

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035257.D
 Acq On : 29 Jul 2020 22:11
 Operator : SY/AP
 Sample : L3463-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:53:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 29 07:14:29 2020
 QLast Update : Wed Jul 29 07:14:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1153131	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2750819	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2575677	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2111832	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

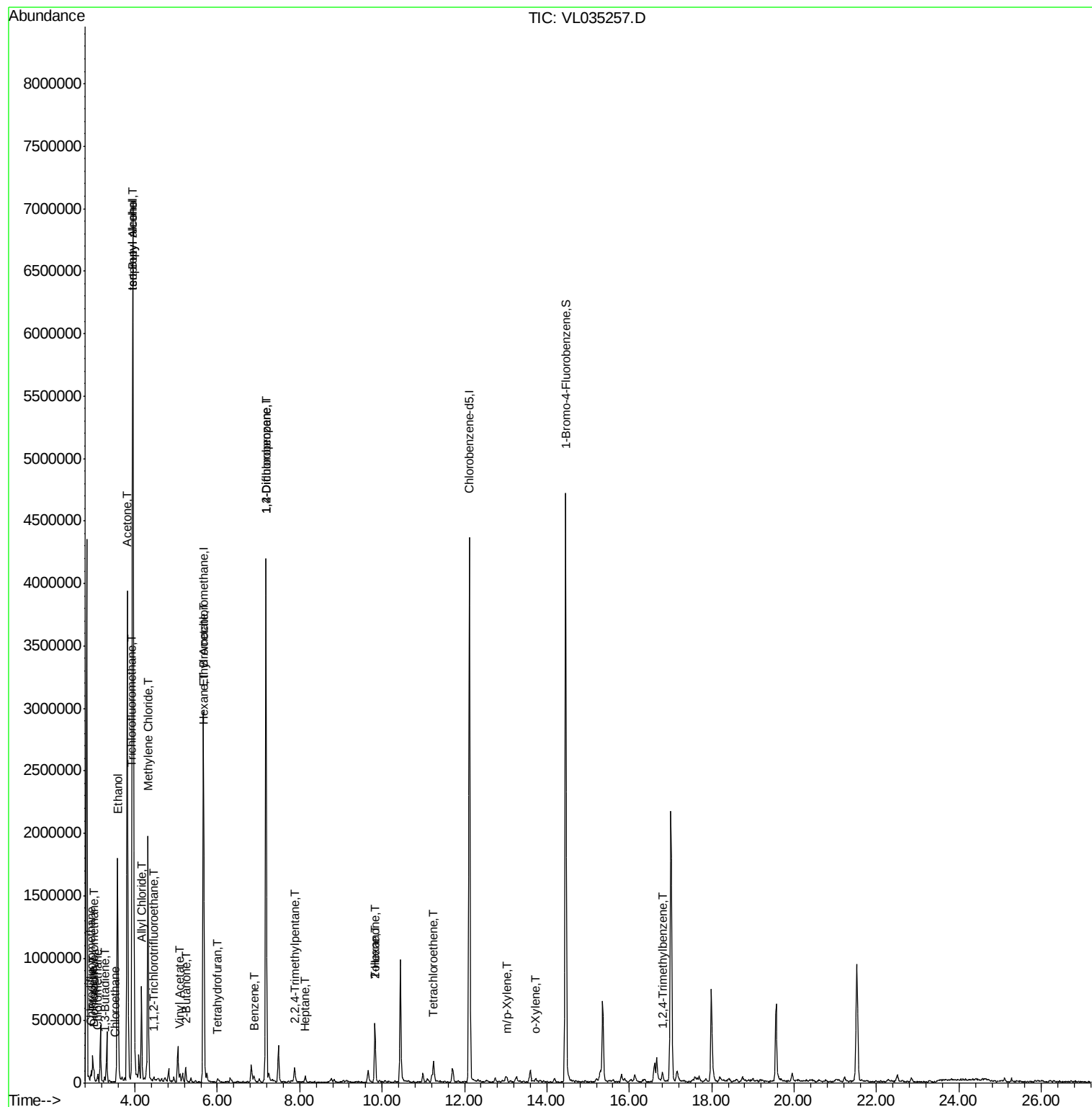
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	48235	0.350	ppbv	98
3) Chlorodifluoromethane	2.94	51	90097	0.706	ppbv #	85
4) Chloromethane	3.10	50	41334	0.575	ppbv	96
7) Chloroethane	3.52	64	946	0.035	ppbv #	43
9) Propene	2.97	41	30711	0.690	ppbv	85
10) Heptane	8.13	43	7410	0.062	ppbv #	24
11) Trichlorofluoromethane	3.92	101	54067	0.292	ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.46	101	4850	0.037	ppbv #	14
13) Ethanol	3.58	45	2119763	117.054	ppbv	96
15) Acetone	3.81	43	3856161	25.070	ppbv	98
16) 1,3-Butadiene	3.27	39	10349	0.172	ppbv #	53
17) tert-Butyl alcohol	3.94	59	385959	2.600	ppbv	95
19) Isopropyl Alcohol	3.94	45	8898734	87.721	ppbv #	97
20) Methylene Chloride	4.32	84	640957	9.154	ppbv	99
21) Allyl Chloride	4.16	41	67083	0.766	ppbv #	1
23) Vinyl Acetate	5.08	43	6412	0.041	ppbv #	1
25) Ethyl Acetate	5.67	43	214880	0.895	ppbv #	85
26) Hexane	5.68	57	251502	2.321	ppbv #	46
34) 2-Butanone	5.23	43	110456	0.789	ppbv	97
36) Benzene	6.90	78	15449	0.081	ppbv #	92
39) 1,2-Dichloropropane	7.18	63	753382	9.877	ppbv #	23
41) Tetrahydrofuran	6.02	42	2596	0.038	ppbv #	45
44) 2,2,4-Trimethylpentane	7.87	57	45978	0.136	ppbv #	33
51) 2-Hexanone	9.83	43	9925	0.065	ppbv #	30
52) Tetrachloroethene	11.26	164	13247	0.182	ppbv	95
53) Toluene	9.83	91	322891	1.589	ppbv	94
59) m/p-Xylene	13.03	91	9213	0.036	ppbv #	34
60) o-Xylene	13.73	91	9095	0.036	ppbv #	31
74) 1,2,4-Trimethylbenzene	16.80	105	14223	0.044	ppbv #	65

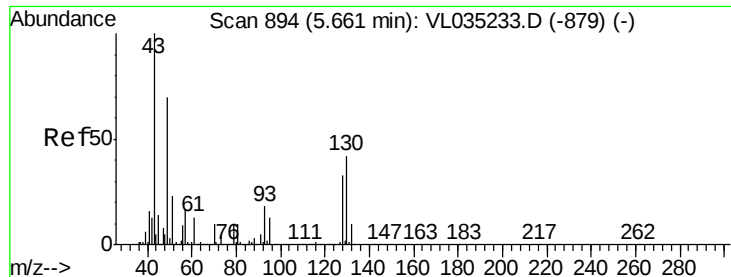
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 29 07:14:29 2020
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

Instrument :

MSVOA_L

ClientSampleId :

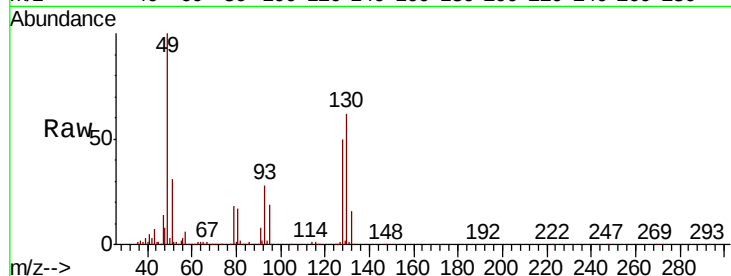
Tot Ion: 49 Resp: 1153131

Ion Ratio Lower Upper

49 100

128 48.6 24.0 72.0

130 62.6 30.7 92.1

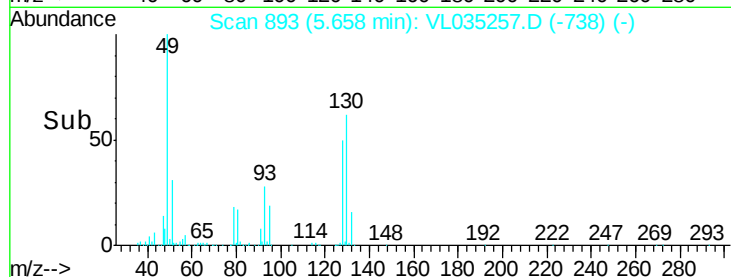


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

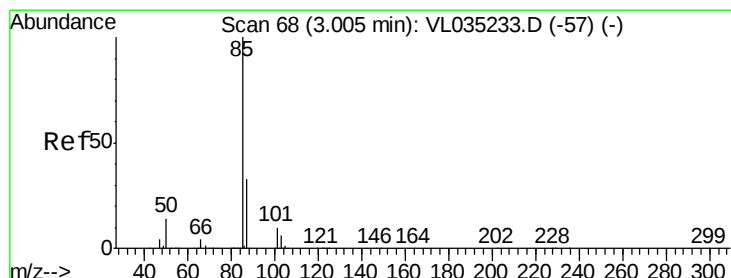
Ion 130.00 (129.70 to 130.70): VL0

Time-->



5.66

Time-->



#2

Dichlorodifluoromethane

Concen: 0.350 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035257.D

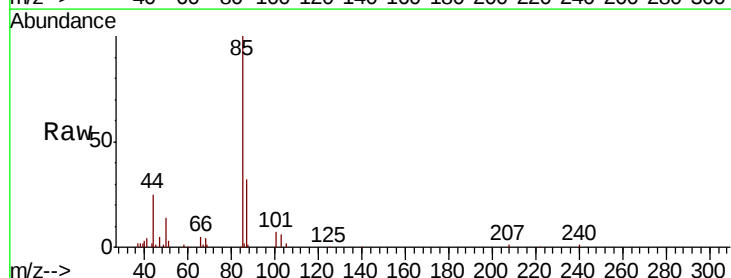
Acq: 29 Jul 2020 22:11

Tgt Ion: 85 Resp: 48235

Ion Ratio Lower Upper

85 100

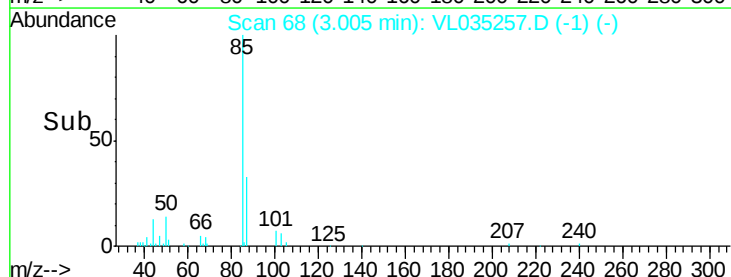
87 32.4 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

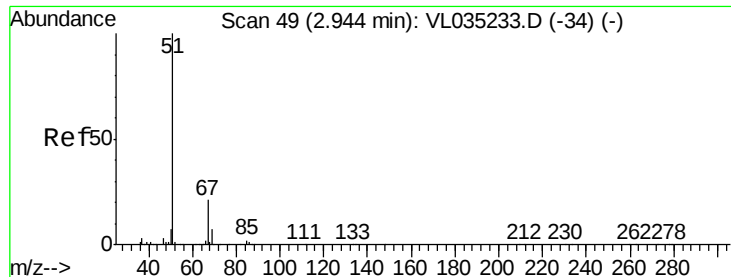
Ion 87.00 (86.70 to 87.70): VL0

Time-->



3.01

Time-->



#3

Chlorodifluoromethane

Concen: 0.706 ppbv

RT: 2.94 min Scan# 49

Delta R.T. 0.00 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

Instrument :

