

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036607.D
 Acq On : 31 Mar 2021 18:29
 Operator : SY/AP
 Sample : M1808-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 01 04:28:38 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1498836	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3566396	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3113106	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2417617	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

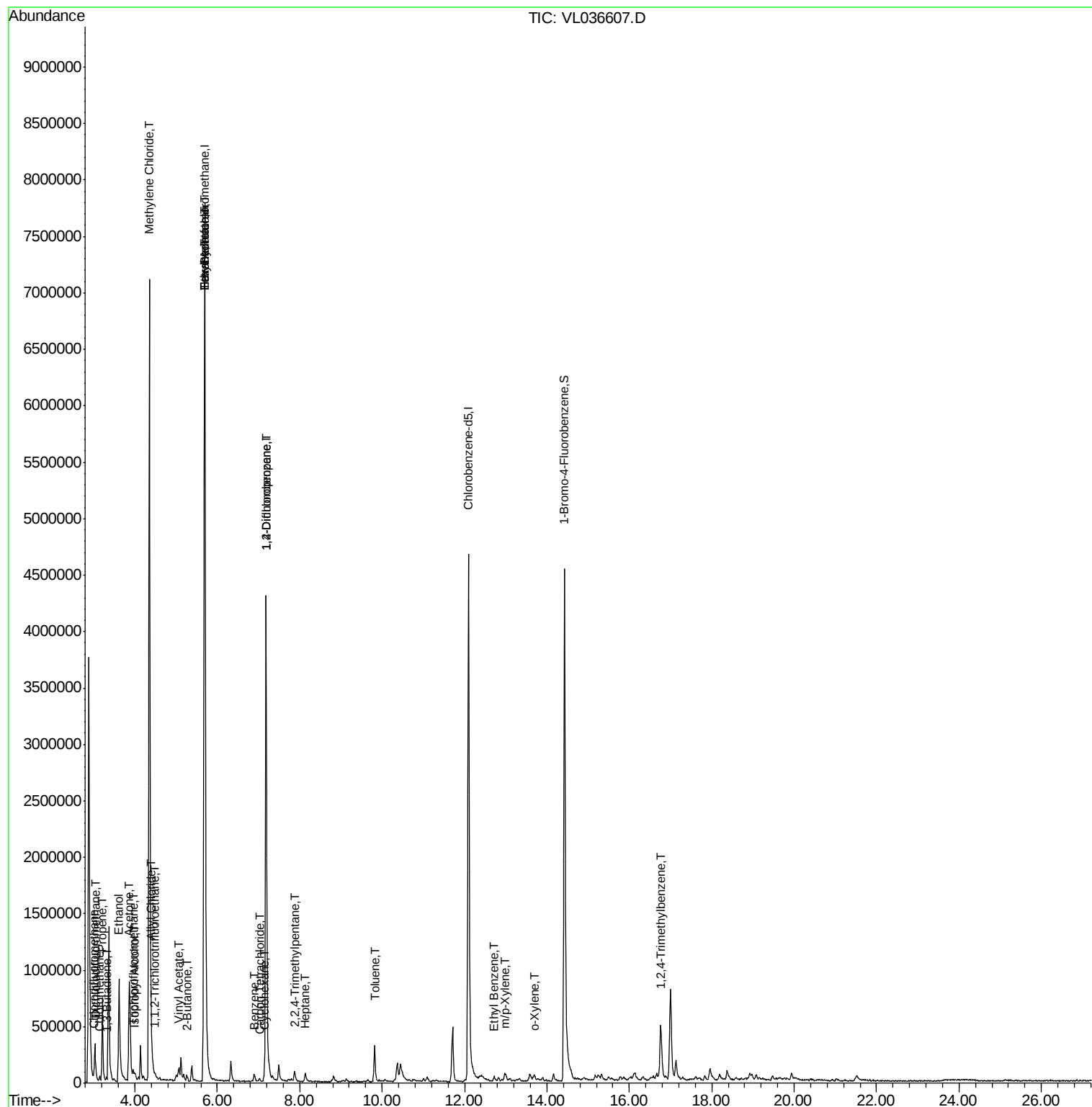
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	47371	0.194	ppbv 96
3) Chlorodifluoromethane	2.99	51	66464	0.237	ppbv 92
4) Chloromethane	3.14	50	26318	0.266	ppbv 89
9) Propene	3.21	41	235225	2.635	ppbv 98
10) Heptane	8.13	43	19998	0.088	ppbv # 79
11) Trichlorofluoromethane	3.95	101	30015	0.120	ppbv # 82
12) 1,1,2-Trichlorotrifluoroet	4.49	101	8736	0.055	ppbv 82
13) Ethanol	3.61	45	1275435	119.972	ppbv 93
15) Acetone	3.86	43	1269769	8.607	ppbv 98
16) 1,3-Butadiene	3.32	39	3294	0.032	ppbv # 13
19) Isopropyl Alcohol	4.00	45	30540	0.376	ppbv # 89
20) Methylene Chloride	4.35	84	2842949	41.161	ppbv 95
21) Allyl Chloride	4.40	41	4495	0.038	ppbv # 17
23) Vinyl Acetate	5.07	43	15116	0.060	ppbv # 29
25) Ethyl Acetate	5.69	43	2375608	6.773	ppbv # 77
26) Hexane	5.69	57	3239770	19.906	ppbv # 46
30) Cyclohexane	7.13	84	7657	0.058	ppbv # 1
34) 2-Butanone	5.26	43	53928	0.310	ppbv # 78
35) Carbon Tetrachloride	7.03	117	5874	0.021	ppbv # 49
36) Benzene	6.90	78	24742	0.075	ppbv 98
39) 1,2-Dichloropropane	7.18	63	964690	7.230	ppbv # 23
41) Tetrahydrofuran	5.70	42	1306283	16.274	ppbv # 53
44) 2,2,4-Trimethylpentane	7.88	57	24316	0.042	ppbv # 1
53) Toluene	9.82	91	144327	0.412	ppbv # 41
58) Ethyl Benzene	12.72	91	15921	0.035	ppbv 96
59) m/p-Xylene	13.00	91	20910	0.053	ppbv # 1
60) o-Xylene	13.71	91	13732	0.036	ppbv # 1
74) 1,2,4-Trimethylbenzene	16.78	105	20777	0.050	ppbv 91

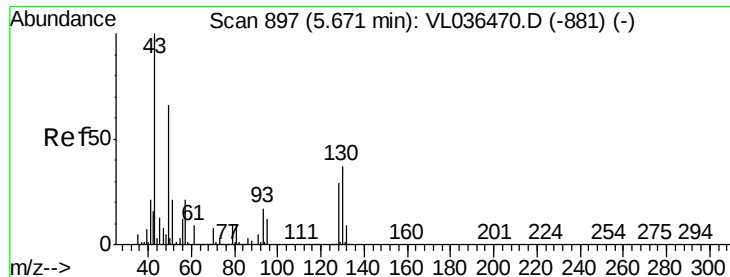
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

Instrument :

MSVOA_L

ClientSampleId :

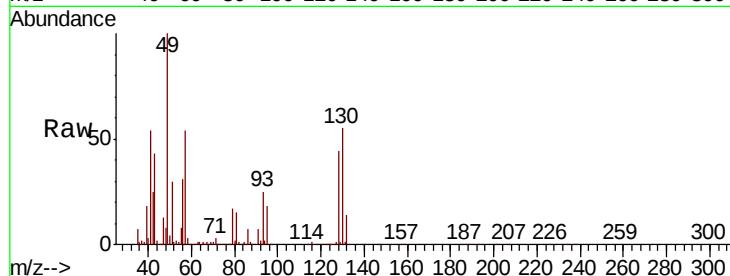
Tot Ion: 49 Resp: 1498836

Ion Ratio Lower Upper

49 100

128 45.2 23.5 70.6

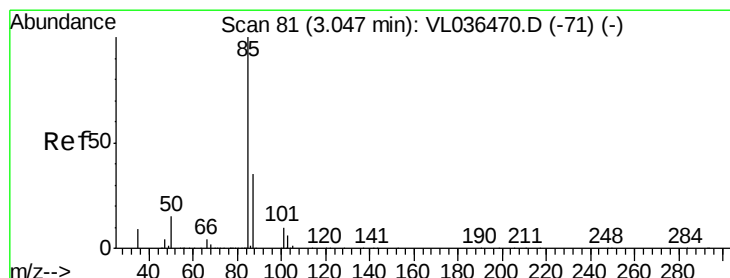
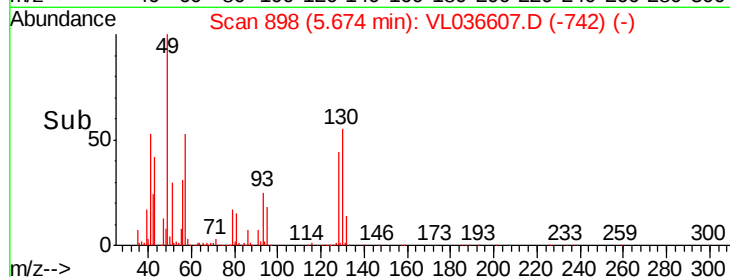
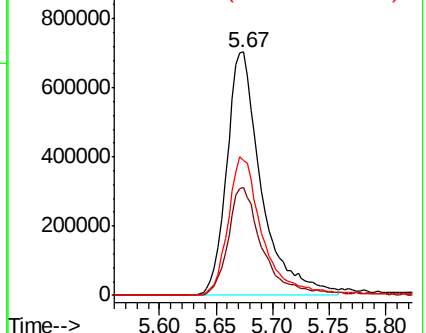
130 58.3 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.194 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL036607.D

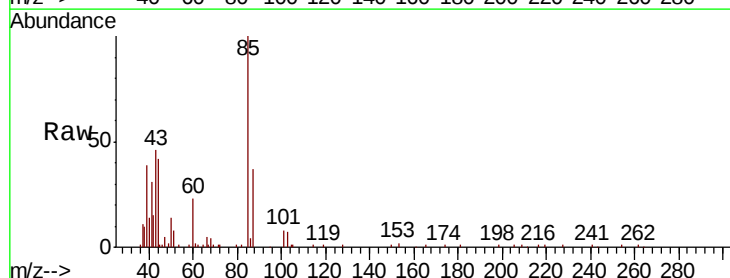
Acq: 31 Mar 2021 18:29

Tgt Ion: 85 Resp: 47371

Ion Ratio Lower Upper

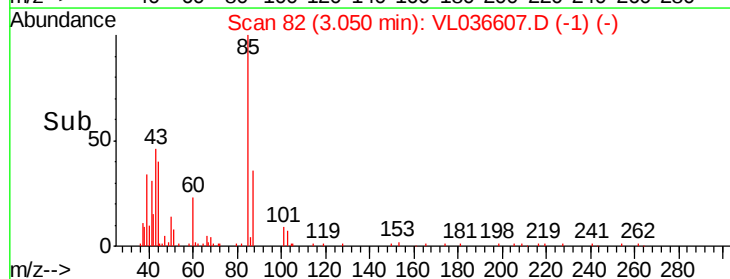
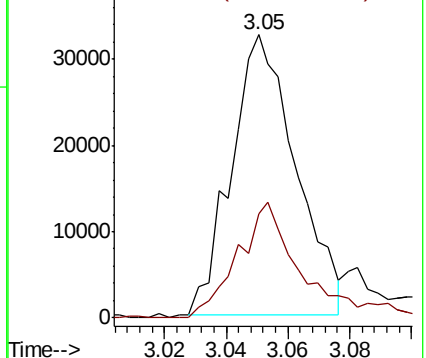
85 100

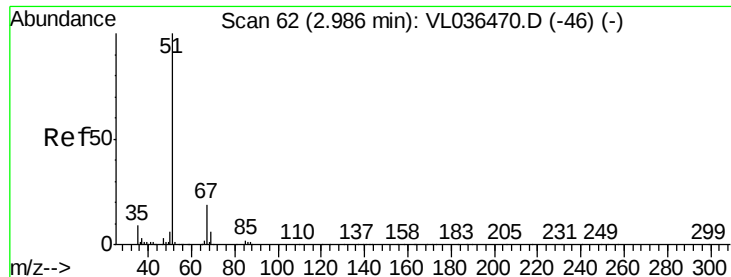
87 37.0 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.237 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

