

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
 Data File : VL037816.D
 Acq On : 8 Oct 2021 4:17
 Operator : SY/AP
 Sample : M4079-11
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P10

Quant Time: Oct 08 10:09:28 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1245784	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	3518759	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	3125798	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2221975	10.17	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

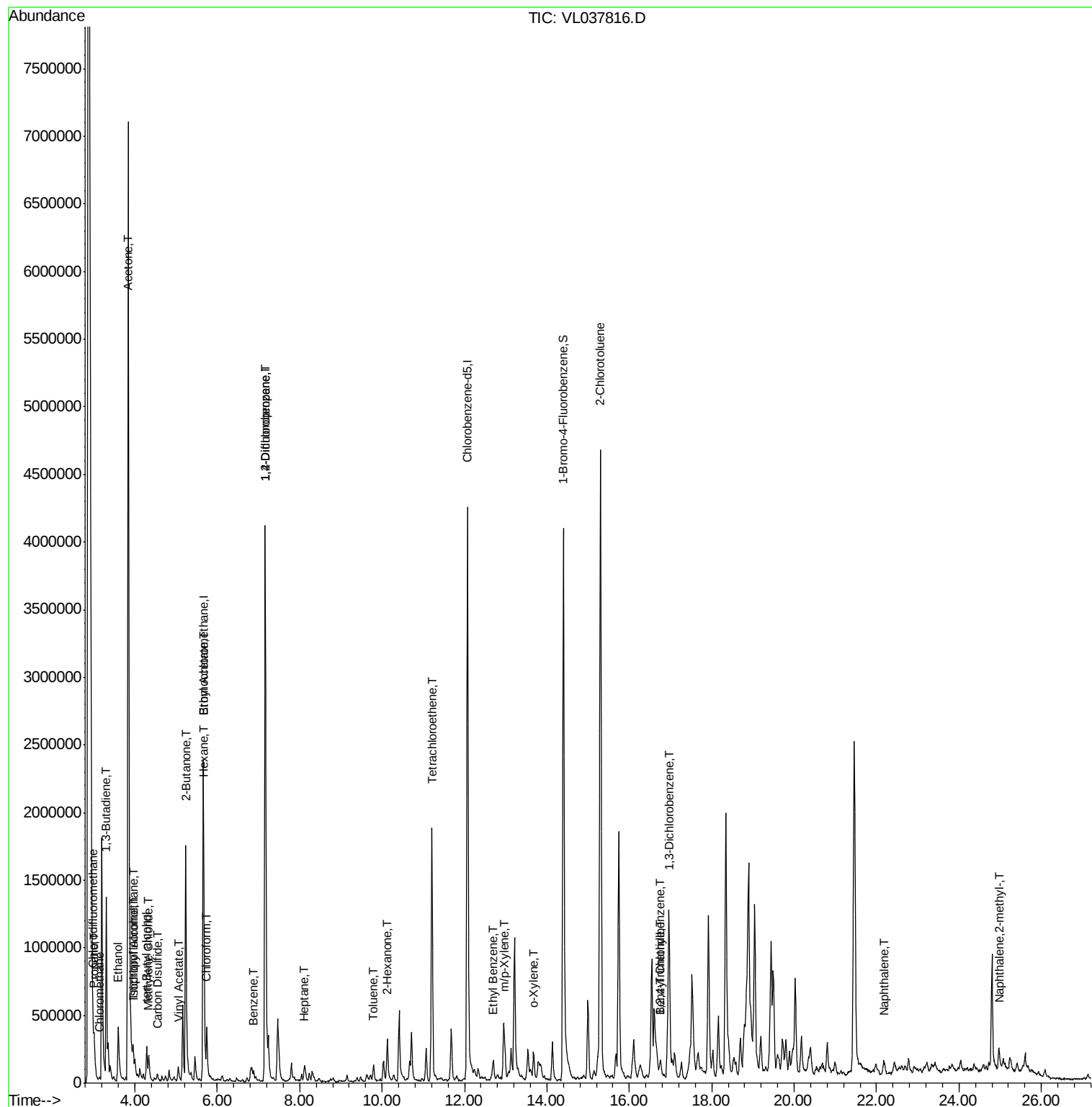
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.99	51	19519	0.082	ppbv	97
4) Chloromethane	3.14	50	4061	0.046	ppbv	91
9) Propene	3.01	41	105863	1.202	ppbv	98
10) Heptane	8.10	43	17516	0.088	ppbv #	27
11) Trichlorofluoromethane	3.94	101	34269	0.193	ppbv	87
13) Ethanol	3.59	45	559565	77.687	ppbv	82
15) Acetone	3.84	43	9419142	84.224	ppbv	94
16) 1,3-Butadiene	3.30	39	394586	4.849	ppbv #	19
17) tert-Butyl alcohol	4.29	59	236292	2.052	ppbv	99
19) Isopropyl Alcohol	3.96	45	165031	2.372	ppbv #	96
20) Methylene Chloride	4.34	84	57937	1.025	ppbv	92
23) Vinyl Acetate	5.05	43	79791	0.476	ppbv #	87
25) Ethyl Acetate	5.67	43	51978	0.166	ppbv #	84
26) Hexane	5.68	57	88426	0.572	ppbv #	49
27) Carbon Disulfide	4.54	76	30657	0.224	ppbv #	58
29) Chloroform	5.74	83	140968	0.638	ppbv	93
34) 2-Butanone	5.23	43	2347349	16.524	ppbv	98
36) Benzene	6.88	78	28053	0.093	ppbv	98
39) 1,2-Dichloropropane	7.17	63	813994	7.200	ppbv #	27
51) 2-Hexanone	10.13	43	271822	3.293	ppbv #	97
52) Tetrachloroethene	11.21	164	519217	4.440	ppbv	98
53) Toluene	9.79	91	37765	0.113	ppbv #	20
58) Ethyl Benzene	12.69	91	110192	0.263	ppbv	92
59) m/p-Xylene	12.98	91	94449	0.262	ppbv #	30
60) o-Xylene	13.68	91	153009	0.443	ppbv	99
66) Benzyl Chloride	16.74	91	1971	0.094	ppbv #	92
71) 2-Chlorotoluene	15.30	91	1121681	3.298	ppbv #	41
74) 1,2,4-Trimethylbenzene	16.74	105	30660	0.082	ppbv #	74
75) 1,3-Dichlorobenzene	16.98	146	25308	0.109	ppbv #	30
79) Naphthalene	22.18	128	30469	0.133	ppbv #	77
80) Naphthalene,2-methyl-	24.96	142	6802	0.111	ppbv	97

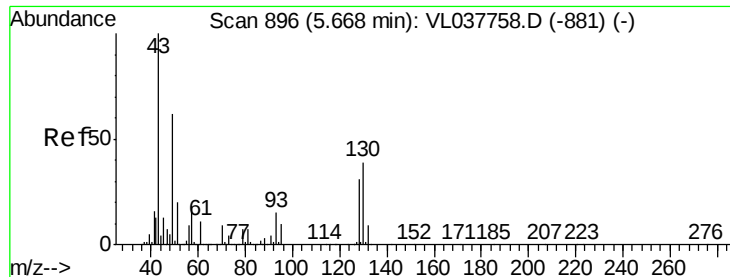
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL037816.D

Acq: 8 Oct 2021 4:17

Instrument :
MSVOA_L
ClientSampleId :
C0P10

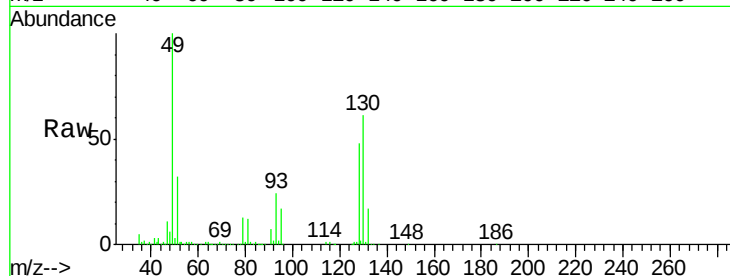
Tgt Ion: 49 Resp: 1245784

Ion Ratio Lower Upper

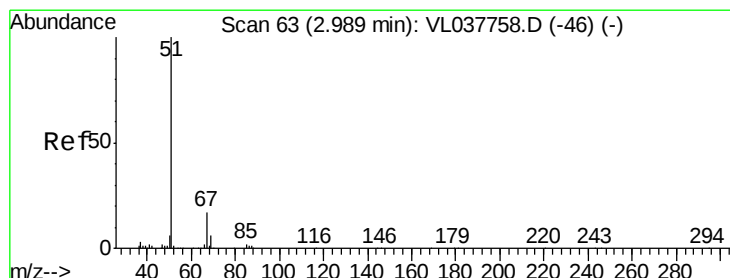
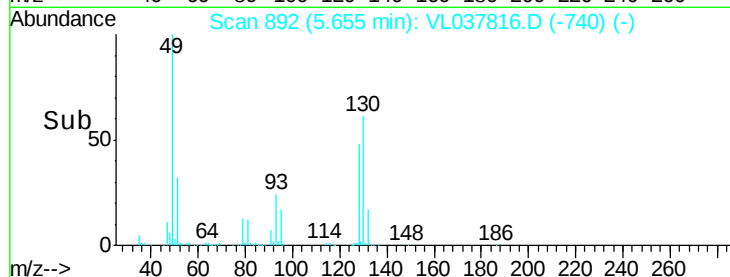
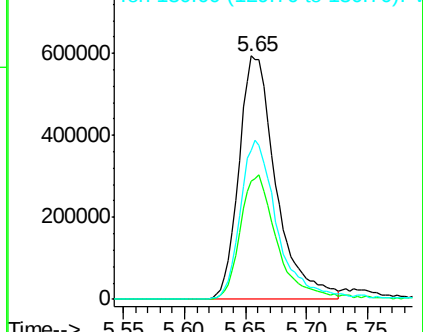
49 100

128 52.3 27.1 81.3

130 66.7 33.2 99.6



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



#3

Chlorodifluoromethane

Concen: 0.082 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL037816.D

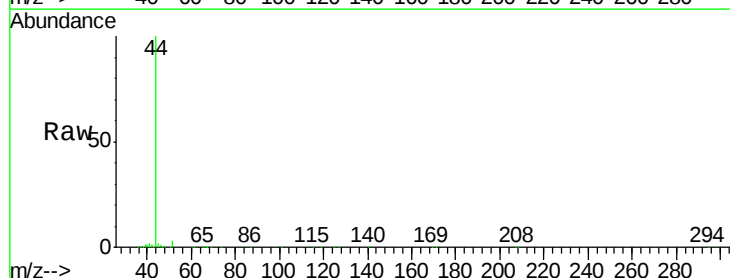
Acq: 8 Oct 2021 4:17

Tgt Ion: 51 Resp: 19519

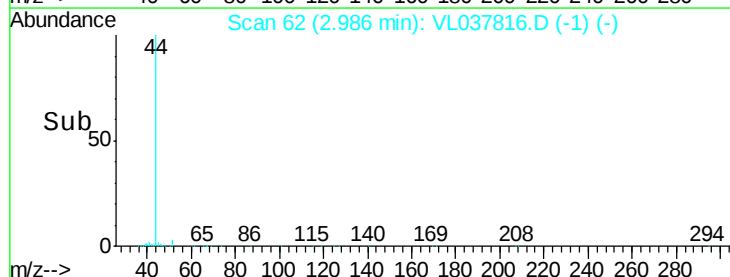
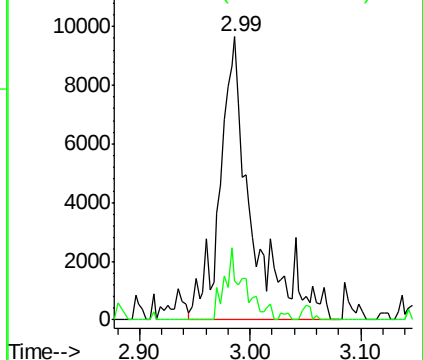
Ion Ratio Lower Upper

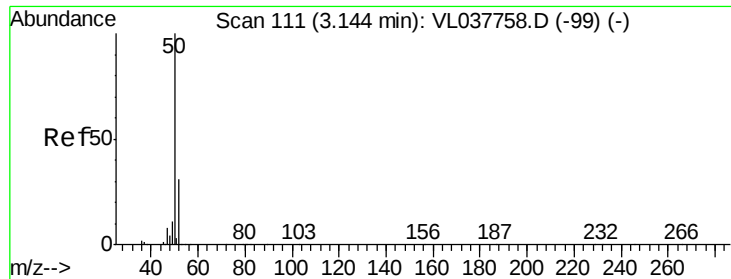
51 100

67 15.5 13.5 20.3



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.046 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL037816.D

Acq: 8 Oct 2021 4:17

Instrument :

MSVOA_L

ClientSampleId :