MSVOA_L

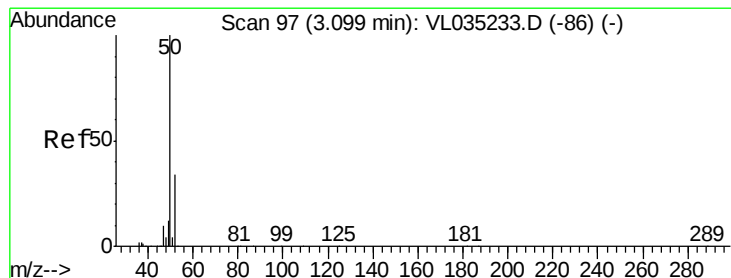
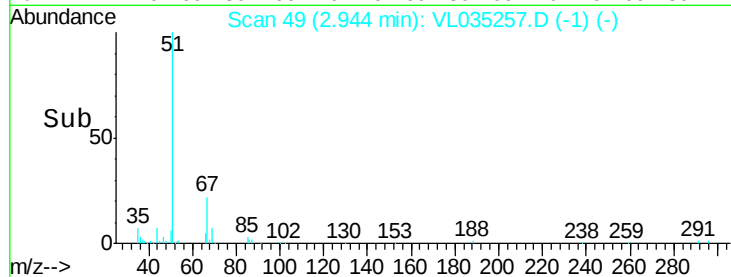
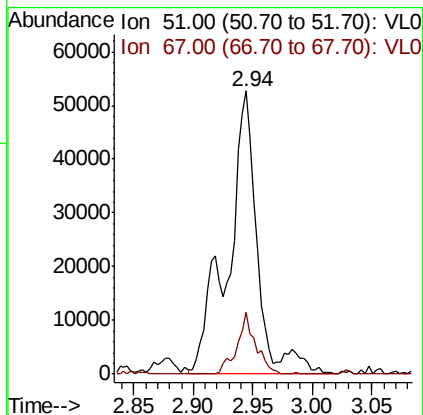
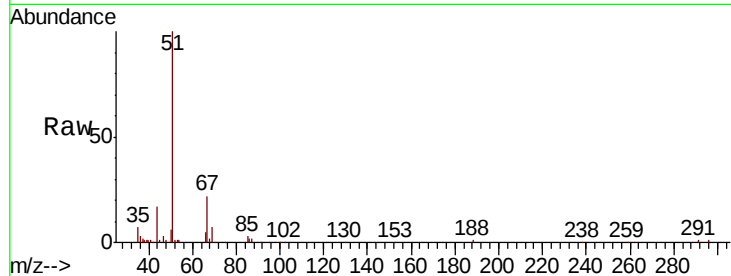
ClientSampleId :

Tot Ion: 51 Resp: 90097

Ion Ratio Lower Upper

51 100

67 13.7 16.6 25.0#



#4

Chloromethane

Concen: 0.575 ppbv

RT: 3.10 min Scan# 96

Delta R.T. -0.00 min

Lab File: VL035257.D

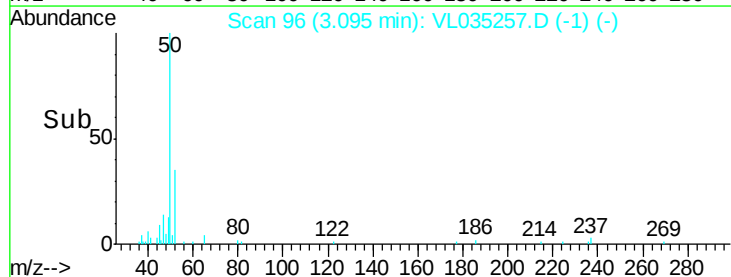
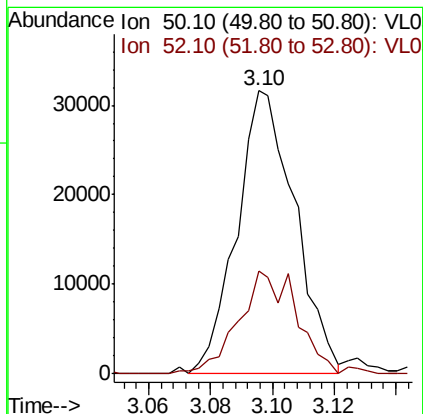
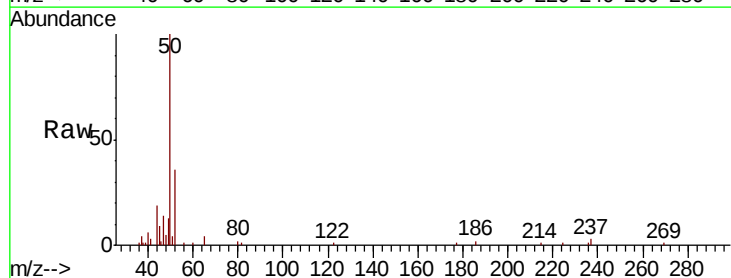
Acq: 29 Jul 2020 22:11

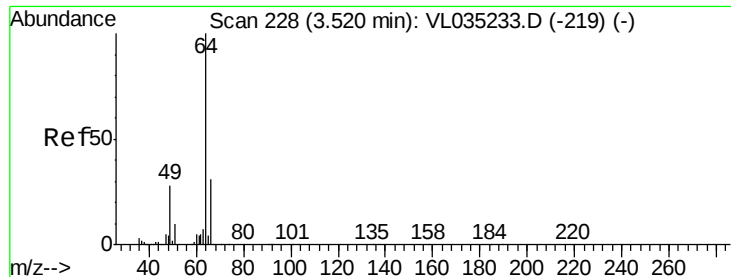
Tgt Ion: 50 Resp: 41334

Ion Ratio Lower Upper

50 100

52 36.3 27.1 40.7





#7

Chloroethane

Concen: 0.035 ppbv

RT: 3.52 min Scan# 227

Delta R.T. -0.00 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

Instrument :

MSVOA_L

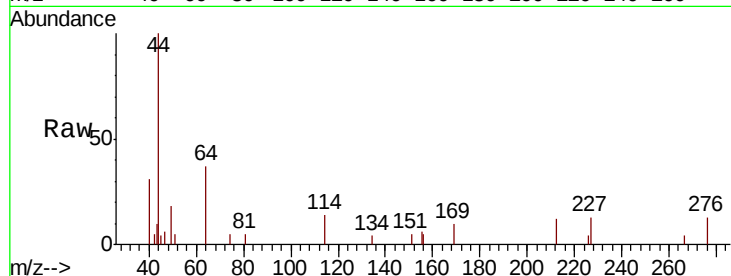
ClientSampleId :

Tot Ion: 64 Resp: 946

Ion Ratio Lower Upper

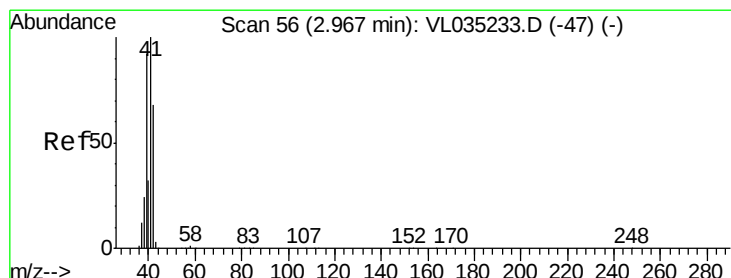
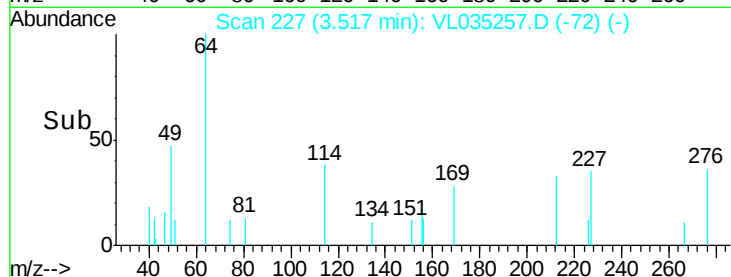
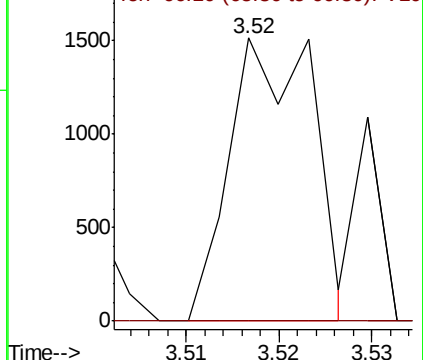
64 100

66 0.0 25.6 38.4#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 0.690 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.01 min

Lab File: VL035257.D

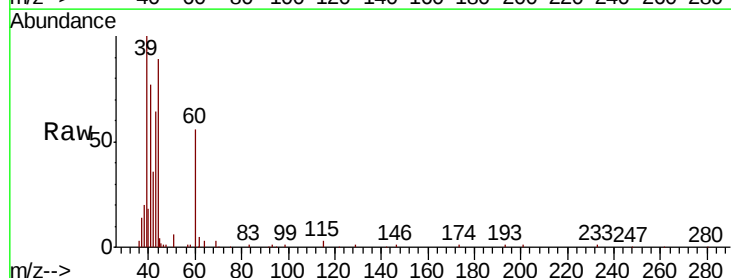
Acq: 29 Jul 2020 22:11

Tgt Ion: 41 Resp: 30711

Ion Ratio Lower Upper

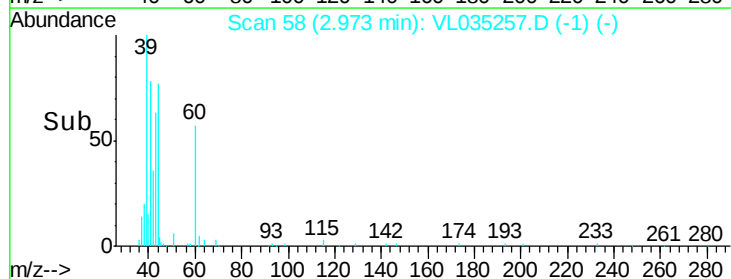
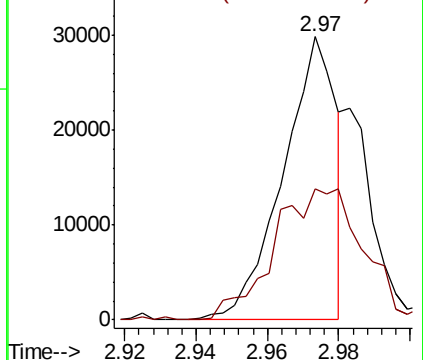
41 100

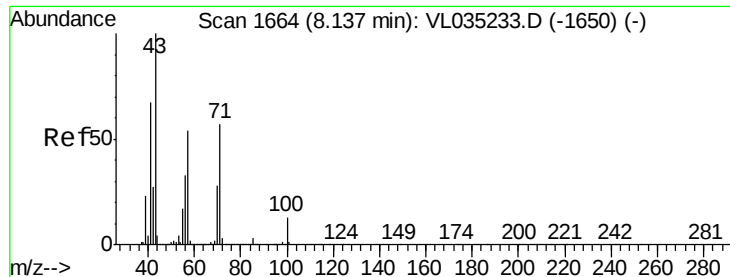
42 81.2 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

