

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080421\
 Data File : VL037335.D
 Acq On : 5 Aug 2021 9:17
 Operator : SY/AP
 Sample : M3239-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 05 09:49:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 04 22:53:01 2021
 QLast Update : Wed Aug 04 22:53:01 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	999011	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3358742	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2919543	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2155740	10.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	61463	0.303	ppbv 97
3) Chlorodifluoromethane	2.98	51	168723	0.831	ppbv 93
4) Chloromethane	3.14	50	9714	0.134	ppbv 91
7) Chloroethane	3.56	64	908	0.034	ppbv # 74
9) Propene	3.01	41	83410	1.136	ppbv 89
10) Heptane	8.11	43	436240	2.543	ppbv 99
11) Trichlorofluoromethane	3.95	101	50027	0.268	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.48	101	6482	0.048	ppbv # 64
13) Ethanol	3.61	45	81043	7.326	ppbv 90
15) Acetone	3.84	43	2535343	23.363	ppbv 100
16) 1,3-Butadiene	3.30	39	63060	0.902	ppbv # 16
17) tert-Butyl alcohol	4.29	59	71387	0.655	ppbv # 87
19) Isopropyl Alcohol	3.97	45	59792	0.996	ppbv # 93
20) Methylene Chloride	4.34	84	50131	0.558	ppbv 96
21) Allyl Chloride	4.30	41	19774	0.225	ppbv # 73
23) Vinyl Acetate	5.05	43	89233	0.545	ppbv # 38
25) Ethyl Acetate	5.68	43	957829	3.394	ppbv # 76
26) Hexane	5.68	57	1383335	8.761	ppbv # 46
27) Carbon Disulfide	4.54	76	19817	0.154	ppbv # 37
29) Chloroform	5.74	83	320800	1.604	ppbv 95
30) Cyclohexane	7.12	84	10386	0.085	ppbv # 1
32) 1,1,1-Trichloroethane	6.50	97	88852	0.466	ppbv 97
34) 2-Butanone	5.24	43	582786	5.000	ppbv 95
36) Benzene	6.88	78	74081	0.245	ppbv # 93
39) 1,2-Dichloropropane	7.16	63	738516	6.561	ppbv # 31
41) Tetrahydrofuran	6.30	42	4962	0.077	ppbv # 37
42) Bromodichloromethane	7.79	83	8651	0.041	ppbv # 59
44) 2,2,4-Trimethylpentane	7.86	57	109319	0.219	ppbv # 1
50) 4-Methyl-2-Pentanone	8.74	43	34316	0.192	ppbv 99
51) 2-Hexanone	10.12	43	603537	7.438	ppbv # 86
52) Tetrachloroethene	11.21	164	44140	0.339	ppbv 94
53) Toluene	9.80	91	2425322	6.797	ppbv 100
57) Chlorobenzene	12.14	112	30184	0.122	ppbv # 33
58) Ethyl Benzene	12.70	91	255208	0.595	ppbv 93
59) m/p-Xylene	12.96	91	670899	1.857	ppbv 93
60) o-Xylene	13.68	91	387279	1.180	ppbv 97
61) Styrene	13.52	104	219970	1.222	ppbv 96
62) Isopropylbenzene	14.65	105	59675	0.125	ppbv # 46
63) 1,1,2,2-Tetrachloroethane	13.65	83	103040	0.432	ppbv # 54
64) n-propylbenzene	15.55	120	44367	0.356	ppbv # 1
65) tert-Butylbenzene	16.75	119	254344	0.579	ppbv # 64

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 04 22:53:01 2021
 QLast Update : Wed Aug 04 22:53:01 2021
 Response via : Initial Calibration

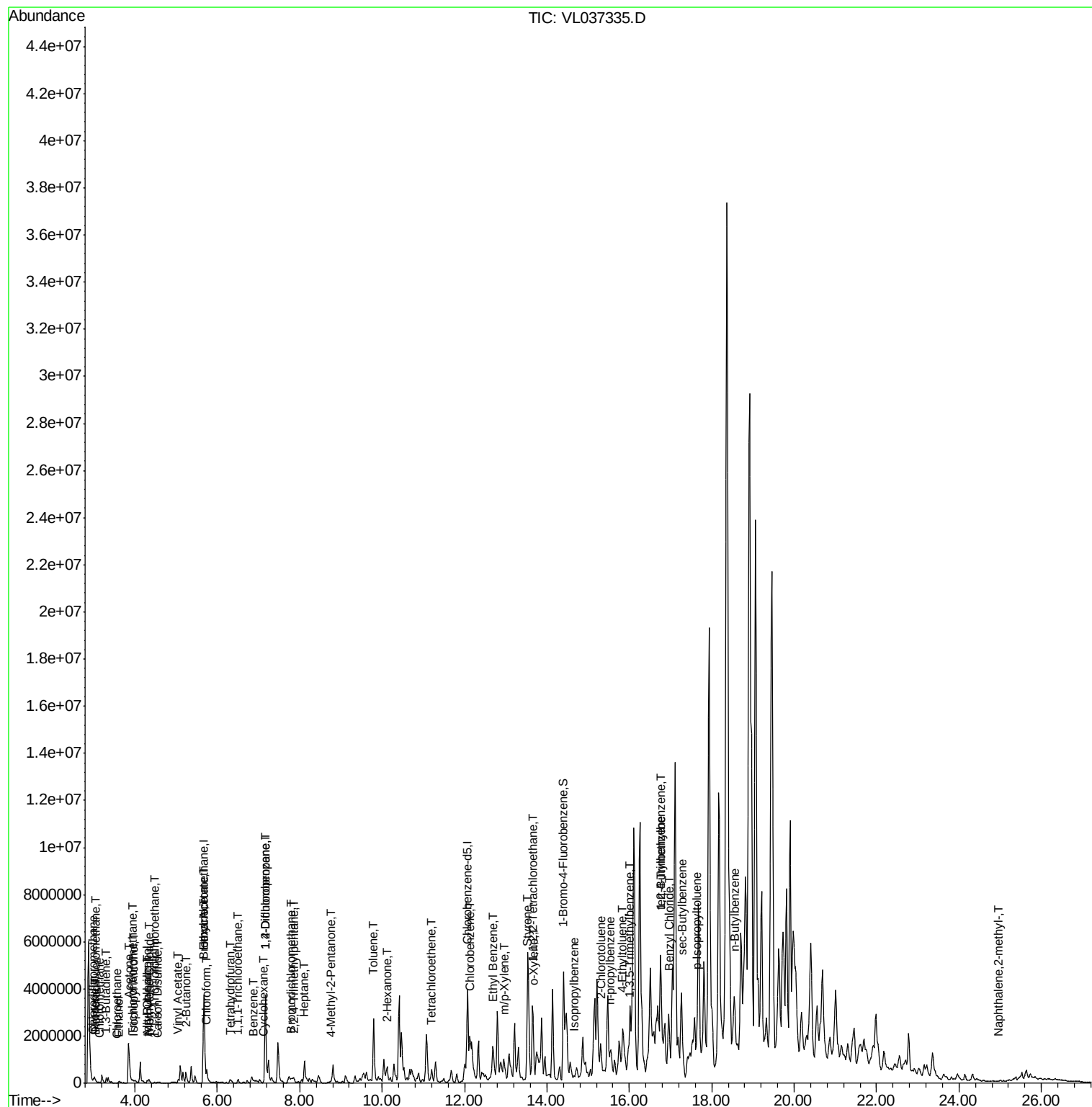
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Benzyl Chloride	16.97	91	3080	0.180	ppbv #	1
67) sec-Butylbenzene	17.28	105	246102	0.415	ppbv	99
69) p-Isopropyltoluene	17.64	119	222083	0.445	ppbv	94
70) n-Butylbenzene	18.55	91	475741	1.043	ppbv #	61
71) 2-Chlorotoluene	15.30	91	158363	0.475	ppbv	80
72) 4-Ethyltoluene	15.82	105	456427	1.152	ppbv #	96
73) 1,3,5-Trimethylbenzene	15.99	105	522032	1.465	ppbv	93
74) 1,2,4-Trimethylbenzene	16.75	105	2162194	5.687	ppbv #	75
80) Naphthalene,2-methyl-	24.96	142	8085	0.143	ppbv #	72

