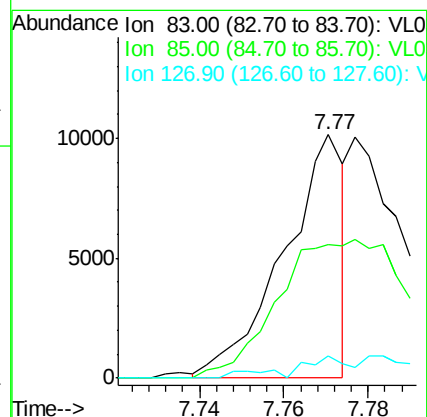
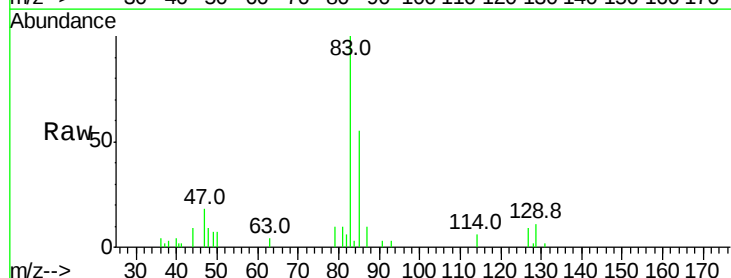
Tgt Ion: 83 Resp: 10090

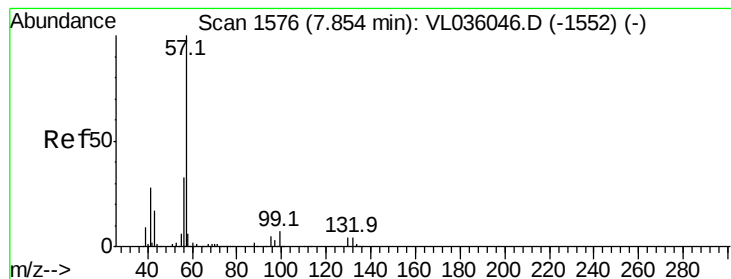
Ion Ratio Lower Upper

83 100

85 55.9 53.7 80.5

127 9.0 7.0 10.6





#44

2,2,4-Trimethylpentane

Concen: 0.070 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

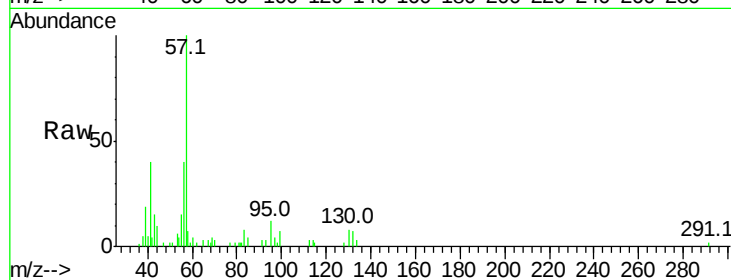
Tgt Ion: 57 Resp: 26458

Ion Ratio Lower Upper

57 100

41 42.4 21.9 32.9#

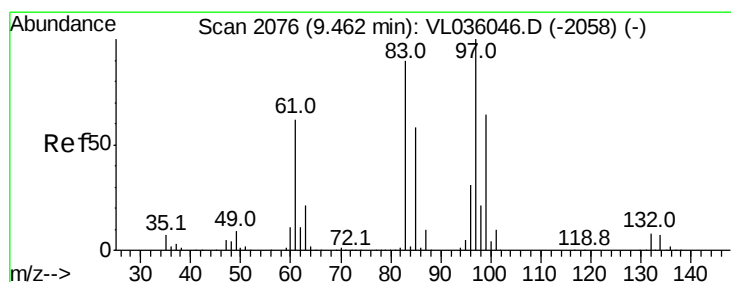
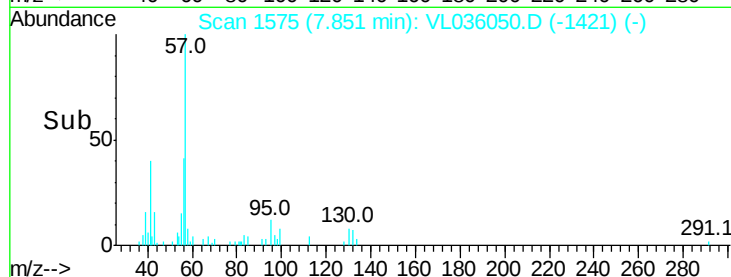
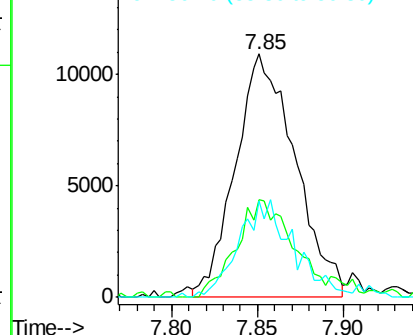
56 36.8 25.8 38.6



