

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112420\
 Data File : VL036014.D
 Acq On : 25 Nov 2020 4:16
 Operator : SY/AP
 Sample : L4883-03 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 25 07:18:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1242120	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	4308517	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	4088211	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	3326081	11.45	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	114.50%

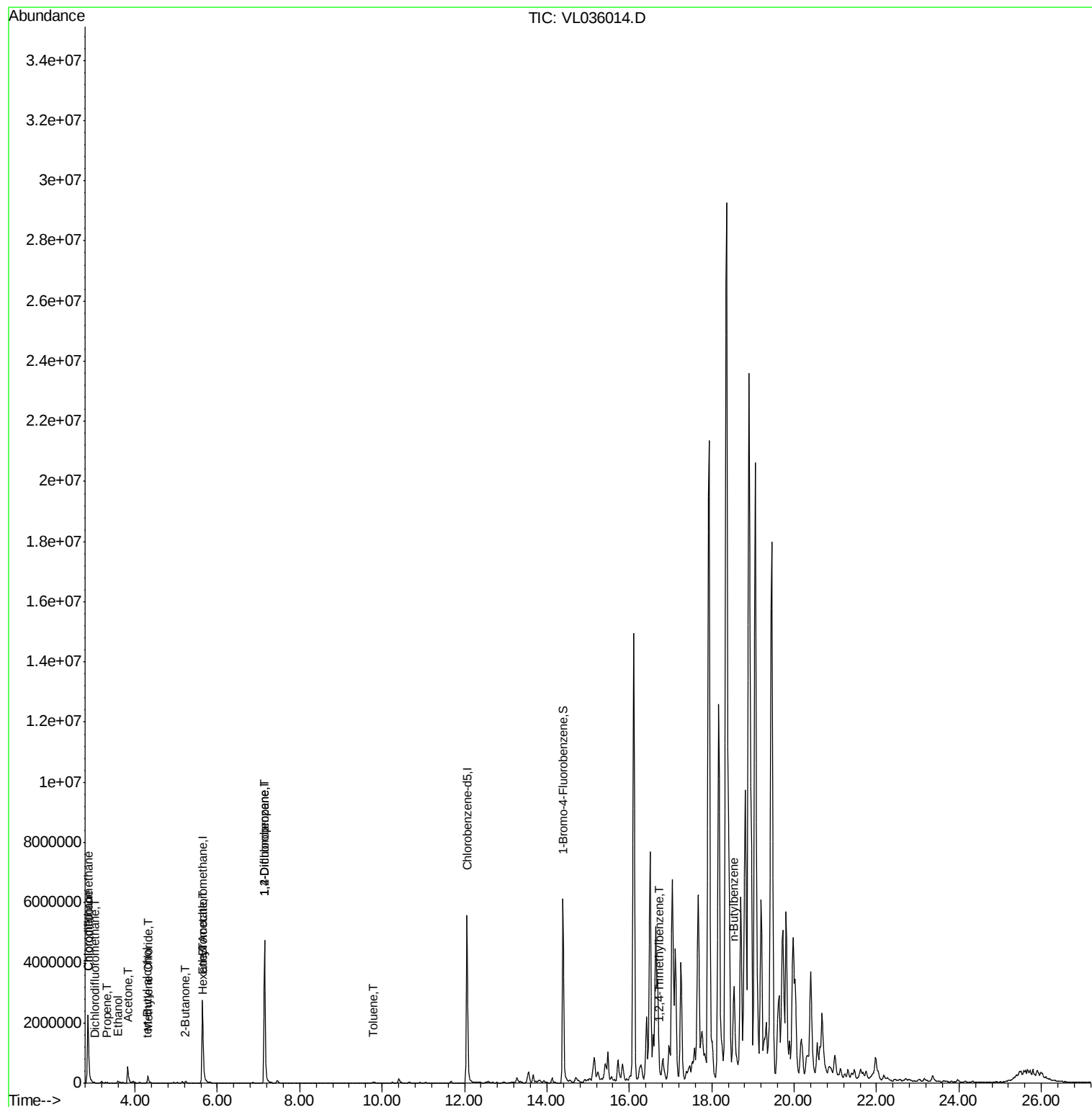
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	11019	0.047	ppbv	98
3) Chlorodifluoromethane	2.86	51	2405500	16.172	ppbv #	55
4) Chloromethane	2.86	50	156725	2.169	ppbv #	1
9) Propene	3.33	41	2566	0.047	ppbv	89
13) Ethanol	3.59	45	101218	8.570	ppbv	98
15) Acetone	3.83	43	689534	5.193	ppbv	98
17) tert-Butyl alcohol	4.29	59	10600	0.060	ppbv #	72
20) Methylene Chloride	4.32	84	122713	1.313	ppbv	97
25) Ethyl Acetate	5.66	43	28889	0.110	ppbv #	75
26) Hexane	5.66	57	17589	0.122	ppbv #	1
34) 2-Butanone	5.22	43	60163	0.430	ppbv #	88
39) 1,2-Dichloropropane	7.14	63	898121	8.328	ppbv #	31
53) Toluene	9.78	91	20202	0.052	ppbv #	40
70) n-Butylbenzene	18.54	91	87006	0.139	ppbv	100
74) 1,2,4-Trimethylbenzene	16.74	105	31777	0.065	ppbv #	67

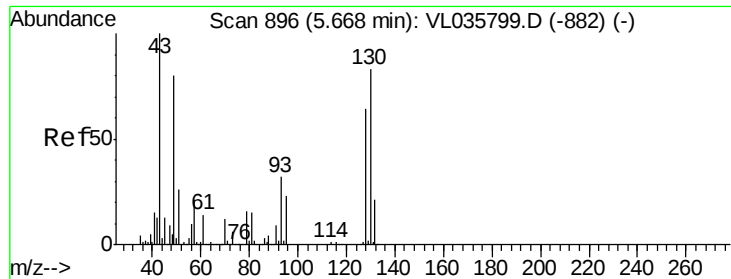
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 25 07:18:52 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 04 02:40:06 2020
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL036014.D

Acq: 25 Nov 2020 4:16

Instrument :
MSVOA_L
ClientSampleId :

