

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060221\
 Data File : VL037103.D
 Acq On : 2 Jun 2021 15:52
 Operator : SY/AP
 Sample : M2548-09
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 03 03:21:04 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1409992	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4031606	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3649214	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2680237	9.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

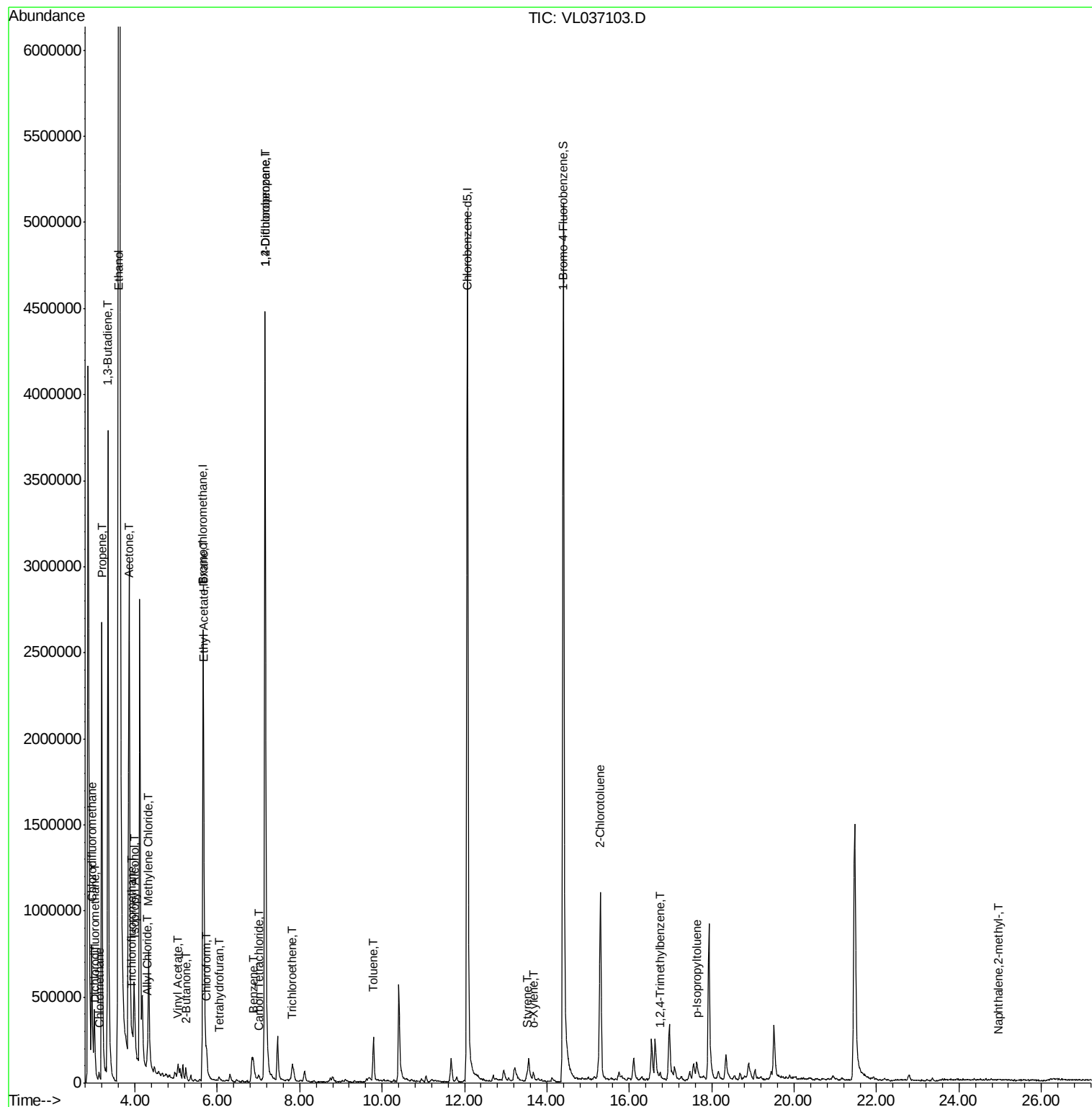
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	62042	0.259	ppbv	91
3) Chlorodifluoromethane	2.95	51	629166	2.436	ppbv #	63
4) Chloromethane	3.13	50	52108	0.593	ppbv	98
9) Propene	3.20	41	981230	10.608	ppbv	97
11) Trichlorofluoromethane	3.94	101	53207	0.240	ppbv	84
13) Ethanol	3.61	45	19330006	1566.270	ppbv	96
15) Acetone	3.84	43	1023366	7.086	ppbv #	67
16) 1,3-Butadiene	3.35	39	605293	6.746	ppbv #	13
19) Isopropyl Alcohol	3.98	45	616761	7.945	ppbv #	37
20) Methylene Chloride	4.33	84	285330	3.686	ppbv	95
21) Allyl Chloride	4.30	41	20618	0.189	ppbv #	28
23) Vinyl Acetate	5.05	43	54532	0.238	ppbv #	30
25) Ethyl Acetate	5.67	43	178770	0.515	ppbv #	88
26) Hexane	5.67	57	193223	1.090	ppbv #	55
29) Chloroform	5.74	83	78295	0.313	ppbv	96
34) 2-Butanone	5.24	43	84172	0.573	ppbv #	90
35) Carbon Tetrachloride	7.00	117	15612	0.058	ppbv #	78
36) Benzene	6.88	78	52849	0.152	ppbv	95
38) Trichloroethene	7.82	130	19288	0.130	ppbv #	83
39) 1,2-Dichloropropane	7.16	63	951394	7.112	ppbv #	25
41) Tetrahydrofuran	6.03	42	2656	0.032	ppbv #	1
53) Toluene	9.79	91	201321	0.487	ppbv	98
60) o-Xylene	13.68	91	13408	0.033	ppbv #	26
61) Styrene	13.51	104	11997	0.052	ppbv #	20
69) p-Isopropyltoluene	17.64	119	65880	0.107	ppbv #	91
71) 2-Chlorotoluene	15.30	91	276030	0.655	ppbv #	42
74) 1,2,4-Trimethylbenzene	16.74	105	17718	0.038	ppbv #	66
80) Naphthalene,2-methyl-	24.97	142	2404	0.030	ppbv #	81

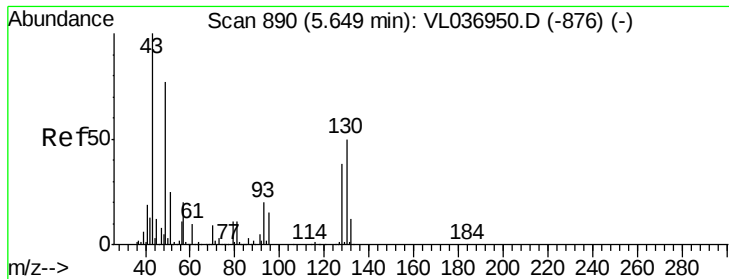
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 18 12:00:15 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

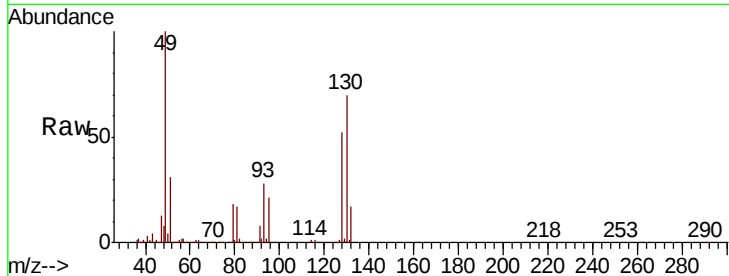
Lab File: VL037103.D

Acq: 2 Jun 2021 15:52

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1409992

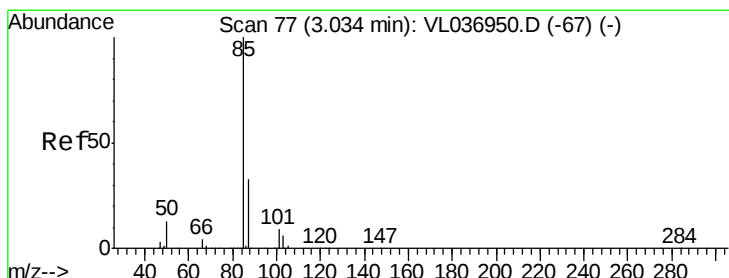
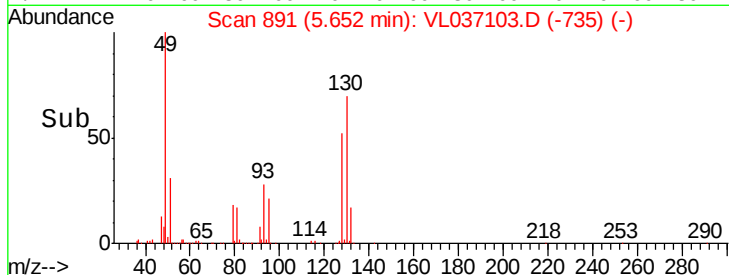
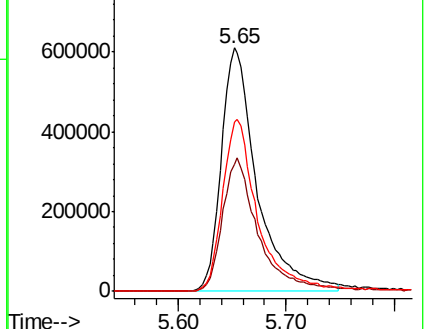
Ion	Ratio	Lower	Upper
49	100		
128	56.3	26.9	80.7
130	70.9	33.8	101.4



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: 0.259 ppbv

RT: 3.04 min Scan# 78

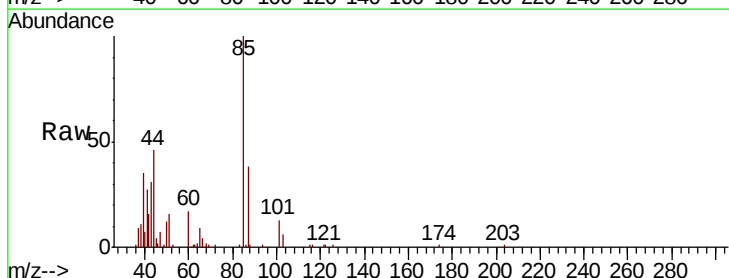
Delta R.T. 0.00 min

Lab File: VL037103.D

Acq: 2 Jun 2021 15:52

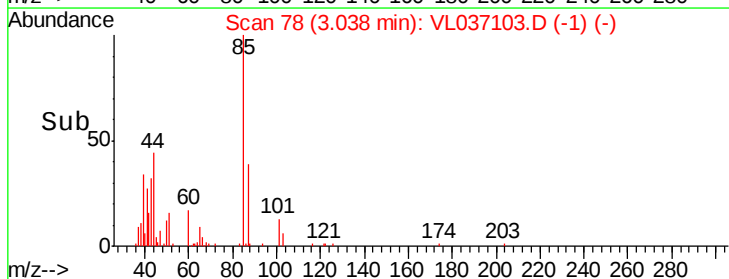
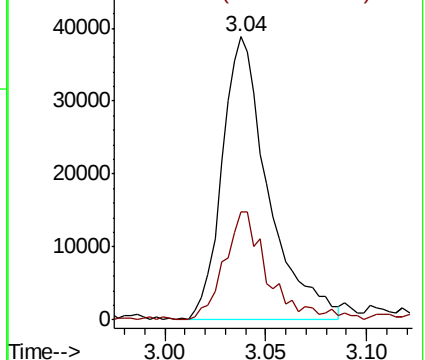
Tgt Ion: 85 Resp: 62042

