

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035056.D
 Acq On : 19 May 2020 22:56
 Operator : SY/AP
 Sample : L2683-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 20 04:48:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1122833	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2593479	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2470421	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2103953	10.52	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.20%

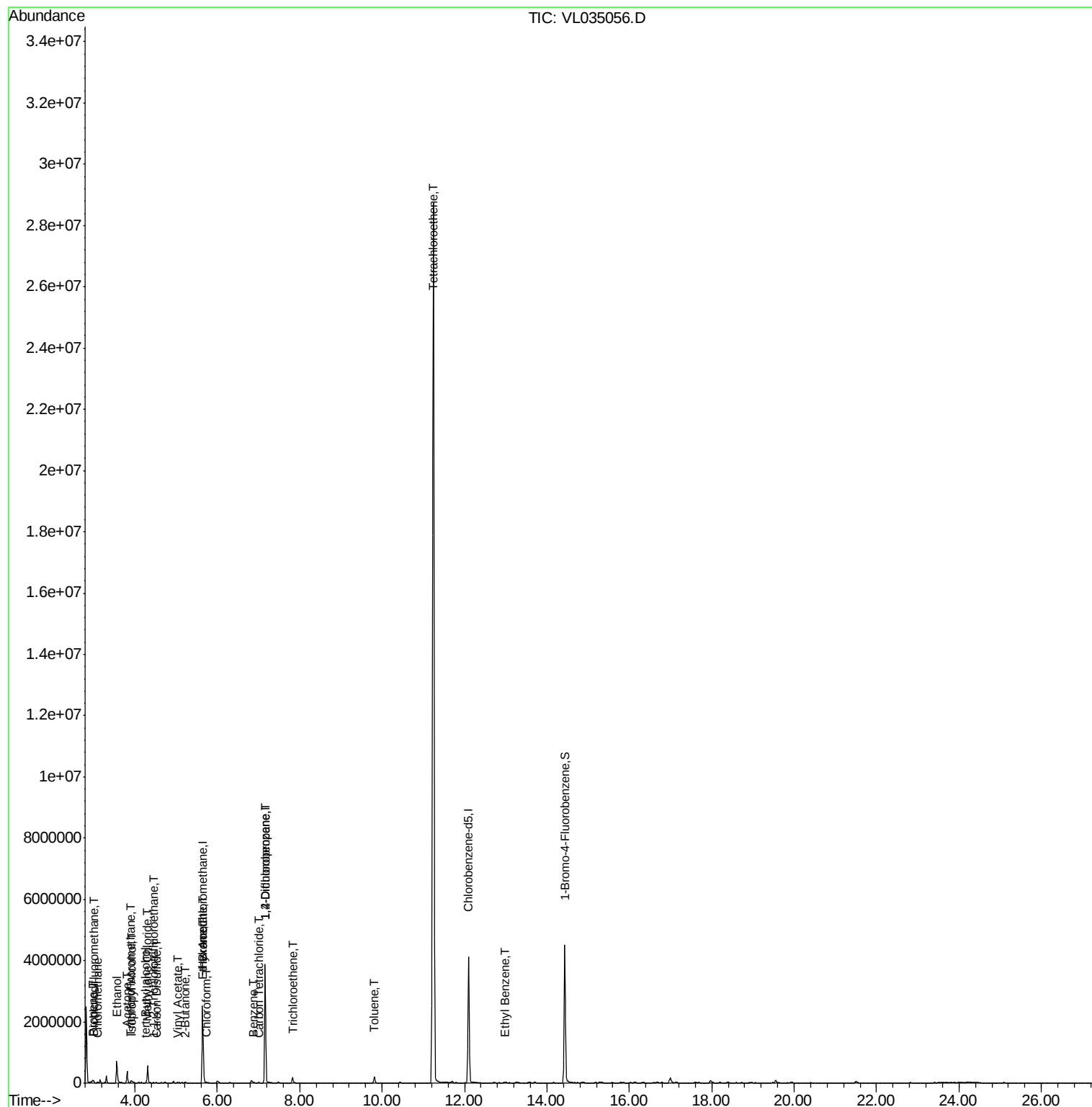
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	45732	0.287	ppbv	96
4) Chloromethane	3.09	50	6590	0.090	ppbv	96
9) Propene	2.97	41	17103	0.307	ppbv	90
11) Trichlorofluoromethane	3.91	101	41098	0.250	ppbv #	83
12) 1,1,2-Trichlorotrifluoroet	4.45	101	7449	0.064	ppbv	89
13) Ethanol	3.56	45	709660	38.660	ppbv	98
15) Acetone	3.81	43	351852	2.370	ppbv	99
17) tert-Butyl alcohol	4.25	59	4017	0.030	ppbv #	71
19) Isopropyl Alcohol	3.94	45	17107	0.173	ppbv #	94
20) Methylene Chloride	4.31	84	179863	3.660	ppbv	96
23) Vinyl Acetate	5.03	43	9330	0.050	ppbv #	67
25) Ethyl Acetate	5.66	43	78901	0.316	ppbv #	79
26) Hexane	5.66	57	106168	0.982	ppbv #	41
27) Carbon Disulfide	4.52	76	9141	0.072	ppbv #	38
29) Chloroform	5.73	83	8828	0.050	ppbv #	83
34) 2-Butanone	5.22	43	18983	0.118	ppbv #	53
35) Carbon Tetrachloride	7.01	117	5349	0.033	ppbv #	89
36) Benzene	6.87	78	7394	0.035	ppbv #	90
38) Trichloroethene	7.83	130	46129	0.557	ppbv	95
39) 1,2-Dichloropropane	7.16	63	726795	8.479	ppbv #	24
52) Tetrachloroethene	11.25	164	8803544	115.789	ppbv	92
53) Toluene	9.81	91	154355	0.681	ppbv	91
58) Ethyl Benzene	12.98	91	19481	0.064	ppbv	98

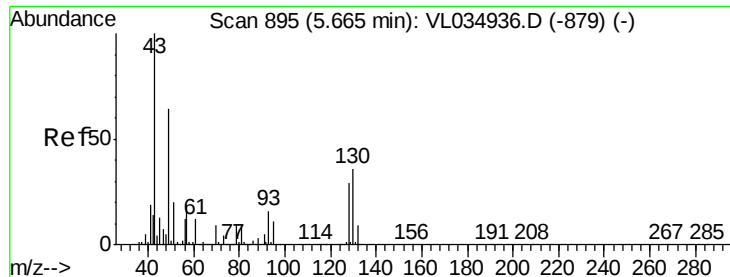
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.02 min

Lab File: VL035056.D

Acq: 19 May 2020 22:56

Instrument :

MSVOA_L

ClientSampled :

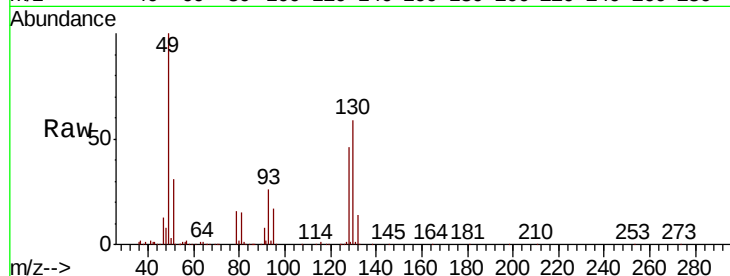
Tot Ion: 49 Resp: 1122833

Ion Ratio Lower Upper

49 100

128 45.8 22.1 66.5

130 58.9 29.1 87.3



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

5.64

800000

600000

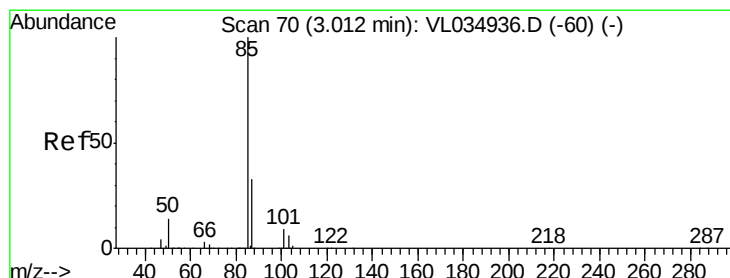
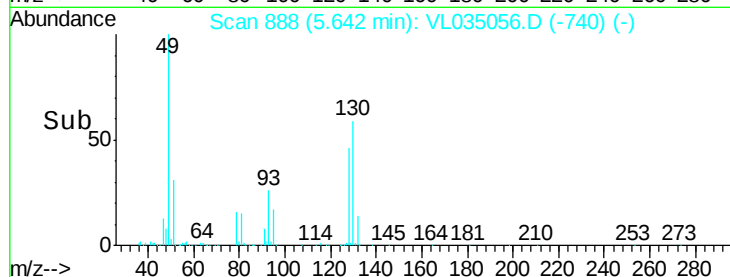
400000

200000

0

5.60 5.65 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.287 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035056.D

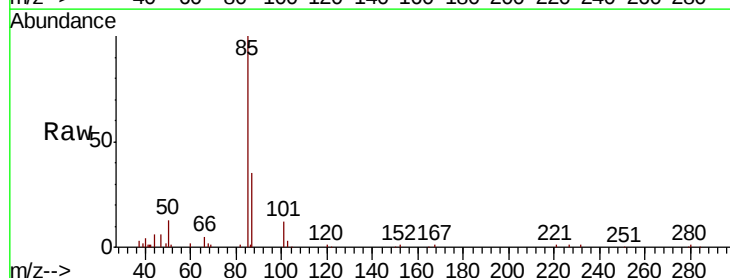
Acq: 19 May 2020 22:56

Tgt Ion: 85 Resp: 45732

Ion Ratio Lower Upper

85 100

87 34.7 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.00

40000

30000

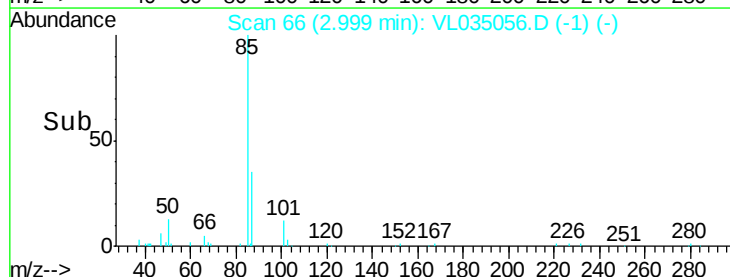
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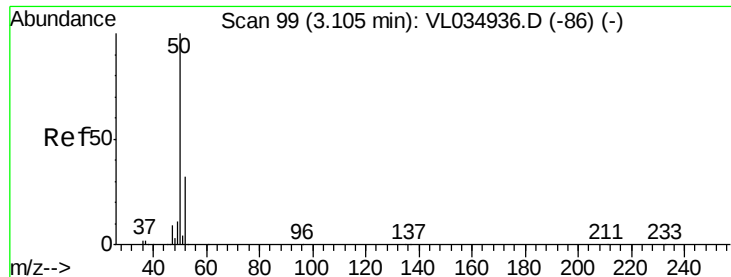
10000