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#47

1,1,2-Trichloroethane

Concen: 0.099 ppbv

RT: 9.46 min Scan# 2074

Delta R.T. -0.01 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Tgt Ion: 97 Resp: 12923

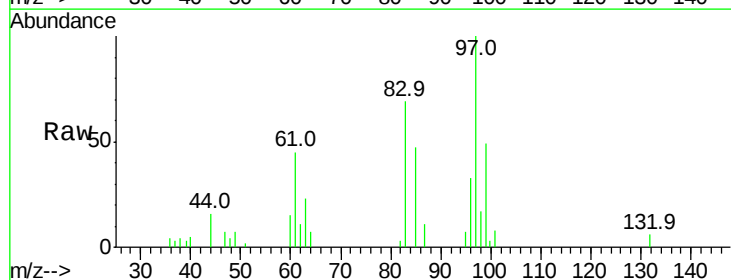
Ion Ratio Lower Upper

97 100

83 66.3 72.1 108.1#

85 47.2 46.6 69.8

99 48.6 51.0 76.4#

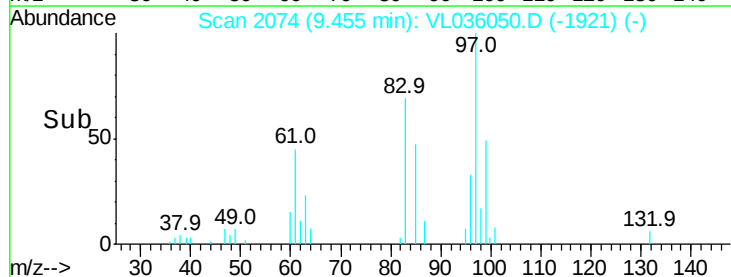
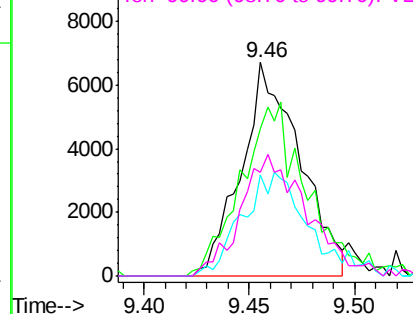


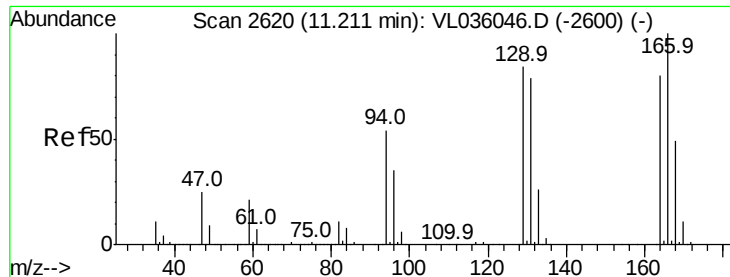
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0