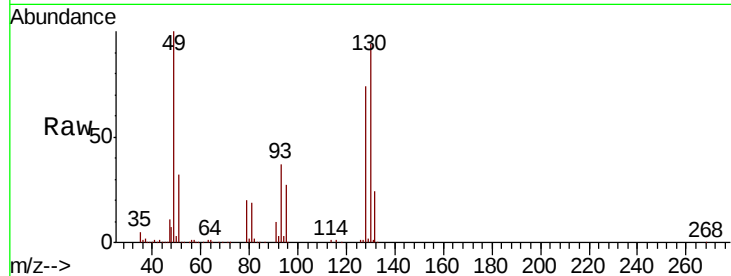
Tot Ion: 49 Resp: 1242120

Ion Ratio Lower Upper

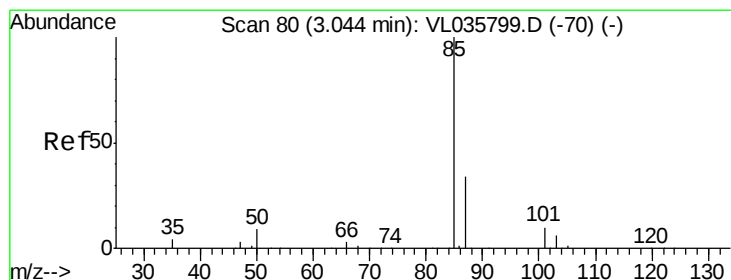
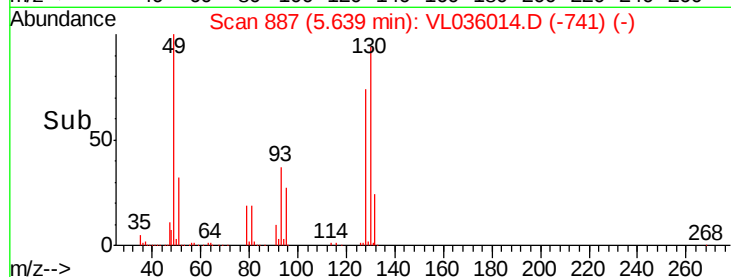
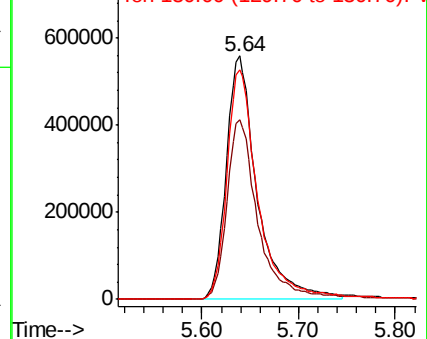
49 100

128 75.7 41.5 124.6

130 97.2 53.7 161.1



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: 0.047 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL036014.D

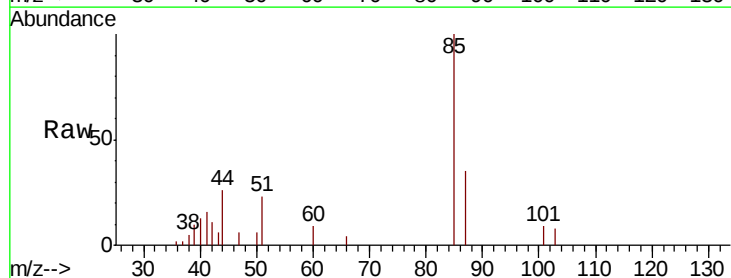
Acq: 25 Nov 2020 4:16

Tgt Ion: 85 Resp: 11019

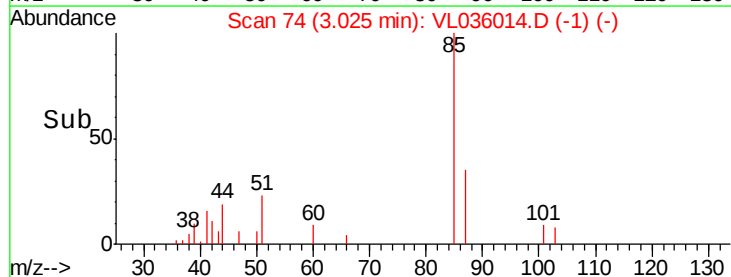
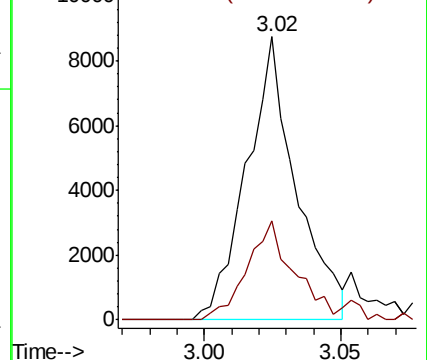
Ion Ratio Lower Upper

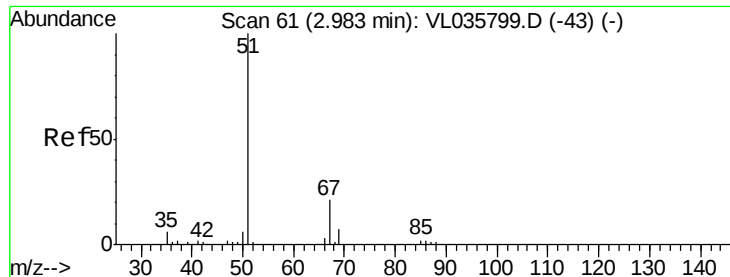
85 100

87 35.2 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0

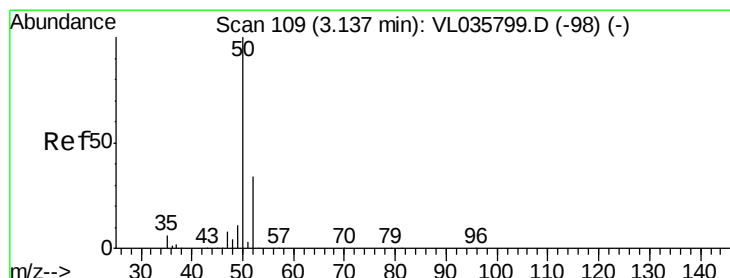
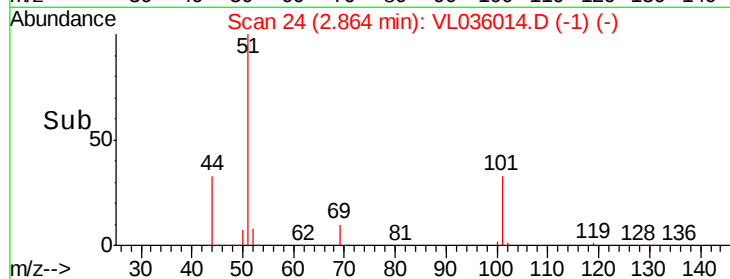
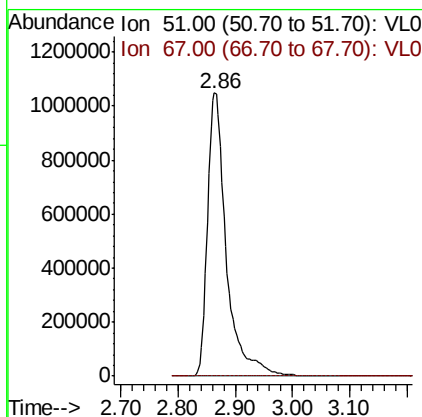
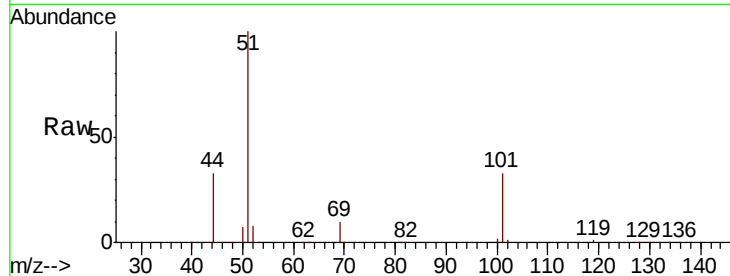




#3
 Chlorodifluoromethane
 Concen: 16.172 ppbv
 RT: 2.86 min Scan# 24
 Delta R.T. -0.12 min
 Lab File: VL036014.D
 Acq: 25 Nov 2020 4:16