Instrument :

MSVOA_L

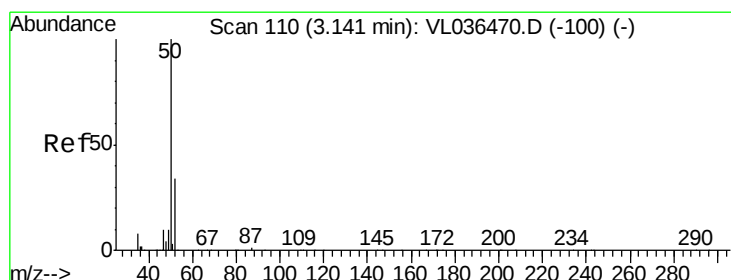
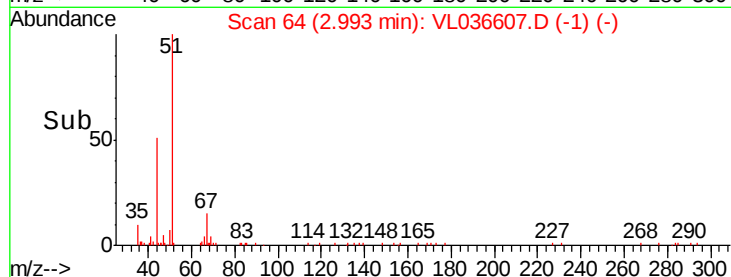
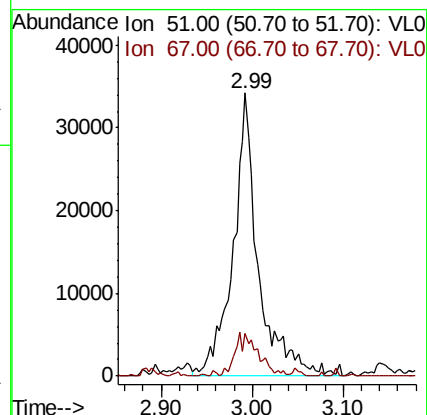
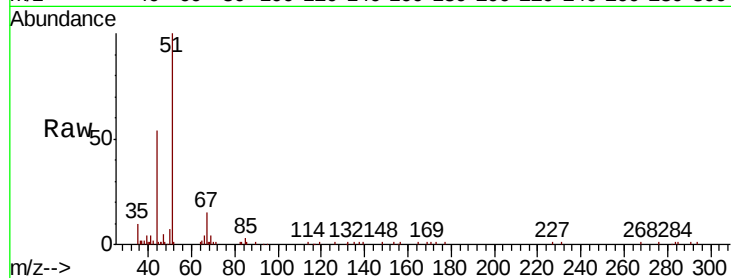
ClientSampleId :

Tot Ion: 51 Resp: 66464

Ion Ratio Lower Upper

51 100

67 14.9 14.7 22.1



#4

Chloromethane

Concen: 0.266 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL036607.D

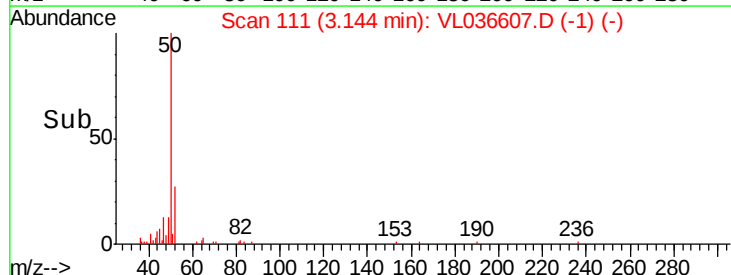
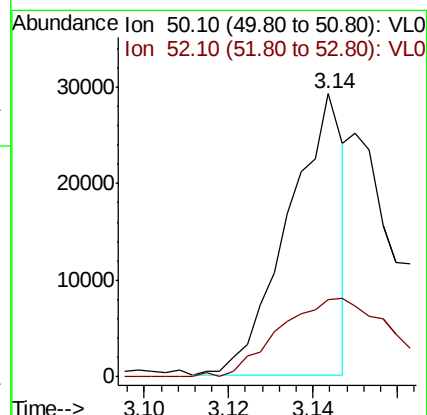
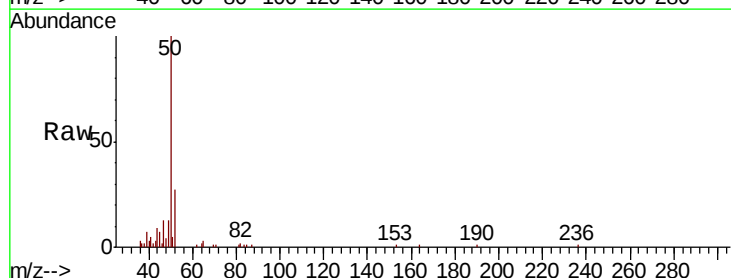
Acq: 31 Mar 2021 18:29

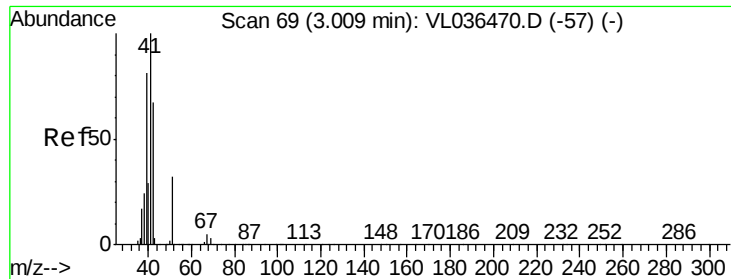
Tgt Ion: 50 Resp: 26318

Ion Ratio Lower Upper

50 100

52 27.6 27.0 40.6





#9

Propene

Concen: 2.635 ppbv

RT: 3.21 min Scan# 132

Delta R.T. 0.20 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

Instrument :

MSVOA_L

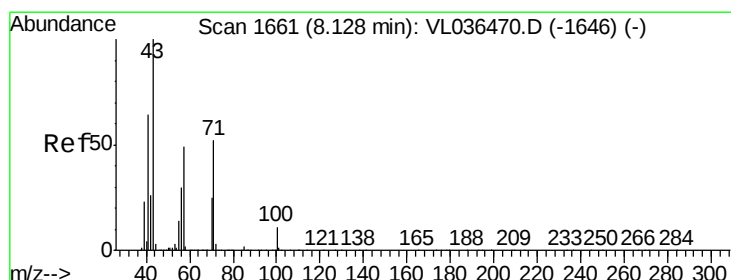
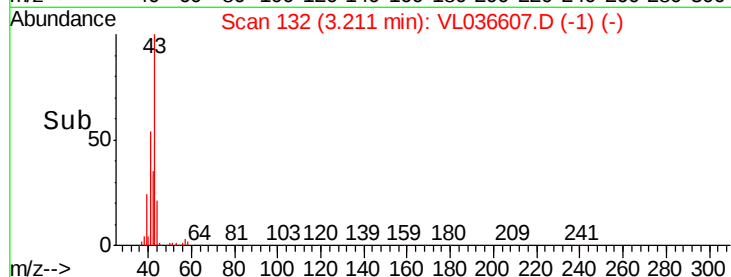
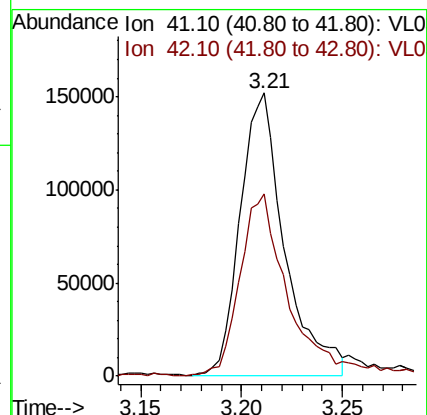
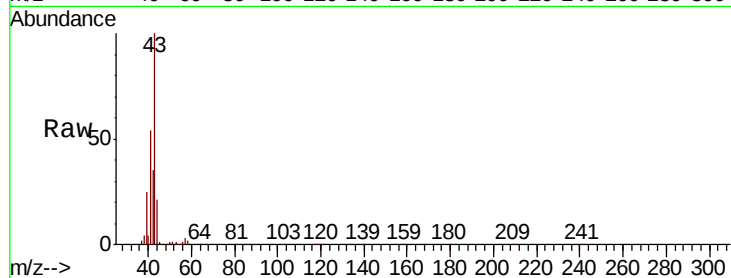
ClientSampleId :

Tot Ion: 41 Resp: 235225

Ion Ratio Lower Upper

41 100

42 73.1 57.0 85.4



#10

Heptane

Concen: 0.088 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. 0.01 min

Lab File: VL036607.D

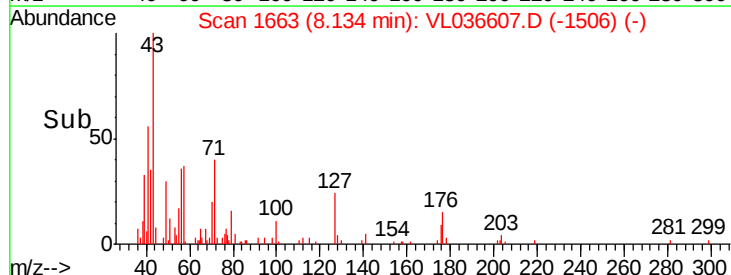
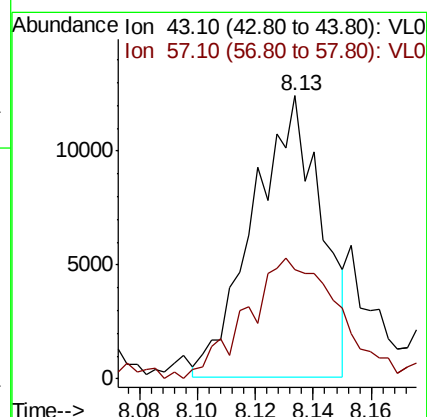
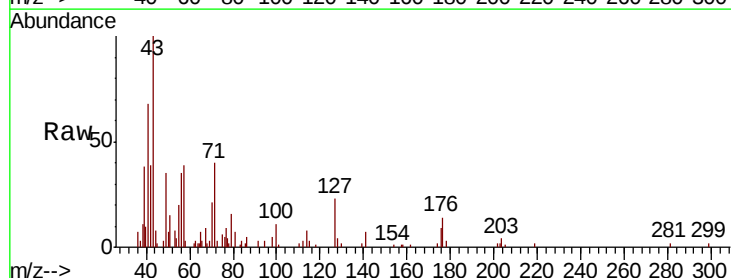
Acq: 31 Mar 2021 18:29

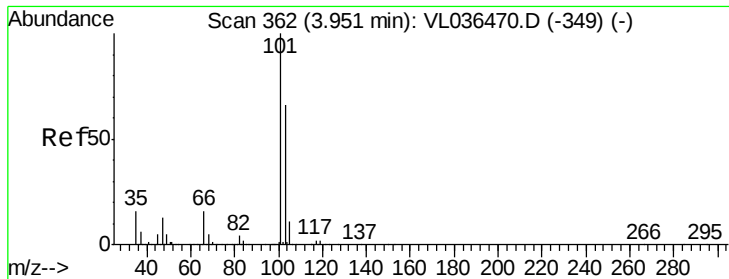
Tgt Ion: 43 Resp: 19998

Ion Ratio Lower Upper

43 100

57 62.8 39.0 58.6#





#11

Trichlorofluoromethane

Concen: 0.120 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

Instrument :