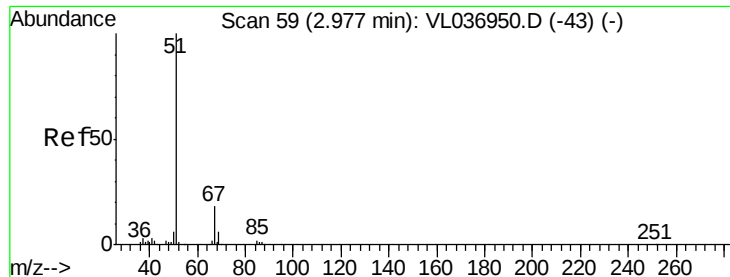
Ion	Ratio	Lower	Upper
85	100		
87	38.2	26.6	39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.436 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.02 min

Lab File: VL037103.D

Acq: 2 Jun 2021 15:52

Instrument :

MSVOA_L

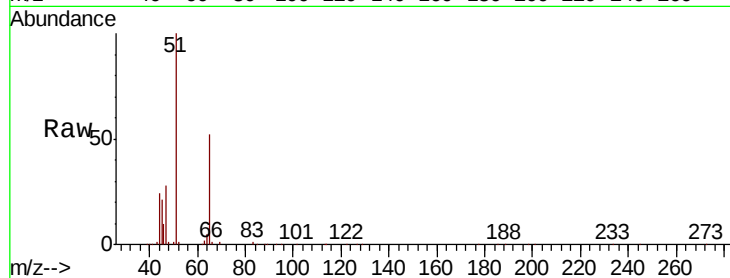
ClientSampleId :

Tot Ion: 51 Resp: 629166

Ion Ratio Lower Upper

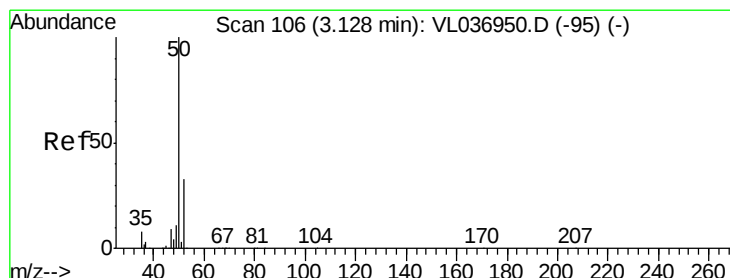
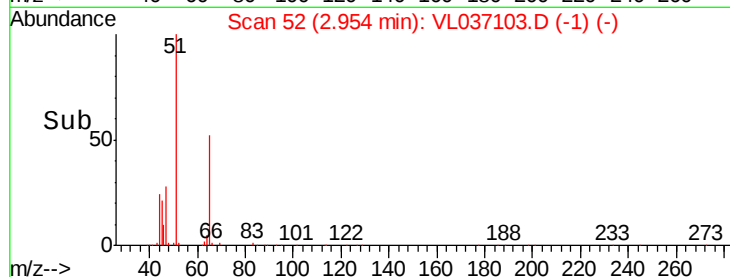
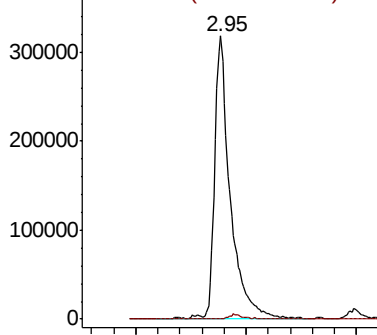
51 100

67 1.7 14.6 21.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.593 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL037103.D

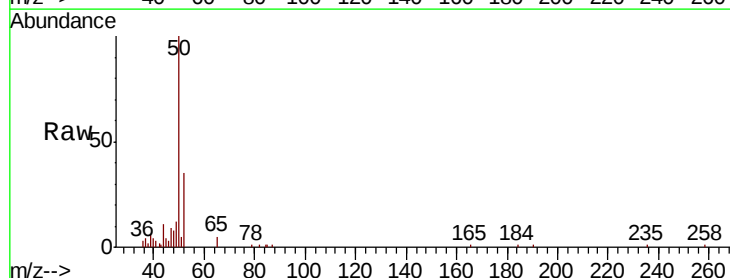
Acq: 2 Jun 2021 15:52

Tgt Ion: 50 Resp: 52108

Ion Ratio Lower Upper

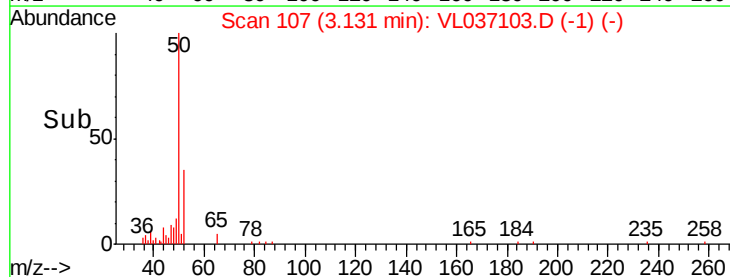
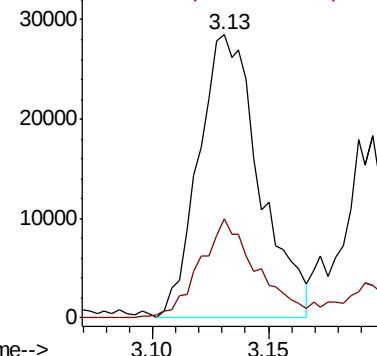
50 100

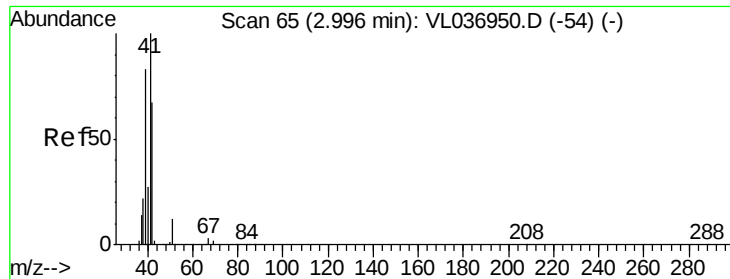
52 33.6 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 10.608 ppbv

RT: 3.20 min Scan# 127

Delta R.T. 0.20 min

Lab File: VL037103.D

Acq: 2 Jun 2021 15:52

Instrument :

MSVOA_L

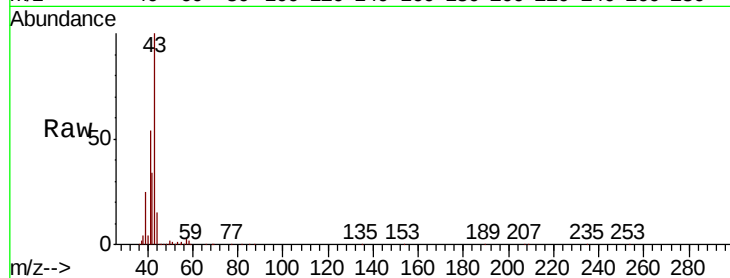
ClientSampleId :

Tot Ion: 41 Resp: 981230

Ion Ratio Lower Upper

41 100

42 64.6 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.20

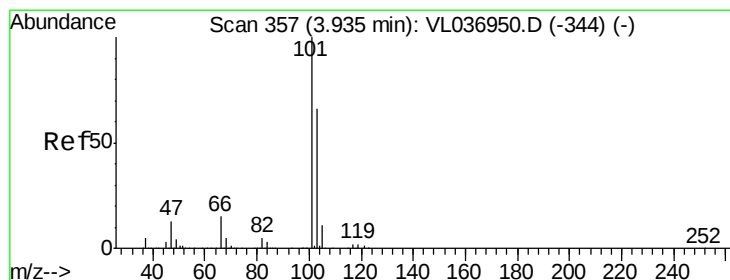
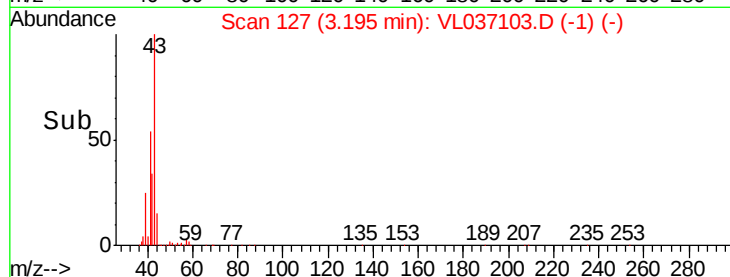
600000

400000

200000

0

Time-->



#11

Trichlorofluoromethane

Concen: 0.240 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.01 min

Lab File: VL037103.D

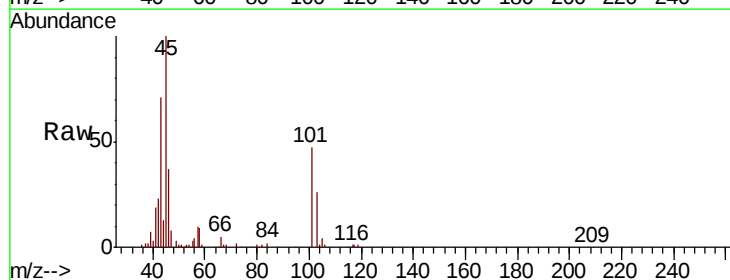
Acq: 2 Jun 2021 15:52

Tgt Ion: 101 Resp: 53207

Ion Ratio Lower Upper

101 100

103 53.4 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.94

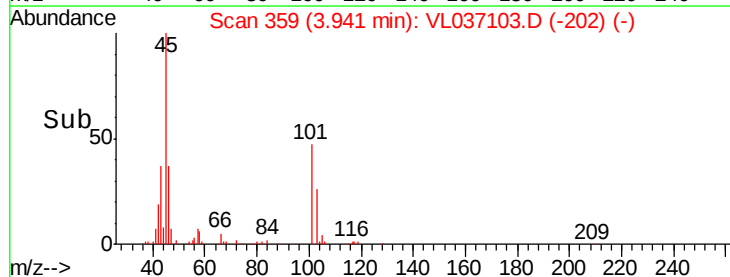
30000

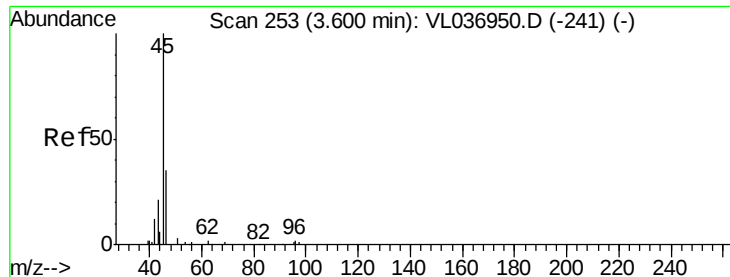
20000

10000

0

Time-->

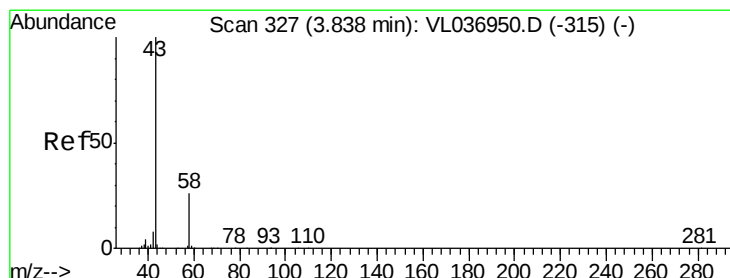
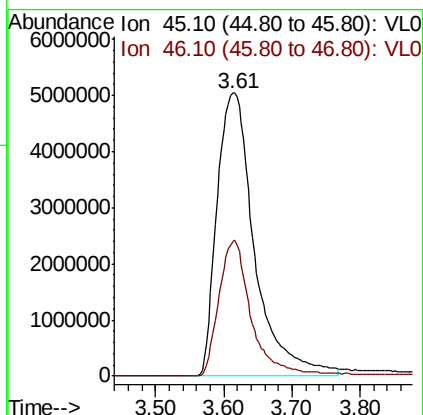
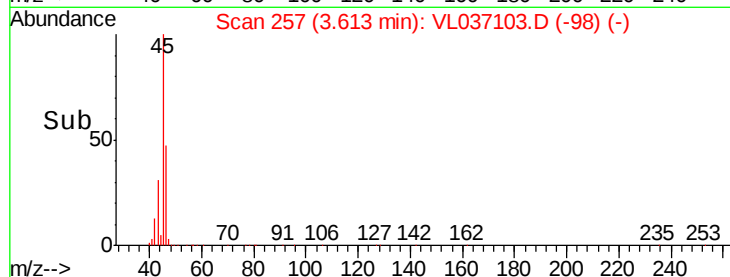
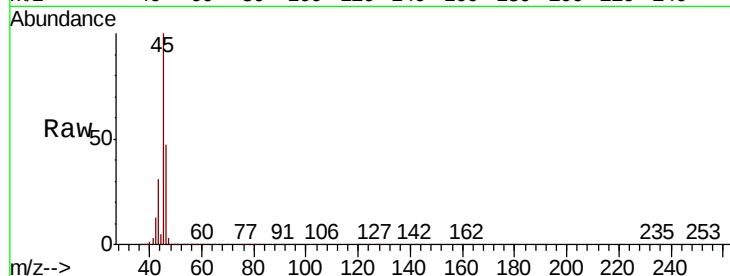