0

2.95 3.00 3.05

Time-->





#4

Chloromethane

Concen: 0.090 ppbv

RT: 3.09 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL035056.D

Acq: 19 May 2020 22:56

Instrument :

MSVOA_L

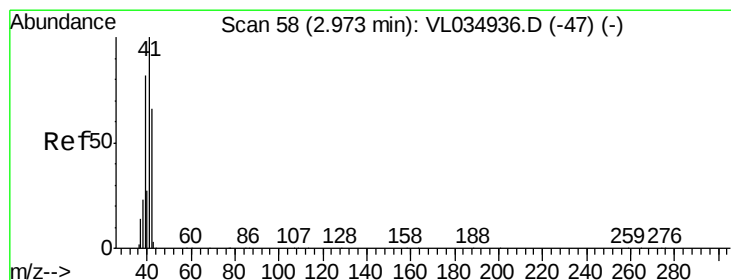
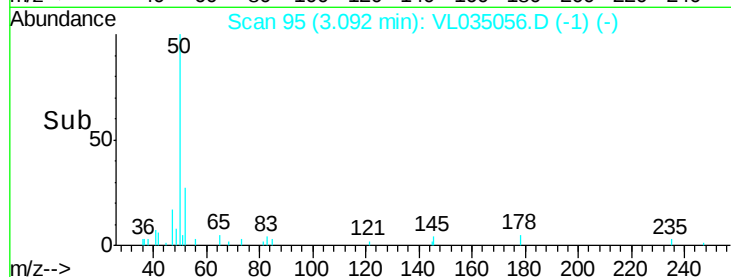
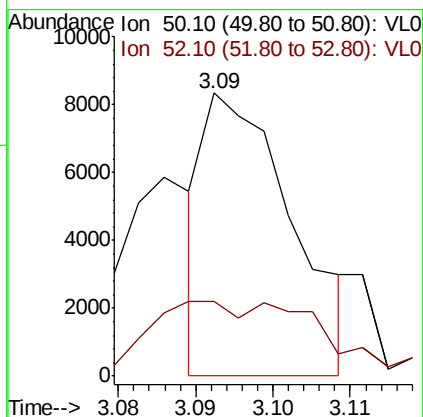
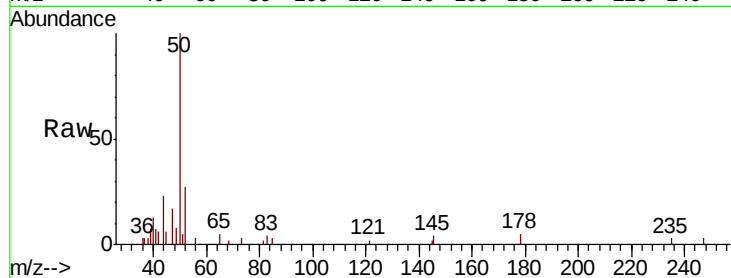
ClientSampleId :

Tot Ion: 50 Resp: 6590

Ion Ratio Lower Upper

50 100

52 29.4 25.4 38.2



#9

Propene

Concen: 0.307 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL035056.D

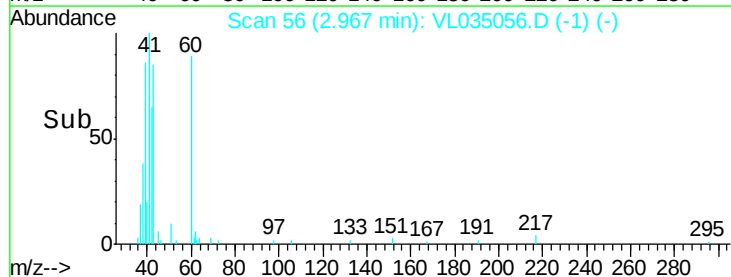
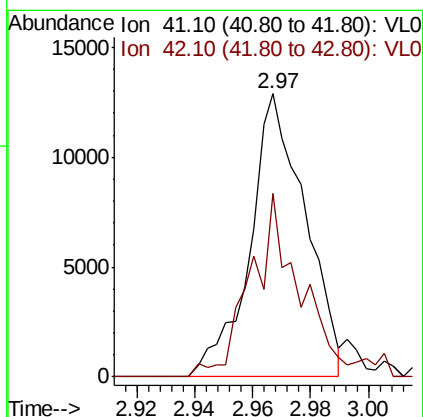
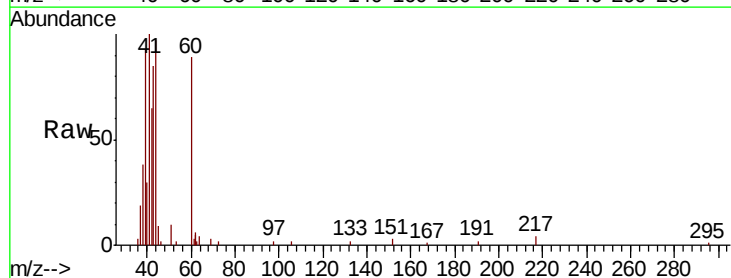
Acq: 19 May 2020 22:56

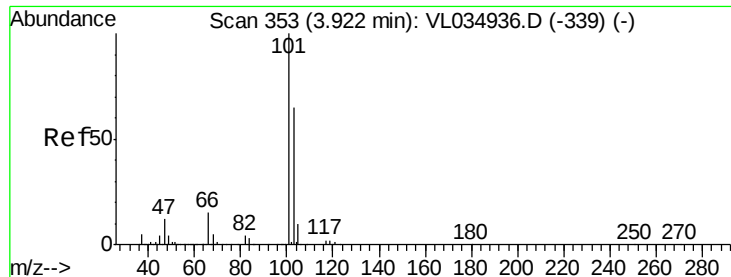
Tgt Ion: 41 Resp: 17103

Ion Ratio Lower Upper

41 100

42 60.2 54.5 81.7

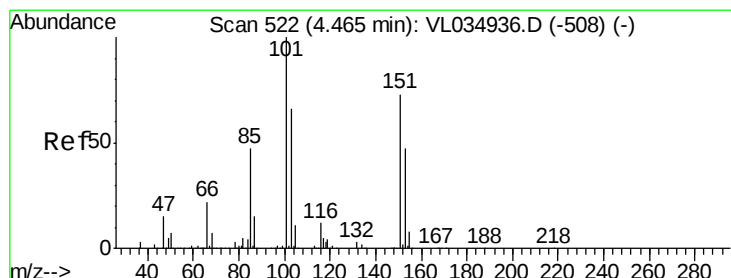
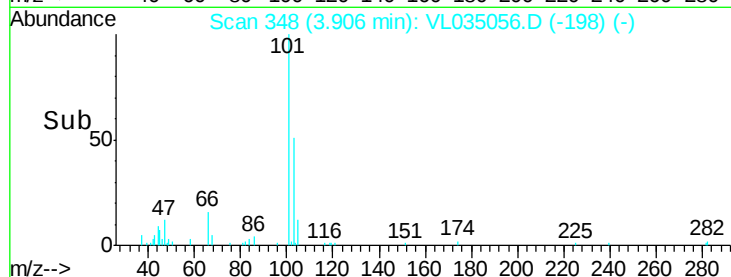
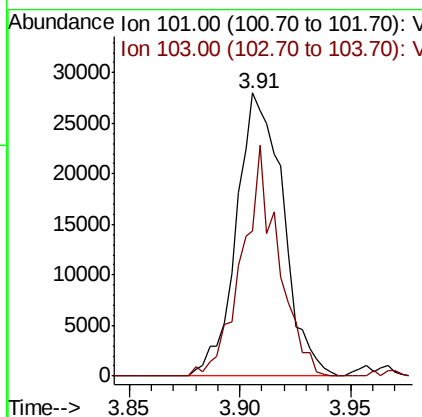
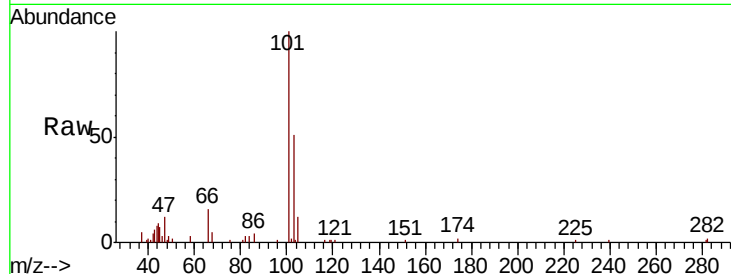




#11
 Trichlorofluoromethane
 Concen: 0.250 ppbv
 RT: 3.91 min Scan# 348
 Delta R.T. -0.02 min
 Lab File: VL035056.D
 Acq: 19 May 2020 22:56