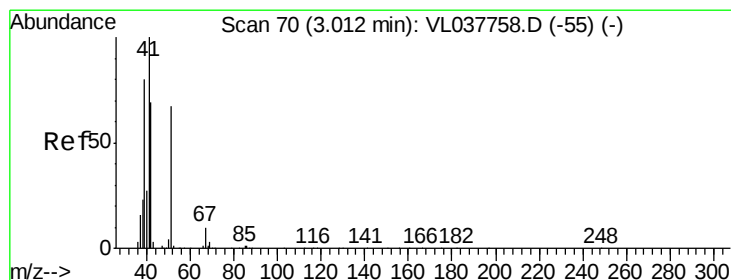
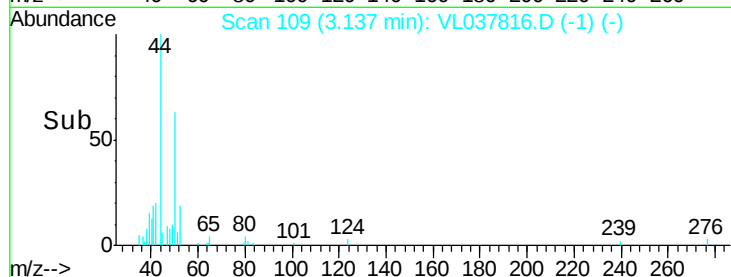
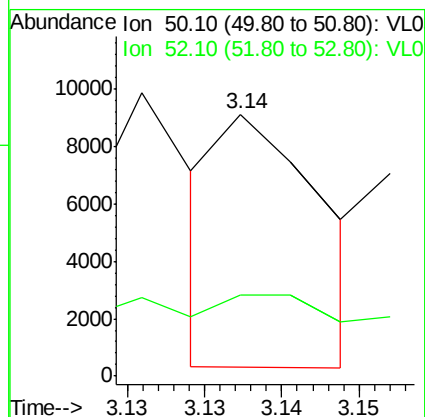
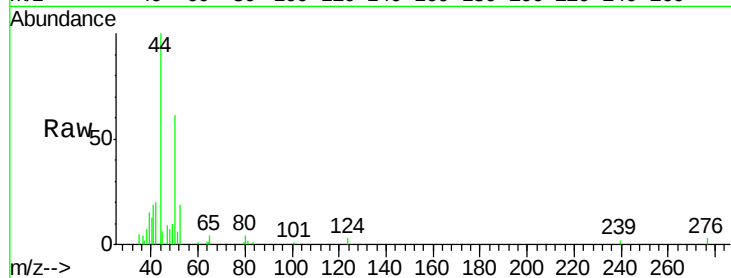
C0P10

Tgt Ion: 50 Resp: 4061

Ion Ratio Lower Upper

50 100

52 25.5 24.4 36.6



#9

Propene

Concen: 1.202 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037816.D

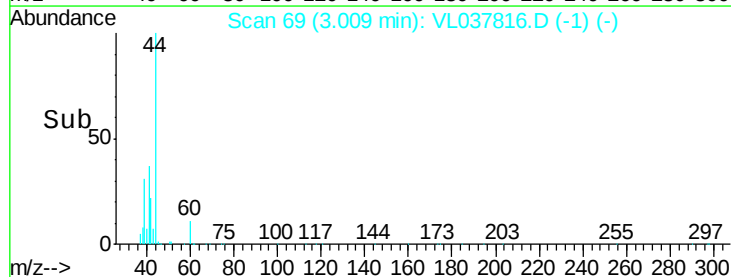
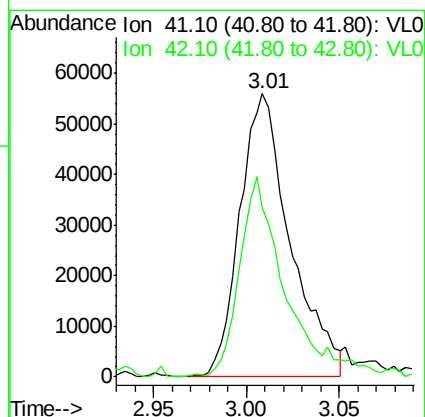
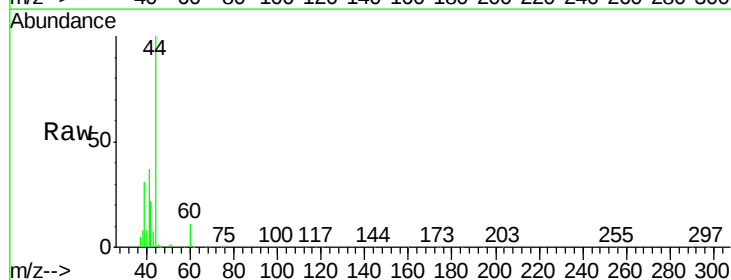
Acq: 8 Oct 2021 4:17

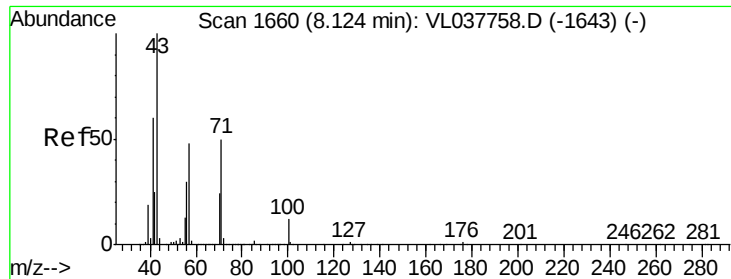
Tgt Ion: 41 Resp: 105863

Ion Ratio Lower Upper

41 100

42 65.7 54.2 81.2





#10

Heptane

Concen: 0.088 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. -0.02 min

Lab File: VL037816.D

Acq: 8 Oct 2021 4:17

Instrument :

MSVOA_L

ClientSampleId :

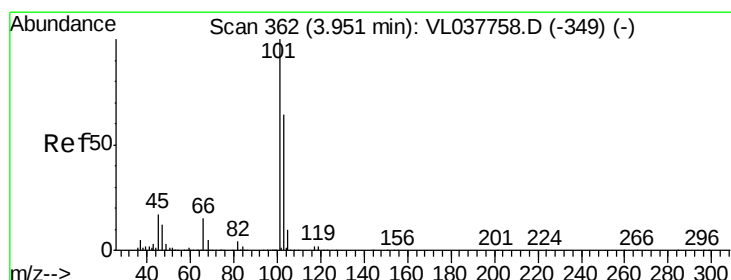
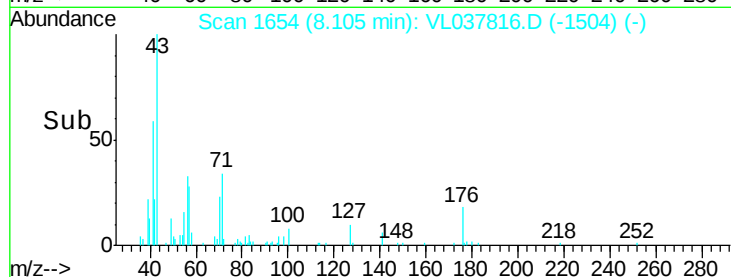
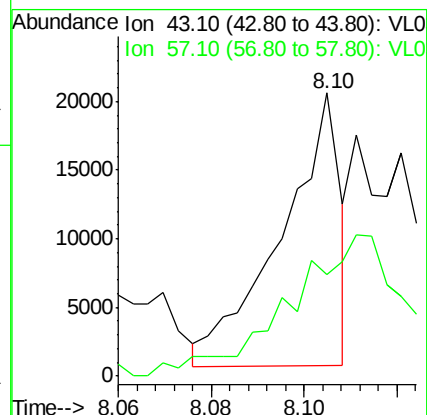
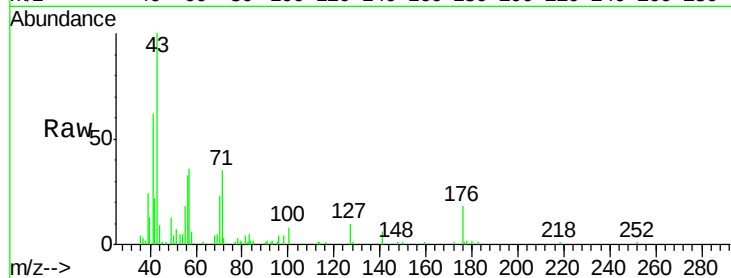
C0P10

Tgt Ion: 43 Resp: 17516

Ion Ratio Lower Upper

43 100

57 0.0 40.0 60.0#



#11

Trichlorofluoromethane

Concen: 0.193 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL037816.D

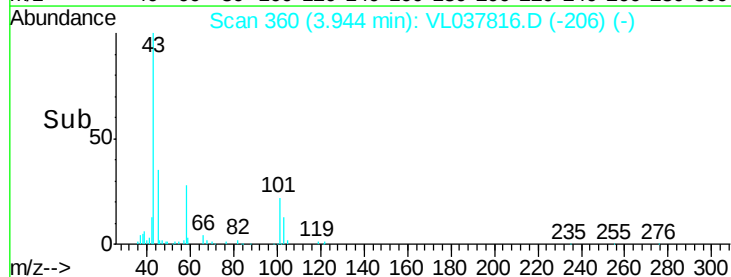
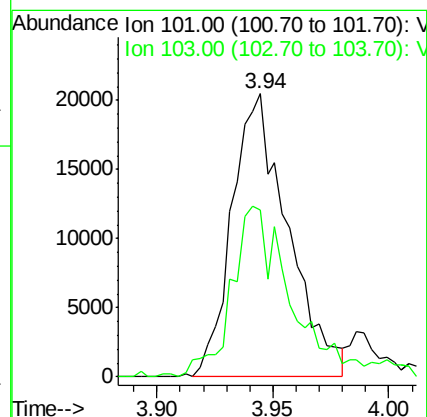
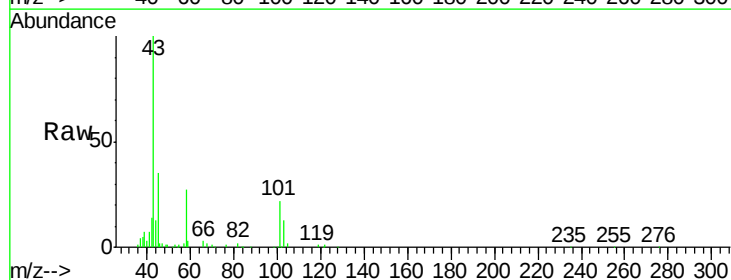
Acq: 8 Oct 2021 4:17

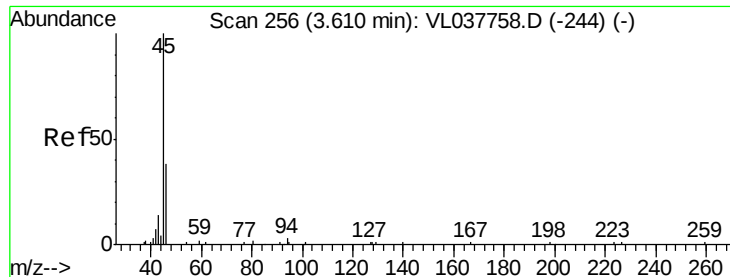
Tgt Ion: 101 Resp: 34269

Ion Ratio Lower Upper

101 100

103 54.1 51.5 77.3





#13

Ethanol

Concen: 77.687 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL037816.D

Acq: 8 Oct 2021 4:17

Instrument :

MSVOA_L

ClientSampleId :

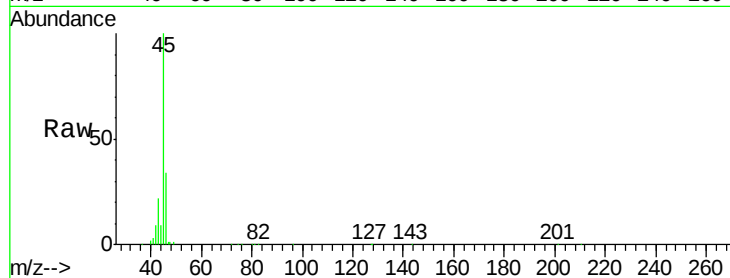
C0P10

Tgt Ion: 45 Resp: 559565

Ion Ratio Lower Upper

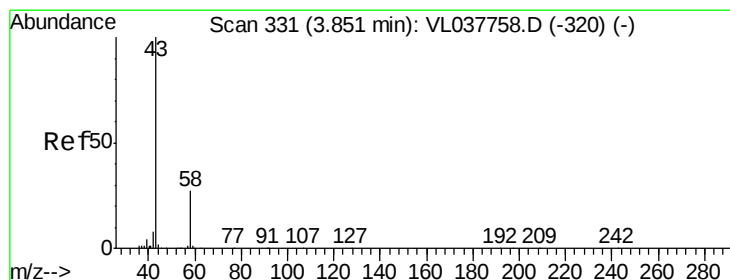
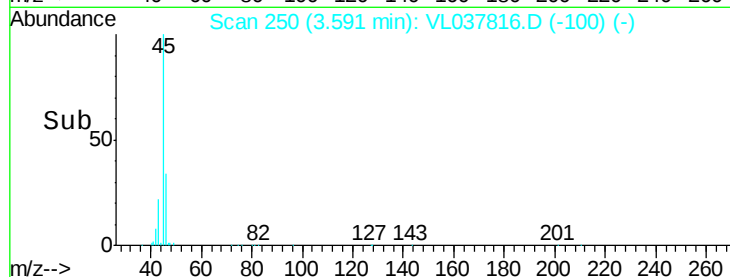
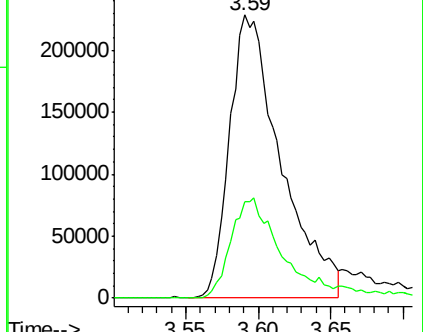
45 100

