

Data File : VL035337.D
Acq On : 5 Aug 2020 11:14
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Aug 05 12:02:07 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080520AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 05 09:32:28 2020
QLast Update : Wed Aug 05 09:32:28 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1315051	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3327687	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3181180	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2674026	10.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.00	85	31921	0.186	ppbv #	88
3) Chlorodifluoromethane	2.94	51	19107	0.126	ppbv #	90
4) Chloromethane	3.10	50	9508	0.110	ppbv #	78
5) Vinyl Chloride	3.21	62	5148	0.061	ppbv	99
6) Bromomethane	3.44	94	5451	0.099	ppbv #	34
7) Chloroethane	3.52	64	4236	0.127	ppbv	90
8) Dichlorotetrafluoroethane	3.14	85	14979	0.072	ppbv #	41
9) Propene	2.97	41	9305	0.170	ppbv	91
11) Trichlorofluoromethane	3.91	101	30947	0.138	ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.46	101	22247	0.142	ppbv	86
13) Ethanol	3.57	45	1486	0.074	ppbv	72
14) Bromoethene	3.71	108	5245	0.081	ppbv #	25
15) Acetone	3.83	43	44980	0.237	ppbv #	77
16) 1,3-Butadiene	3.29	39	6801	0.096	ppbv #	81
17) tert-Butyl alcohol	4.28	59	7791	0.045	ppbv #	71
18) 1,1-Dichloroethene	4.26	96	5876	0.083	ppbv #	64
20) Methylene Chloride	4.31	84	15299	0.176	ppbv #	82
21) Allyl Chloride	4.38	41	5885	0.055	ppbv #	1
22) trans-1,2-Dichloroethene	4.86	96	6212	0.089	ppbv #	73
23) Vinyl Acetate	5.06	43	16502	0.088	ppbv #	92
24) 1,1-Dichloroethane	4.99	63	21148	0.121	ppbv #	95
25) Ethyl Acetate	5.67	43	17399	0.061	ppbv #	74
27) Carbon Disulfide	4.53	76	19139	0.111	ppbv #	1
28) Methyl tert-Butyl Ether	5.03	73	11236	0.058	ppbv #	53
29) Chloroform	5.74	83	14495	0.067	ppbv	89
31) cis-1,2-Dichloroethene	5.53	61	4404	0.037	ppbv #	77
32) 1,1,1-Trichloroethane	6.50	97	22945	0.109	ppbv	93
35) Carbon Tetrachloride	7.02	117	10744	0.050	ppbv	99
36) Benzene	6.88	78	11006	0.045	ppbv #	84
37) 1,2-Dichloroethane	6.30	62	18465	0.112	ppbv	97
38) Trichloroethene	7.84	130	6581	0.073	ppbv #	47
39) 1,2-Dichloropropane	7.17	63	894476	9.303	ppbv #	24
42) Bromodichloromethane	7.79	83	11812	0.052	ppbv	99
48) Dibromochloromethane	10.32	129	12767	0.070	ppbv	76
49) Bromoform	13.06	173	6749	0.043	ppbv #	24
52) Tetrachloroethene	11.23	164	4118	0.048	ppbv #	68
53) Toluene	9.82	91	7834	0.031	ppbv #	20
56) 1,1,1,2-Tetrachloroethane	12.15	131	5918	0.040	ppbv #	10
62) Isopropylbenzene	14.69	105	14830	0.031	ppbv #	49
72) 4-Ethyltoluene	15.87	105	12139	0.034	ppbv #	62
75) 1,3-Dichlorobenzene	17.03	146	9267	0.037	ppbv #	1

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080520\
Quantitation Report (Not Reviewed)

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Response via : Initial Calibration

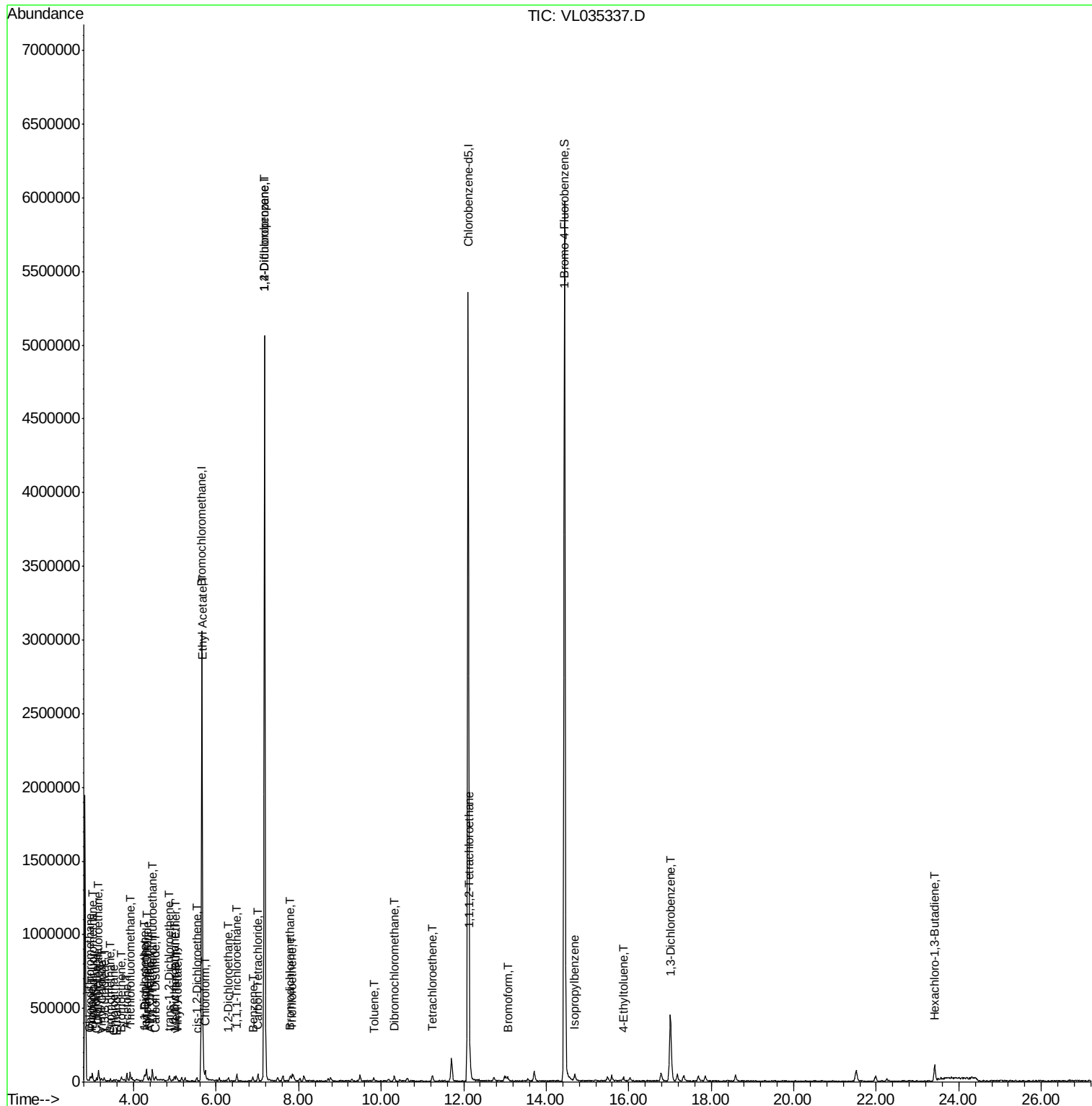
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Hexachloro-1,3-Butadiene	23.41	225	12802	0.068	ppbv	# 19

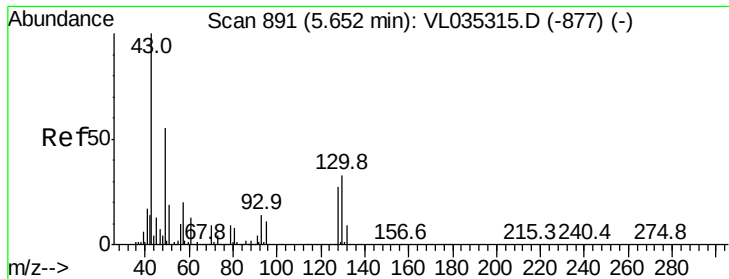
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

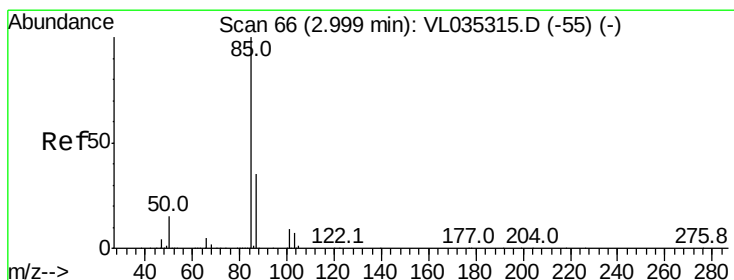
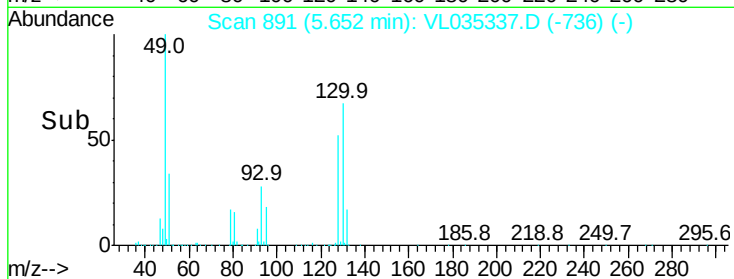
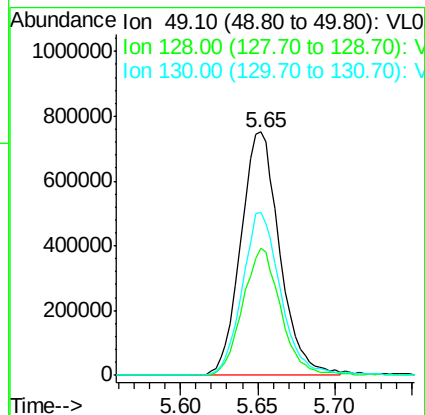
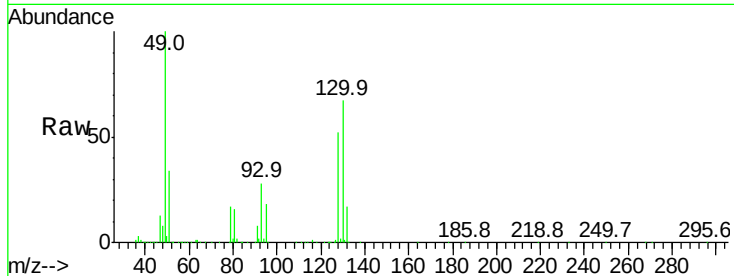
Tgt Ion: 49 Resp: 1315051

Ion Ratio Lower Upper

49 100

128 51.5 25.4 76.0

130 66.5 32.1 96.3



#2

Dichlorodifluoromethane

Concen: 0.186 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035337.D

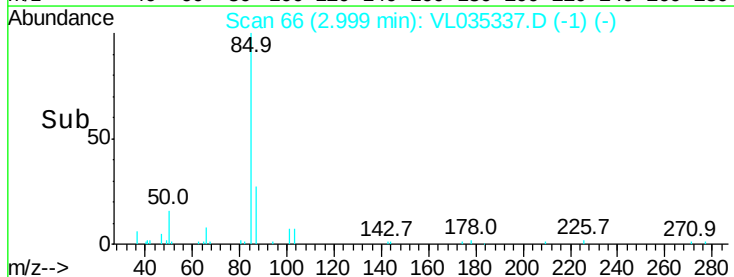
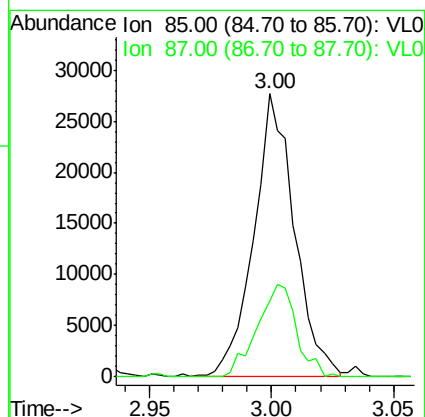
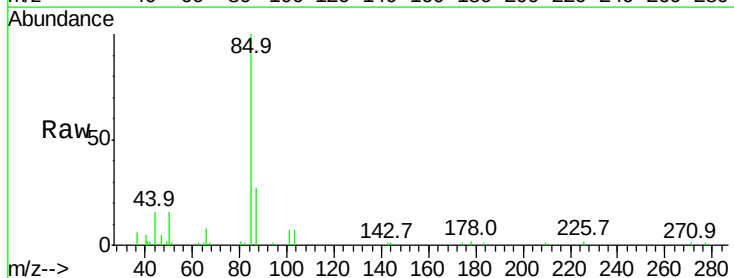
Acq: 5 Aug 2020 11:14

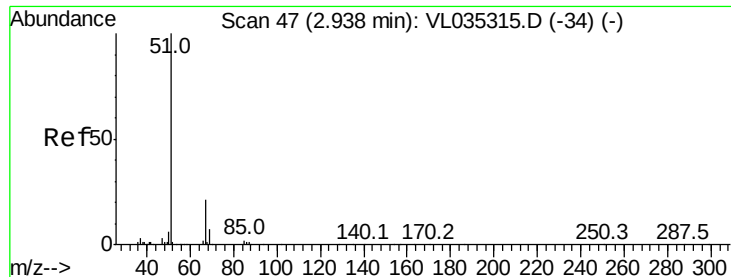
Tgt Ion: 85 Resp: 31921

Ion Ratio Lower Upper

85 100

87 26.7 26.7 40.1#

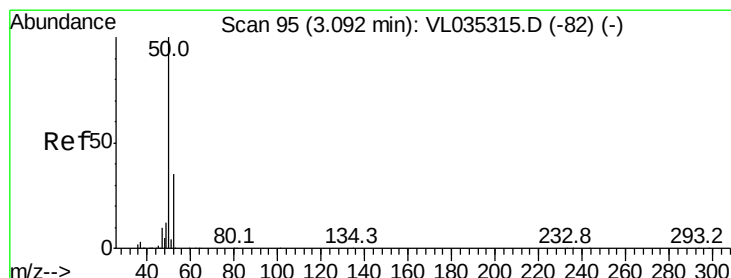
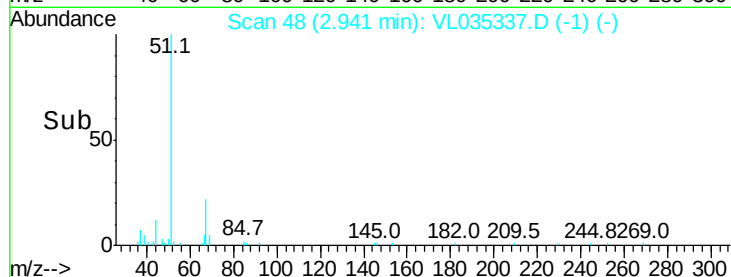
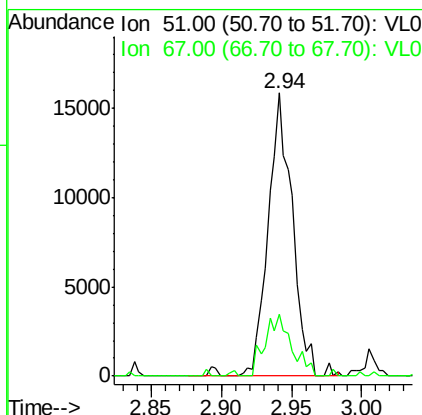
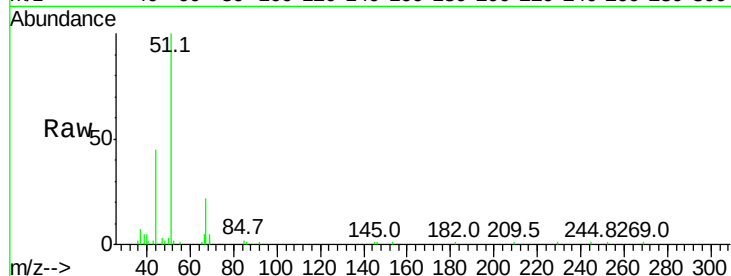




#3
Chlorodifluoromethane
Concen: 0.126 ppbv
RT: 2.94 min Scan# 48
Delta R.T. 0.00 min
Lab File: VL035337.D
Acq: 5 Aug 2020 11:14