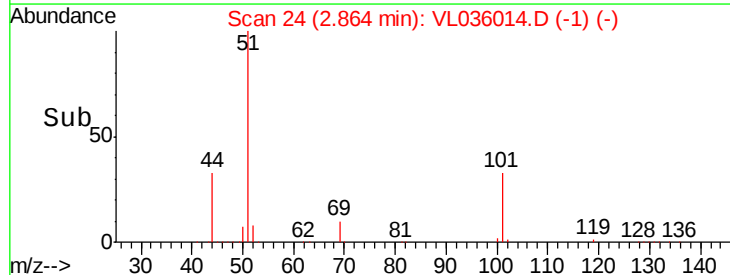
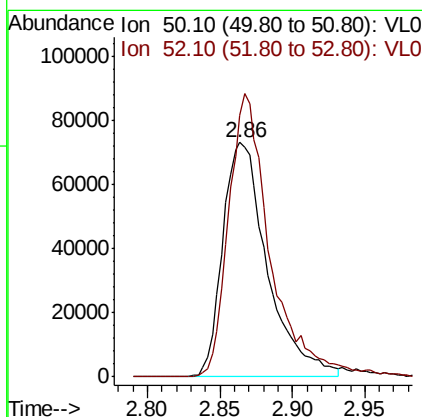
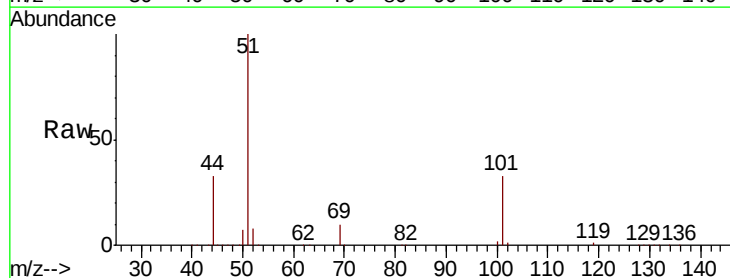
Instrument :
 MSVOA_L
 ClientSampled :

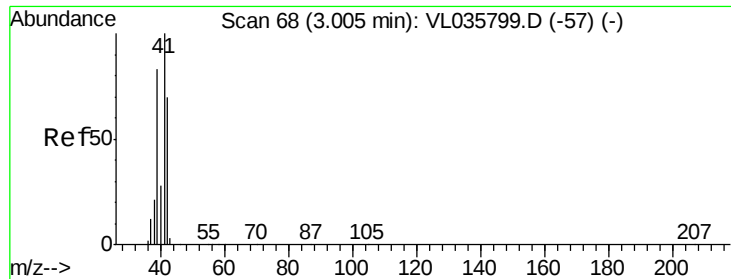
Tot Ion: 51 Resp: 2405500
 Ion Ratio Lower Upper
 51 100
 67 0.1 17.0 25.4#



#4
 Chloromethane
 Concen: 2.169 ppbv
 RT: 2.86 min Scan# 24
 Delta R.T. -0.27 min
 Lab File: VL036014.D
 Acq: 25 Nov 2020 4:16

Tgt Ion: 50 Resp: 156725
 Ion Ratio Lower Upper
 50 100
 52 111.6 27.1 40.7#





#9

Propene

Concen: 0.047 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.32 min

Lab File: VL036014.D

Acq: 25 Nov 2020 4:16

Instrument :

MSVOA_L

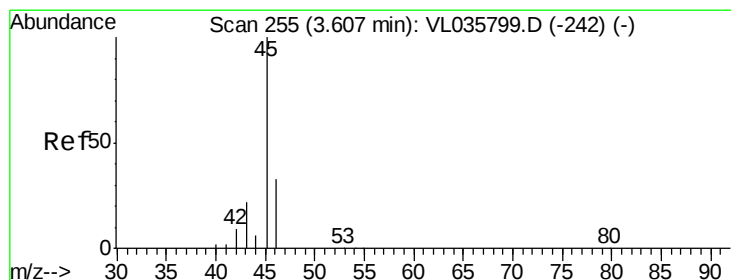
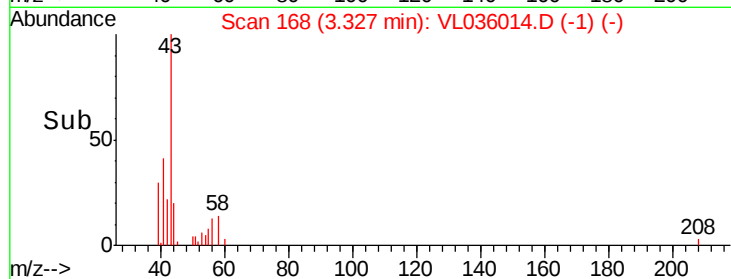
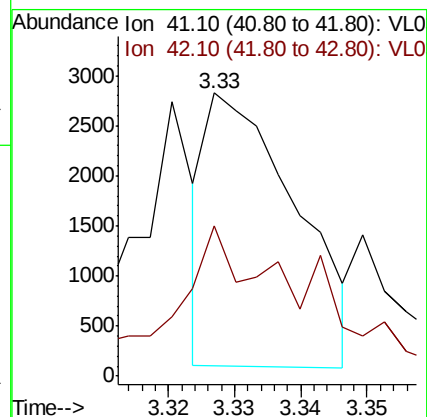
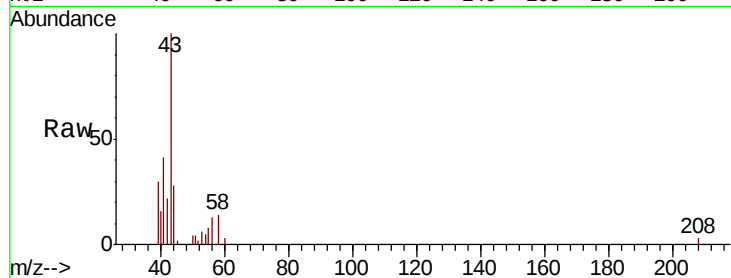
ClientSampleId :

Tot Ion: 41 Resp: 2566

Ion Ratio Lower Upper

41 100

42 79.4 56.2 84.4



#13

Ethanol

Concen: 8.570 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.02 min

Lab File: VL036014.D

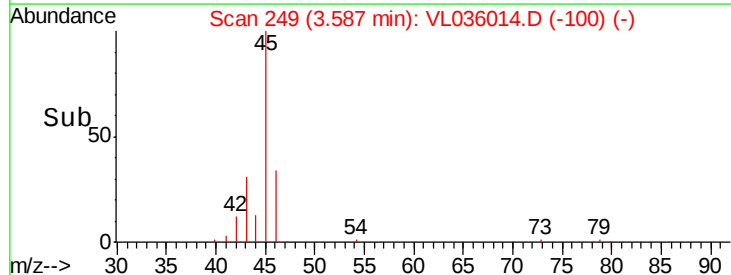
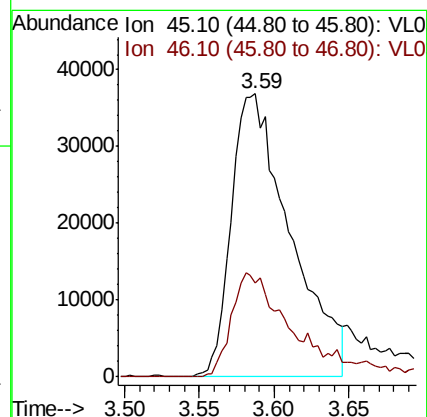
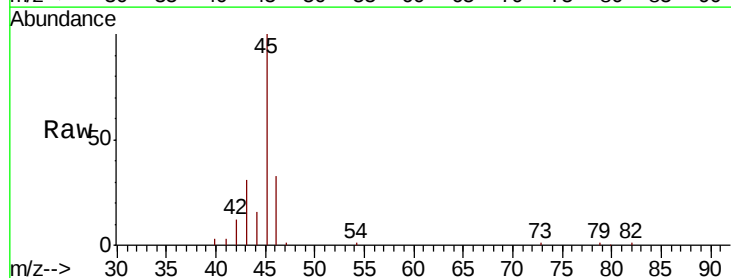
Acq: 25 Nov 2020 4:16