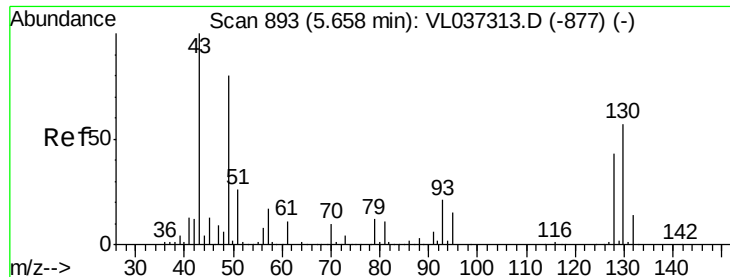
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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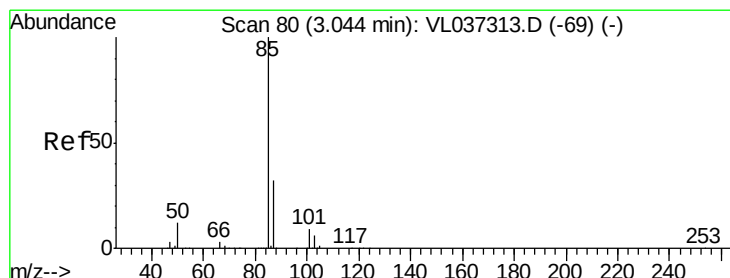
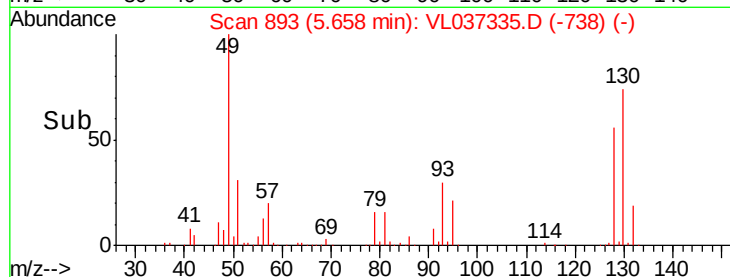
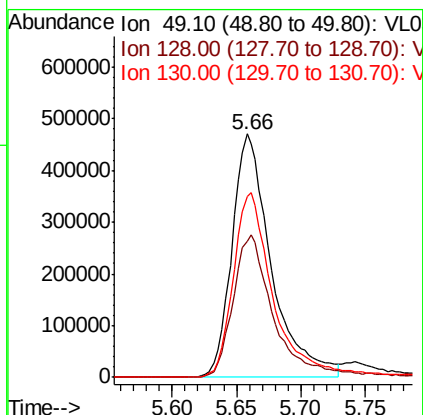
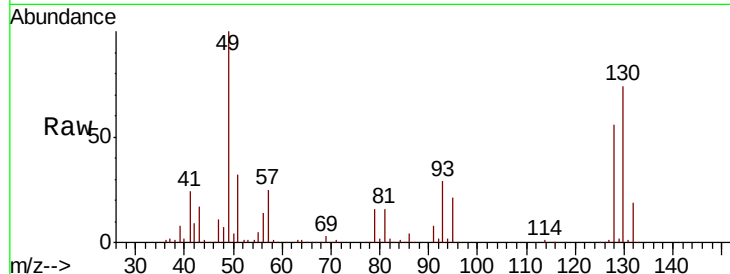




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.00 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

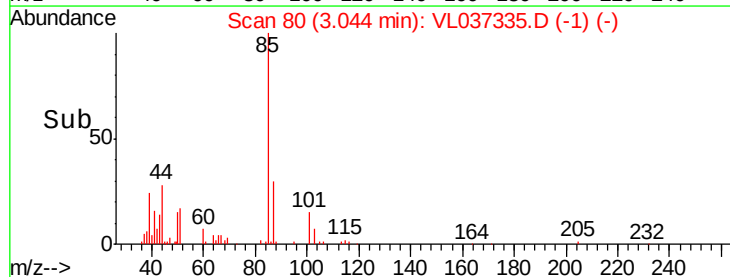
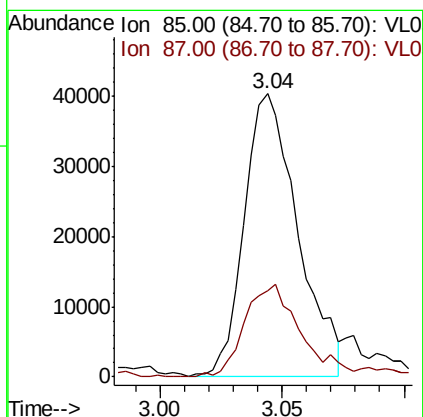
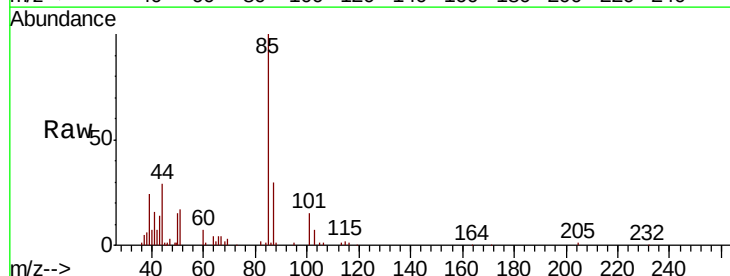
Instrument :
MSVOA_L
ClientSampleId :

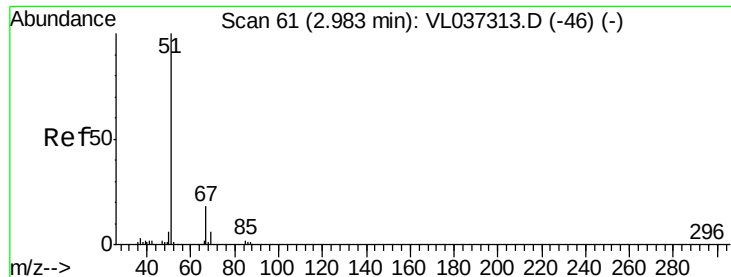
Tot Ion: 49 Resp: 999011
Ion Ratio Lower Upper
49 100
128 61.9 29.8 89.5
130 79.9 37.5 112.7



#2
Dichlorodifluoromethane
Concen: 0.303 ppbv
RT: 3.04 min Scan# 80
Delta R.T. -0.00 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

Tgt Ion: 85 Resp: 61463
Ion Ratio Lower Upper
85 100
87 30.3 25.5 38.3





#3

Chlorodifluoromethane

Concen: 0.831 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

Instrument :

MSVOA_L

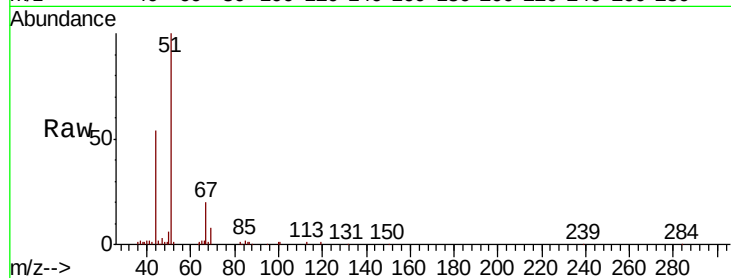
ClientSampleId :