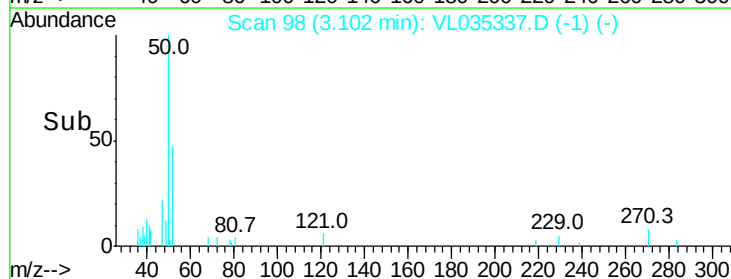
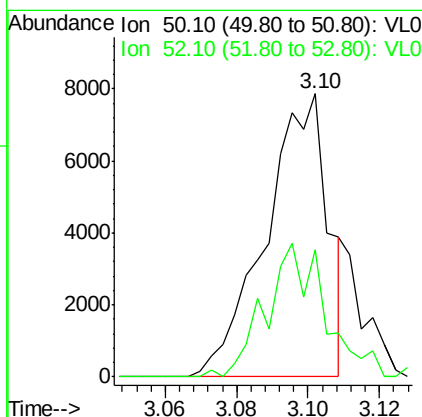
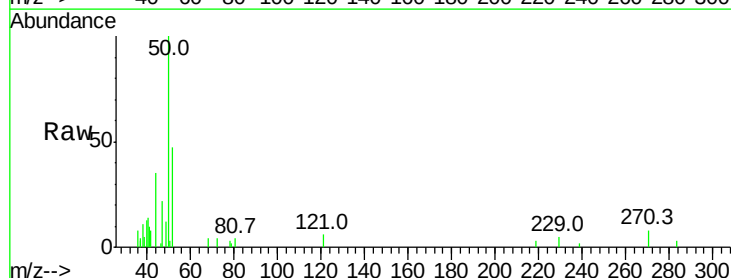
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

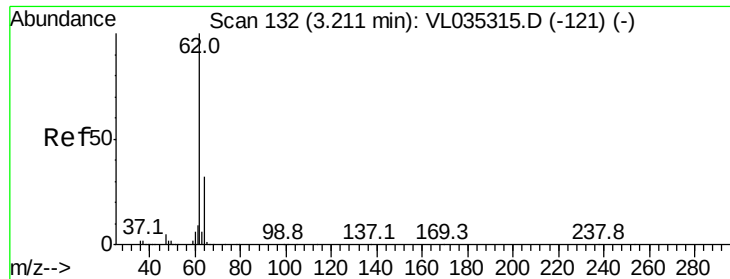
Tgt Ion: 51 Resp: 19107
Ion Ratio Lower Upper
51 100
67 25.3 16.6 25.0#



#4
Chloromethane
Concen: 0.110 ppbv
RT: 3.10 min Scan# 98
Delta R.T. 0.01 min
Lab File: VL035337.D
Acq: 5 Aug 2020 11:14

Tgt Ion: 50 Resp: 9508
Ion Ratio Lower Upper
50 100
52 45.0 26.0 39.0#





#5

Vinyl Chloride

Concen: 0.061 ppbv

RT: 3.21 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

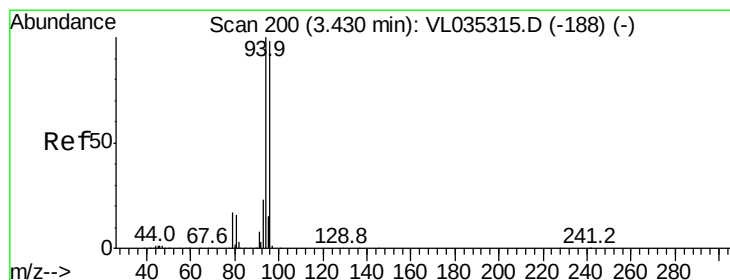
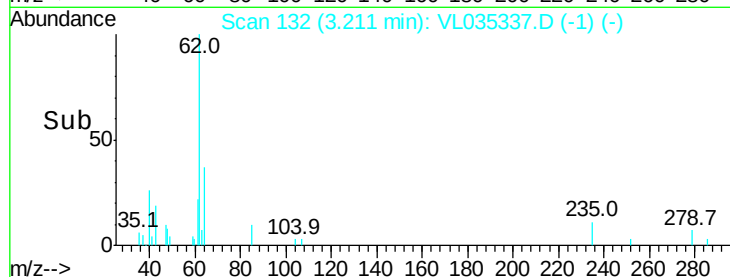
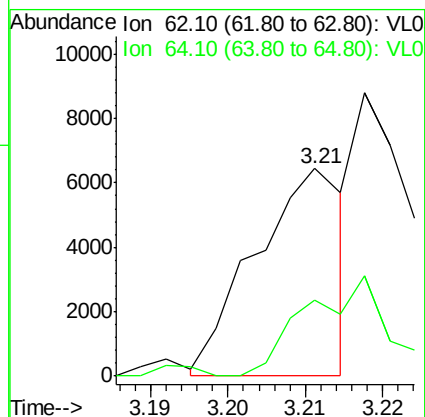
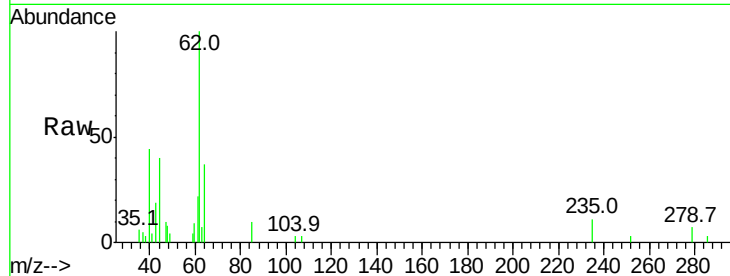
VSTDIC0.1

Tgt Ion: 62 Resp: 5148

Ion Ratio Lower Upper

62 100

64 33.0 25.8 38.6



#6

Bromomethane

Concen: 0.099 ppbv

RT: 3.44 min Scan# 202

Delta R.T. 0.00 min

Lab File: VL035337.D

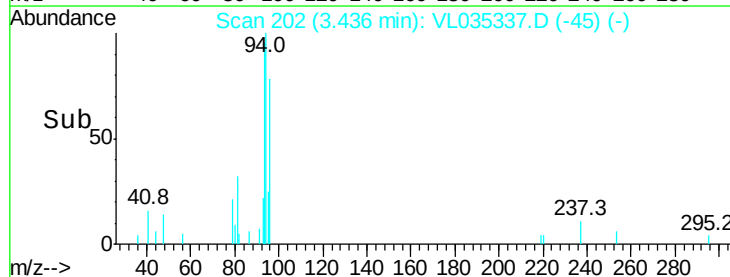
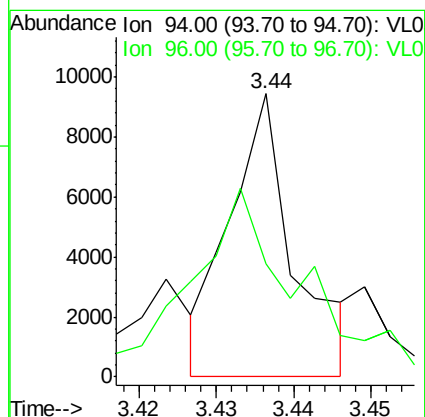
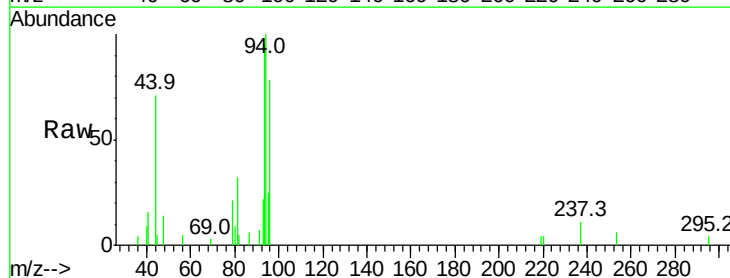
Acq: 5 Aug 2020 11:14

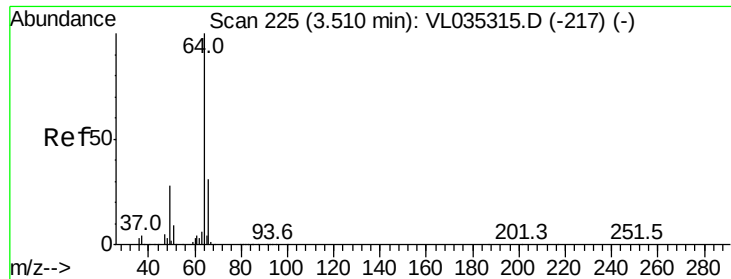
Tgt Ion: 94 Resp: 5451

Ion Ratio Lower Upper

94 100

96 32.2 77.3 115.9#





#7

Chloroethane

Concen: 0.127 ppbv

RT: 3.52 min Scan# 227

Delta R.T. -0.00 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

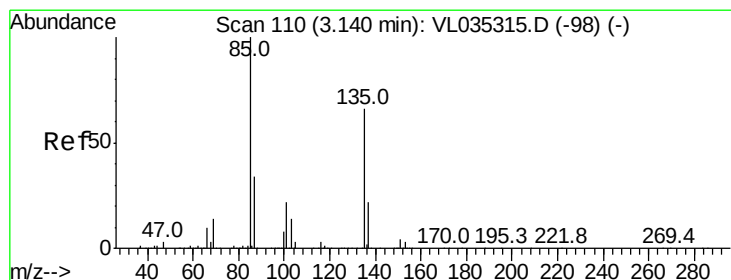
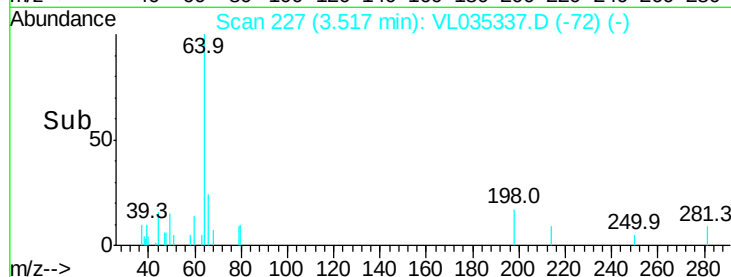
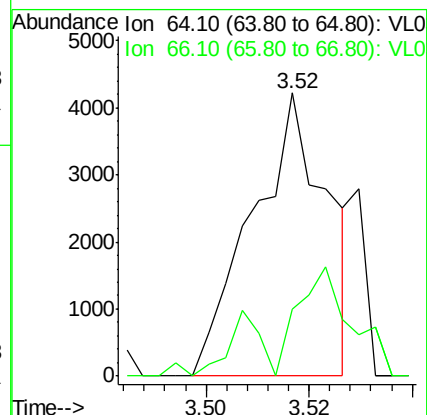
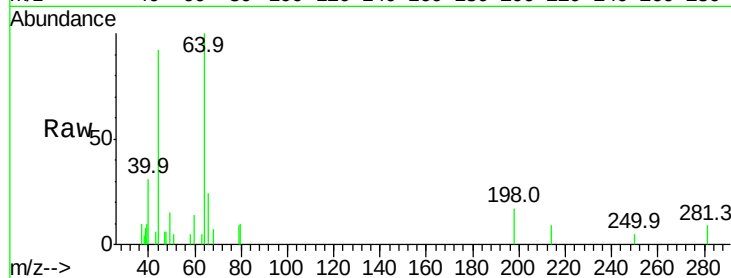
VSTDIC0.1

Tgt Ion: 64 Resp: 4236

Ion Ratio Lower Upper

64 100

66 23.7 23.0 34.6



#8

Dichlorotetrafluoroethane

Concen: 0.072 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL035337.D

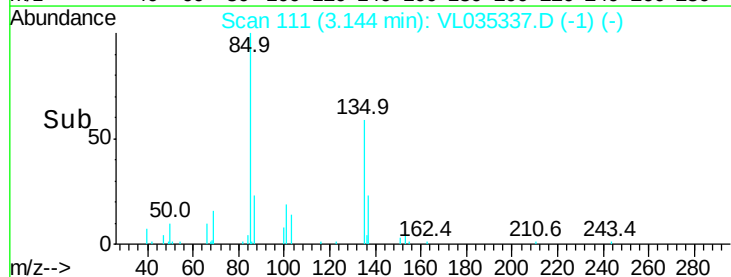
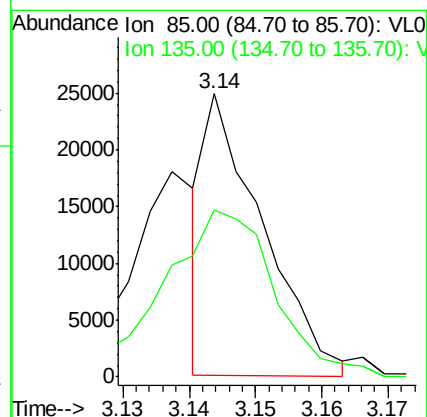
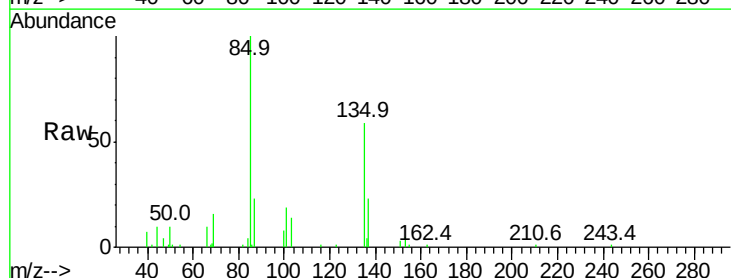
Acq: 5 Aug 2020 11:14

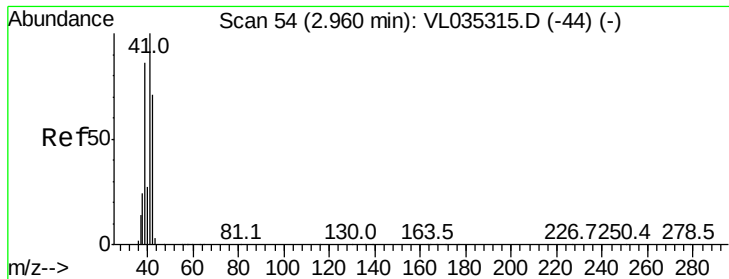
Tgt Ion: 85 Resp: 14979

Ion Ratio Lower Upper

85 100

135 115.4 54.5 81.7#





#9

Propene

Concen: 0.170 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.01 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

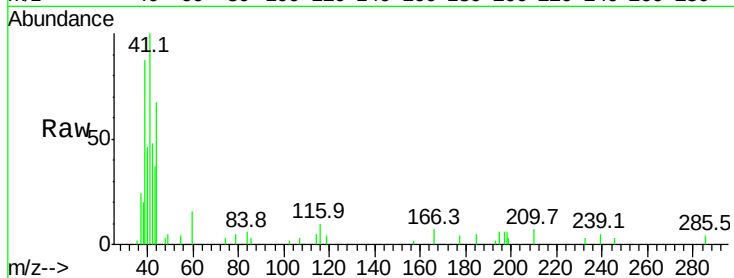
VSTDIC0.1

Tgt Ion: 41 Resp: 9305

Ion Ratio Lower Upper

41 100

42 76.1 55.3 82.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

2.97

8000

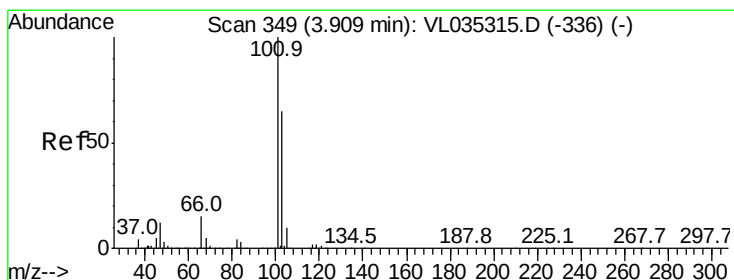
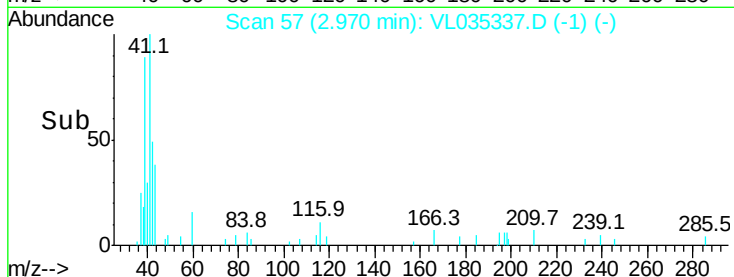
6000