46 38.1 20.2 81.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 84.224 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL037816.D

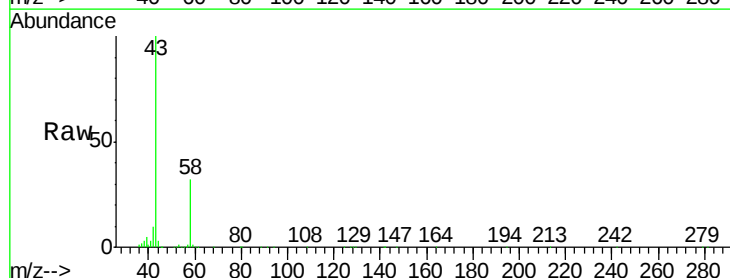
Acq: 8 Oct 2021 4:17

Tgt Ion: 43 Resp: 9419142

Ion Ratio Lower Upper

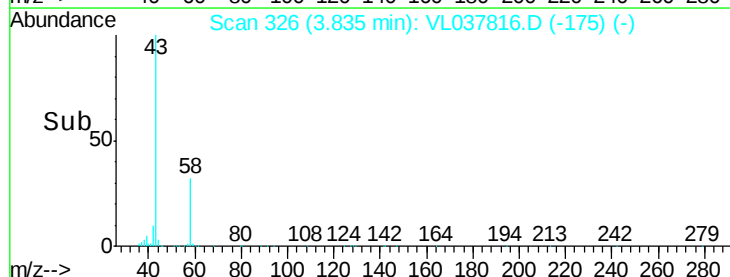
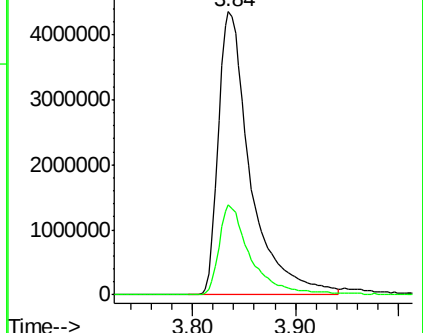
43 100

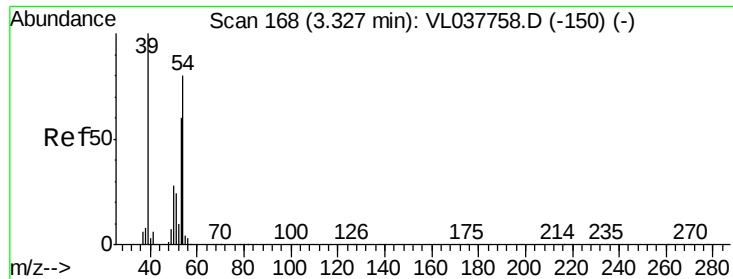
58 32.0 23.0 34.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

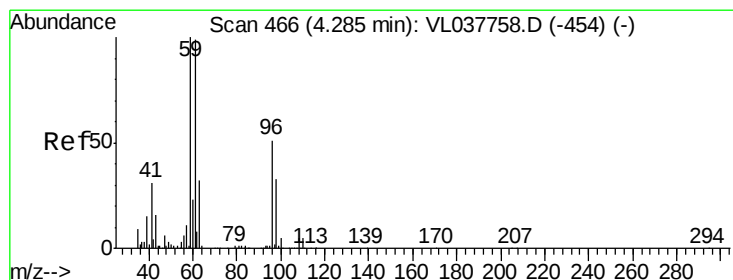
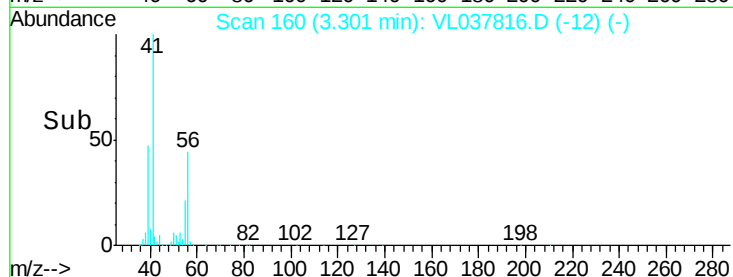
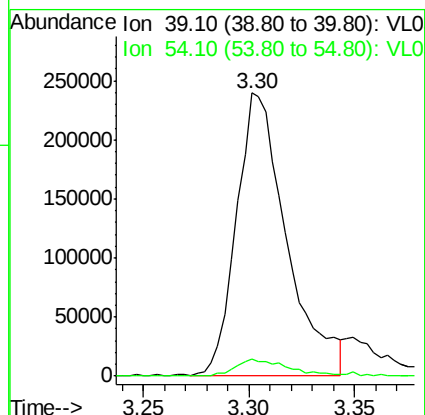
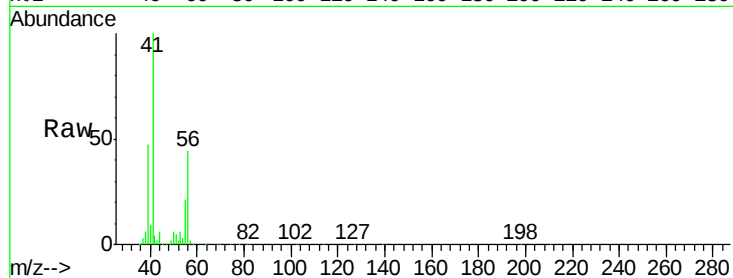




#16
 1,3-Butadiene
 Concen: 4.849 ppbv
 RT: 3.30 min Scan# 160
 Delta R.T. -0.03 min
 Lab File: VL037816.D
 Acq: 8 Oct 2021 4:17

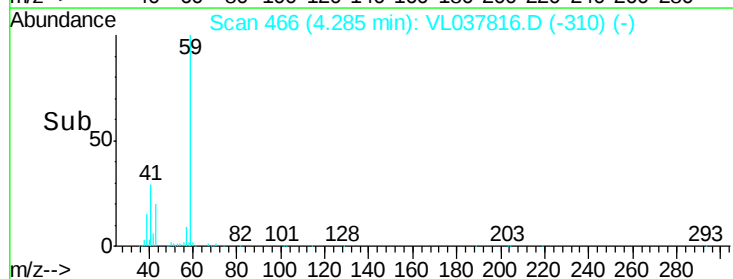
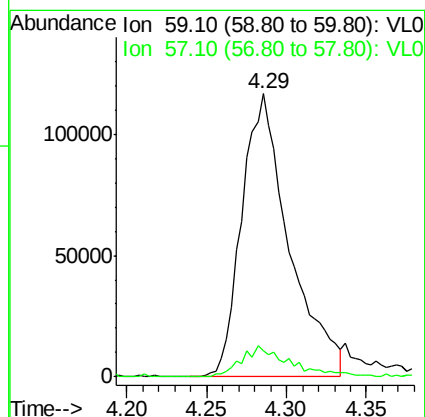
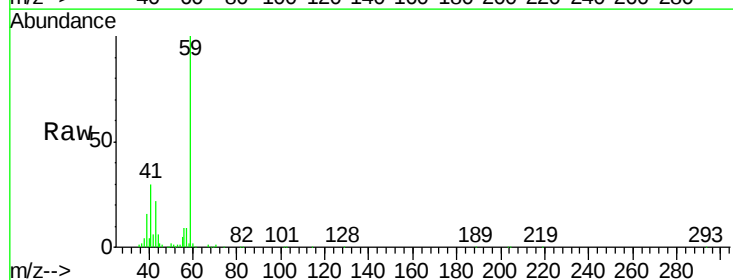
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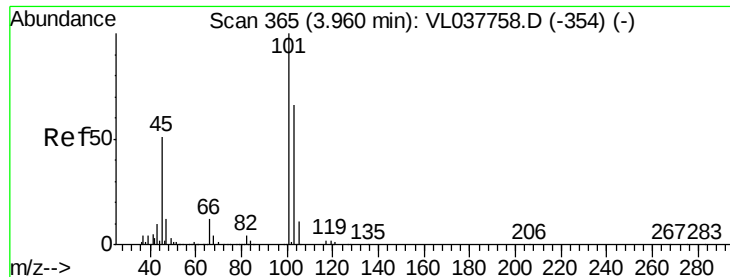
Tgt Ion: 39 Resp: 394586
 Ion Ratio Lower Upper
 39 100
 54 6.9 61.7 92.5#



#17
 tert-Butyl alcohol
 Concen: 2.052 ppbv
 RT: 4.29 min Scan# 466
 Delta R.T. 0.00 min
 Lab File: VL037816.D
 Acq: 8 Oct 2021 4:17

Tgt Ion: 59 Resp: 236292
 Ion Ratio Lower Upper
 59 100
 57 11.3 8.6 13.0



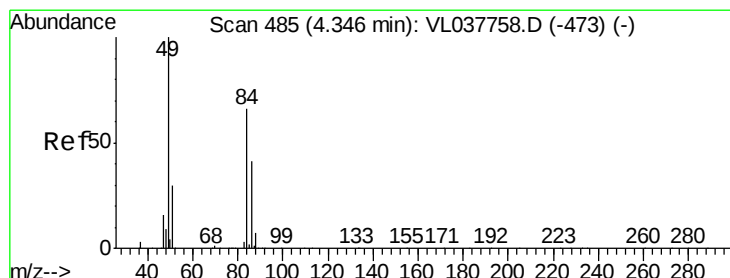
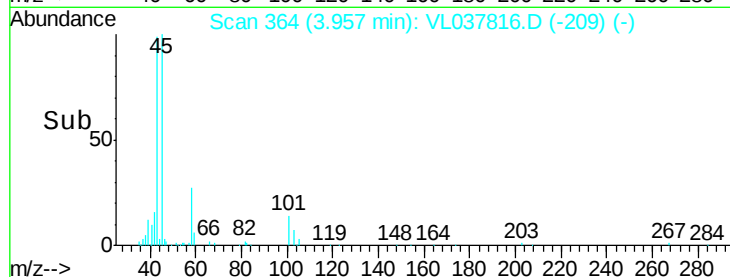
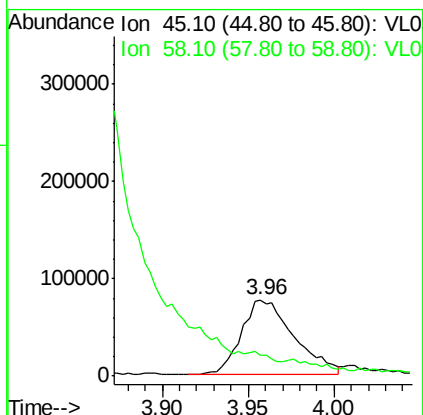
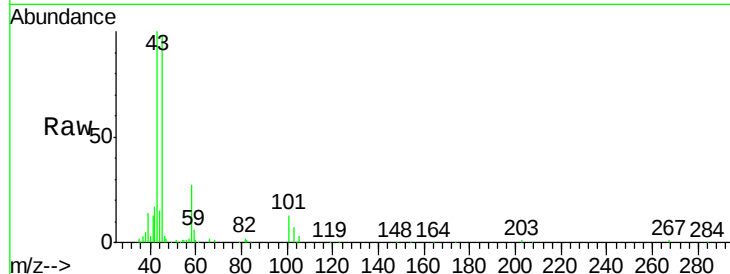


#19

Isopropyl Alcohol
 Concen: 2.372 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. -0.00 min
 Lab File: VL037816.D
 Acq: 8 Oct 2021 4:17

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 C0P10

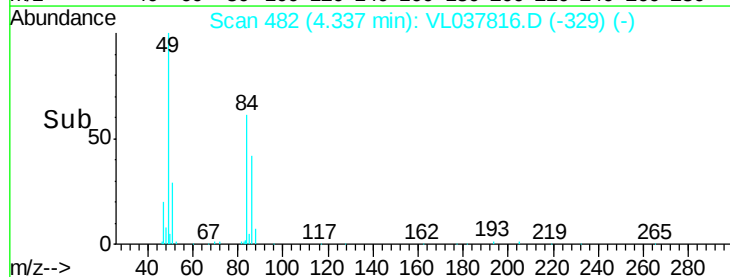
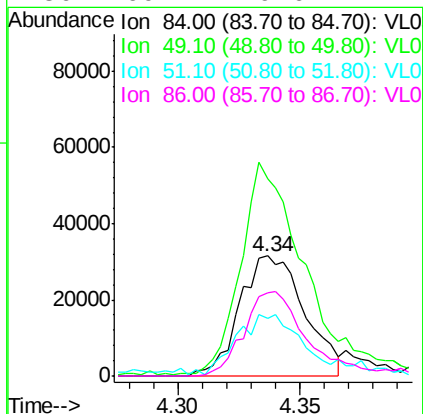
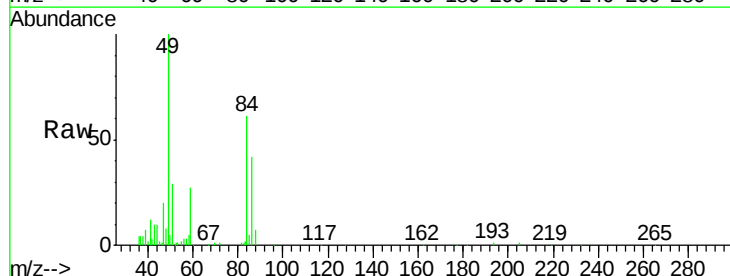
Tgt Ion: 45 Resp: 165031
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.1 1.7#