#52

Tetrachloroethene

Concen: 0.073 ppbv

RT: 11.21 min Scan# 2620

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:164 Resp: 9897

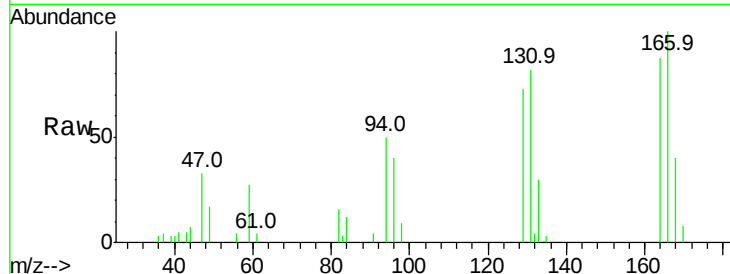
Ion Ratio Lower Upper

164 100

166 106.6 100.2 150.2

129 80.6 83.7 125.5#

131 94.0 78.7 118.1

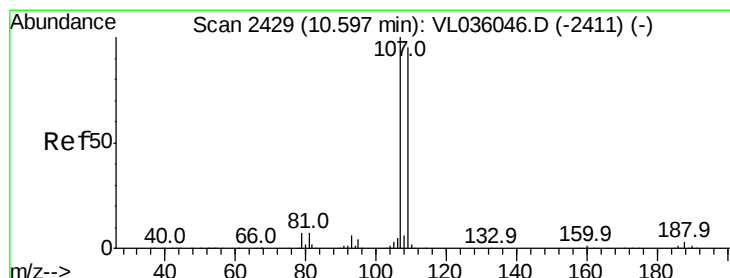
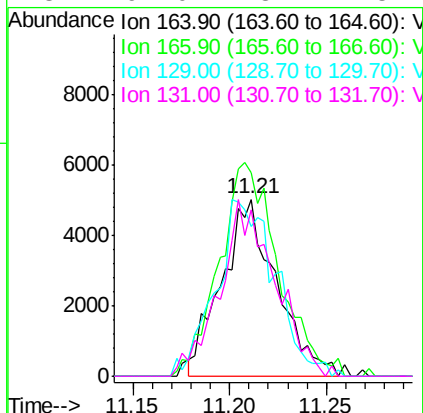
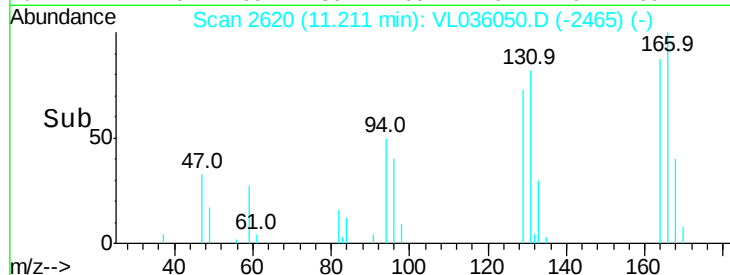


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#54

1,2-Dibromoethane

Concen: 0.056 ppbv

RT: 10.60 min Scan# 2429

Delta R.T. -0.00 min

Lab File: VL036050.D

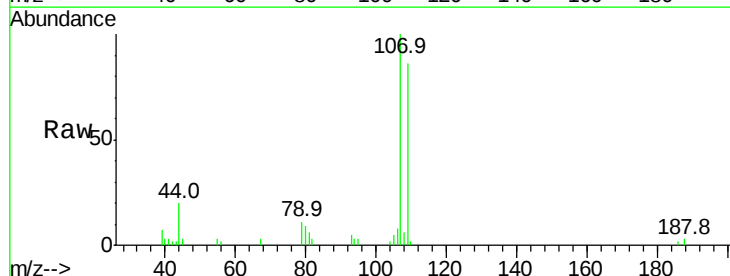
Acq: 3 Dec 2020 12:19

Tgt Ion:107 Resp: 11111

Ion Ratio Lower Upper

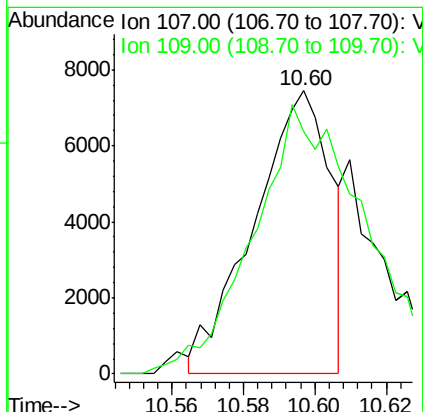
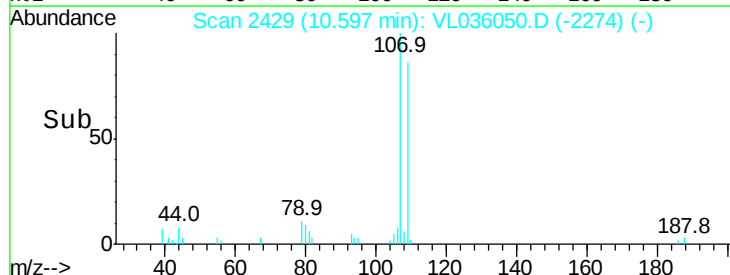
107 100

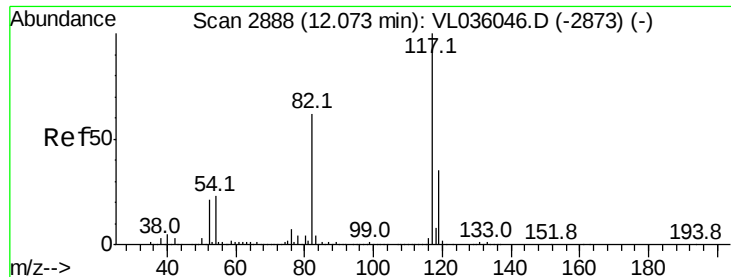
109 78.3 75.7 113.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