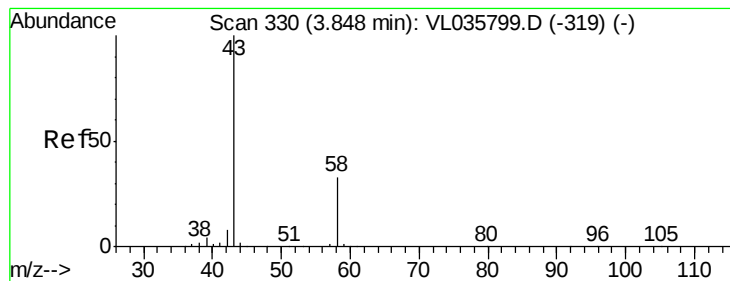
Tgt Ion: 45 Resp: 101218

Ion Ratio Lower Upper

45 100

46 41.8 16.1 64.5





#15

Acetone

Concen: 5.193 ppbv

RT: 3.83 min Scan# 323

Delta R.T. -0.02 min

Lab File: VL036014.D

Acq: 25 Nov 2020 4:16

Instrument :

MSVOA_L

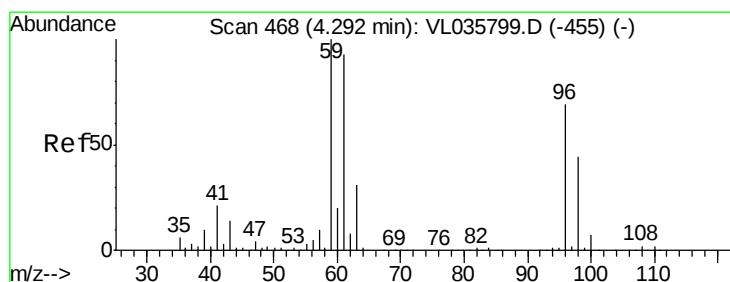
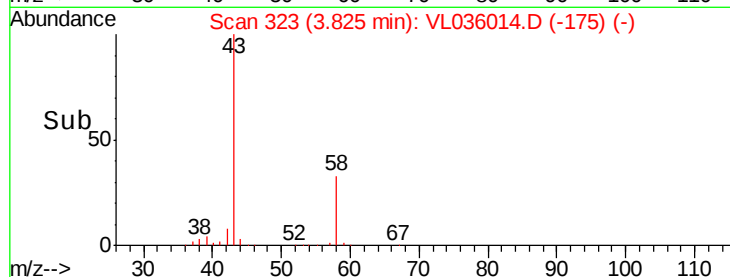
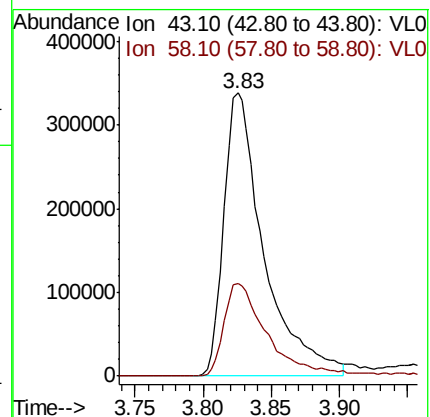
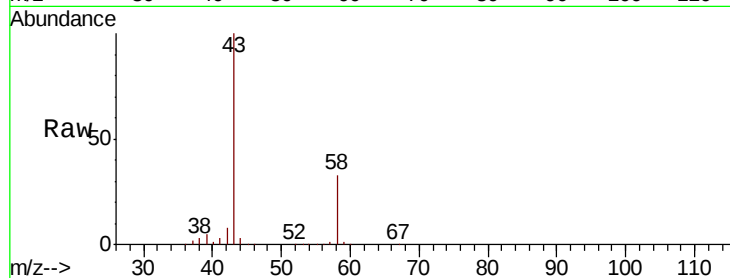
ClientSampleId :

Tot Ion: 43 Resp: 689534

Ion Ratio Lower Upper

43 100

58 35.8 27.5 41.3



#17

tert-Butyl alcohol

Concen: 0.060 ppbv

RT: 4.29 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL036014.D

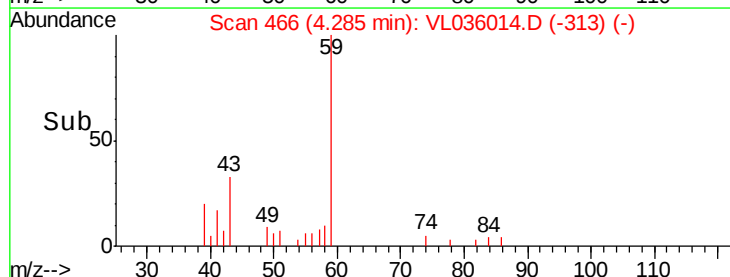
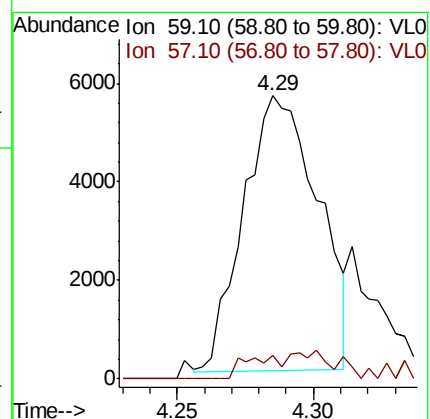
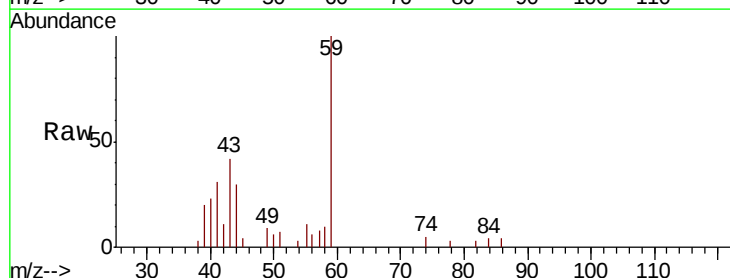
Acq: 25 Nov 2020 4:16