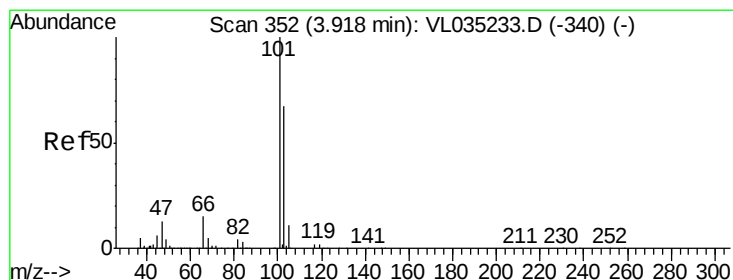
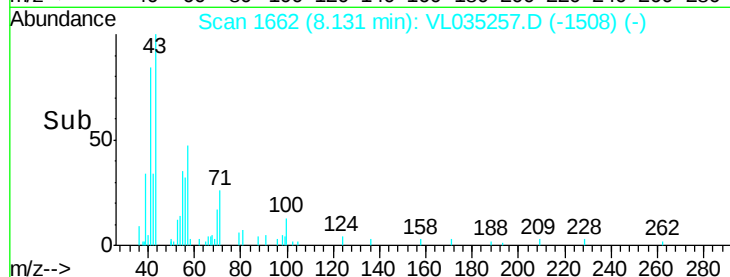
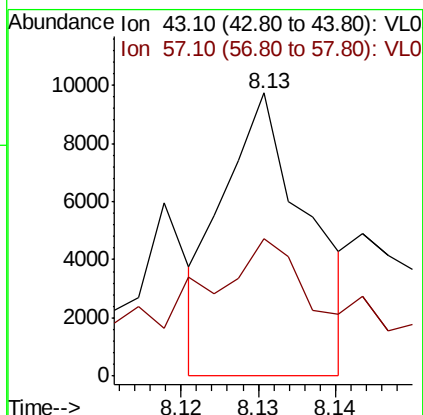
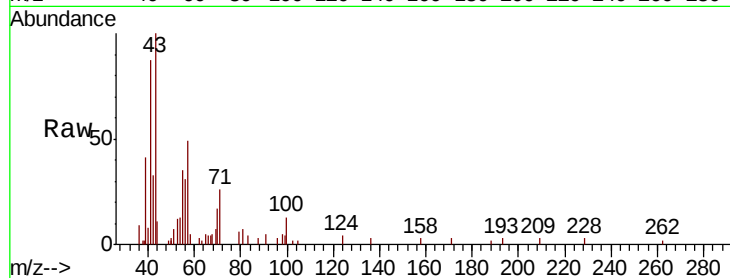




#10
 Heptane
 Concen: 0.062 ppbv
 RT: 8.13 min Scan# 1662
 Delta R.T. -0.01 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

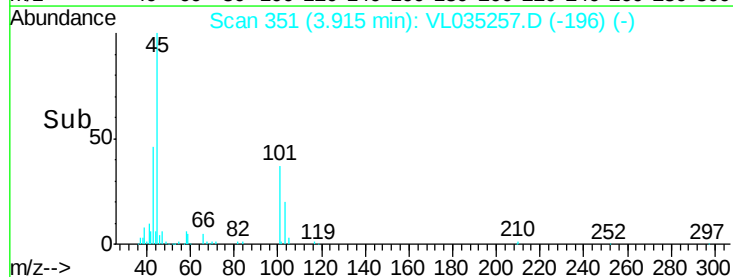
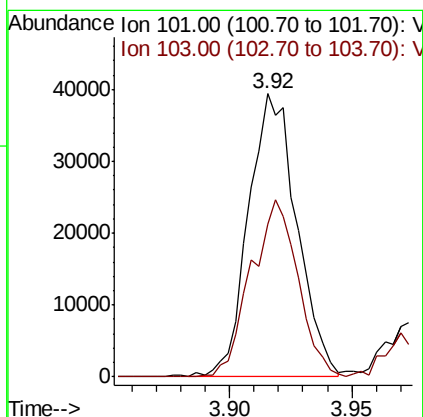
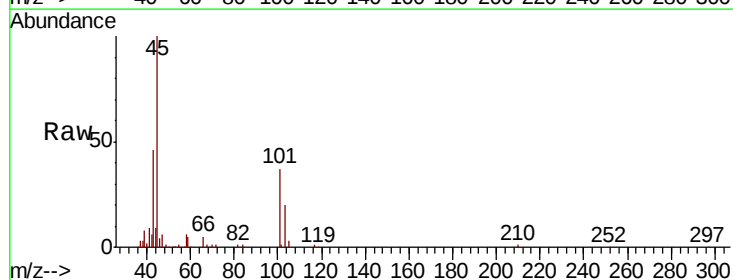
Instrument :
 MSVOA_L
 ClientSampleId :

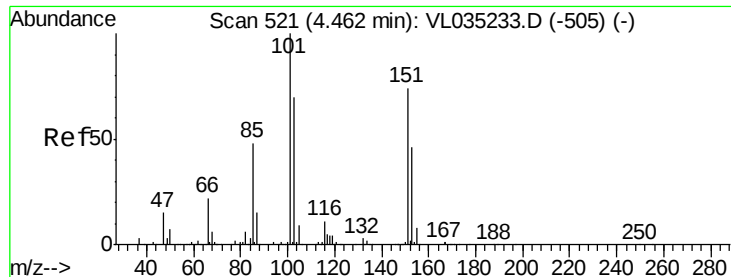
Tot Ion: 43 Resp: 7410
 Ion Ratio Lower Upper
 43 100
 57 108.0 43.0 64.4#



#11
 Trichlorofluoromethane
 Concen: 0.292 ppbv
 RT: 3.92 min Scan# 351
 Delta R.T. -0.00 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

Tgt Ion:101 Resp: 54067
 Ion Ratio Lower Upper
 101 100
 103 54.1 53.4 80.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.037 ppbv

RT: 4.46 min Scan# 521

Delta R.T. 0.00 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

Instrument :

MSVOA_L

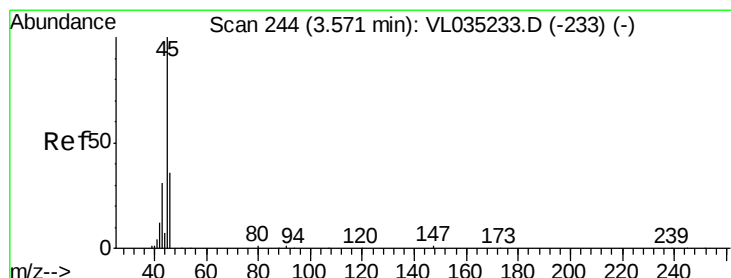
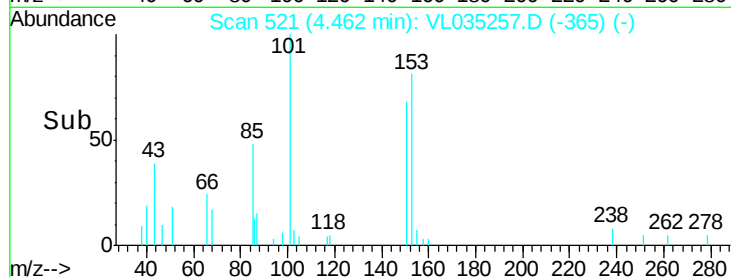
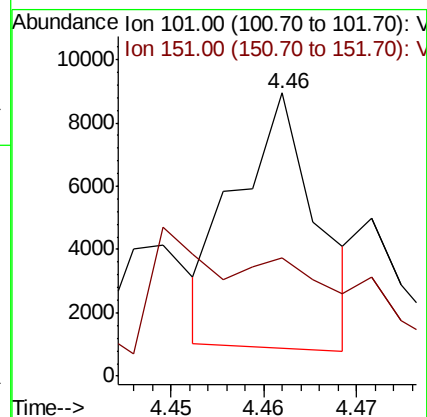
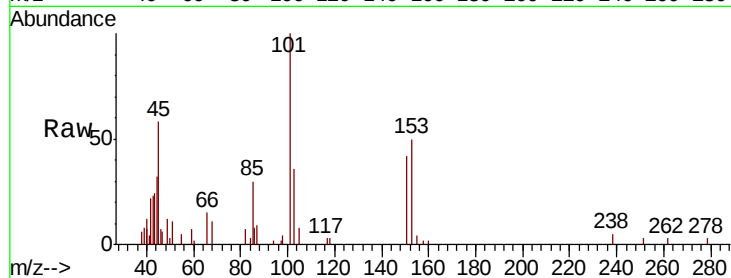
ClientSampleId :

Tot Ion:101 Resp: 4850

Ion Ratio Lower Upper

101 100

151 0.0 56.6 85.0#



#13

Ethanol

Concen: 117.054 ppbv

RT: 3.58 min Scan# 246

Delta R.T. 0.01 min

Lab File: VL035257.D

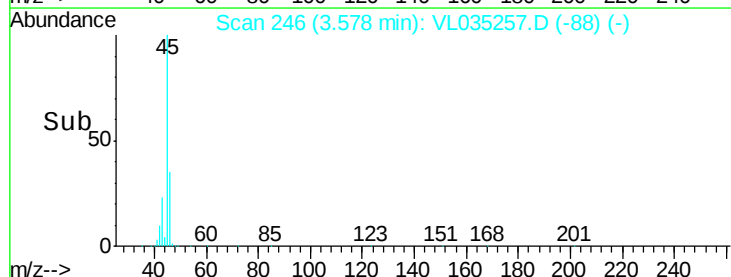
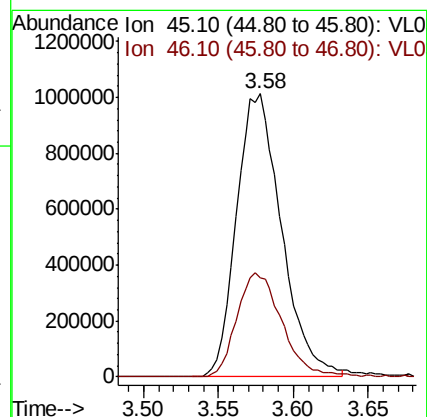
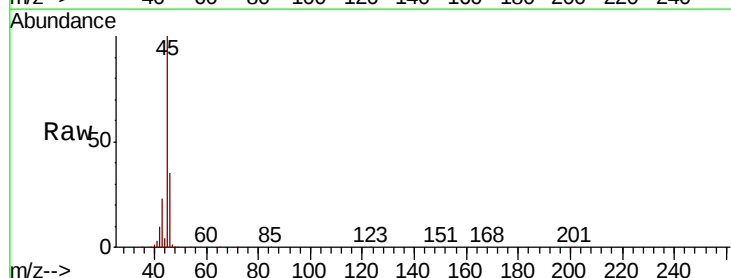
Acq: 29 Jul 2020 22:11

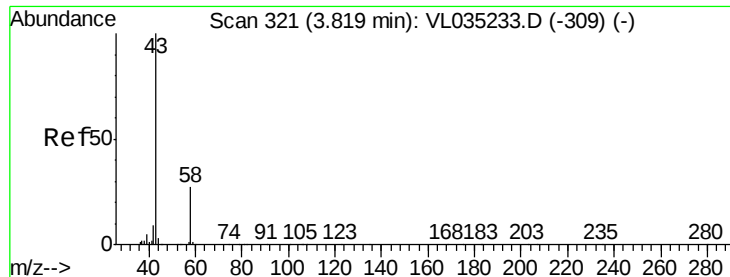
Tgt Ion: 45 Resp: 2119763

Ion Ratio Lower Upper

45 100

46 37.2 15.8 63.4





#15

Acetone

Concen: 25.070 ppbv

RT: 3.81 min Scan# 319

Delta R.T. -0.01 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

Instrument :

MSVOA_L

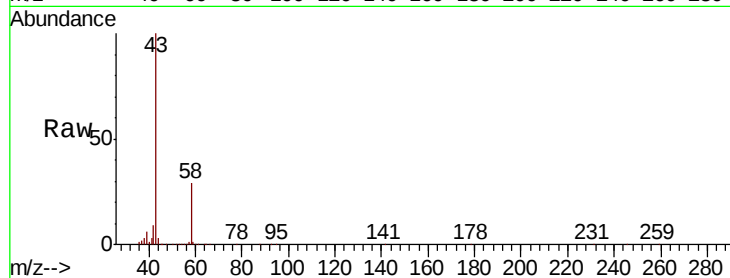
ClientSampleId :