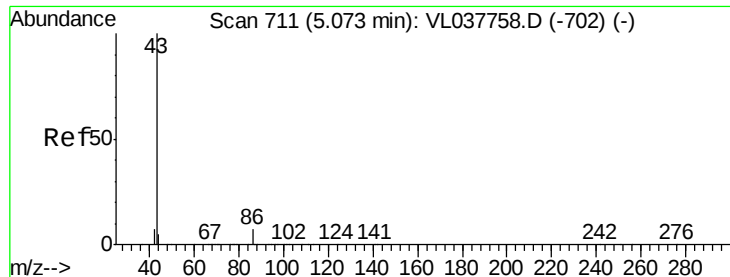


#20

Methylene Chloride
 Concen: 1.025 ppbv
 RT: 4.34 min Scan# 482
 Delta R.T. -0.01 min
 Lab File: VL037816.D
 Acq: 8 Oct 2021 4:17

Tgt Ion: 84 Resp: 57937
 Ion Ratio Lower Upper
 84 100
 49 161.7 120.7 181.1
 51 46.5 36.2 54.4
 86 69.2 49.6 74.4

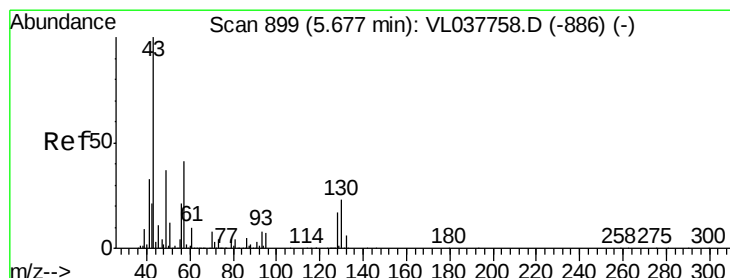
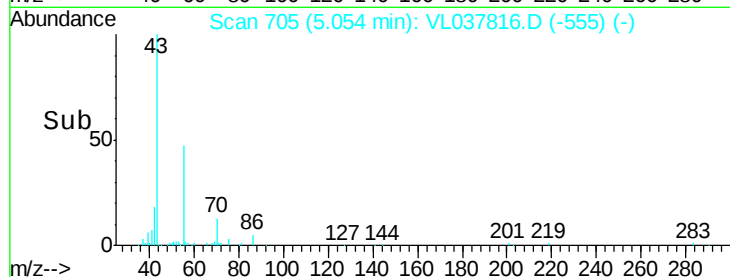
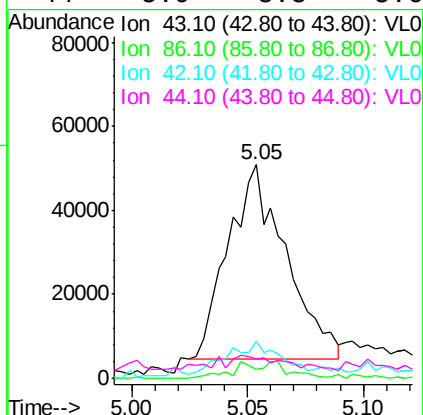
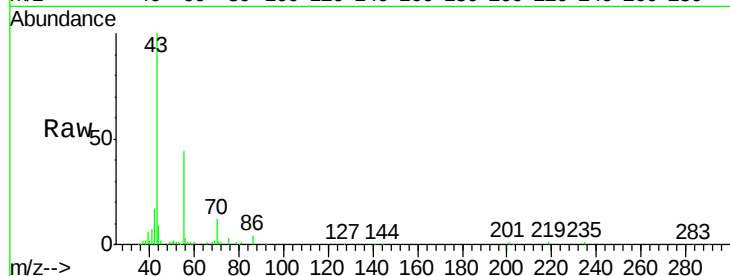




#23
 Vinyl Acetate
 Concen: 0.476 ppbv
 RT: 5.05 min Scan# 705
 Delta R.T. -0.02 min
 Lab File: VL037816.D
 Acq: 8 Oct 2021 4:17

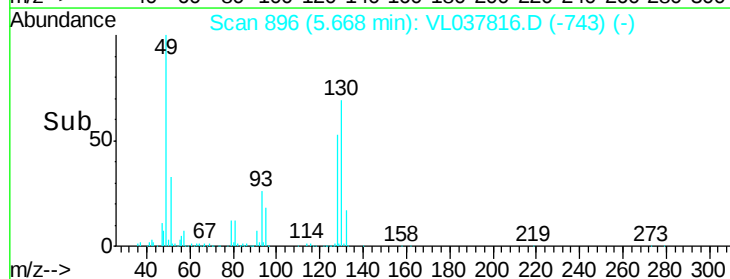
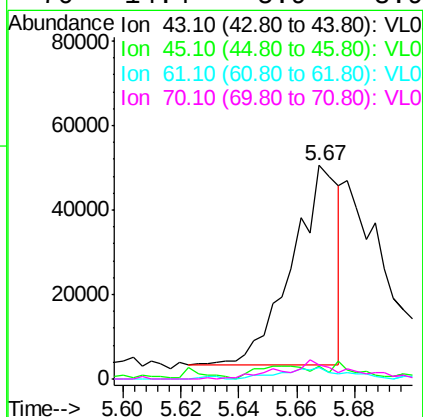
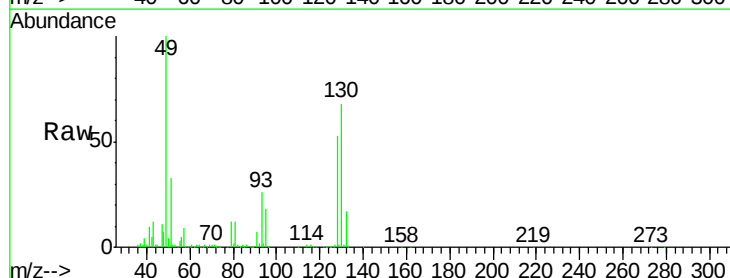
Instrument :
 MSVOA_L
 ClientSampleId :
 C0P10

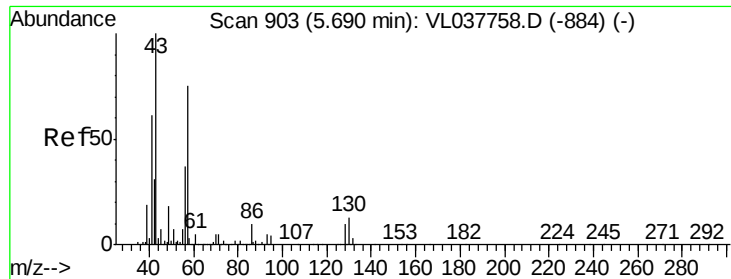
Tgt Ion:	43	Resp:	79791
Ion	Ratio	Lower	Upper
43	100		
86	4.6	5.0	7.4#
42	17.4	7.4	11.0#
44	5.9	3.8	5.6#



#25
 Ethyl Acetate
 Concen: 0.166 ppbv
 RT: 5.67 min Scan# 896
 Delta R.T. -0.01 min
 Lab File: VL037816.D
 Acq: 8 Oct 2021 4:17

Tgt Ion:	43	Resp:	51978
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	9.1	7.5	11.3
70	14.4	5.9	8.9#

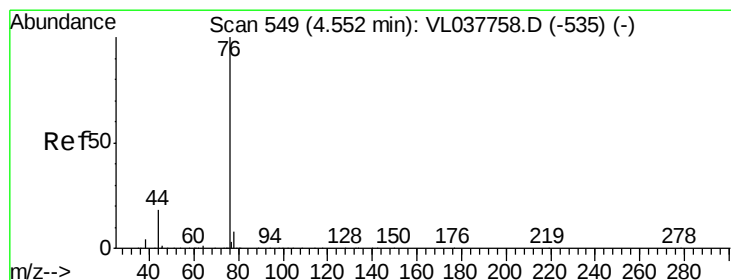
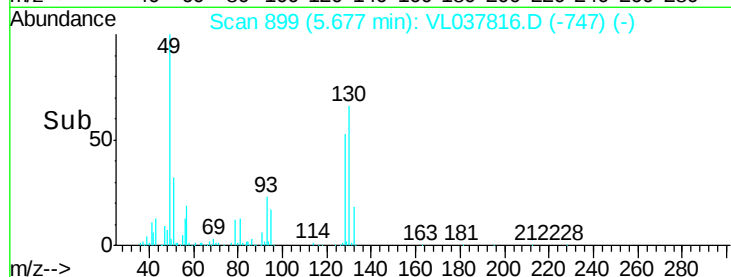
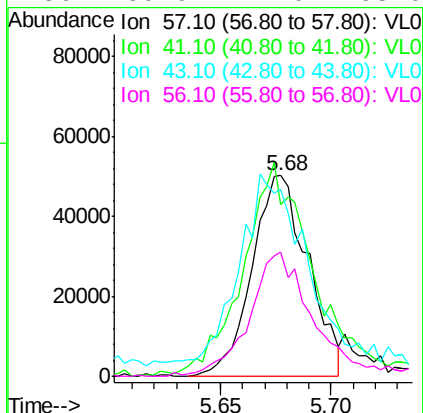
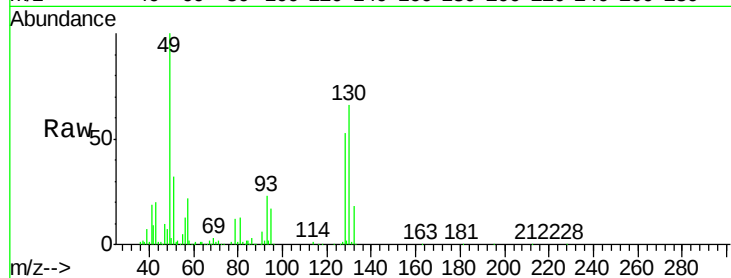




#26
Hexane
Concen: 0.572 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL037816.D
Acq: 8 Oct 2021 4:17

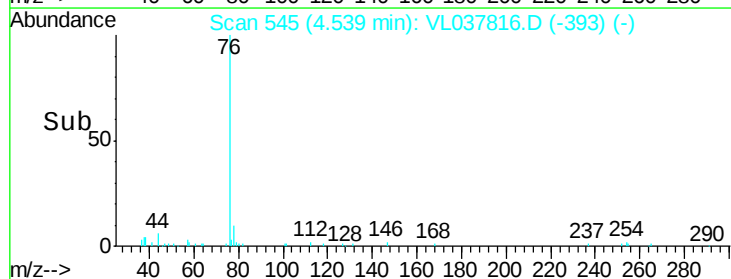
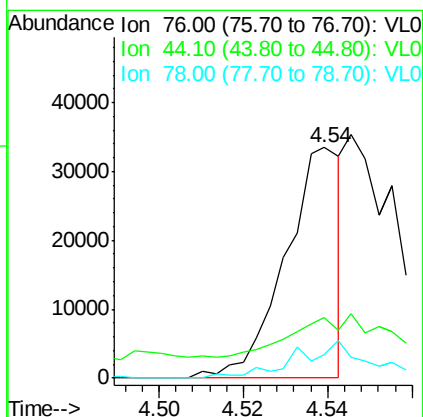
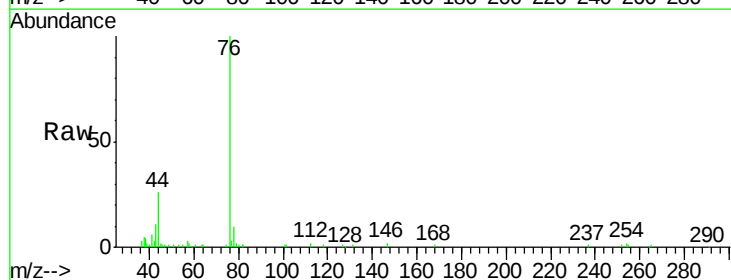
Instrument :
MSVOA_L
ClientSampleId :
C0P10

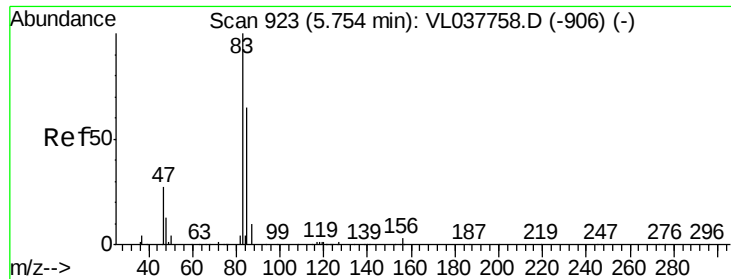
Tgt Ion: 57 Resp: 88426
Ion Ratio Lower Upper
57 100
41 134.0 69.6 104.4#
43 124.2 171.4 257.0#
56 69.9 42.0 63.0#



#27
Carbon Disulfide
Concen: 0.224 ppbv
RT: 4.54 min Scan# 545
Delta R.T. -0.01 min
Lab File: VL037816.D
Acq: 8 Oct 2021 4:17