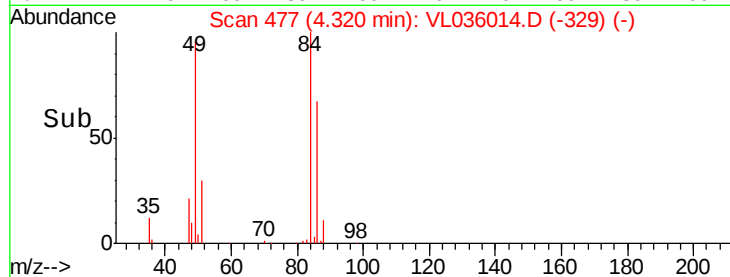
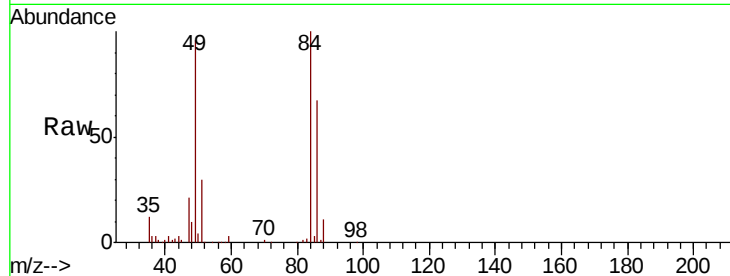
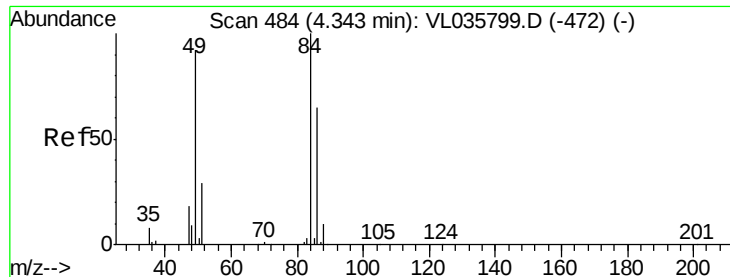
Tgt Ion: 59 Resp: 10600

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#

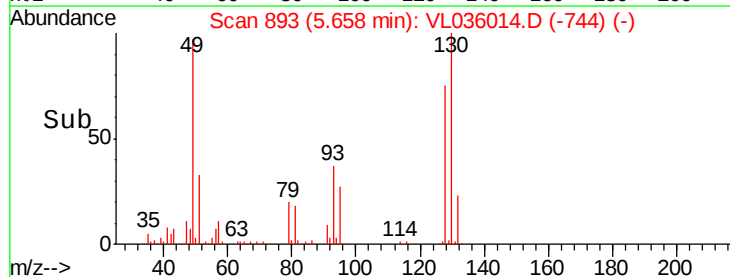
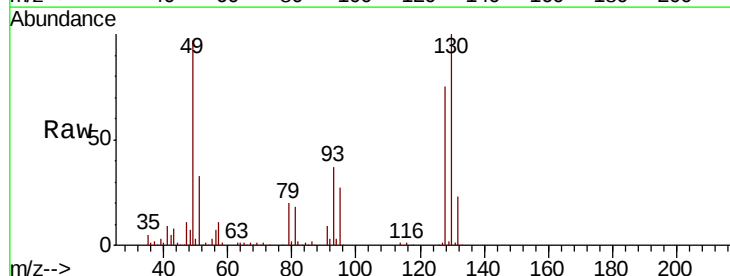
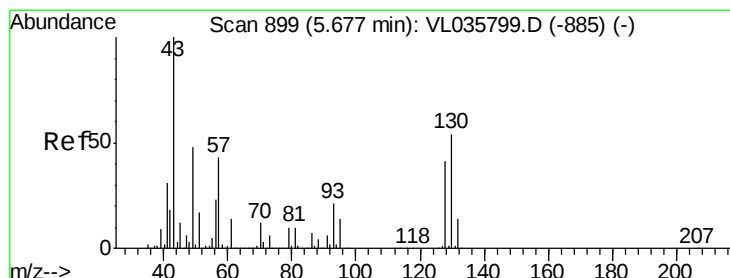
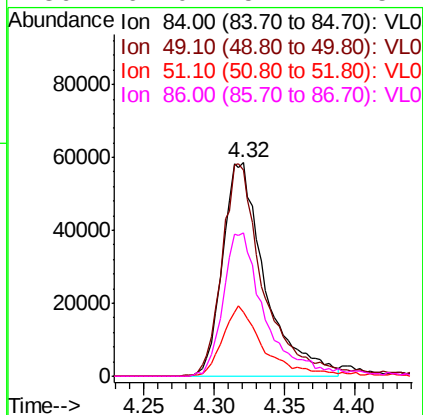




#20
Methylene Chloride
Concen: 1.313 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.02 min
Lab File: VL036014.D
Acq: 25 Nov 2020 4:16

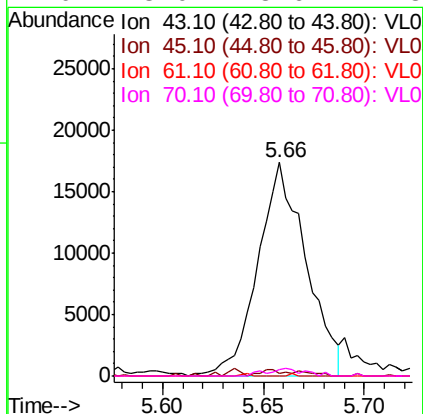
Instrument :
MSVOA_L
ClientSampleId :

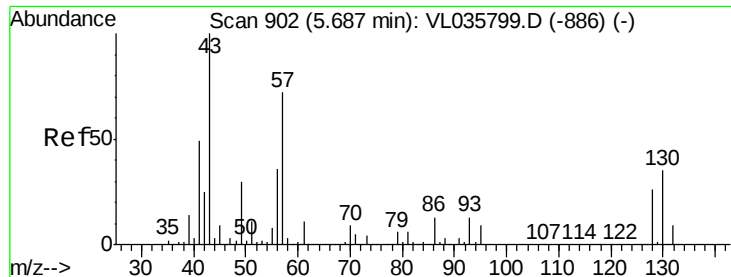
Tot Ion:	84	Resp:	122713
Ion	Ratio	Lower	Upper
84	100		
49	96.0	73.8	110.8
51	30.0	23.0	34.4
86	67.0	52.1	78.1



#25
Ethyl Acetate
Concen: 0.110 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL036014.D
Acq: 25 Nov 2020 4:16

Tgt Ion:	43	Resp:	28889
Ion	Ratio	Lower	Upper
43	100		
45	3.6	8.5	12.7#
61	0.3	10.7	16.1#
70	3.0	8.6	12.8#

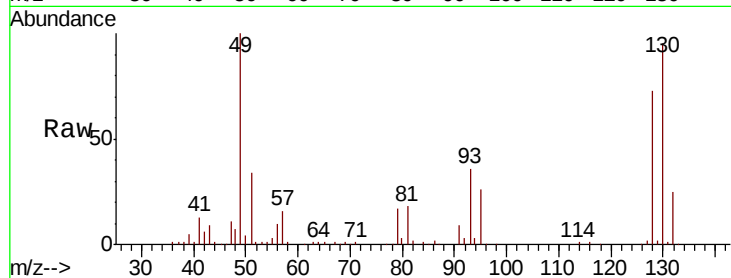




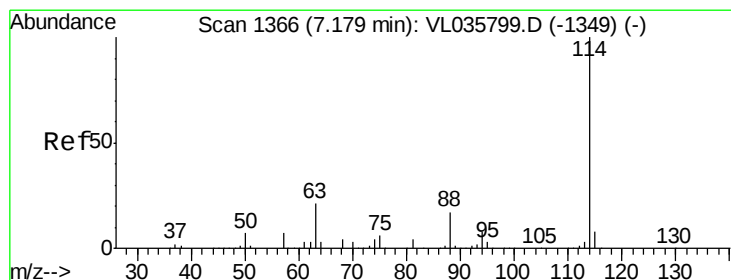
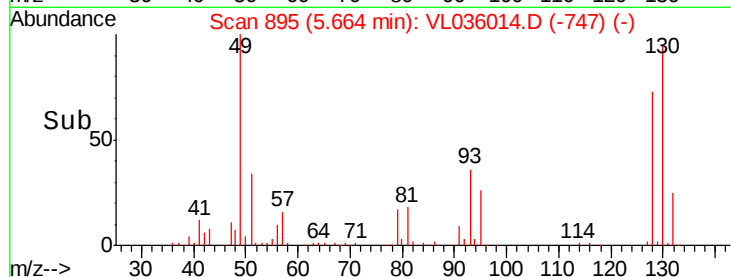
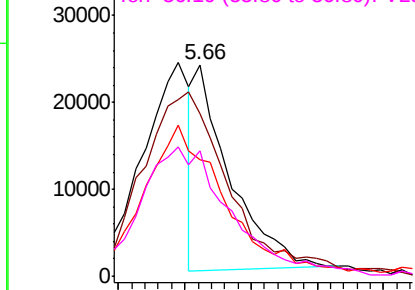
#26
Hexane
Concen: 0.122 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL036014.D
Acq: 25 Nov 2020 4:16