4000

2000

0

Time--> 2.92 2.94 2.96 2.98



#11

Trichlorofluoromethane

Concen: 0.138 ppbv

RT: 3.91 min Scan# 350

Delta R.T. -0.00 min

Lab File: VL035337.D

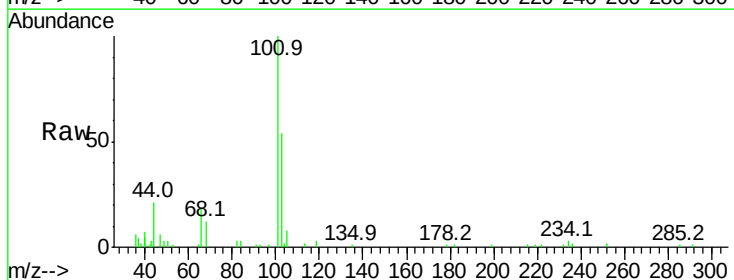
Acq: 5 Aug 2020 11:14

Tgt Ion: 101 Resp: 30947

Ion Ratio Lower Upper

101 100

103 54.3 53.8 80.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.91

25000

20000

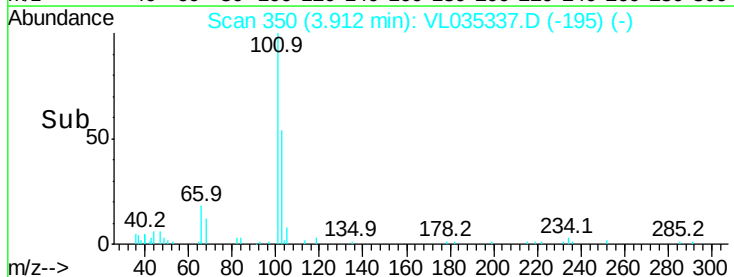
15000

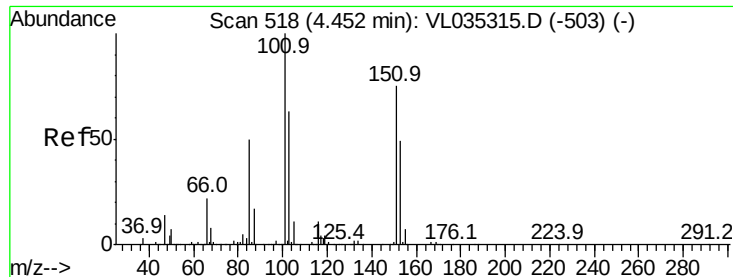
10000

5000

0

Time--> 3.90 3.95





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.142 ppbv

RT: 4.46 min Scan# 519

Delta R.T. -0.00 min

Lab File: VL035337.D

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ClientSampleId :

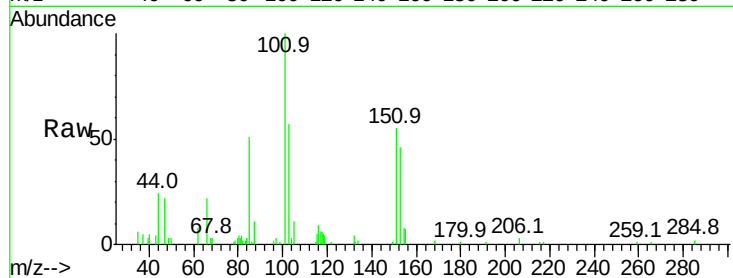
VSTDIC0.1

Tgt Ion:101 Resp: 22247

Ion Ratio Lower Upper

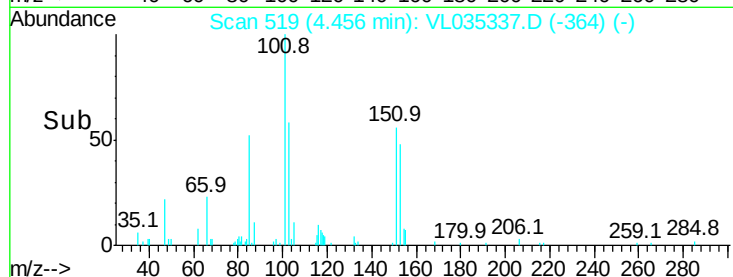
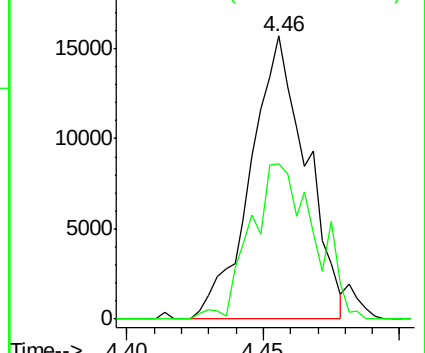
101 100

151 62.8 59.5 89.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.074 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.00 min

Lab File: VL035337.D

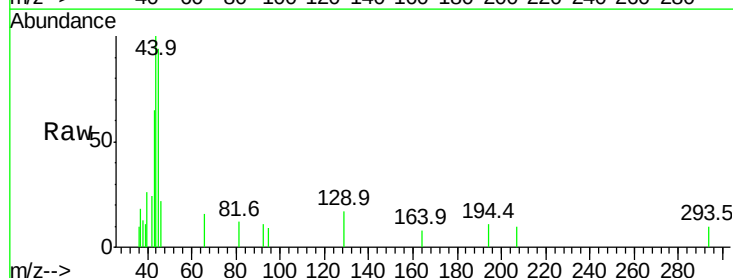
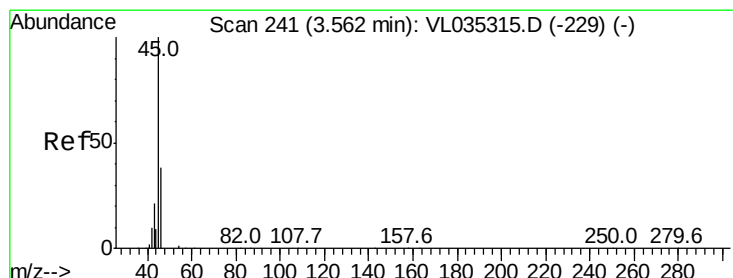
Acq: 5 Aug 2020 11:14

Tgt Ion: 45 Resp: 1486

Ion Ratio Lower Upper

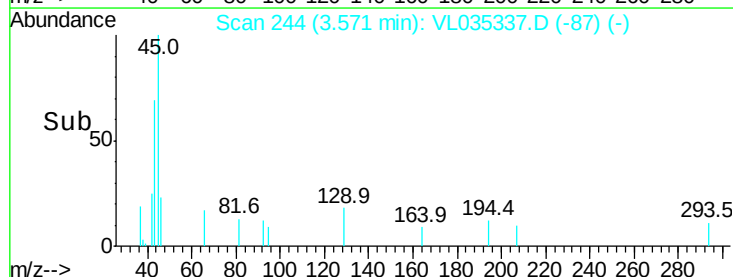
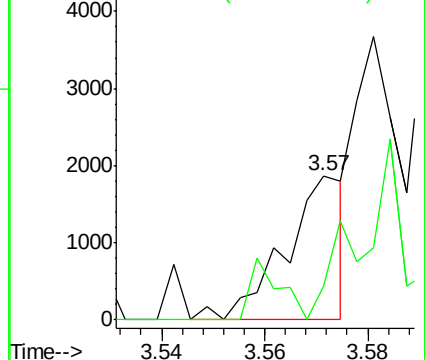
45 100

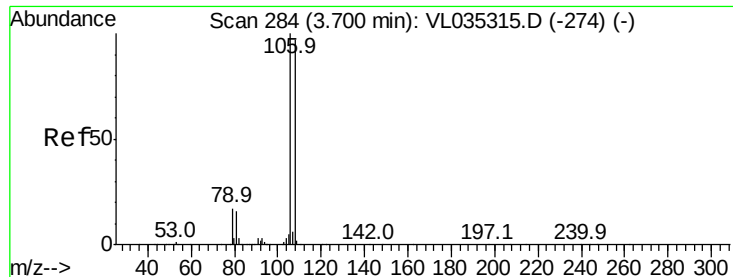
46 21.0 15.2 61.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#14

Bromoethene

Concen: 0.081 ppbv

RT: 3.71 min Scan# 286

Delta R.T. 0.00 min

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VSTDIC0.1

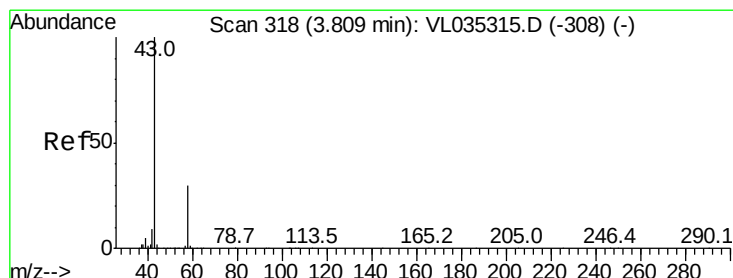
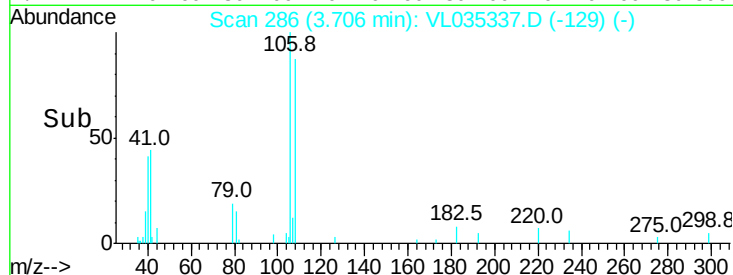
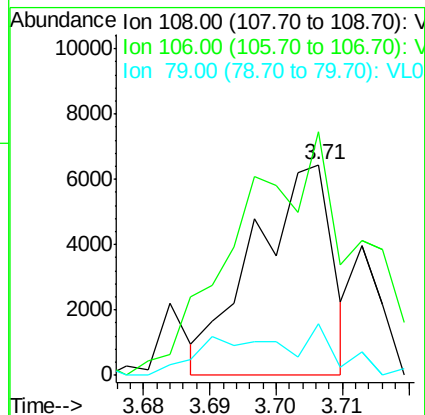
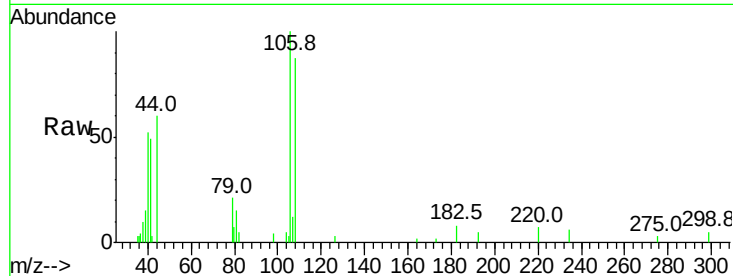
Tgt Ion:108 Resp: 5245

Ion Ratio Lower Upper

108 100

106 193.2 85.0 127.6#

79 30.4 15.0 22.6#



#15

Acetone

Concen: 0.237 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.01 min

Lab File: VL035337.D

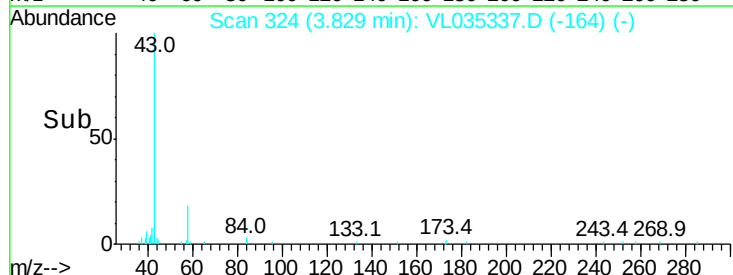
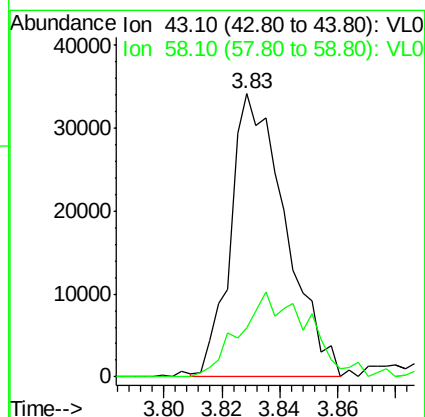
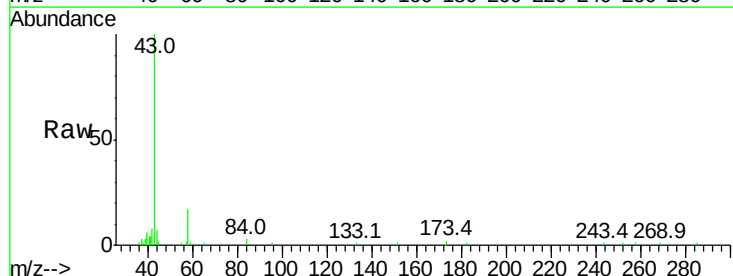
Acq: 5 Aug 2020 11:14

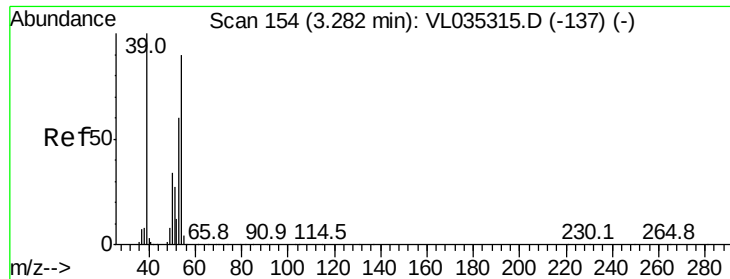
Tgt Ion: 43 Resp: 44980

Ion Ratio Lower Upper

43 100

58 37.9 21.0 31.4#

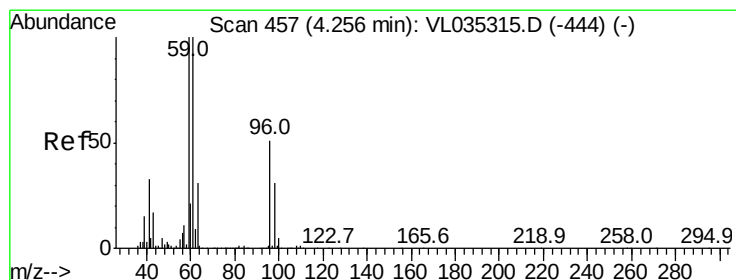
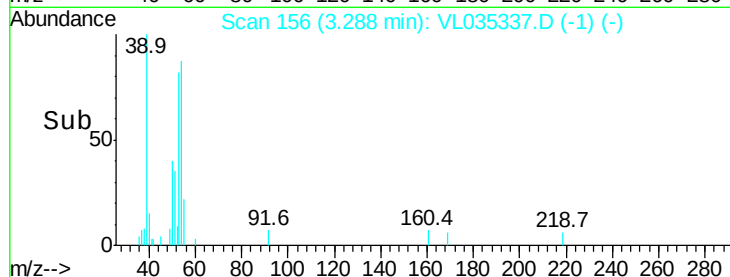
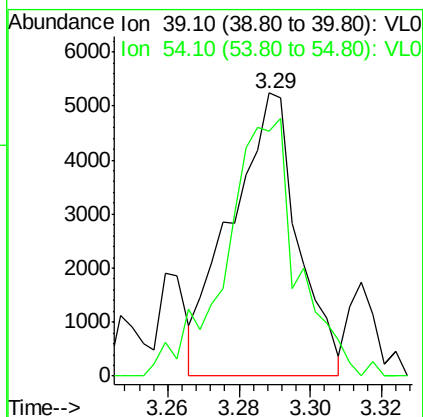
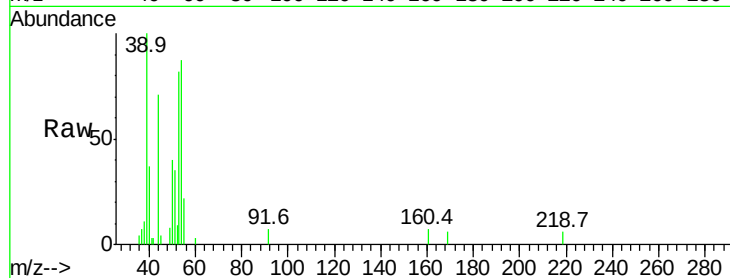




#16
 1,3-Butadiene
 Concen: 0.096 ppbv
 RT: 3.29 min Scan# 156
 Delta R.T. 0.00 min
 Lab File: VL035337.D
 Acq: 5 Aug 2020 11:14