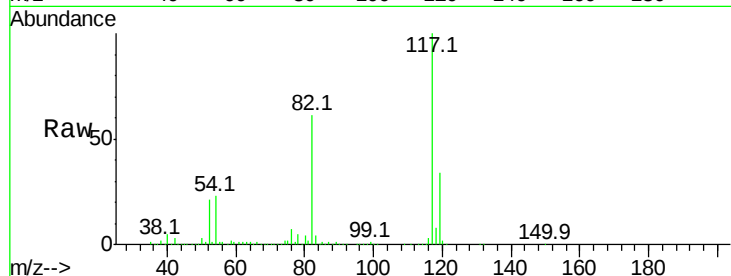
Tgt Ion:117 Resp: 3491876

Ion Ratio Lower Upper

117 100

82 62.3 49.9 74.9

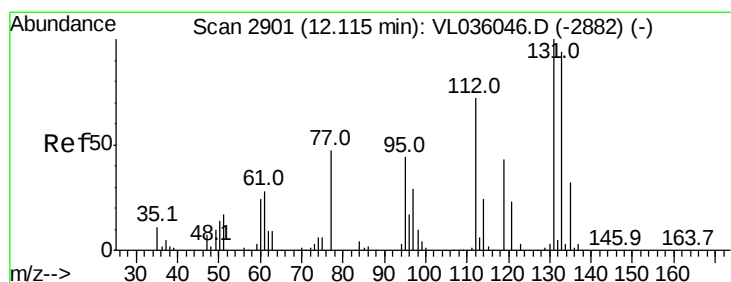
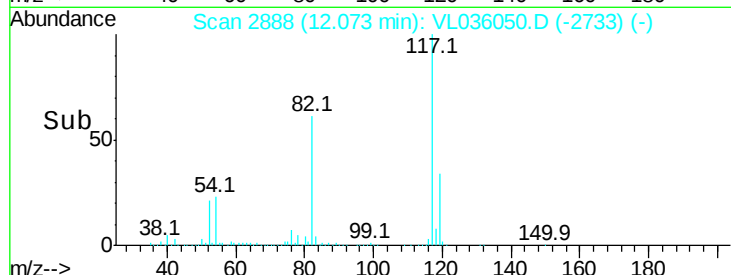
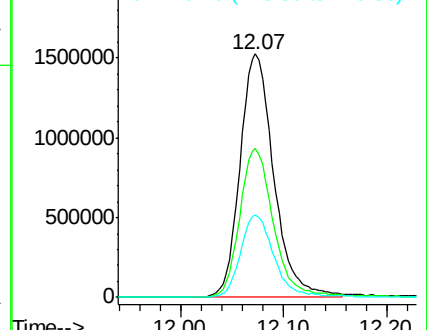
119 34.1 28.7 43.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.056 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

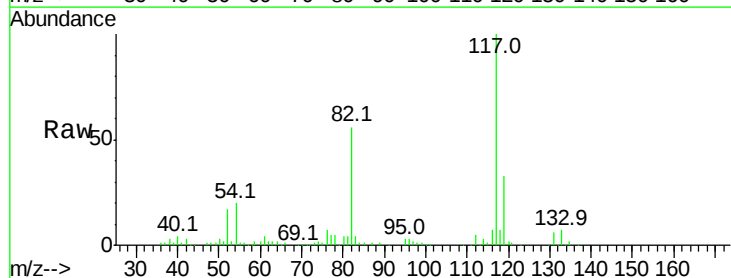
Tgt Ion:131 Resp: 8794

Ion Ratio Lower Upper

131 100

133 173.0 76.1 114.1#

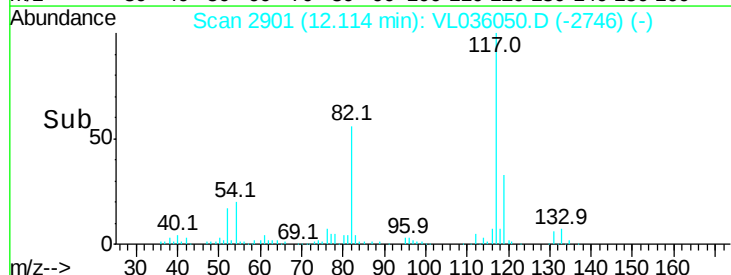
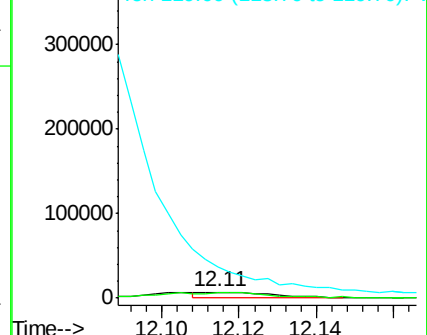
119 0.0 49.5 74.3#