Tgt Ion: 76 Resp: 30657
Ion Ratio Lower Upper
76 100
44 0.0 14.3 21.5#
78 26.0 7.8 11.6#





#29

Chloroform

Concen: 0.638 ppbv

RT: 5.74 min Scan# 919

Delta R.T. -0.01 min

Lab File: VL037816.D

Acq: 8 Oct 2021 4:17

Instrument :

MSVOA_L

ClientSampleId :

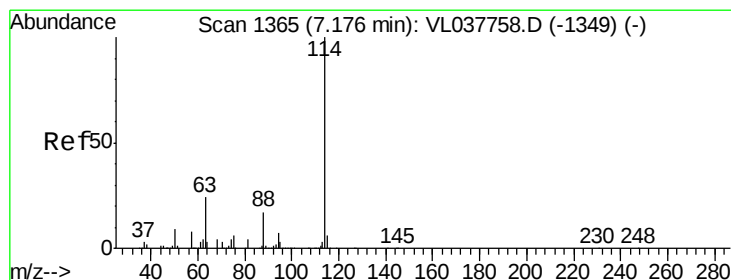
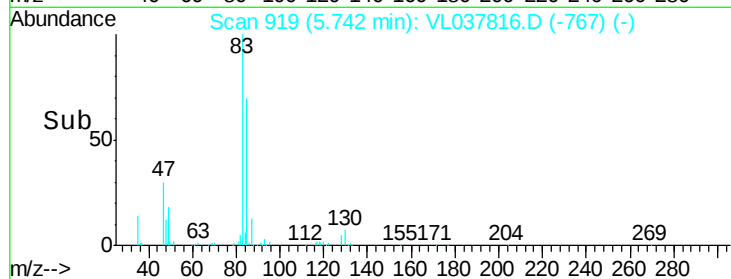
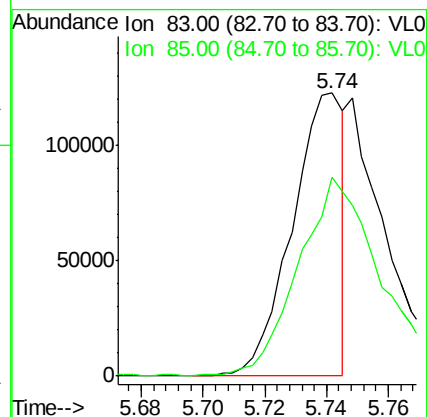
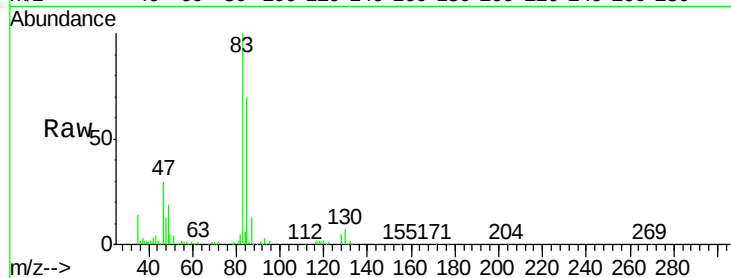
C0P10

Tgt Ion: 83 Resp: 140968

Ion Ratio Lower Upper

83 100

85 70.1 51.8 77.8



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.01 min

Lab File: VL037816.D

Acq: 8 Oct 2021 4:17

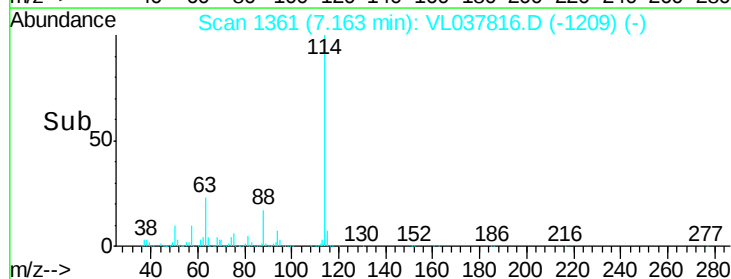
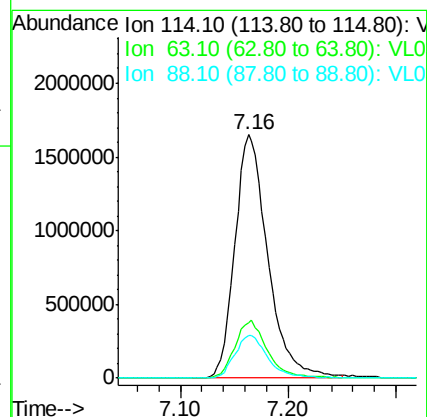
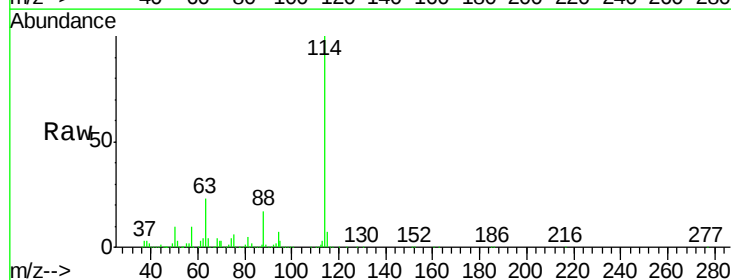
Tgt Ion: 114 Resp: 3518759

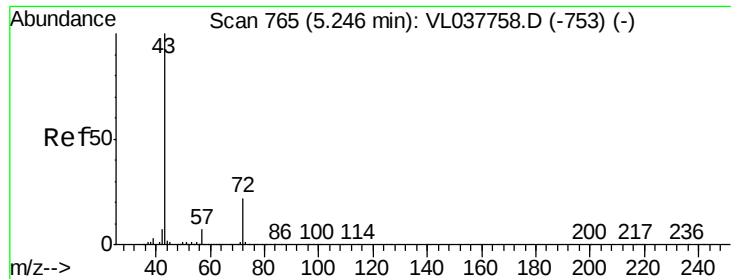
Ion Ratio Lower Upper

114 100

63 23.7 19.4 29.2

88 17.7 14.4 21.6

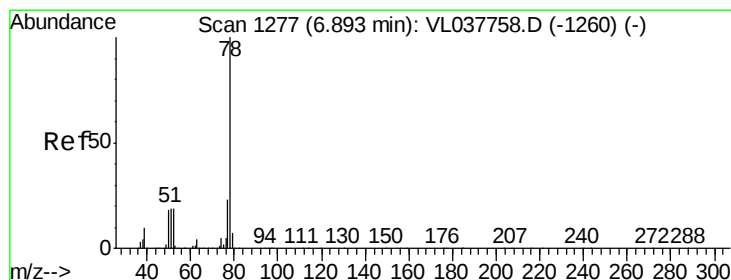
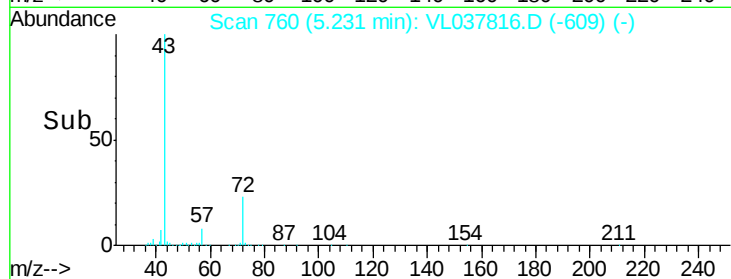
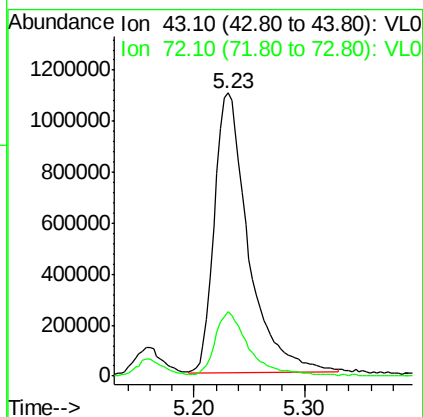
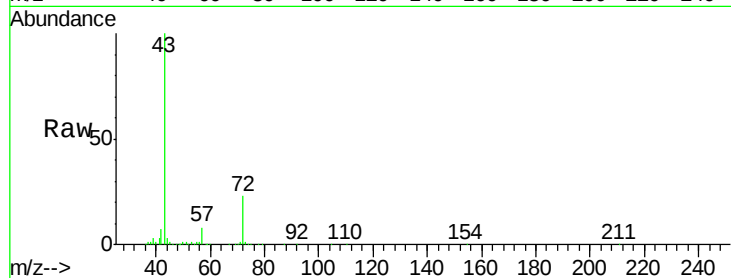




#34
2-Butanone
Concen: 16.524 ppbv
RT: 5.23 min Scan# 760
Delta R.T. -0.02 min
Lab File: VL037816.D
Acq: 8 Oct 2021 4:17

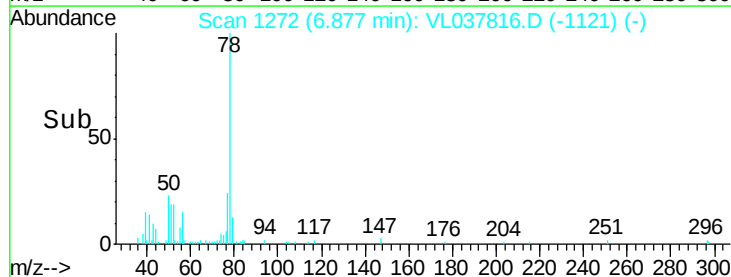
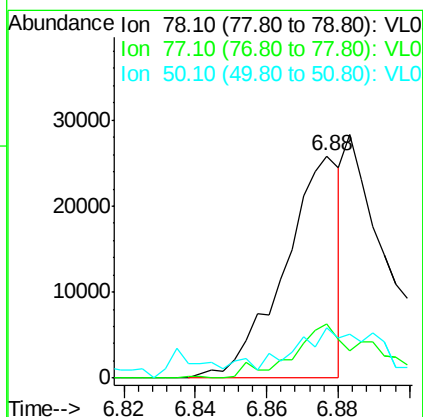
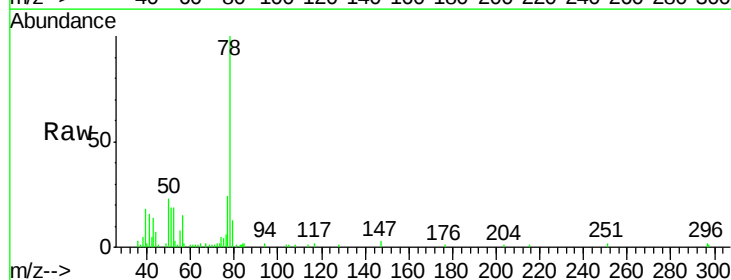
Instrument :
MSVOA_L
ClientSampleId :
C0P10

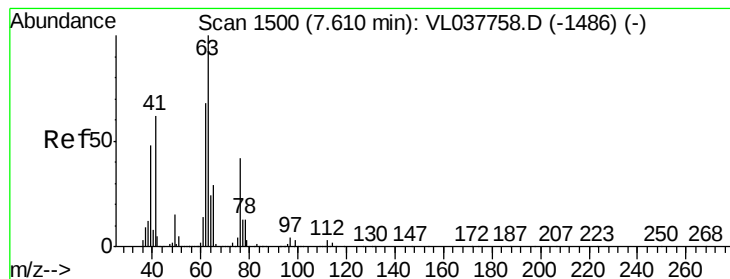
Tgt Ion: 43 Resp: 2347349
Ion Ratio Lower Upper
43 100
72 23.8 18.2 27.2



#36
Benzene
Concen: 0.093 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.02 min
Lab File: VL037816.D
Acq: 8 Oct 2021 4:17

Tgt Ion: 78 Resp: 28053
Ion Ratio Lower Upper
78 100
77 23.4 18.8 28.2
50 16.4 14.7 22.1





#39

1,2-Dichloropropane

Concen: 7.200 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.44 min

Lab File: VL037816.D

Acq: 8 Oct 2021 4:17

Instrument :

MSVOA_L

ClientSampleId :