MSVOA_L

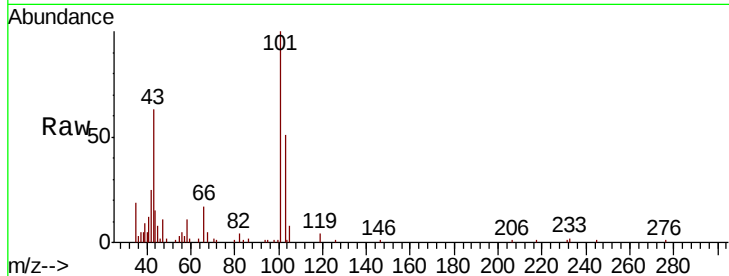
ClientSampleId :

Tot Ion:101 Resp: 30015

Ion Ratio Lower Upper

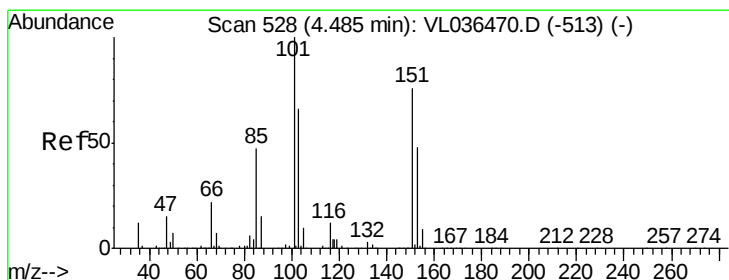
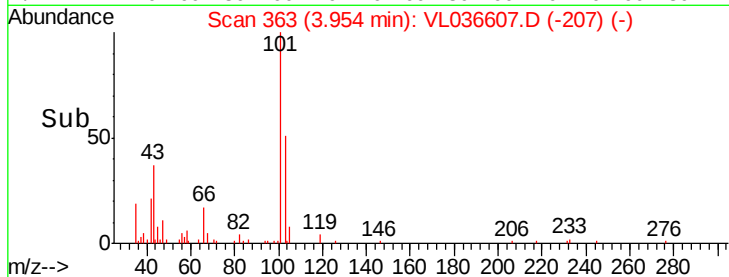
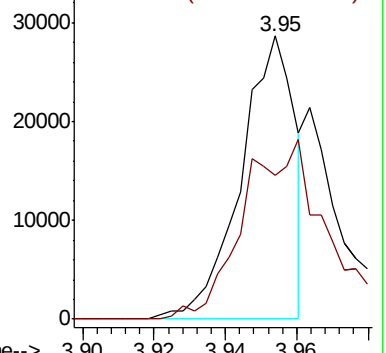
101 100

103 51.1 52.5 78.7#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.055 ppbv

RT: 4.49 min Scan# 529

Delta R.T. 0.00 min

Lab File: VL036607.D

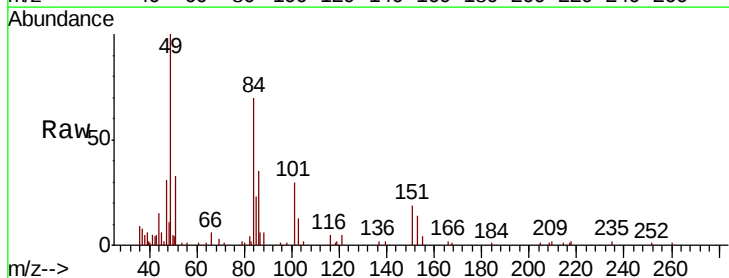
Acq: 31 Mar 2021 18:29

Tgt Ion:101 Resp: 8736

Ion Ratio Lower Upper

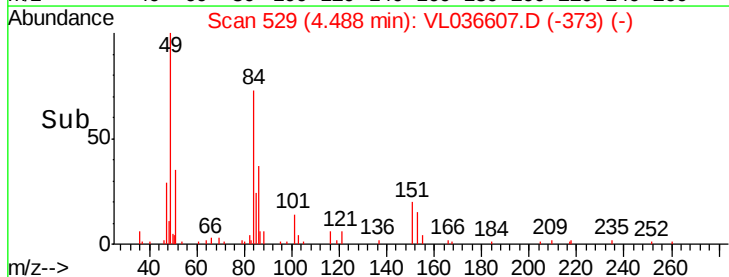
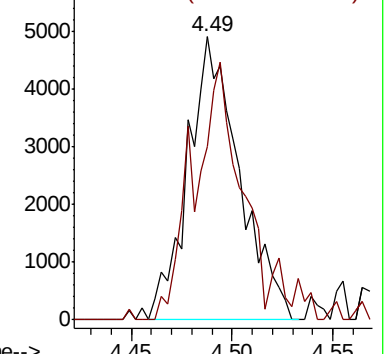
101 100

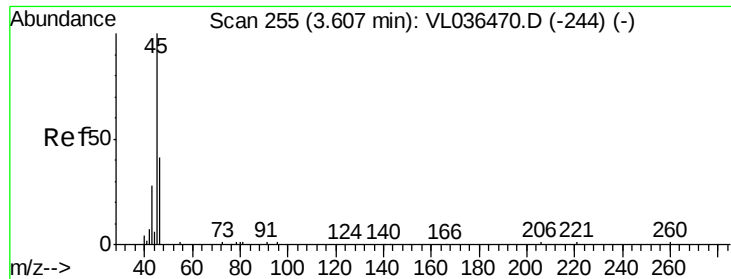
151 91.3 60.9 91.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

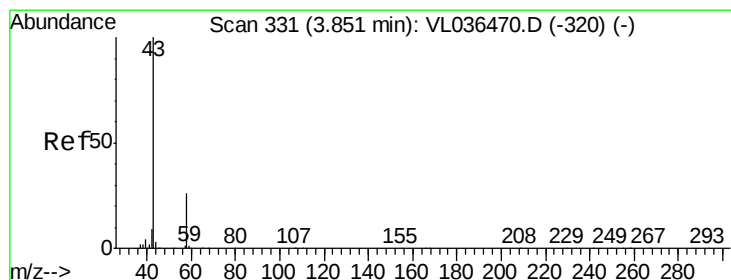
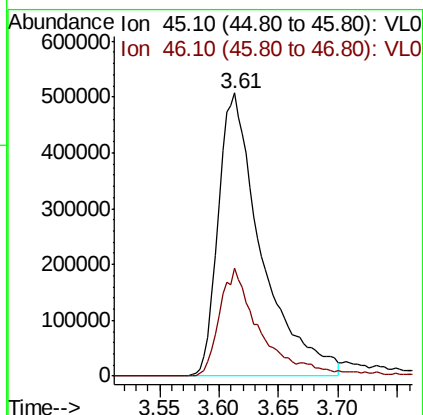
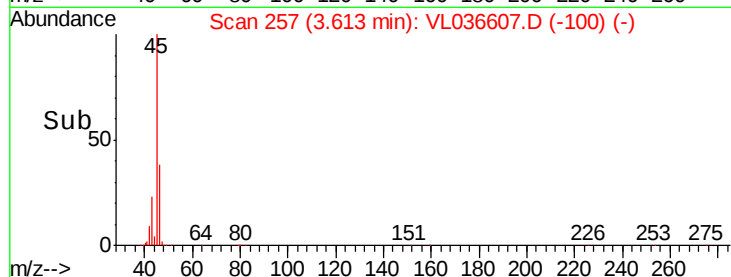
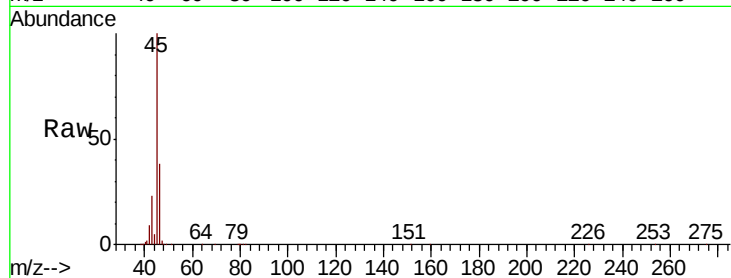




#13
Ethanol
Concen: 119.972 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

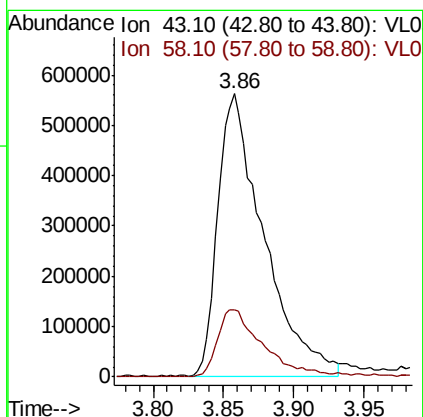
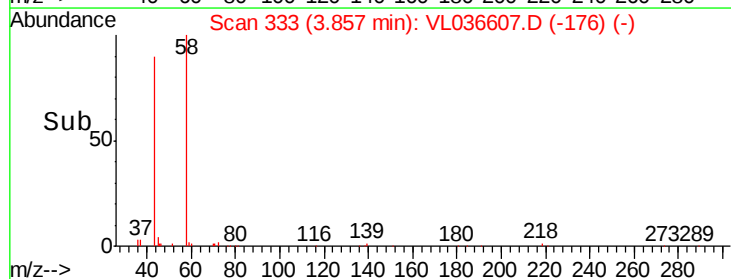
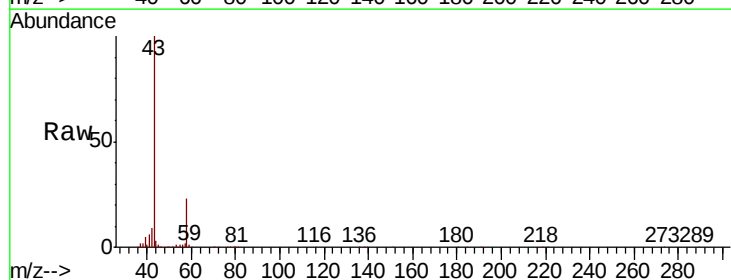
Instrument :
MSVOA_L
ClientSampled :

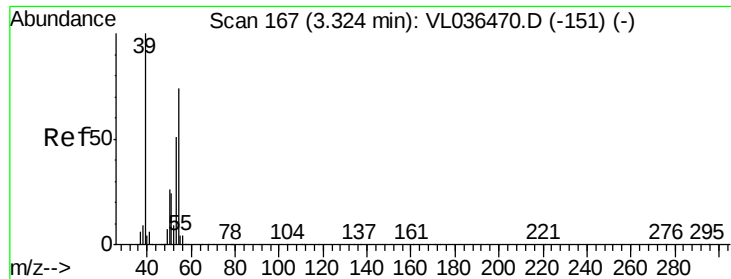
Tot Ion: 45 Resp: 1275435
Ion Ratio Lower Upper
45 100
46 36.9 16.6 66.2



#15
Acetone
Concen: 8.607 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.01 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