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 17589
Ion Ratio Lower Upper
57 100
41 230.5 58.9 88.3#
43 0.0 150.2 225.2#
56 0.0 42.4 63.6#

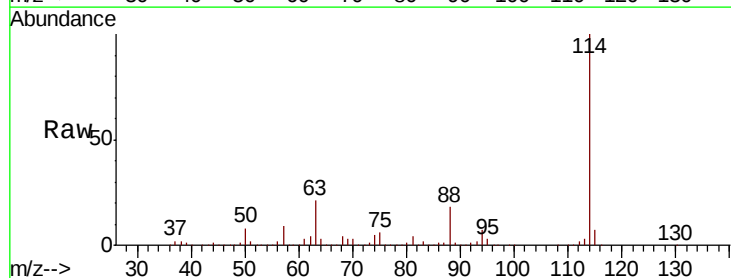


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

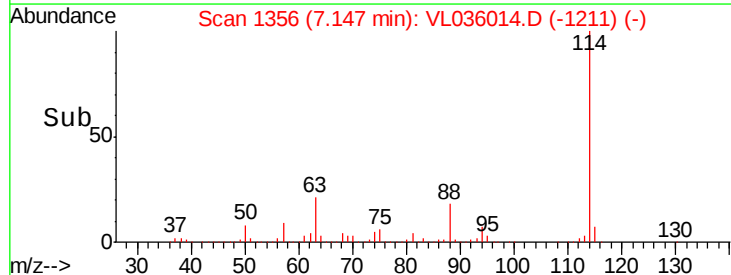
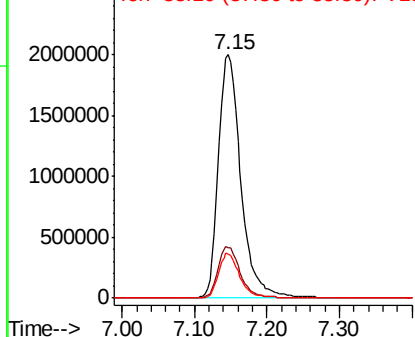


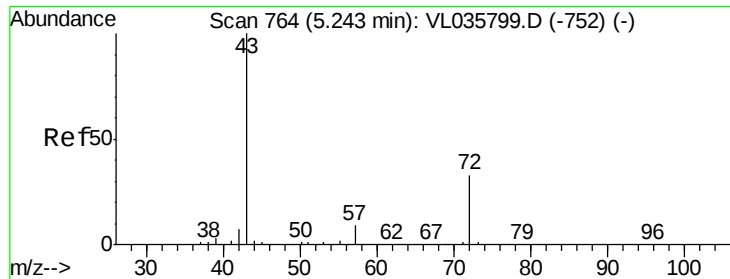
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.03 min
Lab File: VL036014.D
Acq: 25 Nov 2020 4:16

Tgt Ion: 114 Resp: 4308517
Ion Ratio Lower Upper
114 100
63 21.1 16.1 24.1
88 17.5 13.7 20.5



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

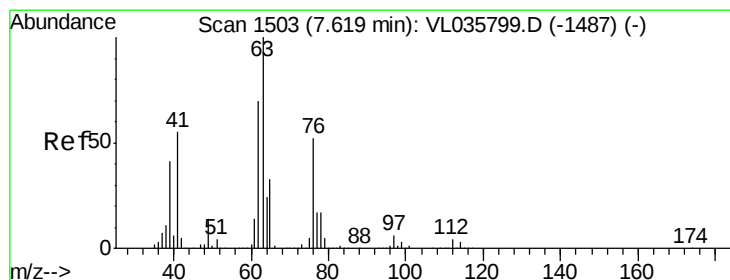
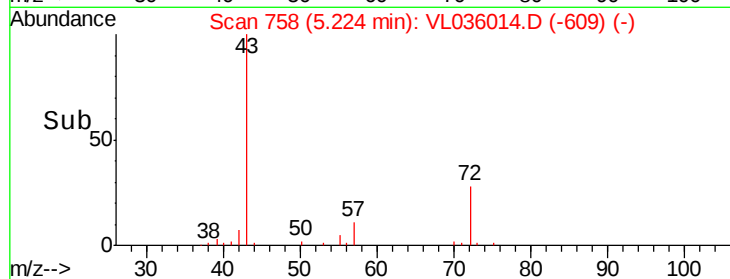
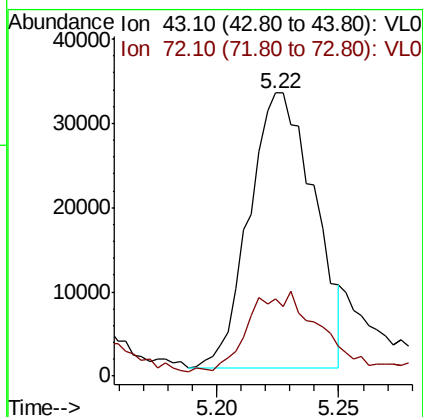
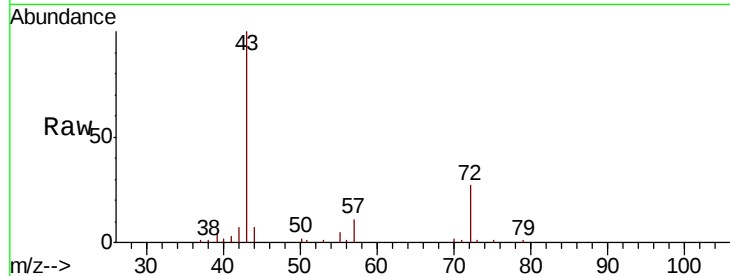




#34
2-Butanone
Concen: 0.430 ppbv
RT: 5.22 min Scan# 758
Delta R.T. -0.02 min
Lab File: VL036014.D
Acq: 25 Nov 2020 4:16