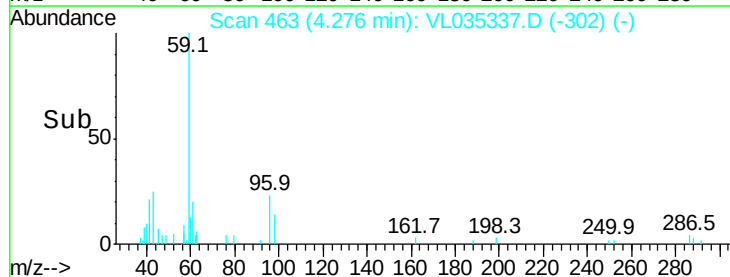
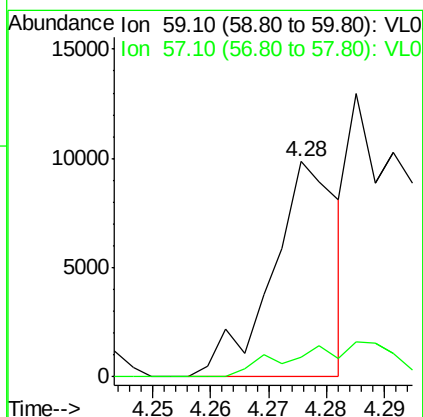
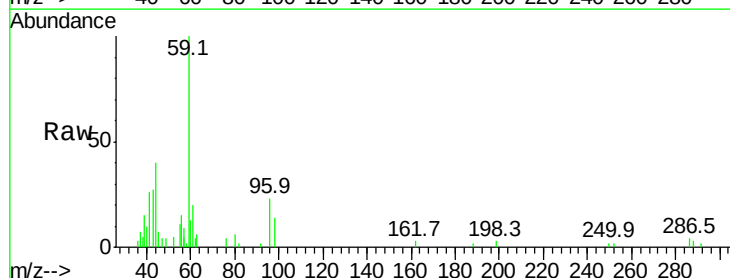
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

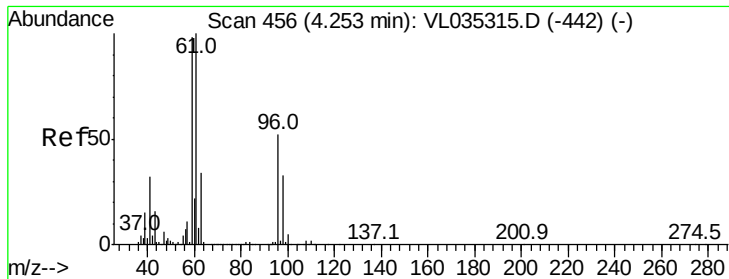
Tgt Ion: 39 Resp: 6801
 Ion Ratio Lower Upper
 39 100
 54 97.3 64.4 96.6#



#17
 tert-Butyl alcohol
 Concen: 0.045 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. 0.02 min
 Lab File: VL035337.D
 Acq: 5 Aug 2020 11:14

Tgt Ion: 59 Resp: 7791
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#

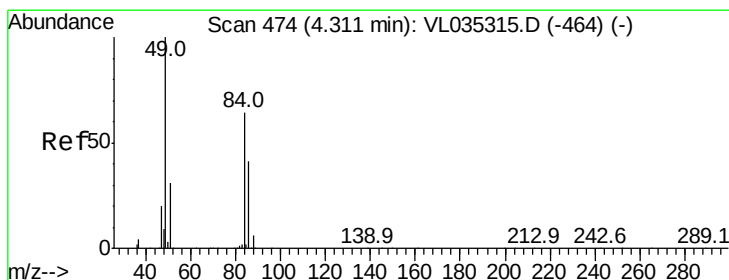
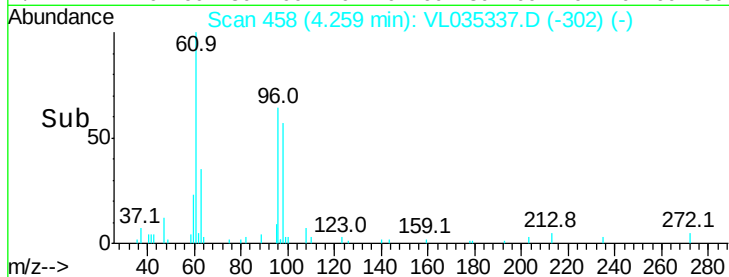
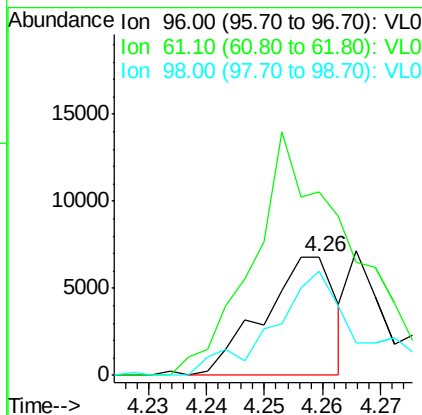
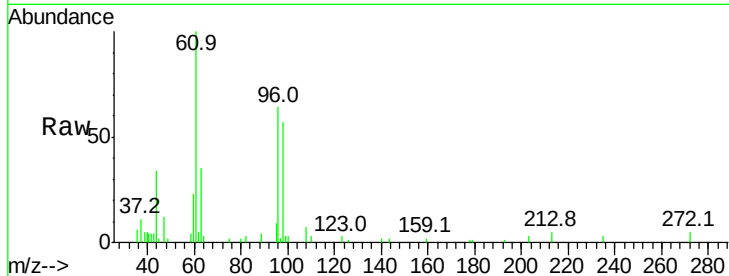




#18
 1,1-Dichloroethene
 Concen: 0.083 ppbv
 RT: 4.26 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL035337.D
 Acq: 5 Aug 2020 11:14

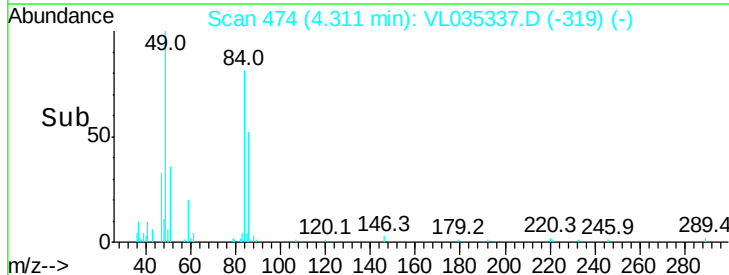
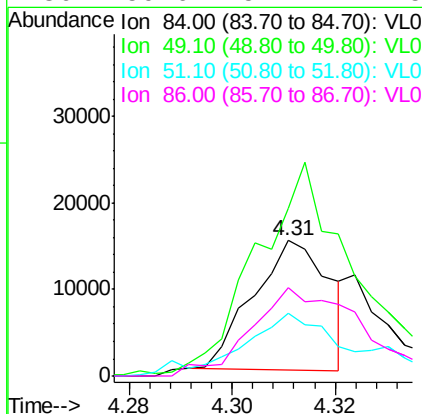
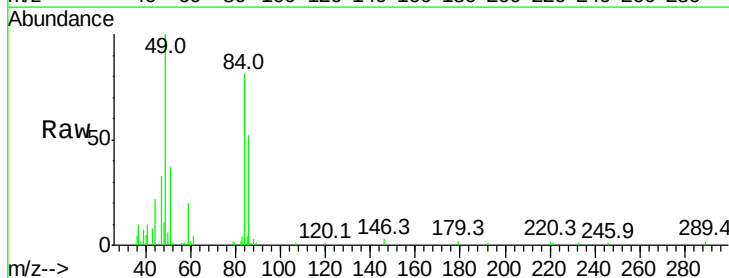
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

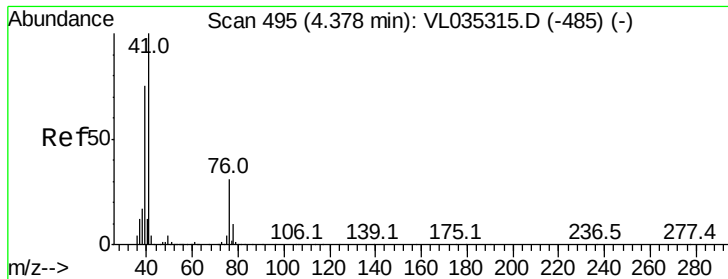
Tgt Ion: 96 Resp: 5876
 Ion Ratio Lower Upper
 96 100
 61 139.7 161.4 242.2#
 98 88.2 56.0 84.0#



#20
 Methylene Chloride
 Concen: 0.176 ppbv
 RT: 4.31 min Scan# 474
 Delta R.T. -0.00 min
 Lab File: VL035337.D
 Acq: 5 Aug 2020 11:14

Tgt Ion: 84 Resp: 15299
 Ion Ratio Lower Upper
 84 100
 49 121.6 122.8 184.2#
 51 42.7 40.1 60.1
 86 59.6 51.7 77.5

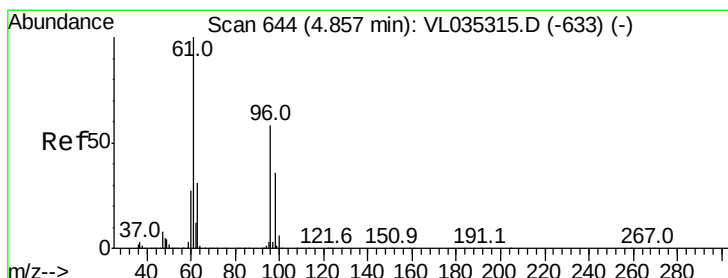
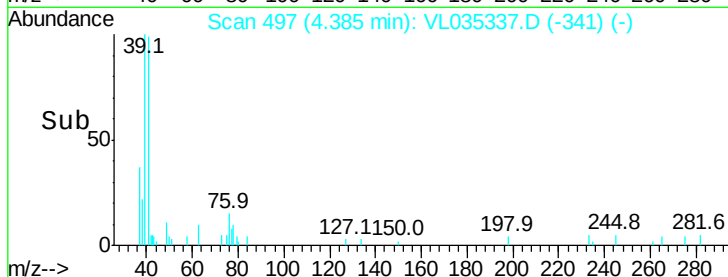
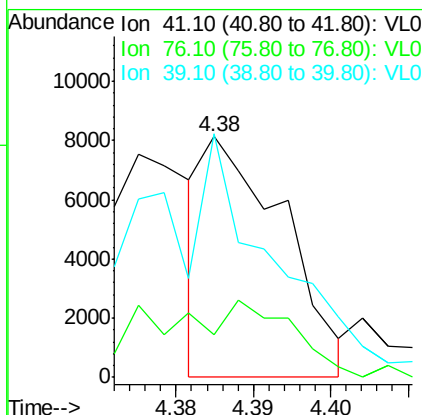
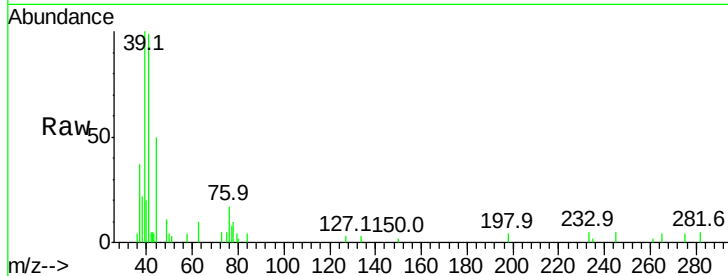




#21
 Allyl Chloride
 Concen: 0.055 ppbv
 RT: 4.38 min Scan# 497
 Delta R.T. 0.00 min
 Lab File: VL035337.D
 Acq: 5 Aug 2020 11:14

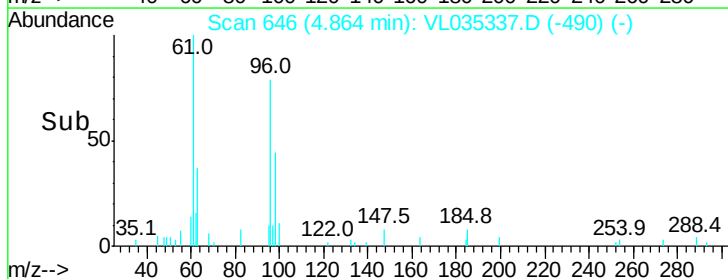
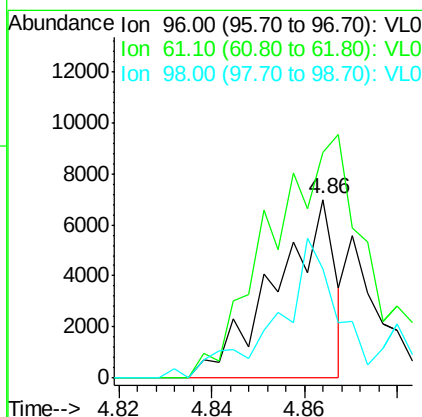
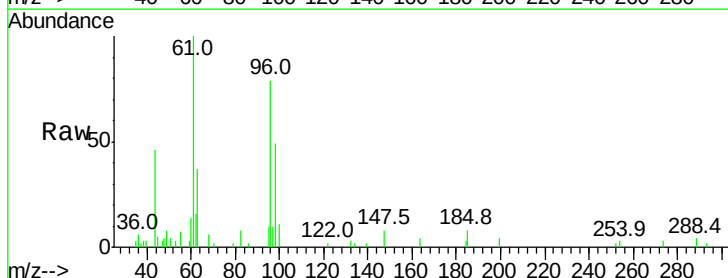
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

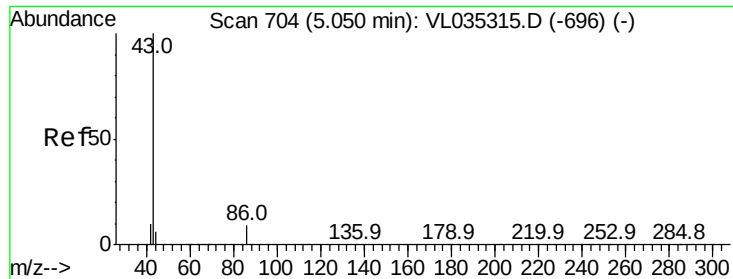
Tgt Ion: 41 Resp: 5885
 Ion Ratio Lower Upper
 41 100
 76 65.8 23.8 35.6#
 39 181.9 65.0 97.6#



#22
 trans-1,2-Dichloroethene
 Concen: 0.089 ppbv
 RT: 4.86 min Scan# 646
 Delta R.T. 0.00 min
 Lab File: VL035337.D
 Acq: 5 Aug 2020 11:14

Tgt Ion: 96 Resp: 6212
 Ion Ratio Lower Upper
 96 100
 61 126.3 138.5 207.7#
 98 61.5 54.3 81.5





#23

Vinyl Acetate

Concen: 0.088 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.00 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 16502

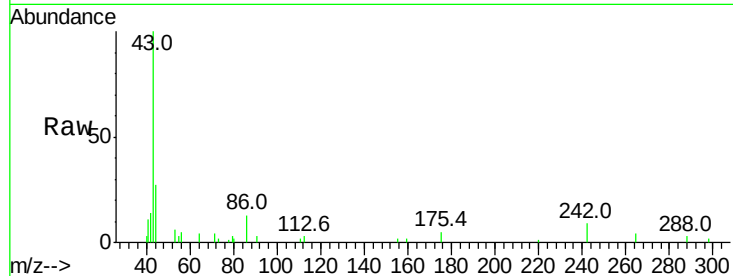
Ion Ratio Lower Upper

43 100

86 11.4 6.9 10.3#

42 11.9 8.8 13.2

44 12.5 5.0 7.6#

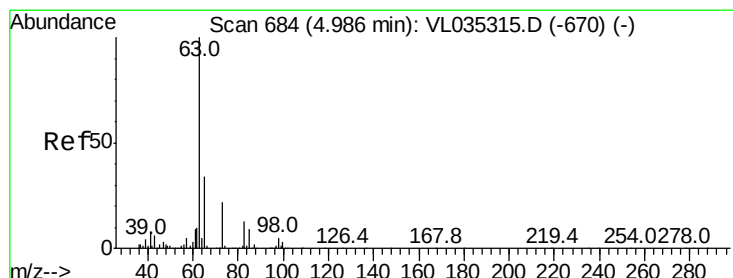
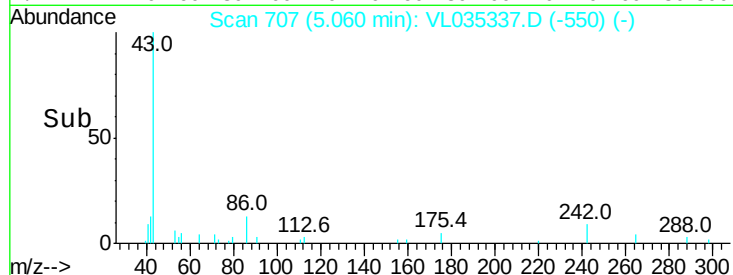
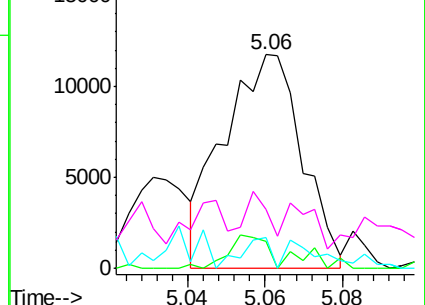