C0P10

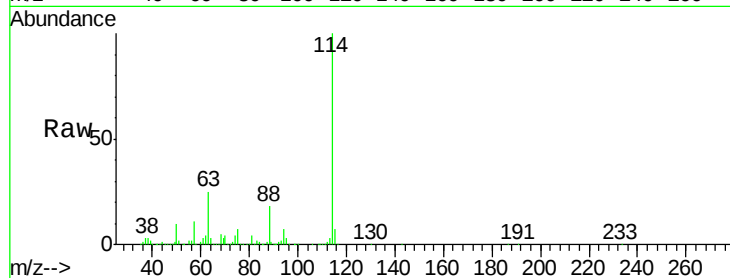
Tgt Ion: 63 Resp: 813994

Ion Ratio Lower Upper

63 100

41 0.3 49.8 74.6#

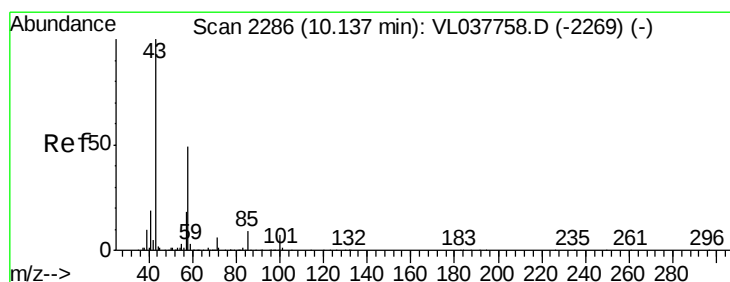
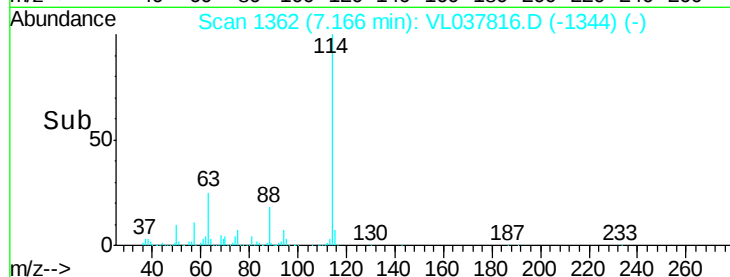
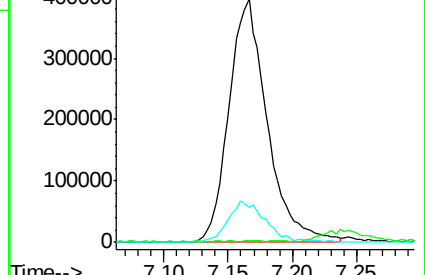
62 14.5 54.6 82.0#



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



#51

2-Hexanone

Concen: 3.293 ppbv

RT: 10.13 min Scan# 2283

Delta R.T. -0.01 min

Lab File: VL037816.D

Acq: 8 Oct 2021 4:17

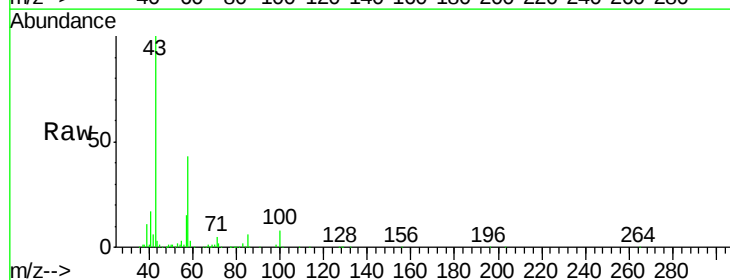
Tgt Ion: 43 Resp: 271822

Ion Ratio Lower Upper

43 100

58 51.1 39.4 59.0

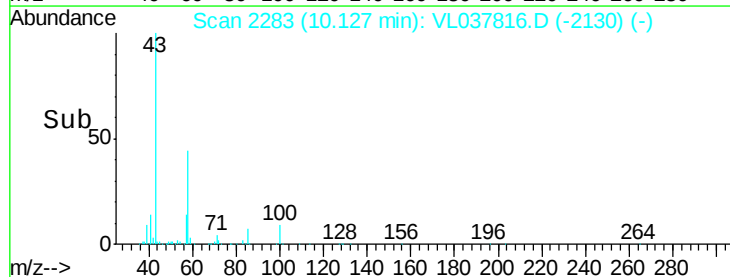
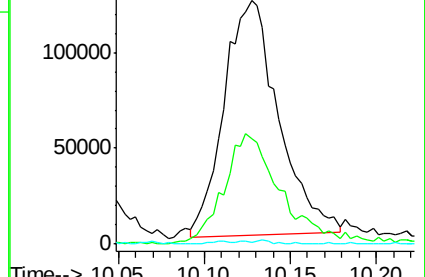
98 1.3 0.3 0.5#

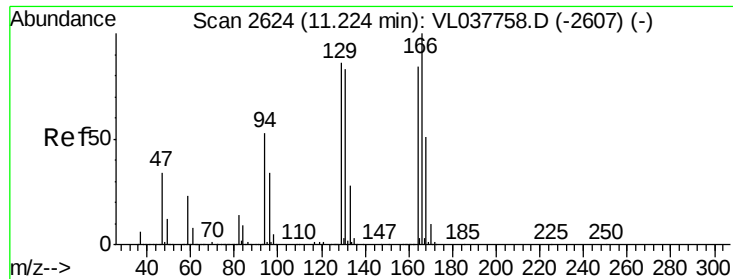


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0

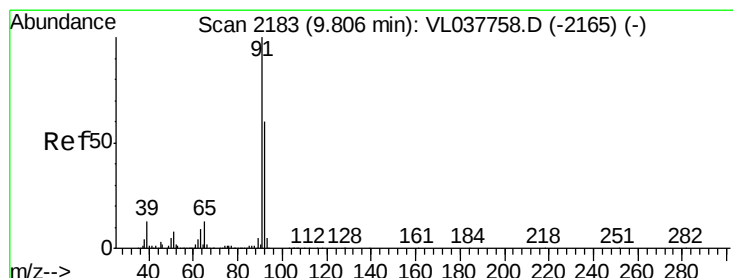
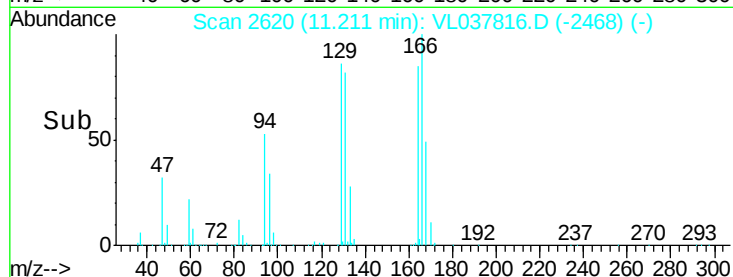
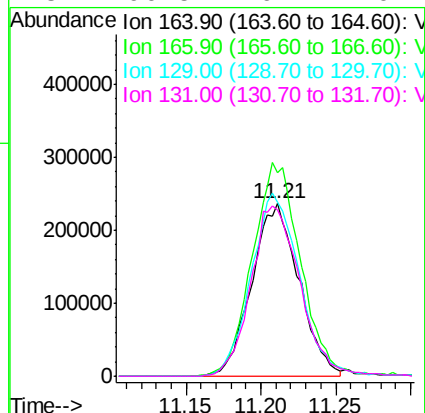
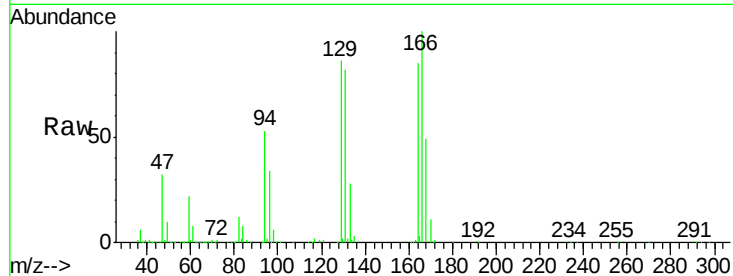




#52
Tetrachloroethene
Concen: 4.440 ppbv
RT: 11.21 min Scan# 2620
Delta R.T. -0.01 min
Lab File: VL037816.D
Acq: 8 Oct 2021 4:17

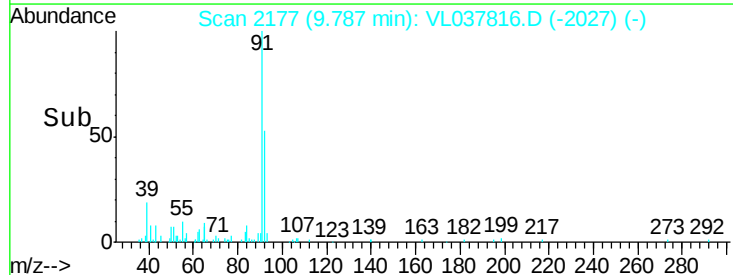
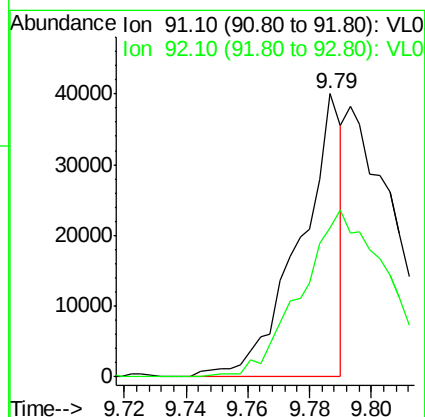
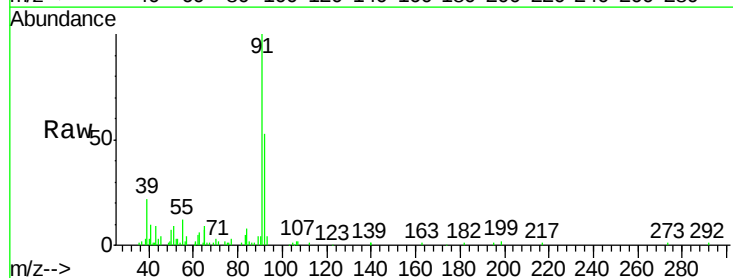
Instrument :
MSVOA_L
ClientSampleId :
C0P10

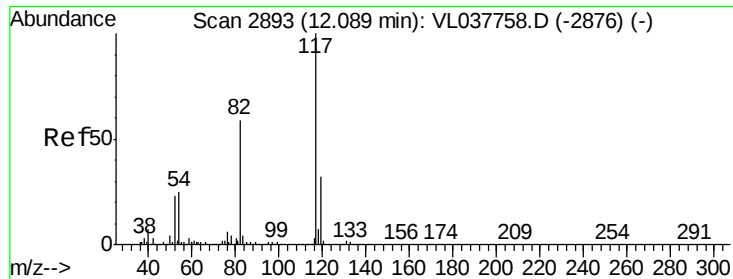
Tgt Ion:164 Resp: 519217
Ion Ratio Lower Upper
164 100
166 117.9 95.4 143.2
129 101.2 82.2 123.4
131 96.5 79.4 119.2



#53
Toluene
Concen: 0.113 ppbv
RT: 9.79 min Scan# 2177
Delta R.T. -0.02 min
Lab File: VL037816.D
Acq: 8 Oct 2021 4:17

Tgt Ion: 91 Resp: 37765
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#

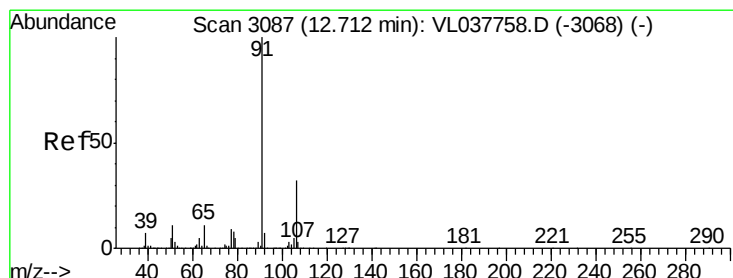
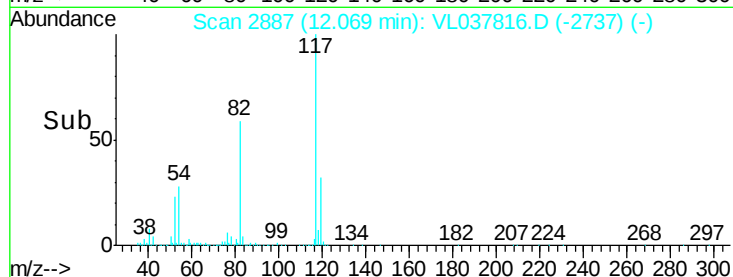
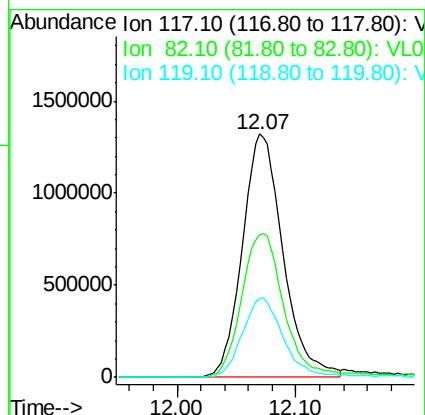
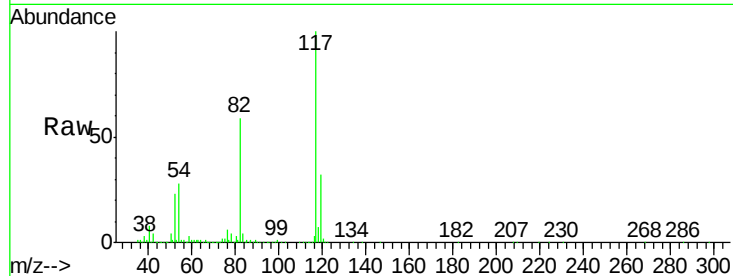




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. -0.02 min
Lab File: VL037816.D
Acq: 8 Oct 2021 4:17