Tot Ion: 43 Resp: 3856161

Ion Ratio Lower Upper

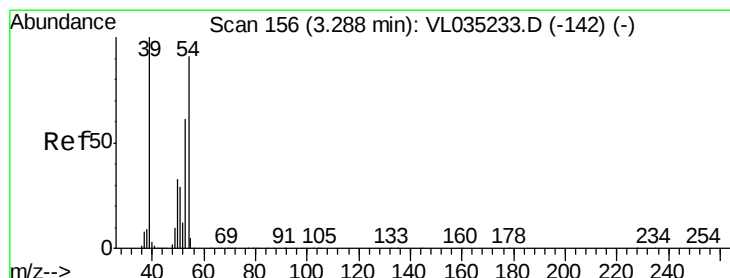
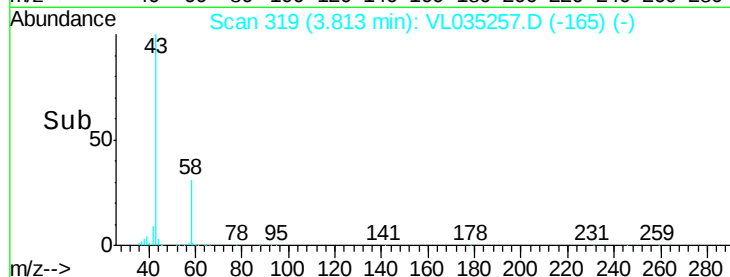
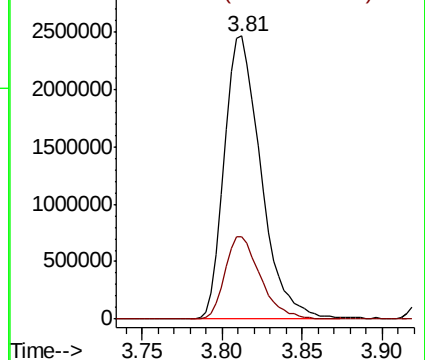
43 100

58 28.5 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: 0.172 ppbv

RT: 3.27 min Scan# 149

Delta R.T. -0.02 min

Lab File: VL035257.D

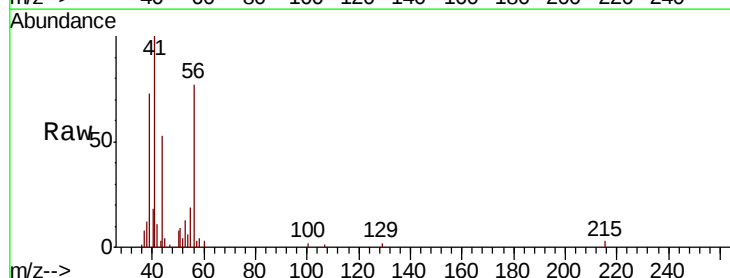
Acq: 29 Jul 2020 22:11

Tgt Ion: 39 Resp: 10349

Ion Ratio Lower Upper

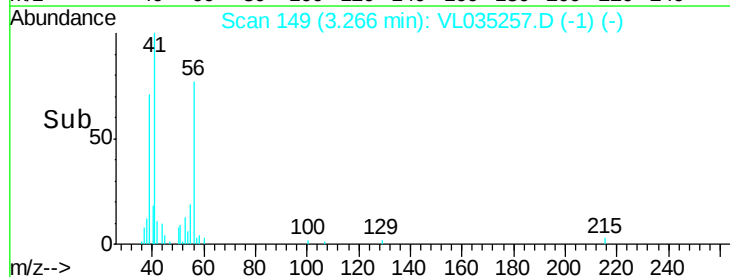
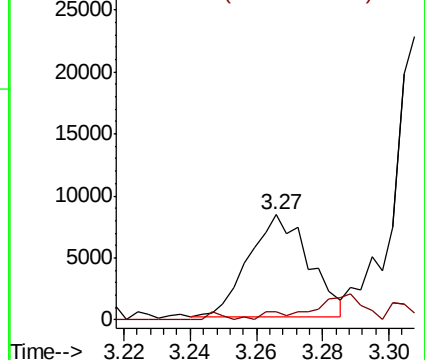
39 100

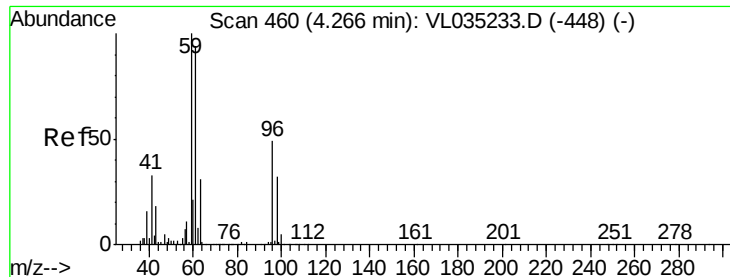
54 42.0 68.2 102.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



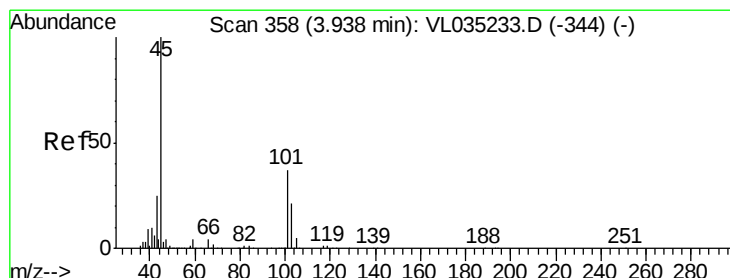
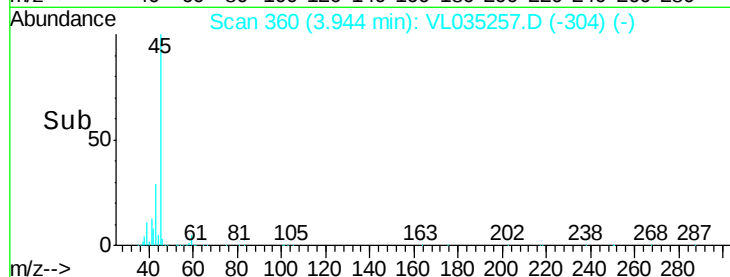
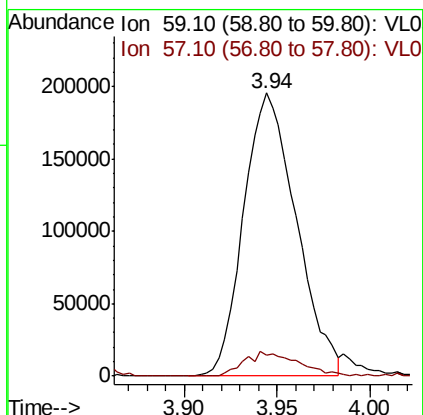
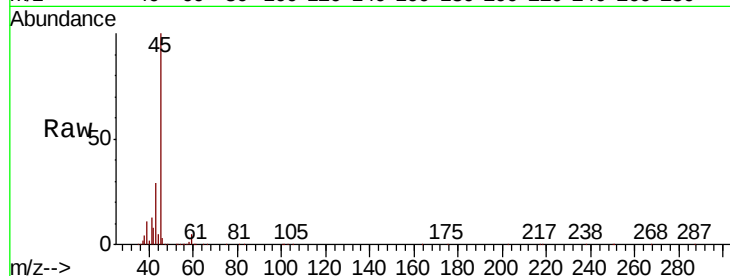


#17

tert-Butyl alcohol
 Concen: 2.600 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.32 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

Instrument :
 MSVOA_L
 ClientSampleId :

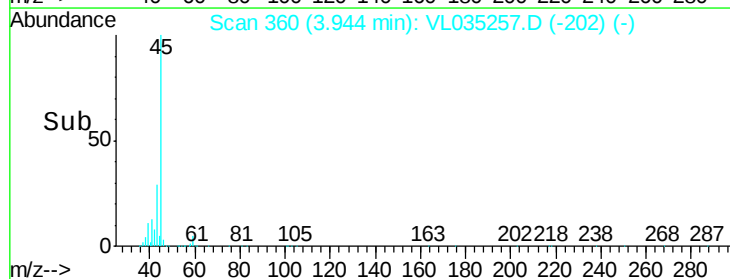
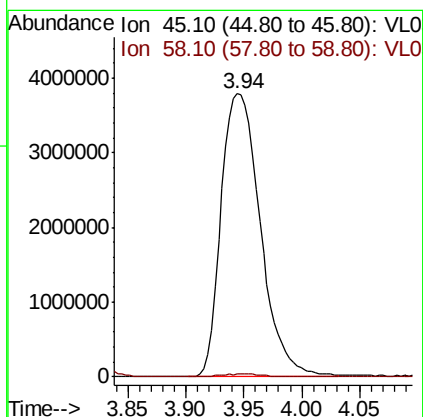
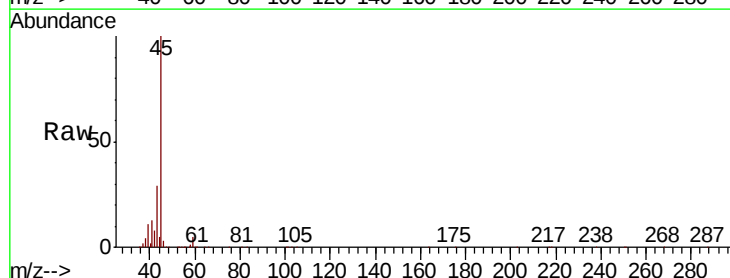
Tot Ion: 59 Resp: 385959
 Ion Ratio Lower Upper
 59 100
 57 9.0 8.6 12.8

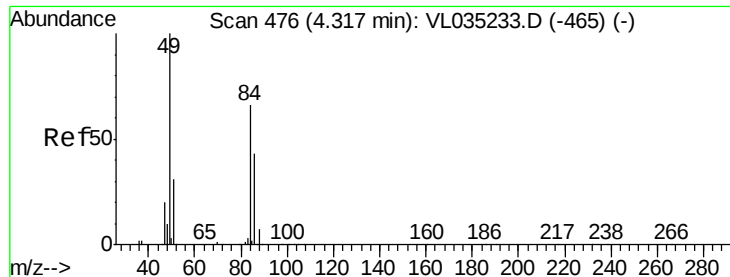


#19

Isopropyl Alcohol
 Concen: 87.721 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.01 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

Tgt Ion: 45 Resp: 8898734
 Ion Ratio Lower Upper
 45 100
 58 1.3 1.9 2.9#

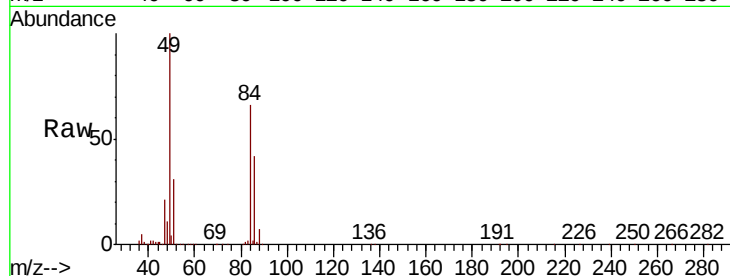




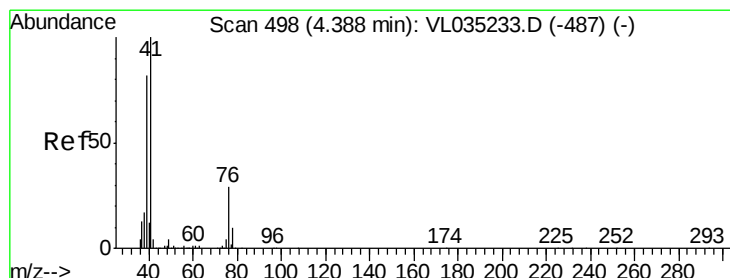
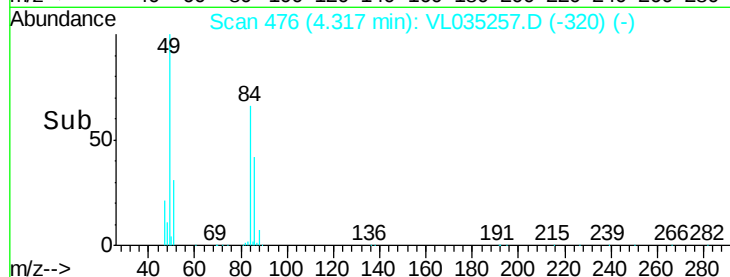
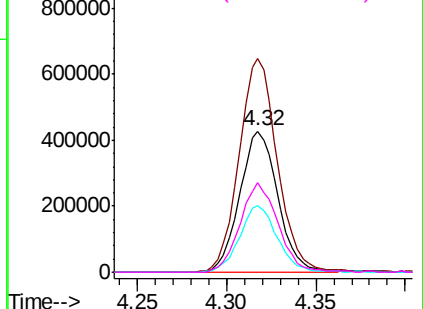
#20
Methylene Chloride
Concen: 9.154 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL035257.D
Acq: 29 Jul 2020 22:11