Tgt Ion: 43 Resp: 1269769
Ion Ratio Lower Upper
43 100
58 25.5 21.2 31.8

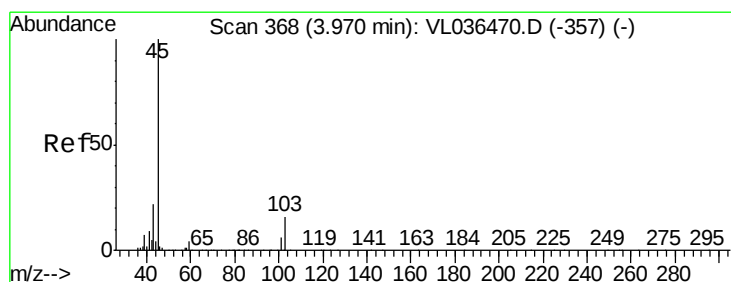
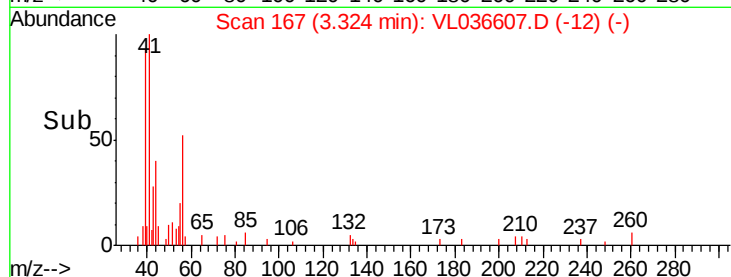
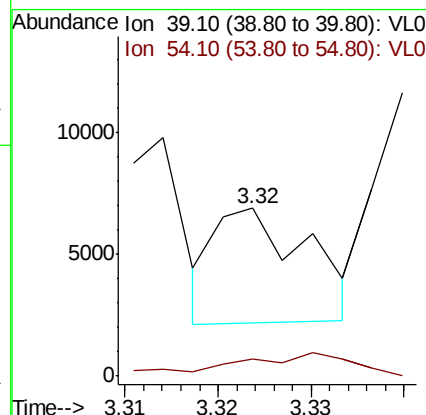
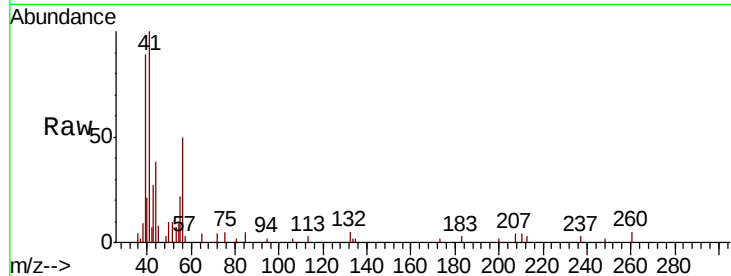




#16
 1,3-Butadiene
 Concen: 0.032 ppbv
 RT: 3.32 min Scan# 167
 Delta R.T. -0.00 min
 Lab File: VL036607.D
 Acq: 31 Mar 2021 18:29

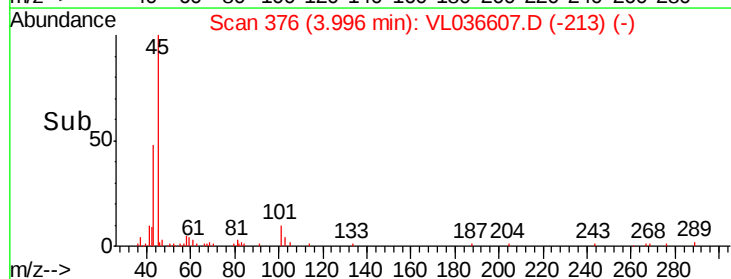
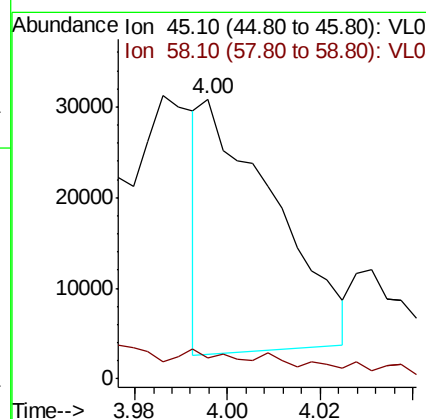
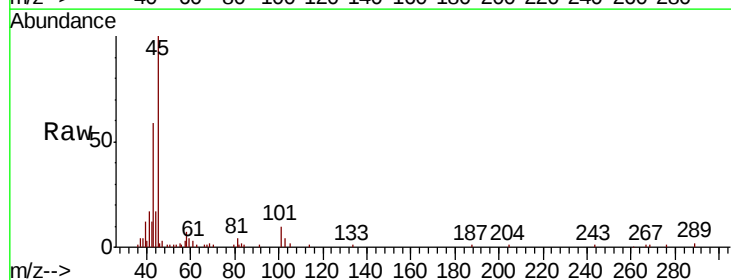
Instrument :
 MSVOA_L
 ClientSampleId :

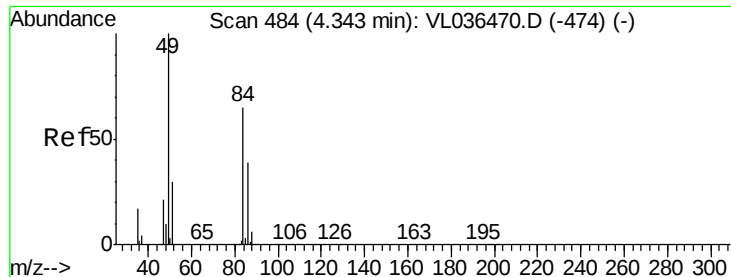
Tot Ion: 39 Resp: 3294
 Ion Ratio Lower Upper
 39 100
 54 0.0 58.8 88.2#



#19
 Isopropyl Alcohol
 Concen: 0.376 ppbv
 RT: 4.00 min Scan# 376
 Delta R.T. 0.03 min
 Lab File: VL036607.D
 Acq: 31 Mar 2021 18:29

Tgt Ion: 45 Resp: 30540
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.9 4.3#

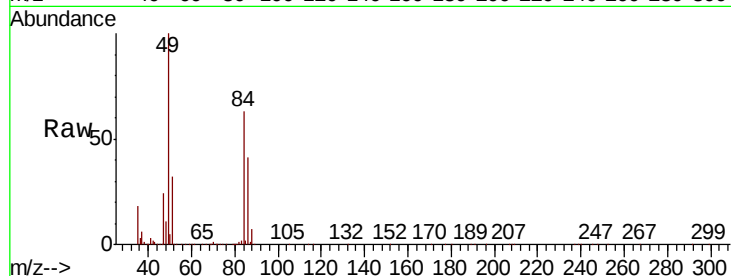




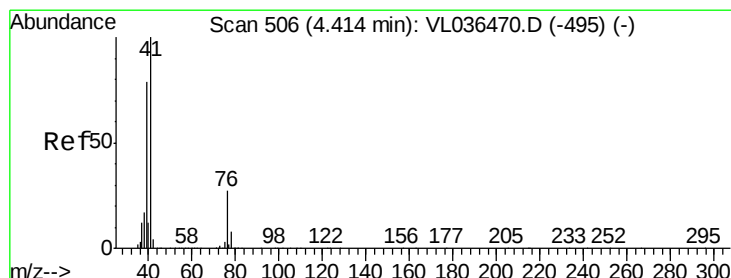
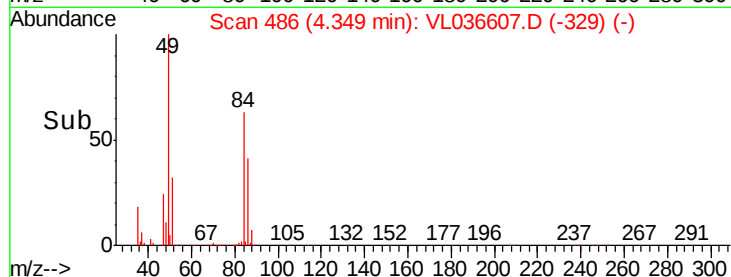
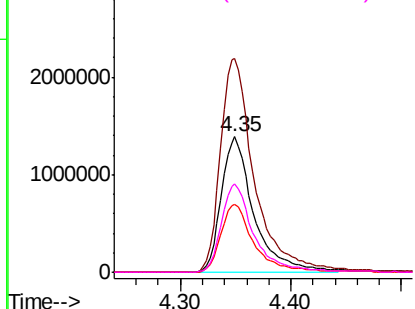
#20
Methvlene Chloride
Concen: 41.161 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 2842949
Ion Ratio Lower Upper
84 100
49 158.1 122.9 184.3
51 50.2 36.9 55.3
86 65.1 48.2 72.4

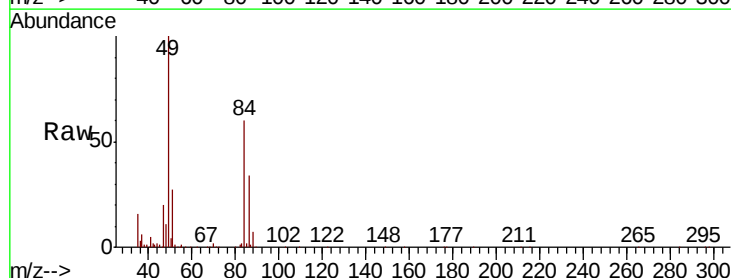


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

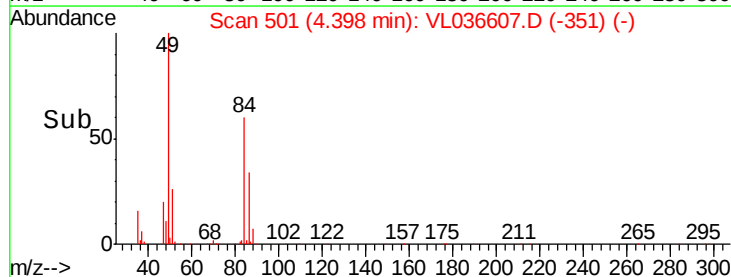
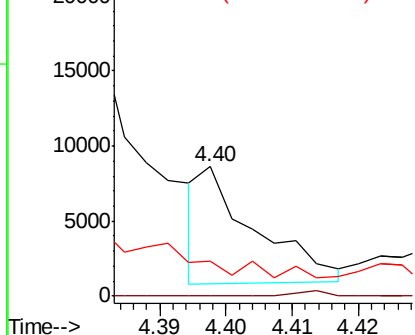


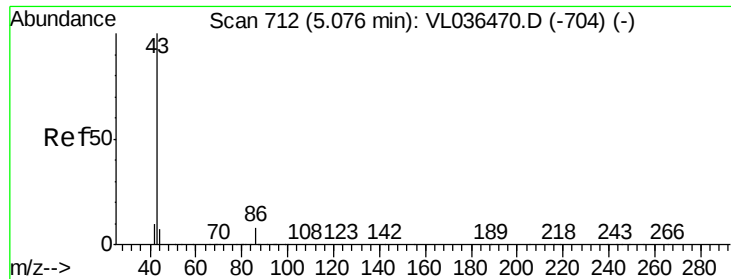
#21
Allyl Chloride
Concen: 0.038 ppbv
RT: 4.40 min Scan# 501
Delta R.T. -0.02 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

Tgt Ion: 41 Resp: 4495
Ion Ratio Lower Upper
41 100
76 0.0 22.9 34.3#
39 0.0 67.3 100.9#



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

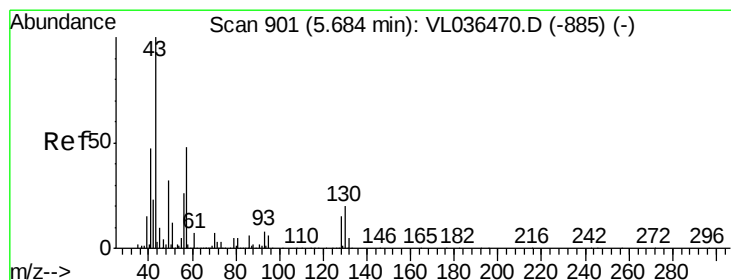
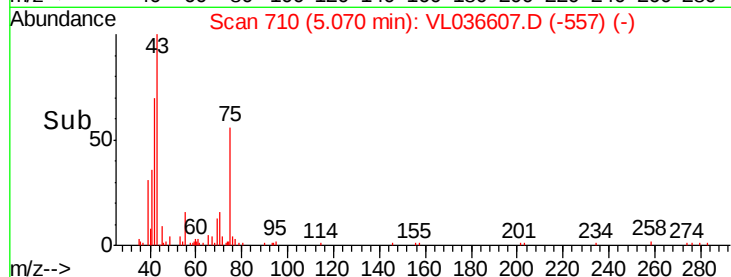
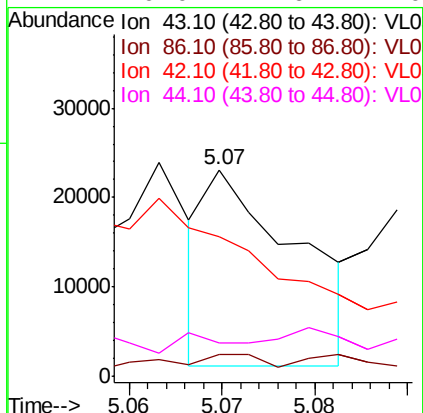
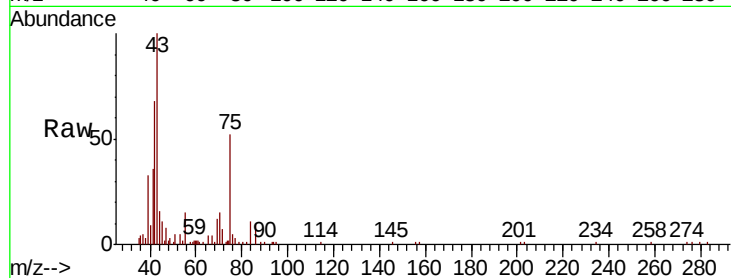