#13
Ethanol
Concen: 1566.270 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL037103.D
Acq: 2 Jun 2021 15:52

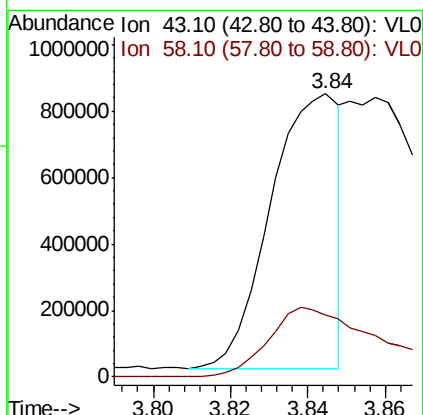
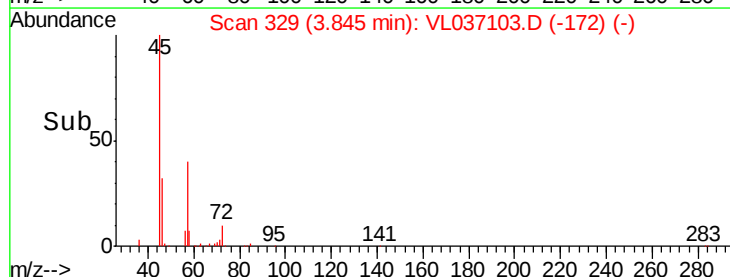
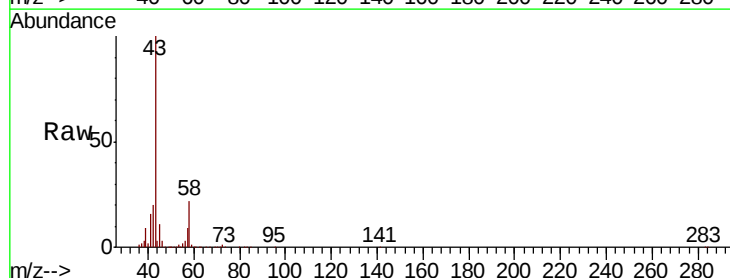
Instrument :
MSVOA_L
ClientSampleId :

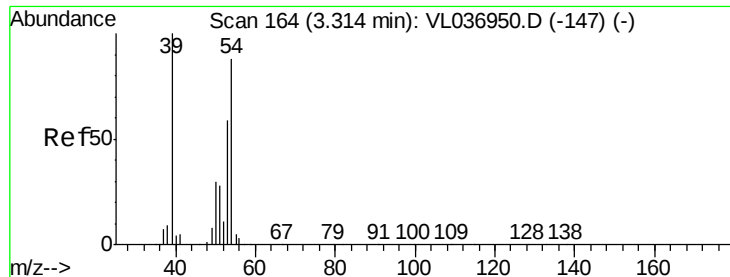
Tot Ion: 45 Resp:19330006
Ion Ratio Lower Upper
45 100
46 43.0 16.3 65.3



#15
Acetone
Concen: 7.086 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.01 min
Lab File: VL037103.D
Acq: 2 Jun 2021 15:52

Tgt Ion: 43 Resp: 1023366
Ion Ratio Lower Upper
43 100
58 48.0 24.0 36.0#

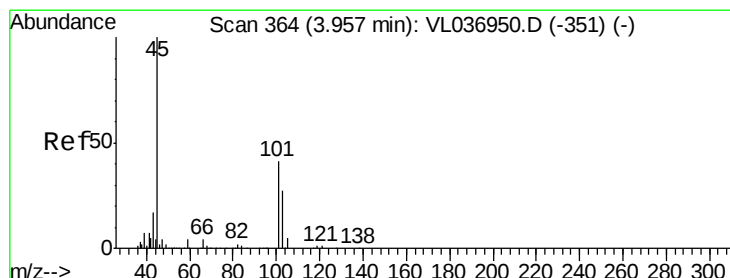
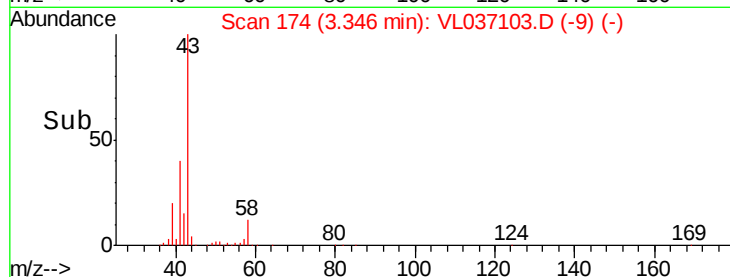
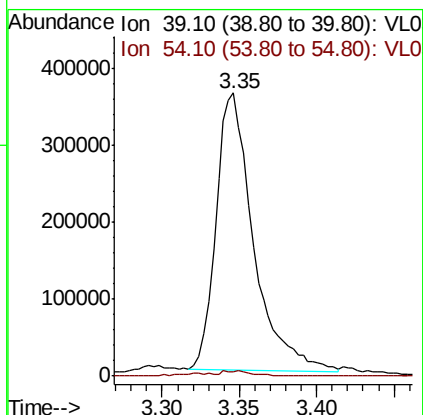
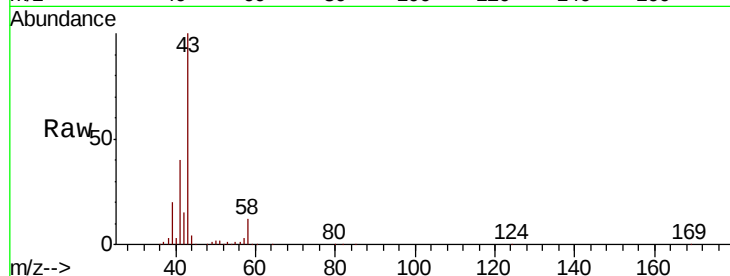




#16
 1,3-Butadiene
 Concen: 6.746 ppbv
 RT: 3.35 min Scan# 174
 Delta R.T. 0.03 min
 Lab File: VL037103.D
 Acq: 2 Jun 2021 15:52

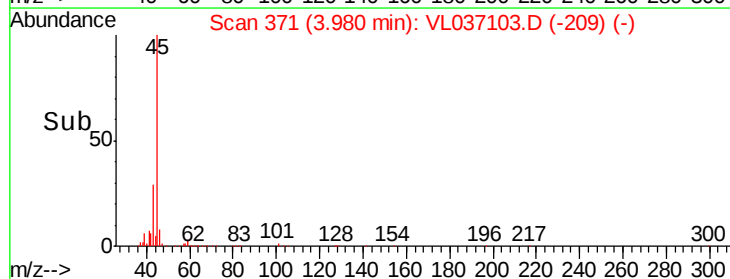
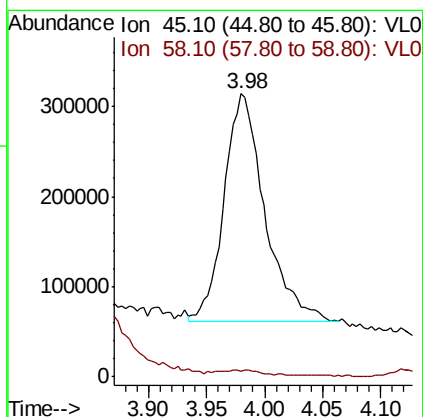
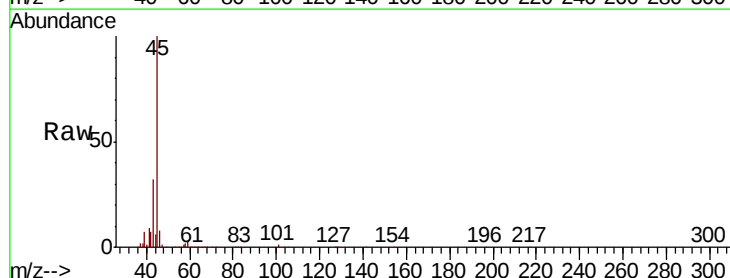
Instrument :
 MSVOA_L
 ClientSampleId :

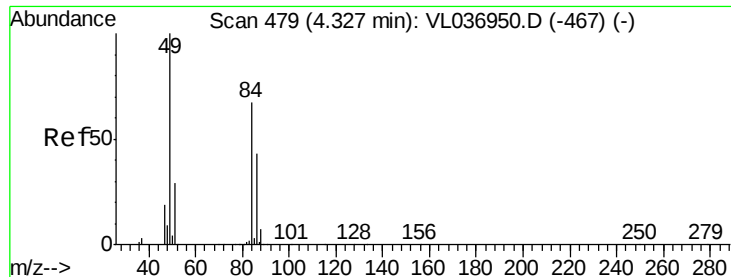
Tot Ion: 39 Resp: 605293
 Ion Ratio Lower Upper
 39 100
 54 2.9 63.2 94.8#



#19
 Isopropyl Alcohol
 Concen: 7.945 ppbv
 RT: 3.98 min Scan# 371
 Delta R.T. 0.02 min
 Lab File: VL037103.D
 Acq: 2 Jun 2021 15:52

Tgt Ion: 45 Resp: 616761
 Ion Ratio Lower Upper
 45 100
 58 4.3 37.2 55.8#

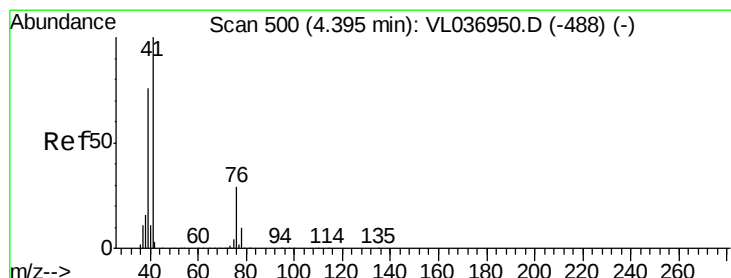
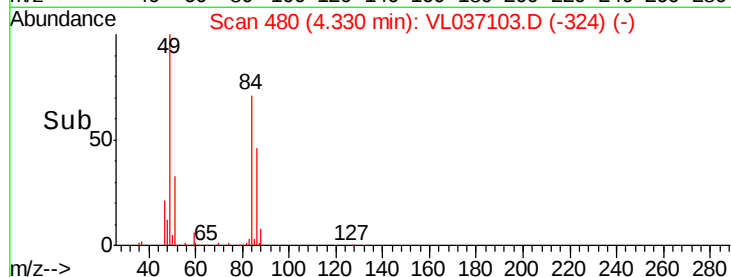
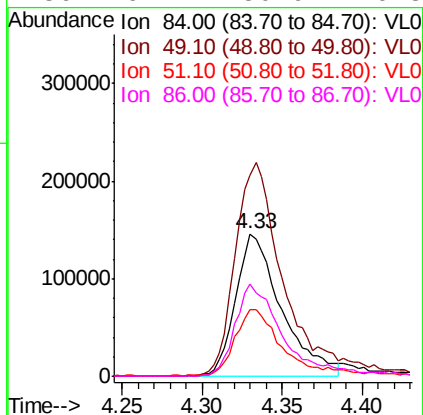
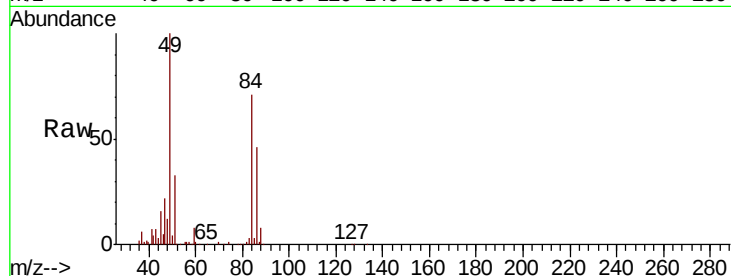