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	84	Resp:	640957
Ion	Ratio	Lower	Upper
84	100		
49	151.1	121.0	181.4
51	47.3	37.7	56.5
86	63.3	52.2	78.4

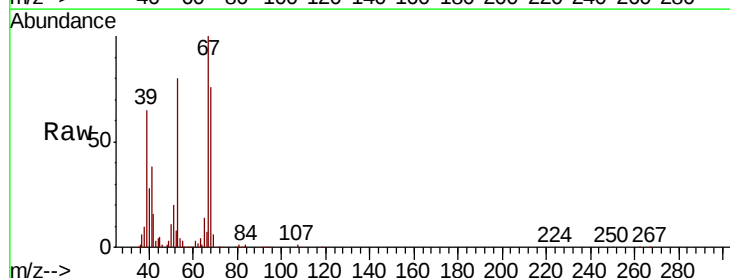


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

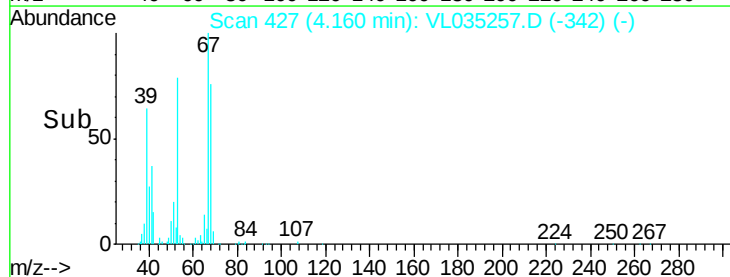
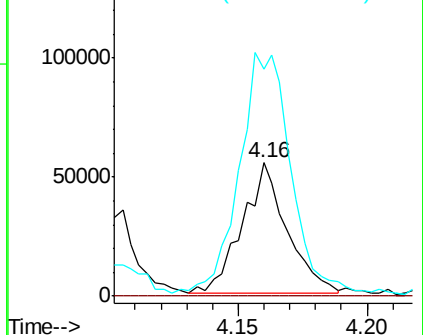


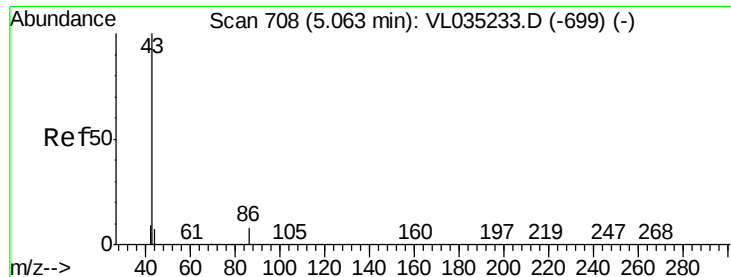
#21
Allyl Chloride
Concen: 0.766 ppbv
RT: 4.16 min Scan# 427
Delta R.T. -0.23 min
Lab File: VL035257.D
Acq: 29 Jul 2020 22:11

Tgt Ion:	41	Resp:	67083
Ion	Ratio	Lower	Upper
41	100		
76	0.3	24.4	36.6#
39	211.5	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





#23

Vinyl Acetate

Concen: 0.041 ppbv

RT: 5.08 min Scan# 713

Delta R.T. 0.02 min

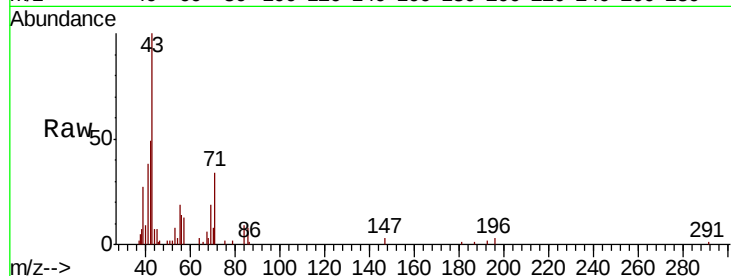
Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

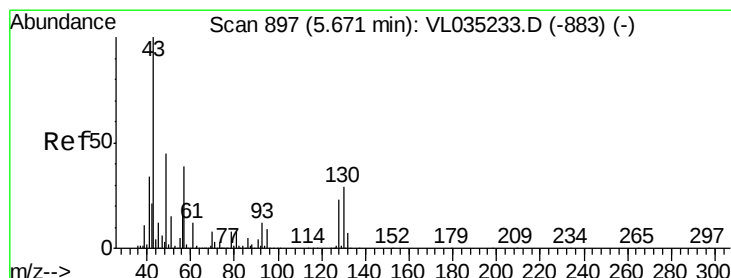
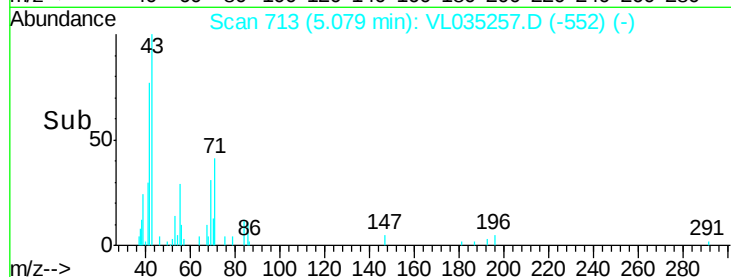
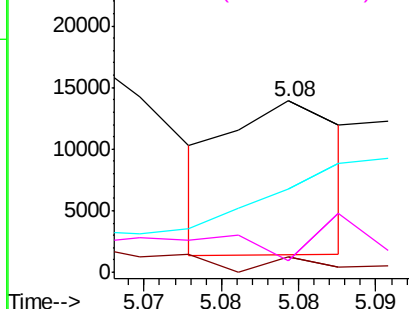
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 43 Resp: 6412

Ion	Ratio	Lower	Upper
43	100		
86	22.3	6.2	9.2#
42	88.5	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



#25

Ethyl Acetate

Concen: 0.895 ppbv

RT: 5.67 min Scan# 898

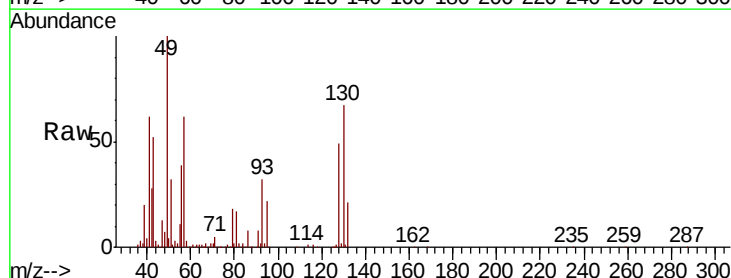
Delta R.T. 0.00 min

Lab File: VL035257.D

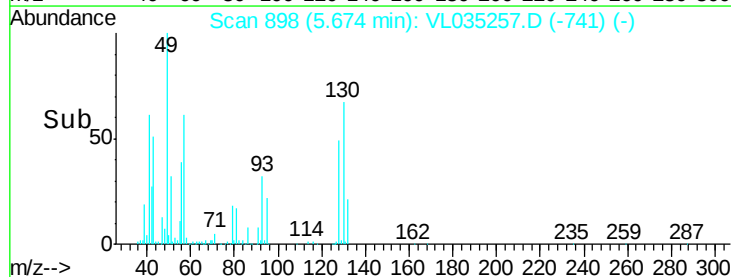
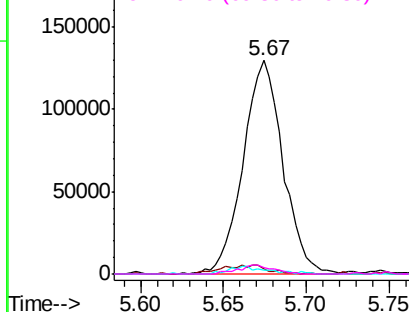
Acq: 29 Jul 2020 22:11

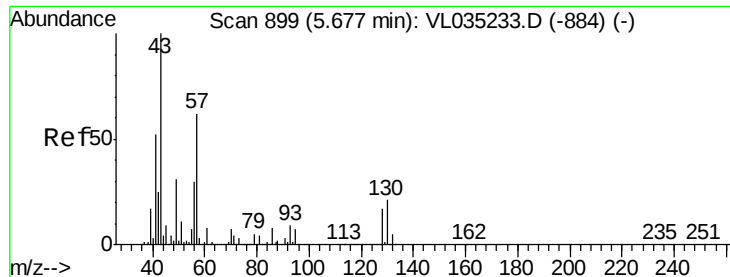
Tgt Ion: 43 Resp: 214880

Ion	Ratio	Lower	Upper
43	100		
45	5.3	8.5	12.7#
61	3.5	8.1	12.1#
70	3.7	6.2	9.4#



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

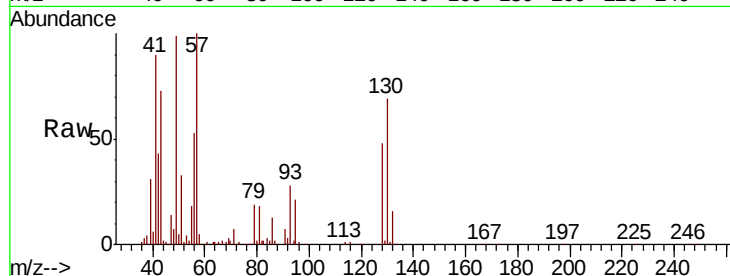




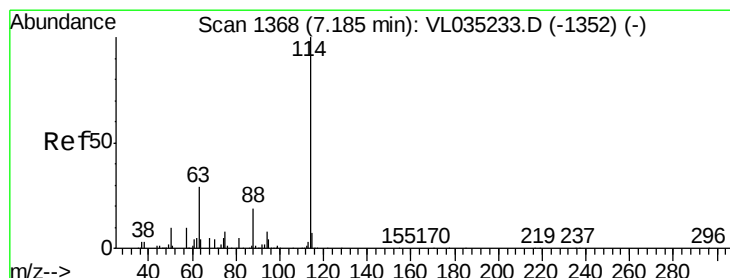
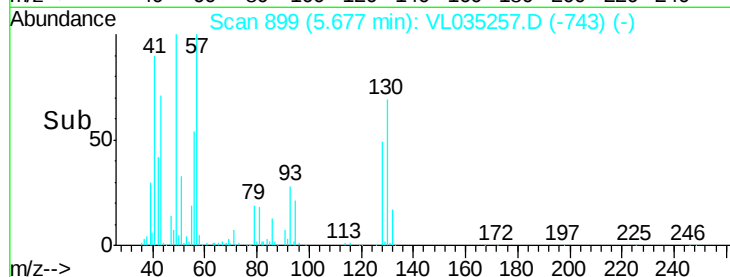
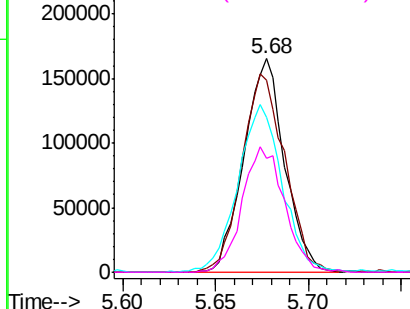
#26
Hexane
Concen: 2.321 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL035257.D
Acq: 29 Jul 2020 22:11

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 251502
Ion Ratio Lower Upper
57 100
41 98.9 73.9 110.9
43 86.0 177.6 266.4#
56 61.2 43.0 64.4