#23
 Vinyl Acetate
 Concen: 0.060 ppbv
 RT: 5.07 min Scan# 710
 Delta R.T. -0.01 min
 Lab File: VL036607.D
 Acq: 31 Mar 2021 18:29

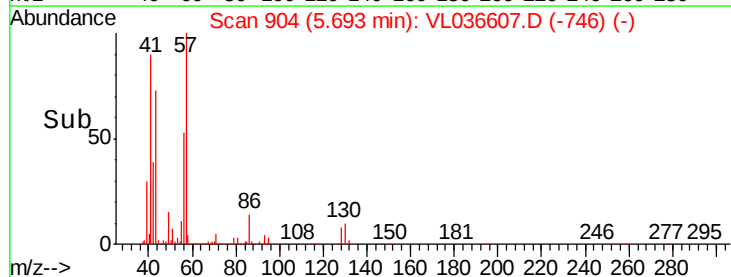
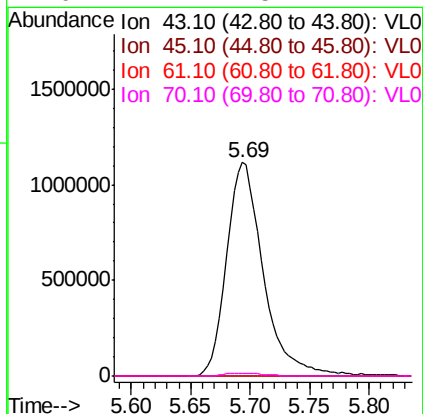
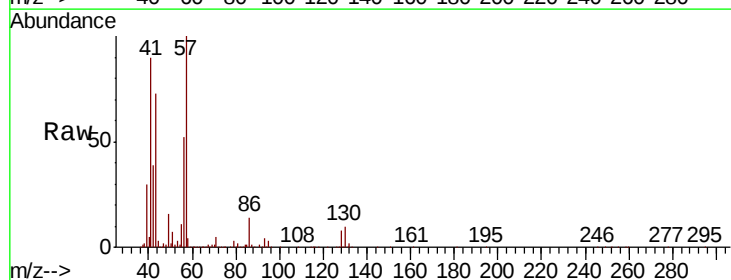
Instrument :
 MSVOA_L
 ClientSampled :

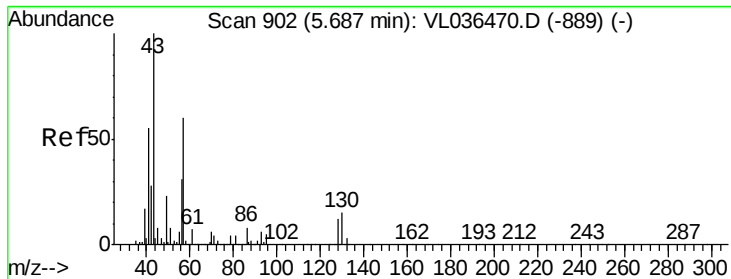
Tot Ion:	43	Resp:	15116
Ion	Ratio	Lower	Upper
43	100		
86	10.3	5.4	8.0#
42	62.7	8.5	12.7#
44	0.0	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 6.773 ppbv
 RT: 5.69 min Scan# 904
 Delta R.T. 0.01 min
 Lab File: VL036607.D
 Acq: 31 Mar 2021 18:29

Tgt Ion:	43	Resp:	2375608
Ion	Ratio	Lower	Upper
43	100		
45	0.2	7.9	11.9#
61	0.3	7.4	11.2#
70	1.4	5.1	7.7#

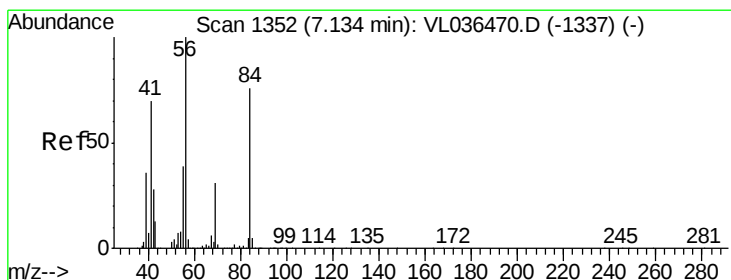
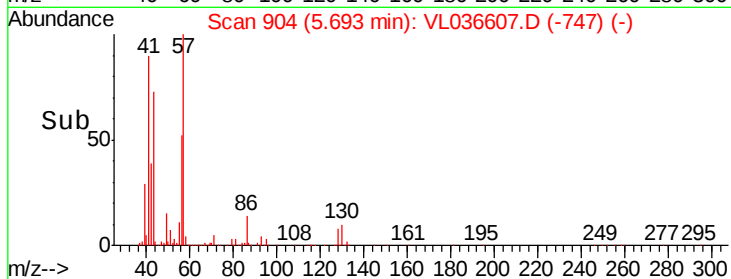
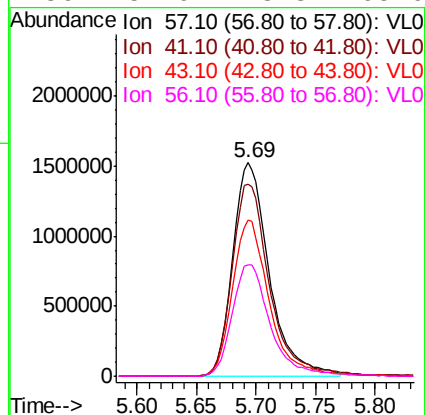
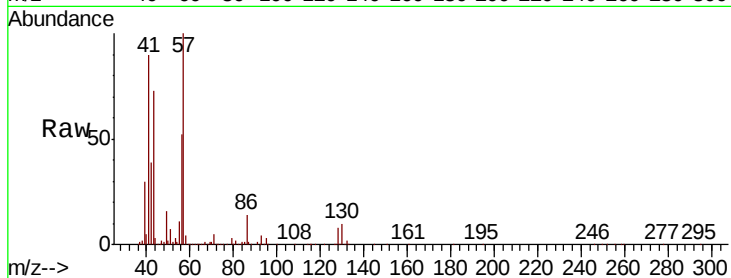




#26
Hexane
Concen: 19.906 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

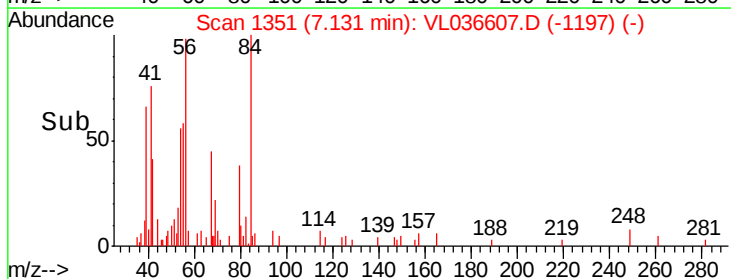
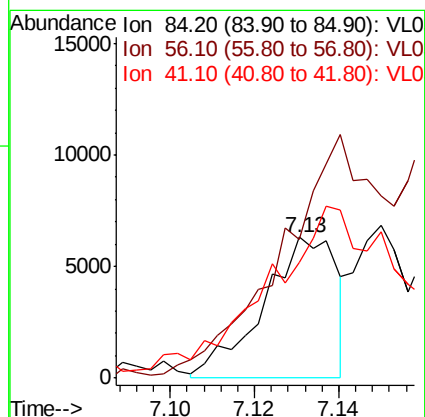
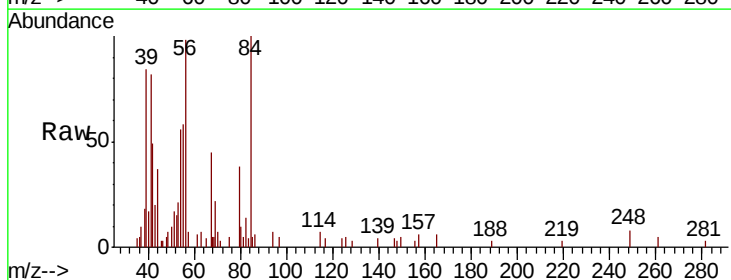
Instrument :
MSVOA_L
ClientSampleId :

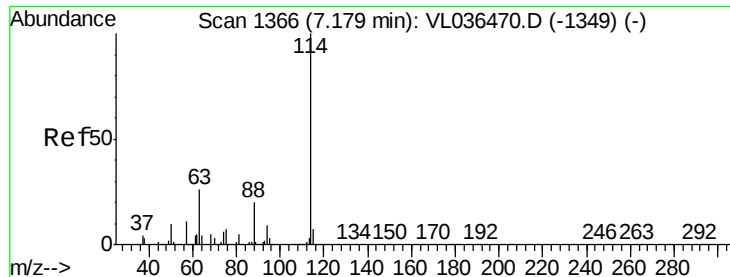
Tot Ion: 57 Resp: 3239770
Ion Ratio Lower Upper
57 100
41 93.7 77.2 115.8
43 74.3 173.8 260.6#
56 54.9 43.8 65.6



#30
Cyclohexane
Concen: 0.058 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.00 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

Tgt Ion: 84 Resp: 7657
Ion Ratio Lower Upper
84 100
56 0.0 114.6 171.8#
41 257.0 75.3 112.9#

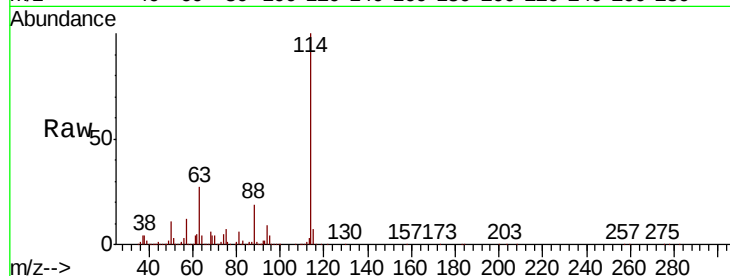




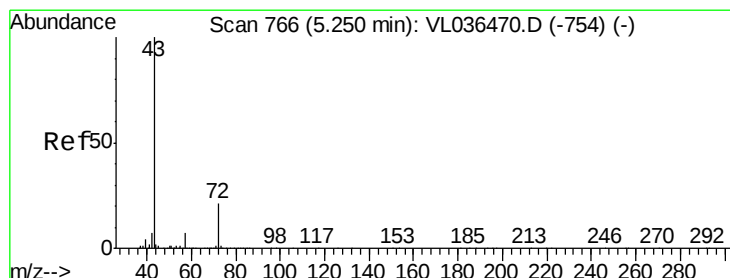
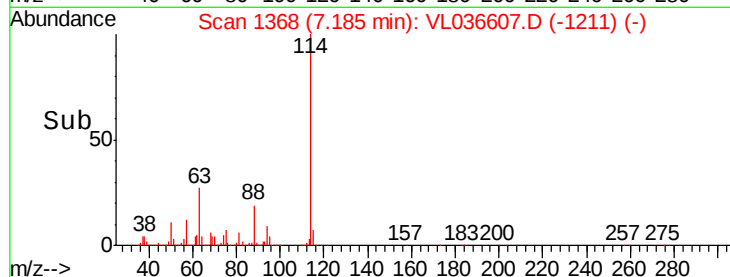
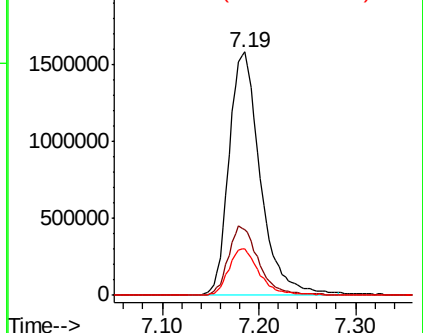
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.01 min
 Lab File: VL036607.D
 Acq: 31 Mar 2021 18:29