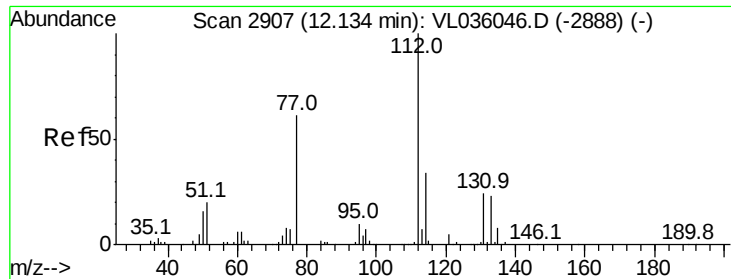


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 0.072 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

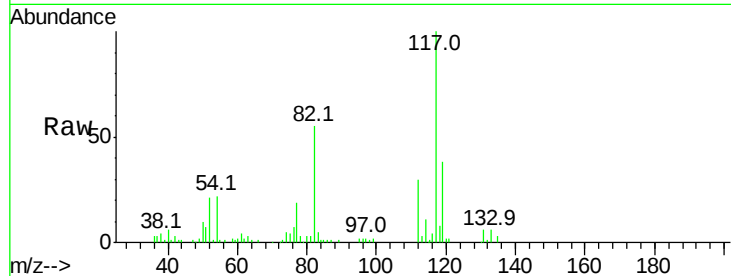
Tgt Ion: 112 Resp: 19886

Ion Ratio Lower Upper

112 100

77 32.3 49.3 73.9#

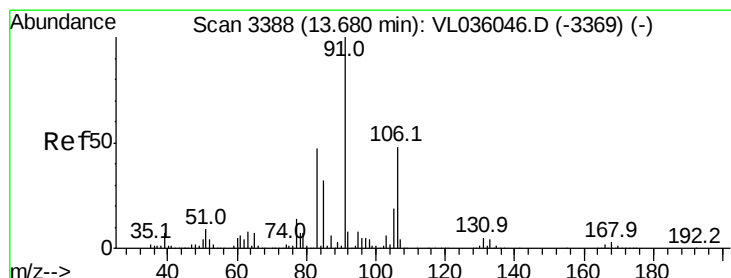
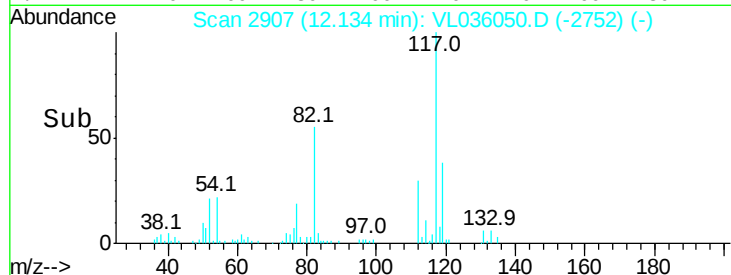
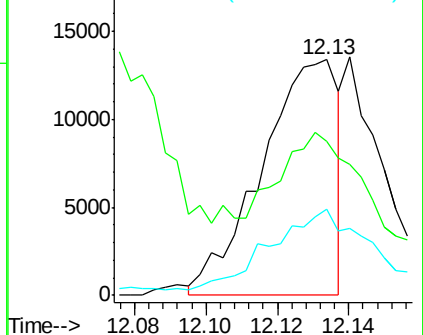
114 37.1 30.2 36.9#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#60

o-Xylene

Concen: 0.033 ppbv

RT: 13.68 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VL036050.D

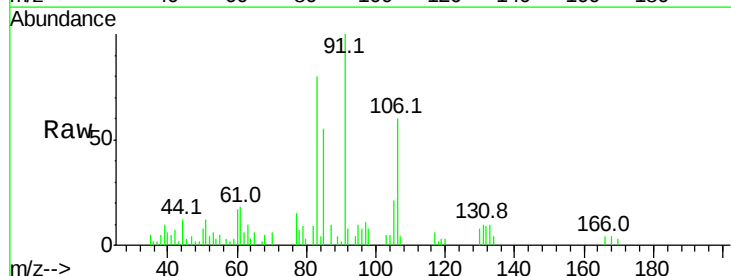
Acq: 3 Dec 2020 12:19

Tgt Ion: 91 Resp: 11453

Ion Ratio Lower Upper

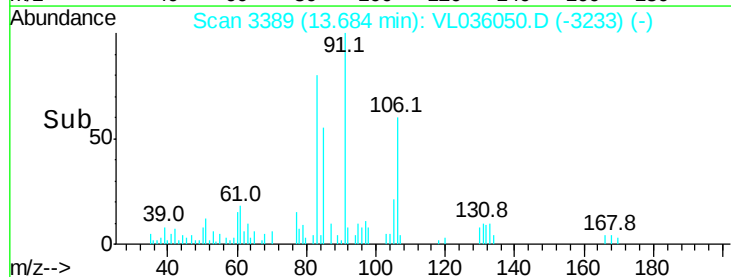
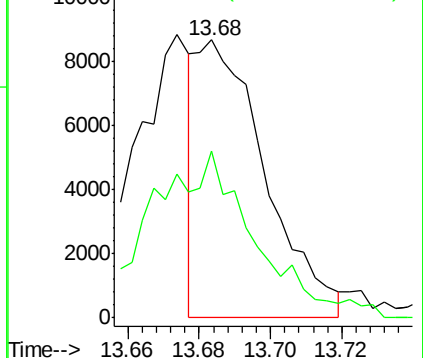
91 100