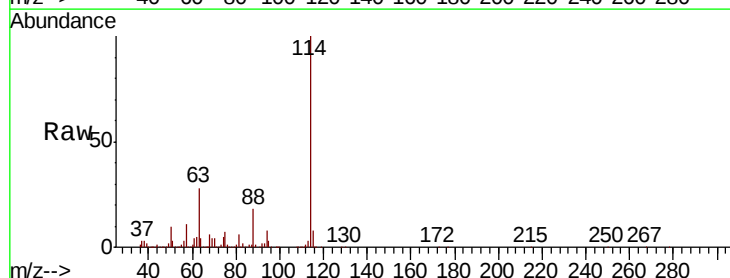


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

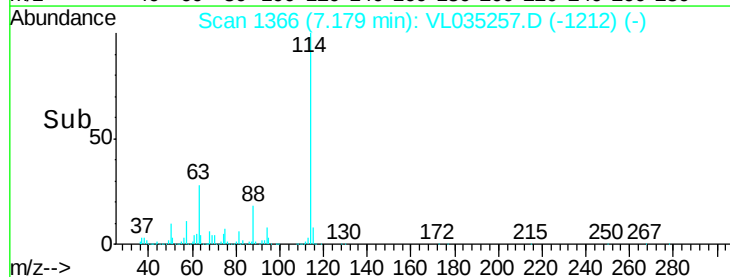
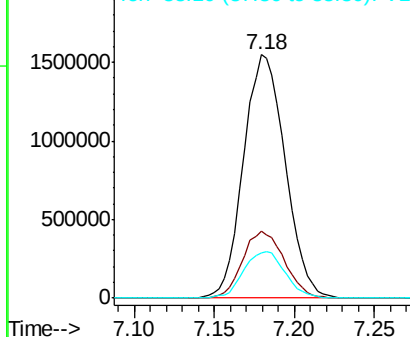


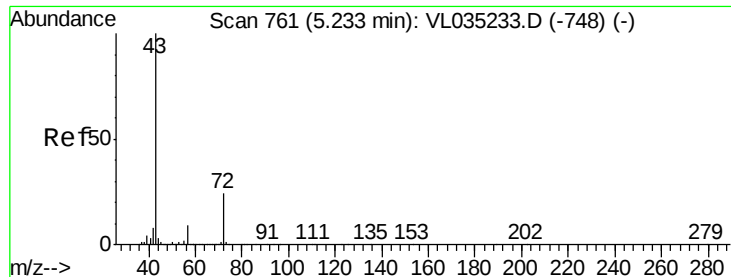
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL035257.D
Acq: 29 Jul 2020 22:11

Tgt Ion:114 Resp: 2750819
Ion Ratio Lower Upper
114 100
63 27.4 22.2 33.2
88 19.2 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

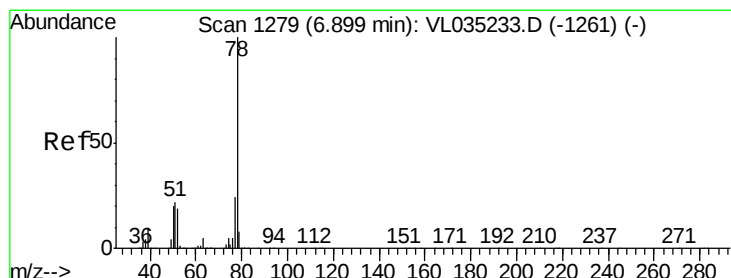
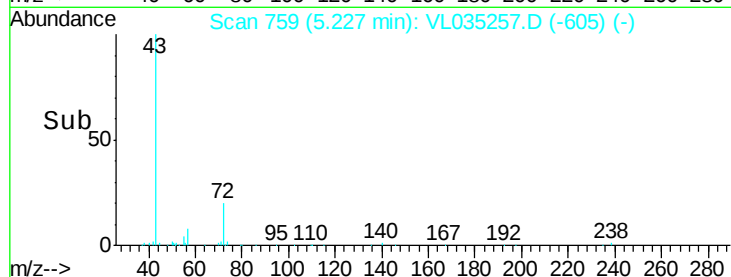
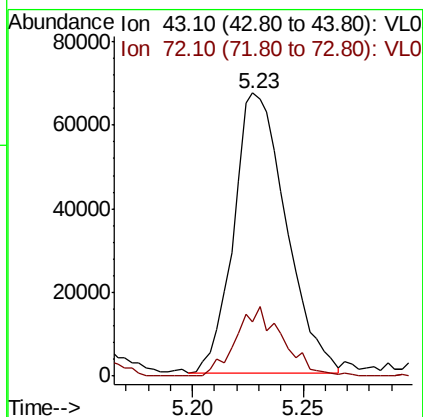
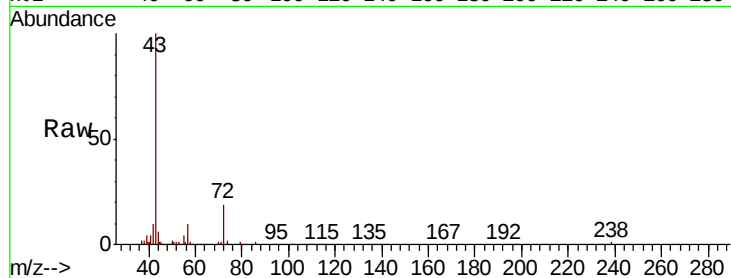




#34
 2-Butanone
 Concen: 0.789 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.01 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

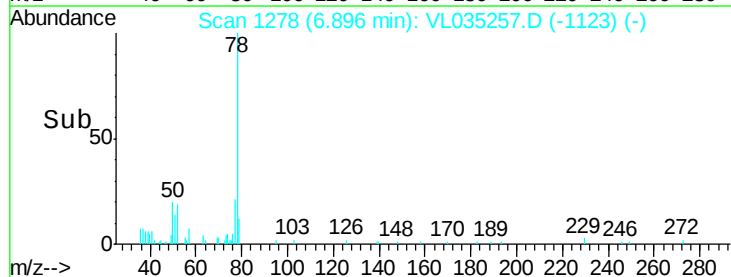
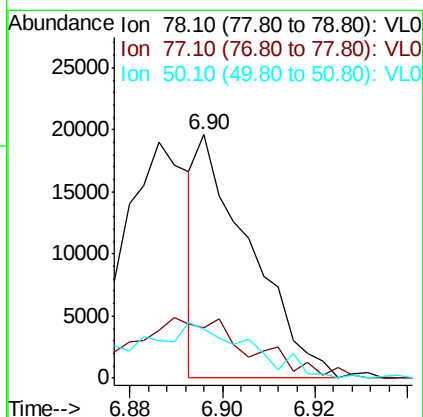
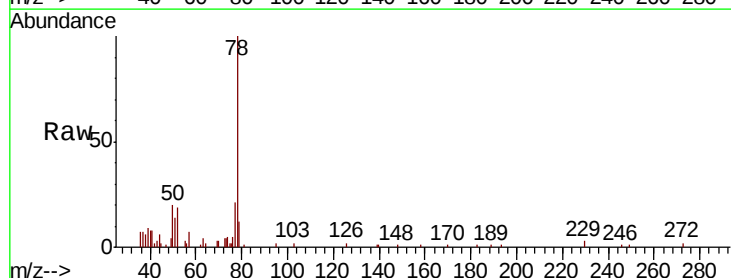
Instrument :
 MSVOA_L
 ClientSampleId :

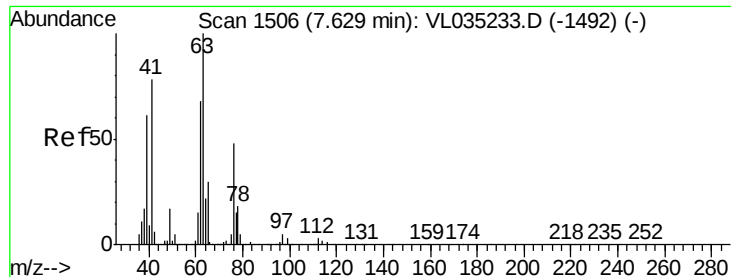
Tot Ion: 43 Resp: 110456
 Ion Ratio Lower Upper
 43 100
 72 22.4 19.2 28.8



#36
 Benzene
 Concen: 0.081 ppbv
 RT: 6.90 min Scan# 1278
 Delta R.T. -0.00 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

Tgt Ion: 78 Resp: 15449
 Ion Ratio Lower Upper
 78 100
 77 16.4 18.9 28.3#
 50 20.4 16.1 24.1





#39

1,2-Dichloropropane

Concen: 9.877 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.45 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

Instrument :

MSVOA_L

ClientSampleId :

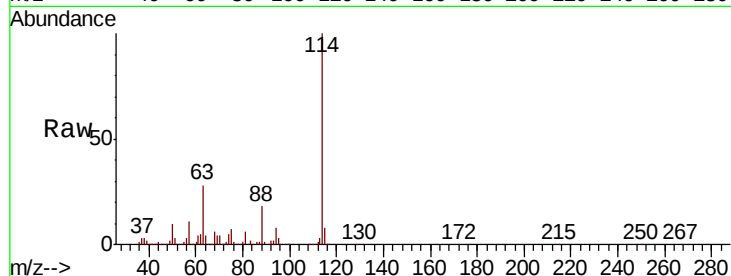
Tot Ion: 63 Resp: 753382

Ion Ratio Lower Upper

63 100

41 0.0 62.2 93.4#

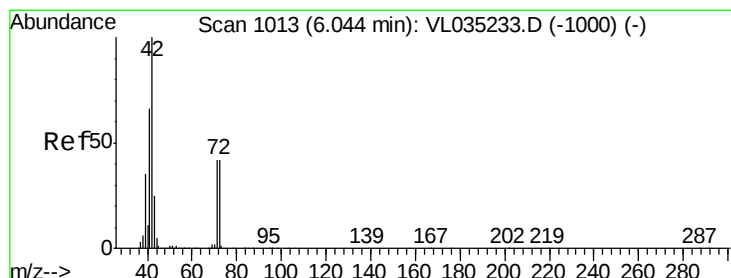
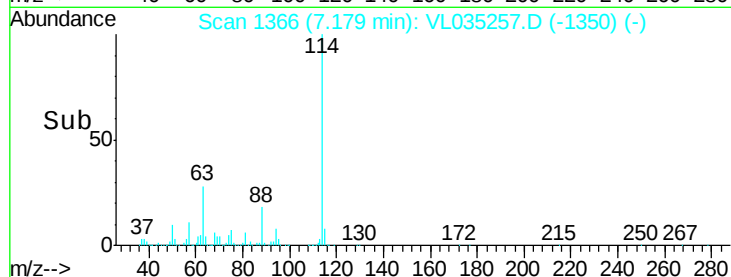
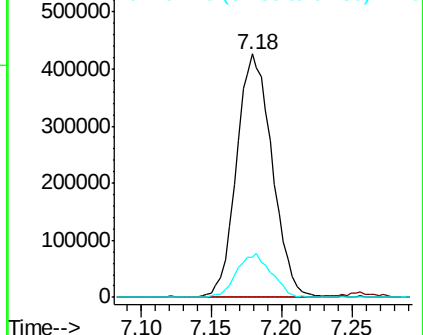
62 16.7 54.2 81.2#



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



#41

Tetrahydrofuran

Concen: 0.038 ppbv

RT: 6.02 min Scan# 1005

Delta R.T. -0.03 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

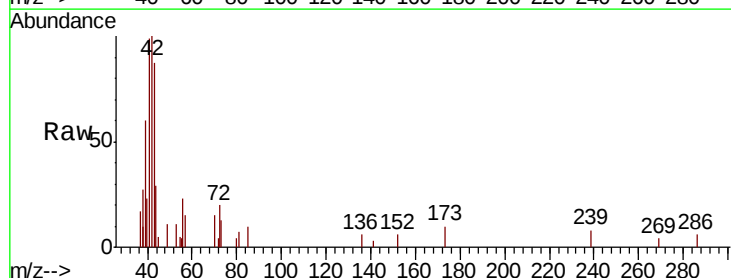
Tgt Ion: 42 Resp: 2596

Ion Ratio Lower Upper

42 100

72 70.6 34.2 51.2#

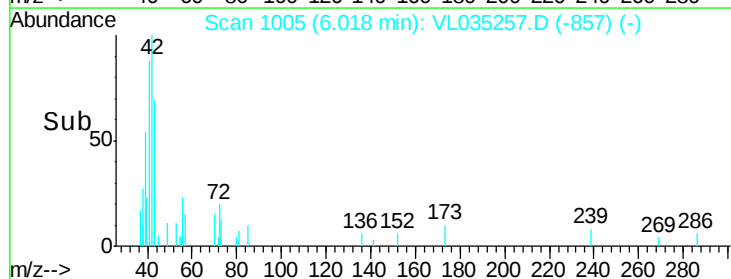
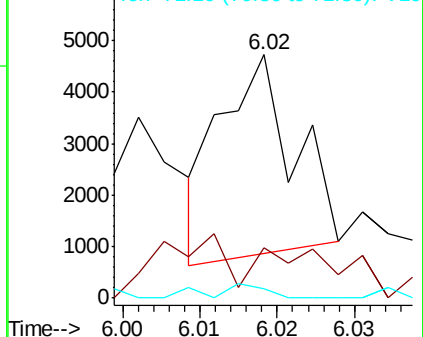
71 0.0 33.2 49.8#