Tot Ion: 51 Resp: 168723

Ion Ratio Lower Upper

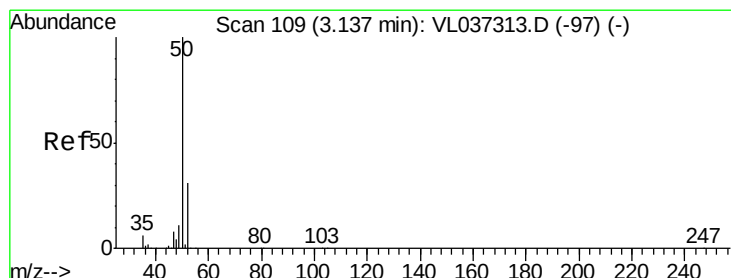
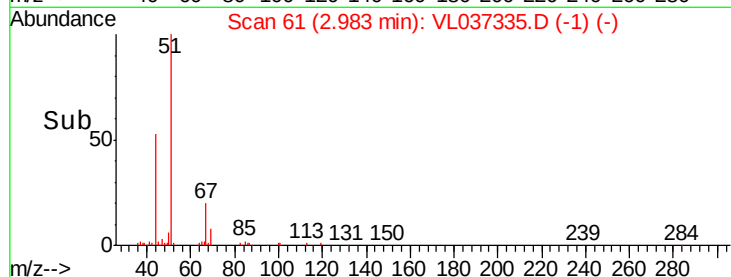
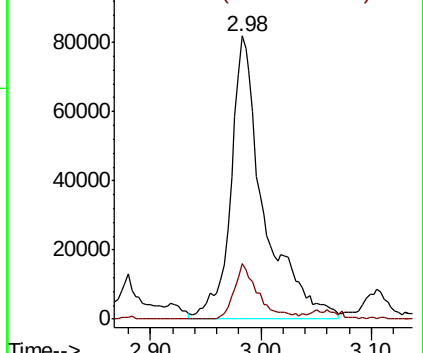
51 100

67 14.8 14.2 21.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.134 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL037335.D

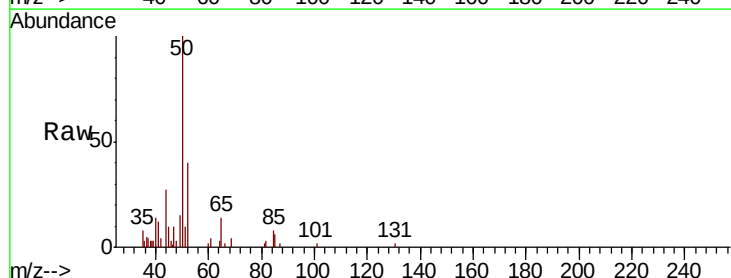
Acq: 5 Aug 2021 9:17

Tgt Ion: 50 Resp: 9714

Ion Ratio Lower Upper

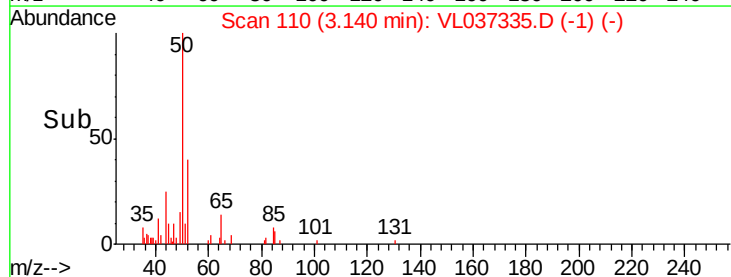
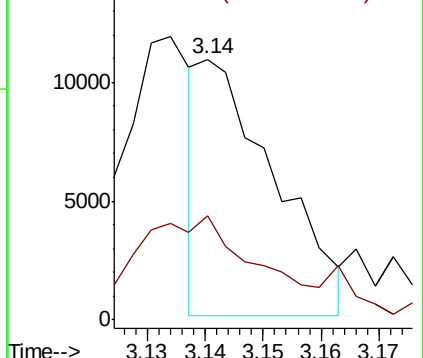
50 100

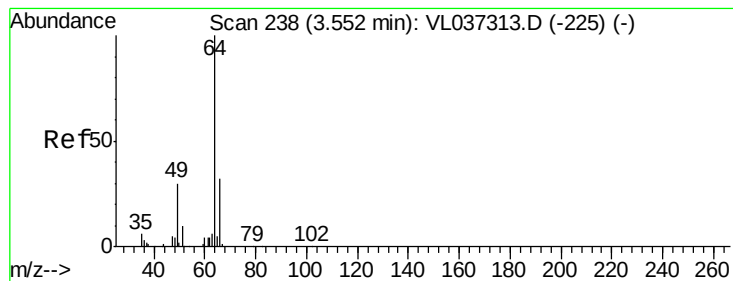
52 26.5 25.1 37.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

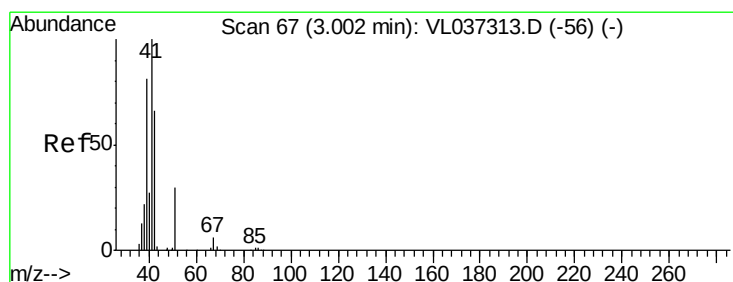
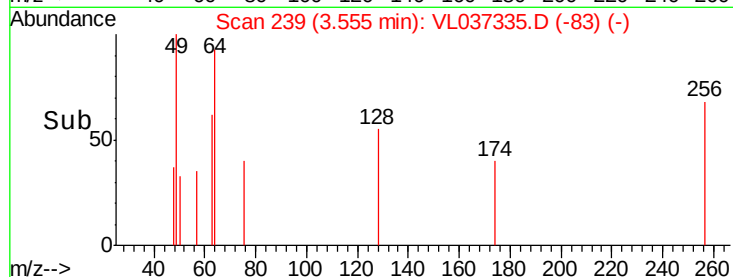
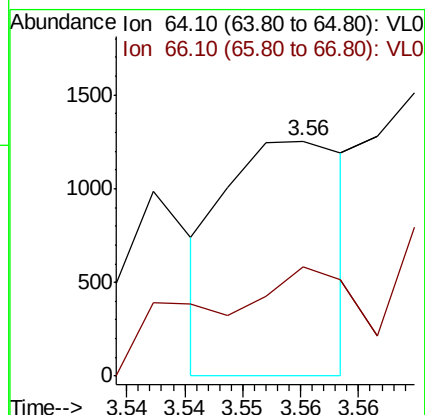
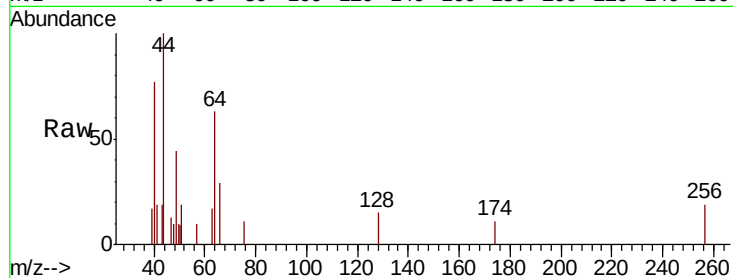




#7
Chloroethane
Concen: 0.034 ppbv
RT: 3.56 min Scan# 239
Delta R.T. 0.00 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

