

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035237.D
 Acq On : 29 Jul 2020 5:16
 Operator : SY/AP
 Sample : VSTDICCC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 29 06:02:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 29 03:31:38 2020
 QLast Update : Wed Jul 29 03:31:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1352512	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3295358	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	3039276	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2489001	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	30455	0.164	ppbv 95
3) Chlorodifluoromethane	2.94	51	20737	0.138	ppbv 94
4) Chloromethane	3.10	50	4567	0.054	ppbv # 58
5) Vinyl Chloride	3.22	62	7821	0.086	ppbv 90
6) Bromomethane	3.44	94	1930	0.038	ppbv # 54
7) Chloroethane	3.52	64	3095	0.097	ppbv 97
8) Dichlorotetrafluoroethane	3.14	85	27213	0.130	ppbv 90
9) Propene	2.97	41	7002	0.125	ppbv # 76
11) Trichlorofluoromethane	3.92	101	28814	0.134	ppbv 91
12) 1,1,2-Trichlorotrifluoroet	4.46	101	7887	0.052	ppbv # 14
14) Bromoethene	3.70	108	7706	0.124	ppbv 99
15) Acetone	3.84	43	38574	0.210	ppbv # 60
16) 1,3-Butadiene	3.29	39	7284	0.103	ppbv 94
18) 1,1-Dichloroethene	4.27	96	5303	0.079	ppbv # 23
20) Methylene Chloride	4.32	84	11204	0.139	ppbv # 76
21) Allyl Chloride	4.38	41	5808	0.054	ppbv # 19
22) trans-1,2-Dichloroethene	4.87	96	6345	0.095	ppbv # 73
23) Vinyl Acetate	5.06	43	13079	0.067	ppbv # 83
24) 1,1-Dichloroethane	4.99	63	21238	0.124	ppbv # 93
25) Ethyl Acetate	5.68	43	27109	0.095	ppbv # 92
26) Hexane	5.67	57	5016	0.040	ppbv # 1
27) Carbon Disulfide	4.53	76	5692	0.033	ppbv # 64
31) cis-1,2-Dichloroethene	5.54	61	5744	0.049	ppbv 94
32) 1,1,1-Trichloroethane	6.52	97	6456	0.031	ppbv # 1
34) 2-Butanone	5.25	43	8188	0.047	ppbv # 34
35) Carbon Tetrachloride	7.02	117	12049	0.056	ppbv 83
37) 1,2-Dichloroethane	6.31	62	17839	0.111	ppbv # 95
38) Trichloroethene	7.84	130	3414	0.035	ppbv # 28
39) 1,2-Dichloropropane	7.18	63	902979	9.454	ppbv # 22
47) 1,1,2-Trichloroethane	9.50	97	8143	0.078	ppbv # 64
52) Tetrachloroethene	11.25	164	6264	0.070	ppbv # 55
54) 1,2-Dibromoethane	10.64	107	12266	0.079	ppbv 97
56) 1,1,1,2-Tetrachloroethane	12.16	131	6735	0.049	ppbv # 10
57) Chlorobenzene	12.18	112	15740	0.069	ppbv # 80
62) Isopropylbenzene	14.70	105	16731	0.037	ppbv # 49
66) Benzyl Chloride	17.03	91	5264	0.036	ppbv # 66
71) 2-Chlorotoluene	15.49	91	11009	0.032	ppbv 68
75) 1,3-Dichlorobenzene	17.04	146	22266	0.096	ppbv # 36
76) 1,4-Dichlorobenzene	17.18	146	14360	0.066	ppbv # 64
77) 1,2-Dichlorobenzene	17.86	146	9803	0.047	ppbv # 21
78) Hexachloro-1,3-Butadiene	23.43	225	7344	0.045	ppbv # 1

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QLast Update : Wed Jul 29 03:31:38 2020
Response via : Initial Calibration

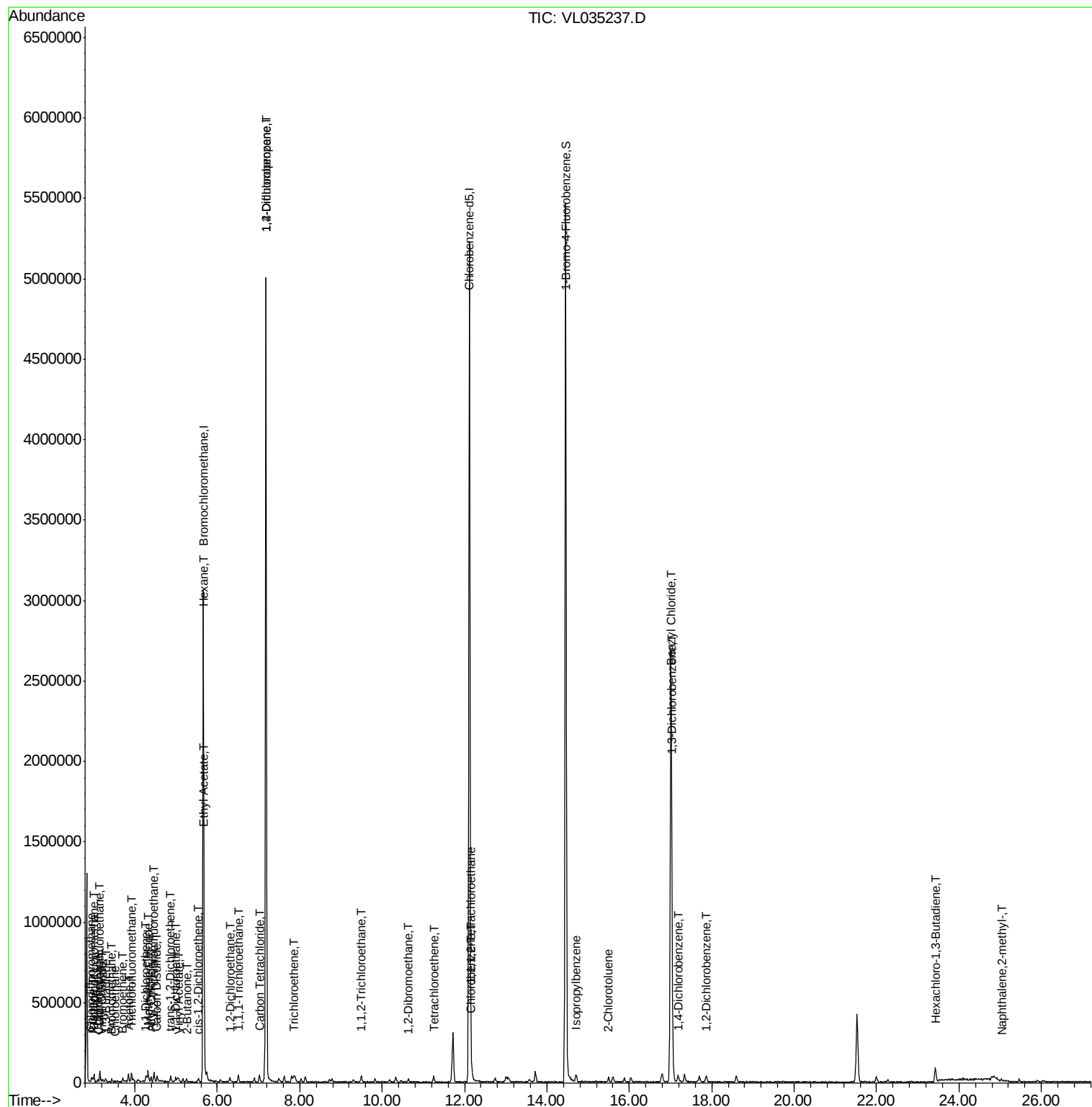
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Naphthalene,2-methyl-	25.04	142	6832	0.118	ppbv	# 85

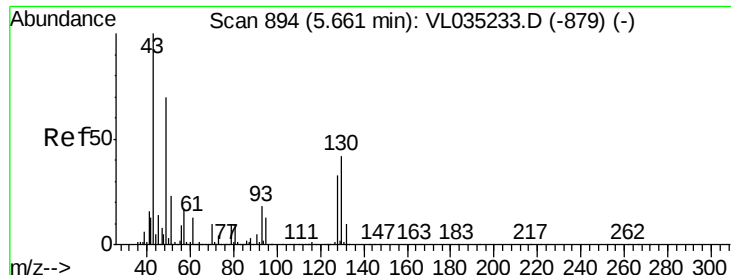
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :

MSVOA_L

ClientSampled :

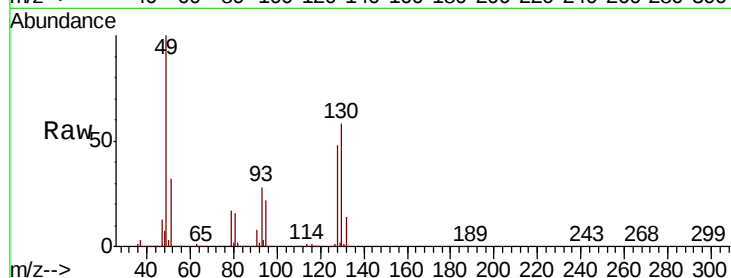
Tot Ion: 49 Resp: 1352512

Ion Ratio Lower Upper

49 100

128 49.8 24.0 72.0

130 63.0 30.7 92.1



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

5.66

800000

600000

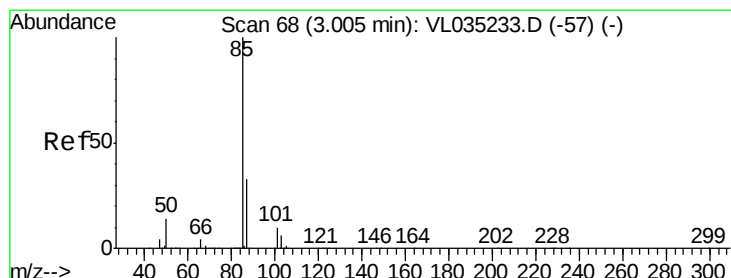
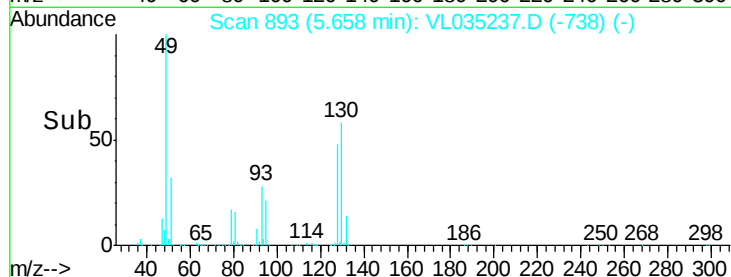
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.164 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035237.D

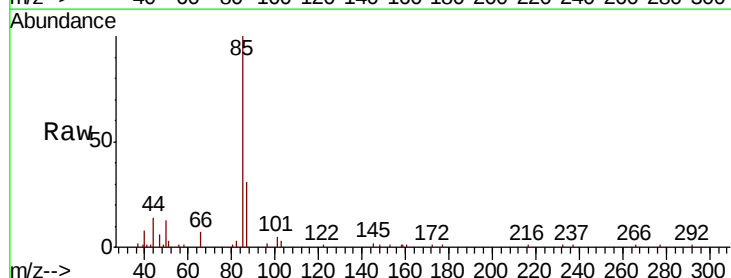
Acq: 29 Jul 2020 5:16

Tgt Ion: 85 Resp: 30455

Ion Ratio Lower Upper

85 100

87 30.6 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.01

30000

25000

20000

15000

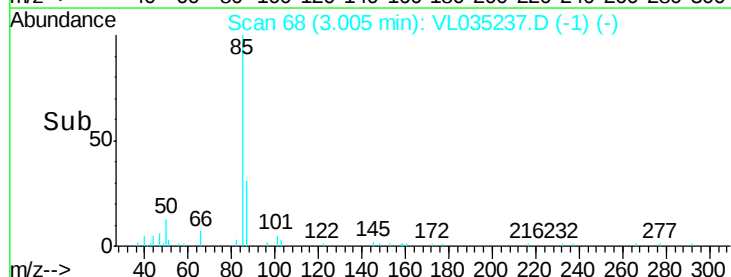
10000

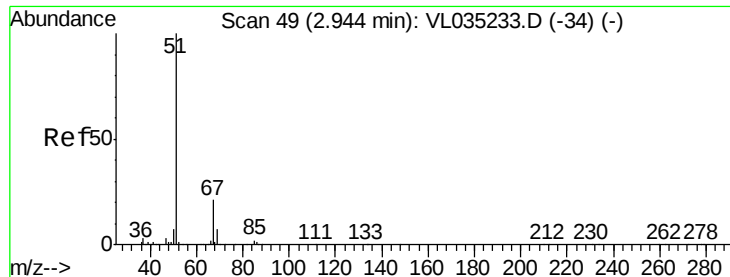
5000

0

2.96 2.98 3.00 3.02 3.04

Time-->





#3

Chlorodifluoromethane

Concen: 0.138 ppbv

RT: 2.94 min Scan# 49

Delta R.T. 0.00 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :

MSVOA_L

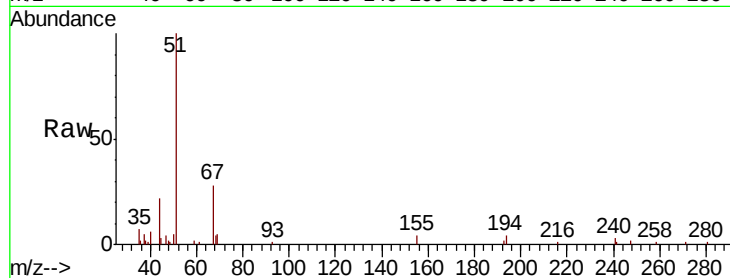
ClientSampleId :

Tot Ion: 51 Resp: 20737

Ion Ratio Lower Upper

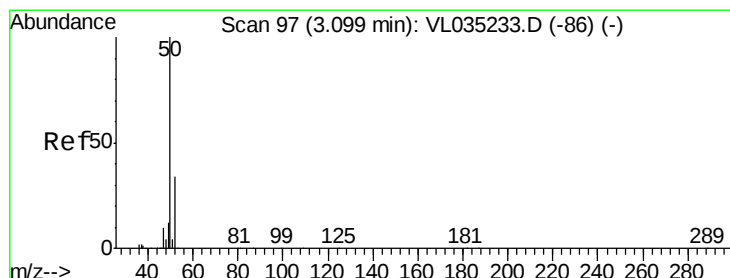
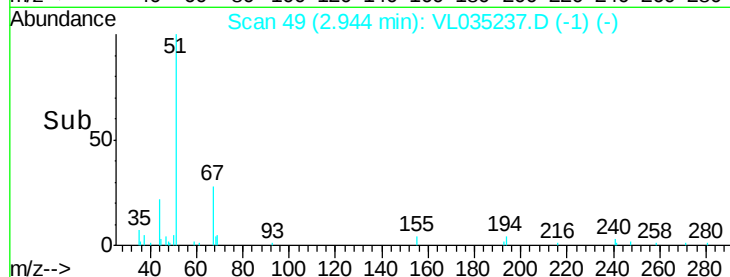
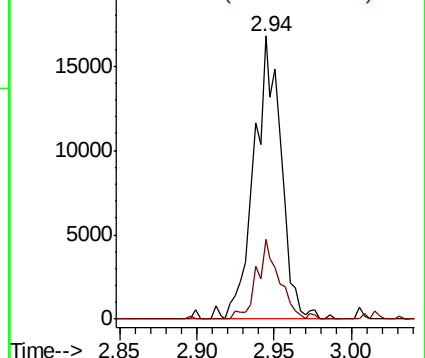
51 100

67 23.8 16.6 25.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.054 ppbv

RT: 3.10 min Scan# 96

Delta R.T. -0.00 min

Lab File: VL035237.D

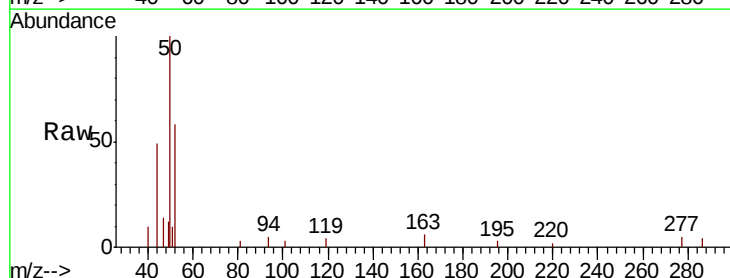
Acq: 29 Jul 2020 5:16

Tgt Ion: 50 Resp: 4567

Ion Ratio Lower Upper

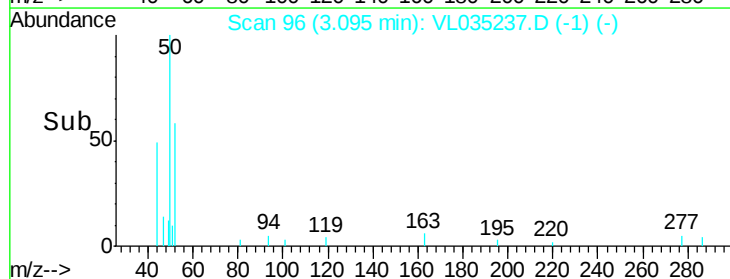
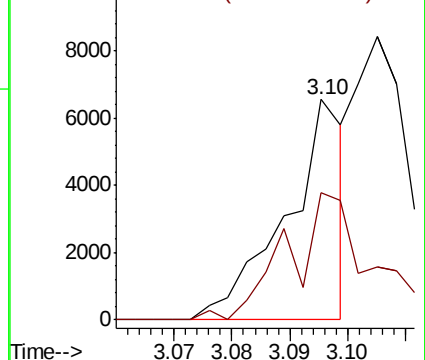
50 100