#20
Methylene Chloride
Concen: 3.686 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL037103.D
Acq: 2 Jun 2021 15:52

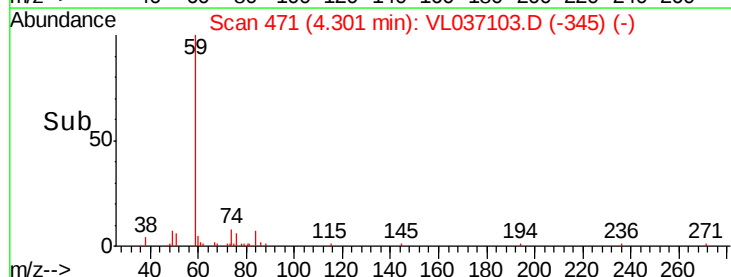
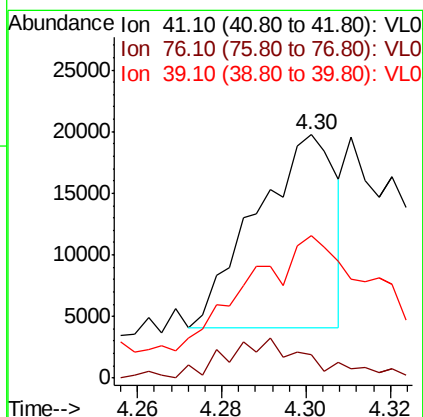
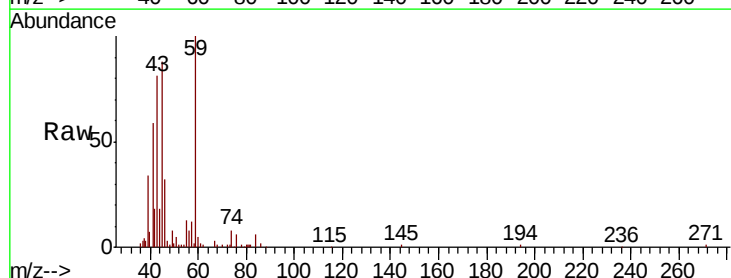
Instrument :
MSVOA_L
ClientSampleId :

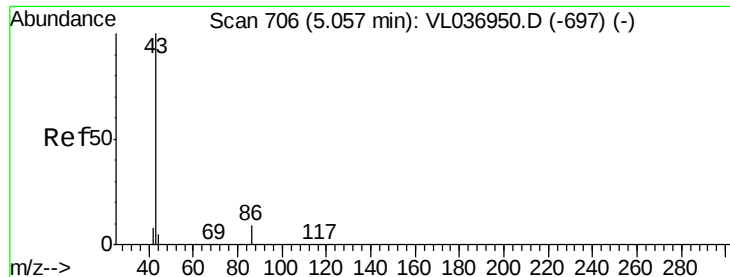
Tot Ion:	84	Resp:	285330
Ion	Ratio	Lower	Upper
84	100		
49	140.4	119.8	179.6
51	45.8	35.1	52.7
86	64.7	50.9	76.3



#21
Allyl Chloride
Concen: 0.189 ppbv
RT: 4.30 min Scan# 471
Delta R.T. -0.09 min
Lab File: VL037103.D
Acq: 2 Jun 2021 15:52

Tgt Ion:	41	Resp:	20618
Ion	Ratio	Lower	Upper
41	100		
76	24.6	24.9	37.3#
39	163.5	63.7	95.5#





#23

Vinyl Acetate

Concen: 0.238 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL037103.D

Acq: 2 Jun 2021 15:52

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 54532

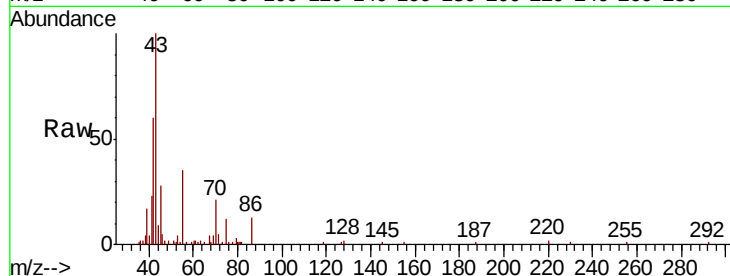
Ion Ratio Lower Upper

43 100

86 13.9 5.8 8.8#

42 59.3 7.4 11.2#

44 2.0 3.3 4.9#

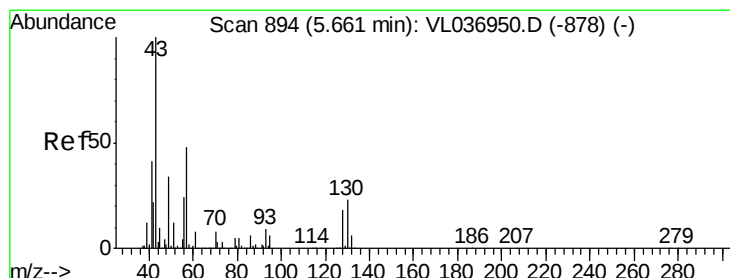
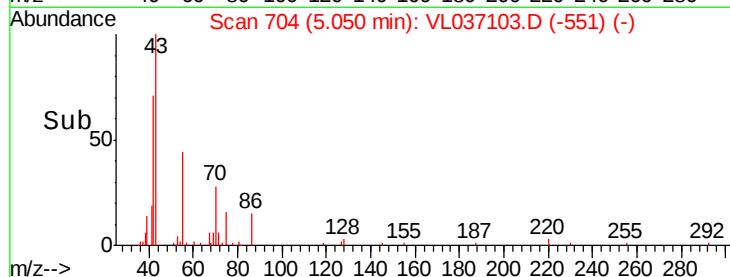
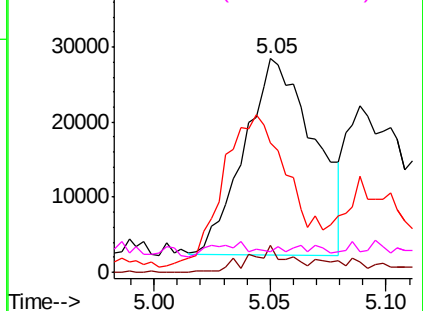


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.515 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL037103.D

Acq: 2 Jun 2021 15:52

Tgt Ion: 43 Resp: 178770

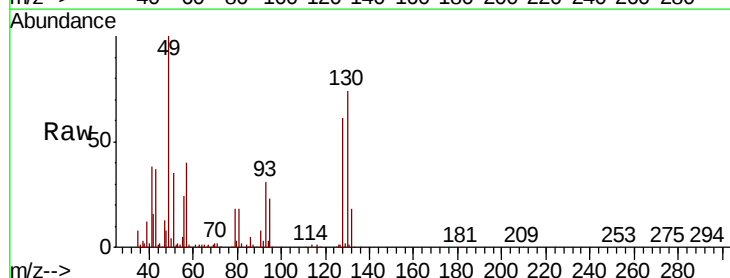
Ion Ratio Lower Upper

43 100

45 5.4 7.8 11.8#

61 4.1 7.8 11.8#

70 4.7 5.6 8.4#

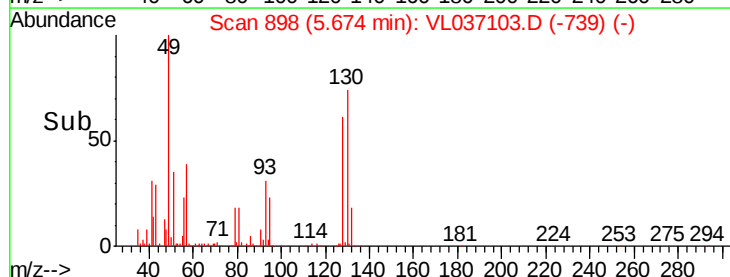
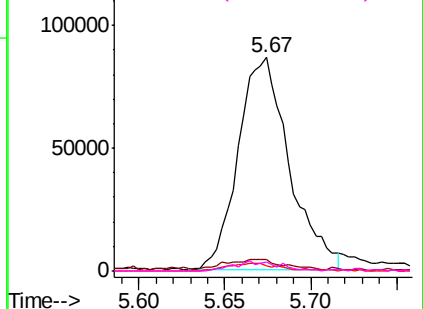


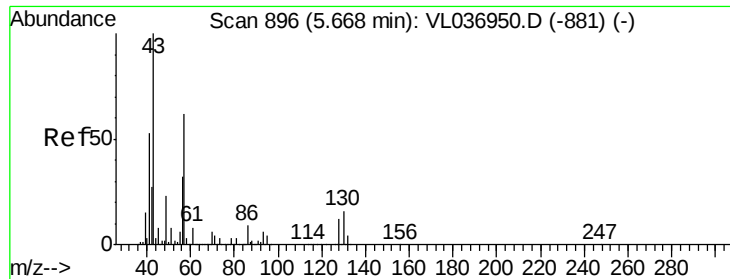
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

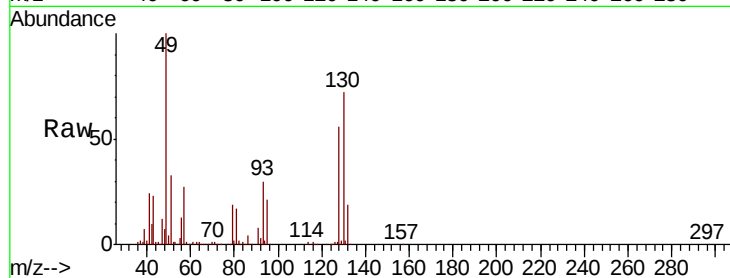




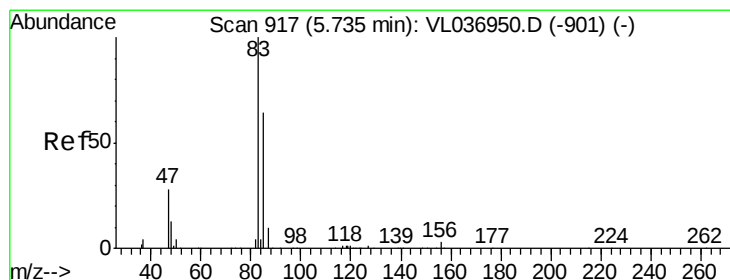
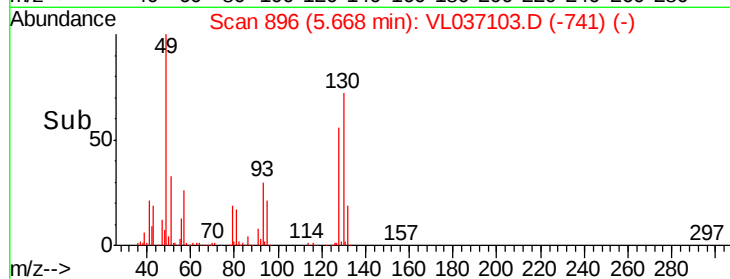
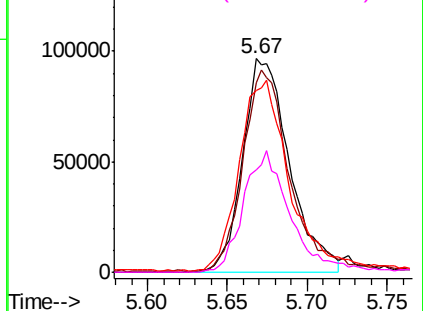
#26
Hexane
Concen: 1.090 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL037103.D
Acq: 2 Jun 2021 15:52