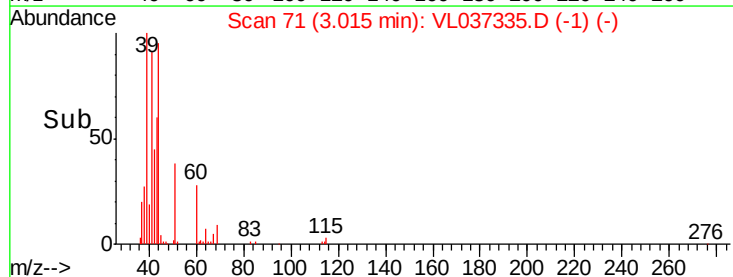
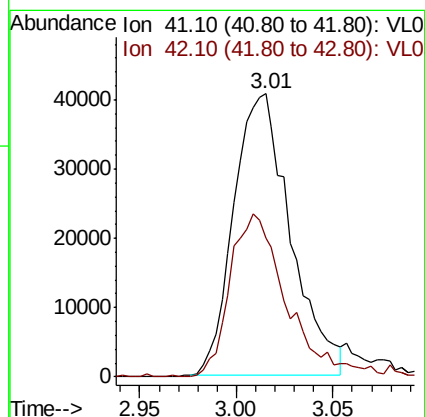
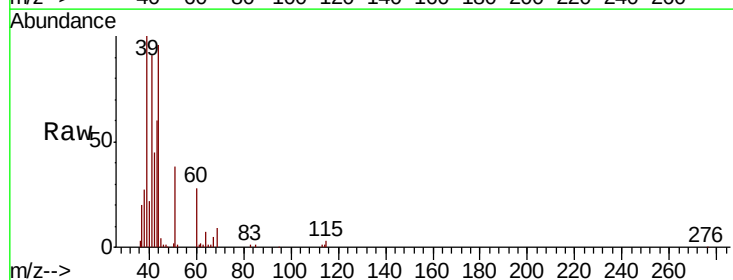
Instrument :
MSVOA_L
ClientSampleId :

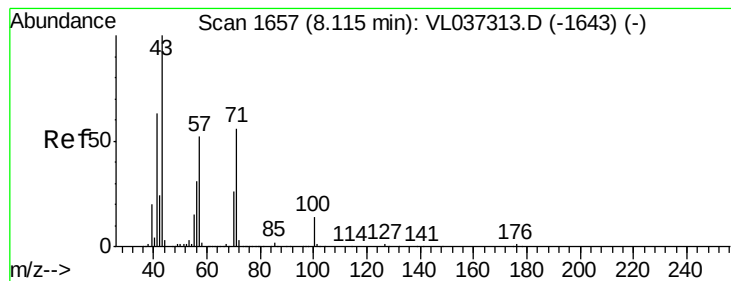
Tot Ion: 64 Resp: 908
Ion Ratio Lower Upper
64 100
66 46.4 25.5 38.3#



#9
Propene
Concen: 1.136 ppbv
RT: 3.01 min Scan# 71
Delta R.T. 0.01 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

Tgt Ion: 41 Resp: 83410
Ion Ratio Lower Upper
41 100
42 58.7 53.8 80.8





#10

Heptane

Concen: 2.543 ppbv

RT: 8.11 min Scan# 1656

Delta R.T. -0.00 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

Instrument :

MSVOA_L

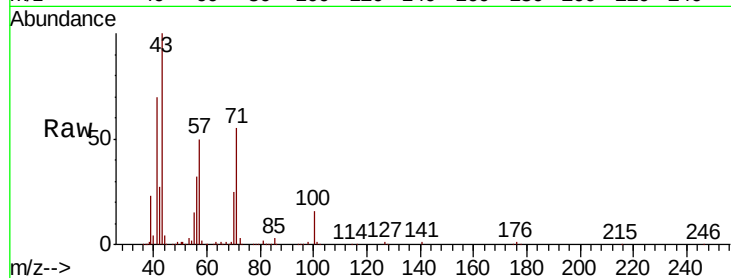
ClientSampleId :

Tot Ion: 43 Resp: 436240

Ion Ratio Lower Upper

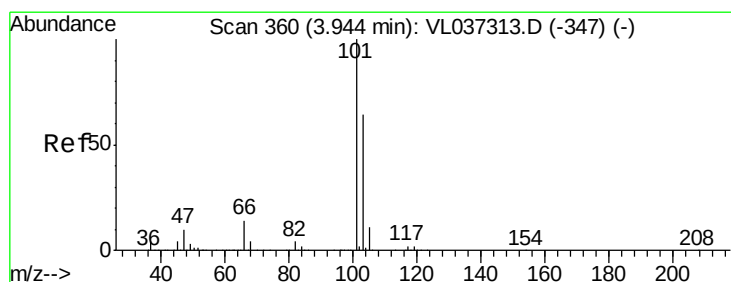
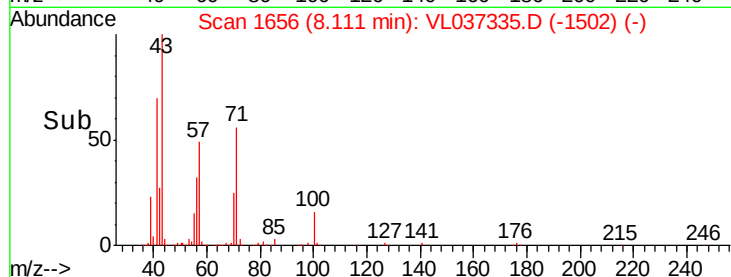
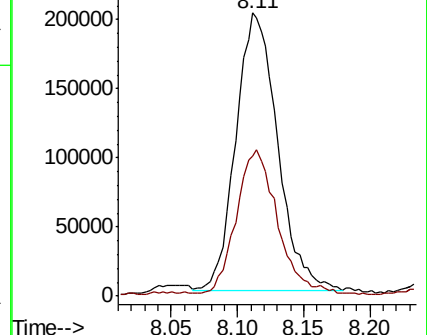
43 100

57 52.1 42.4 63.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.268 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.00 min

Lab File: VL037335.D

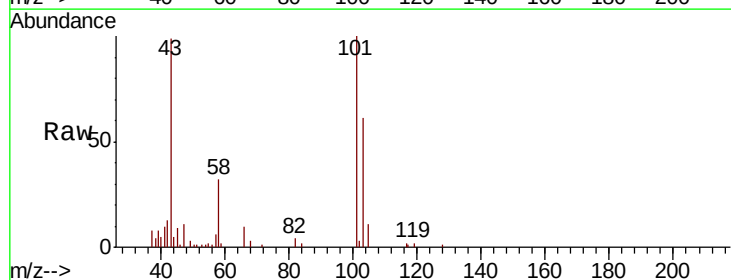
Acq: 5 Aug 2021 9:17

Tgt Ion: 101 Resp: 50027

Ion Ratio Lower Upper

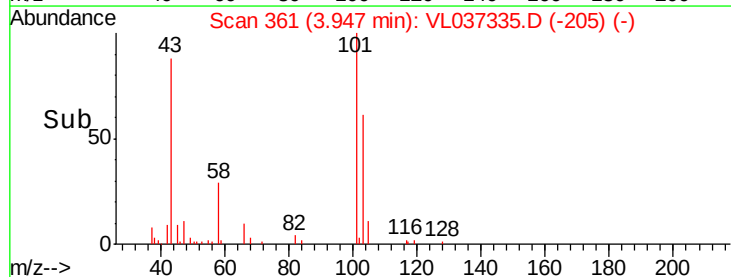
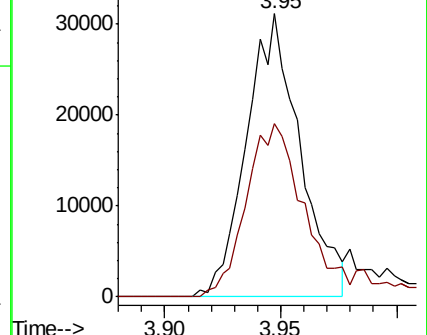
101 100