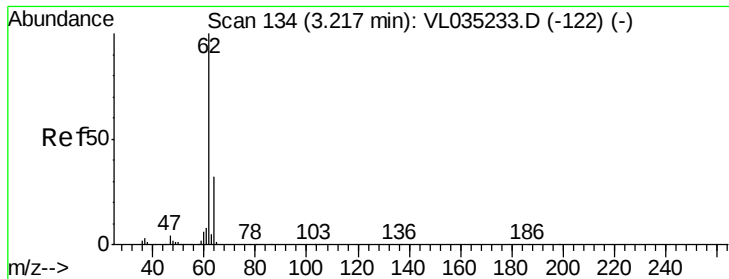
52 58.0 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.086 ppbv

RT: 3.22 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :

MSVOA_L

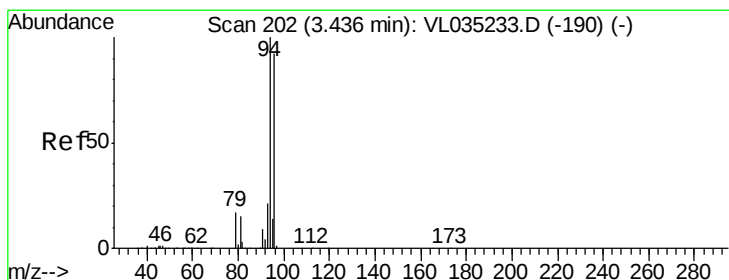
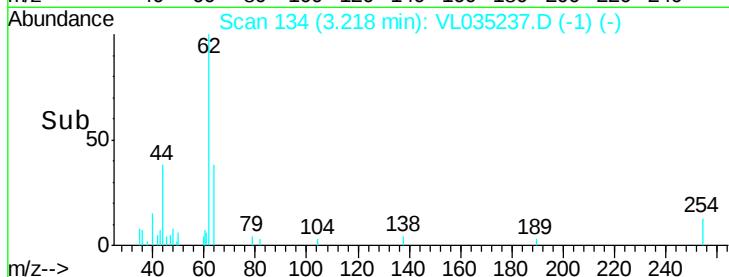
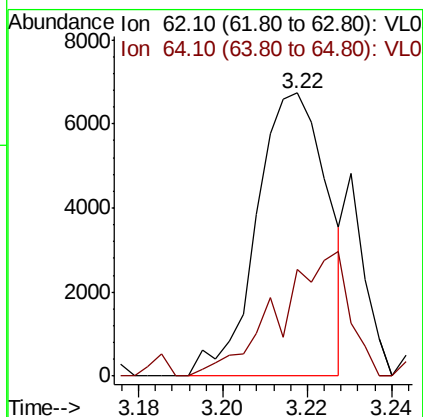
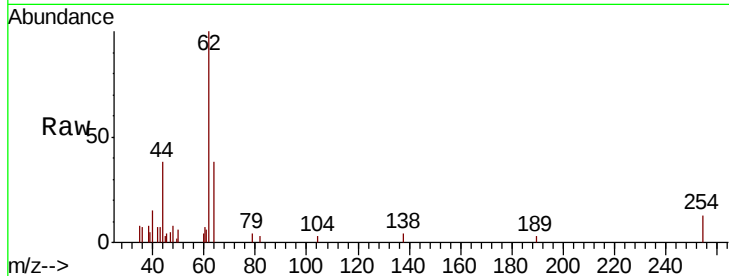
ClientSampleId :

Tot Ion: 62 Resp: 7821

Ion Ratio Lower Upper

62 100

64 37.6 25.8 38.6



#6

Bromomethane

Concen: 0.038 ppbv

RT: 3.44 min Scan# 202

Delta R.T. 0.00 min

Lab File: VL035237.D

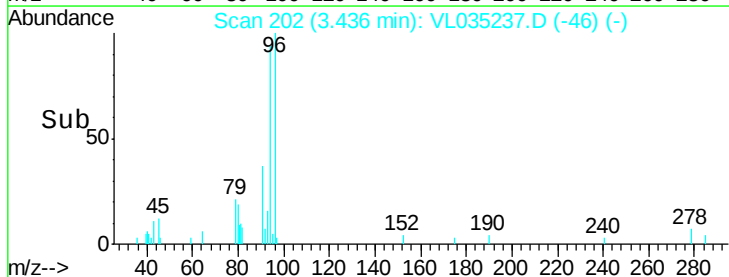
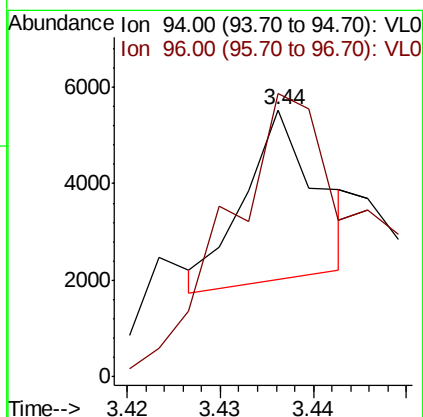
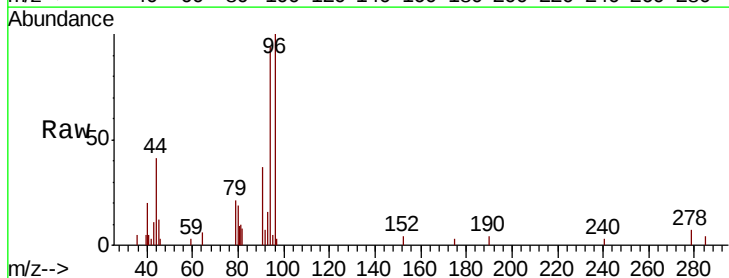
Acq: 29 Jul 2020 5:16

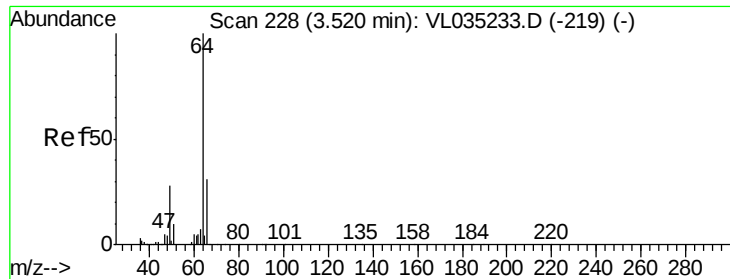
Tgt Ion: 94 Resp: 1930

Ion Ratio Lower Upper

94 100

96 135.4 73.2 109.8#





#7

Chloroethane

Concen: 0.097 ppbv

RT: 3.52 min Scan# 228

Delta R.T. 0.00 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :

MSVOA_L

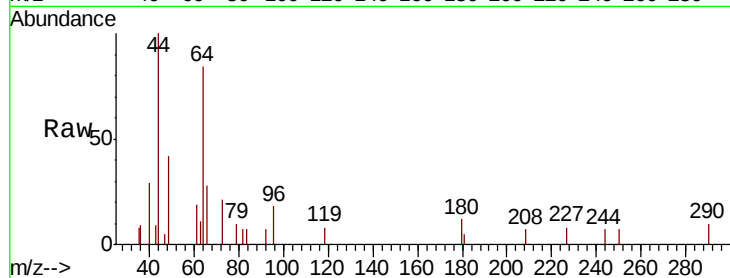
ClientSampleId :

Tot Ion: 64 Resp: 3095

Ion Ratio Lower Upper

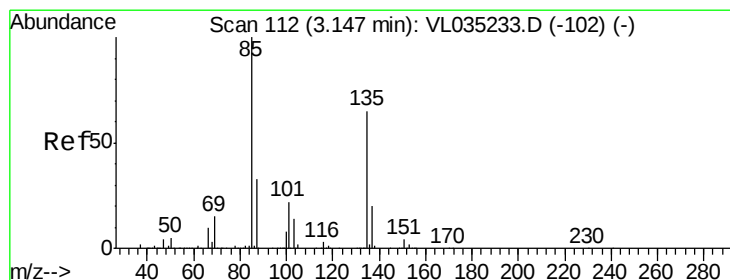
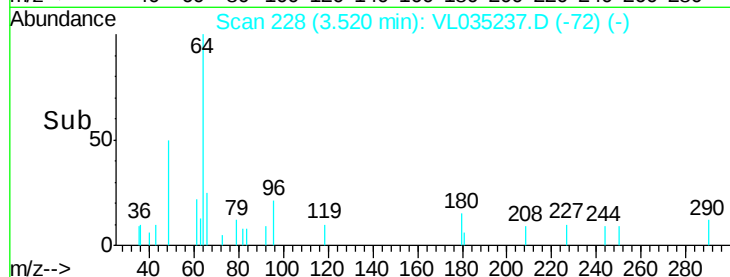
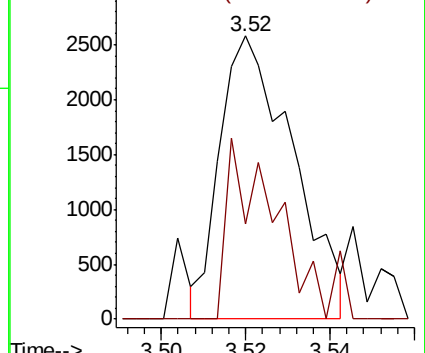
64 100

66 33.9 25.6 38.4



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.130 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL035237.D

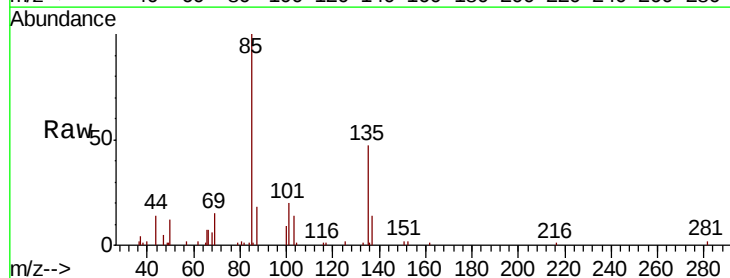
Acq: 29 Jul 2020 5:16

Tgt Ion: 85 Resp: 27213

Ion Ratio Lower Upper

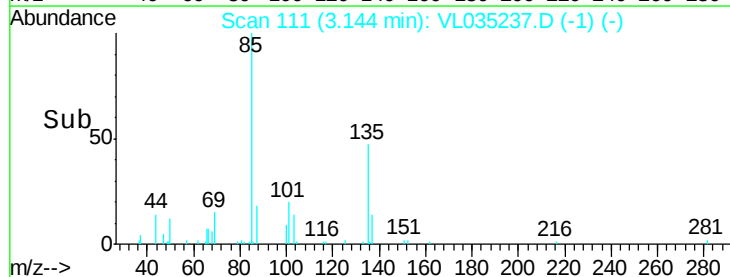
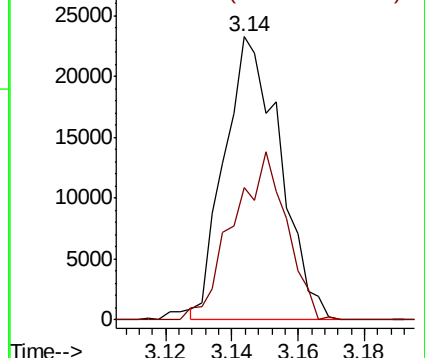
85 100

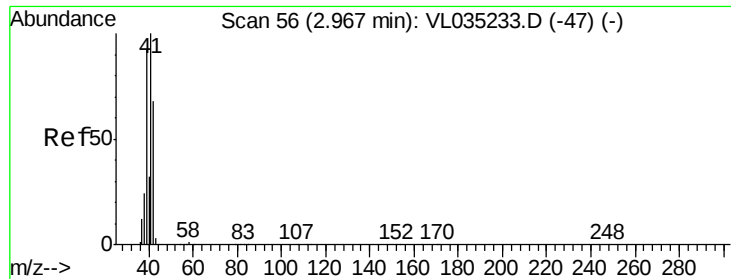
135 56.7 51.4 77.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.125 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.01 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :

MSVOA_L

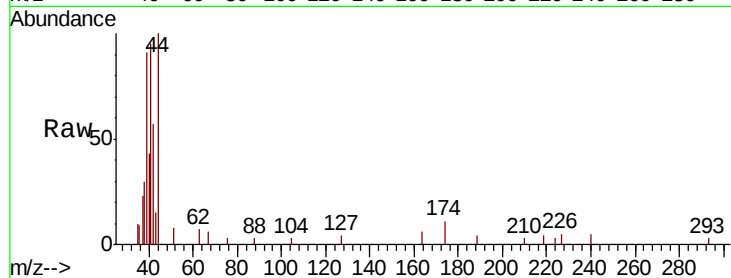
ClientSampleId :

Tot Ion: 41 Resp: 7002

Ion Ratio Lower Upper

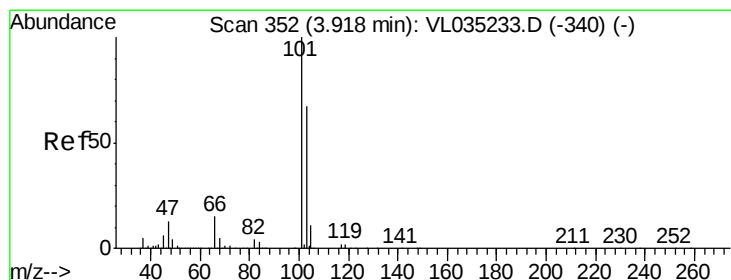
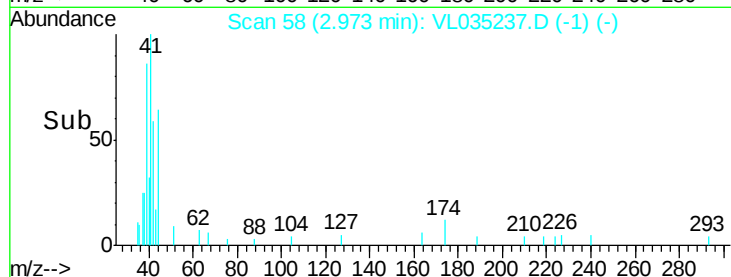
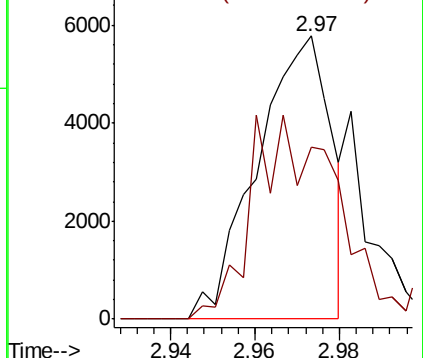
41 100

42 88.1 55.0 82.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.134 ppbv

RT: 3.92 min Scan# 352

Delta R.T. 0.00 min

Lab File: VL035237.D

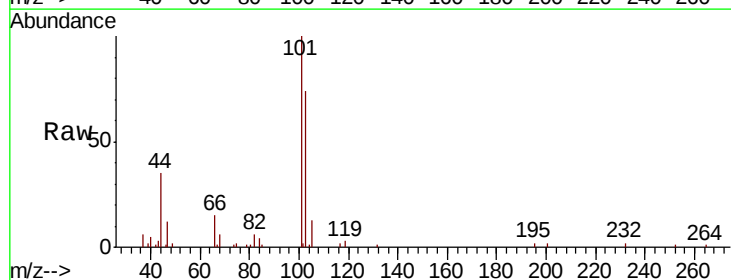
Acq: 29 Jul 2020 5:16

Tgt Ion: 101 Resp: 28814

Ion Ratio Lower Upper

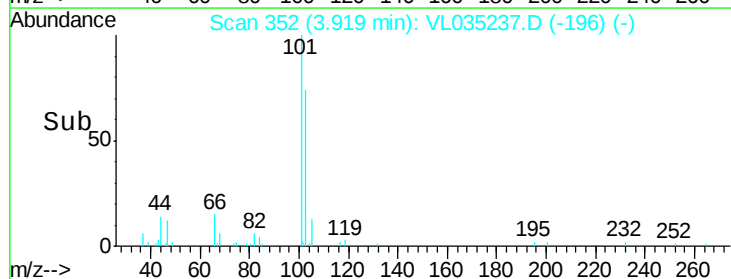
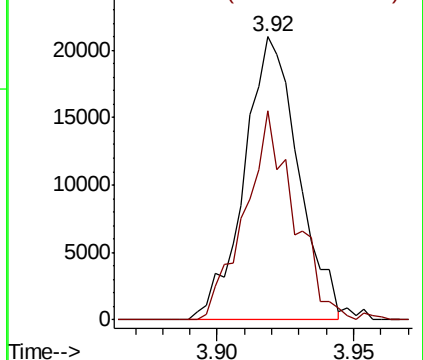
101 100