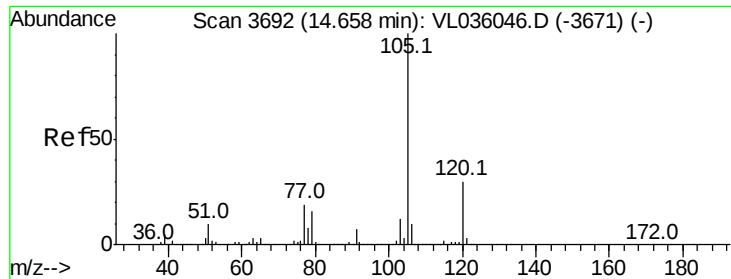
106 93.6 24.1 72.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#62

Isopropylbenzene

Concen: 0.066 ppbv

RT: 14.66 min Scan# 3692

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

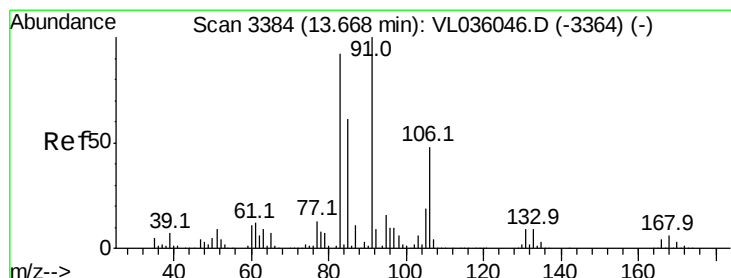
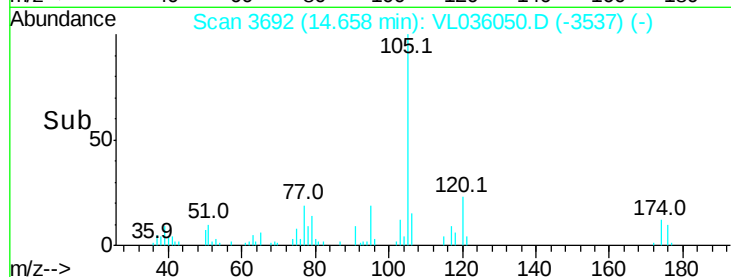
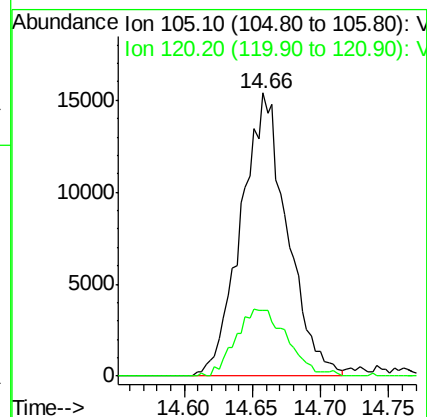
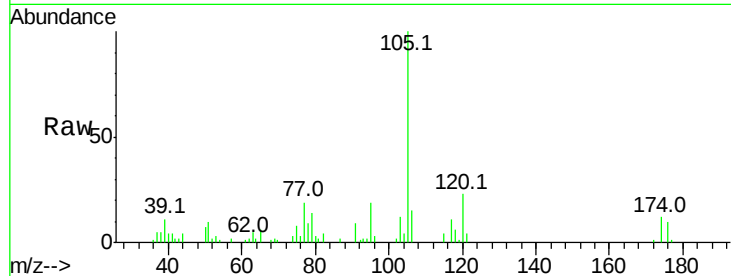
VSTDIC0.1