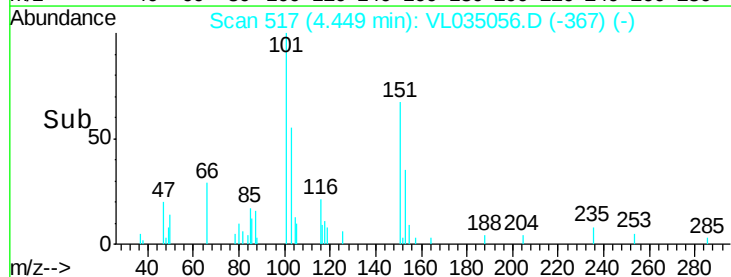
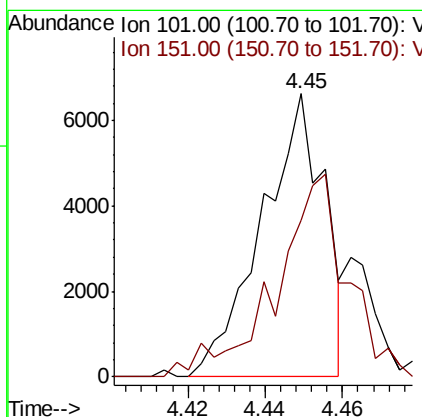
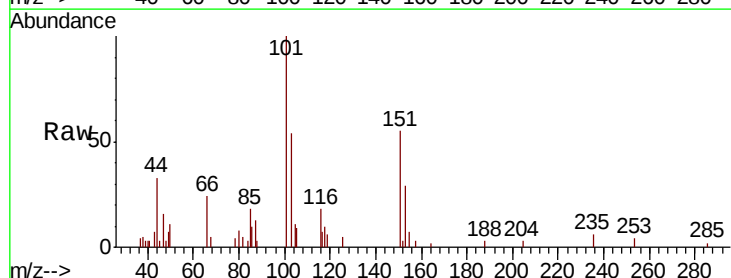
Instrument :
 MSVOA_L
 ClientSampleId :

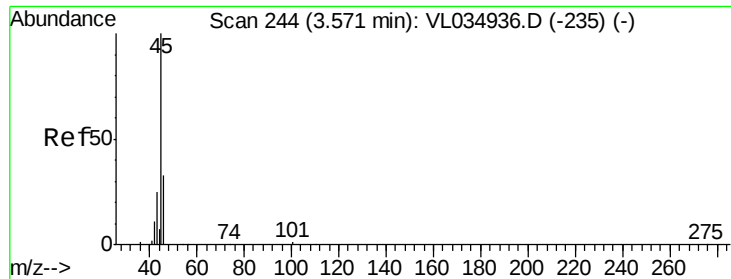
Tot Ion:101 Resp: 41098
 Ion Ratio Lower Upper
 101 100
 103 51.3 51.9 77.9#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.064 ppbv
 RT: 4.45 min Scan# 517
 Delta R.T. -0.02 min
 Lab File: VL035056.D
 Acq: 19 May 2020 22:56

Tgt Ion:101 Resp: 7449
 Ion Ratio Lower Upper
 101 100
 151 80.8 57.6 86.4

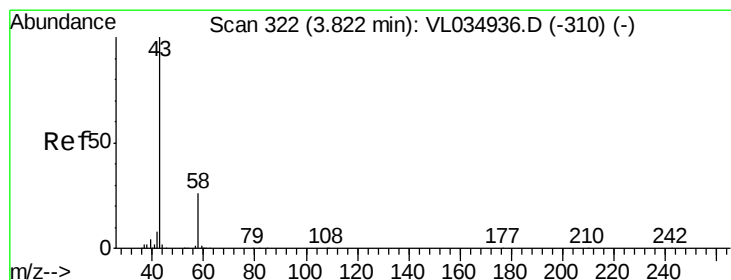
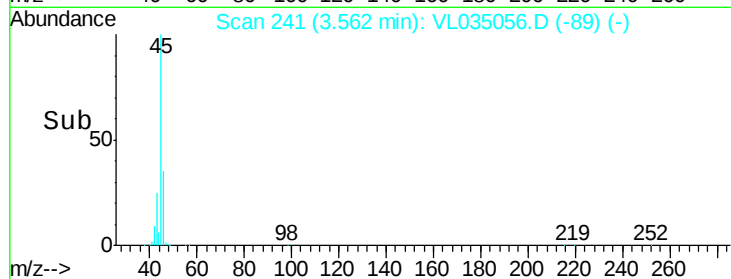
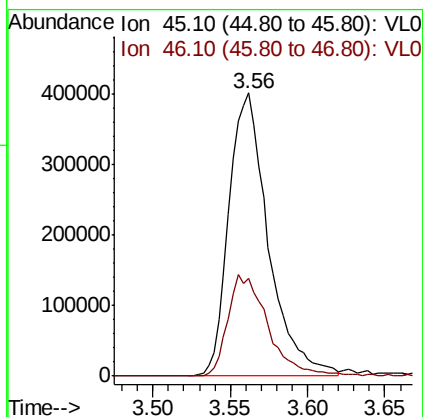
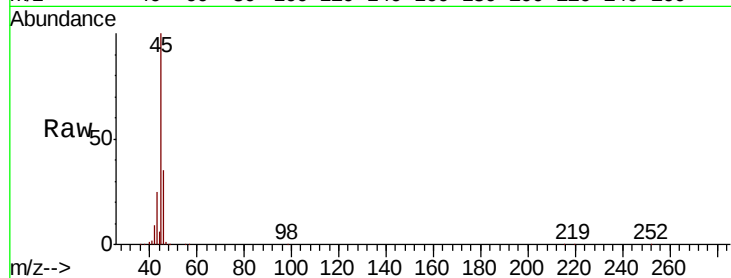




#13
Ethanol
Concen: 38.660 ppbv
RT: 3.56 min Scan# 241
Delta R.T. -0.01 min
Lab File: VL035056.D
Acq: 19 May 2020 22:56

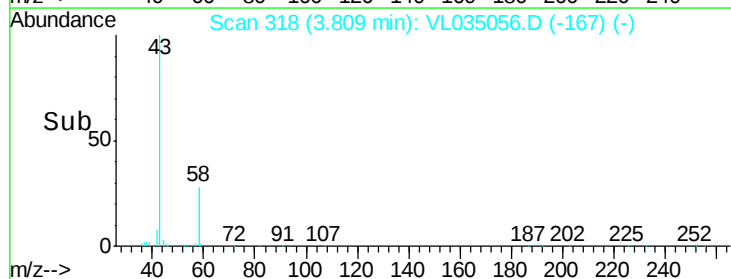
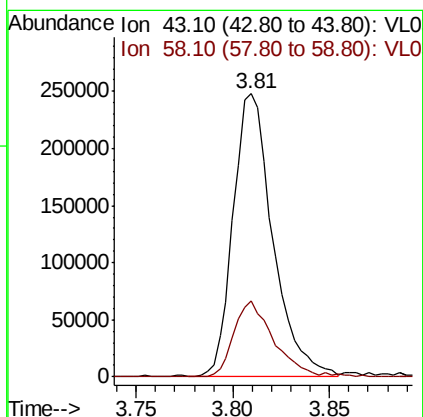
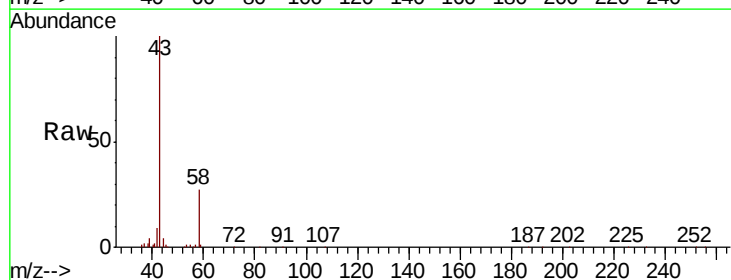
Instrument :
MSVOA_L
ClientSampleId :

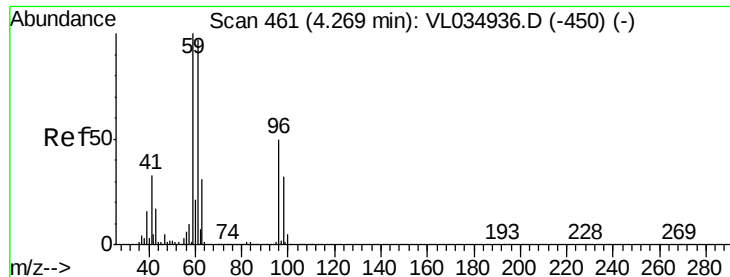
Tot Ion: 45 Resp: 709660
Ion Ratio Lower Upper
45 100
46 36.7 14.3 57.3



#15
Acetone
Concen: 2.370 ppbv
RT: 3.81 min Scan# 318
Delta R.T. -0.01 min
Lab File: VL035056.D
Acq: 19 May 2020 22:56

Tgt Ion: 43 Resp: 351852
Ion Ratio Lower Upper
43 100
58 27.6 21.7 32.5



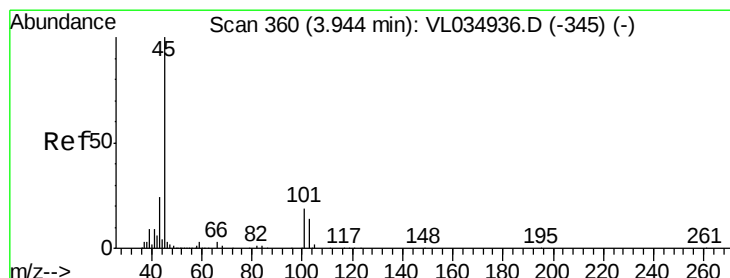
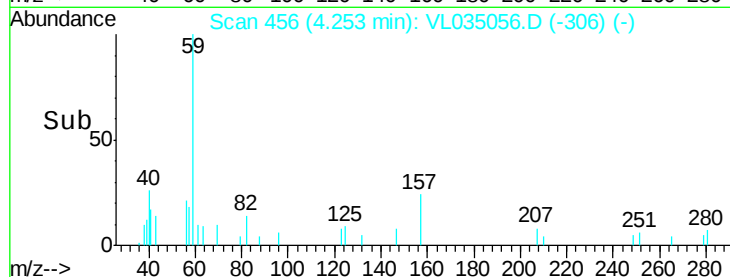
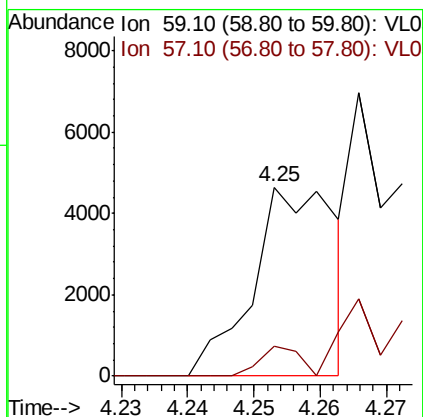
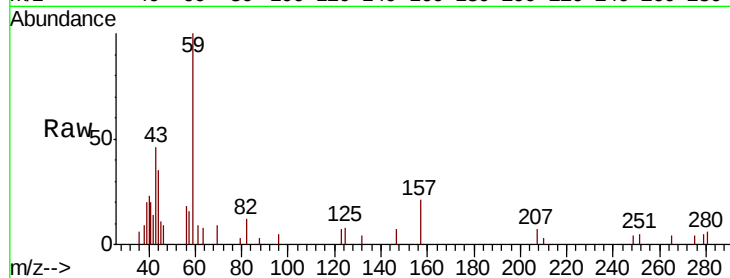