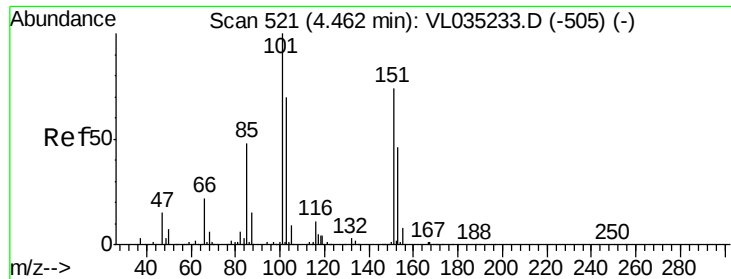
103 73.7 53.4 80.0



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: 0.052 ppbv

RT: 4.46 min Scan# 519

Delta R.T. -0.01 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :

MSVOA_L

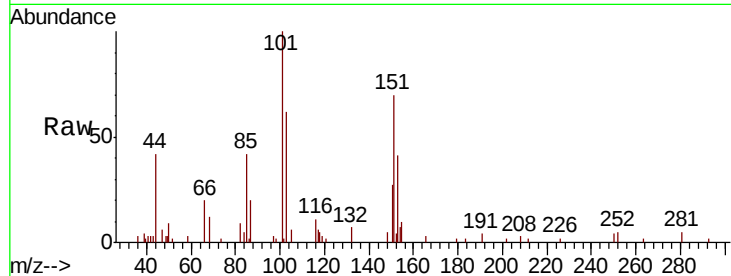
ClientSampleId :

Tot Ion:101 Resp: 7887

Ion Ratio Lower Upper

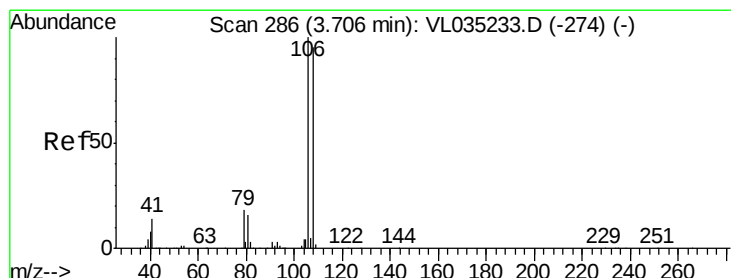
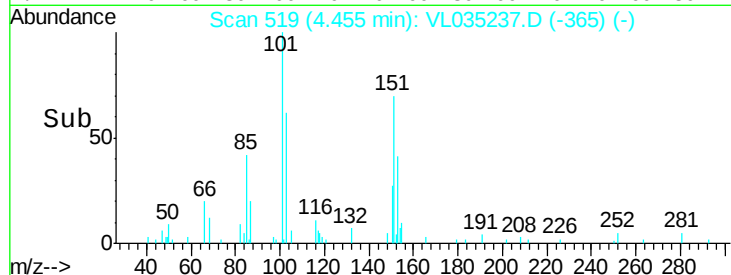
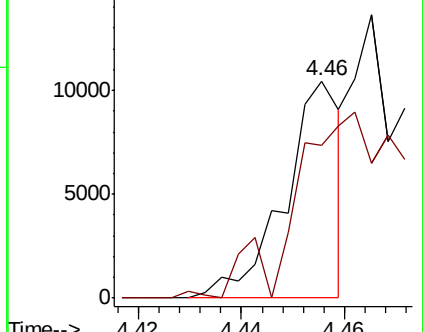
101 100

151 0.0 56.6 85.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#14

Bromoethene

Concen: 0.124 ppbv

RT: 3.70 min Scan# 284

Delta R.T. -0.01 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

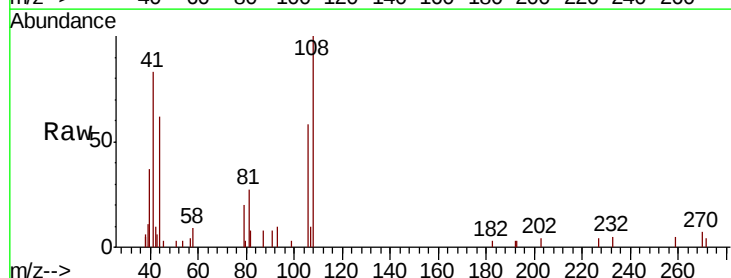
Tgt Ion:108 Resp: 7706

Ion Ratio Lower Upper

108 100

106 107.1 85.0 127.6

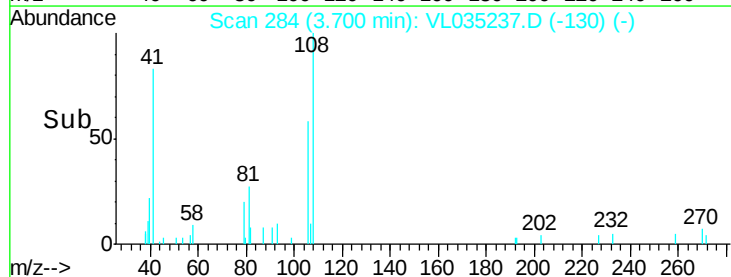
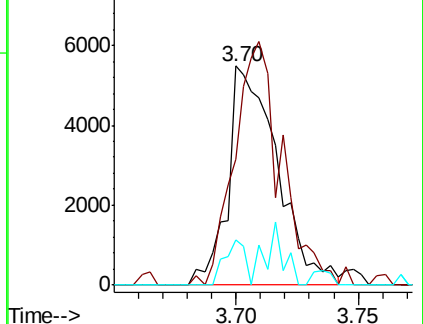
79 21.5 15.4 23.2

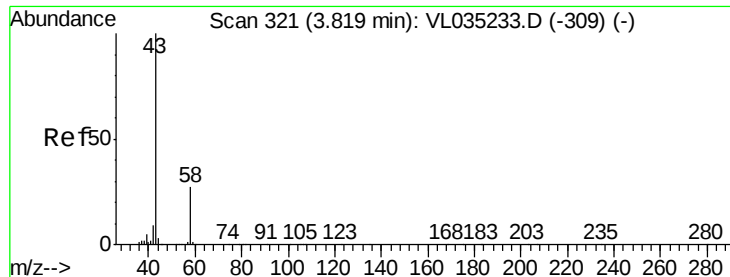


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 0.210 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.02 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :

MSVOA_L

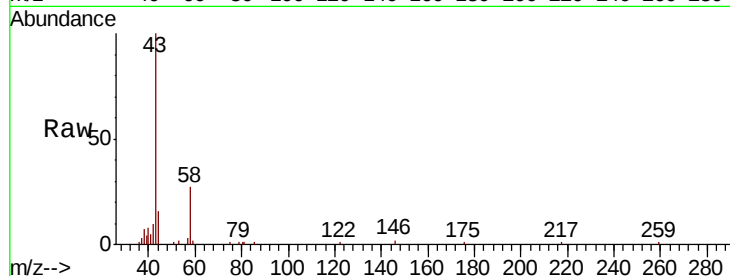
ClientSampleId :

Tot Ion: 43 Resp: 38574

Ion Ratio Lower Upper

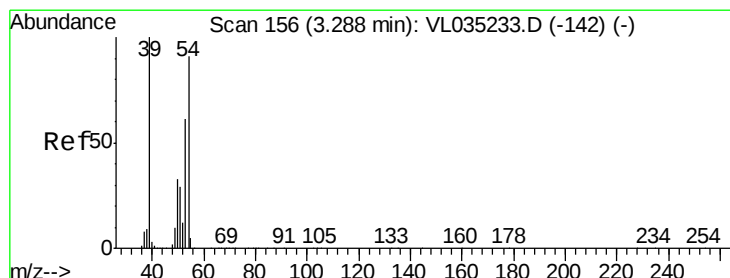
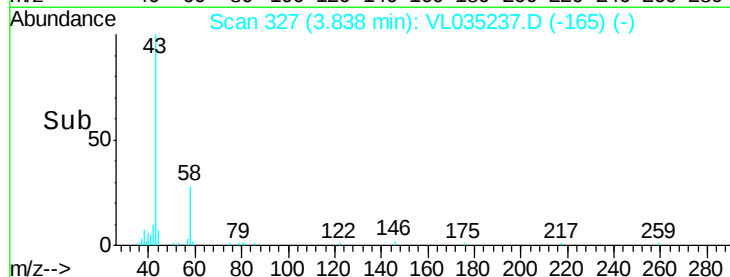
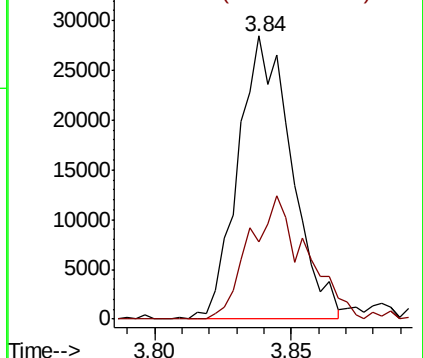
43 100

58 48.0 21.8 32.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.103 ppbv

RT: 3.29 min Scan# 156

Delta R.T. 0.00 min

Lab File: VL035237.D

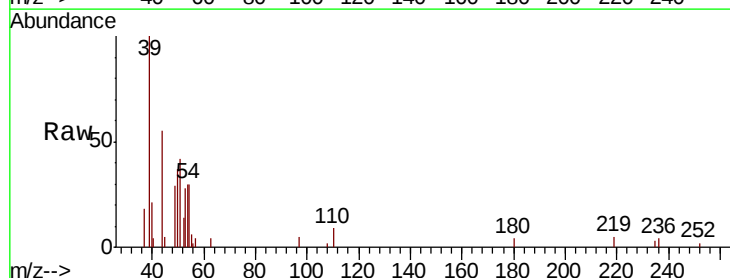
Acq: 29 Jul 2020 5:16

Tgt Ion: 39 Resp: 7284

Ion Ratio Lower Upper

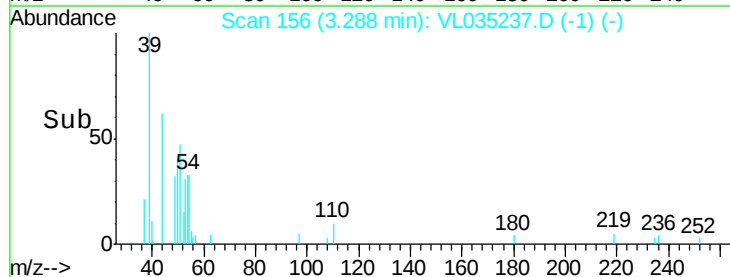
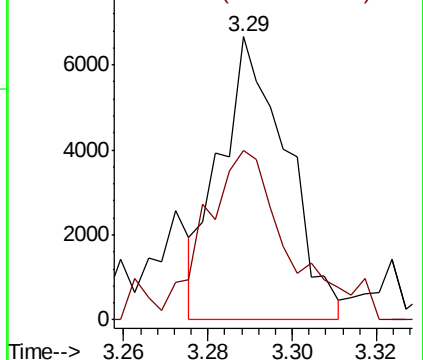
39 100

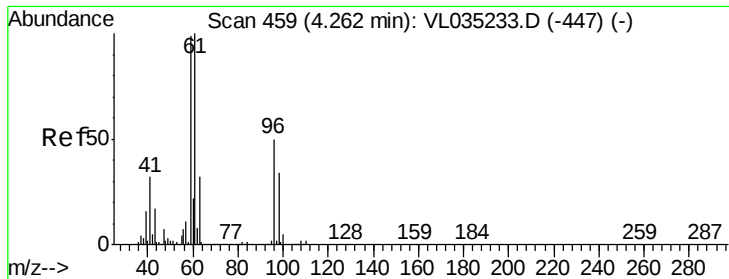
54 79.8 68.2 102.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

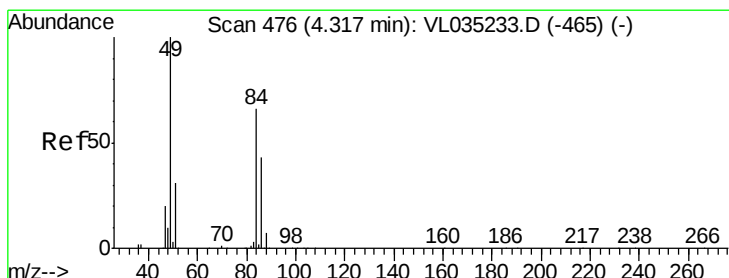
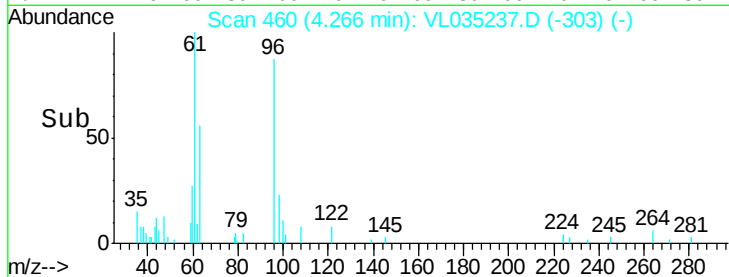
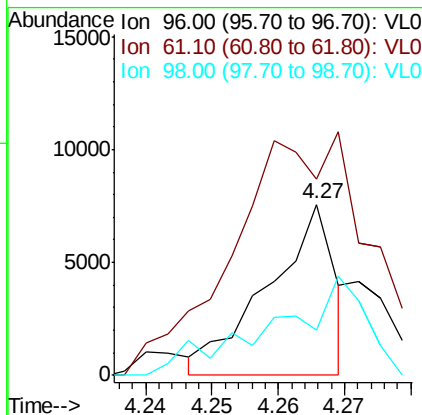
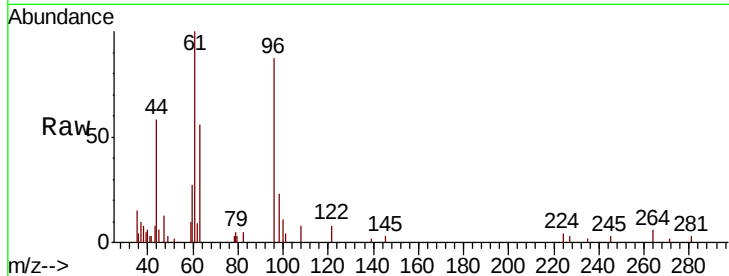




#18
1,1-Dichloroethene
Concen: 0.079 ppbv
RT: 4.27 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL035237.D
Acq: 29 Jul 2020 5:16

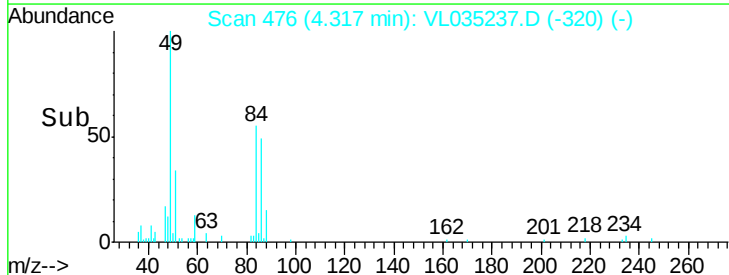
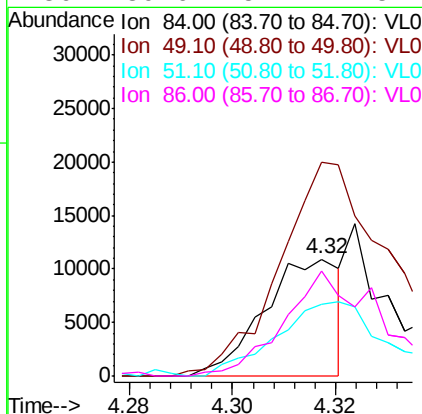
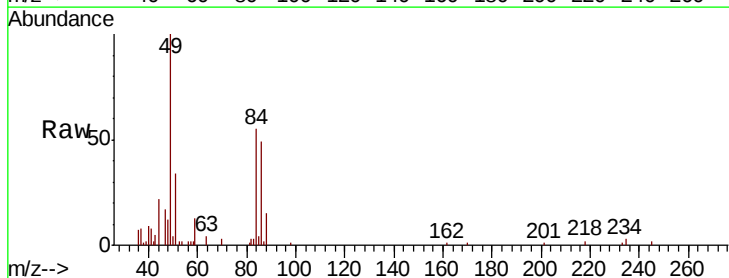
Instrument :
MSVOA_L
ClientSampled :