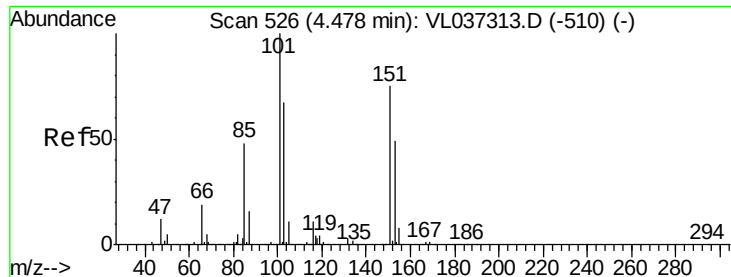
103 61.2 51.6 77.4



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: 0.048 ppbv

RT: 4.48 min Scan# 527

Delta R.T. 0.00 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

Instrument :

MSVOA_L

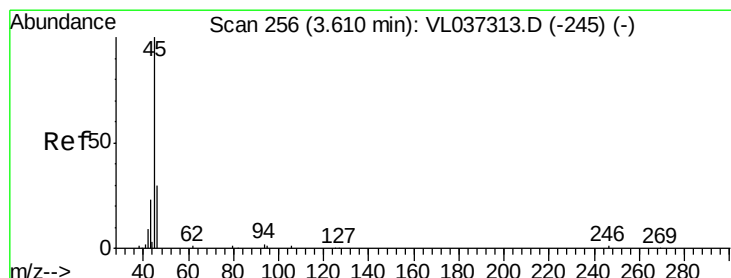
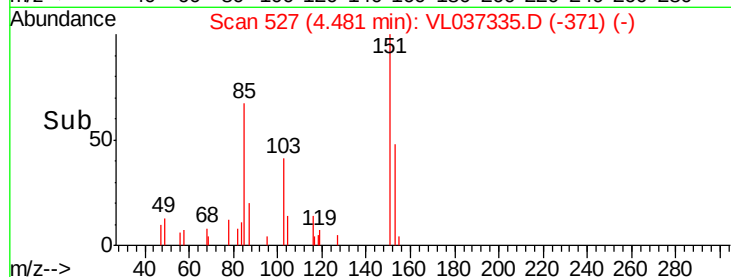
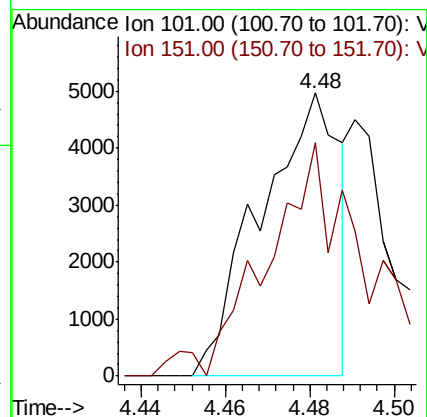
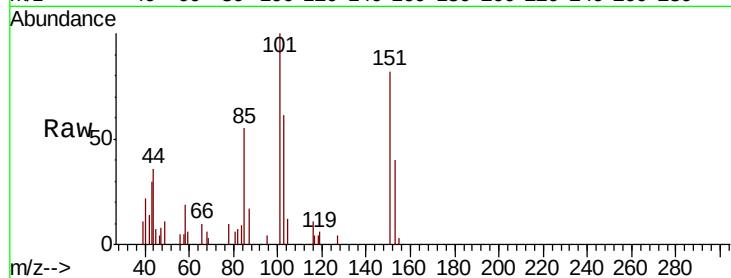
ClientSampleId :

Tot Ion:101 Resp: 6482

Ion Ratio Lower Upper

101 100

151 106.6 60.6 91.0#



#13

Ethanol

Concen: 7.326 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.00 min

Lab File: VL037335.D

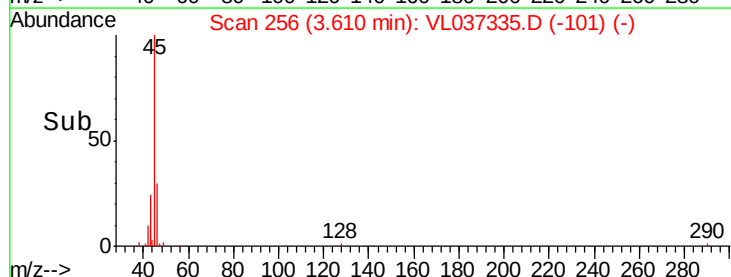
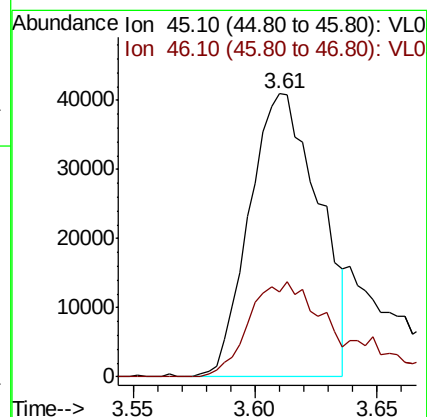
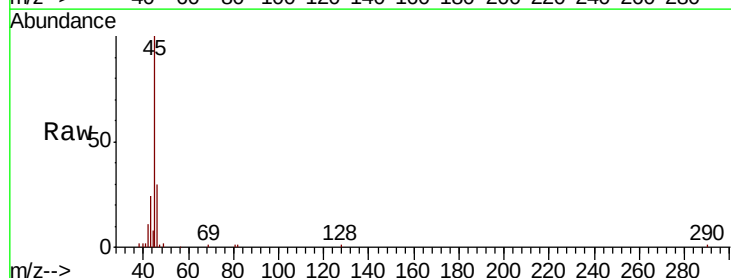
Acq: 5 Aug 2021 9:17

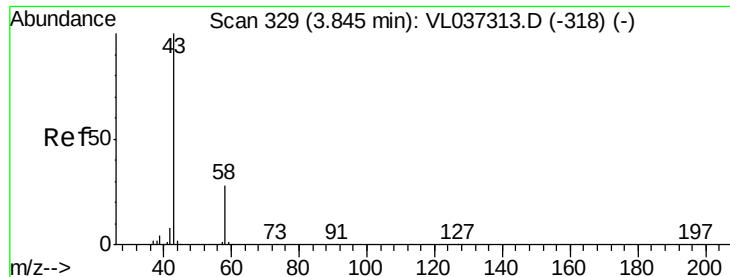
Tgt Ion: 45 Resp: 81043

Ion Ratio Lower Upper

45 100

46 47.6 16.6 66.4





#15

Acetone

Concen: 23.363 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

Instrument :

MSVOA_L

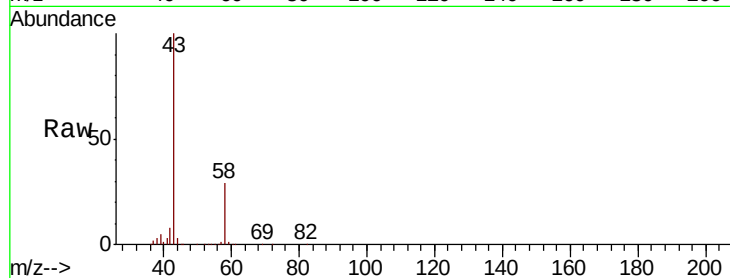
ClientSampleId :