#17

tert-Butyl alcohol
 Concen: 0.030 ppbv
 RT: 4.25 min Scan# 456
 Delta R.T. -0.02 min
 Lab File: VL035056.D
 Acq: 19 May 2020 22:56

Instrument :
 MSVOA_L
 ClientSampled :

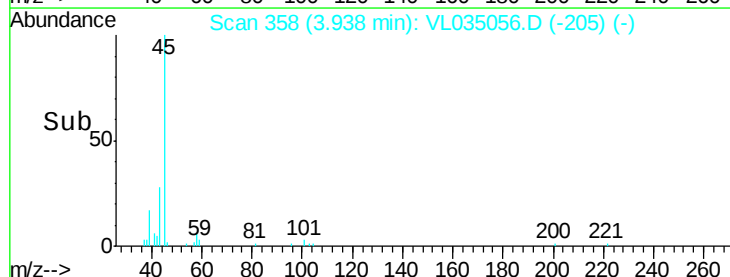
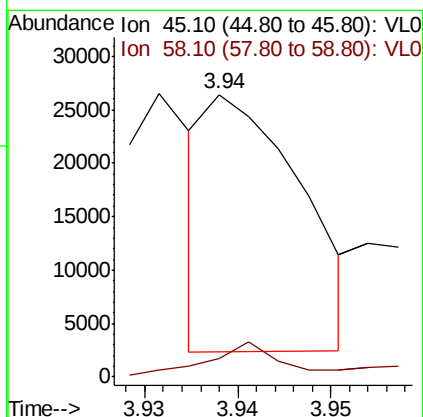
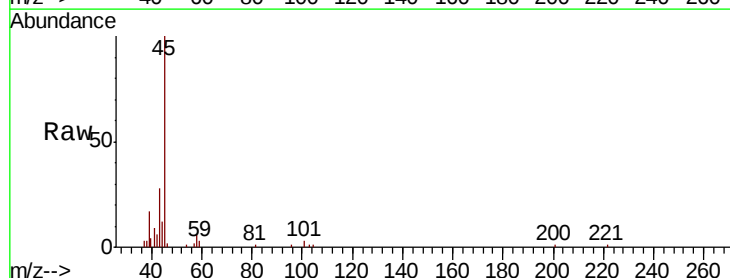
Tot Ion: 59 Resp: 4017
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.7 13.1#

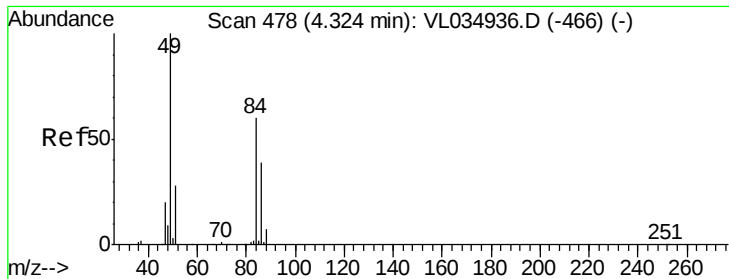


#19

Isopropyl Alcohol
 Concen: 0.173 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.01 min
 Lab File: VL035056.D
 Acq: 19 May 2020 22:56

Tgt Ion: 45 Resp: 17107
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.7 2.5#

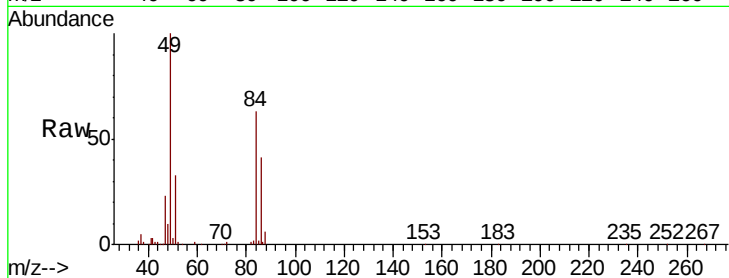




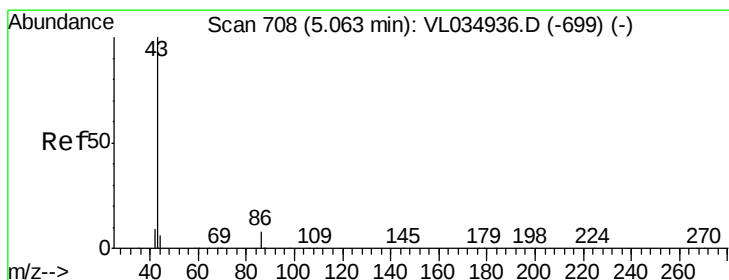
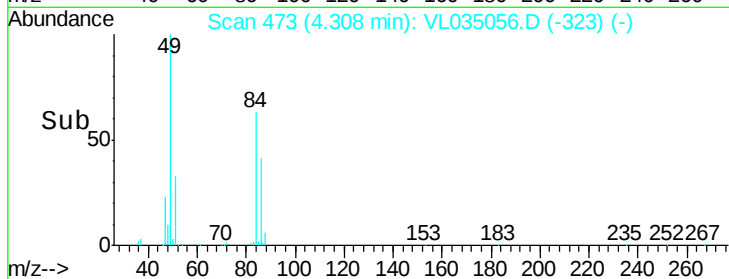
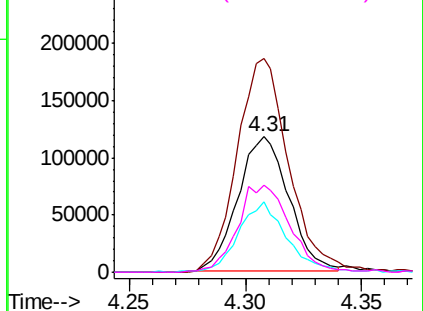
#20
Methvlene Chloride
Concen: 3.660 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.02 min
Lab File: VL035056.D
Acq: 19 May 2020 22:56

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	84	Resp:	179863
Ion	Ratio	Lower	Upper
84	100		
49	158.9	132.5	198.7
51	51.3	38.4	57.6
86	63.4	51.2	76.8

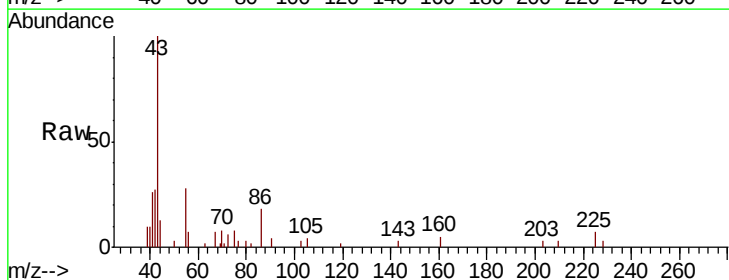


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

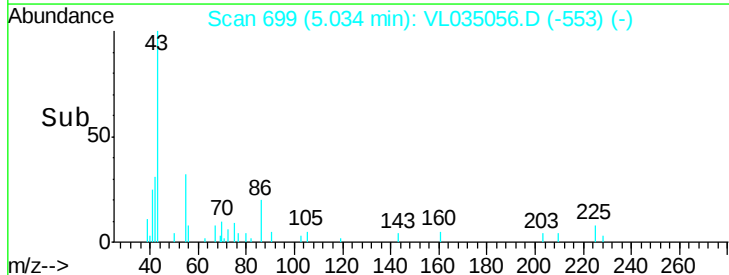
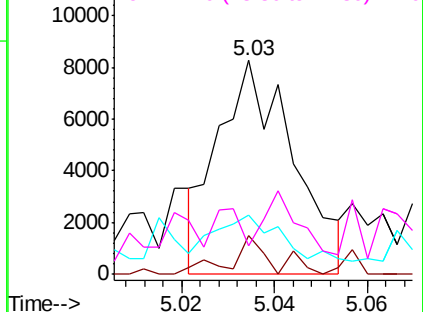


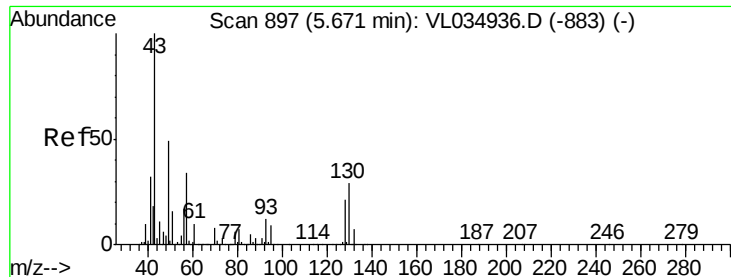
#23
Vinyl Acetate
Concen: 0.050 ppbv
RT: 5.03 min Scan# 699
Delta R.T. -0.03 min
Lab File: VL035056.D
Acq: 19 May 2020 22:56

Tgt Ion:	43	Resp:	9330
Ion	Ratio	Lower	Upper
43	100		
86	20.1	5.5	8.3#
42	27.4	8.0	12.0#
44	5.7	4.5	6.7