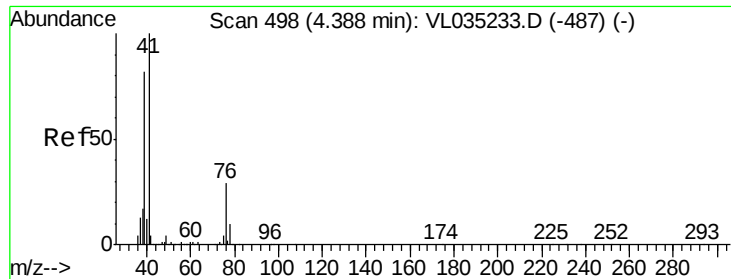
Tot Ion: 96 Resp: 5303
Ion Ratio Lower Upper
96 100
61 82.9 159.4 239.2#
98 6.7 53.9 80.9#



#20
Methylene Chloride
Concen: 0.139 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL035237.D
Acq: 29 Jul 2020 5:16

Tgt Ion: 84 Resp: 11204
Ion Ratio Lower Upper
84 100
49 178.7 121.0 181.4
51 61.2 37.7 56.5#
86 89.6 52.2 78.4#





#21

Allvl Chloride

Concen: 0.054 ppbv

RT: 4.38 min Scan# 497

Delta R.T. -0.00 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :

MSVOA_L

ClientSampled :

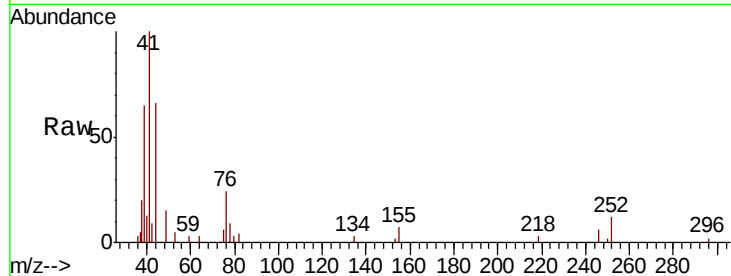
Tot Ion: 41 Resp: 5808

Ion Ratio Lower Upper

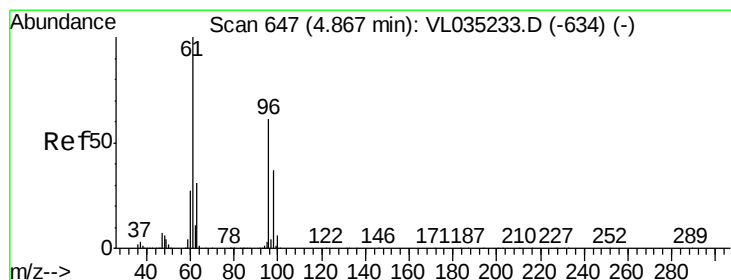
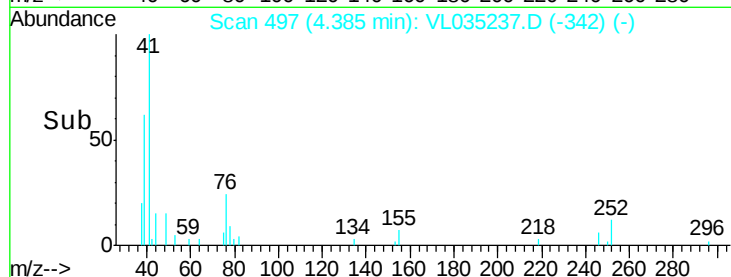
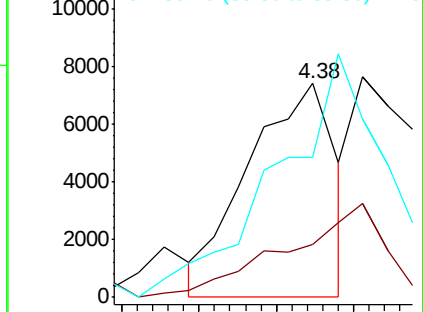
41 100

76 0.0 24.4 36.6#

39 0.0 63.8 95.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.095 ppbv

RT: 4.87 min Scan# 648

Delta R.T. 0.00 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

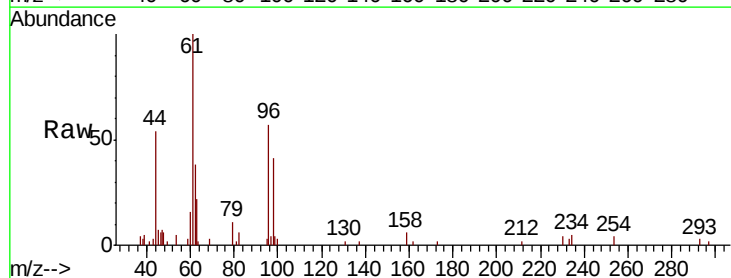
Tgt Ion: 96 Resp: 6345

Ion Ratio Lower Upper

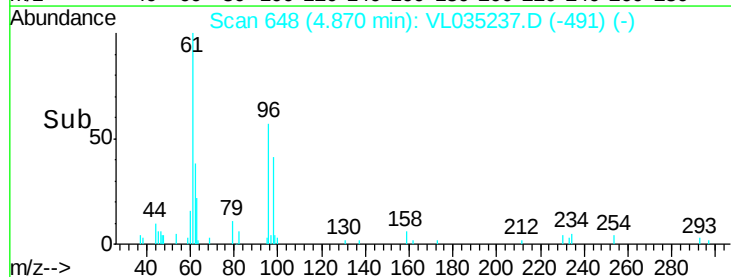
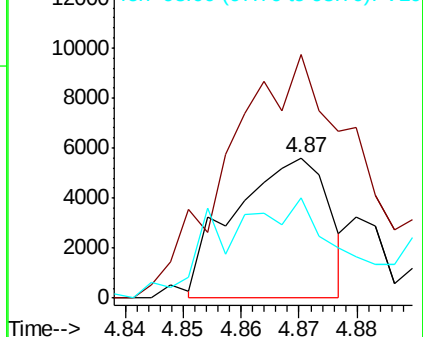
96 100

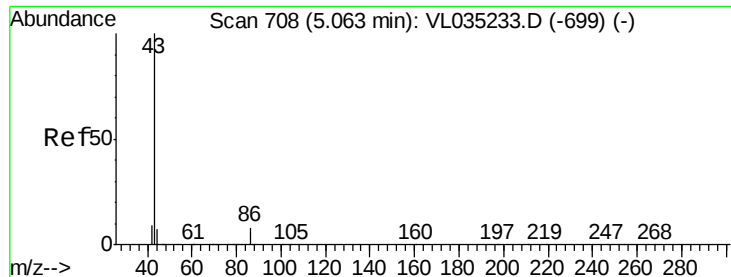
61 116.1 131.6 197.4#

98 58.7 49.0 73.4



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.067 ppbv

RT: 5.06 min Scan# 708

Delta R.T. 0.00 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 43 Resp: 13079

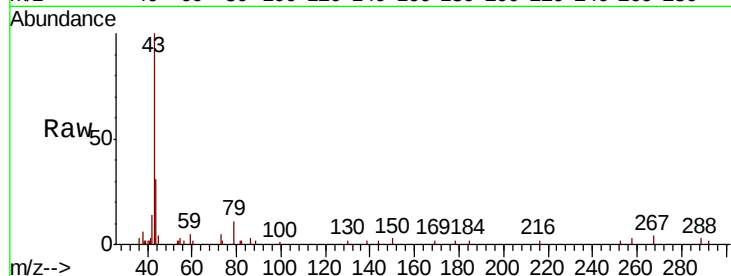
Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.2#

42 14.8 8.0 12.0#

44 0.0 5.2 7.8#

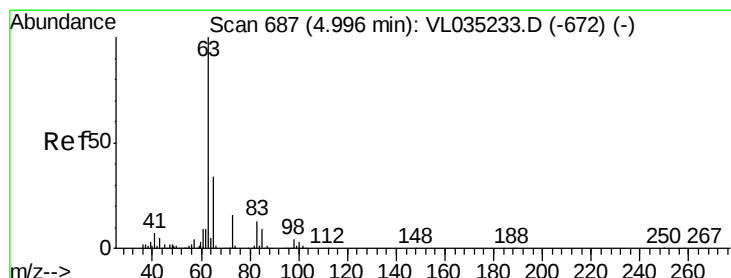
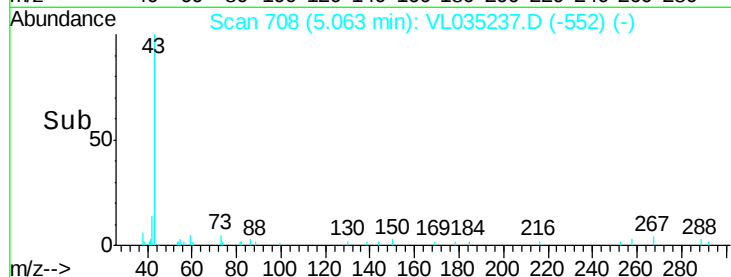
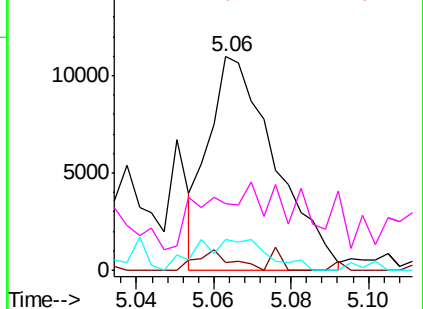


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.124 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.00 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

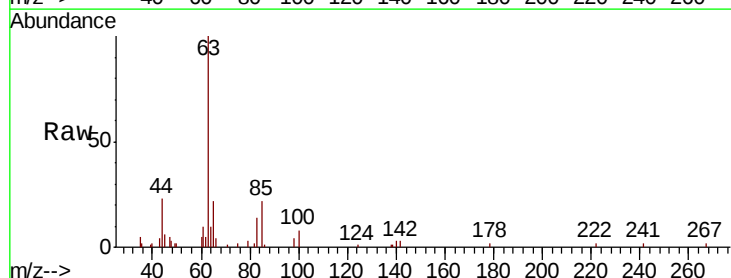
Tgt Ion: 63 Resp: 21238

Ion Ratio Lower Upper

63 100

98 4.1 1.9 5.7

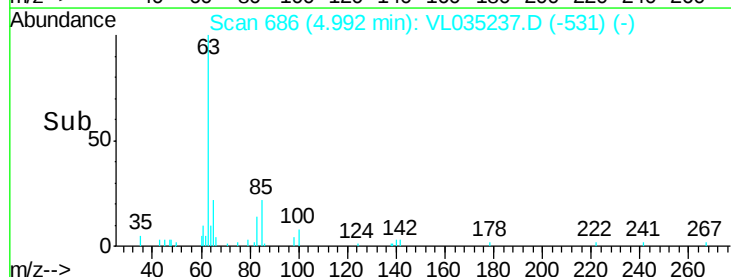
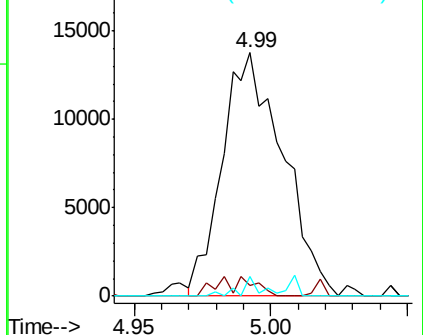
100 8.1 1.4 4.2#

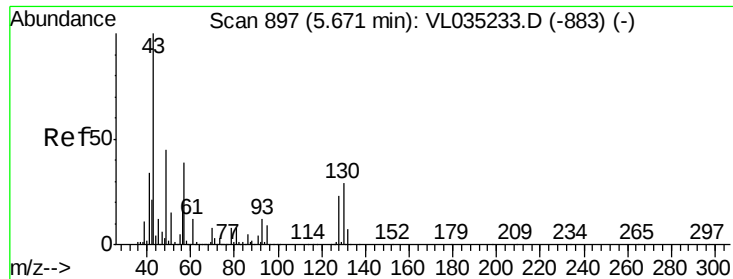


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

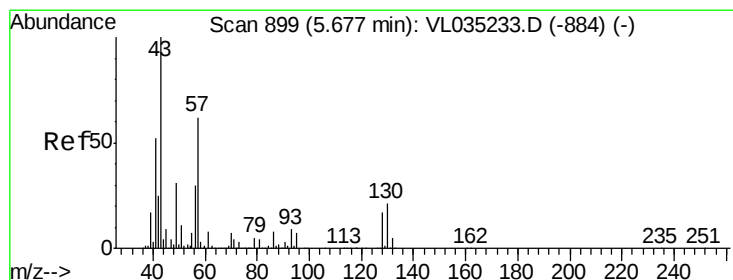
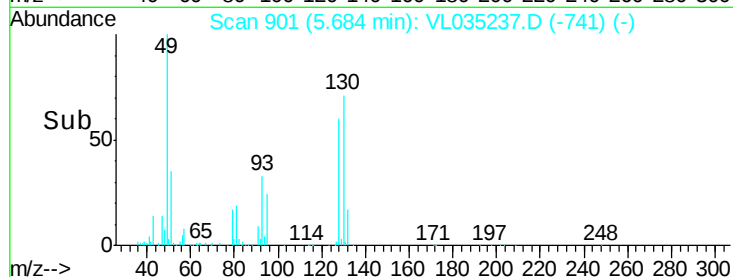
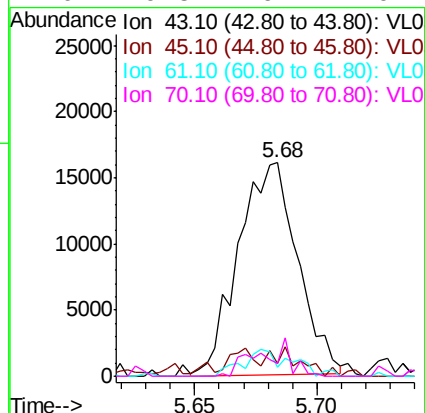
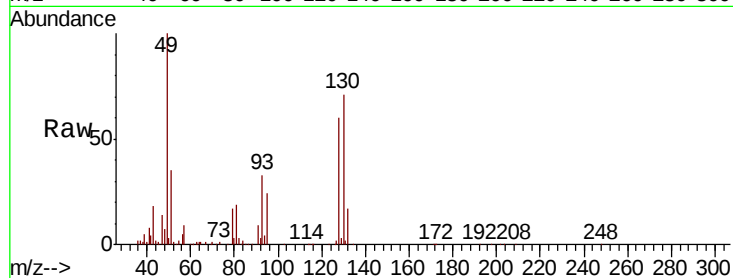




#25
Ethyl Acetate
Concen: 0.095 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.01 min
Lab File: VL035237.D
Acq: 29 Jul 2020 5:16

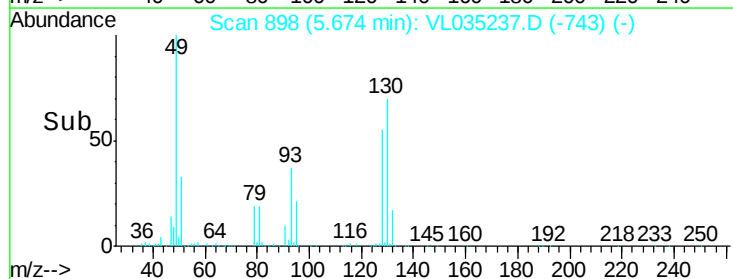
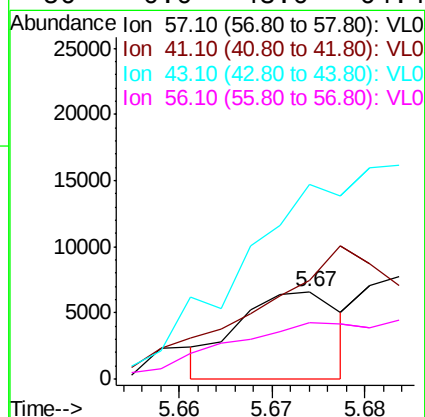
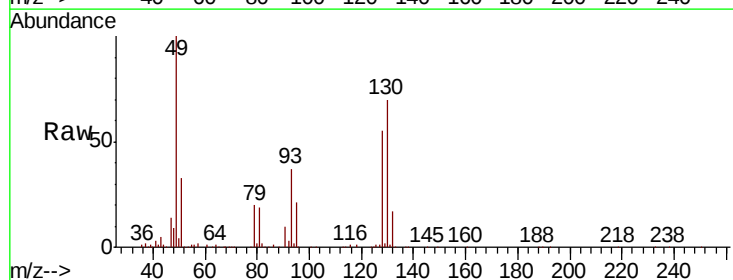
Instrument :
MSVOA_L
ClientSampled :