Tot Ion: 43 Resp: 2535343

Ion Ratio Lower Upper

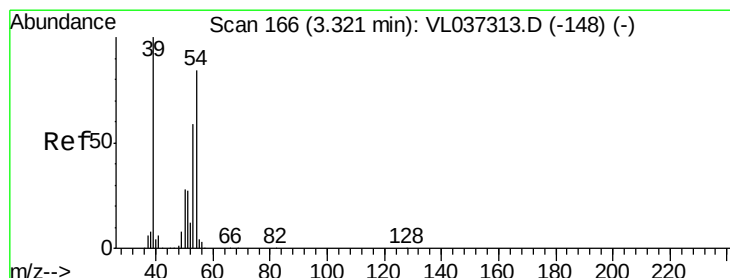
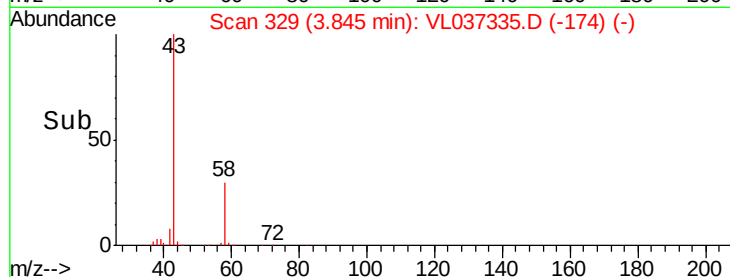
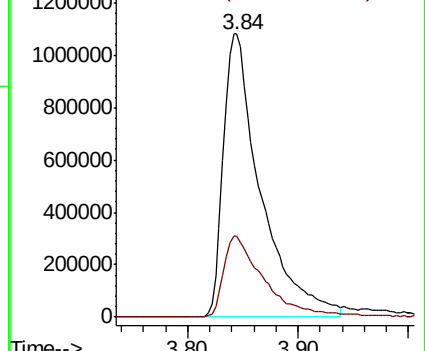
43 100

58 31.8 25.3 37.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.902 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.02 min

Lab File: VL037335.D

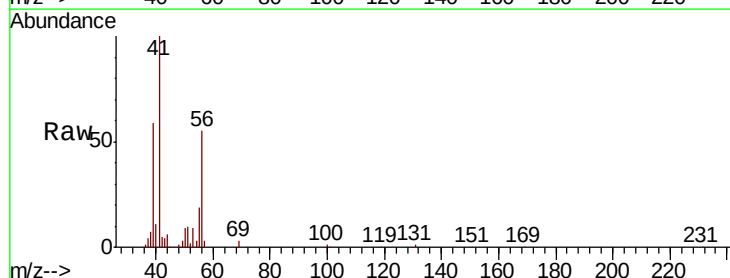
Acq: 5 Aug 2021 9:17

Tgt Ion: 39 Resp: 63060

Ion Ratio Lower Upper

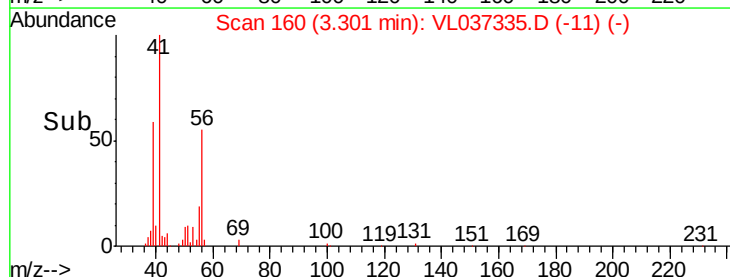
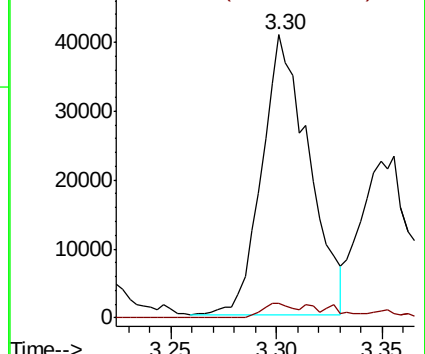
39 100

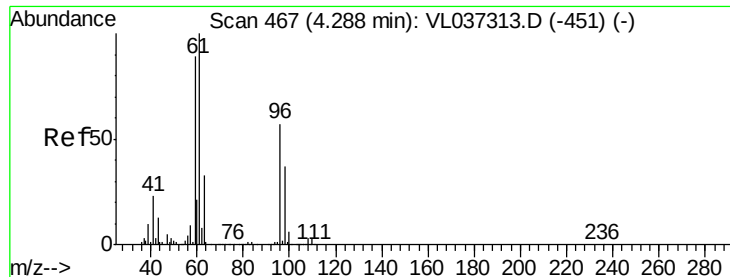
54 6.8 66.1 99.1#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.655 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.01 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

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MSVOA_L

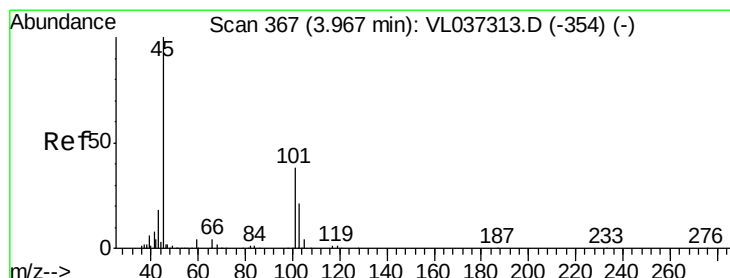
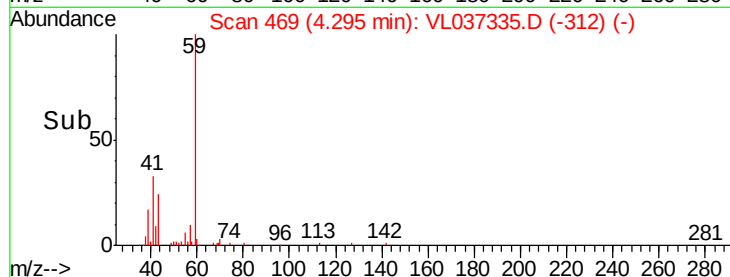
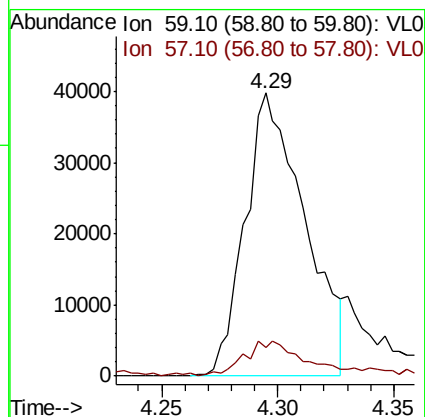
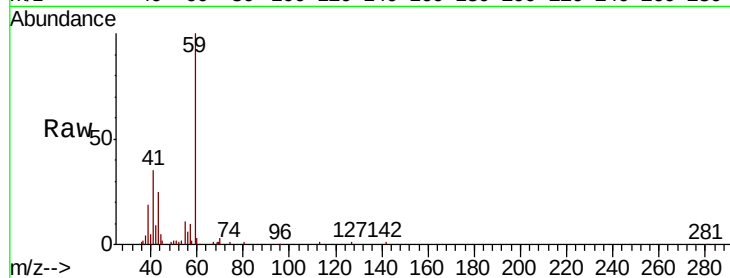
ClientSampleId :