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

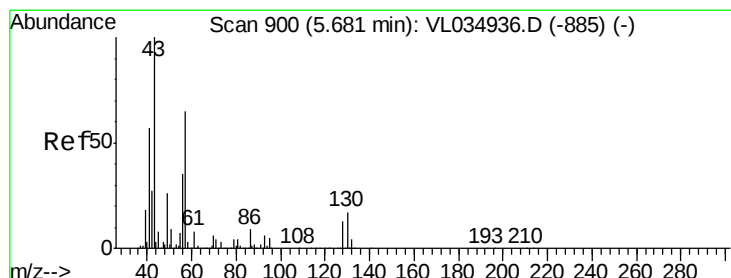
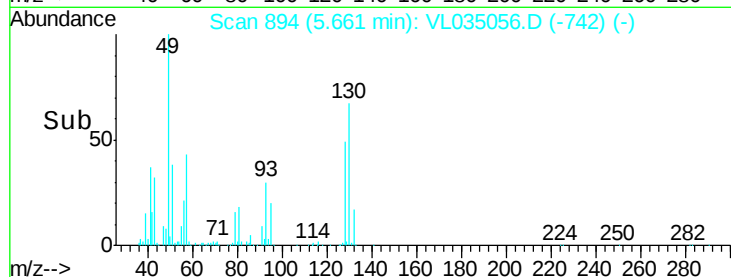
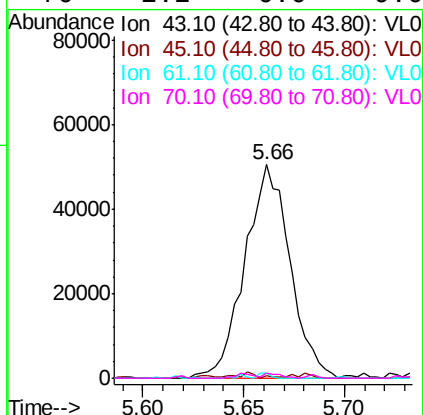
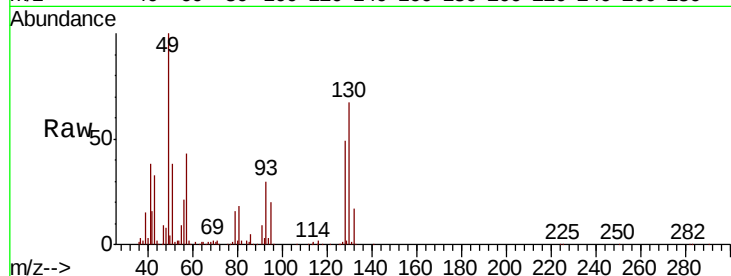




#25
Ethyl Acetate
Concen: 0.316 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL035056.D
Acq: 19 May 2020 22:56

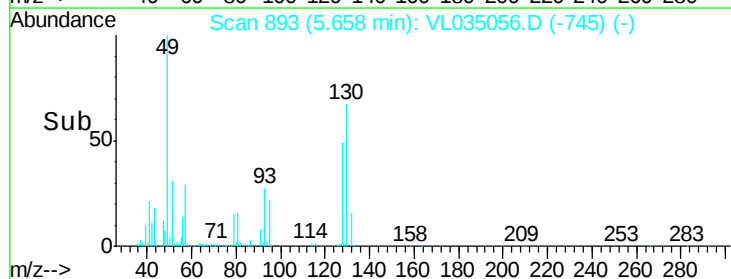
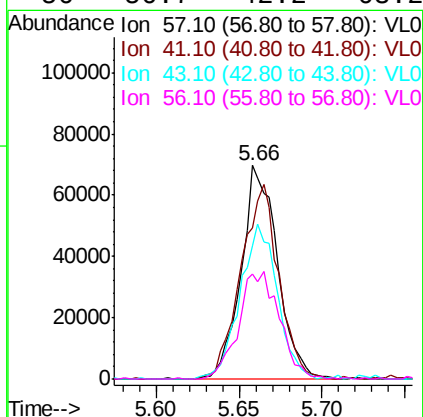
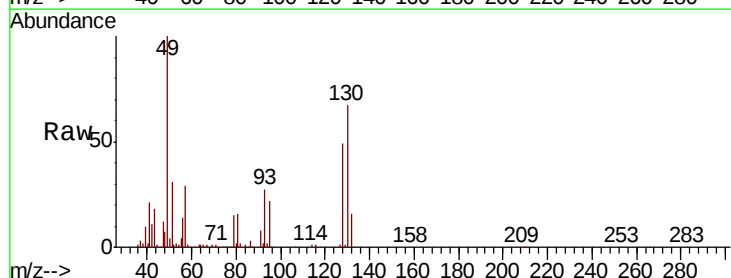
Instrument :
MSVOA_L
ClientSampleId :

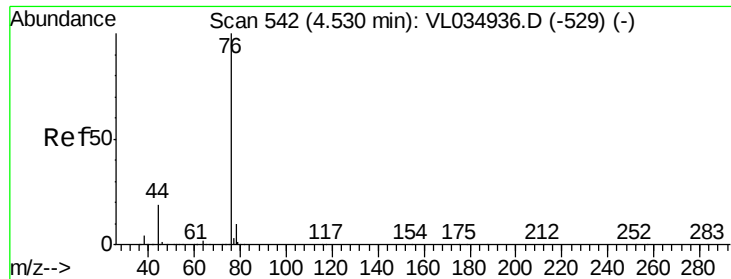
Tot Ion:	43	Resp:	78901
Ion	Ratio	Lower	Upper
43	100		
45	2.0	8.1	12.1#
61	1.1	7.8	11.8#
70	2.2	6.0	9.0#



#26
Hexane
Concen: 0.982 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL035056.D
Acq: 19 May 2020 22:56

Tgt Ion:	57	Resp:	106168
Ion	Ratio	Lower	Upper
57	100		
41	95.1	72.7	109.1
43	75.6	182.1	273.1#
56	56.7	42.2	63.2





#27

Carbon Disulfide

Concen: 0.072 ppbv

RT: 4.52 min Scan# 538

Delta R.T. -0.01 min

Lab File: VL035056.D

Acq: 19 May 2020 22:56

Instrument :

MSVOA_L

ClientSampleId :

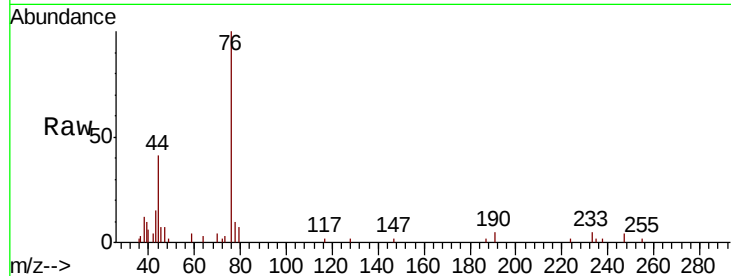
Tot Ion: 76 Resp: 9141

Ion Ratio Lower Upper

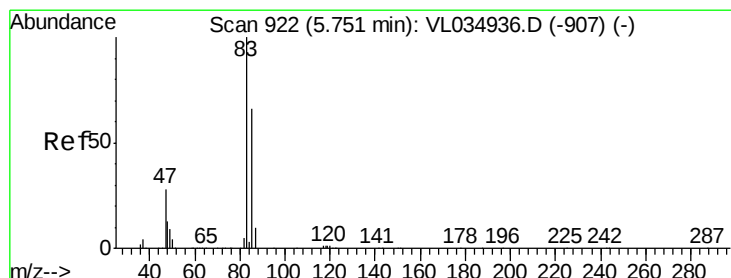
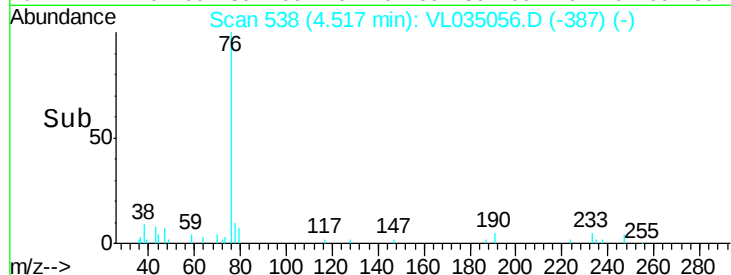
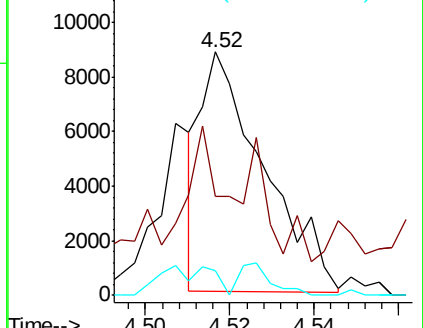
76 100

44 56.5 15.2 22.8#

78 17.5 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



#29

Chloroform

Concen: 0.050 ppbv

RT: 5.73 min Scan# 914

Delta R.T. -0.03 min

Lab File: VL035056.D

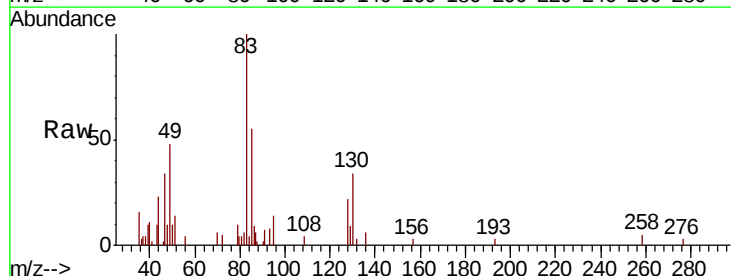
Acq: 19 May 2020 22:56

Tgt Ion: 83 Resp: 8828

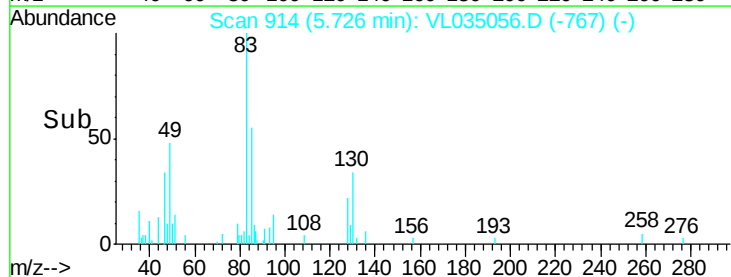
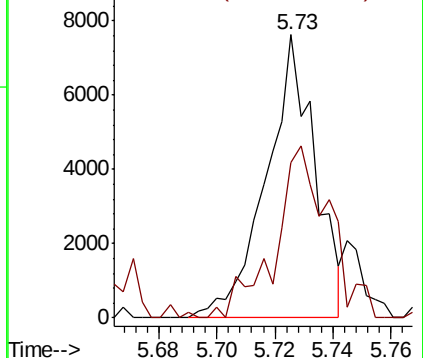
Ion Ratio Lower Upper