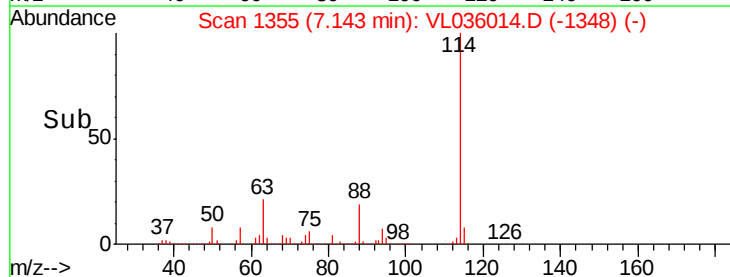
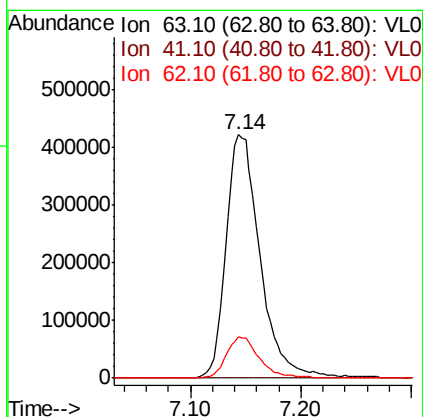
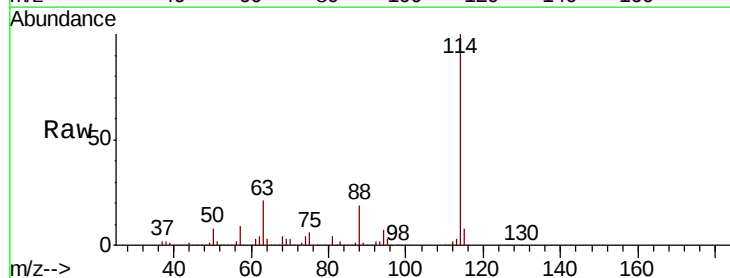
Instrument :
MSVOA_L
ClientSampleId :

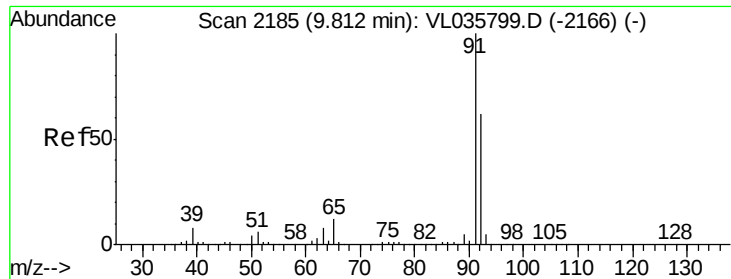
Tot Ion: 43 Resp: 60163
Ion Ratio Lower Upper
43 100
72 39.8 26.5 39.7#



#39
1,2-Dichloropropane
Concen: 8.328 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. -0.48 min
Lab File: VL036014.D
Acq: 25 Nov 2020 4:16

Tgt Ion: 63 Resp: 898121
Ion Ratio Lower Upper
63 100
41 0.1 43.8 65.6#
62 17.3 56.2 84.2#





#53

Toluene

Concen: 0.052 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.04 min

Lab File: VL036014.D

Acq: 25 Nov 2020 4:16

Instrument :

MSVOA_L

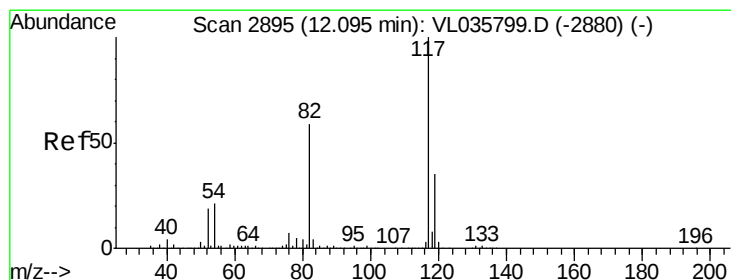
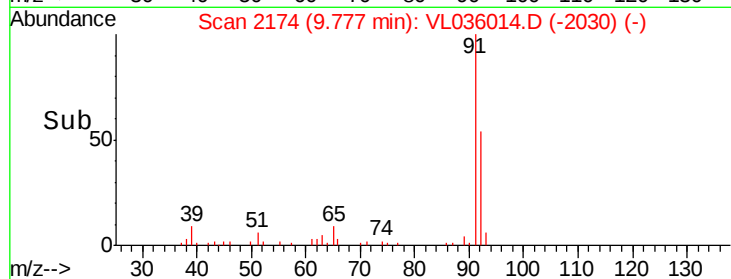
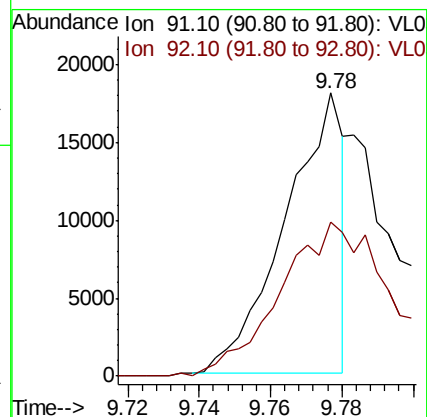
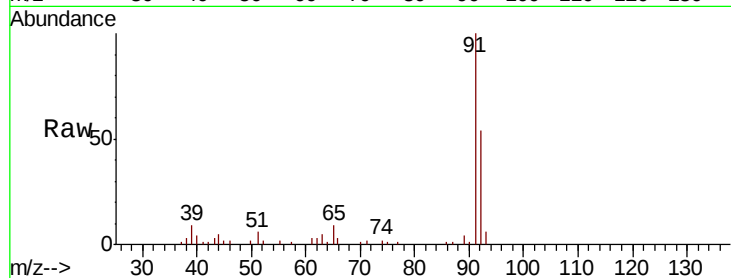
ClientSampled :

Tot Ion: 91 Resp: 20202

Ion Ratio Lower Upper

91 100

92 108.5 49.8 74.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.04 min

Lab File: VL036014.D

Acq: 25 Nov 2020 4:16

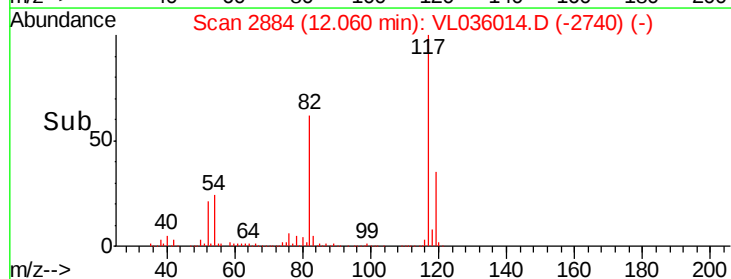
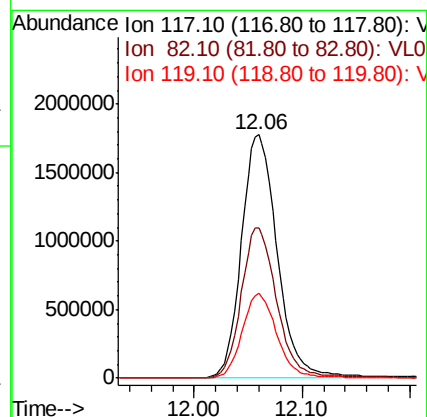
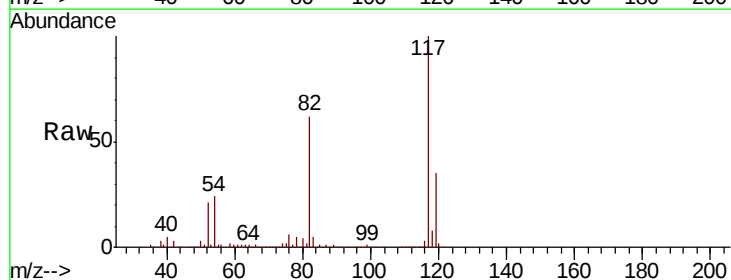
Tgt Ion: 117 Resp: 4088211