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 57 Resp: 193223
Ion Ratio Lower Upper
57 100
41 96.6 70.5 105.7
43 98.7 165.8 248.8#
56 56.8 42.2 63.4

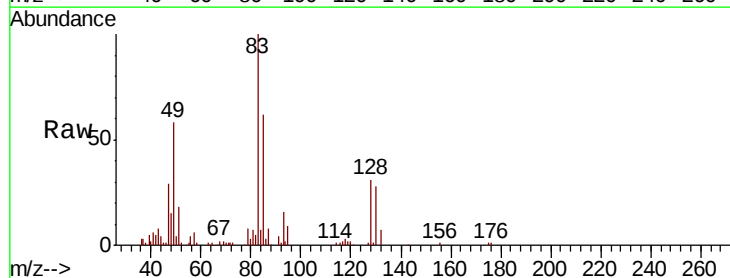


Abundance Ion 57.10 (56.80 to 57.80): VL0
150000 Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

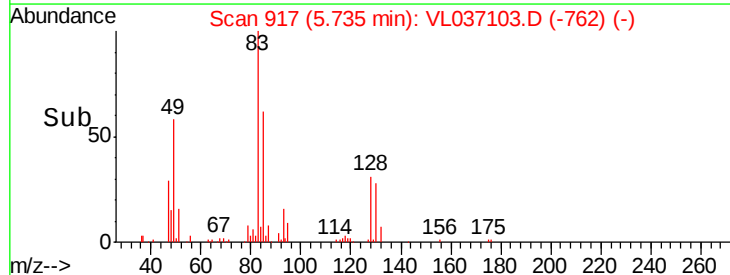
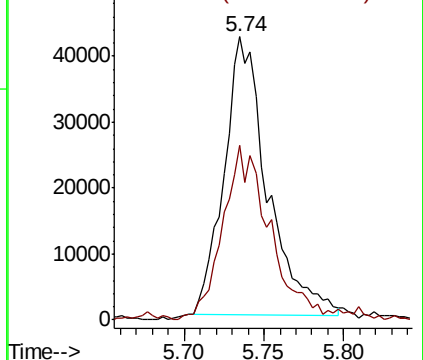


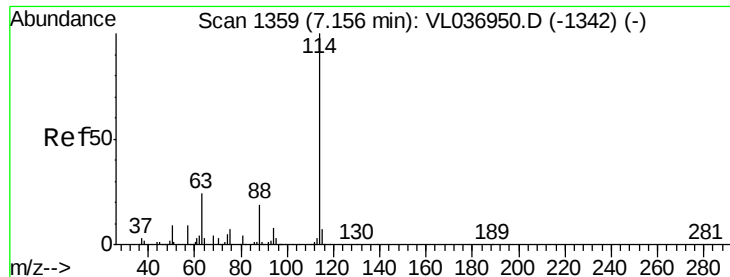
#29
Chloroform
Concen: 0.313 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.00 min
Lab File: VL037103.D
Acq: 2 Jun 2021 15:52

Tgt Ion: 83 Resp: 78295
Ion Ratio Lower Upper
83 100
85 60.8 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VL0
50000 Ion 85.00 (84.70 to 85.70): VL0

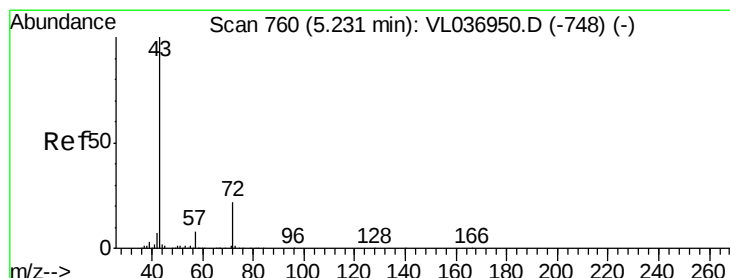
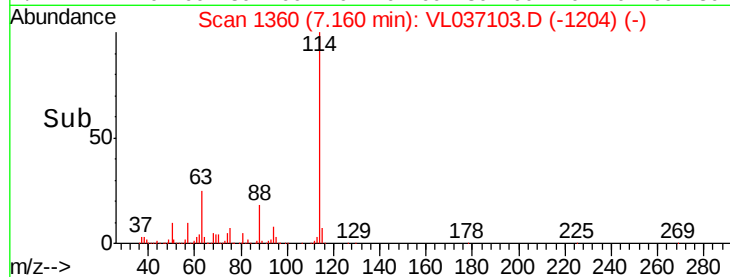
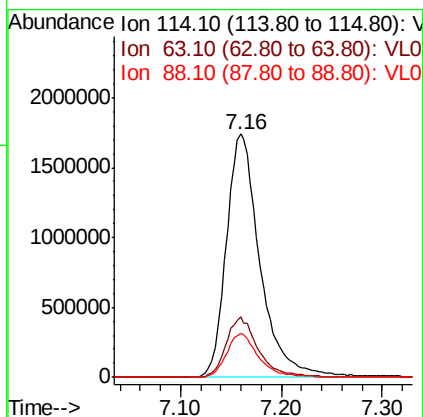
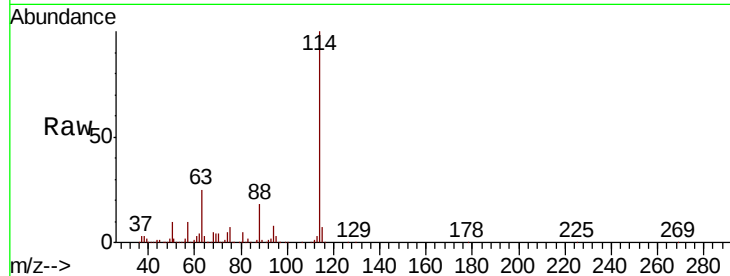




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. 0.00 min
 Lab File: VL037103.D
 Acq: 2 Jun 2021 15:52

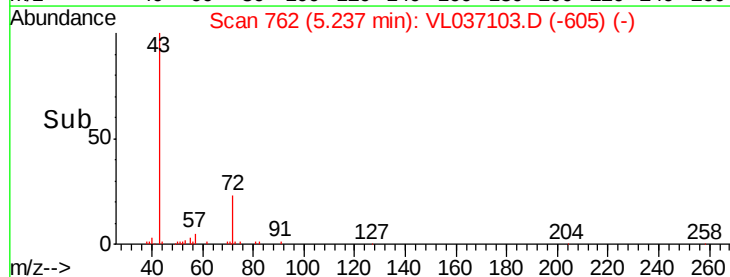
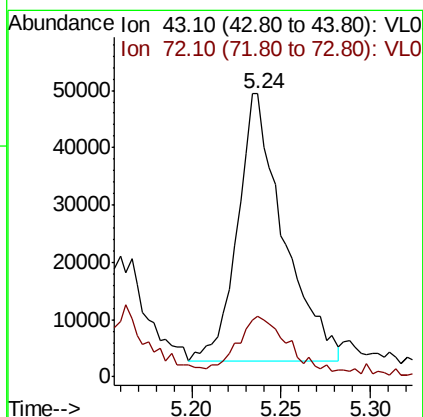
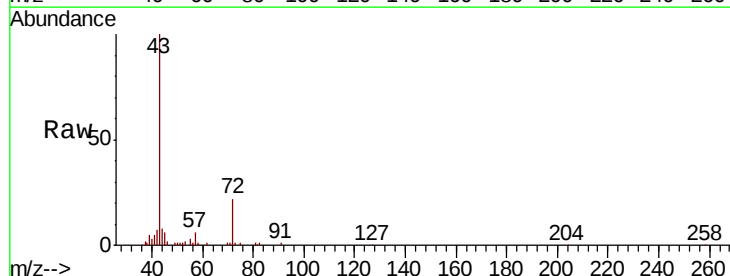
Instrument :
 MSVOA_L
 ClientSampleId :

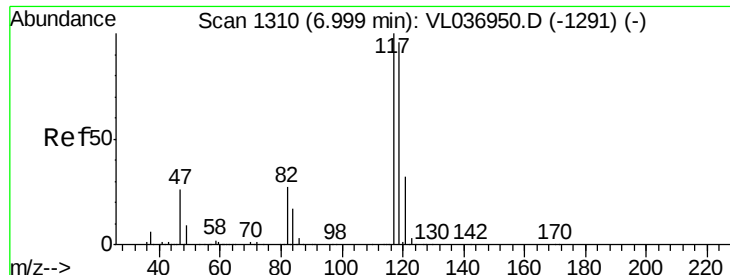
Tot Ion:114 Resp: 4031606
 Ion Ratio Lower Upper
 114 100
 63 24.0 19.6 29.4
 88 17.6 14.6 21.8



#34
 2-Butanone
 Concen: 0.573 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.01 min
 Lab File: VL037103.D
 Acq: 2 Jun 2021 15:52

Tgt Ion: 43 Resp: 84172
 Ion Ratio Lower Upper
 43 100
 72 28.8 19.0 28.4#

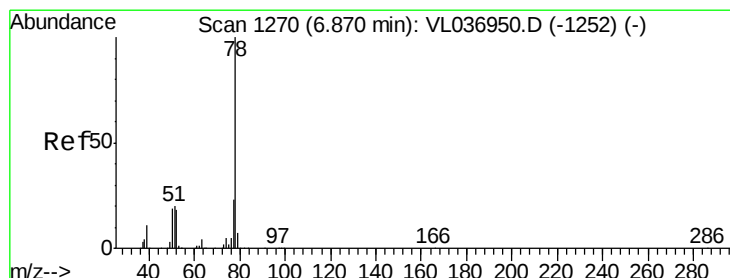
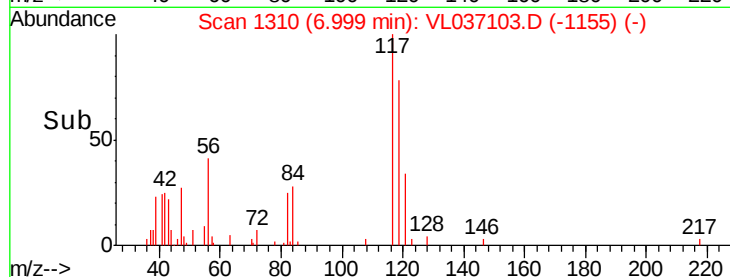
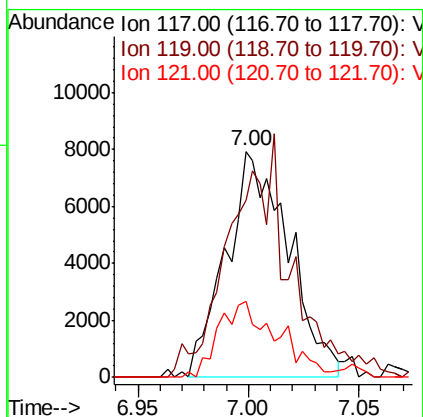
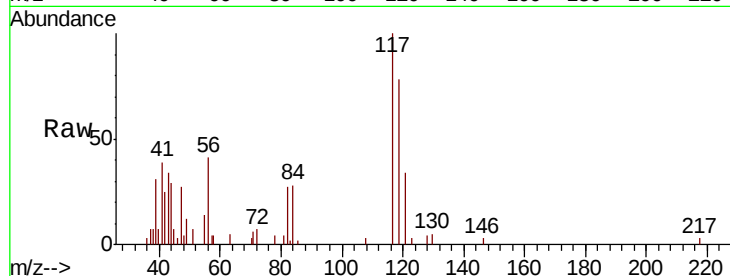