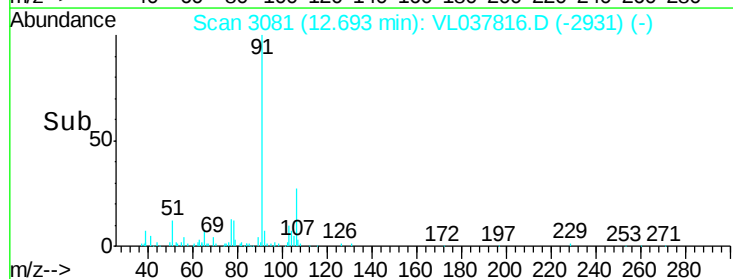
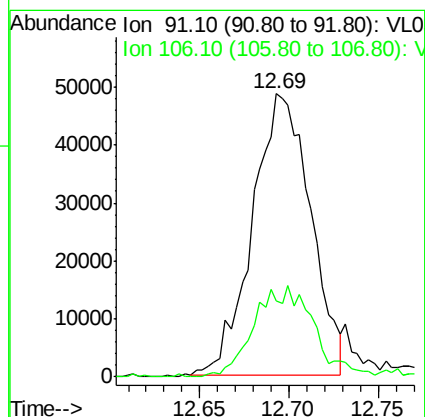
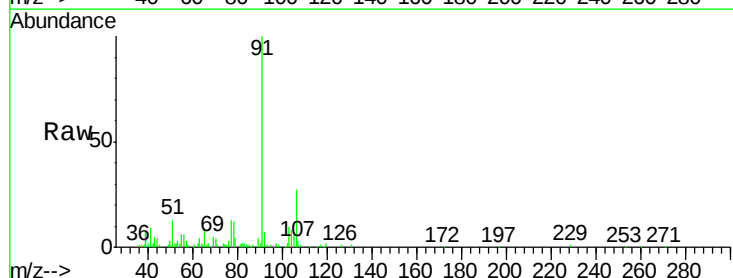
Instrument :
MSVOA_L
ClientSampleId :
C0P10

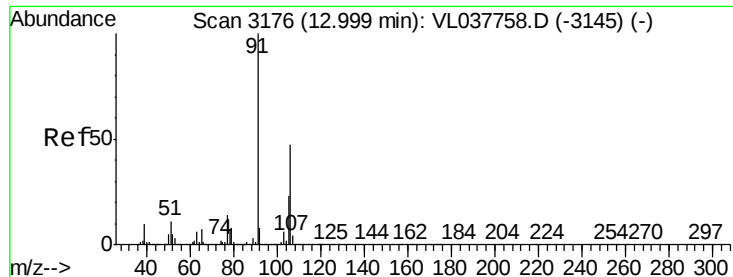
Tgt Ion: 117 Resp: 3125798
Ion Ratio Lower Upper
117 100
82 63.8 52.2 78.2
119 33.6 26.0 39.0



#58
Ethyl Benzene
Concen: 0.263 ppbv
RT: 12.69 min Scan# 3081
Delta R.T. -0.02 min
Lab File: VL037816.D
Acq: 8 Oct 2021 4:17

Tgt Ion: 91 Resp: 110192
Ion Ratio Lower Upper
91 100
106 26.9 25.3 37.9

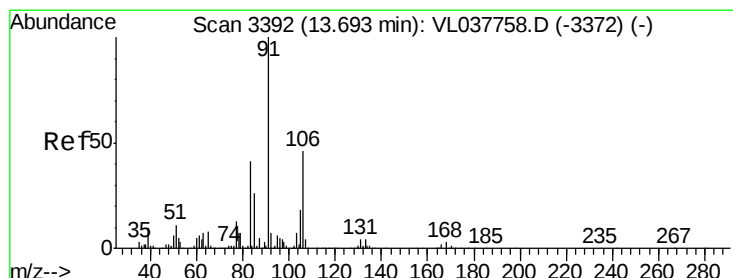
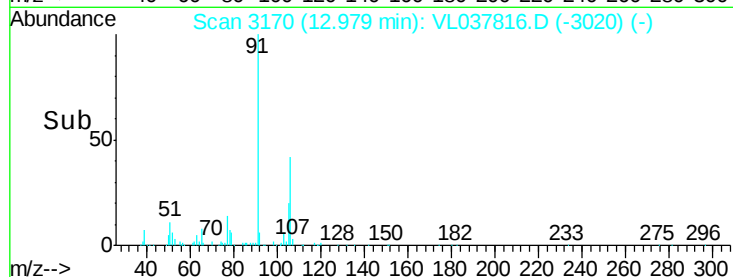
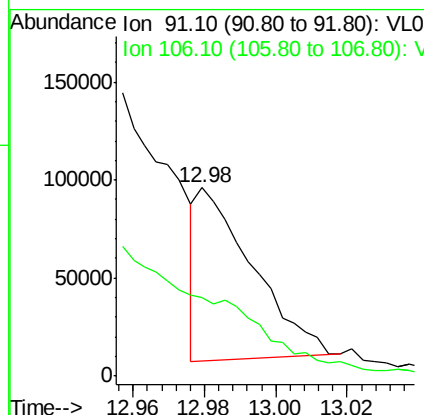
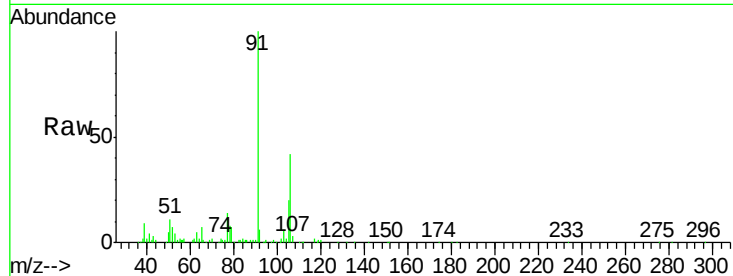




#59
m/p-Xylene
Concen: 0.262 ppbv
RT: 12.98 min Scan# 3170
Delta R.T. -0.02 min
Lab File: VL037816.D
Acq: 8 Oct 2021 4:17

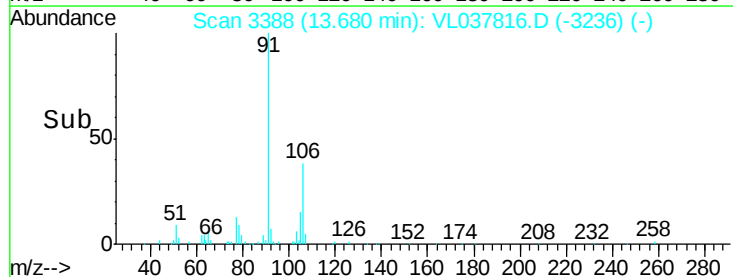
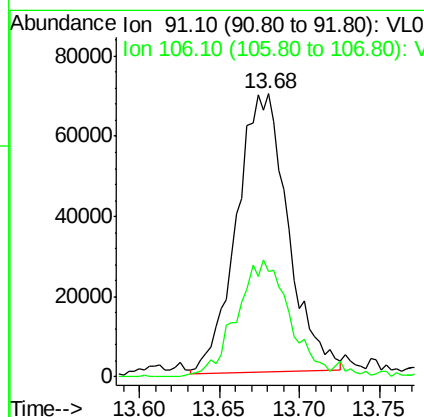
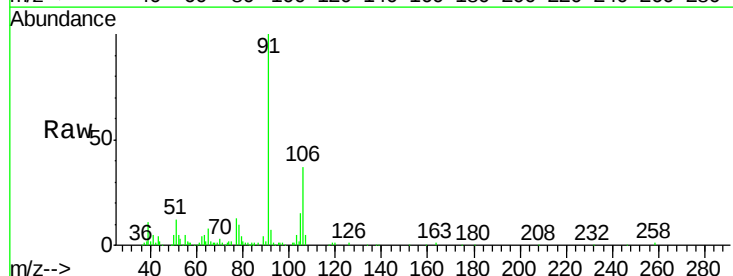
Instrument :
MSVOA_L
ClientSampleId :
C0P10

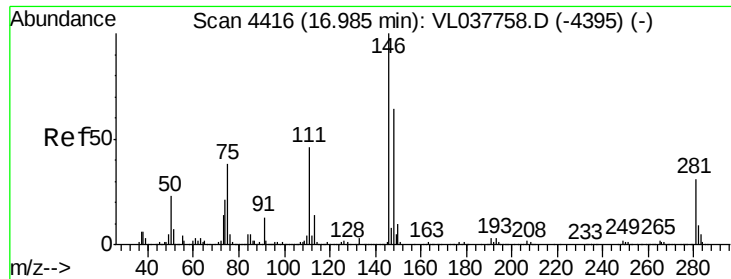
Tgt Ion: 91 Resp: 94449
Ion Ratio Lower Upper
91 100
106 0.0 36.7 55.1#



#60
o-Xylene
Concen: 0.443 ppbv
RT: 13.68 min Scan# 3388
Delta R.T. -0.01 min
Lab File: VL037816.D
Acq: 8 Oct 2021 4:17

Tgt Ion: 91 Resp: 153009
Ion Ratio Lower Upper
91 100
106 46.4 23.5 70.5

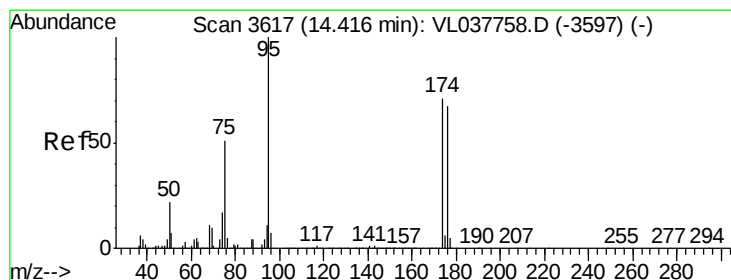
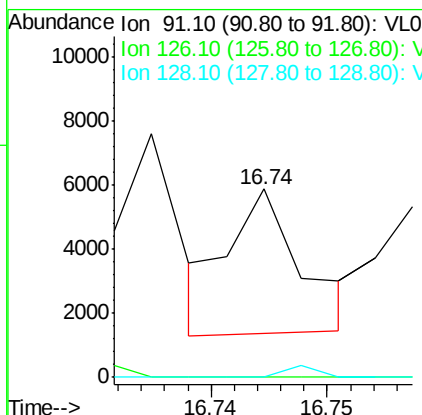
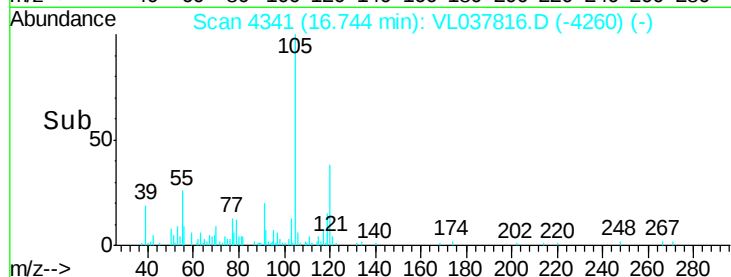
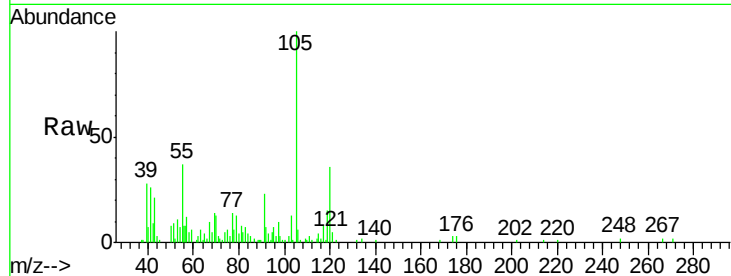




#66
Benzyl Chloride
Concen: 0.094 ppbv
RT: 16.74 min Scan# 4341
Delta R.T. -0.24 min
Lab File: VL037816.D
Acq: 8 Oct 2021 4:17

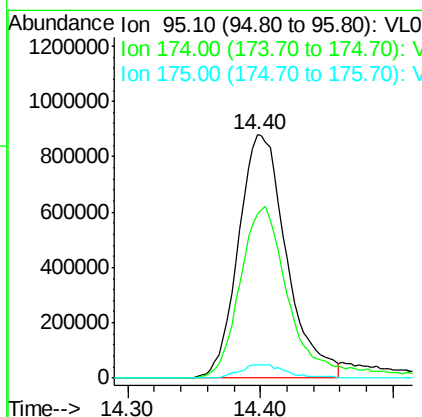
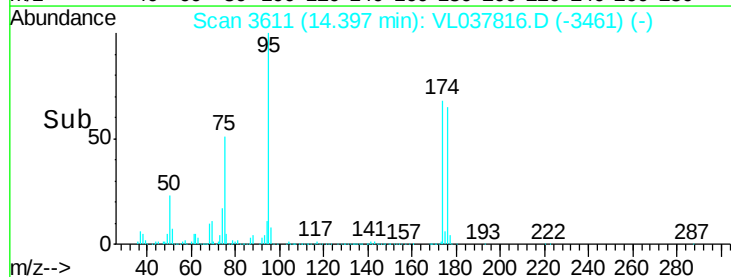
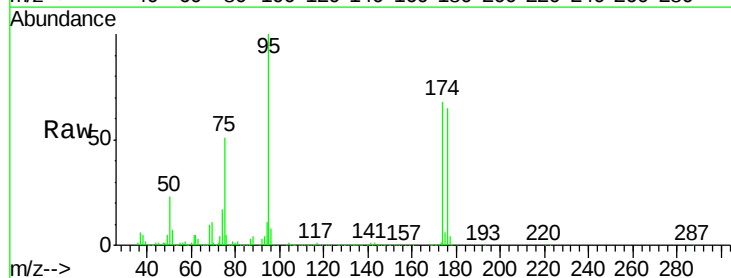
Instrument :
MSVOA_L
ClientSampleId :
COP10