Tot Ion: 59 Resp: 71387

Ion Ratio Lower Upper

59 100

57 15.5 8.6 12.8#



#19

Isopropyl Alcohol

Concen: 0.996 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL037335.D

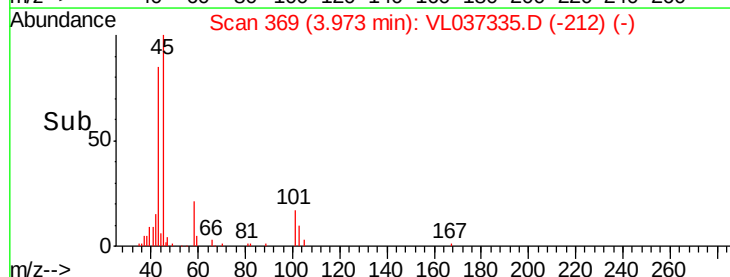
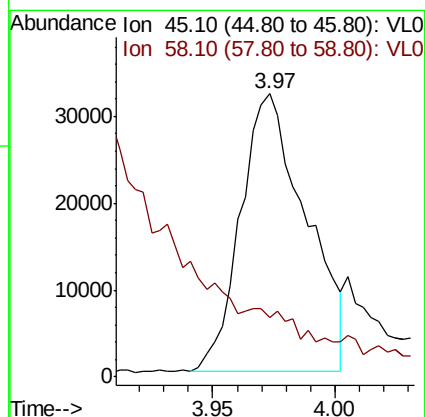
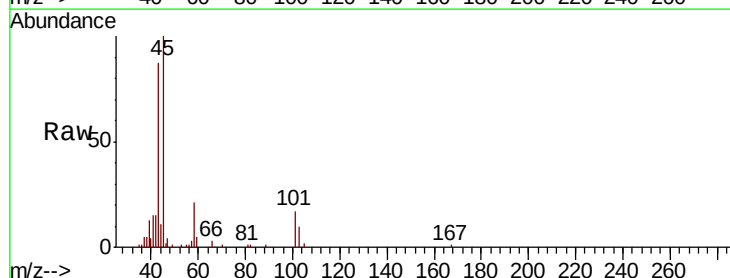
Acq: 5 Aug 2021 9:17

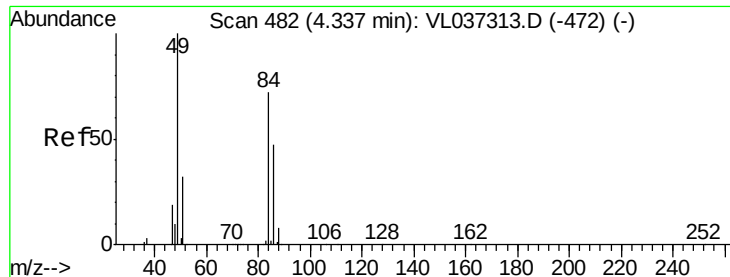
Tgt Ion: 45 Resp: 59792

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#

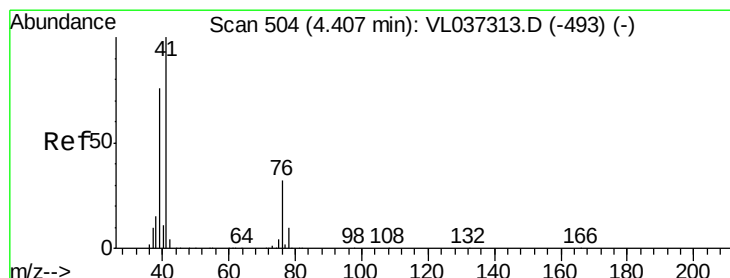
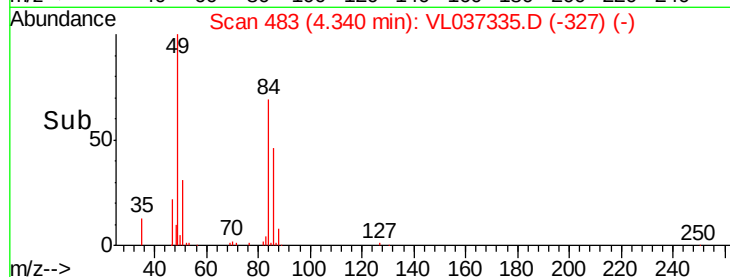
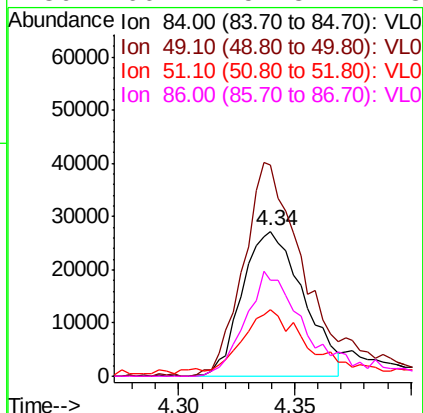
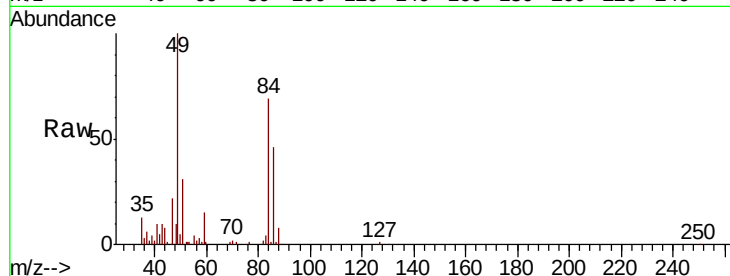




#20
Methylene Chloride
Concen: 0.558 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.00 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

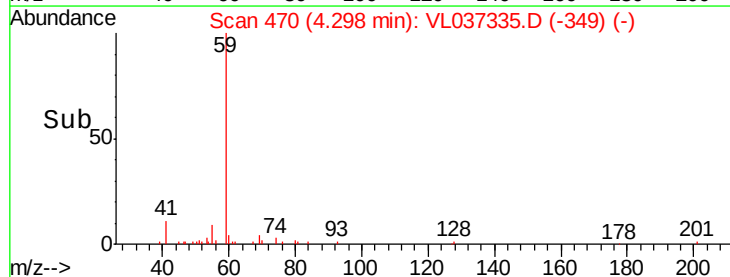
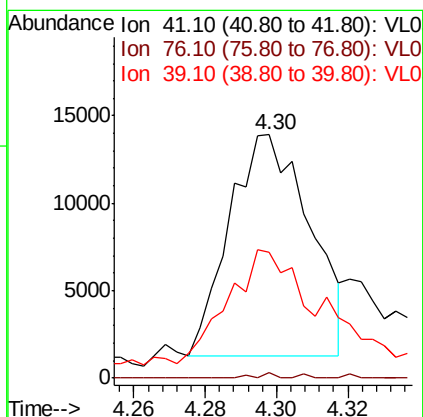
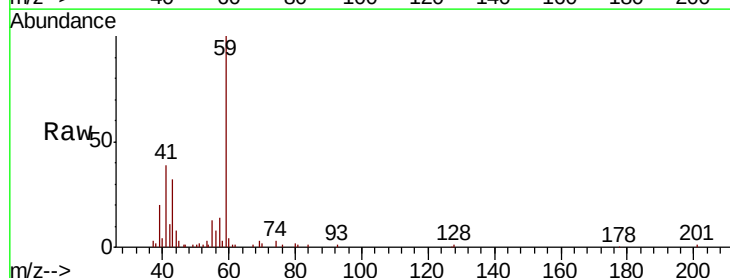
Instrument :
MSVOA_L
ClientSampleId :

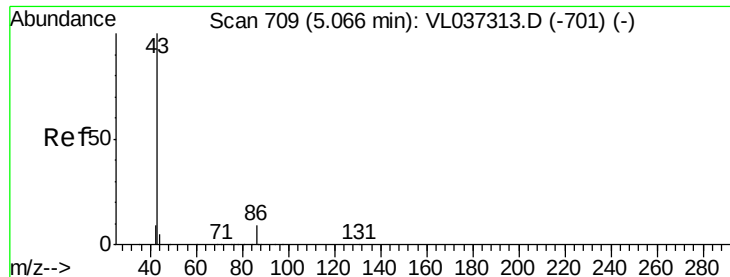
Tot Ion: 84 Resp: 50131
Ion Ratio Lower Upper
84 100
49 144.0 110.4 165.6
51 41.3 35.8 53.6
86 66.2 51.8 77.8