#35
Carbon Tetrachloride
Concen: 0.058 ppbv
RT: 7.00 min Scan# 1310
Delta R.T. -0.00 min
Lab File: VL037103.D
Acq: 2 Jun 2021 15:52

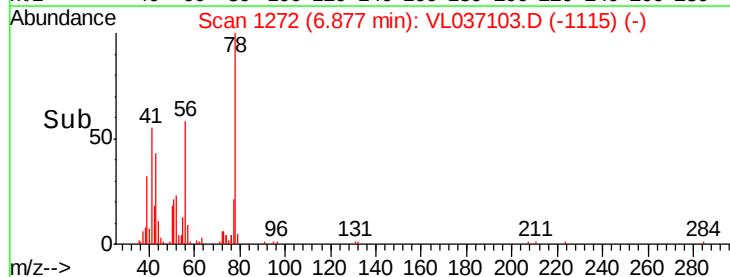
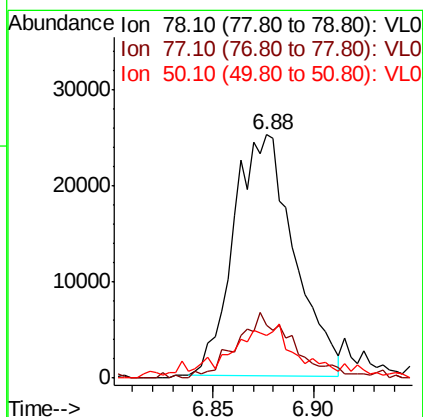
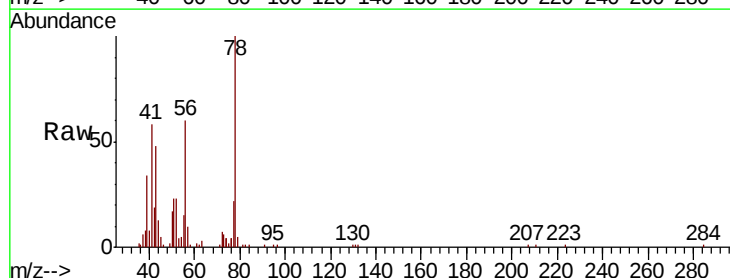
Instrument :
MSVOA_L
ClientSampleId :

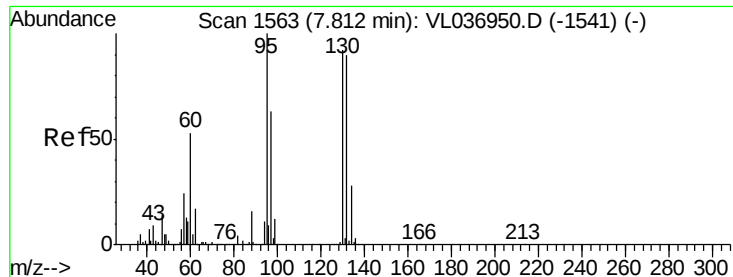
Tot Ion:117 Resp: 15612
Ion Ratio Lower Upper
117 100
119 68.1 76.6 114.8#
121 31.3 25.8 38.6



#36
Benzene
Concen: 0.152 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VL037103.D
Acq: 2 Jun 2021 15:52

Tgt Ion: 78 Resp: 52849
Ion Ratio Lower Upper
78 100
77 21.8 18.6 28.0
50 15.1 15.0 22.4

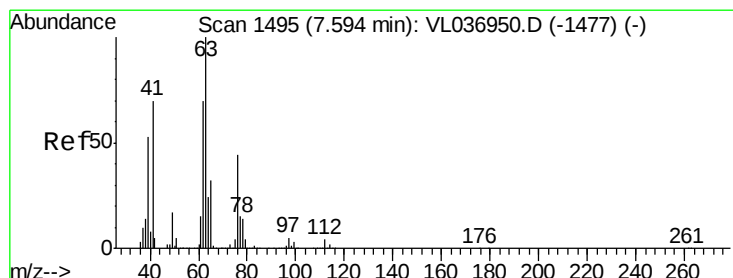
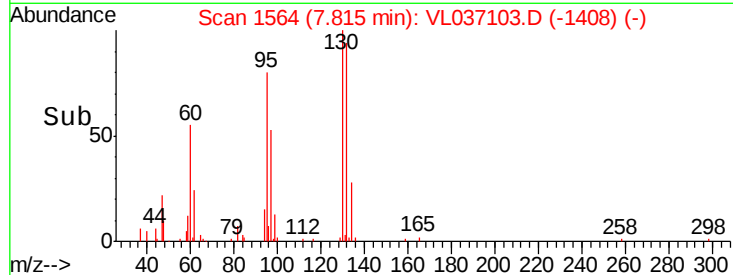
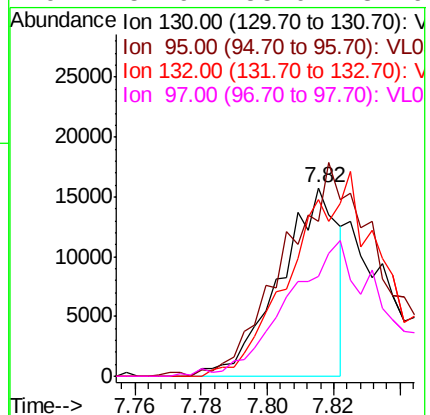
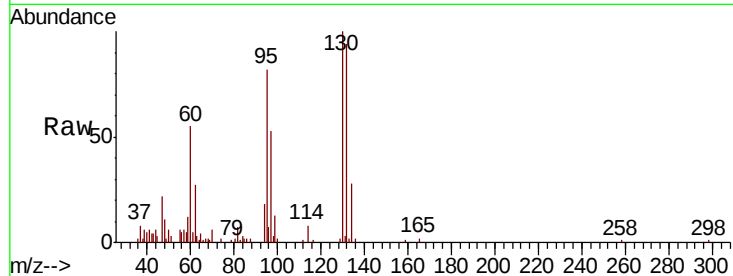




#38
 Trichloroethene
 Concen: 0.130 ppbv
 RT: 7.82 min Scan# 1564
 Delta R.T. 0.00 min
 Lab File: VL037103.D
 Acq: 2 Jun 2021 15:52

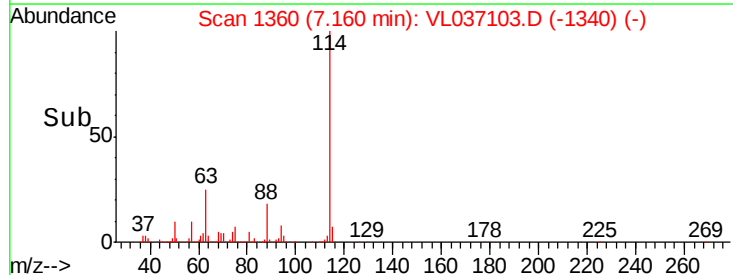
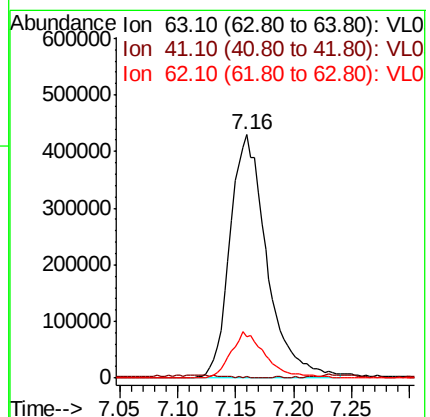
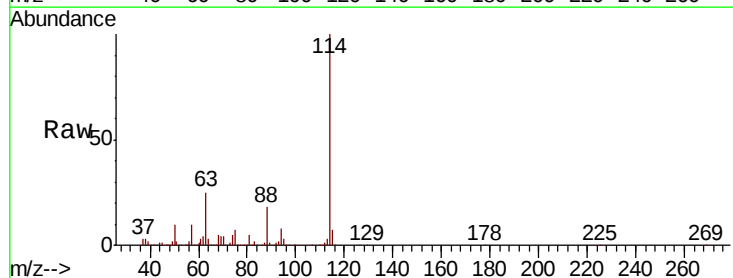
Instrument :
 MSVOA_L
 ClientSampleId :

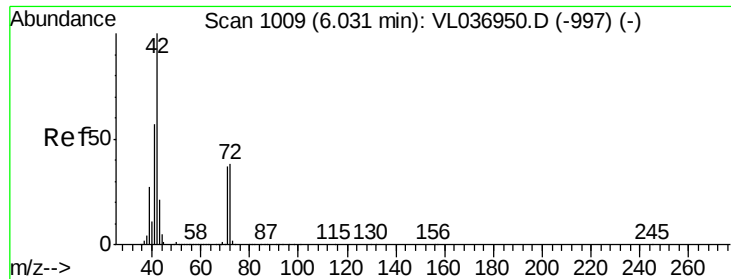
Tot Ion:130 Resp: 19288
 Ion Ratio Lower Upper
 130 100
 95 82.0 86.9 130.3#
 132 93.6 78.4 117.6
 97 51.9 55.0 82.6#



#39
 1,2-Dichloropropane
 Concen: 7.112 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.43 min
 Lab File: VL037103.D
 Acq: 2 Jun 2021 15:52

Tgt Ion: 63 Resp: 951394
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.7 83.5#
 62 16.7 56.2 84.4#

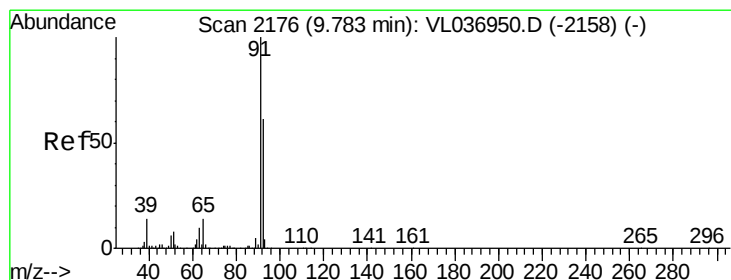
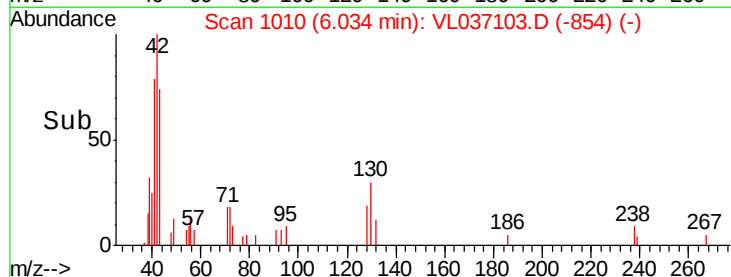
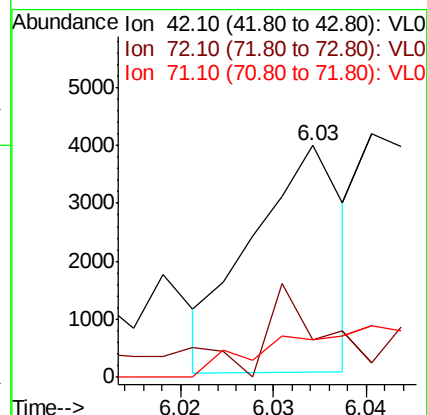
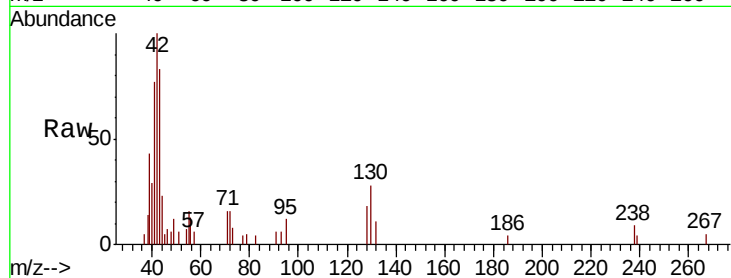