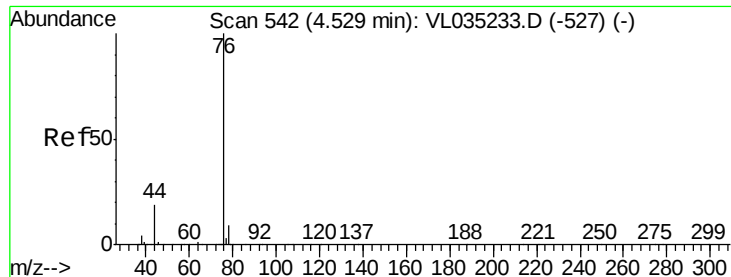
Tot Ion:	43	Resp:	27109
Ion	Ratio	Lower	Upper
43	100		
45	17.4	8.5	12.7#
61	10.4	8.1	12.1
70	9.5	6.2	9.4#



#26
Hexane
Concen: 0.040 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL035237.D
Acq: 29 Jul 2020 5:16

Tgt Ion:	57	Resp:	5016
Ion	Ratio	Lower	Upper
57	100		
41	300.2	73.9	110.9#
43	0.0	177.6	266.4#
56	0.0	43.0	64.4#





#27

Carbon Disulfide

Concen: 0.033 ppbv

RT: 4.53 min Scan# 542

Delta R.T. 0.00 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :

MSVOA_L

ClientSampled :

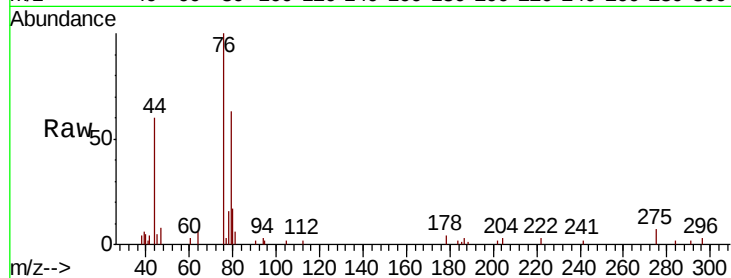
Tot Ion: 76 Resp: 5692

Ion Ratio Lower Upper

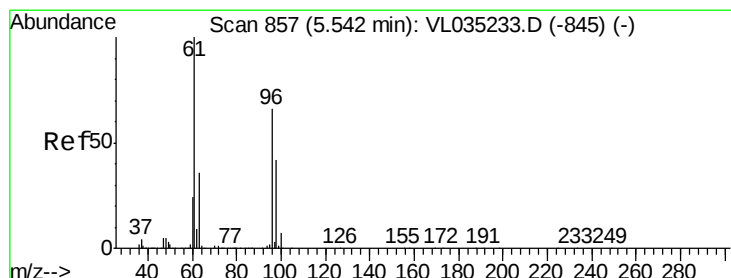
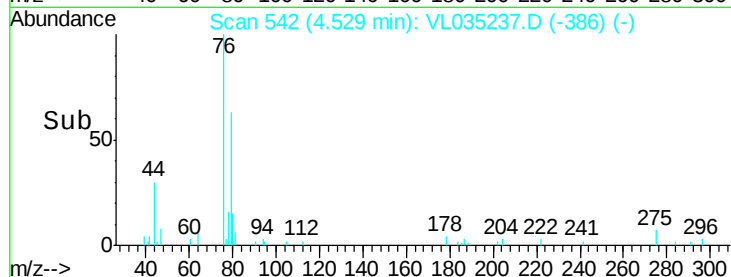
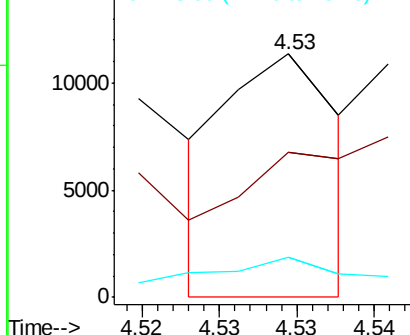
76 100

44 0.0 14.7 22.1#

78 0.0 7.6 11.4#



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



#31

cis-1,2-Dichloroethene

Concen: 0.049 ppbv

RT: 5.54 min Scan# 855

Delta R.T. -0.01 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

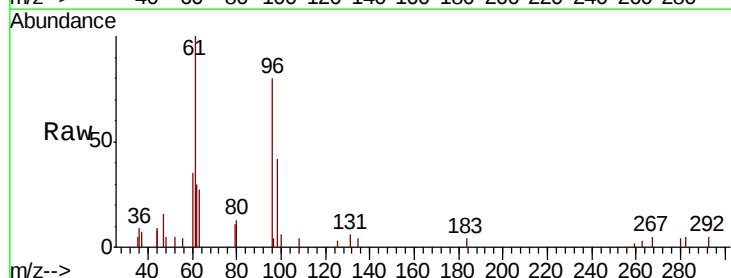
Tgt Ion: 61 Resp: 5744

Ion Ratio Lower Upper

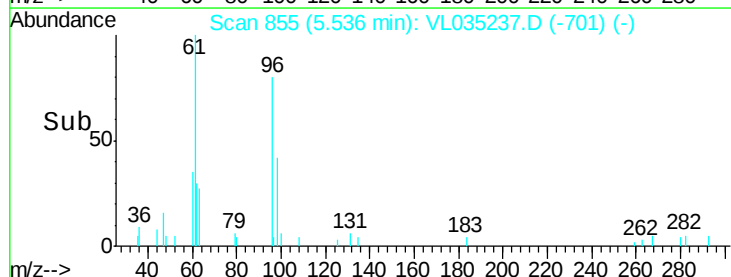
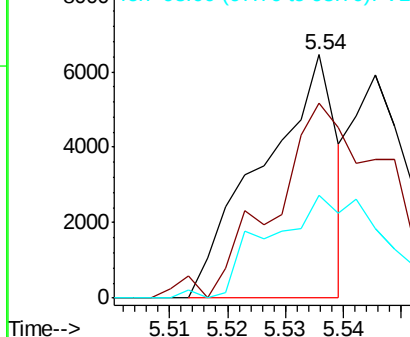
61 100

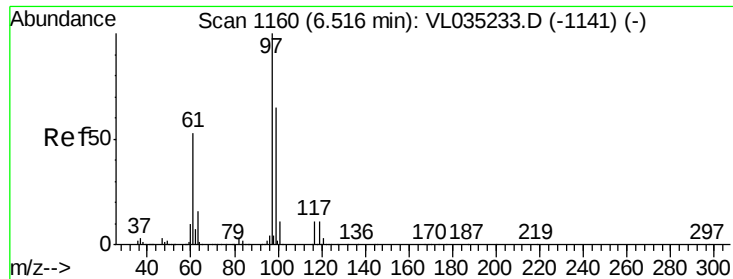
96 70.6 52.6 78.8

98 38.6 33.7 50.5



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0





#32

1,1,1-Trichloroethane

Concen: 0.031 ppbv

RT: 6.52 min Scan# 1161

Delta R.T. 0.00 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :
MSVOA_L
ClientSampleId :

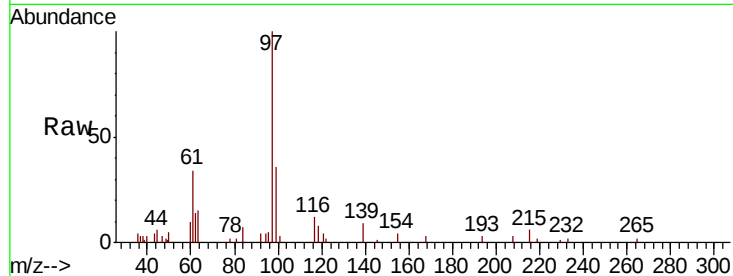
Tot Ion: 97 Resp: 6456

Ion Ratio Lower Upper

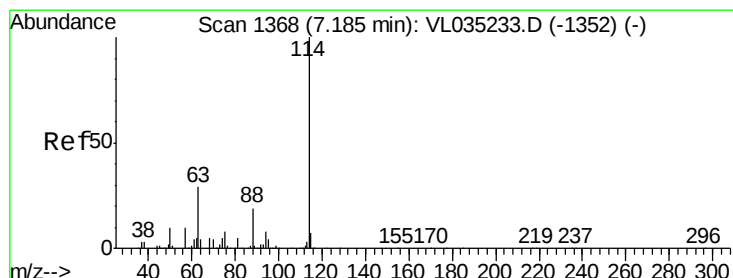
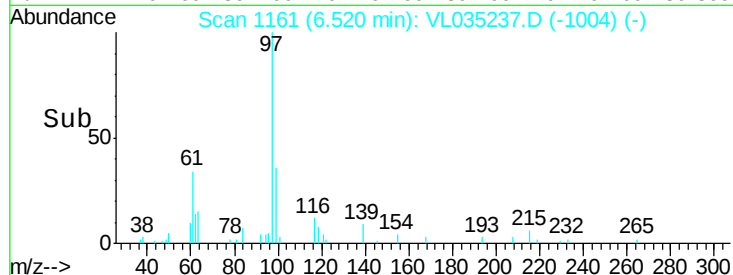
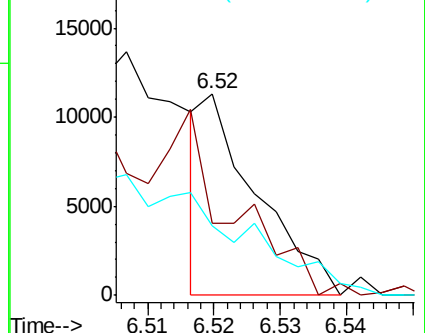
97 100

99 235.4 51.4 77.0#

61 0.0 40.4 60.6#



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: 7.18 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

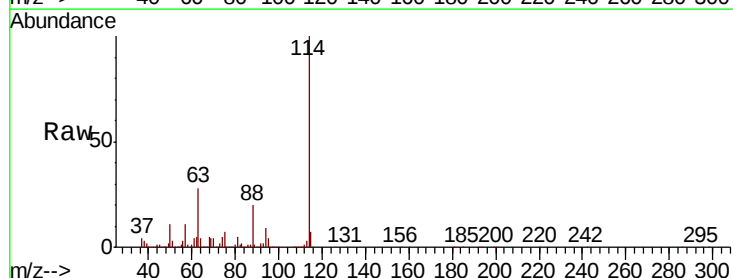
Tgt Ion: 114 Resp: 3295358

Ion Ratio Lower Upper

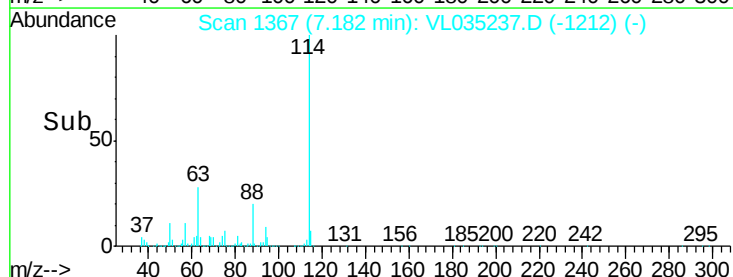
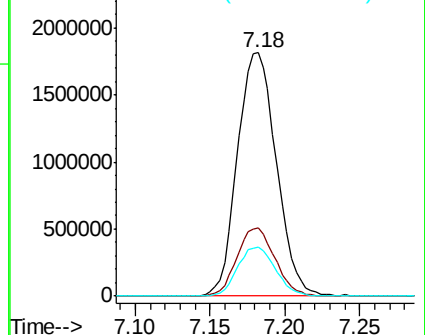
114 100

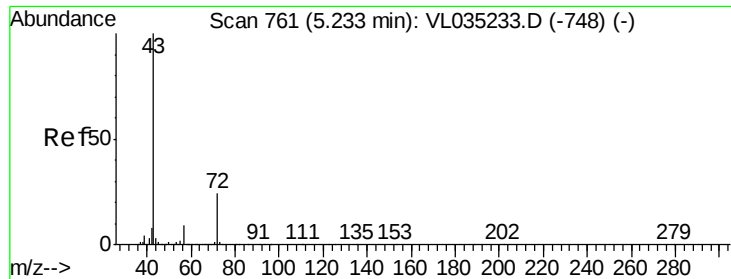
63 27.6 22.2 33.2

88 19.6 15.4 23.0



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

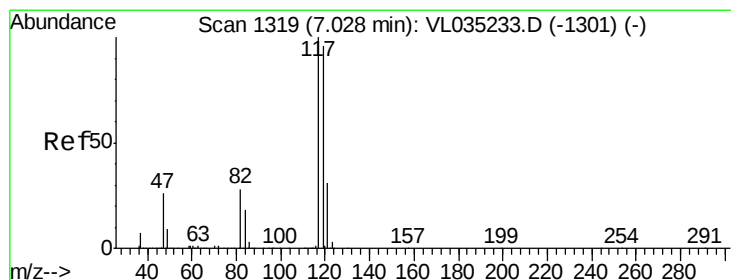
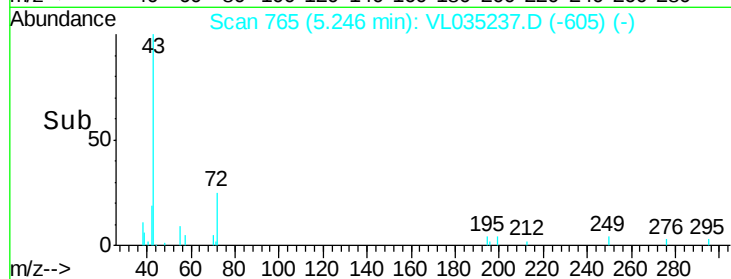
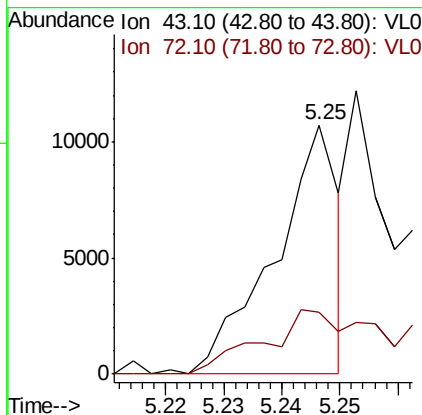
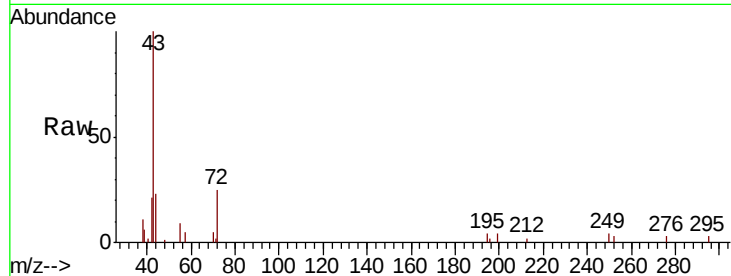




#34
2-Butanone
Concen: 0.047 ppbv
RT: 5.25 min Scan# 765
Delta R.T. 0.01 min
Lab File: VL035237.D
Acq: 29 Jul 2020 5:16

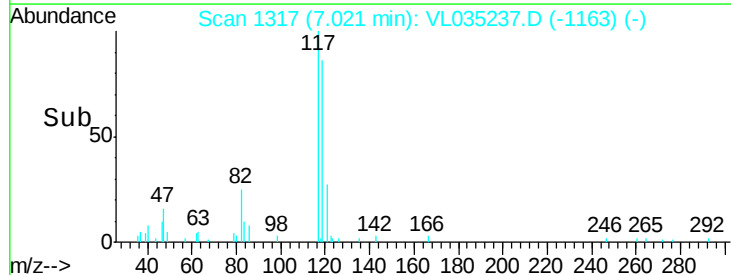
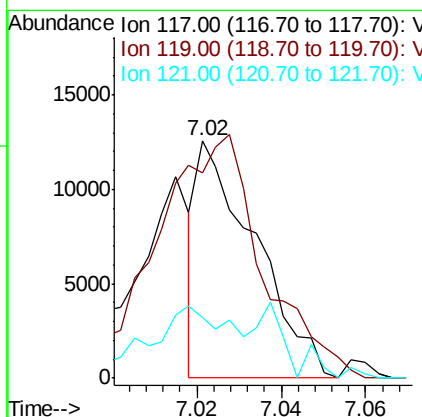
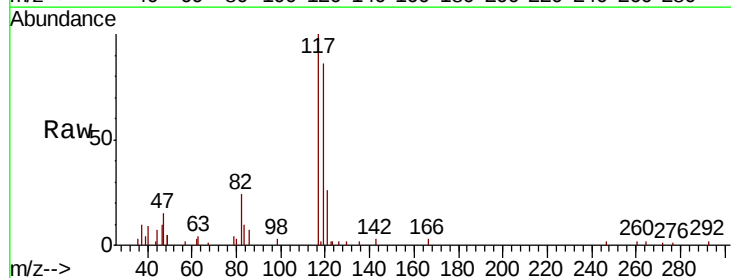
Instrument :
MSVOA_L
ClientSampled :