Tgt Ion: 105 Resp: 36262

Ion Ratio Lower Upper

105 100

120 26.3 22.6 34.0



#63

1,1,2,2-Tetrachloroethane

Concen: 0.087 ppbv

RT: 13.67 min Scan# 3386

Delta R.T. 0.01 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

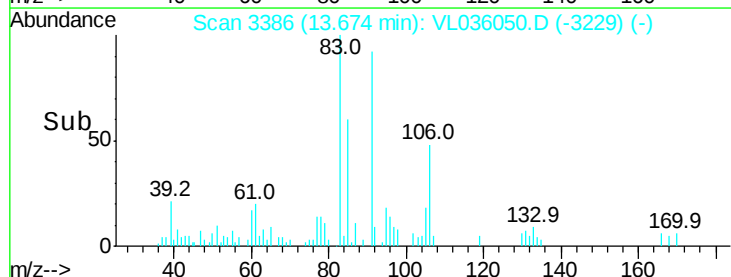
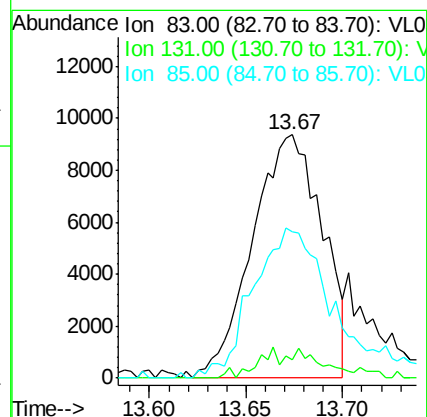
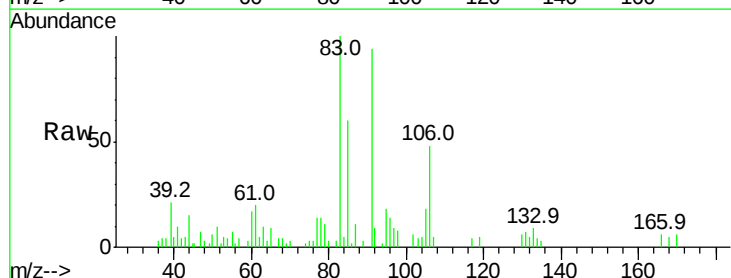
Tgt Ion: 83 Resp: 23542

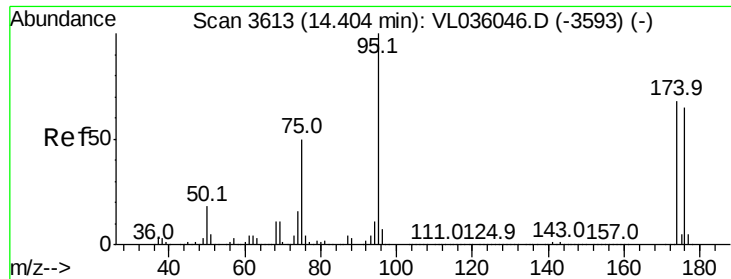
Ion Ratio Lower Upper

83 100

131 11.1 4.8 14.4

85 79.3 33.3 99.9

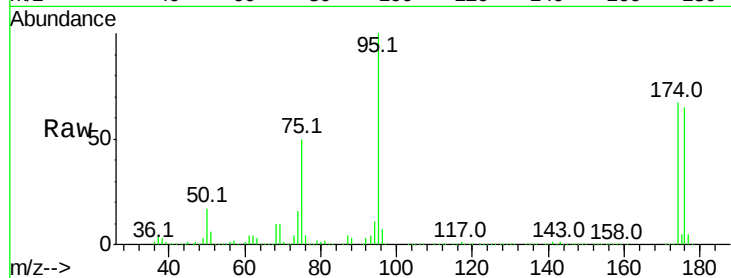




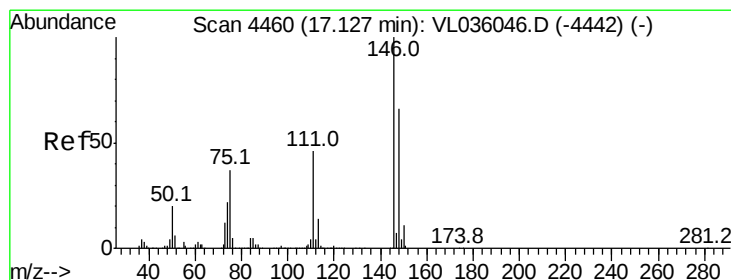
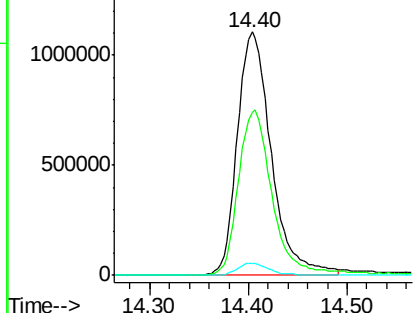
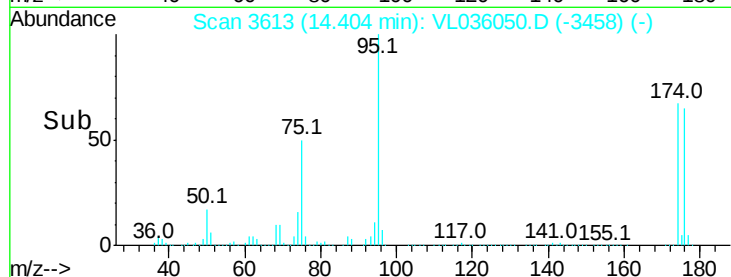
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.650 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T. -0.00 min
 Lab File: VL036050.D
 Acq: 3 Dec 2020 12:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion: 95 Resp: 2642257
 Ion Ratio Lower Upper
 95 100
 174 69.5 54.2 81.2
 175 4.8 3.8 5.8