#41
Tetrahydrofuran
Concen: 0.032 ppbv
RT: 6.03 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VL037103.D
Acq: 2 Jun 2021 15:52

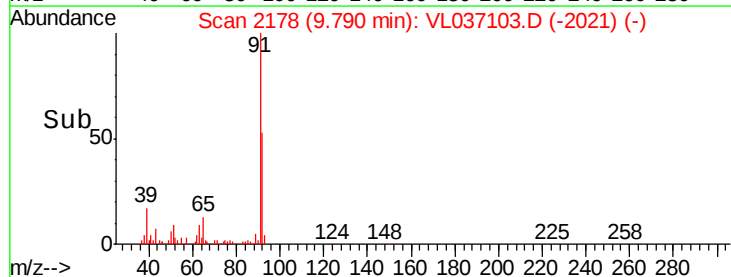
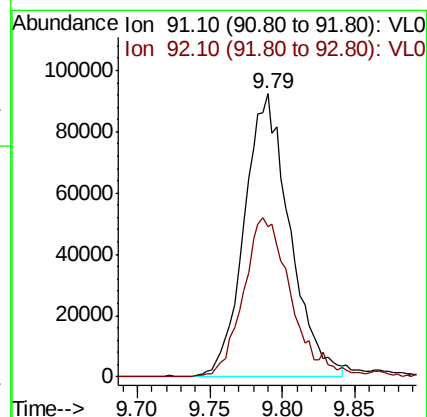
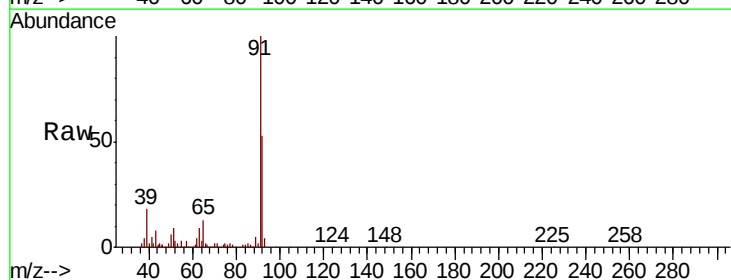
Instrument :
MSVOA_L
ClientSampleId :

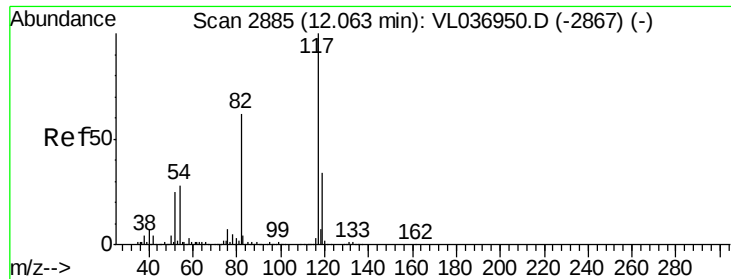
Tot Ion: 42 Resp: 2656
Ion Ratio Lower Upper
42 100
72 123.8 31.4 47.2#
71 0.0 30.4 45.6#



#53
Toluene
Concen: 0.487 ppbv
RT: 9.79 min Scan# 2178
Delta R.T. 0.01 min
Lab File: VL037103.D
Acq: 2 Jun 2021 15:52

Tgt Ion: 91 Resp: 201321
Ion Ratio Lower Upper
91 100
92 60.0 49.5 74.3

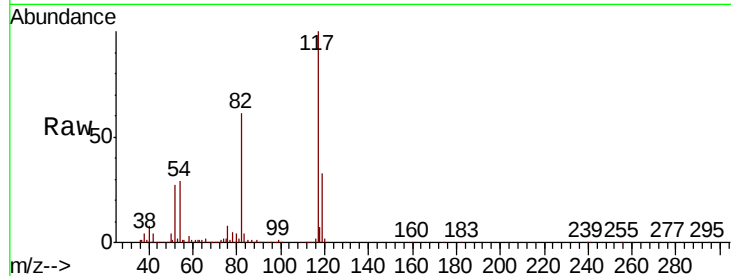




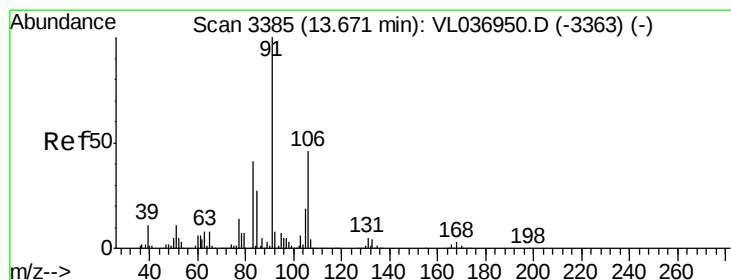
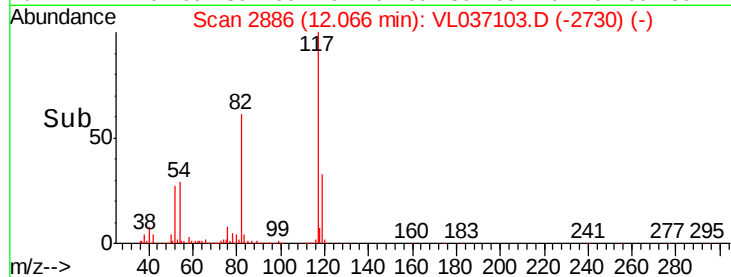
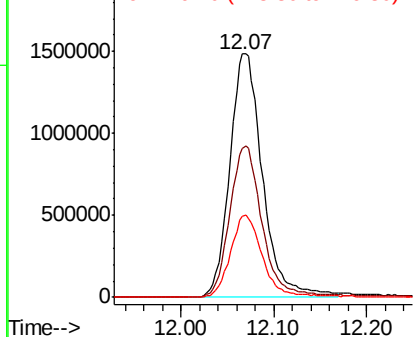
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. 0.00 min
Lab File: VL037103.D
Acq: 2 Jun 2021 15:52

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3649214
Ion Ratio Lower Upper
117 100
82 63.5 52.6 79.0
119 33.7 46.6 70.0#

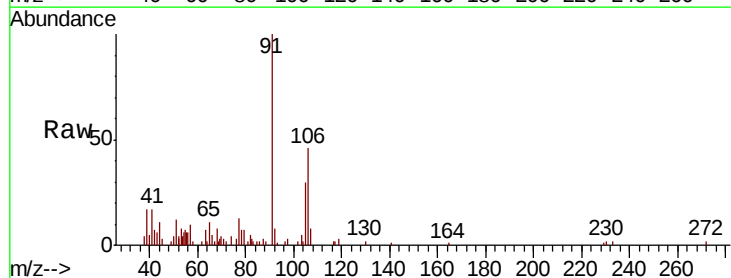


Abundance Ion 117.10 (116.80 to 117.80): V
2000000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

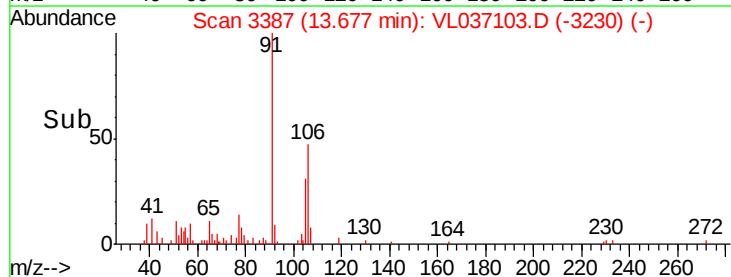
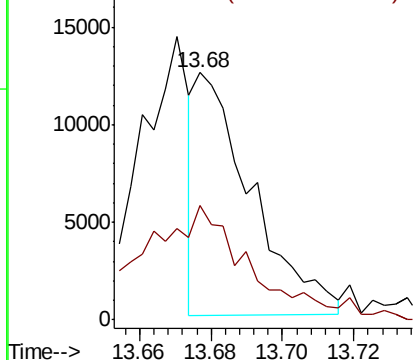


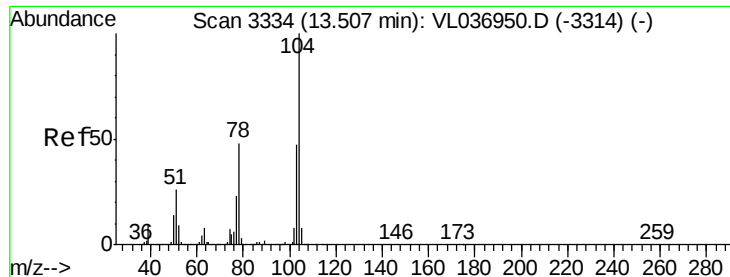
#60
o-Xylene
Concen: 0.033 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. 0.01 min
Lab File: VL037103.D
Acq: 2 Jun 2021 15:52

Tgt Ion: 91 Resp: 13408
Ion Ratio Lower Upper
91 100
106 96.1 23.4 70.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

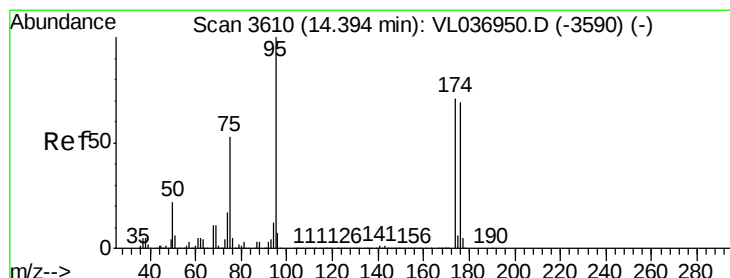
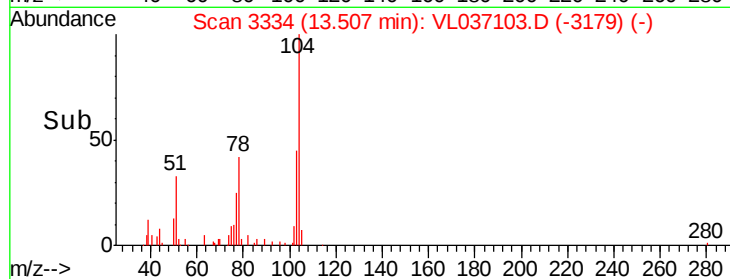
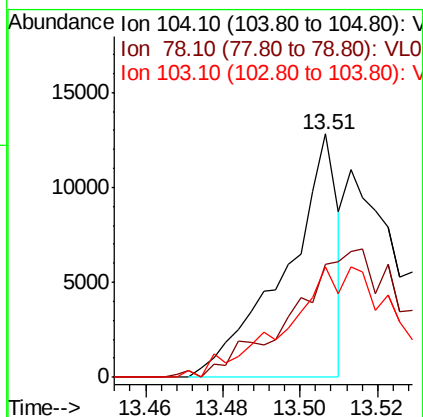
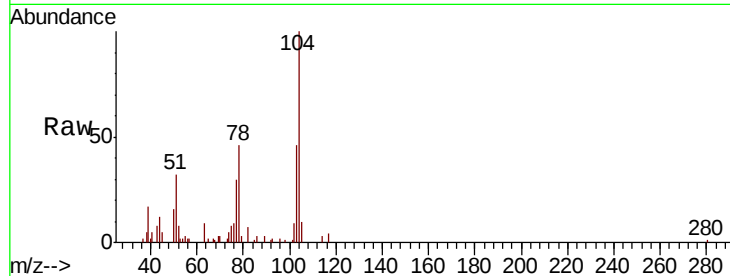




#61
Stvrene
Concen: 0.052 ppbv
RT: 13.51 min Scan# 3334
Delta R.T. -0.00 min
Lab File: VL037103.D
Acq: 2 Jun 2021 15:52