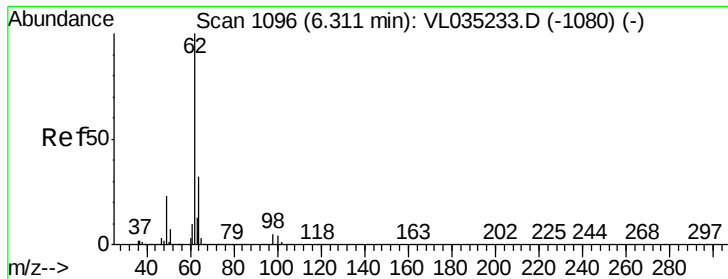
Tot Ion: 43 Resp: 8188
Ion Ratio Lower Upper
43 100
72 56.6 19.2 28.8#



#35
Carbon Tetrachloride
Concen: 0.056 ppbv
RT: 7.02 min Scan# 1317
Delta R.T. -0.01 min
Lab File: VL035237.D
Acq: 29 Jul 2020 5:16

Tgt Ion: 117 Resp: 12049
Ion Ratio Lower Upper
117 100
119 77.2 76.8 115.2
121 25.7 24.5 36.7





#37

1,2-Dichloroethane

Concen: 0.111 ppbv

RT: 6.31 min Scan# 1095

Delta R.T. -0.00 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :

MSVOA_L

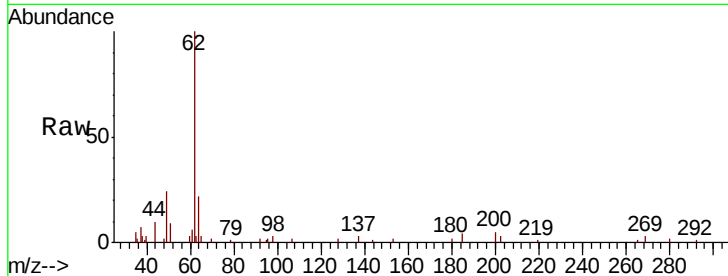
ClientSampled :

Tot Ion: 62 Resp: 17839

Ion Ratio Lower Upper

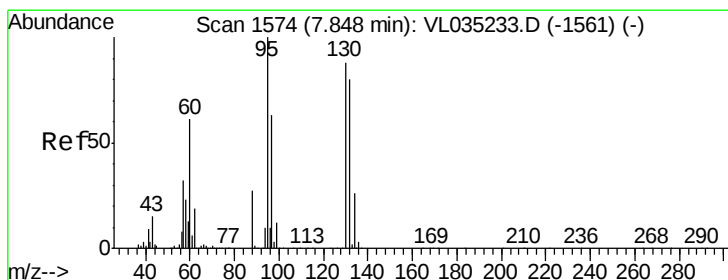
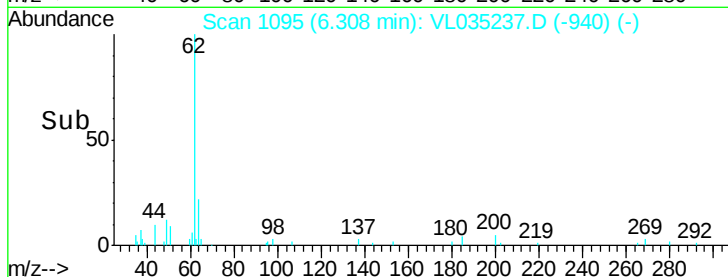
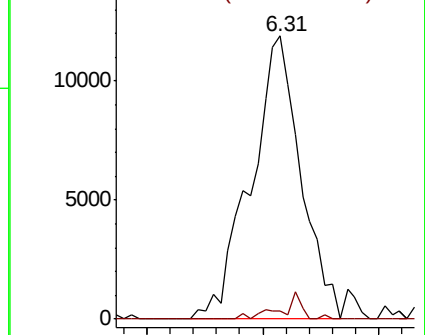
62 100

98 3.8 4.5 6.7#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.035 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Tgt Ion: 130 Resp: 3414

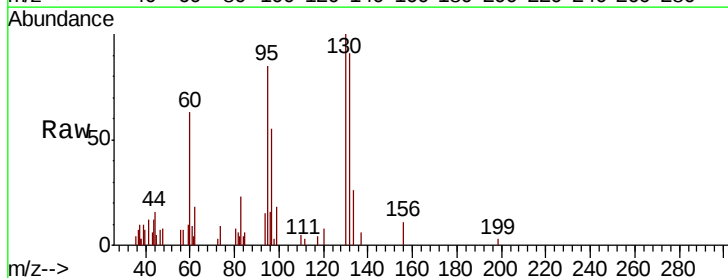
Ion Ratio Lower Upper

130 100

95 12.4 90.7 136.1#

132 48.5 72.9 109.3#

97 11.0 57.1 85.7#

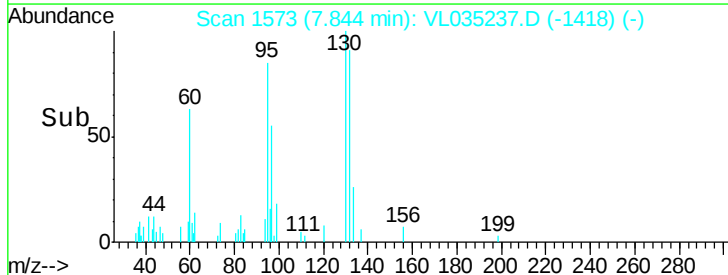
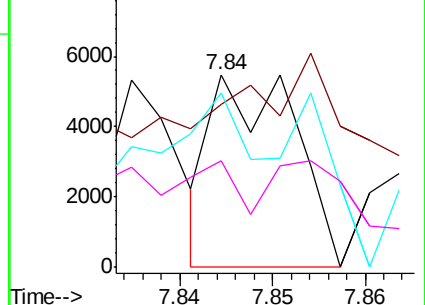


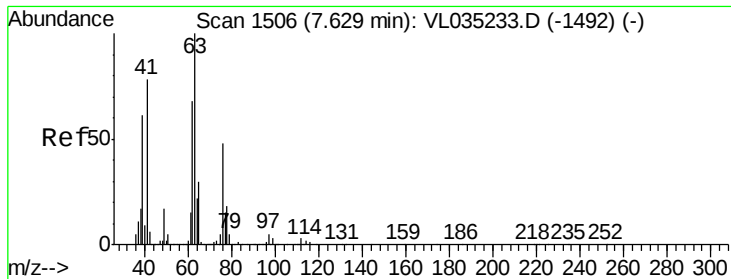
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 9.454 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.45 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :

MSVOA_L

ClientSampleId :

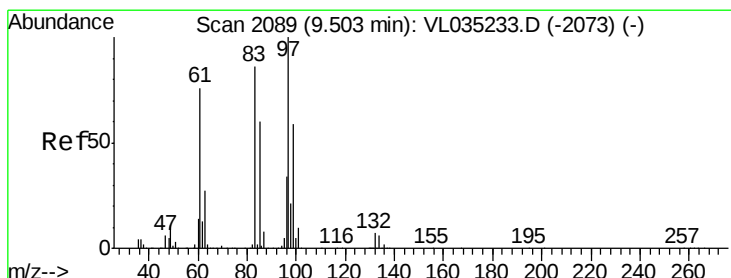
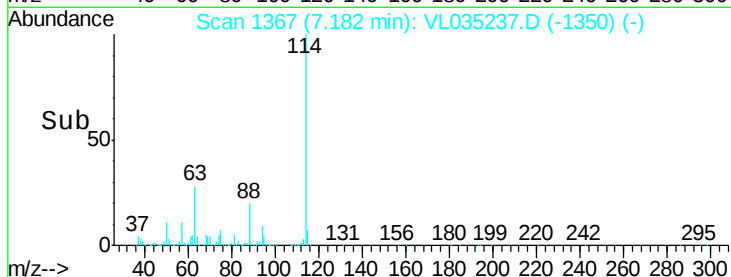
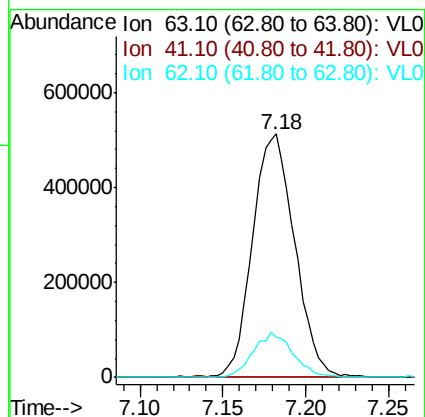
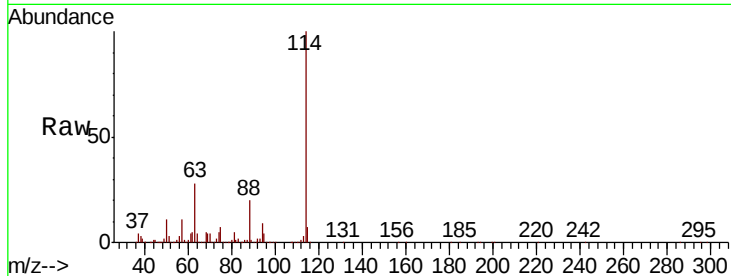
Tot Ion: 63 Resp: 902979

Ion Ratio Lower Upper

63 100

41 0.0 62.2 93.4#

62 16.3 54.2 81.2#



#47

1,1,2-Trichloroethane

Concen: 0.078 ppbv

RT: 9.50 min Scan# 2087

Delta R.T. -0.01 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Tgt Ion: 97 Resp: 8143

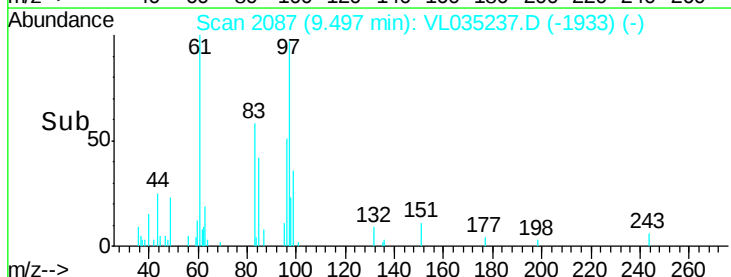
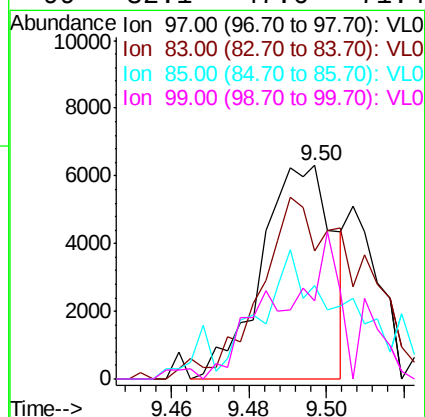
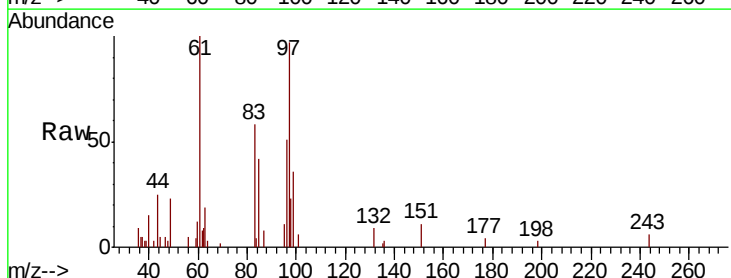
Ion Ratio Lower Upper

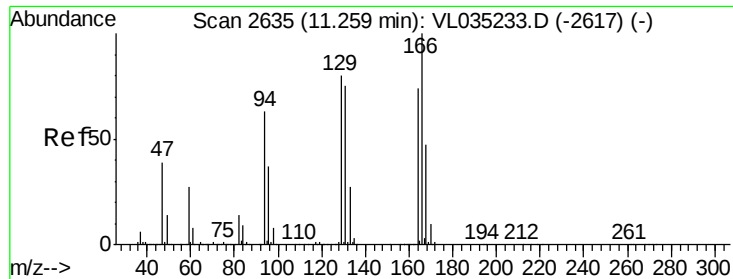
97 100

83 50.3 69.0 103.4#

85 35.5 47.8 71.8#

99 32.1 47.6 71.4#





#52

Tetrachloroethene

Concen: 0.070 ppbv

RT: 11.25 min Scan# 2633

Delta R.T. -0.01 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 6264

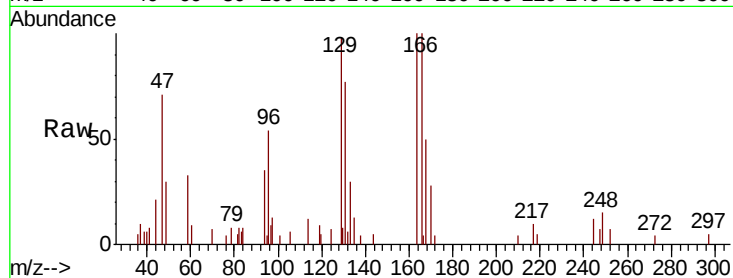
Ion Ratio Lower Upper

164 100

166 100.1 107.5 161.3#

129 94.2 86.0 129.0

131 0.1 80.3 120.5#

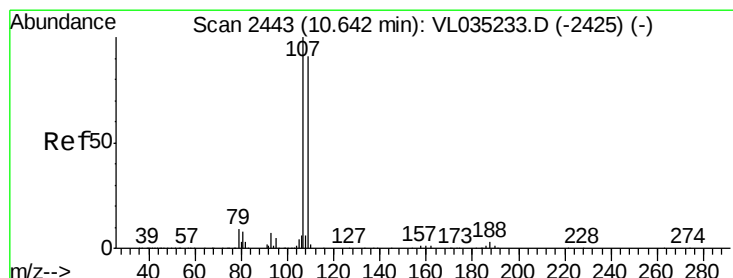
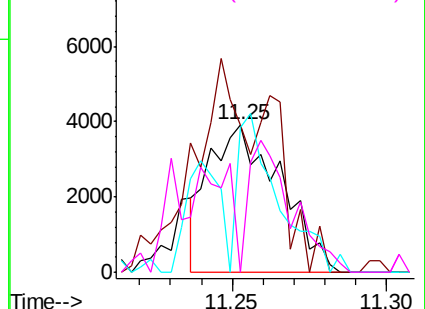
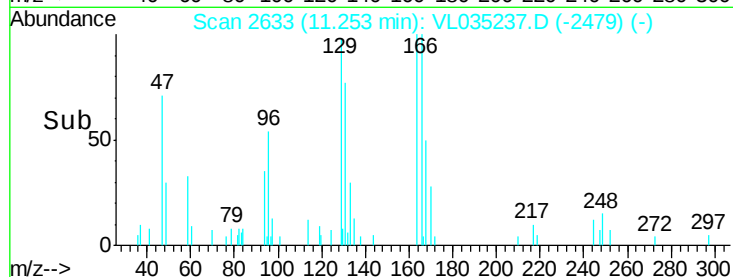


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.079 ppbv

RT: 10.64 min Scan# 2442

Delta R.T. -0.00 min

Lab File: VL035237.D

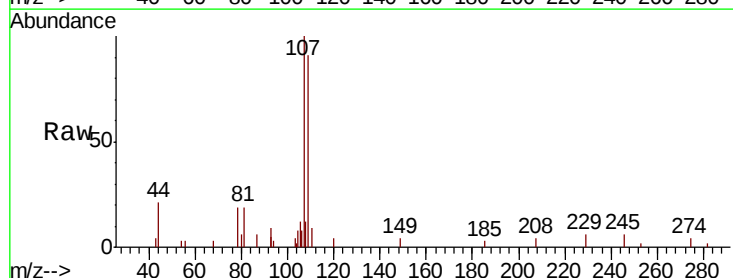
Acq: 29 Jul 2020 5:16

Tgt Ion:107 Resp: 12266

Ion Ratio Lower Upper

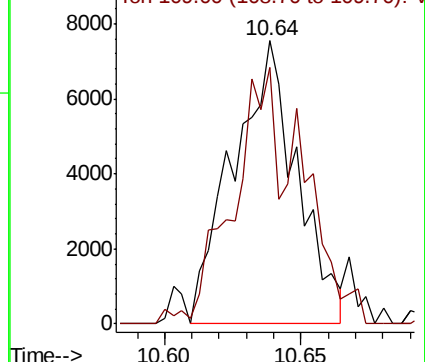
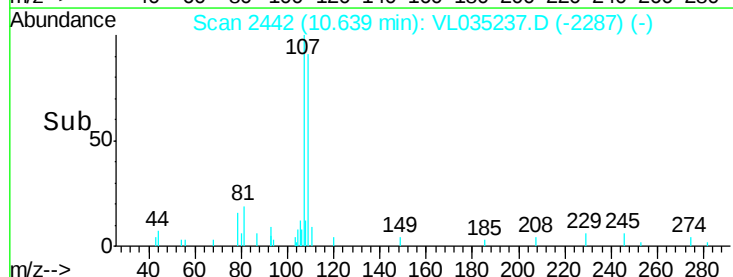
107 100