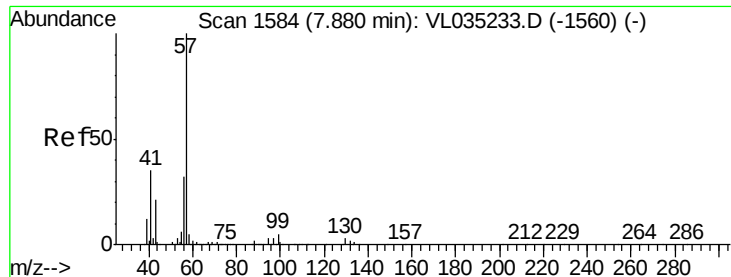


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.136 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. -0.01 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

Instrument :

MSVOA_L

ClientSampled :

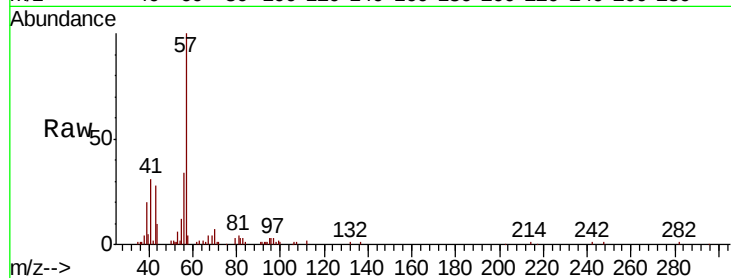
Tot Ion: 57 Resp: 45978

Ion Ratio Lower Upper

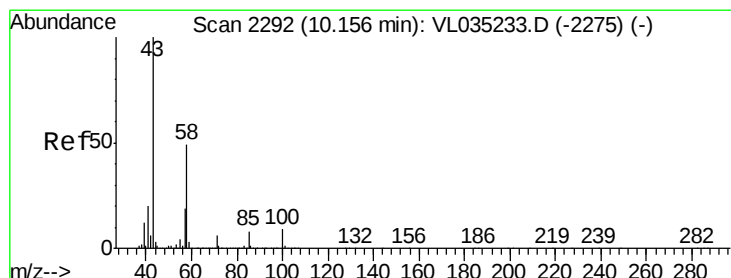
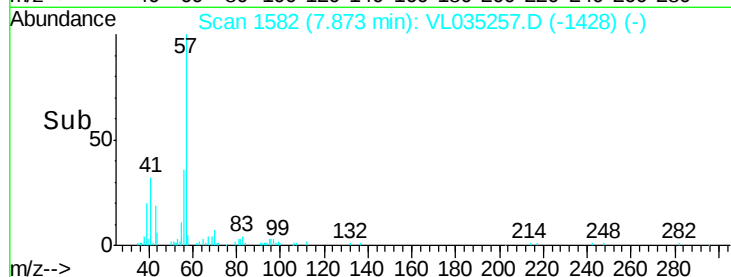
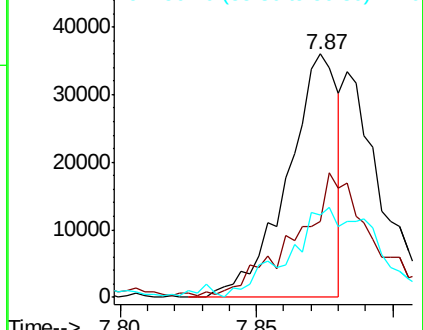
57 100

41 75.0 27.0 40.4#

56 66.8 25.6 38.4#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#51

2-Hexanone

Concen: 0.065 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.33 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

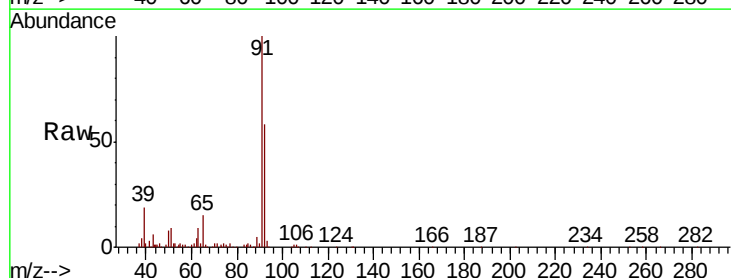
Tgt Ion: 43 Resp: 9925

Ion Ratio Lower Upper

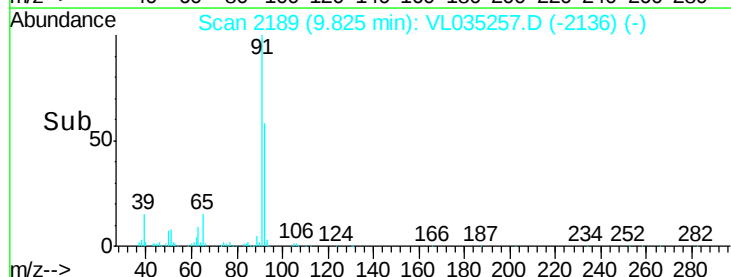
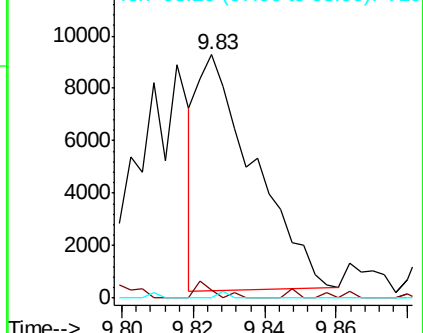
43 100

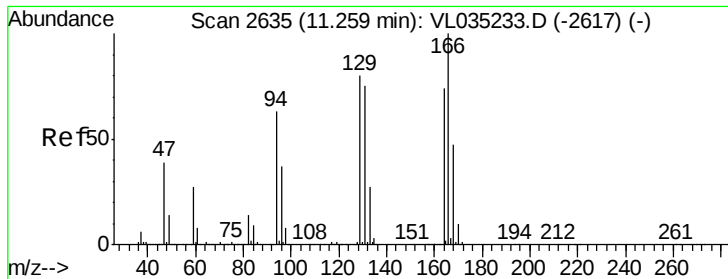
58 0.0 38.8 58.2#

98 1.4 0.6 0.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

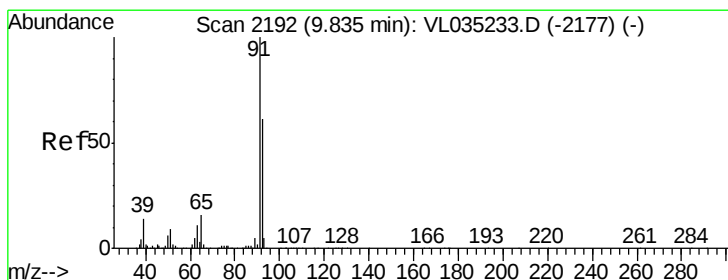
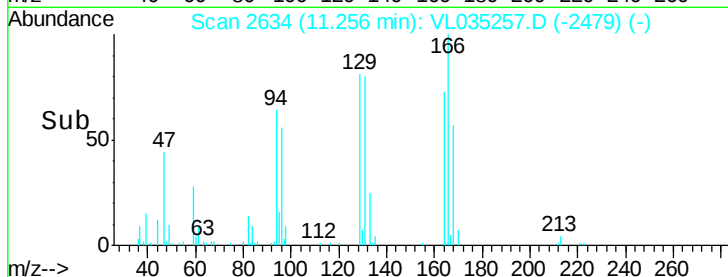
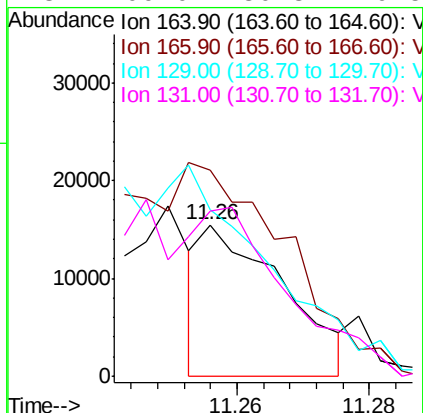
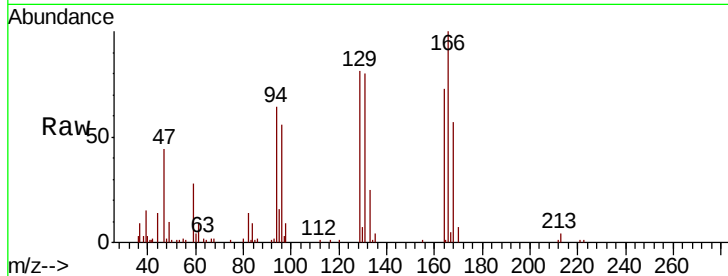




#52
Tetrachloroethene
Concen: 0.182 ppbv
RT: 11.26 min Scan# 2634
Delta R.T. -0.00 min
Lab File: VL035257.D
Acq: 29 Jul 2020 22:11

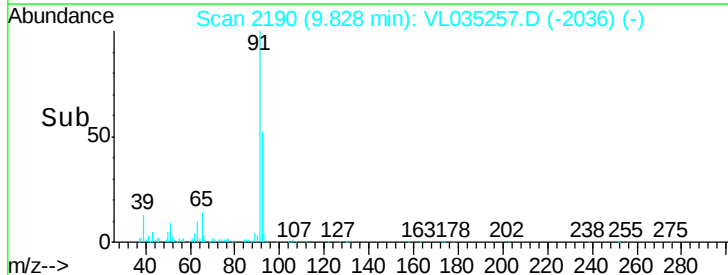
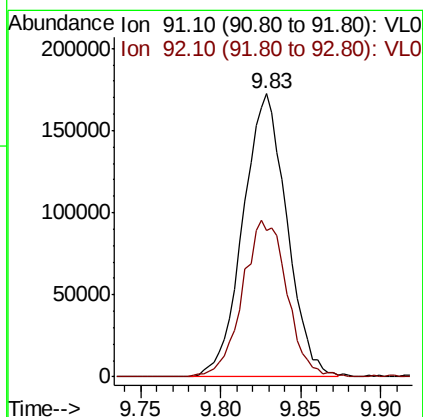
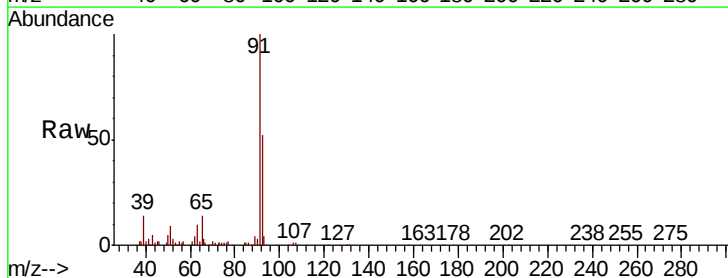
Instrument :
MSVOA_L
ClientSampled :

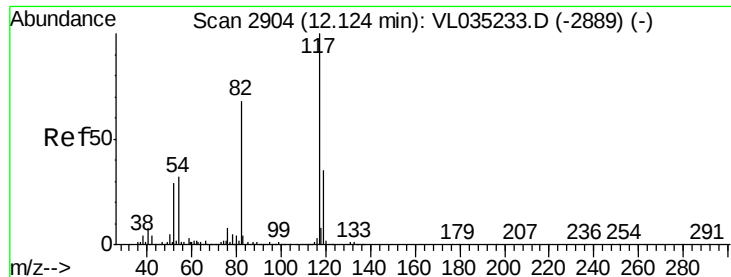
Tot Ion:164 Resp: 13247
Ion Ratio Lower Upper
164 100
166 138.2 107.5 161.3
129 113.2 86.0 129.0
131 109.0 80.3 120.5