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3566396
 Ion Ratio Lower Upper
 114 100
 63 27.9 22.4 33.6
 88 18.9 15.4 23.0

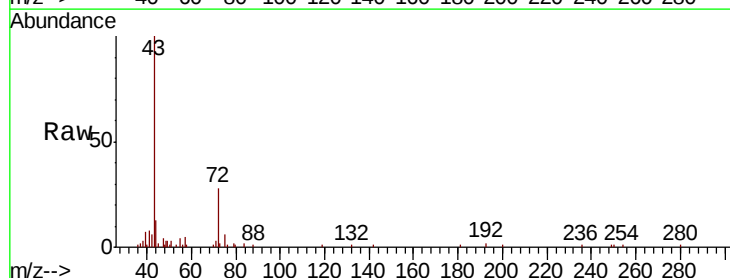


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

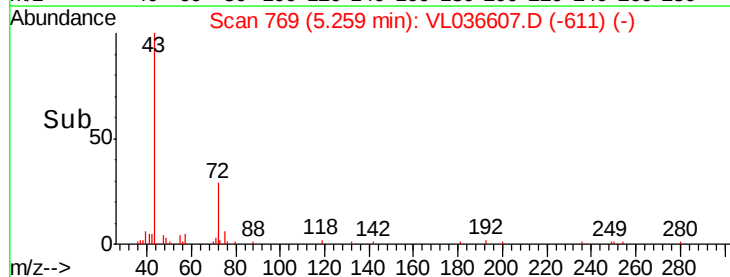
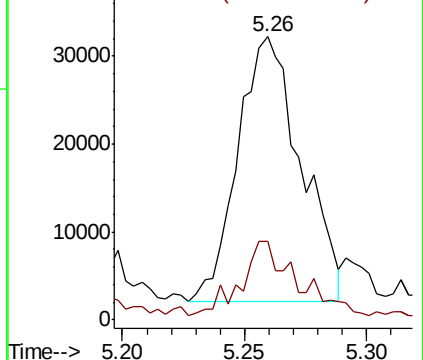


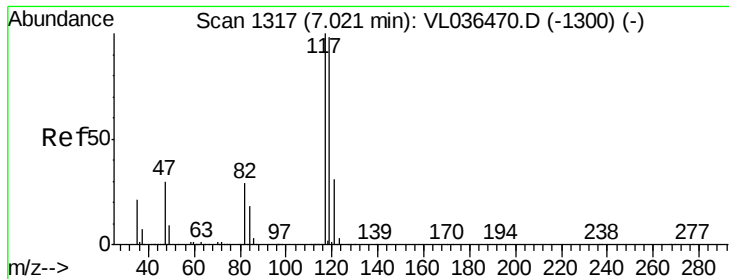
#34
 2-Butanone
 Concen: 0.310 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.01 min
 Lab File: VL036607.D
 Acq: 31 Mar 2021 18:29

Tgt Ion: 43 Resp: 53928
 Ion Ratio Lower Upper
 43 100
 72 31.7 17.0 25.6#



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





#35

Carbon Tetrachloride

Concen: 0.021 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. 0.01 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

Instrument :

MSVOA_L

ClientSampleId :

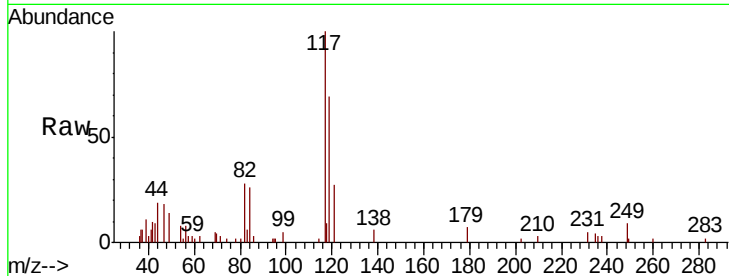
Tot Ion:117 Resp: 5874

Ion Ratio Lower Upper

117 100

119 35.1 78.2 117.2#

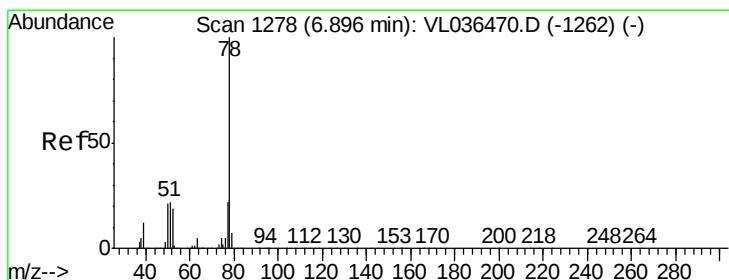
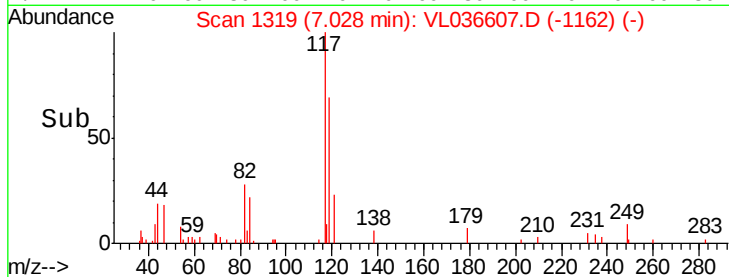
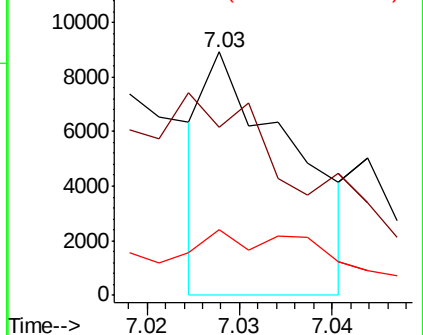
121 24.4 24.5 36.7#



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: 0.075 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. 0.01 min

Lab File: VL036607.D

Acq: 31 Mar 2021 18:29

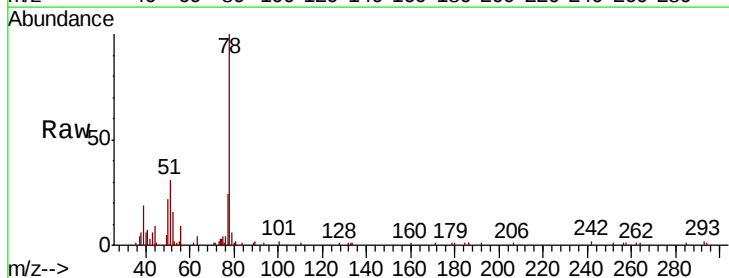
Tgt Ion: 78 Resp: 24742

Ion Ratio Lower Upper

78 100

77 21.8 18.0 27.0

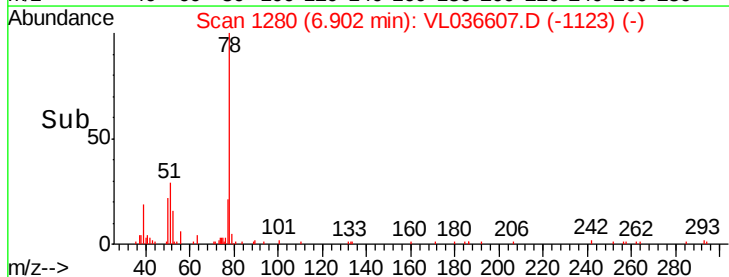
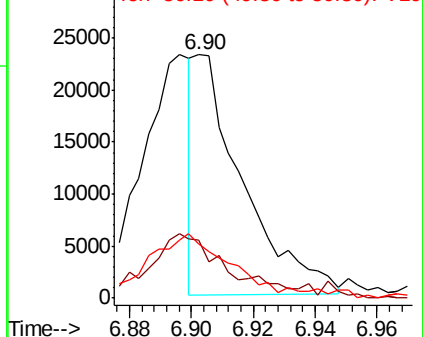
50 19.8 16.5 24.7

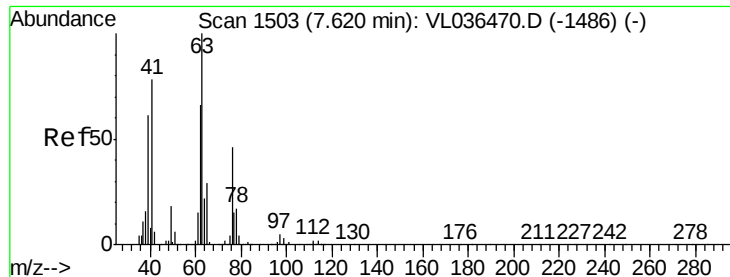


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

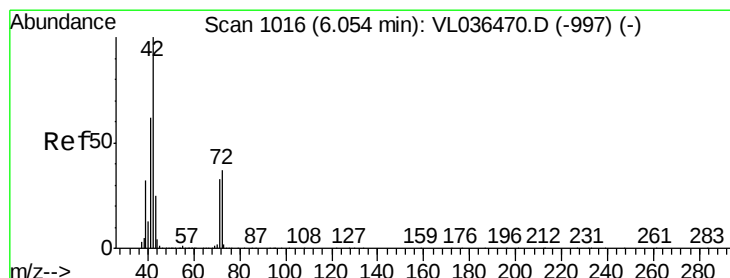
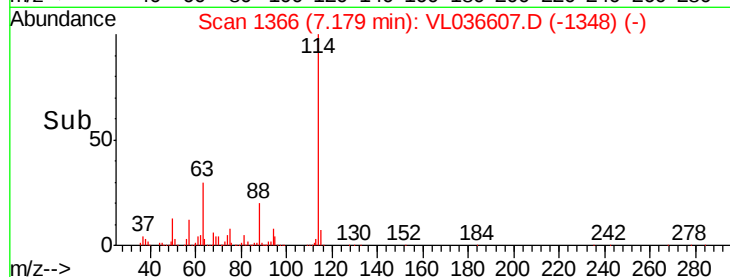
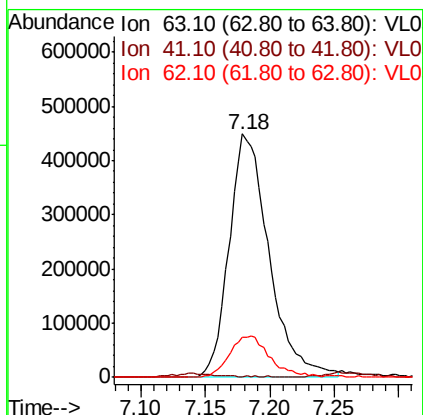
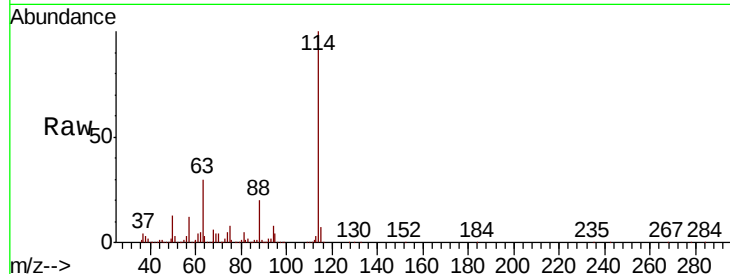