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.121 ppbv

RT: 4.99 min Scan# 685

Delta R.T. -0.00 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

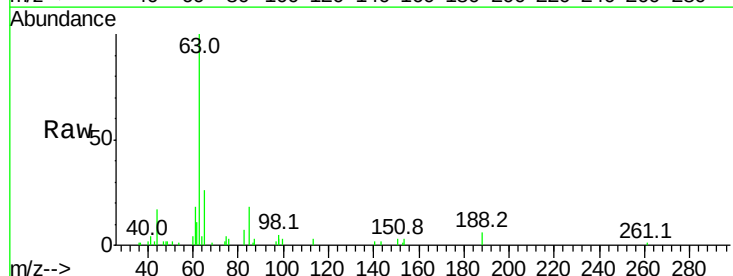
Tgt Ion: 63 Resp: 21148

Ion Ratio Lower Upper

63 100

98 7.6 2.5 7.5#

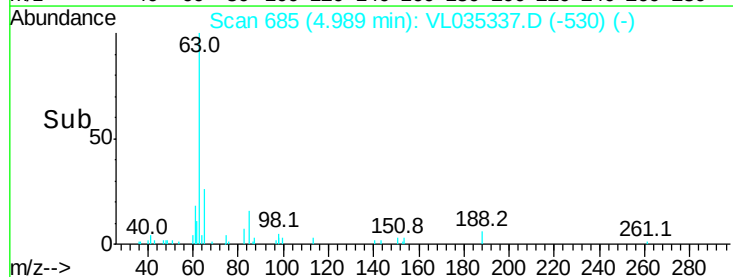
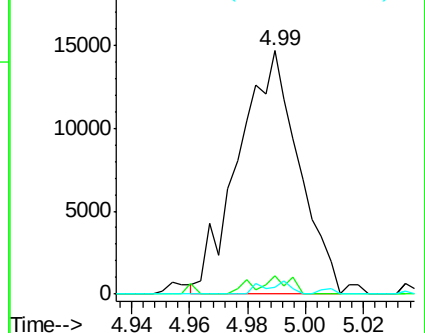
100 2.8 1.4 4.2

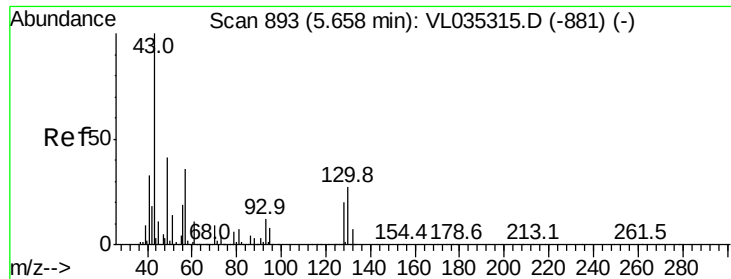


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.061 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.01 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 17399

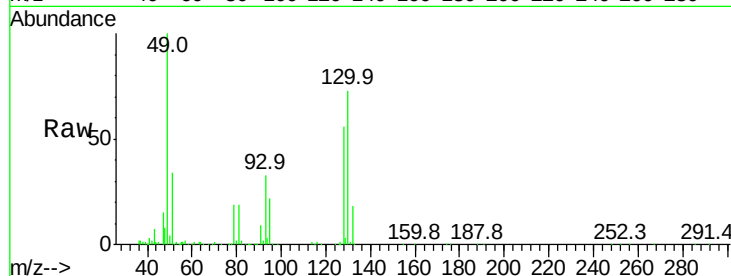
Ion Ratio Lower Upper

43 100

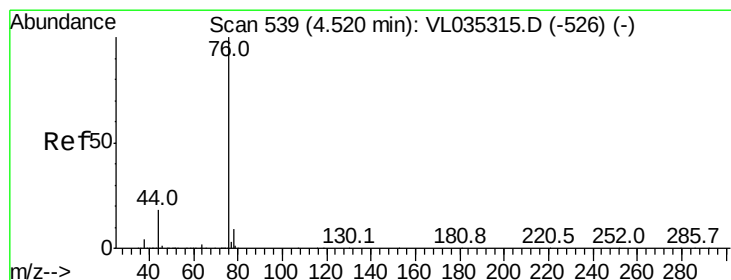
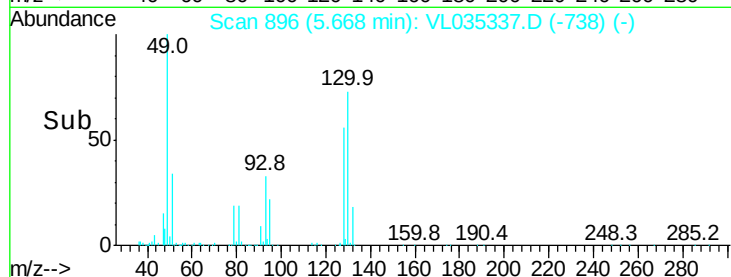
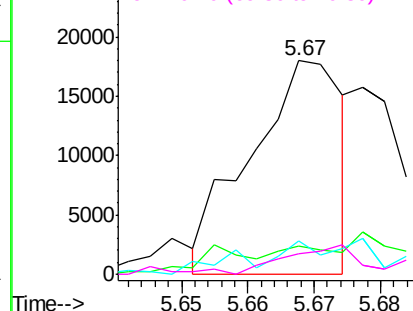
45 0.0 8.5 12.7#

61 0.0 8.1 12.1#

70 0.0 6.5 9.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#27

Carbon Disulfide

Concen: 0.111 ppbv

RT: 4.53 min Scan# 541

Delta R.T. 0.00 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

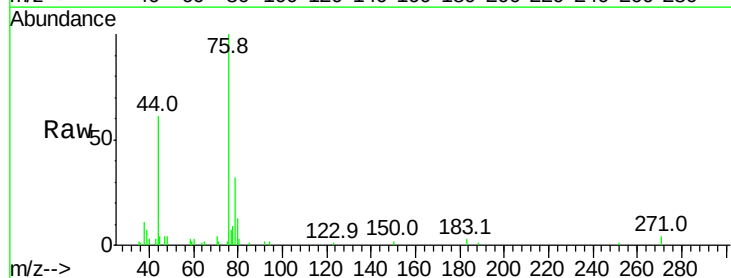
Tgt Ion: 76 Resp: 19139

Ion Ratio Lower Upper

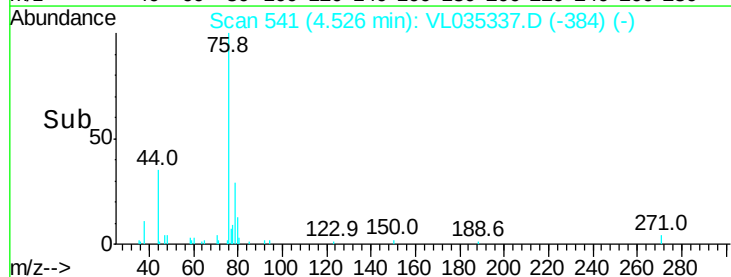
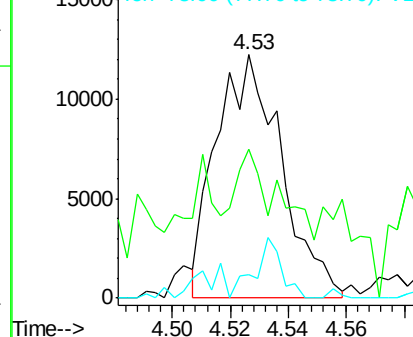
76 100

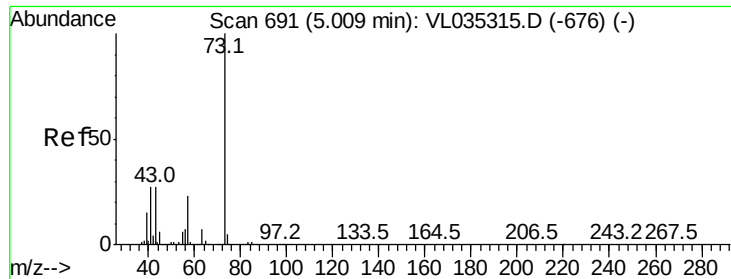
44 119.7 15.4 23.2#

78 16.0 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: 0.058 ppbv

RT: 5.03 min Scan# 697

Delta R.T. 0.02 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

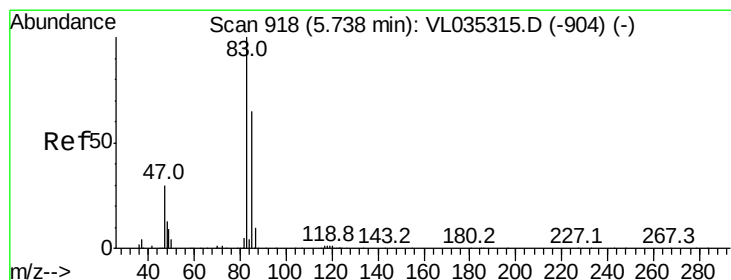
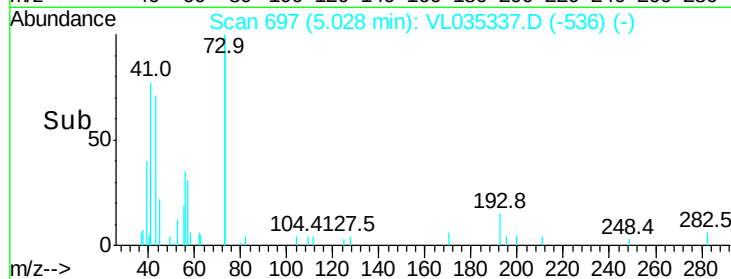
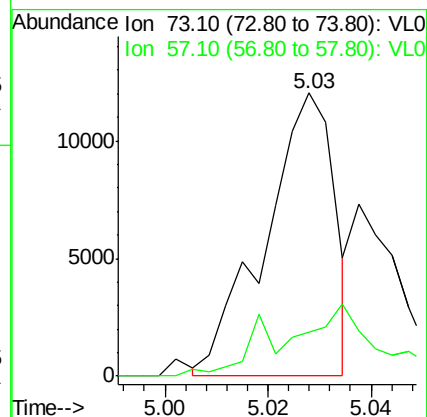
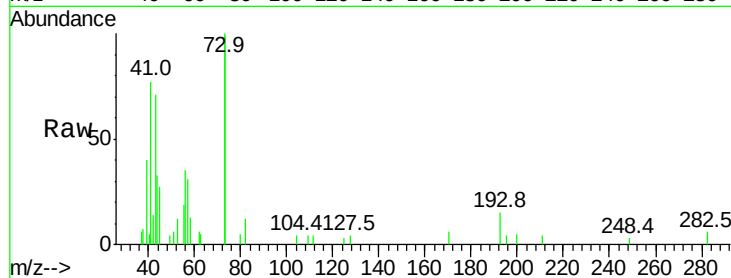
VSTDIC0.1

Tgt Ion: 73 Resp: 11236

Ion Ratio Lower Upper

73 100

57 0.0 17.9 26.9#



#29

Chloroform

Concen: 0.067 ppbv

RT: 5.74 min Scan# 918

Delta R.T. -0.01 min

Lab File: VL035337.D

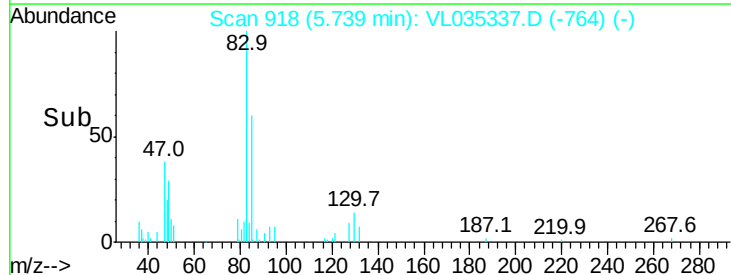
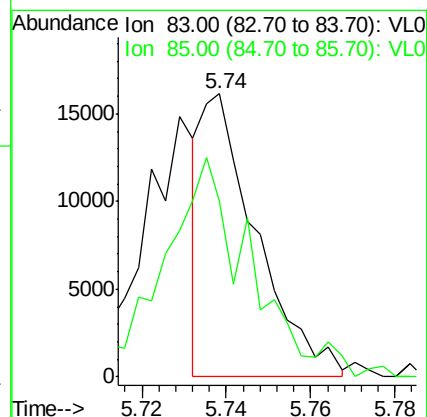
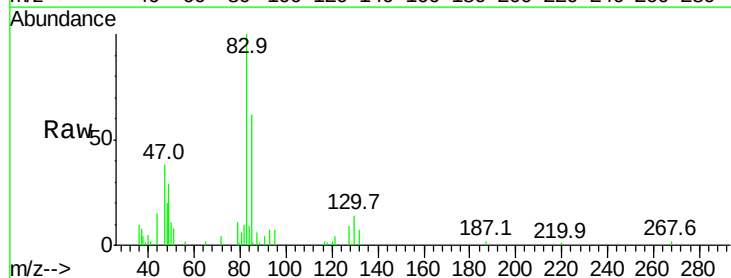
Acq: 5 Aug 2020 11:14

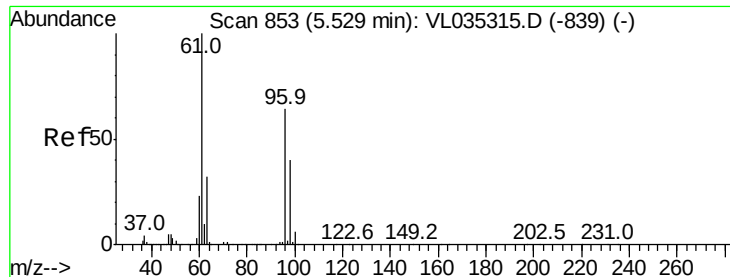
Tgt Ion: 83 Resp: 14495

Ion Ratio Lower Upper

83 100

85 57.7 52.9 79.3





#31

cis-1,2-Dichloroethene

Concen: 0.037 ppbv

RT: 5.53 min Scan# 854

Delta R.T. -0.00 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

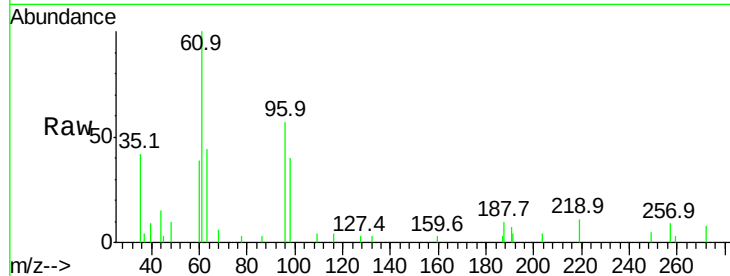
Tgt Ion: 61 Resp: 4404

Ion Ratio Lower Upper

61 100

96 43.8 53.6 80.4#

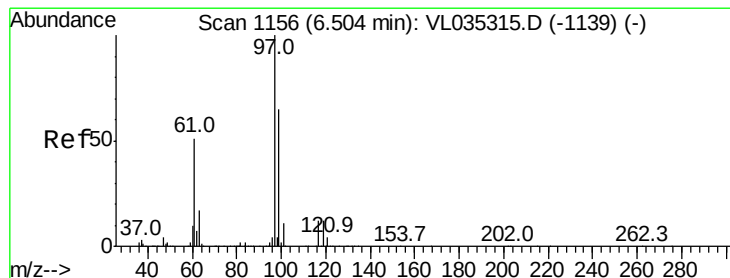
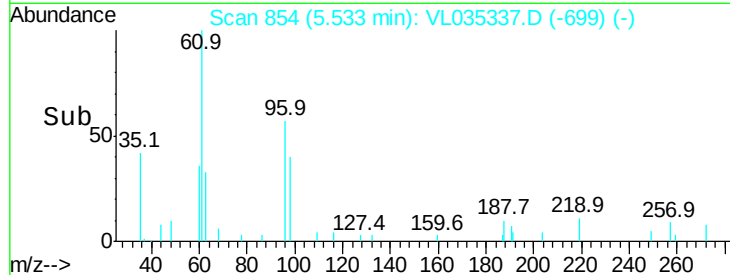
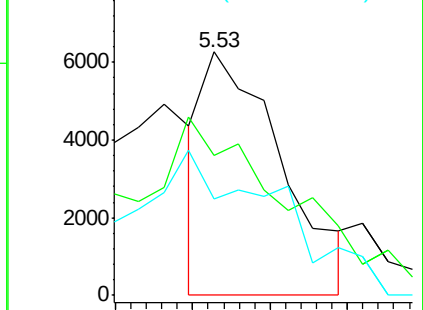
98 30.5 31.0 46.4#