#53
Toluene
Concen: 1.589 ppbv
RT: 9.83 min Scan# 2190
Delta R.T. -0.01 min
Lab File: VL035257.D
Acq: 29 Jul 2020 22:11

Tgt Ion: 91 Resp: 322891
Ion Ratio Lower Upper
91 100
92 56.2 48.5 72.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. -0.01 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

Instrument :

MSVOA_L

ClientSampleId :

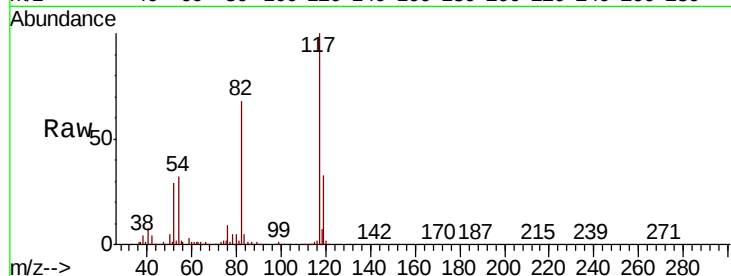
Tot Ion:117 Resp: 2575677

Ion Ratio Lower Upper

117 100

82 68.5 52.4 78.6

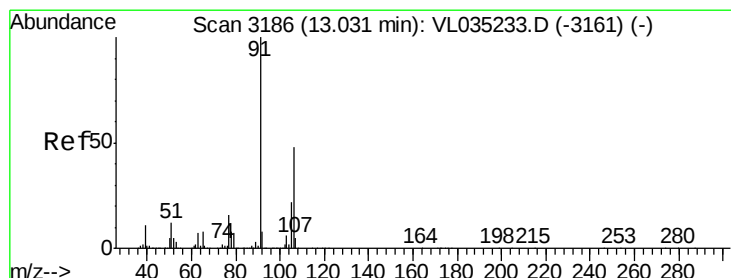
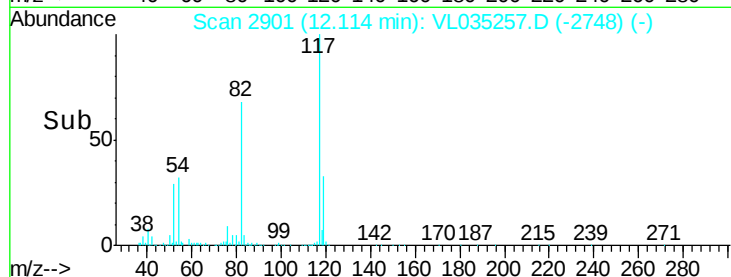
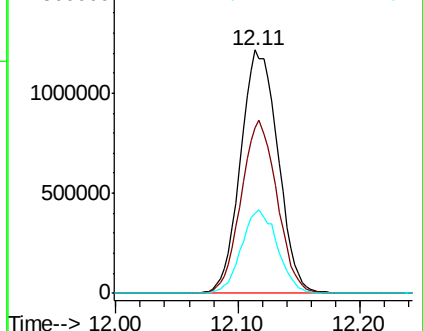
119 33.0 24.6 36.8



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#59

m/p-Xylene

Concen: 0.036 ppbv

RT: 13.03 min Scan# 3185

Delta R.T. -0.00 min

Lab File: VL035257.D

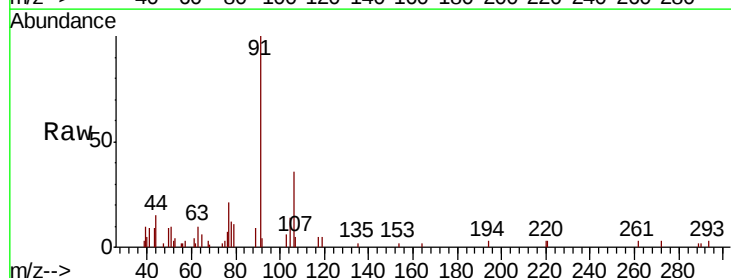
Acq: 29 Jul 2020 22:11

Tgt Ion: 91 Resp: 9213

Ion Ratio Lower Upper

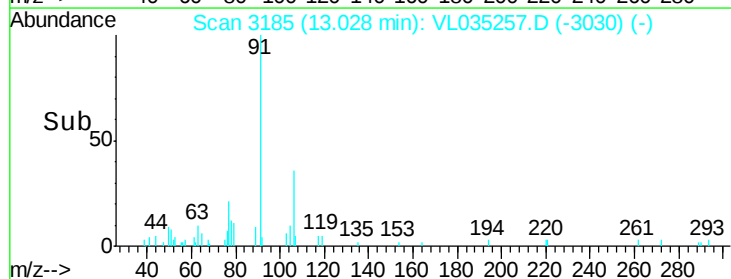
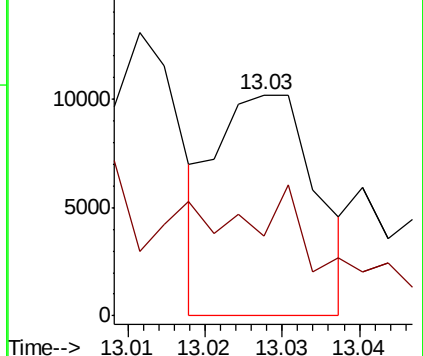
91 100

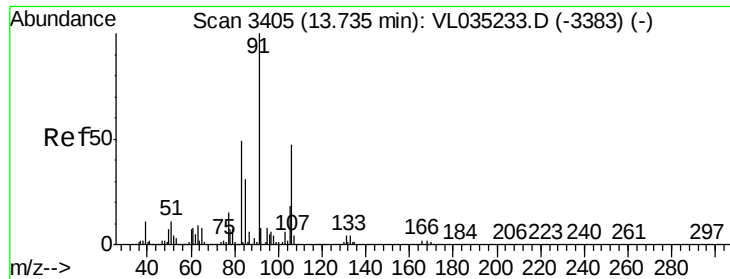
106 90.4 37.2 55.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

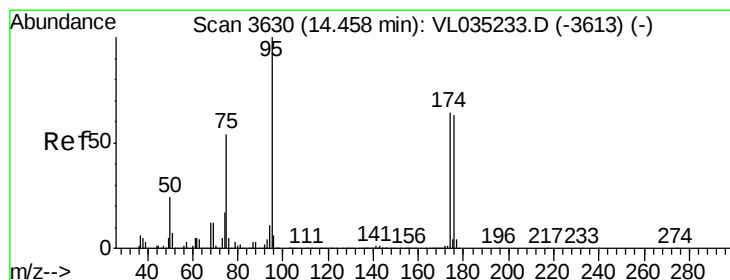
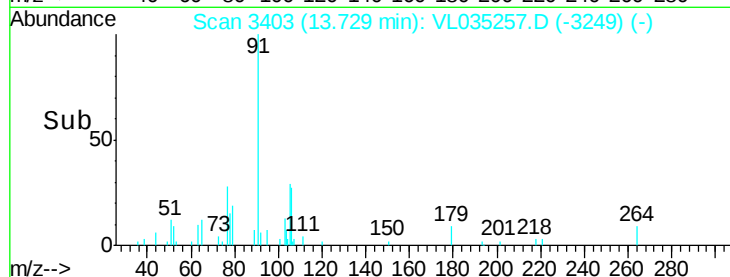
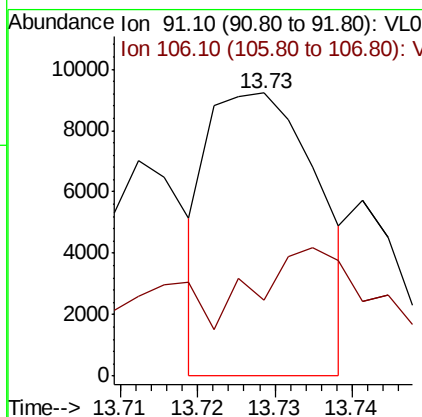
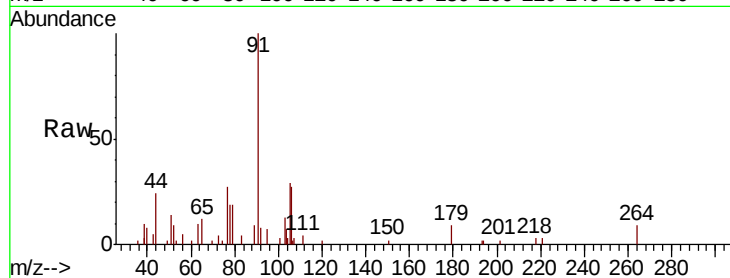




#60
o-Xylene
Concen: 0.036 ppbv
RT: 13.73 min Scan# 3403
Delta R.T. -0.01 min
Lab File: VL035257.D
Acq: 29 Jul 2020 22:11

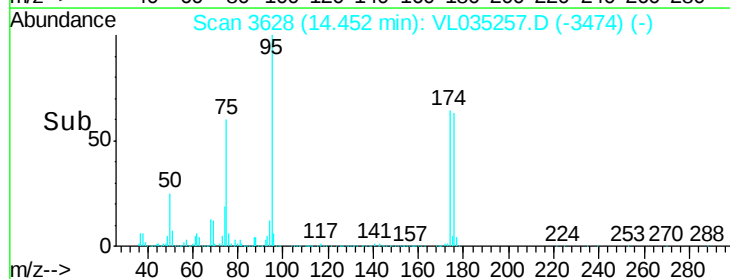
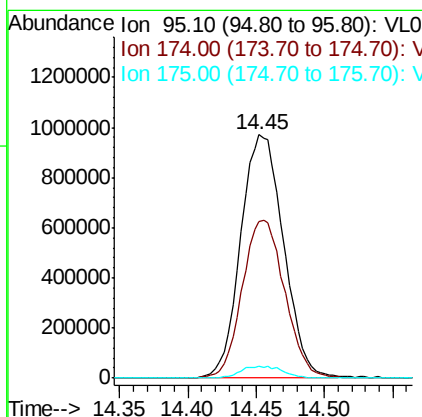
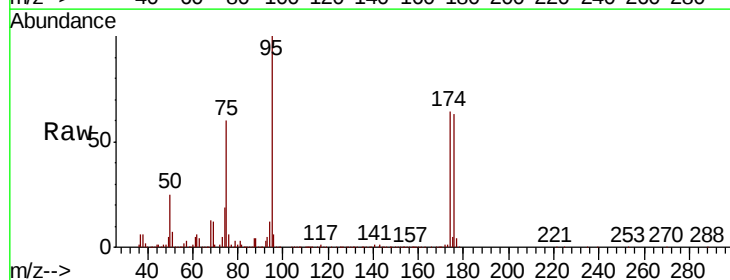
Instrument :
MSVOA_L
ClientSampled :

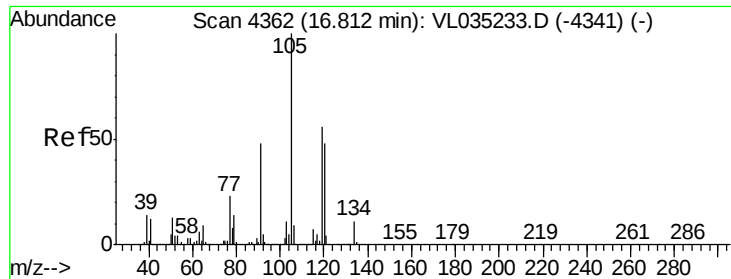
Tot Ion: 91 Resp: 9095
Ion Ratio Lower Upper
91 100
106 0.0 22.4 67.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.261 ppbv
RT: 14.45 min Scan# 3628
Delta R.T. -0.01 min
Lab File: VL035257.D
Acq: 29 Jul 2020 22:11

Tgt Ion: 95 Resp: 2111832
Ion Ratio Lower Upper
95 100
174 64.7 52.7 79.1
175 4.8 3.9 5.9





#74
 1,2,4-Trimethylbenzene
 Concen: 0.044 ppbv
 RT: 16.80 min Scan# 4357
 Delta R.T. -0.02 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	14223
Ion	Ratio	Lower	Upper
105	100		
120	30.3	38.8	58.2#
91	12.2	38.9	58.3#
77	16.1	18.4	27.6#