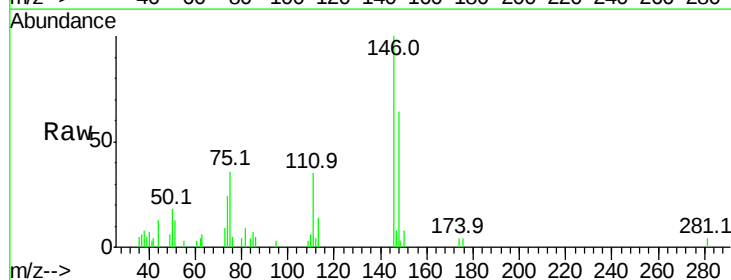


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

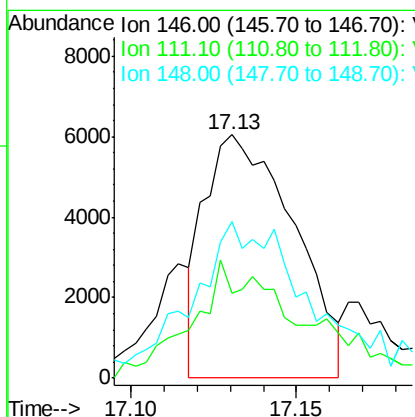
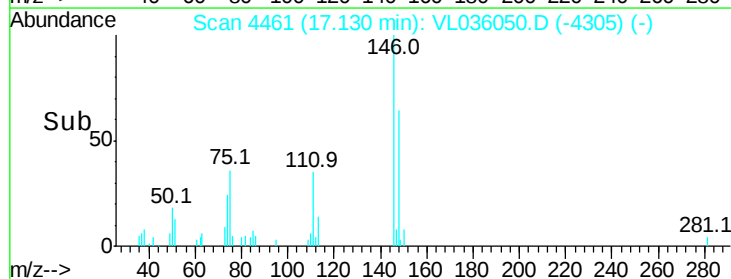


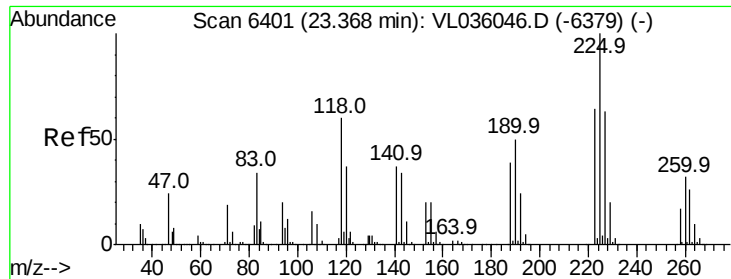
#76
 1,4-Dichlorobenzene
 Concen: 0.044 ppbv
 RT: 17.13 min Scan# 4461
 Delta R.T. 0.00 min
 Lab File: VL036050.D
 Acq: 3 Dec 2020 12:19

Tgt Ion: 146 Resp: 11358
 Ion Ratio Lower Upper
 146 100
 111 65.9 22.4 67.2
 148 92.1 33.0 98.9



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.053 ppbv

RT: 23.37 min Scan# 6401

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

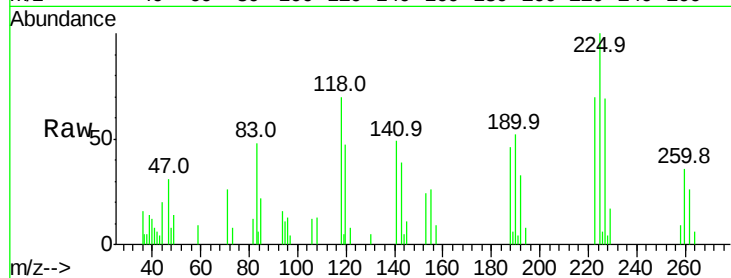
Tgt Ion:225 Resp: 6375

Ion Ratio Lower Upper

225 100

223 0.0 51.0 76.4#

227 0.0 51.2 76.8#



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