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: 0.109 ppbv

RT: 6.50 min Scan# 1155

Delta R.T. -0.01 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

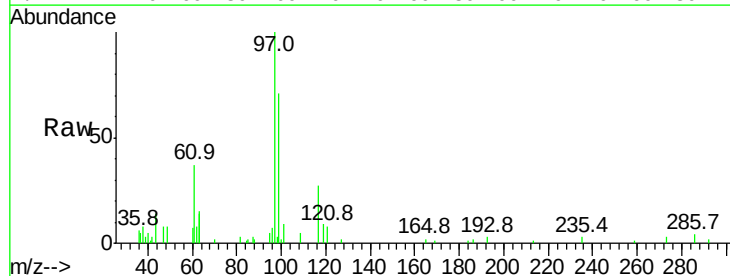
Tgt Ion: 97 Resp: 22945

Ion Ratio Lower Upper

97 100

99 69.4 52.2 78.4

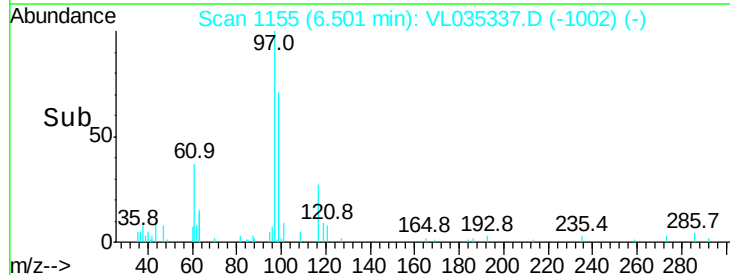
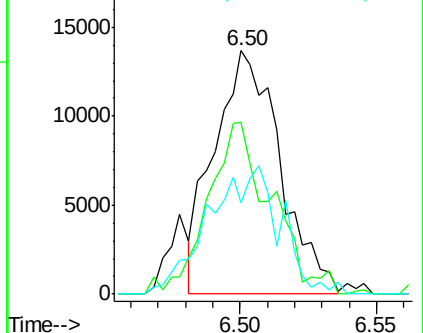
61 57.2 40.9 61.3

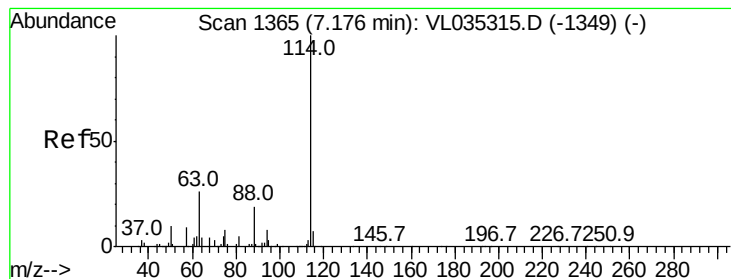


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

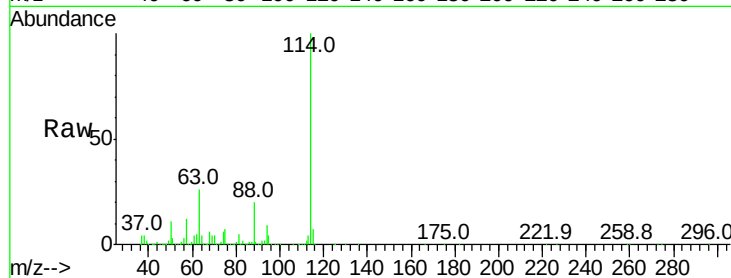
Tgt Ion:114 Resp: 3327687

Ion Ratio Lower Upper

114 100

63 27.0 21.3 31.9

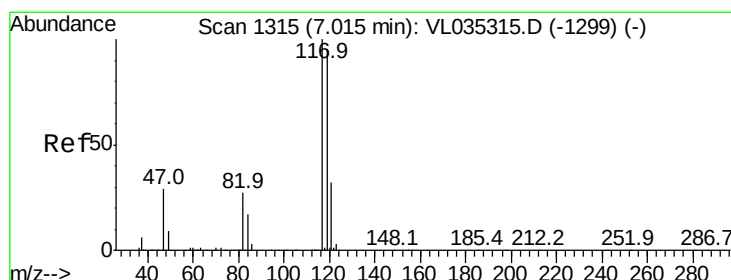
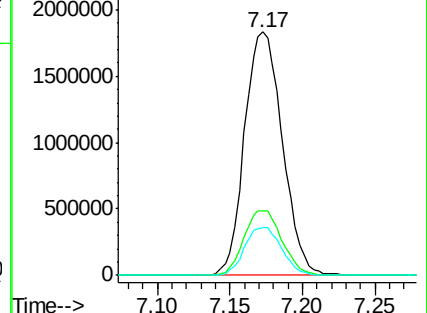
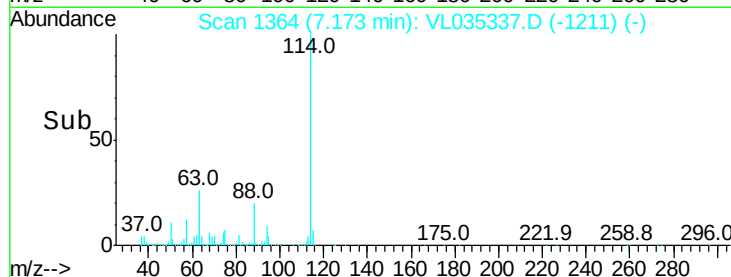
88 19.4 15.3 22.9



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: 0.050 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

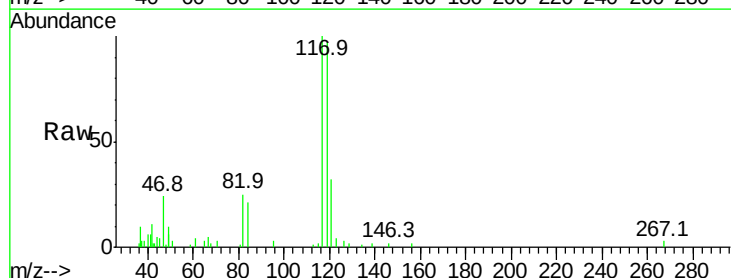
Tgt Ion:117 Resp: 10744

Ion Ratio Lower Upper

117 100

119 97.0 77.0 115.6

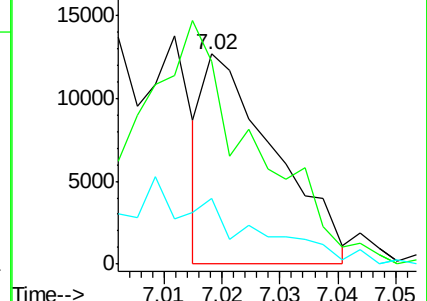
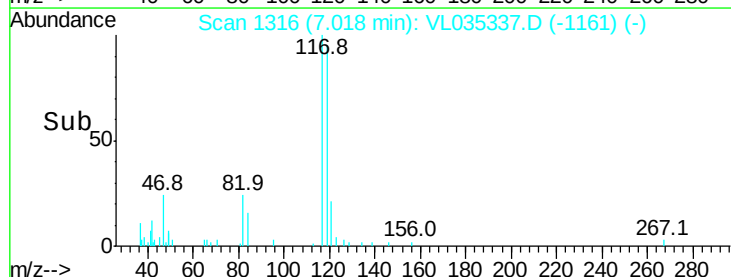
121 32.5 26.0 39.0

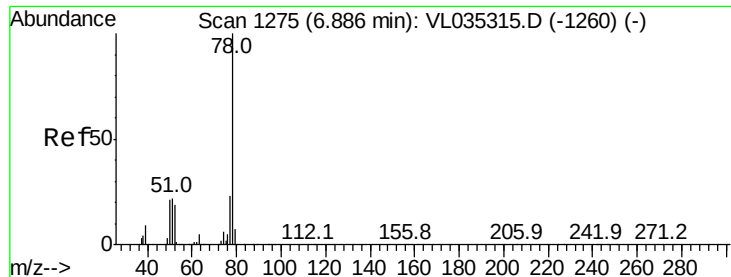


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.045 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

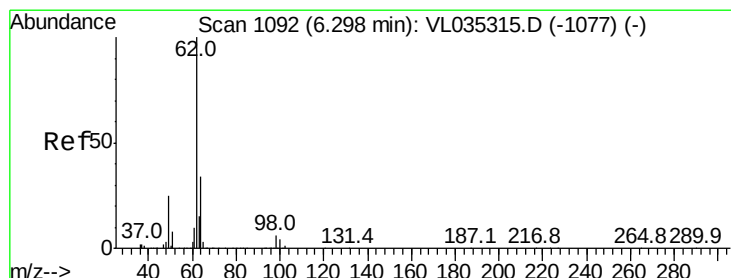
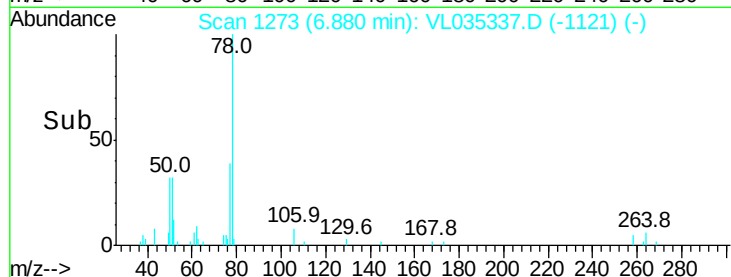
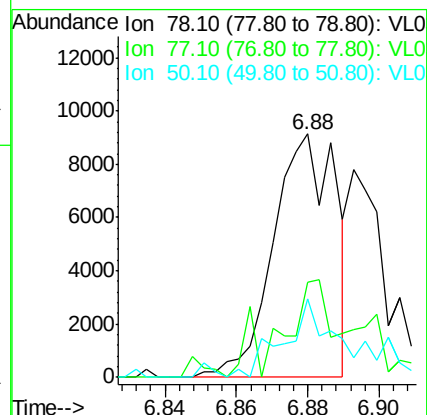
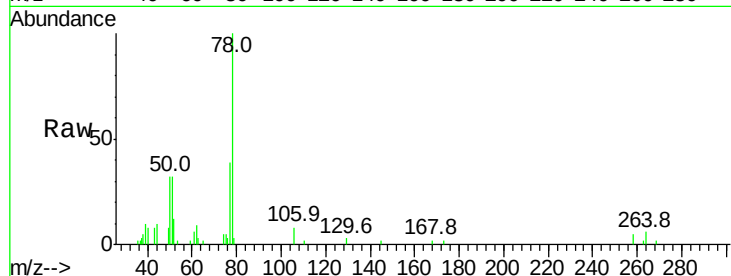
Tgt Ion: 78 Resp: 11006

Ion Ratio Lower Upper

78 100

77 29.2 19.3 28.9#

50 31.2 16.3 24.5#



#37

1,2-Dichloroethane

Concen: 0.112 ppbv

RT: 6.30 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VL035337.D

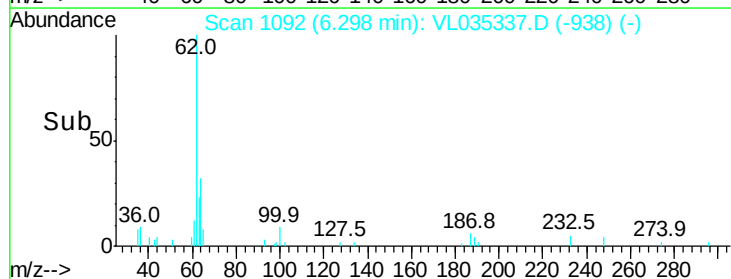
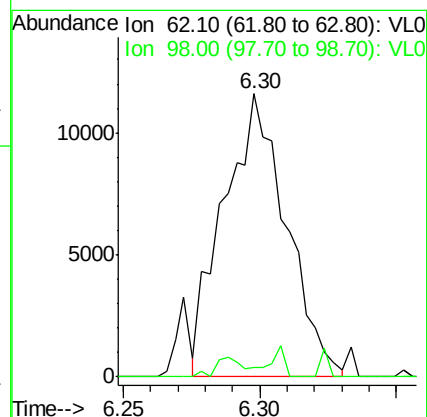
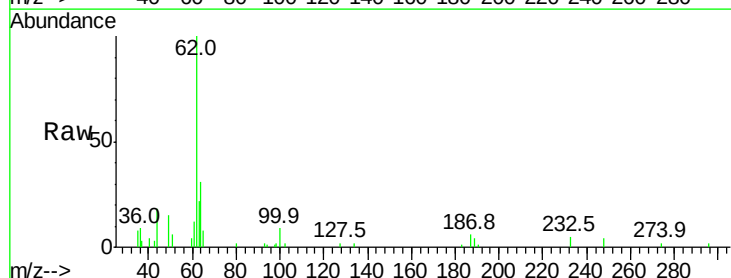
Acq: 5 Aug 2020 11:14

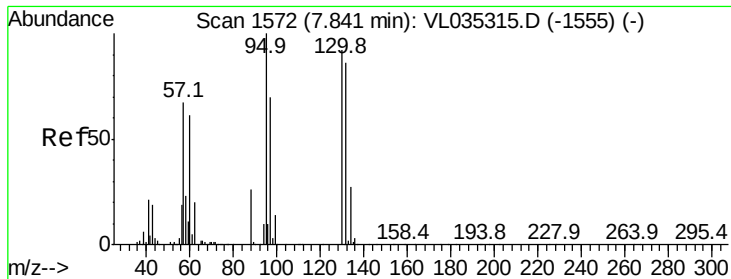
Tgt Ion: 62 Resp: 18465

Ion Ratio Lower Upper

62 100

98 6.8 4.6 7.0





#38

Trichloroethene

Concen: 0.073 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:130 Resp: 6581

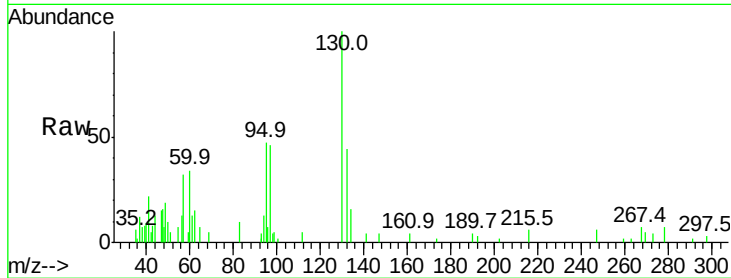
Ion Ratio Lower Upper

130 100

95 43.9 93.4 140.2#

132 42.0 76.1 114.1#

97 48.3 59.4 89.2#

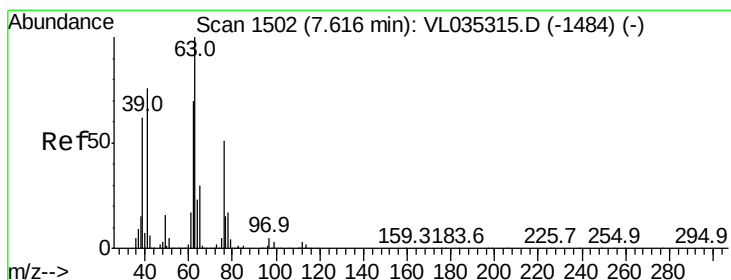
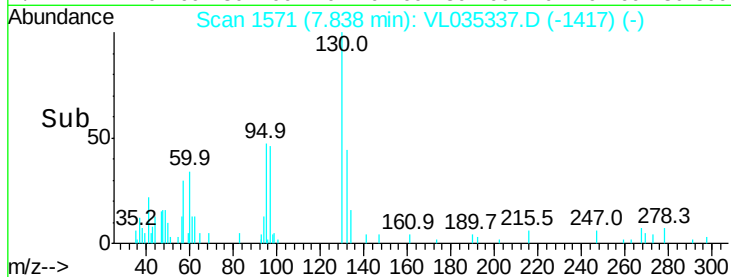
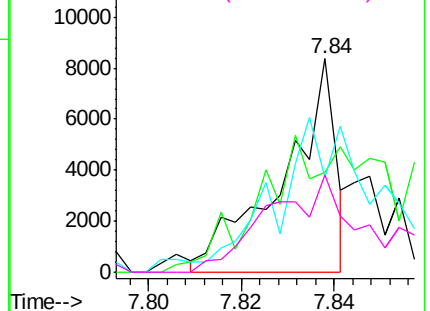


Abundance Ion 130.00 (129.70 to 130.70): V

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: 9.303 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.45 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