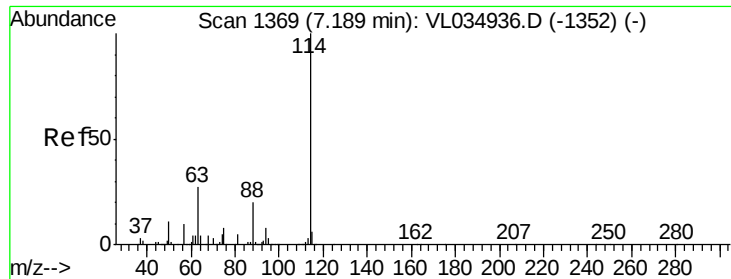
83 100

85 52.8 53.0 79.6#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0

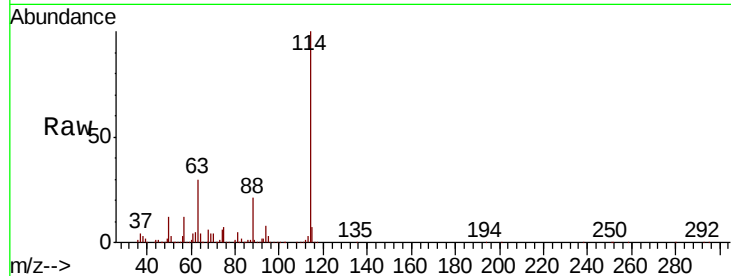




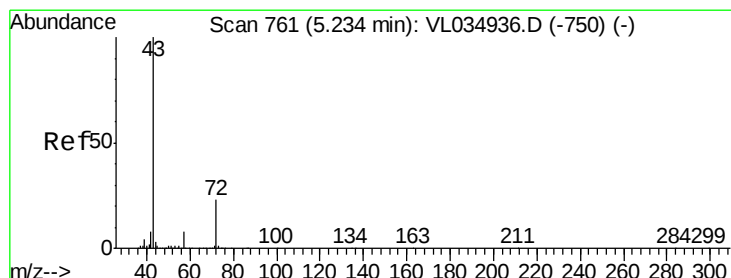
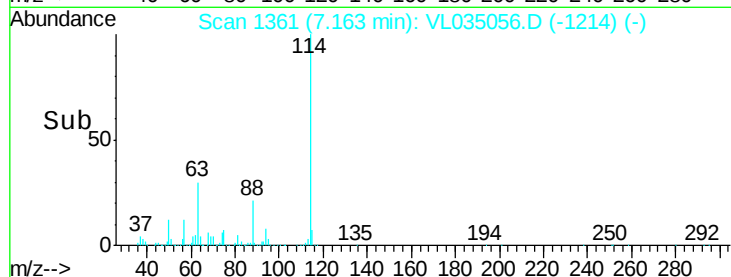
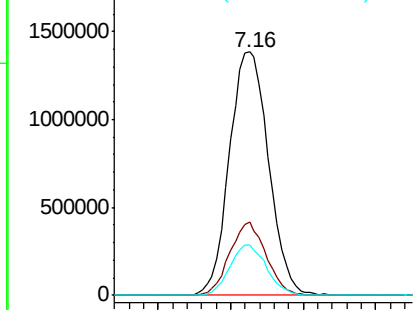
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.03 min
 Lab File: VL035056.D
 Acq: 19 May 2020 22:56

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 2593479
 Ion Ratio Lower Upper
 114 100
 63 28.1 22.2 33.4
 88 19.4 15.5 23.3

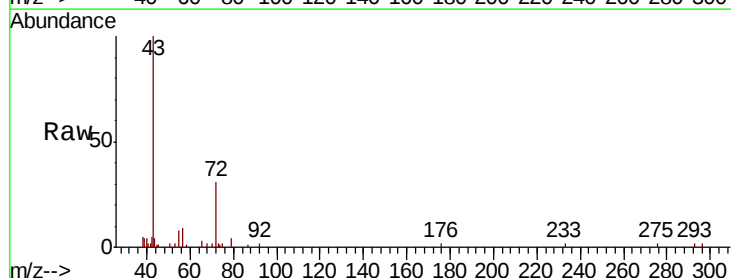


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

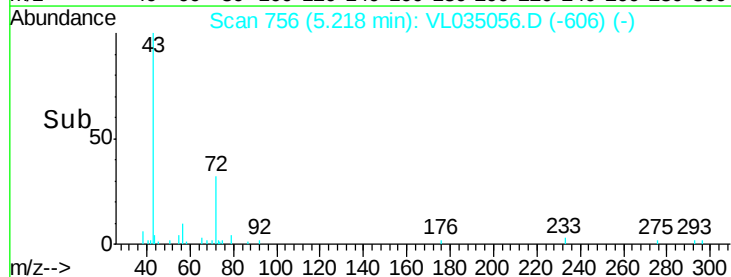
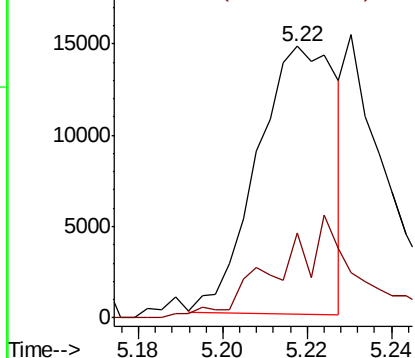


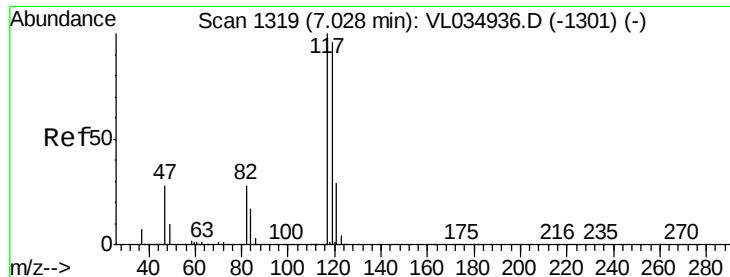
#34
 2-Butanone
 Concen: 0.118 ppbv
 RT: 5.22 min Scan# 756
 Delta R.T. -0.02 min
 Lab File: VL035056.D
 Acq: 19 May 2020 22:56

Tgt Ion: 43 Resp: 18983
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.0 27.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

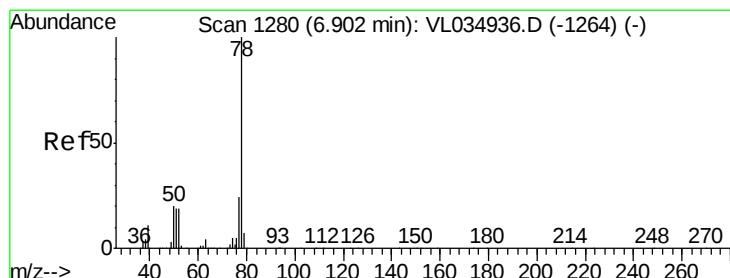
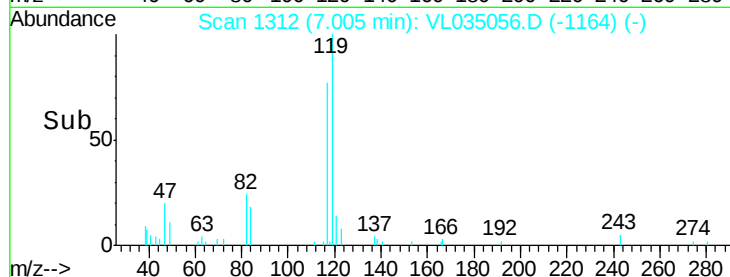
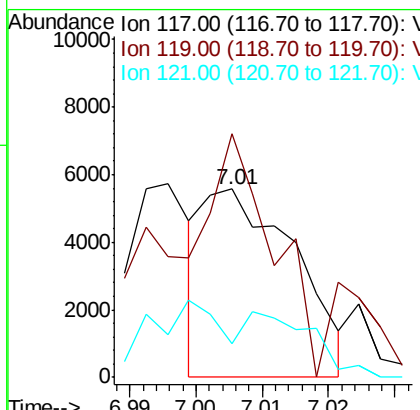
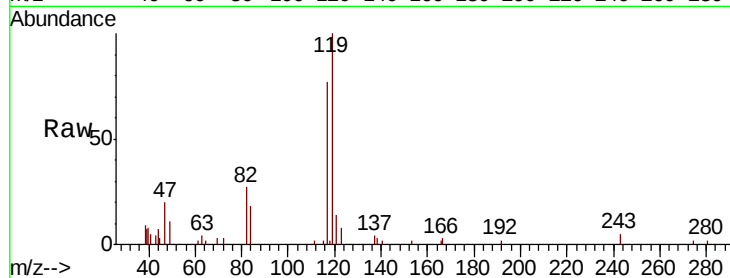




#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 7.01 min Scan# 1312
Delta R.T. -0.02 min
Lab File: VL035056.D
Acq: 19 May 2020 22:56