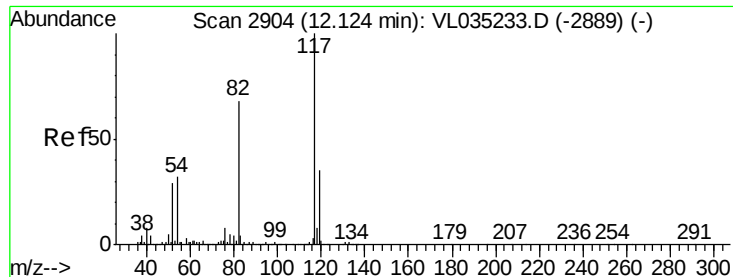
109 88.6 73.0 109.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

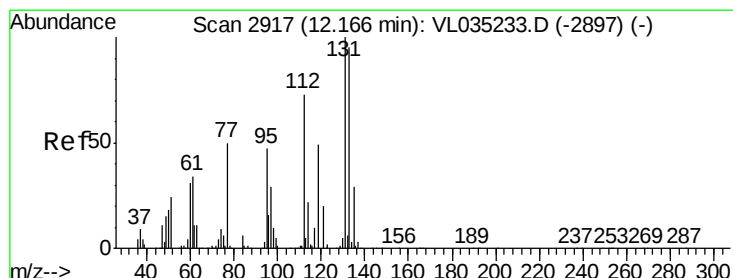
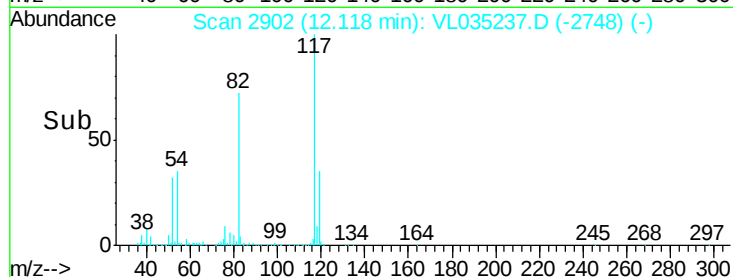
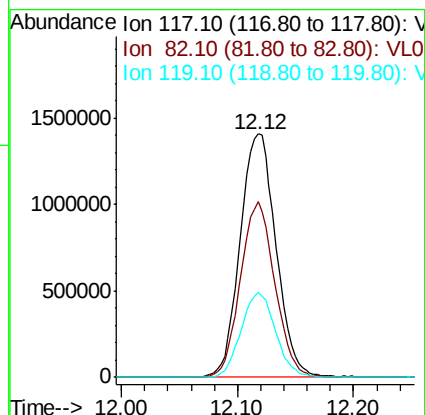
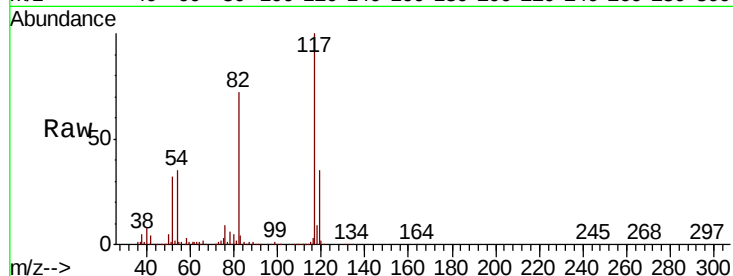




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. -0.01 min
Lab File: VL035237.D
Acq: 29 Jul 2020 5:16

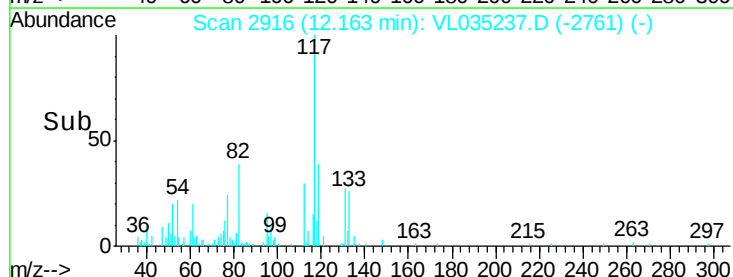
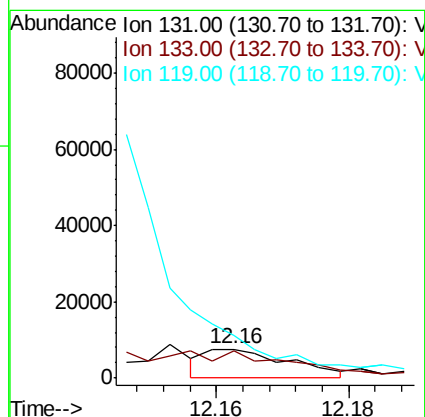
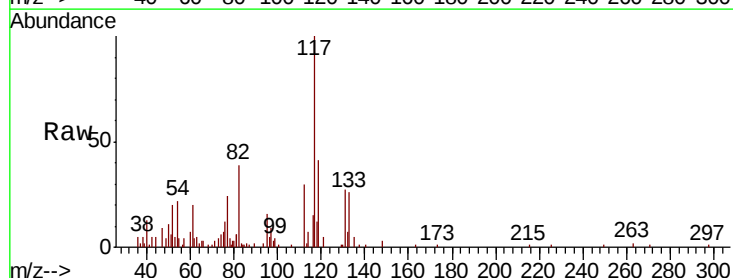
Instrument :
MSVOA_L
ClientSampleId :

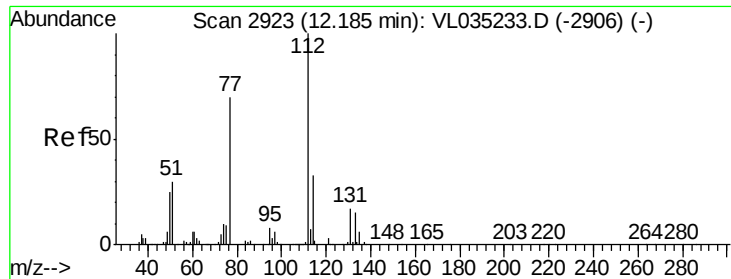
Tot Ion:117 Resp: 3039276
Ion Ratio Lower Upper
117 100
82 69.3 52.4 78.6
119 33.8 24.6 36.8



#56
1,1,1,2-Tetrachloroethane
Concen: 0.049 ppbv
RT: 12.16 min Scan# 2916
Delta R.T. -0.00 min
Lab File: VL035237.D
Acq: 29 Jul 2020 5:16

Tgt Ion:131 Resp: 6735
Ion Ratio Lower Upper
131 100
133 0.0 76.1 114.1#
119 0.0 44.3 66.5#

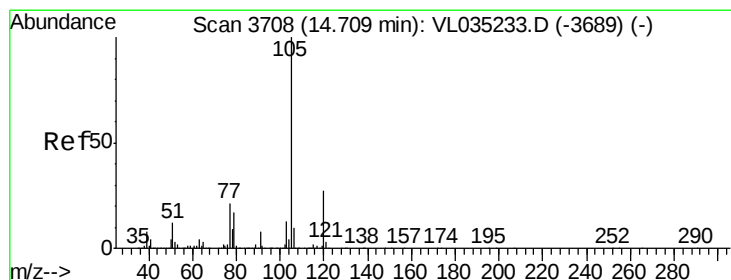
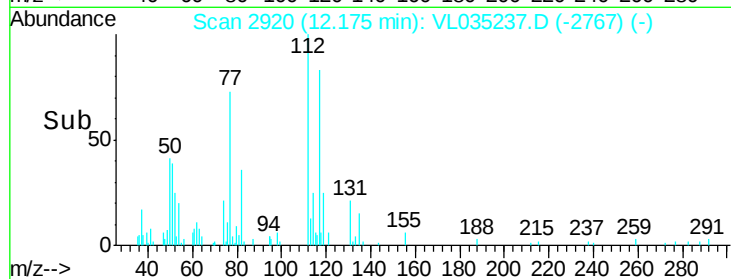
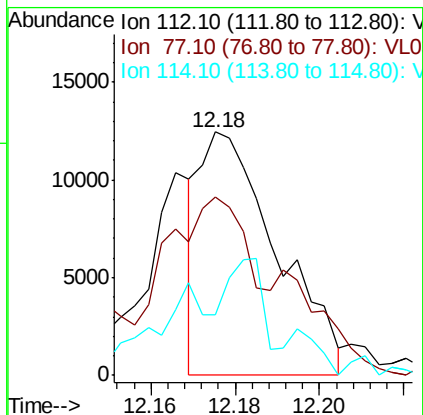
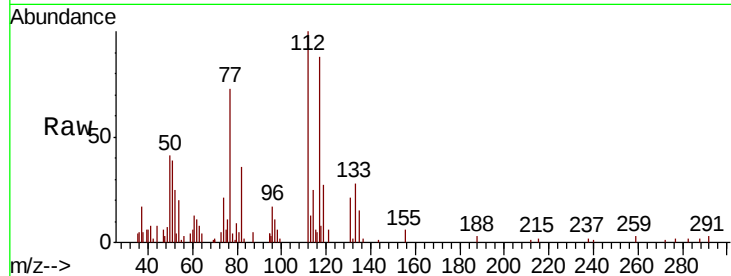




#57
Chlorobenzene
Concen: 0.069 ppbv
RT: 12.18 min Scan# 2920
Delta R.T. -0.01 min
Lab File: VL035237.D
Acq: 29 Jul 2020 5:16

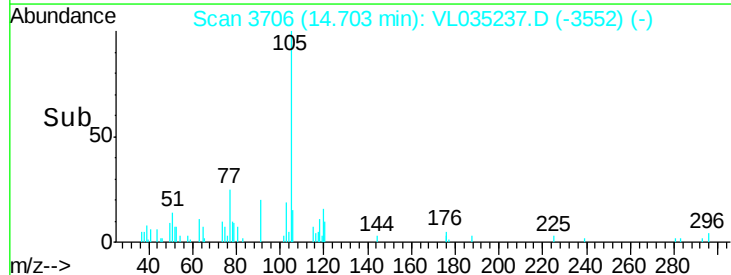
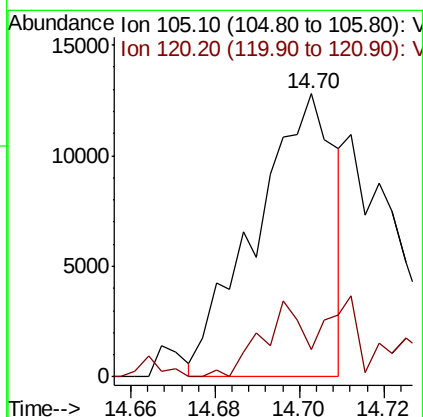
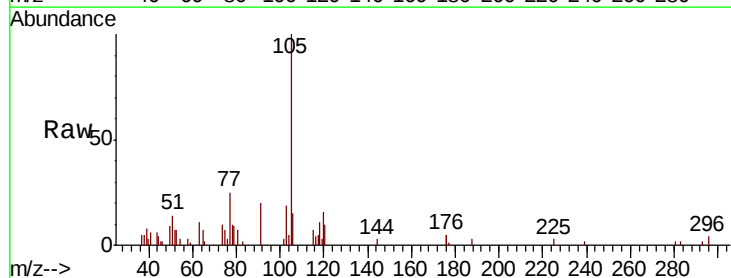
Instrument :
MSVOA_L
ClientSampleId :

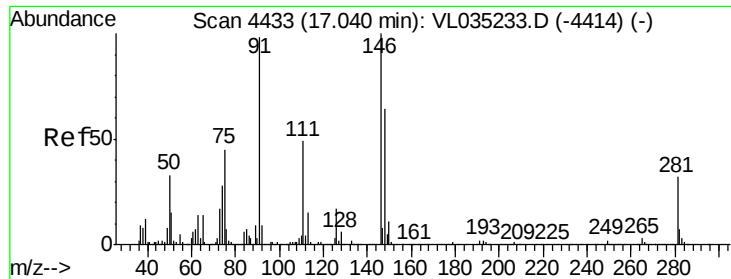
Tot Ion:112 Resp: 15740
Ion Ratio Lower Upper
112 100
77 53.2 57.3 85.9#
114 24.3 29.3 35.8#



#62
Isopropylbenzene
Concen: 0.037 ppbv
RT: 14.70 min Scan# 3706
Delta R.T. -0.01 min
Lab File: VL035237.D
Acq: 29 Jul 2020 5:16

Tgt Ion:105 Resp: 16731
Ion Ratio Lower Upper
105 100
120 0.0 20.8 31.2#

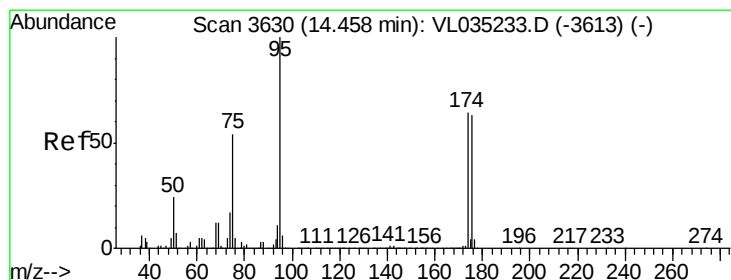
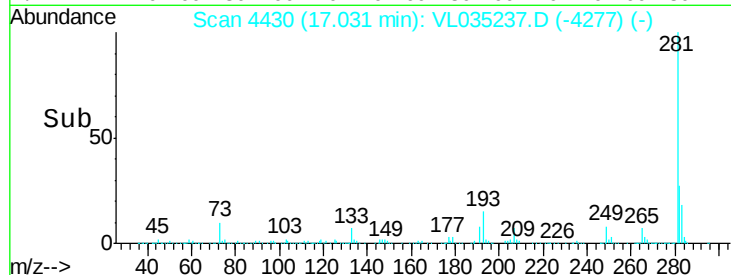
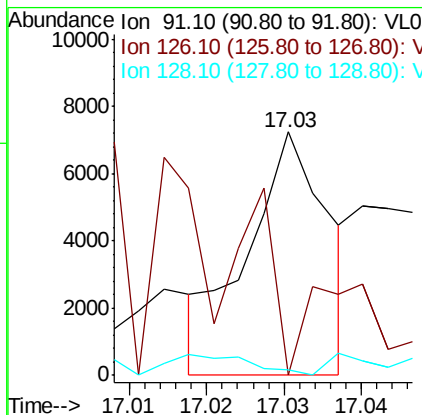
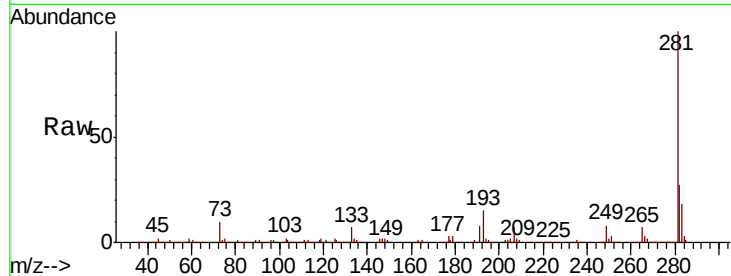




#66
Benzyl Chloride
Concen: 0.036 ppbv
RT: 17.03 min Scan# 4430
Delta R.T. -0.01 min
Lab File: VL035237.D
Acq: 29 Jul 2020 5:16

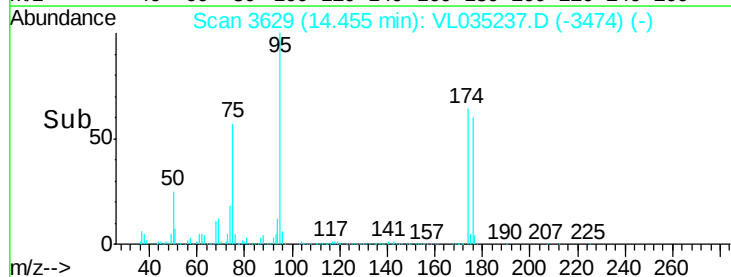
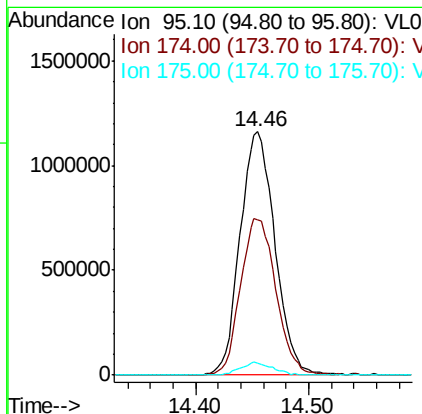
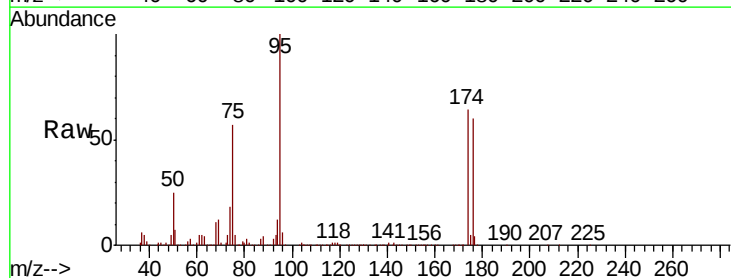
Instrument :
MSVOA_L
ClientSampled :