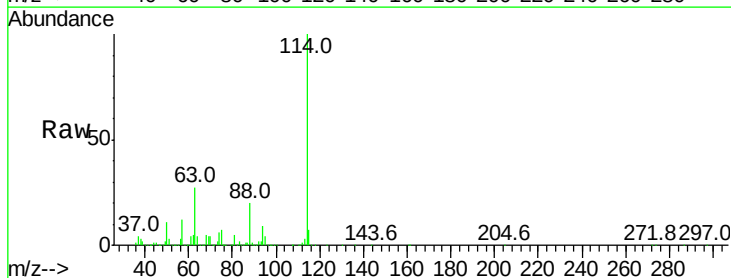
Tgt Ion: 63 Resp: 894476

Ion Ratio Lower Upper

63 100

41 0.1 64.4 96.6#

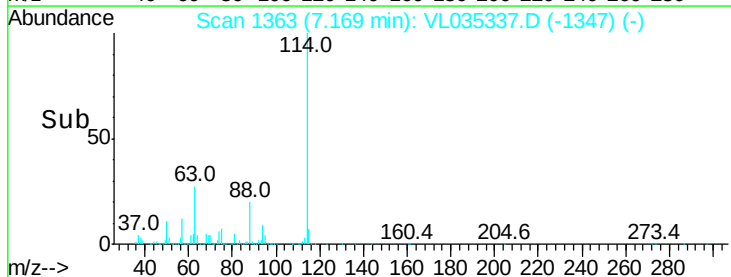
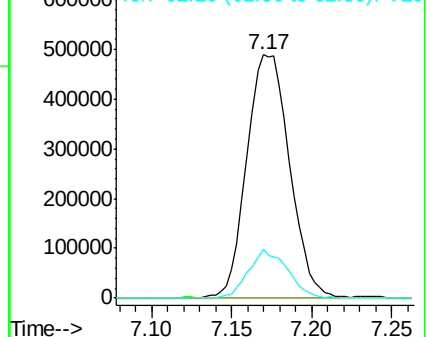
62 20.0 52.6 78.8#

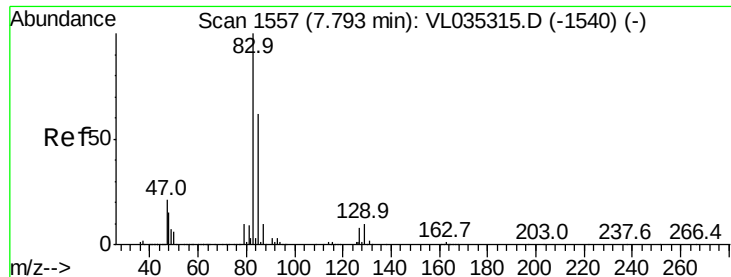


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.052 ppbv

RT: 7.79 min Scan# 1555

Delta R.T. -0.01 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

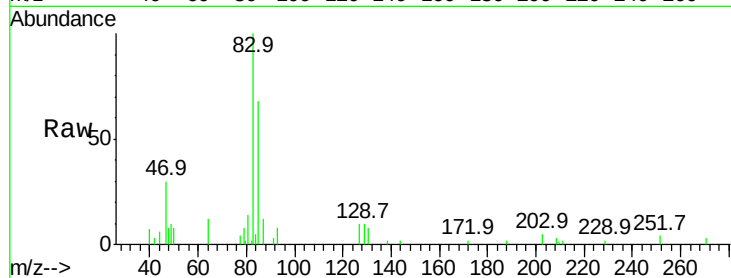
Tgt Ion: 83 Resp: 11812

Ion Ratio Lower Upper

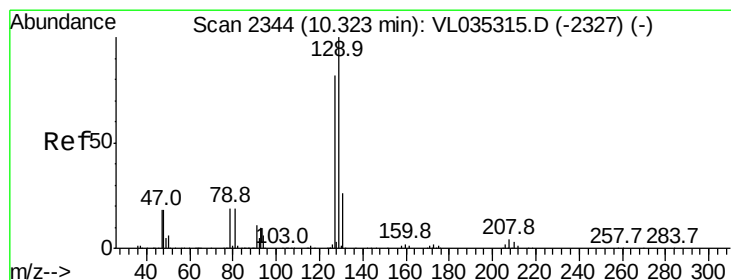
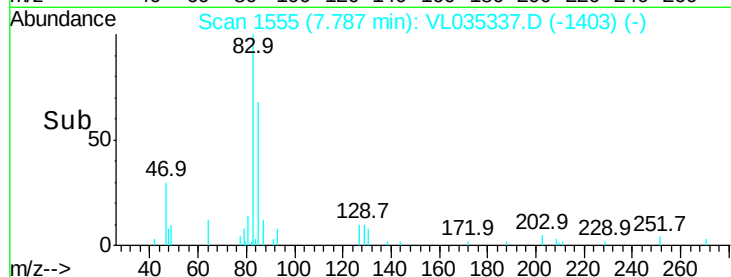
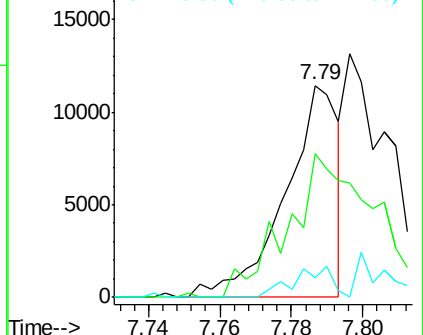
83 100

85 65.6 53.1 79.7

127 9.5 6.8 10.2



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V



#48

Dibromochloromethane

Concen: 0.070 ppbv

RT: 10.32 min Scan# 2342

Delta R.T. -0.01 min

Lab File: VL035337.D

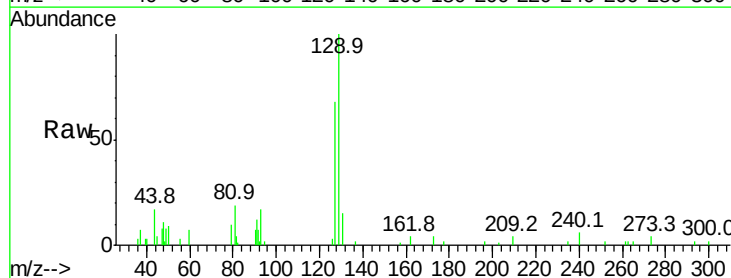
Acq: 5 Aug 2020 11:14

Tgt Ion: 129 Resp: 12767

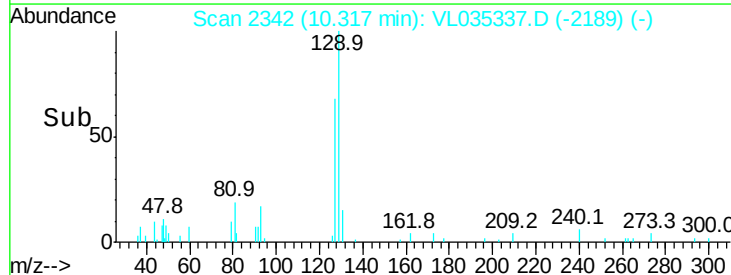
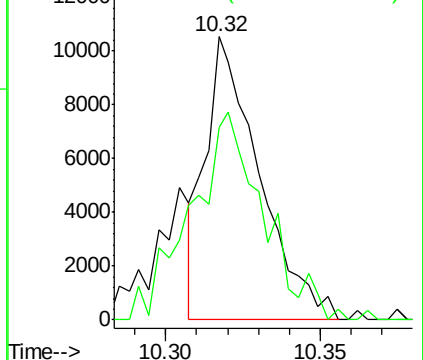
Ion Ratio Lower Upper

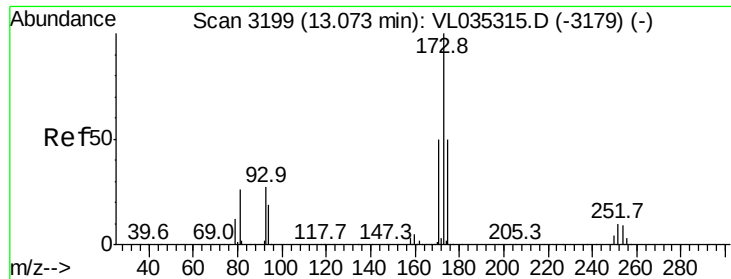
129 100

127 99.2 39.1 117.2



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





#49

Bromoform

Concen: 0.043 ppbv

RT: 13.06 min Scan# 3195

Delta R.T. -0.01 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

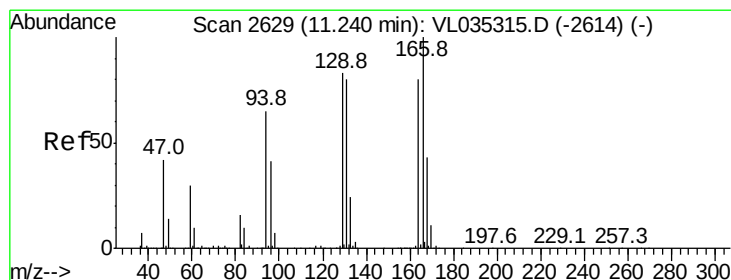
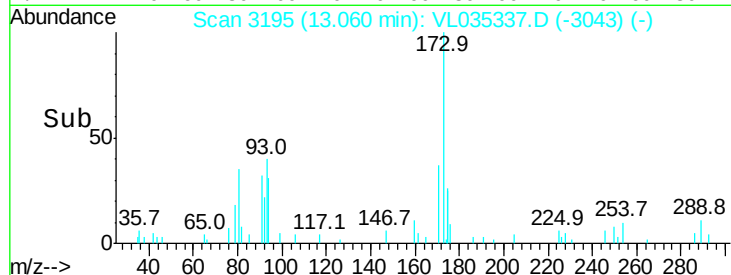
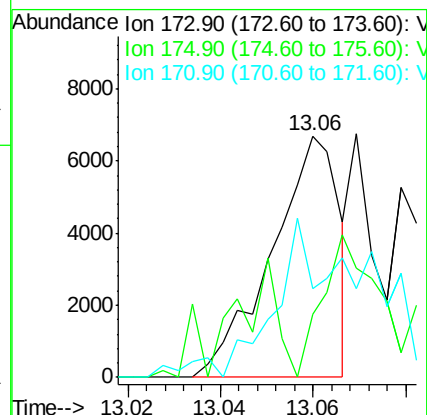
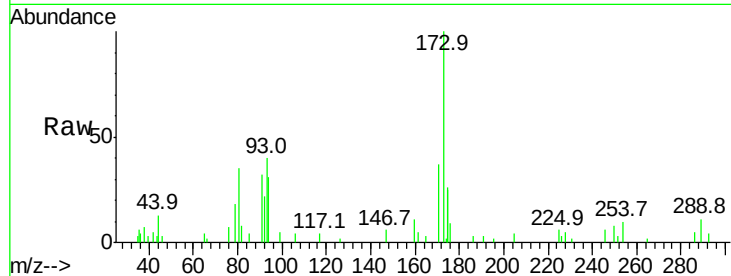
Tgt Ion:173 Resp: 6749

Ion Ratio Lower Upper

173 100

175 0.0 39.3 58.9#

171 107.1 41.2 61.8#



#52

Tetrachloroethene

Concen: 0.048 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. -0.01 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Tgt Ion:164 Resp: 4118

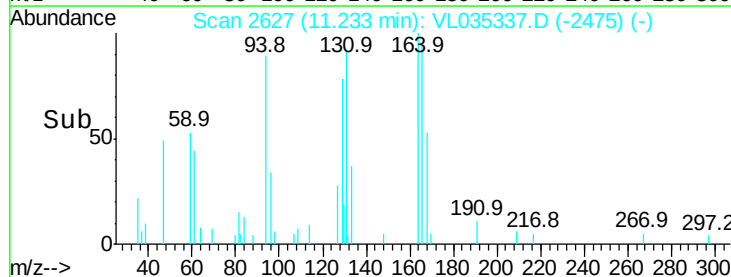
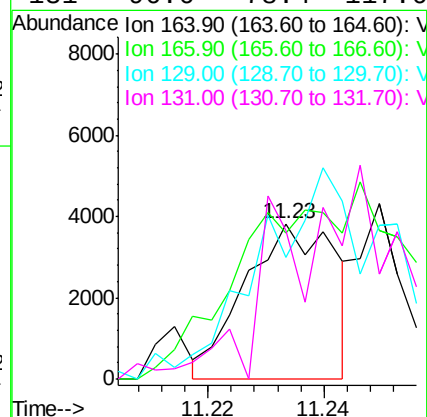
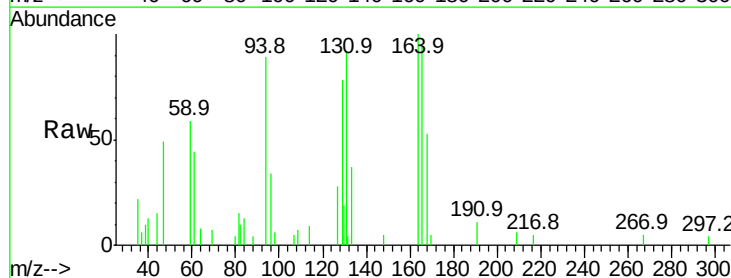
Ion Ratio Lower Upper

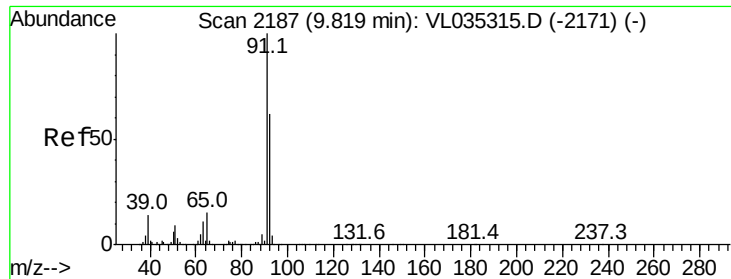
164 100

166 60.9 101.4 152.0#

129 71.0 82.1 123.1#

131 96.6 78.4 117.6





#53

Toluene

Concen: 0.031 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.01 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

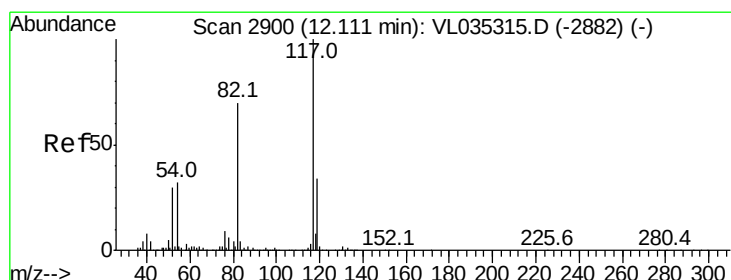
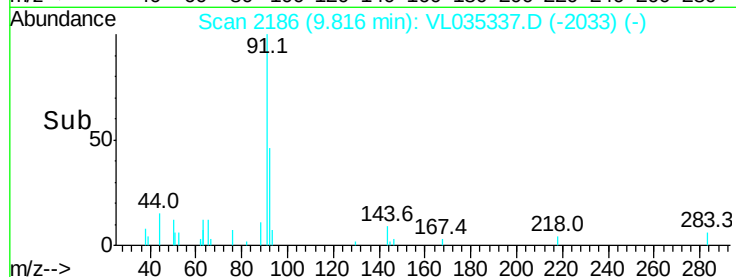
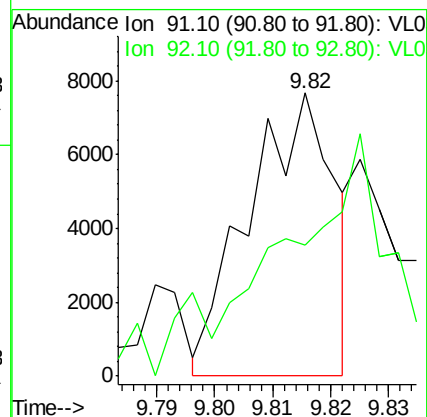
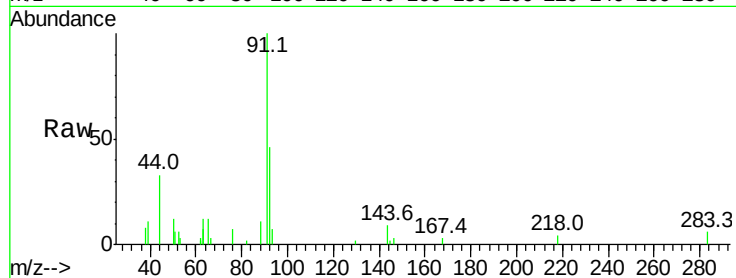
VSTDIC0.1