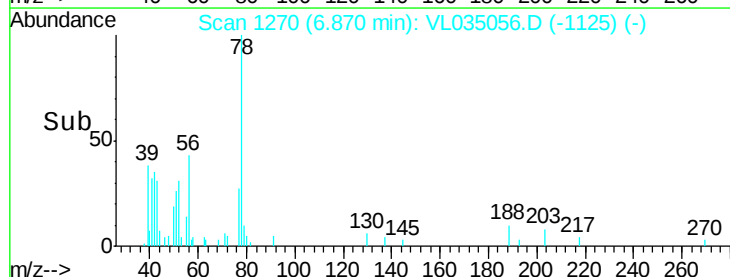
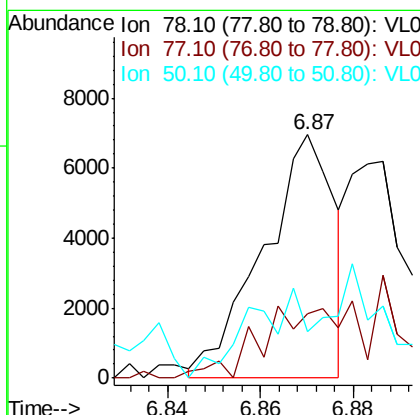
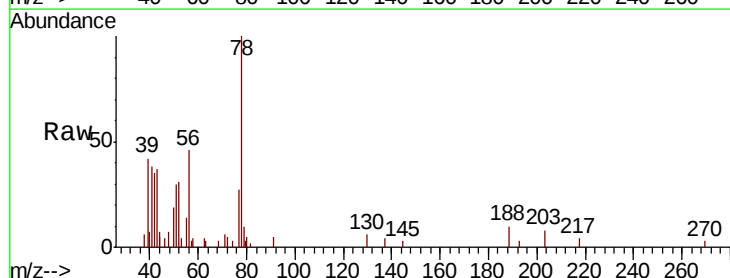
Instrument :
MSVOA_L
ClientSampleId :

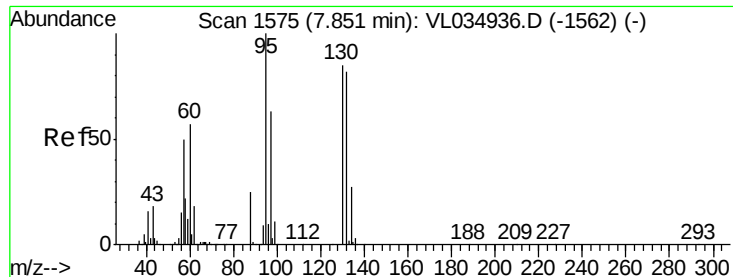
Tot Ion:117 Resp: 5349
Ion Ratio Lower Upper
117 100
119 104.1 77.0 115.6
121 17.9 23.0 34.6#



#36
Benzene
Concen: 0.035 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.03 min
Lab File: VL035056.D
Acq: 19 May 2020 22:56

Tgt Ion: 78 Resp: 7394
Ion Ratio Lower Upper
78 100
77 25.0 19.0 28.6
50 11.4 15.8 23.8#

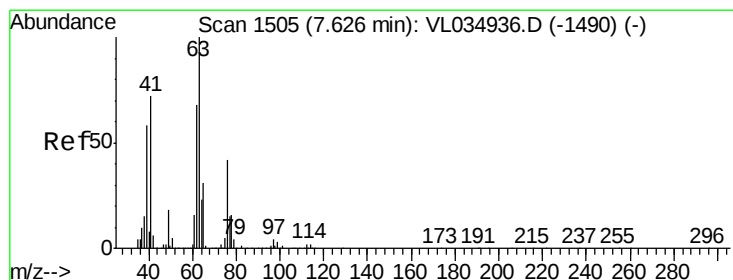
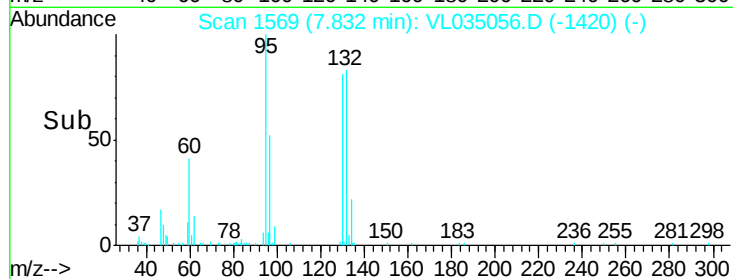
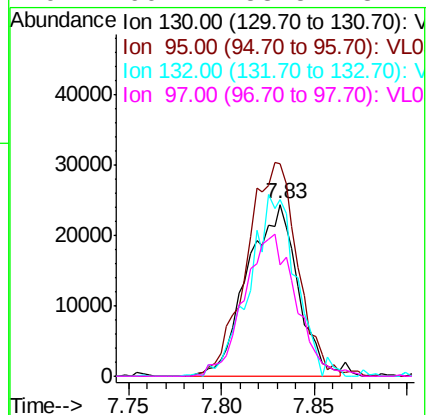
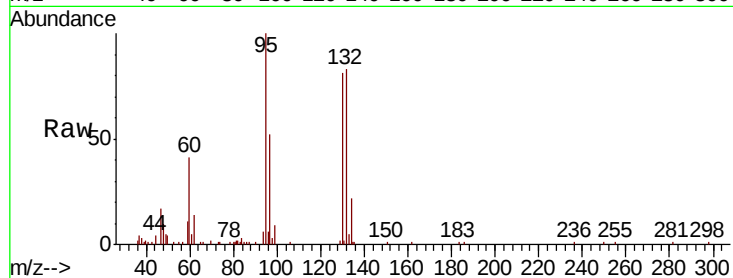




#38
 Trichloroethene
 Concen: 0.557 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.02 min
 Lab File: VL035056.D
 Acq: 19 May 2020 22:56

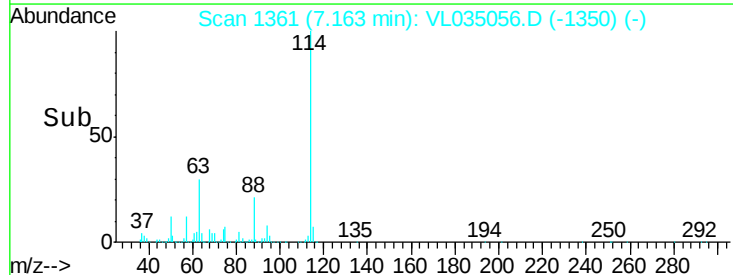
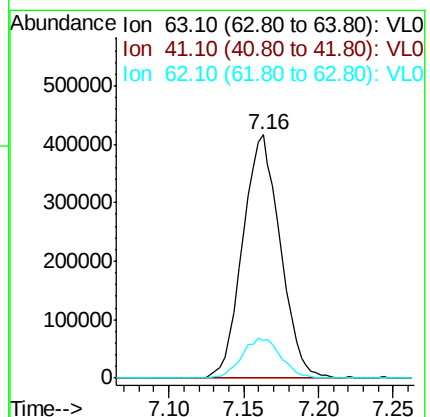
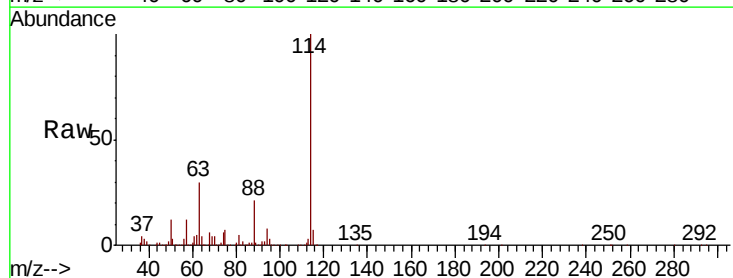
Instrument :
 MSVOA_L
 ClientSampleID :

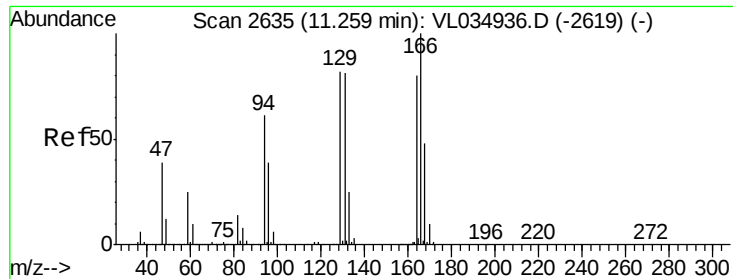
Tot Ion:130	Resp:	46129
Ion Ratio	Lower	Upper
130	100	
95	120.7	93.4 140.0
132	99.3	76.4 114.6
97	66.1	58.5 87.7



#39
 1,2-Dichloropropane
 Concen: 8.479 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.46 min
 Lab File: VL035056.D
 Acq: 19 May 2020 22:56

Tgt Ion: 63	Resp:	726795
Ion Ratio	Lower	Upper
63	100	
41	0.0	57.8 86.8#
62	15.6	54.2 81.2#





#52

Tetrachloroethene

Concen: 115.789 ppbv

RT: 11.25 min Scan# 2631

Delta R.T. -0.01 min

Lab File: VL035056.D

Acq: 19 May 2020 22:56

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 8803544

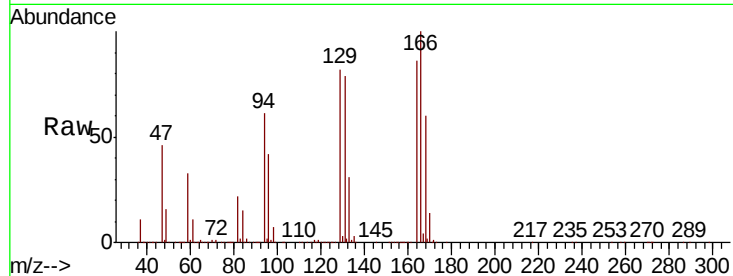
Ion Ratio Lower Upper

164 100

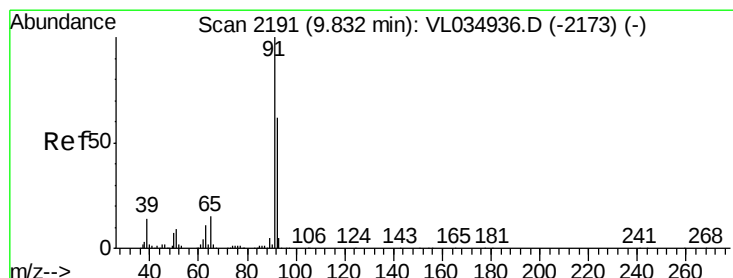
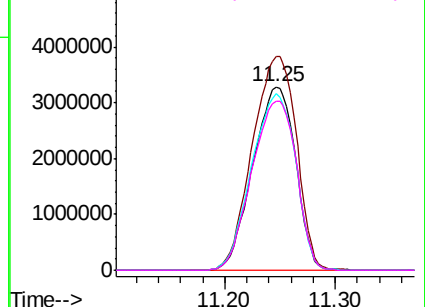
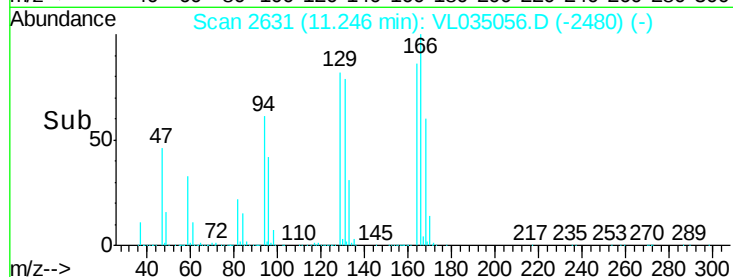
166 116.4 100.7 151.1