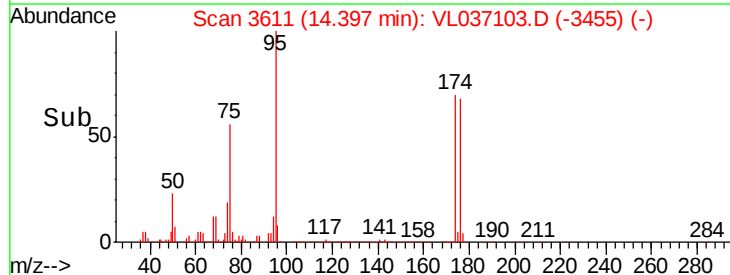
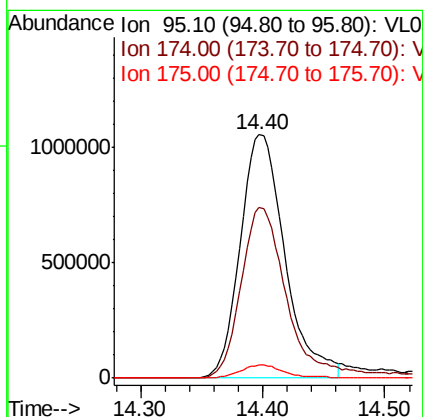
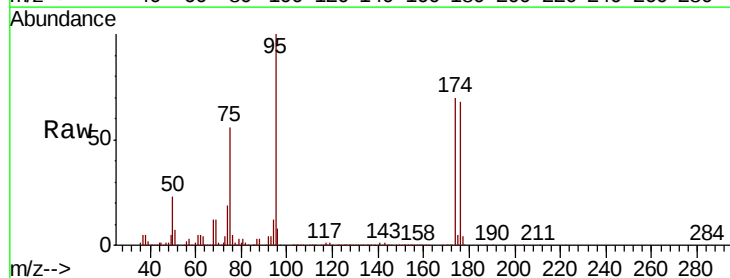
Instrument :
MSVOA_L
ClientSampleId :

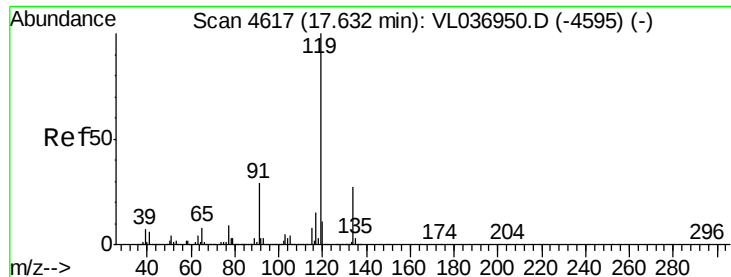
Tot Ion:104 Resp: 11997
Ion Ratio Lower Upper
104 100
78 0.0 39.0 58.6#
103 107.1 38.0 57.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.777 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. 0.00 min
Lab File: VL037103.D
Acq: 2 Jun 2021 15:52

Tgt Ion: 95 Resp: 2680237
Ion Ratio Lower Upper
95 100
174 75.2 58.4 87.6
175 5.7 4.4 6.6

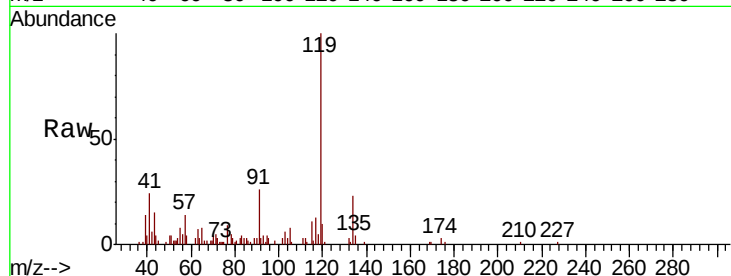




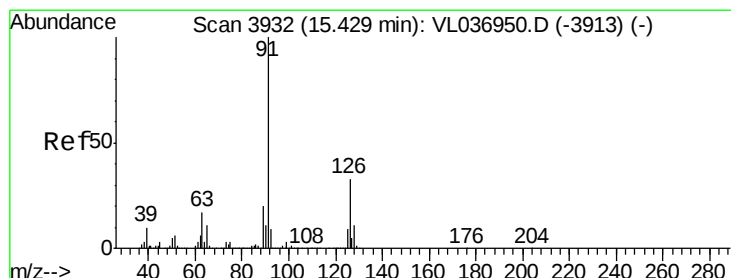
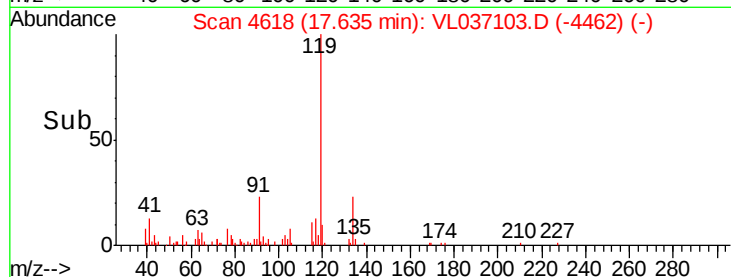
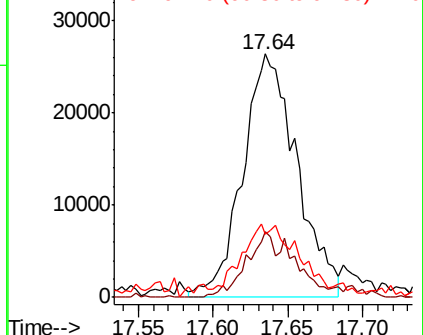
#69
 p-Isopropyltoluene
 Concen: 0.107 ppbv
 RT: 17.64 min Scan# 4618
 Delta R.T. 0.00 min
 Lab File: VL037103.D
 Acq: 2 Jun 2021 15:52

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.2	21.2	31.8
91	36.3	22.2	33.4

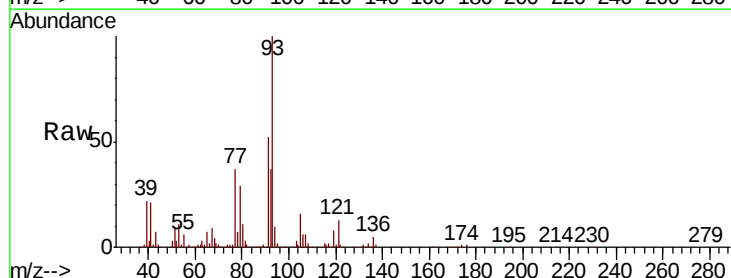


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

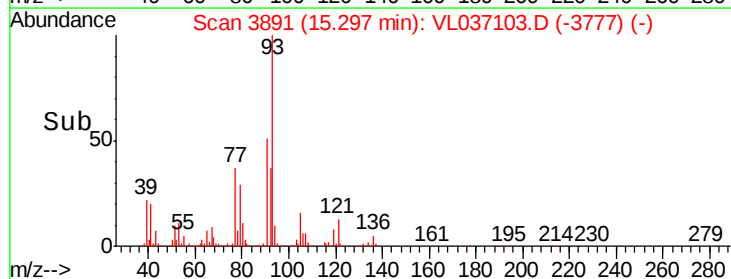
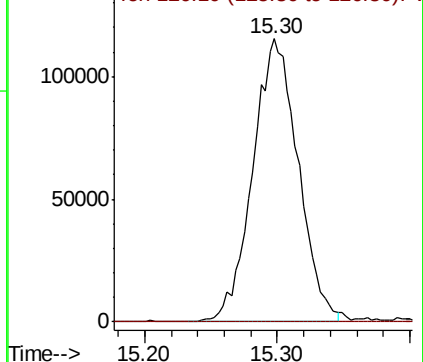


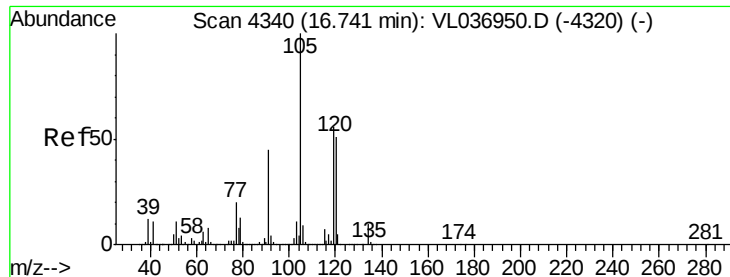
#71
 2-Chlorotoluene
 Concen: 0.655 ppbv
 RT: 15.30 min Scan# 3891
 Delta R.T. -0.13 min
 Lab File: VL037103.D
 Acq: 2 Jun 2021 15:52

Tgt Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.1	52.5



Abundance Ion 91.10 (90.80 to 91.80): V
 Ion 126.10 (125.80 to 126.80): V





#74

1,2,4-Trimethylbenzene

Concen: 0.038 ppbv

RT: 16.74 min Scan# 4341

Delta R.T. 0.00 min

Lab File: VL037103.D

Acq: 2 Jun 2021 15:52

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 17718

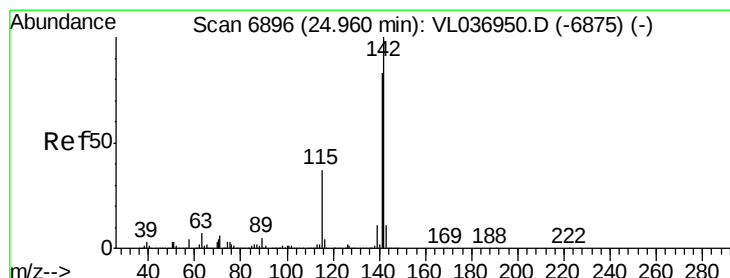
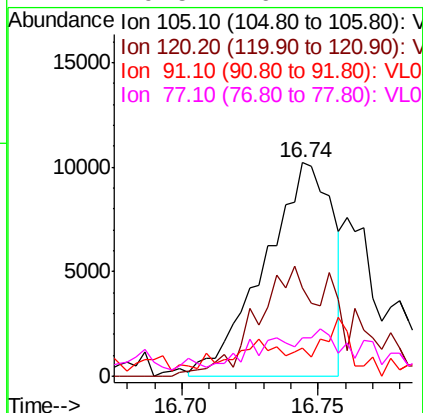
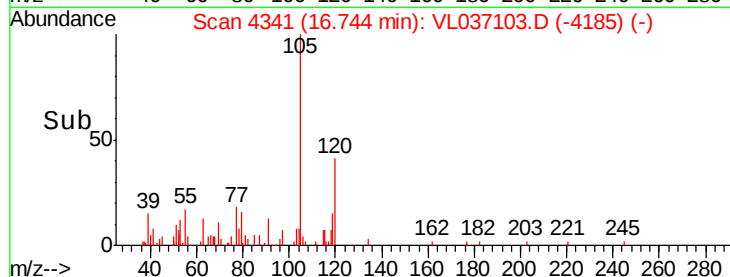
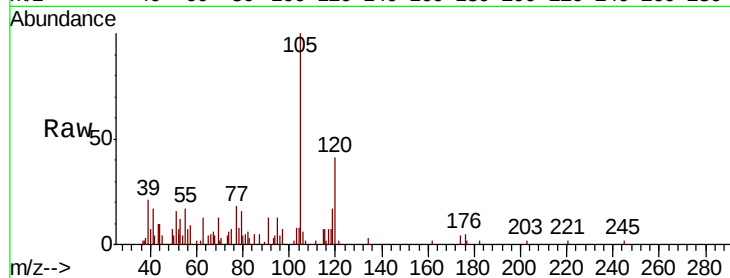
Ion Ratio Lower Upper

105 100

120 38.2 40.6 61.0#

91 8.7 37.4 56.0#

77 9.5 16.2 24.4#



#80

Naphthalene, 2-methyl-

Concen: 0.030 ppbv

RT: 24.97 min Scan# 6898

Delta R.T. 0.01 min

Lab File: VL037103.D

Acq: 2 Jun 2021 15:52

Tgt Ion:142 Resp: 2404

Ion Ratio Lower Upper

142 100

141 72.6 69.3 103.9

115 19.9 29.1 43.7#