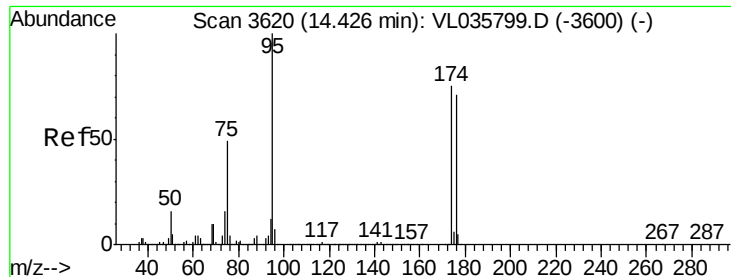
Ion Ratio Lower Upper

117 100

82 62.6 50.6 76.0

119 34.4 52.6 78.8#

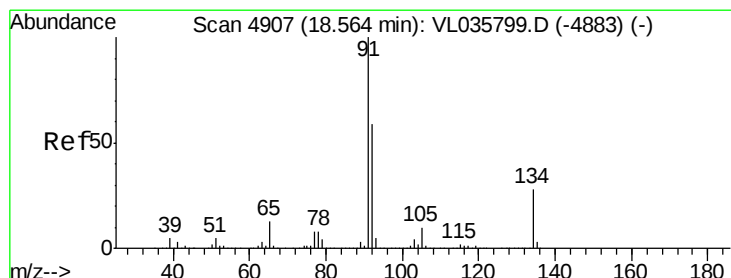
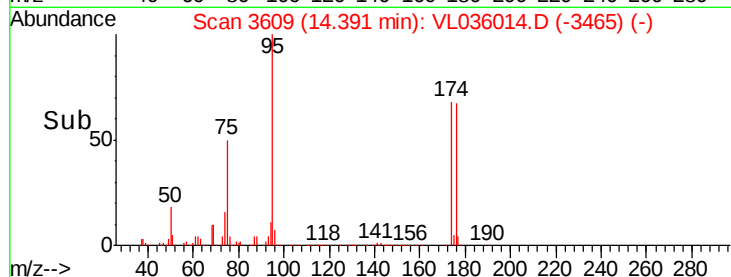
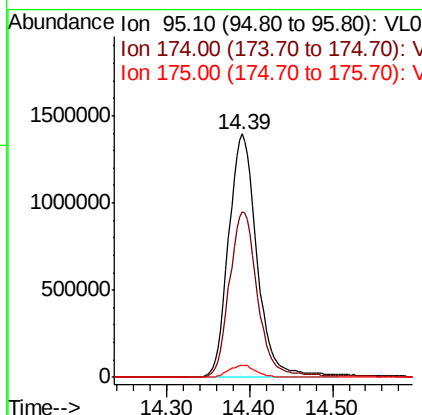
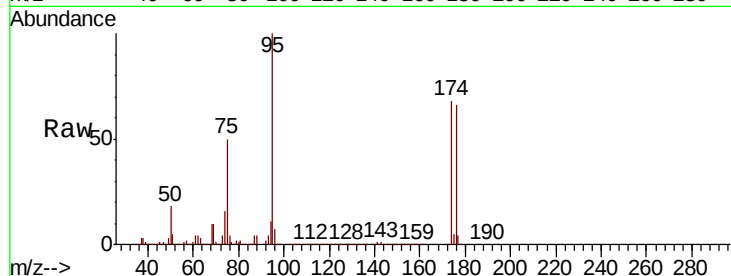




#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.451 ppbv
 RT: 14.39 min Scan# 3609
 Delta R.T. -0.04 min
 Lab File: VL036014.D
 Acq: 25 Nov 2020 4:16

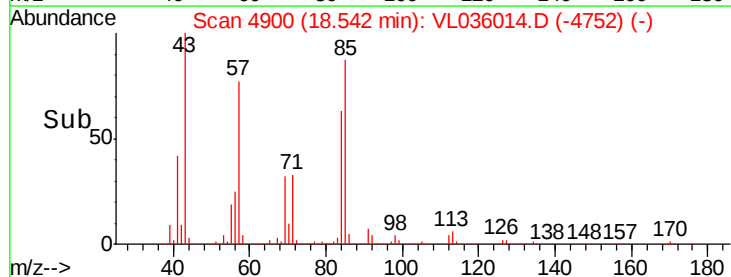
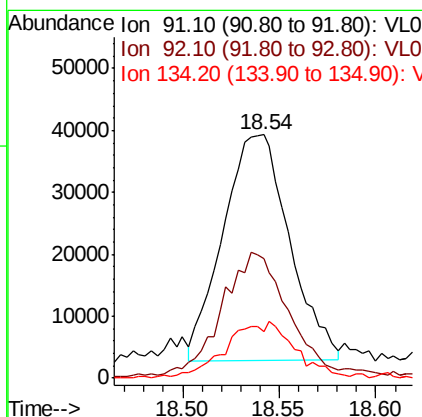
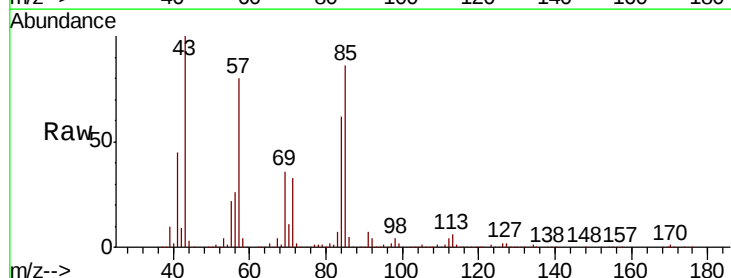
Instrument :
 MSVOA_L
 ClientSampleId :

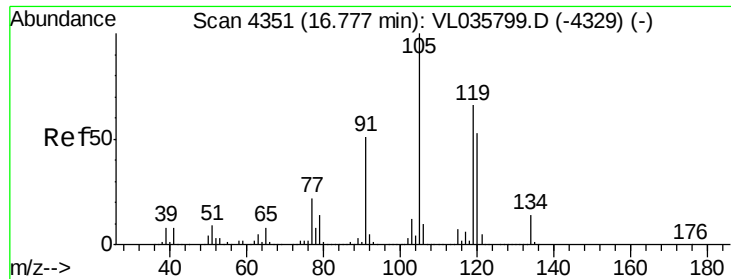
Tot Ion: 95 Resp: 3326081
 Ion Ratio Lower Upper
 95 100
 174 69.1 59.8 89.6
 175 4.9 4.3 6.5



#70
 n-Butylbenzene
 Concen: 0.139 ppbv
 RT: 18.54 min Scan# 4900
 Delta R.T. -0.02 min
 Lab File: VL036014.D
 Acq: 25 Nov 2020 4:16

Tgt Ion: 91 Resp: 87006
 Ion Ratio Lower Upper
 91 100
 92 57.0 45.7 68.5
 134 26.9 21.0 31.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.065 ppbv
 RT: 16.74 min Scan# 4340
 Delta R.T. -0.04 min
 Lab File: VL036014.D
 Acq: 25 Nov 2020 4:16

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	31777
Ion	Ratio	Lower	Upper
105	100		
120	44.6	42.0	63.0
91	10.7	41.0	61.6#
77	9.8	17.3	25.9#