129 96.0 83.0 124.4

131 92.2 81.0 121.4



Abundance Ion 163.90 (163.60 to 164.60): V
6000000
Ion 165.90 (165.60 to 166.60): V
5000000
Ion 129.00 (128.70 to 129.70): V
4000000
Ion 131.00 (130.70 to 131.70): V
3000000
2000000
1000000
0



#53

Toluene

Concen: 0.681 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.03 min

Lab File: VL035056.D

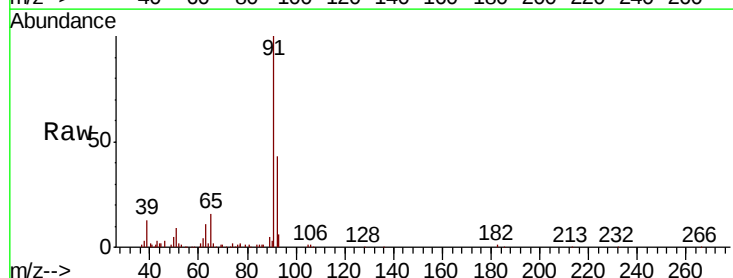
Acq: 19 May 2020 22:56

Tgt Ion: 91 Resp: 154355

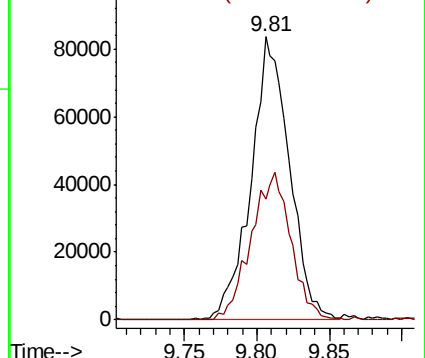
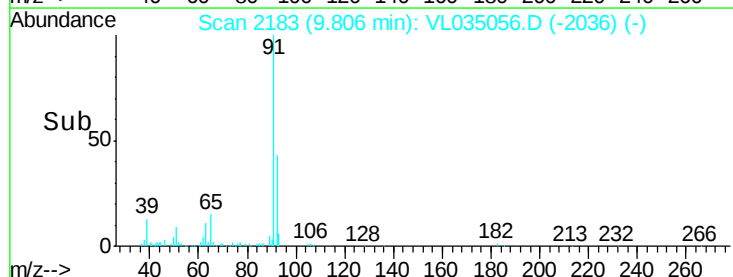
Ion Ratio Lower Upper

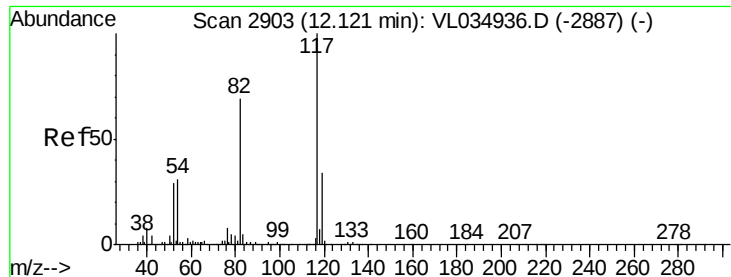
91 100

92 54.1 48.6 73.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
100000
Ion 92.10 (91.80 to 92.80): VL0
80000
60000
40000
20000
0

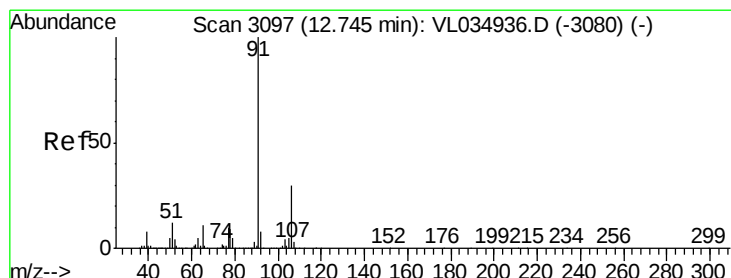
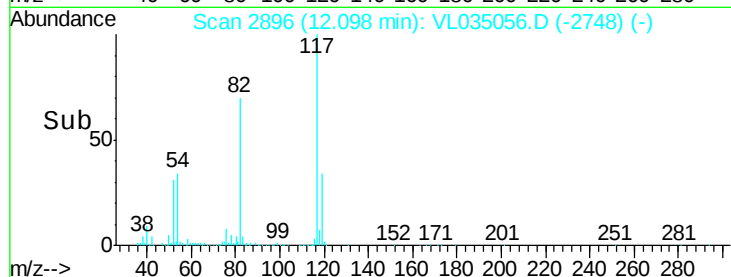
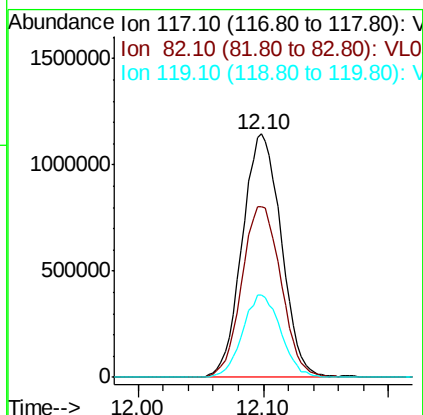
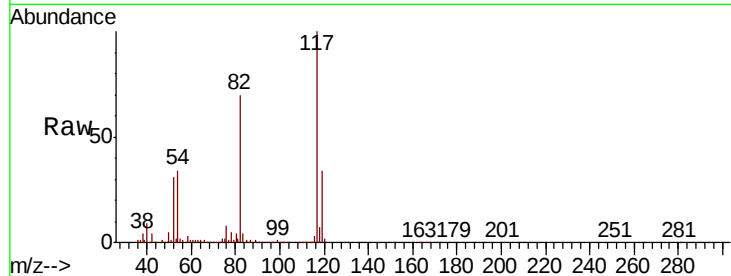




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. -0.02 min
Lab File: VL035056.D
Acq: 19 May 2020 22:56

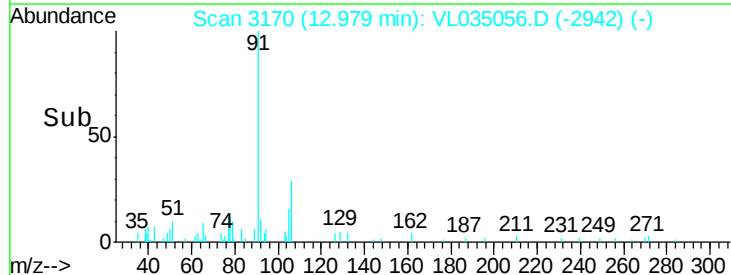
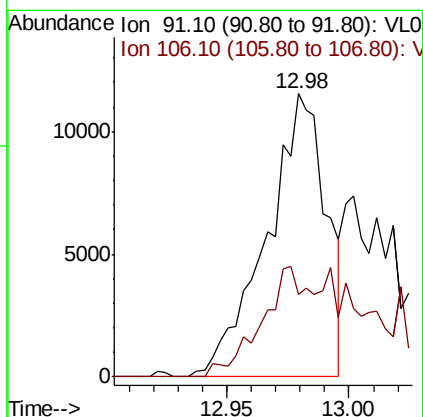
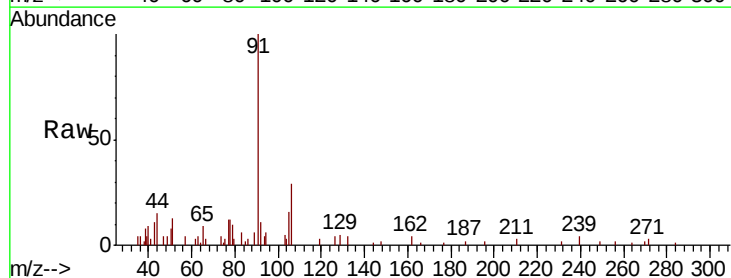
Instrument :
MSVOA_L
ClientSampleId :

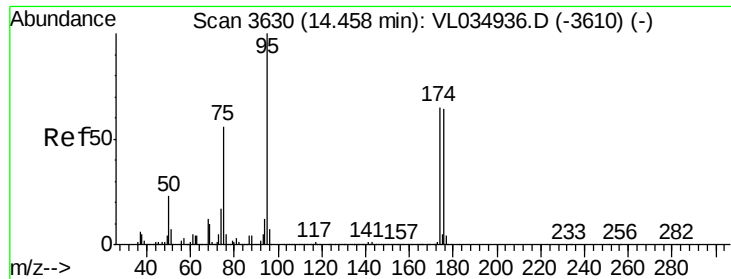
Tot Ion:117 Resp: 2470421
Ion Ratio Lower Upper
117 100
82 70.9 53.1 79.7
119 33.1 26.7 40.1



#58
Ethyl Benzene
Concen: 0.064 ppbv
RT: 12.98 min Scan# 3170
Delta R.T. 0.23 min
Lab File: VL035056.D
Acq: 19 May 2020 22:56

Tgt Ion: 91 Resp: 19481
Ion Ratio Lower Upper
91 100
106 29.0 24.2 36.4





#68

1-Bromo-4-Fluorobenzene

Concen: 10.522 ppbv

RT: 14.43 min Scan# 3622

Delta R.T. -0.03 min

Lab File: VL035056.D

Acq: 19 May 2020 22:56

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2103953

Ion Ratio Lower Upper

95 100

174 63.8 51.5 77.3

175 4.8 3.8 5.8