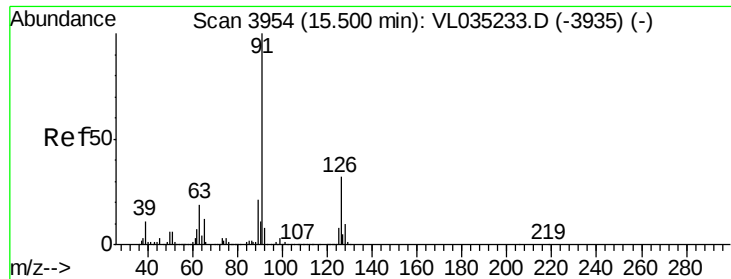
Tot Ion: 91 Resp: 5264
Ion Ratio Lower Upper
91 100
126 0.0 14.1 21.1#
128 0.0 4.4 6.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.060 ppbv
RT: 14.46 min Scan# 3629
Delta R.T. -0.00 min
Lab File: VL035237.D
Acq: 29 Jul 2020 5:16

Tgt Ion: 95 Resp: 2489001
Ion Ratio Lower Upper
95 100
174 65.7 52.7 79.1
175 5.0 3.9 5.9

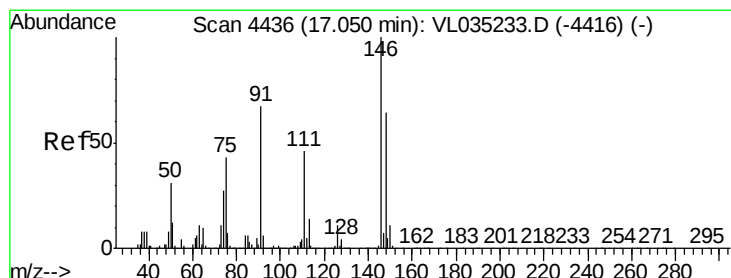
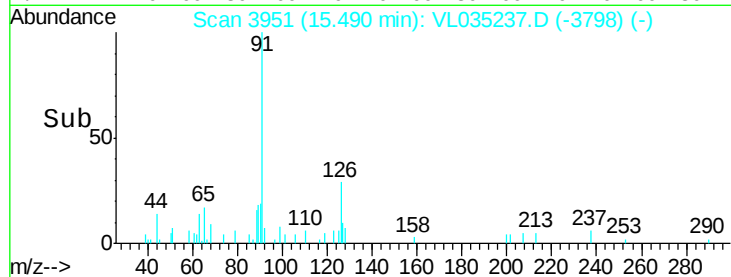
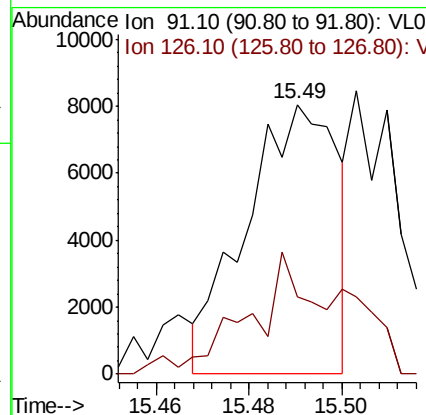
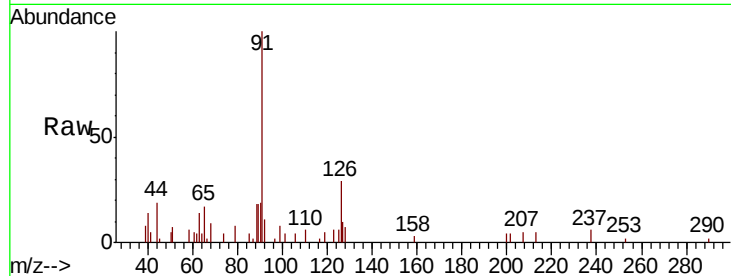




#71
 2-Chlorotoluene
 Concen: 0.032 ppbv
 RT: 15.49 min Scan# 3951
 Delta R.T. -0.01 min
 Lab File: VL035237.D
 Acq: 29 Jul 2020 5:16

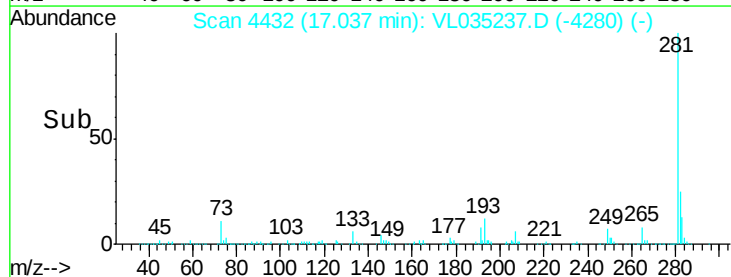
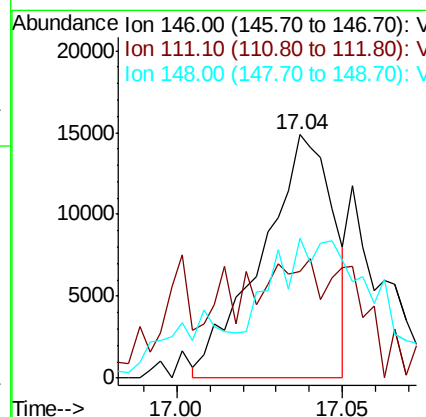
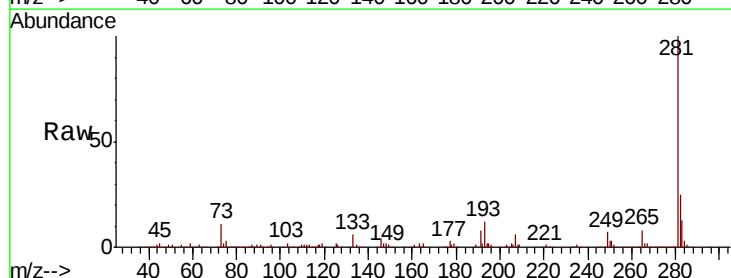
Instrument :
 MSVOA_L
 ClientSampleId :

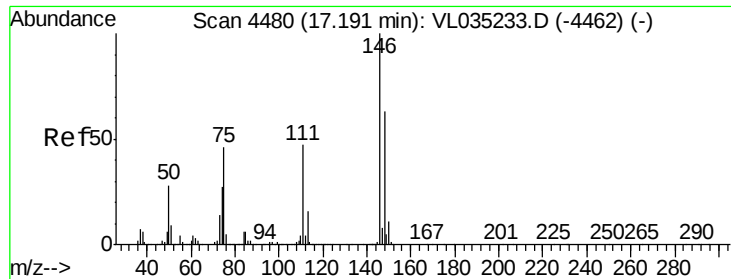
Tot Ion: 91 Resp: 11009
 Ion Ratio Lower Upper
 91 100
 126 48.4 12.3 49.1



#75
 1,3-Dichlorobenzene
 Concen: 0.096 ppbv
 RT: 17.04 min Scan# 4432
 Delta R.T. -0.01 min
 Lab File: VL035237.D
 Acq: 29 Jul 2020 5:16

Tgt Ion: 146 Resp: 22266
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.4 73.4#
 148 109.9 32.1 96.5#

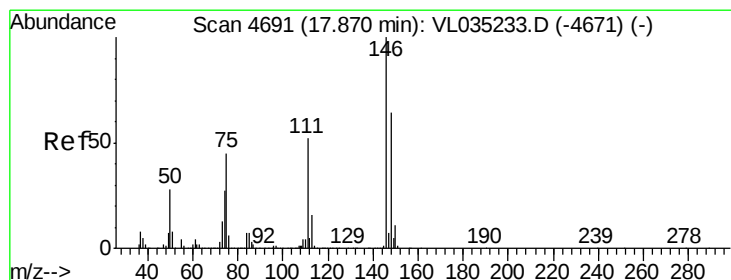
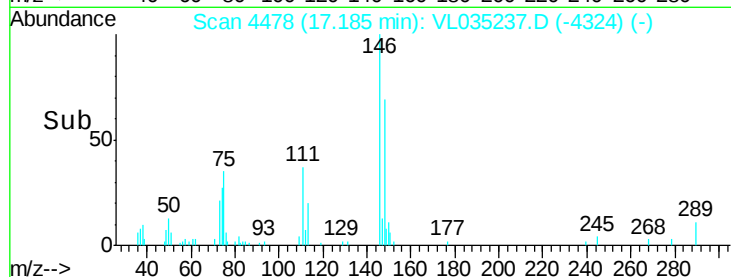
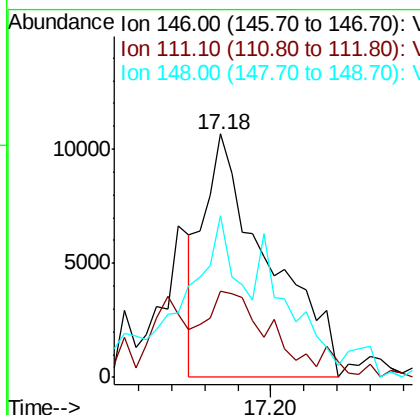
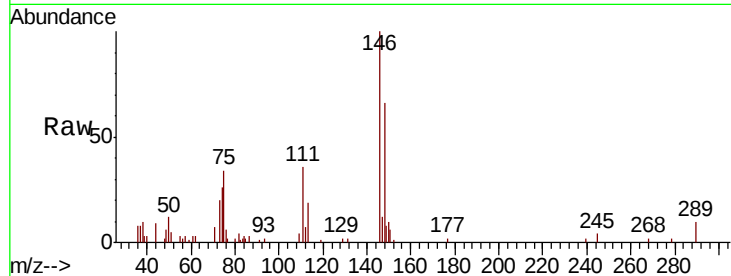




#76
 1,4-Dichlorobenzene
 Concen: 0.066 ppbv
 RT: 17.18 min Scan# 4478
 Delta R.T. -0.01 min
 Lab File: VL035237.D
 Acq: 29 Jul 2020 5:16

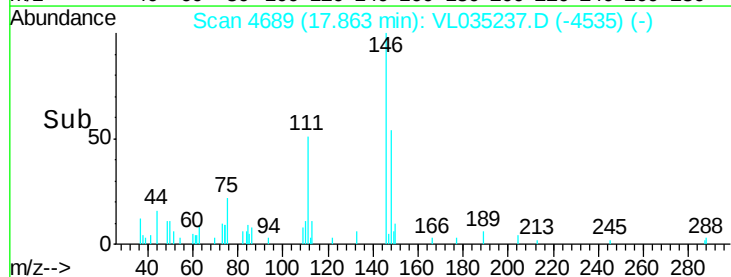
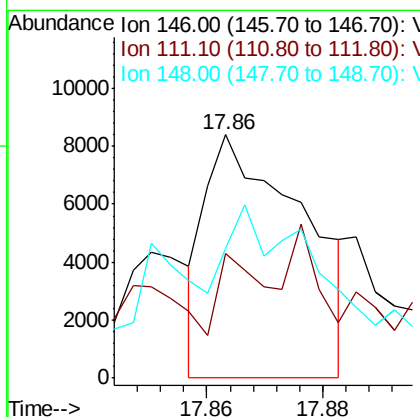
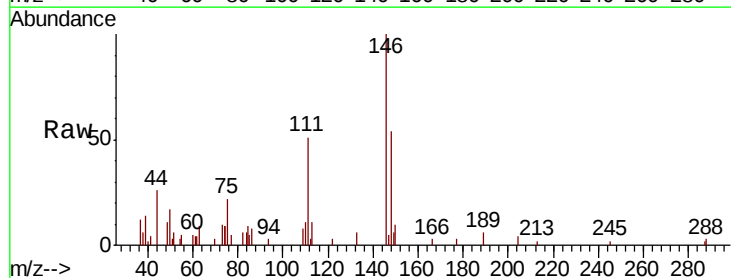
Instrument :
 MSVOA_L
 ClientSampleId :

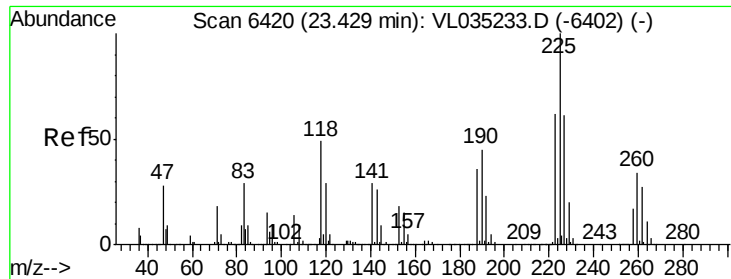
Tot Ion:146 Resp: 14360
 Ion Ratio Lower Upper
 146 100
 111 60.1 23.4 70.2
 148 101.3 32.2 96.6#



#77
 1,2-Dichlorobenzene
 Concen: 0.047 ppbv
 RT: 17.86 min Scan# 4689
 Delta R.T. -0.01 min
 Lab File: VL035237.D
 Acq: 29 Jul 2020 5:16

Tgt Ion:146 Resp: 9803
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.6 73.8#
 148 129.5 32.0 96.0#

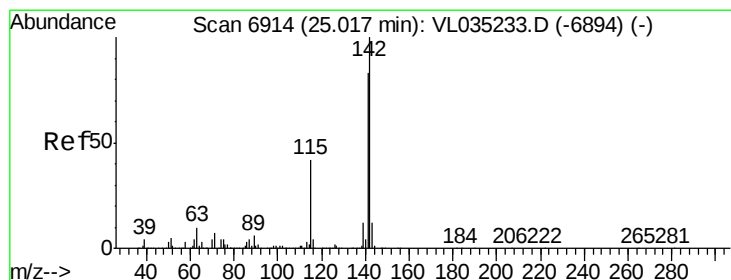
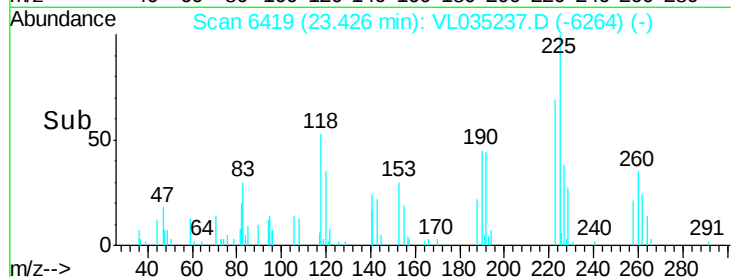
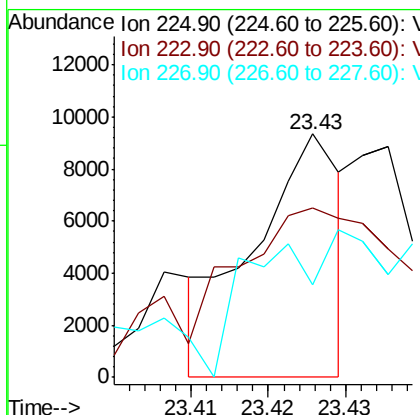
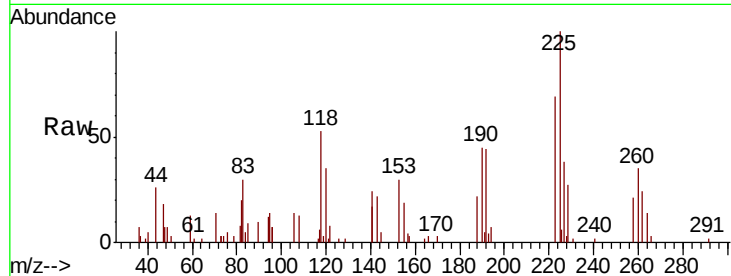




#78
Hexachloro-1,3-Butadiene
Concen: 0.045 ppbv
RT: 23.43 min Scan# 6419
Delta R.T. -0.00 min
Lab File: VL035237.D
Acq: 29 Jul 2020 5:16

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:225 Resp: 7344
Ion Ratio Lower Upper
225 100
223 209.0 51.3 76.9#
227 173.8 51.4 77.2#



#80
Naphthalene, 2-methyl-
Concen: 0.118 ppbv
RT: 25.04 min Scan# 6922
Delta R.T. 0.03 min
Lab File: VL035237.D
Acq: 29 Jul 2020 5:16

Tgt Ion:142 Resp: 6832
Ion Ratio Lower Upper
142 100
141 71.7 68.6 103.0
115 34.4 34.5 51.7#