Tgt Ion: 91 Resp: 7834

Ion Ratio Lower Upper

91 100

92 0.0 48.5 72.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

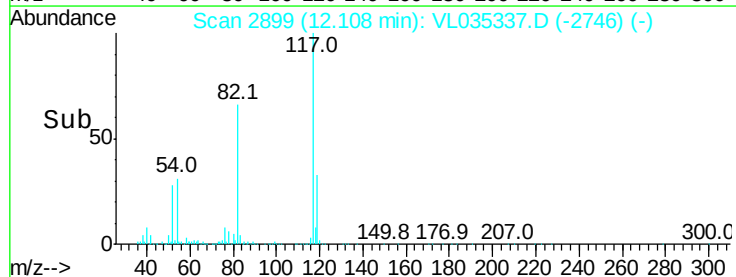
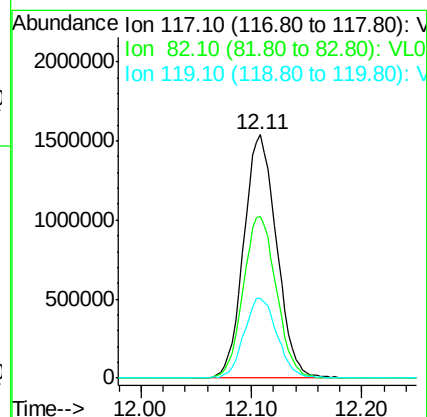
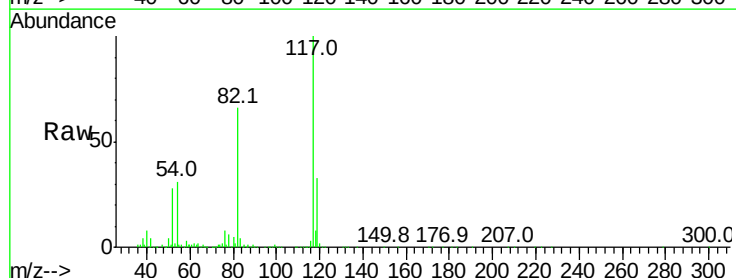
Tgt Ion: 117 Resp: 3181180

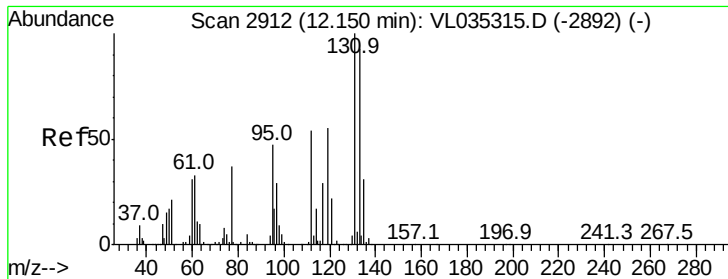
Ion Ratio Lower Upper

117 100

82 67.0 51.0 76.4

119 33.2 24.7 37.1





#56

1,1,1,2-Tetrachloroethane

Concen: 0.040 ppbv

RT: 12.15 min Scan# 2911

Delta R.T. -0.01 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

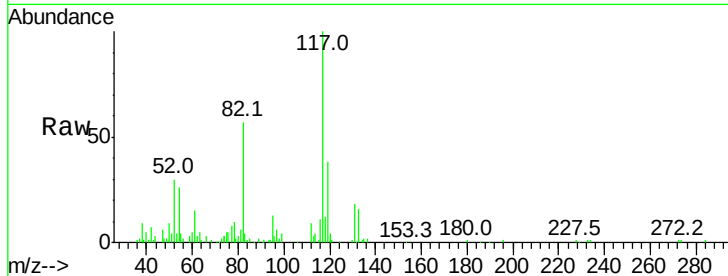
Tgt Ion:131 Resp: 5918

Ion Ratio Lower Upper

131 100

133 0.0 75.4 113.2#

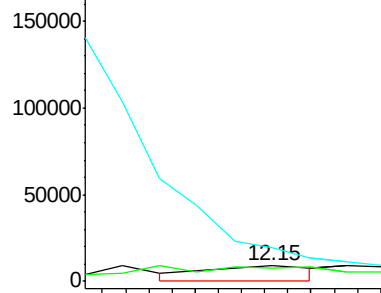
119 0.0 43.7 65.5#



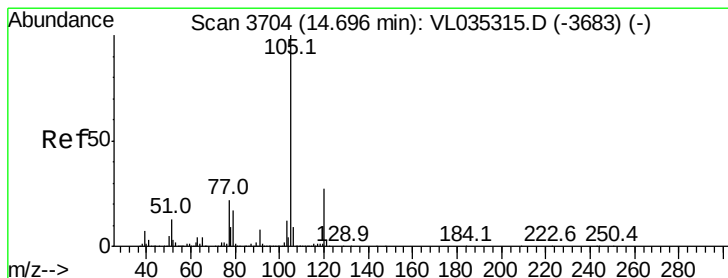
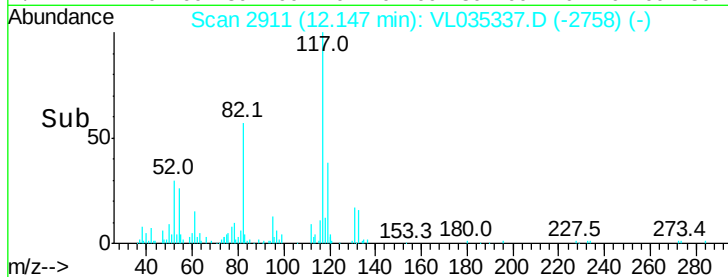
Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->



#62

Isopropylbenzene

Concen: 0.031 ppbv

RT: 14.69 min Scan# 3701

Delta R.T. -0.01 min

Lab File: VL035337.D

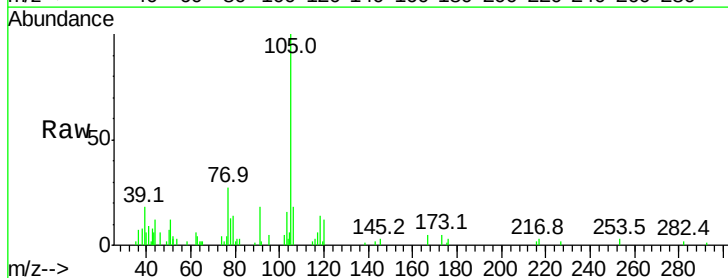
Acq: 5 Aug 2020 11:14

Tgt Ion:105 Resp: 14830

Ion Ratio Lower Upper

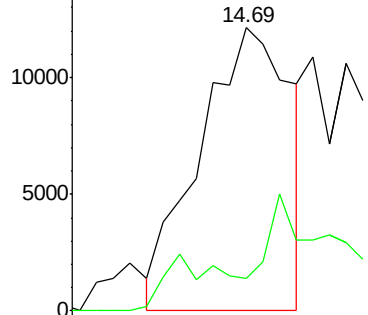
105 100

120 0.0 21.1 31.7#

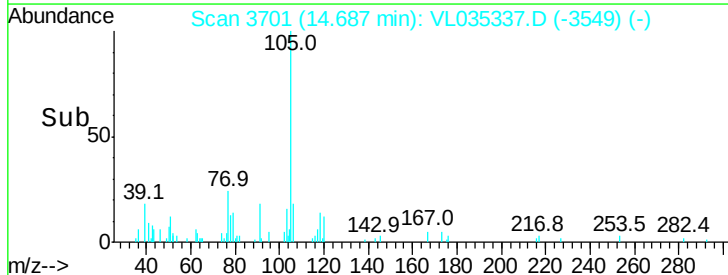


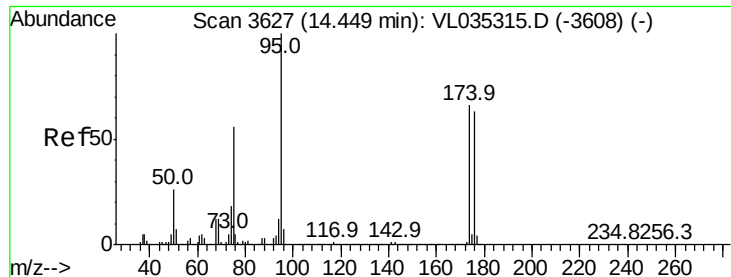
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



Time-->





#68

1-Bromo-4-Fluorobenzene

Concen: 10.035 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. -0.00 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

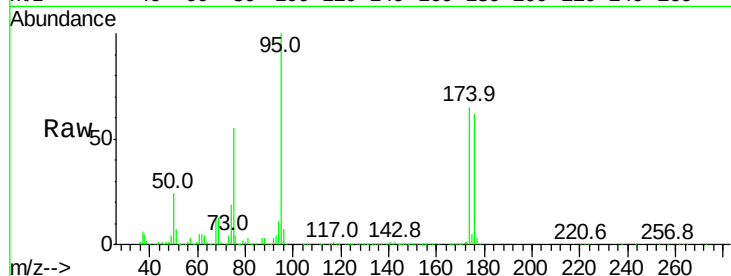
Tgt Ion: 95 Resp: 2674026

Ion Ratio Lower Upper

95 100

174 67.7 53.5 80.3

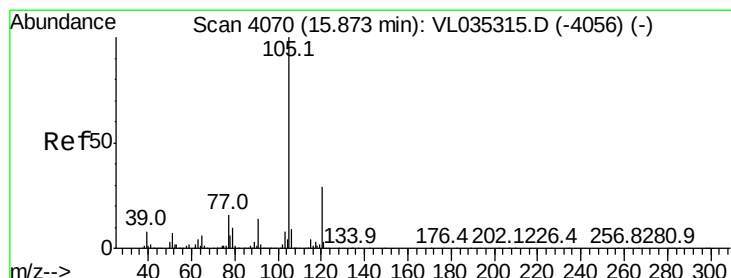
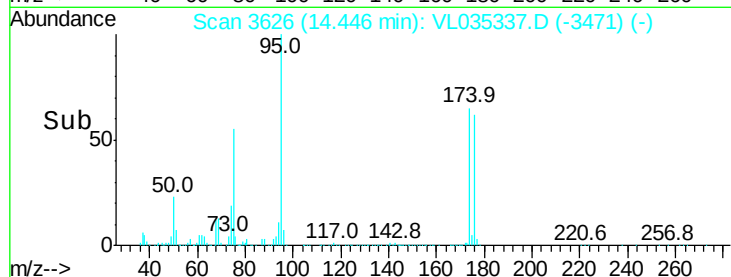
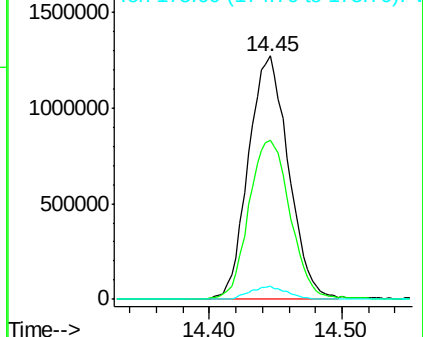
175 5.0 4.2 6.2



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



#72

4-Ethyltoluene

Concen: 0.034 ppbv

RT: 15.87 min Scan# 4070

Delta R.T. -0.00 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Tgt Ion: 105 Resp: 12139

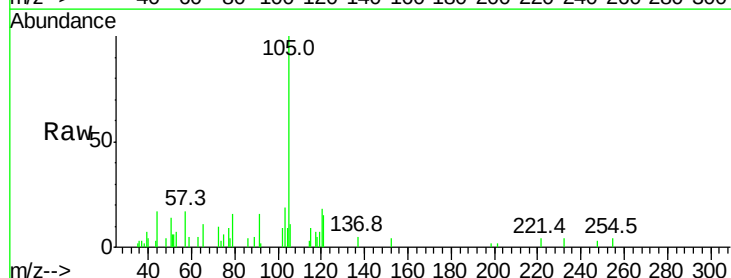
Ion Ratio Lower Upper

105 100

120 0.0 24.0 36.0#

91 21.3 10.8 16.2#

77 23.2 11.9 17.9#

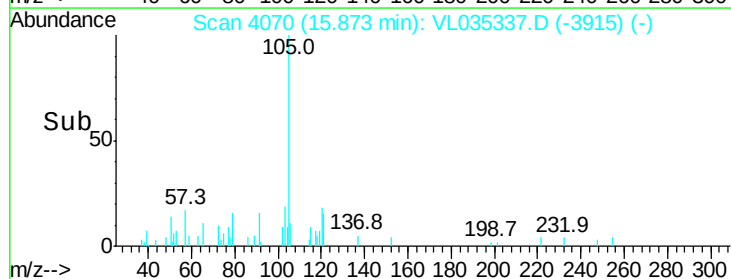
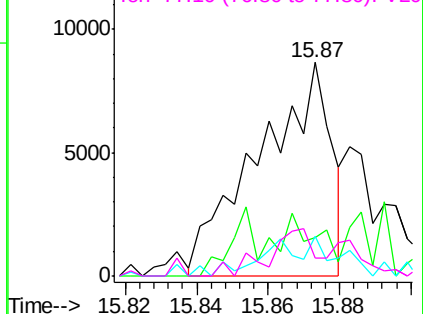


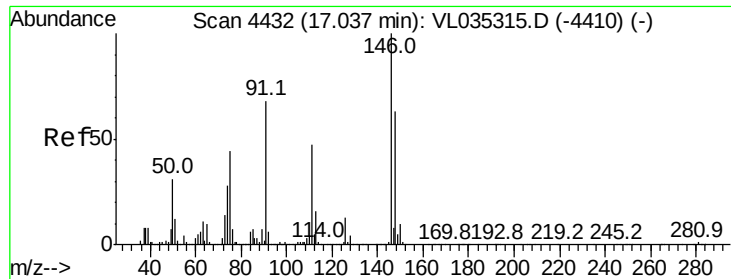
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 0.037 ppbv

RT: 17.03 min Scan# 4429

Delta R.T. -0.01 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

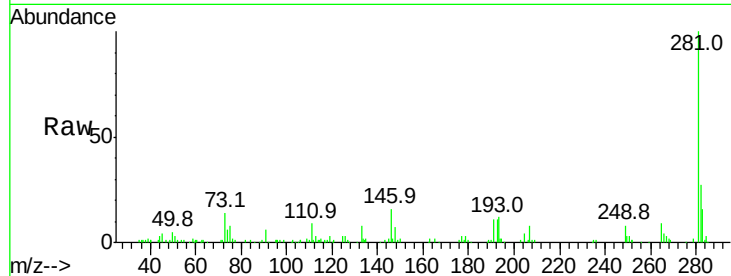
Tgt Ion:146 Resp: 9267

Ion Ratio Lower Upper

146 100

111 185.9 24.2 72.6#

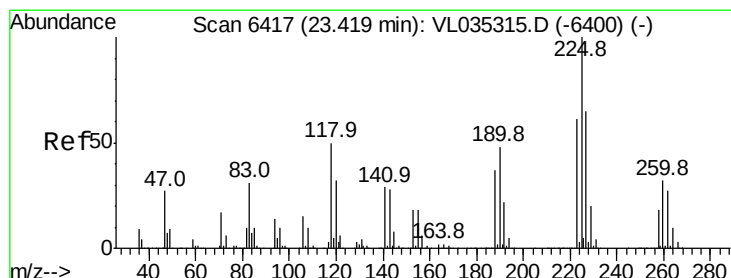
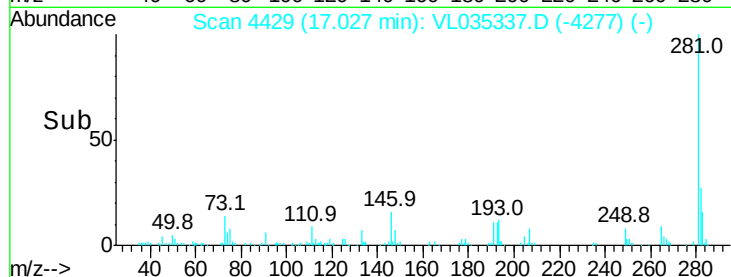
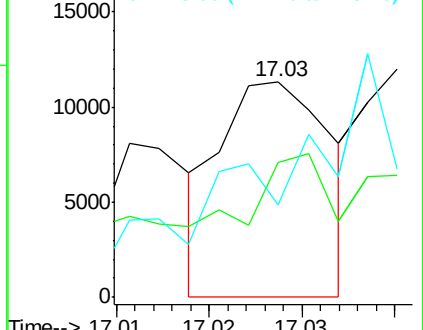
148 0.0 32.6 98.0#



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: 0.068 ppbv

RT: 23.41 min Scan# 6415

Delta R.T. -0.00 min

Lab File: VL035337.D

Acq: 5 Aug 2020 11:14

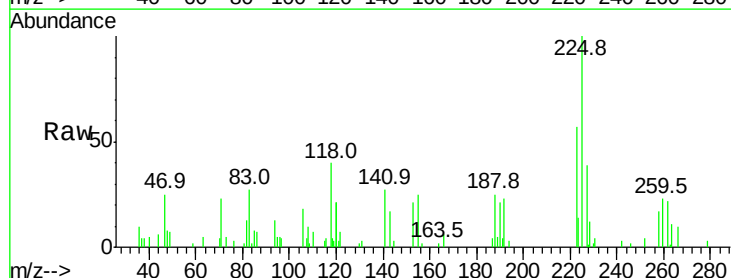
Tgt Ion:225 Resp: 12802

Ion Ratio Lower Upper

225 100

223 0.0 50.3 75.5#

227 130.8 52.7 79.1#



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