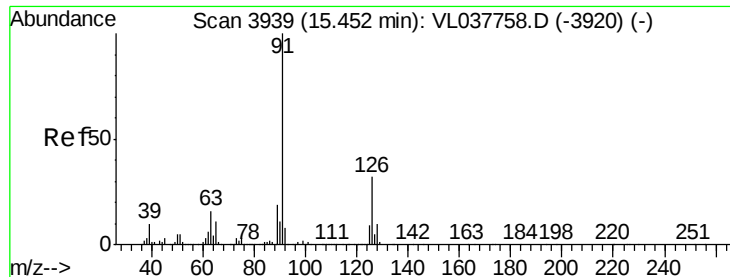
Tgt Ion: 91 Resp: 1971
Ion Ratio Lower Upper
91 100
126 0.0 0.0 0.0
128 3.7 5.3 7.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.165 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. -0.02 min
Lab File: VL037816.D
Acq: 8 Oct 2021 4:17

Tgt Ion: 95 Resp: 2221975
Ion Ratio Lower Upper
95 100
174 74.4 57.8 86.6
175 5.4 4.7 7.1

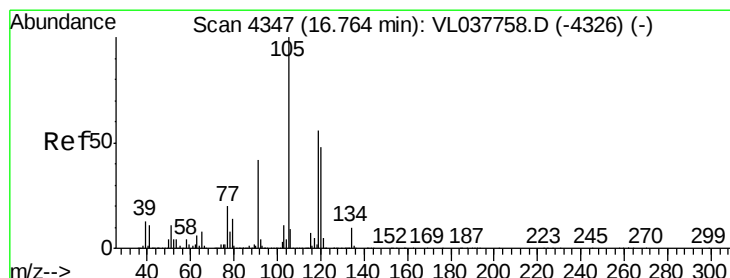
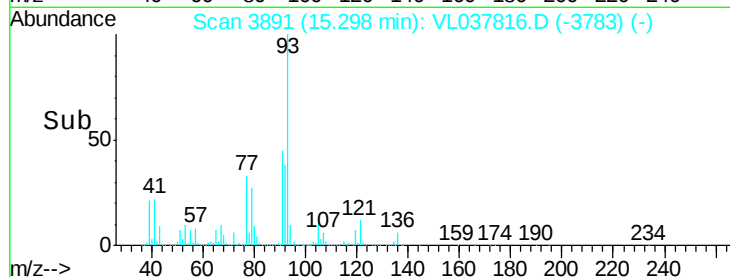
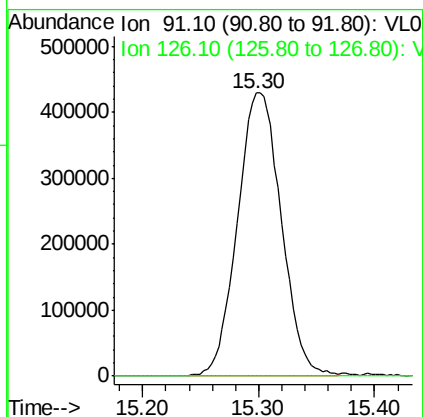
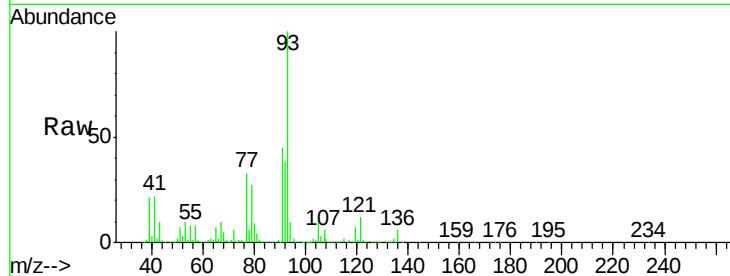




#71
 2-Chlorotoluene
 Concen: 3.298 ppbv
 RT: 15.30 min Scan# 3891
 Delta R.T. -0.15 min
 Lab File: VL037816.D
 Acq: 8 Oct 2021 4:17

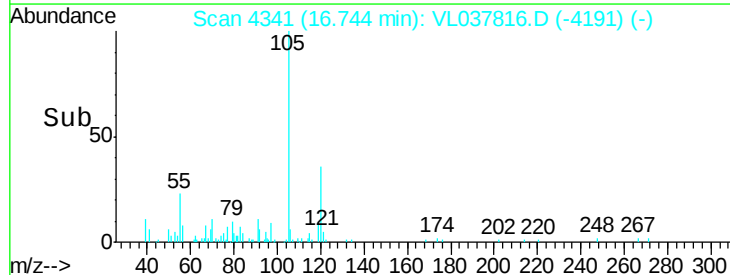
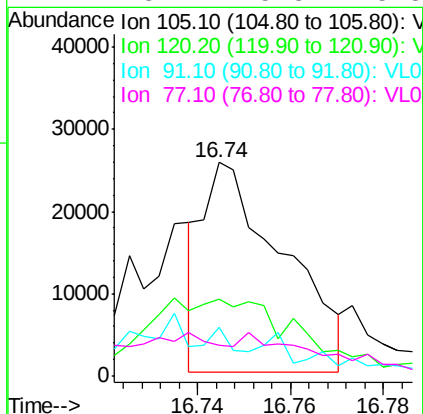
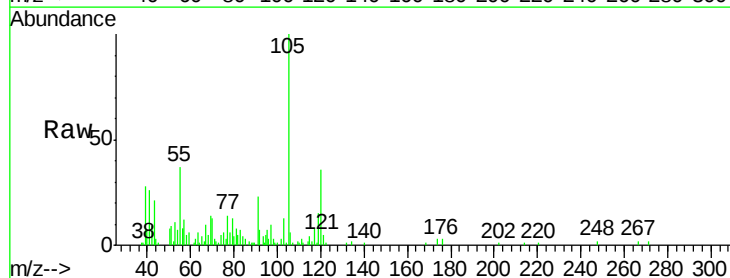
Instrument :
 MSVOA_L
 ClientSampleId :
 C0P10

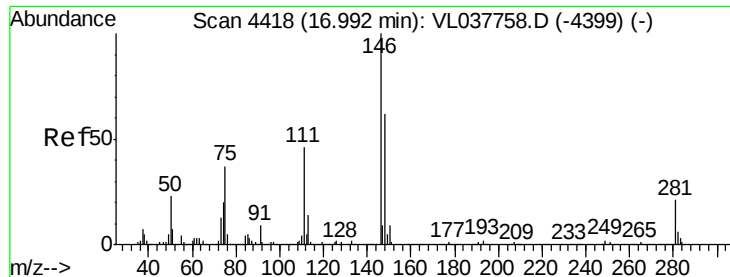
Tgt Ion: 91 Resp: 1121681
 Ion Ratio Lower Upper
 91 100
 126 0.1 13.6 54.6#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.082 ppbv
 RT: 16.74 min Scan# 4341
 Delta R.T. -0.02 min
 Lab File: VL037816.D
 Acq: 8 Oct 2021 4:17

Tgt Ion: 105 Resp: 30660
 Ion Ratio Lower Upper
 105 100
 120 33.8 38.4 57.6#
 91 24.8 34.2 51.2#
 77 5.2 15.8 23.8#





#75

1,3-Dichlorobenzene

Concen: 0.109 ppbv

RT: 16.98 min Scan# 4414

Delta R.T. -0.01 min

Lab File: VL037816.D

Acq: 8 Oct 2021 4:17

Instrument :

MSVOA_L

ClientSampleId :

C0P10

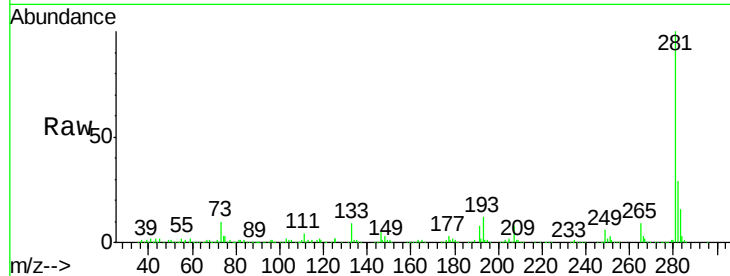
Tgt Ion:146 Resp: 25308

Ion Ratio Lower Upper

146 100

111 111.6 22.8 68.4#

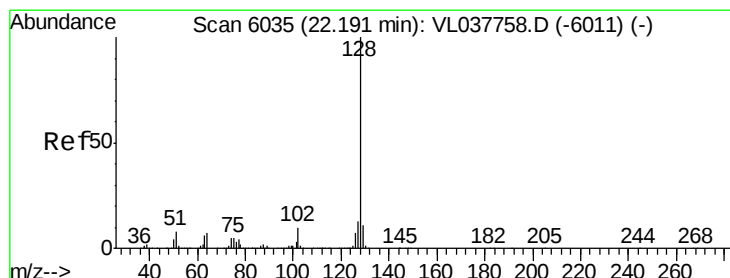
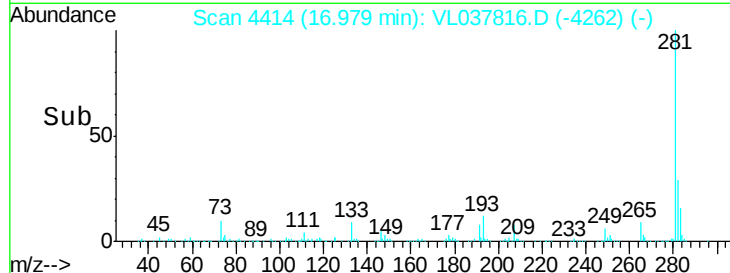
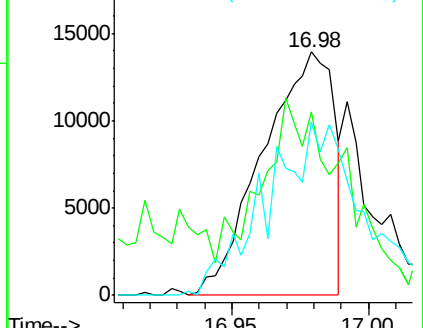
148 104.0 32.8 98.3#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 0.133 ppbv

RT: 22.18 min Scan# 6030

Delta R.T. -0.02 min

Lab File: VL037816.D

Acq: 8 Oct 2021 4:17

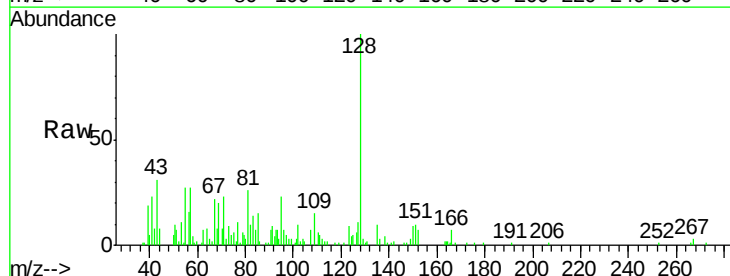
Tgt Ion:128 Resp: 30469

Ion Ratio Lower Upper

128 100

127 6.3 10.1 15.1#

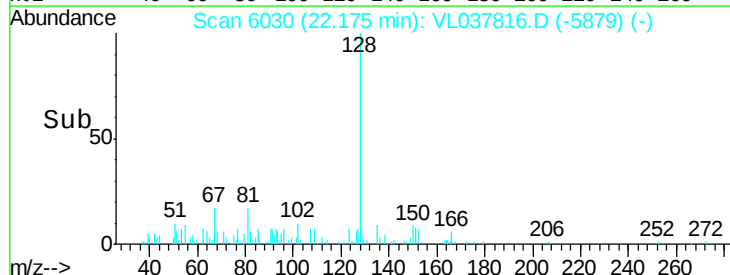
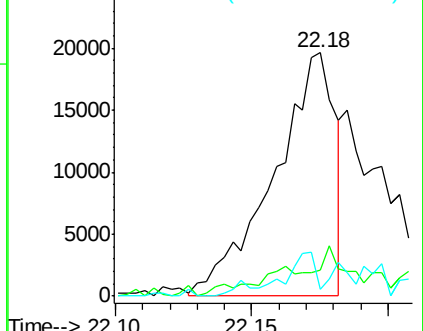
129 0.0 9.1 13.7#

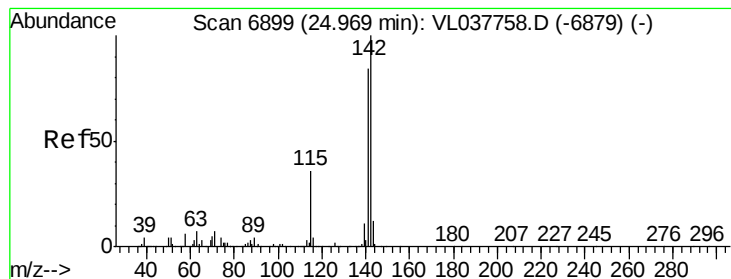


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80
 Naphthalene, 2-methyl-
 Concen: 0.111 ppbv
 RT: 24.96 min Scan# 6897
 Delta R.T. -0.01 min
 Lab File: VL037816.D
 Acq: 8 Oct 2021 4:17

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P10

Tgt Ion	Ratio	Lower	Upper
142	100		
141	81.9	68.6	102.8
115	37.3	29.0	43.6