#39
 1,2-Dichloropropane
 Concen: 7.230 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.44 min
 Lab File: VL036607.D
 Acq: 31 Mar 2021 18:29

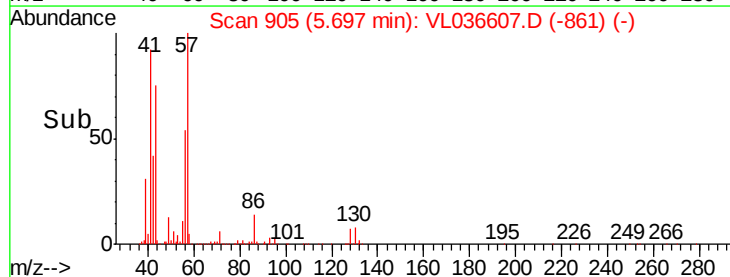
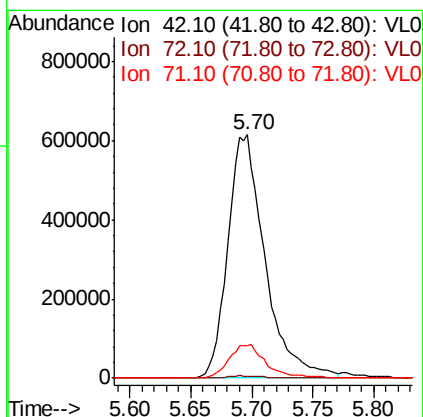
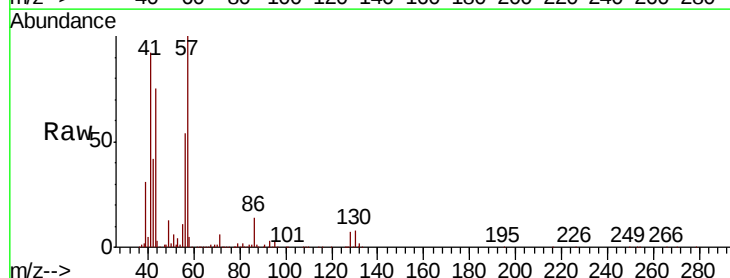
Instrument :
 MSVOA_L
 ClientSampleId :

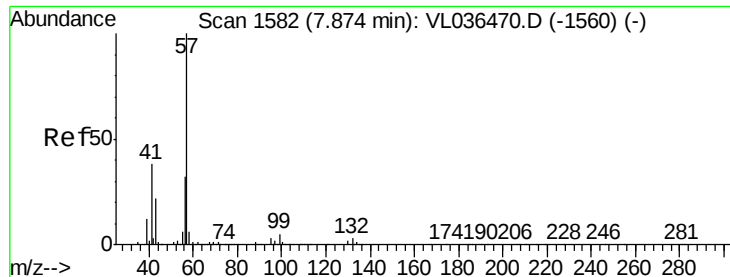
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	16.3	52.8	79.2#



#41
 Tetrahydrofuran
 Concen: 16.274 ppbv
 RT: 5.70 min Scan# 905
 Delta R.T. -0.36 min
 Lab File: VL036607.D
 Acq: 31 Mar 2021 18:29

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.9	27.6	41.4#
71	13.8	27.0	40.4#

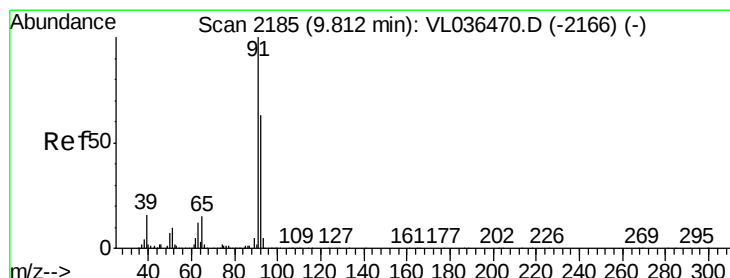
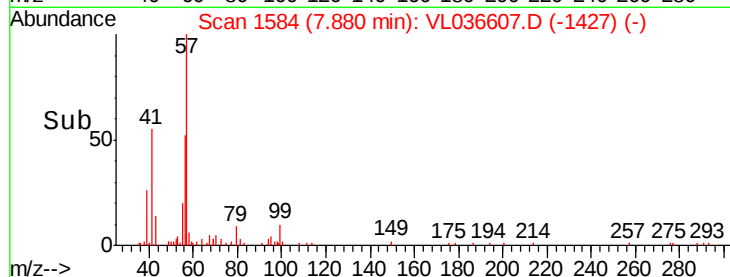
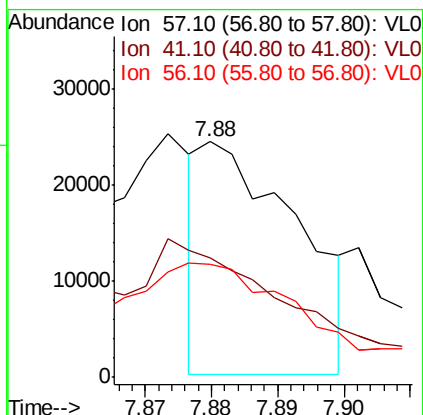
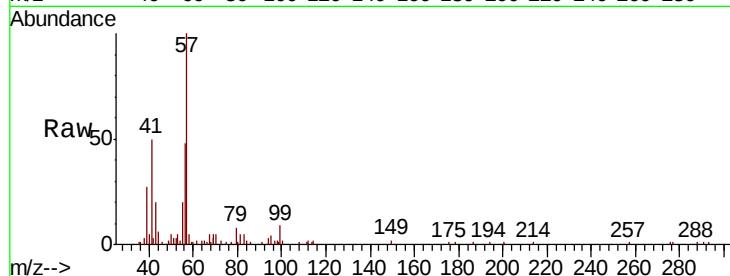




#44
2,2,4-Trimethylpentane
Concen: 0.042 ppbv
RT: 7.88 min Scan# 1584
Delta R.T. 0.01 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

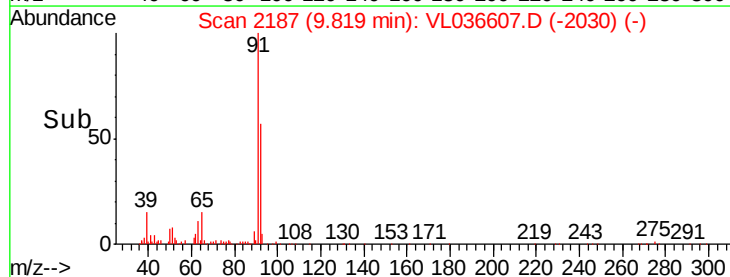
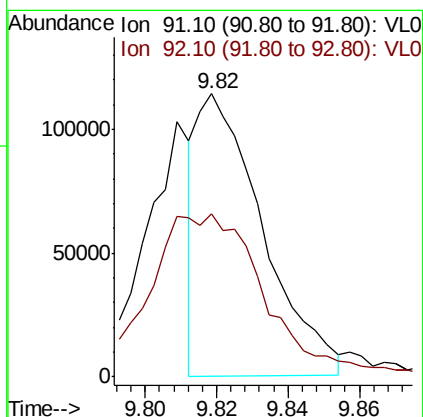
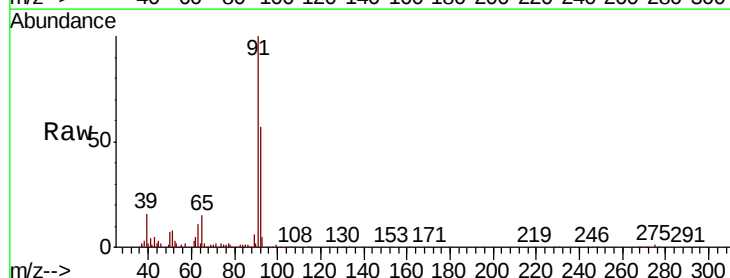
Instrument :
MSVOA_L
ClientSampleId :

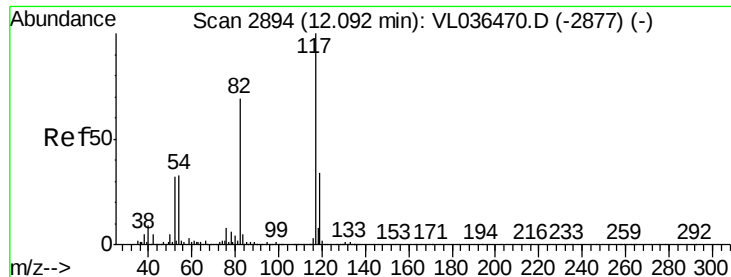
Tot Ion: 57 Resp: 24316
Ion Ratio Lower Upper
57 100
41 0.0 28.8 43.2#
56 119.9 26.1 39.1#



#53
Toluene
Concen: 0.412 ppbv
RT: 9.82 min Scan# 2187
Delta R.T. 0.01 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

Tgt Ion: 91 Resp: 144327
Ion Ratio Lower Upper
91 100
92 106.0 48.8 73.2#

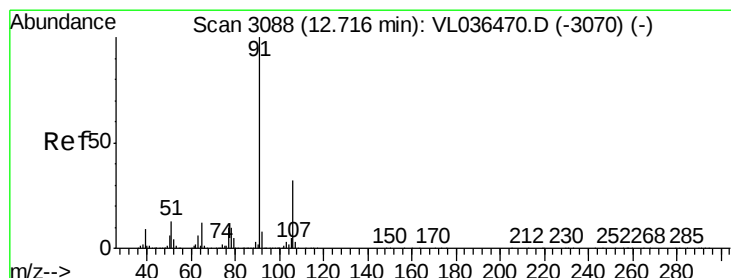
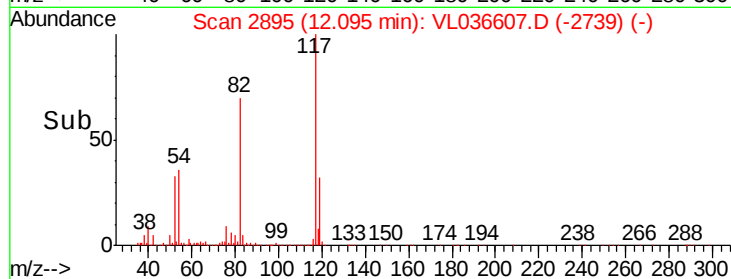
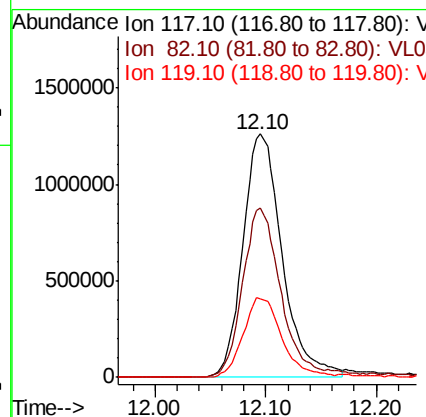
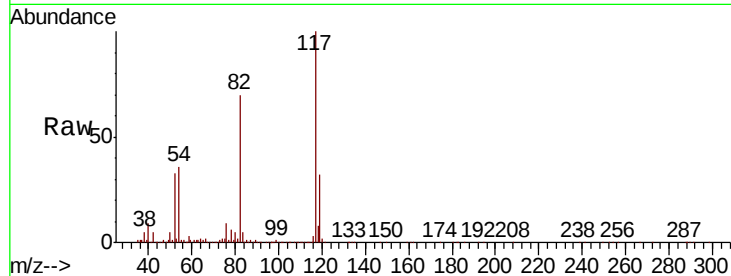




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. 0.00 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

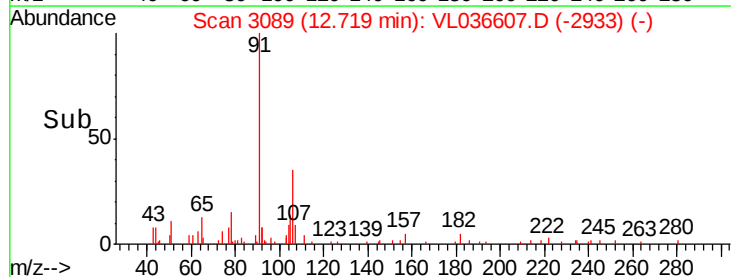
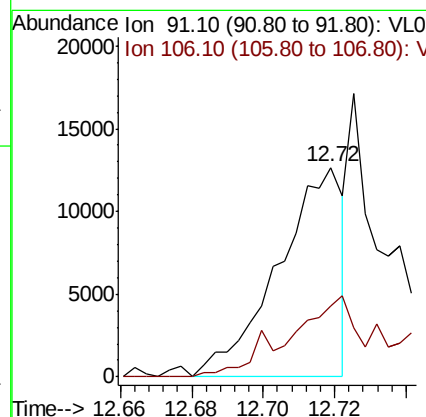
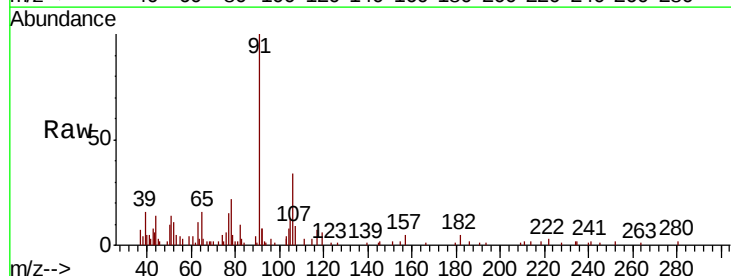
Instrument :
MSVOA_L
ClientSampleId :

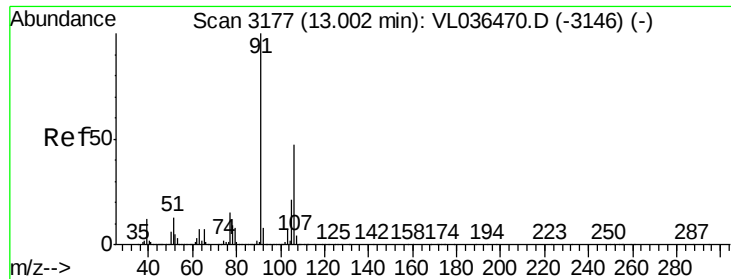
Tot Ion:117 Resp: 3113106
Ion Ratio Lower Upper
117 100
82 71.4 57.4 86.0
119 33.7 47.4 71.0#



#58
Ethyl Benzene
Concen: 0.035 ppbv
RT: 12.72 min Scan# 3089
Delta R.T. 0.00 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

Tgt Ion: 91 Resp: 15921
Ion Ratio Lower Upper
91 100
106 34.1 25.3 37.9

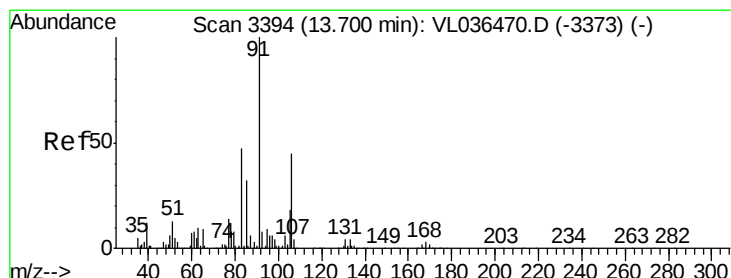
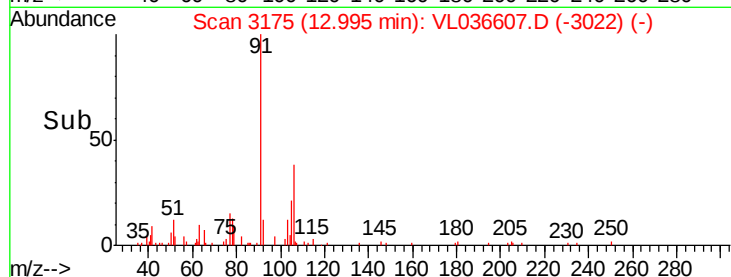
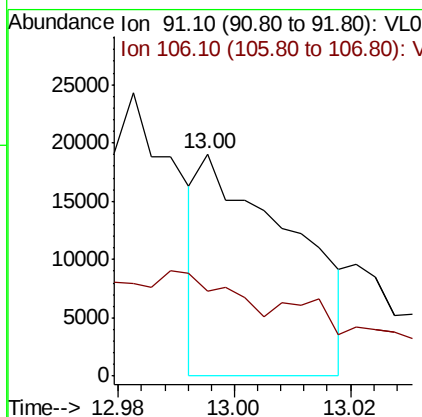
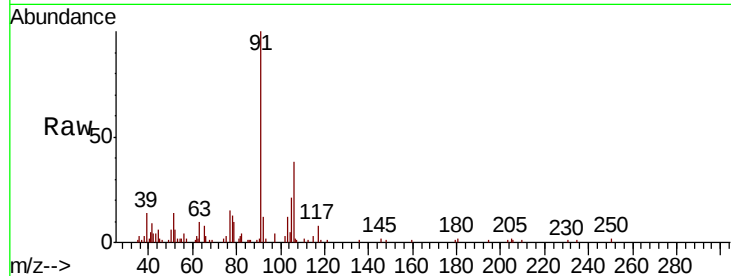




#59
m/p-Xylene
Concen: 0.053 ppbv
RT: 13.00 min Scan# 3175
Delta R.T. -0.01 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

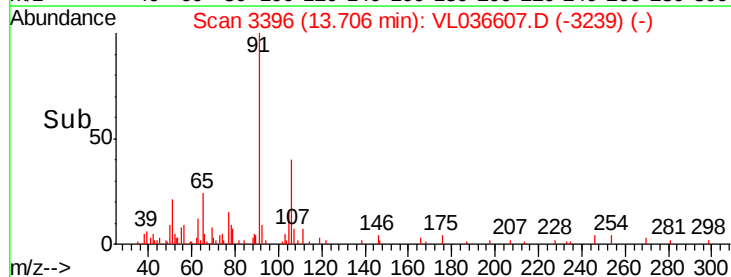
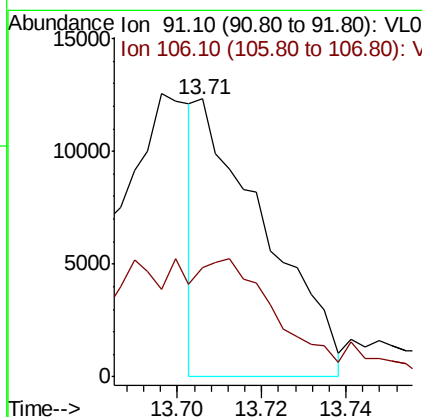
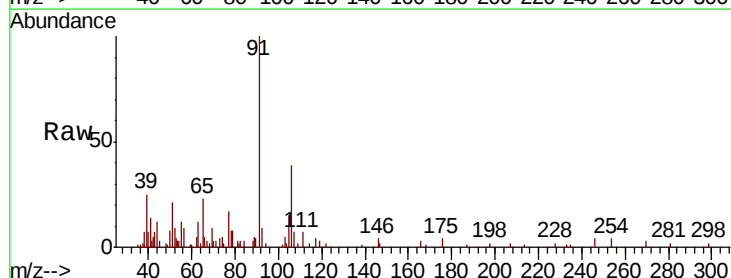
Instrument :
MSVOA_L
ClientSampleId :

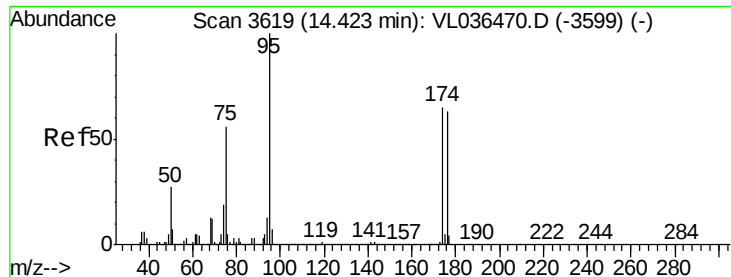
Tot Ion: 91 Resp: 20910
Ion Ratio Lower Upper
91 100
106 164.6 35.3 52.9#



#60
o-Xylene
Concen: 0.036 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. 0.01 min
Lab File: VL036607.D
Acq: 31 Mar 2021 18:29

Tgt Ion: 91 Resp: 13732
Ion Ratio Lower Upper
91 100
106 111.5 22.3 66.9#

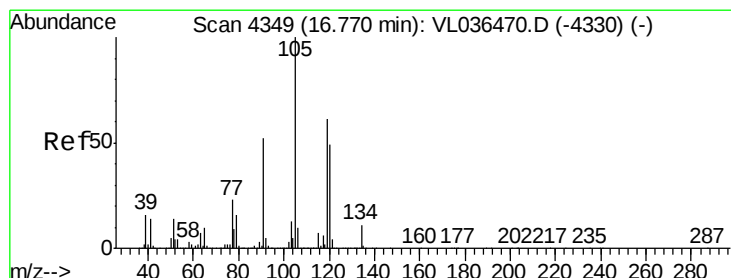
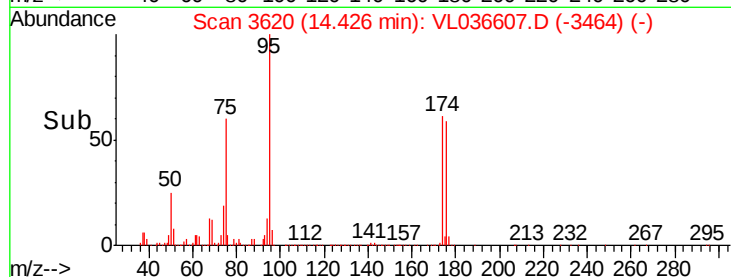
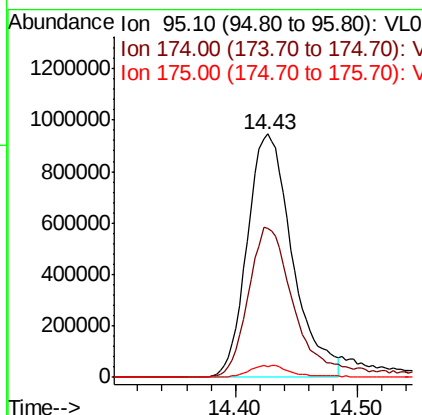
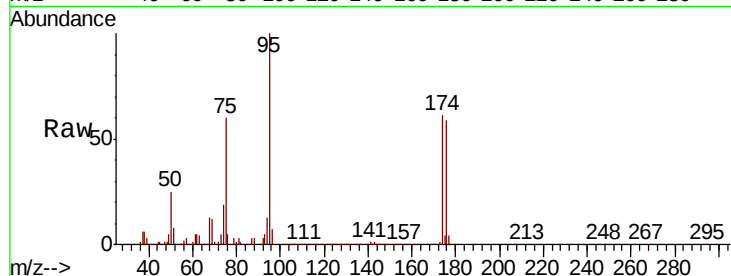




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.744 ppbv
 RT: 14.43 min Scan# 3620
 Delta R.T. 0.00 min
 Lab File: VL036607.D
 Acq: 31 Mar 2021 18:29

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 2417617
 Ion Ratio Lower Upper
 95 100
 174 65.4 51.0 76.6
 175 4.8 3.9 5.9



#74
 1,2,4-Trimethylbenzene
 Concen: 0.050 ppbv
 RT: 16.78 min Scan# 4353
 Delta R.T. 0.01 min
 Lab File: VL036607.D
 Acq: 31 Mar 2021 18:29

Tgt Ion: 105 Resp: 20777
 Ion Ratio Lower Upper
 105 100
 120 54.7 39.2 58.8
 91 44.2 42.6 64.0
 77 23.2 18.6 28.0