#21
Allyl Chloride
Concen: 0.225 ppbv
RT: 4.30 min Scan# 470
Delta R.T. -0.11 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

Tgt Ion: 41 Resp: 19774
Ion Ratio Lower Upper
41 100
76 0.0 25.7 38.5#
39 61.5 59.0 88.4

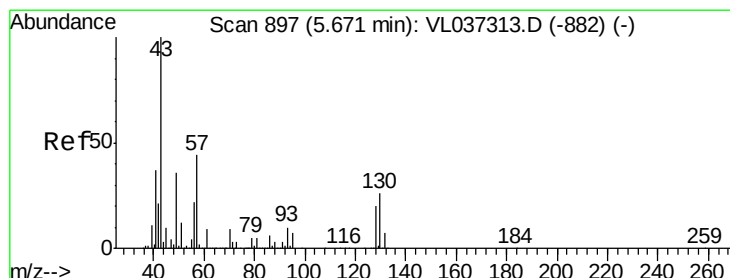
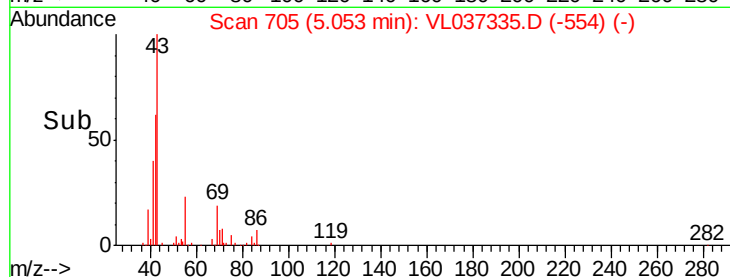
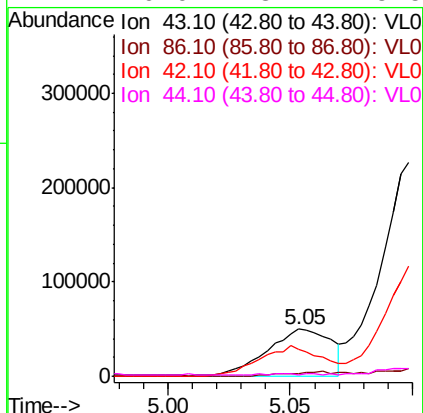
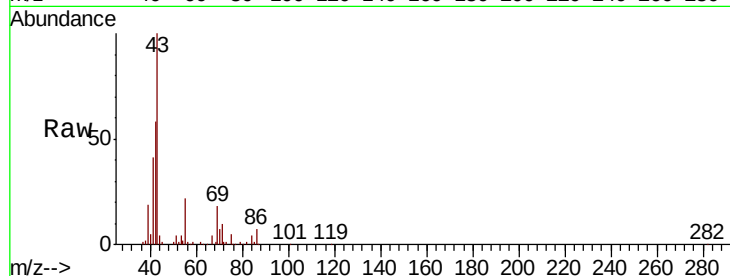




#23
Vinyl Acetate
Concen: 0.545 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.01 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

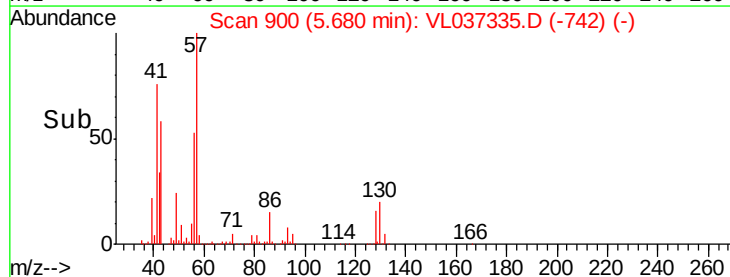
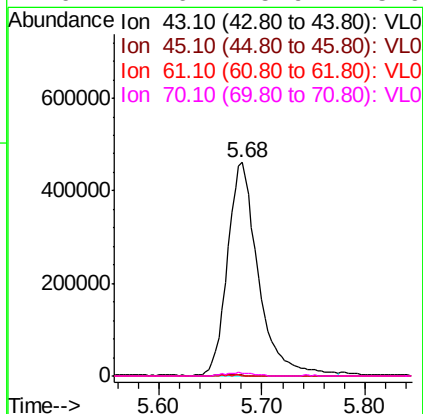
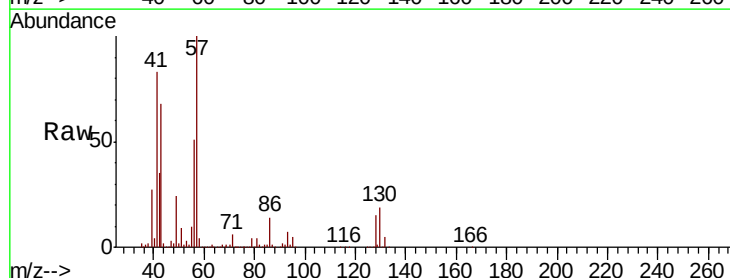
Instrument :
MSVOA_L
ClientSampleId :

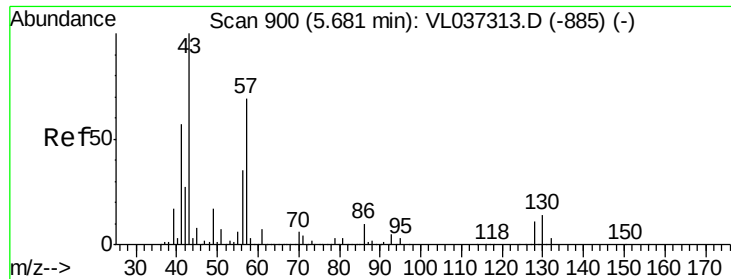
Tot Ion:	43	Resp:	89233
Ion	Ratio	Lower	Upper
43	100		
86	6.6	6.2	9.2
42	57.7	7.7	11.5#
44	0.0	3.7	5.5#



#25
Ethyl Acetate
Concen: 3.394 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

Tgt Ion:	43	Resp:	957829
Ion	Ratio	Lower	Upper
43	100		
45	0.6	7.8	11.8#
61	0.4	8.6	12.8#
70	1.6	5.9	8.9#

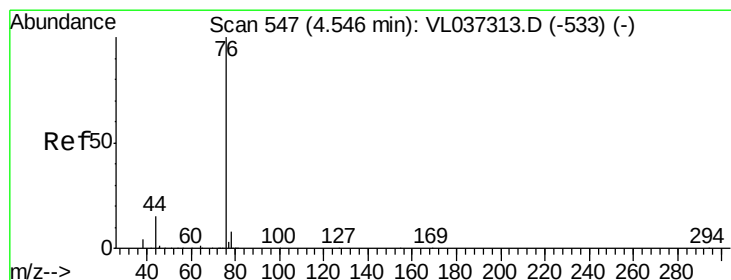
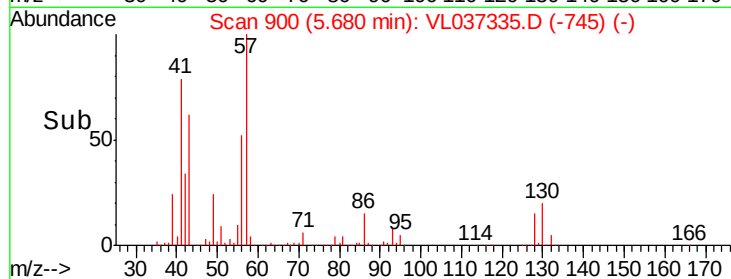
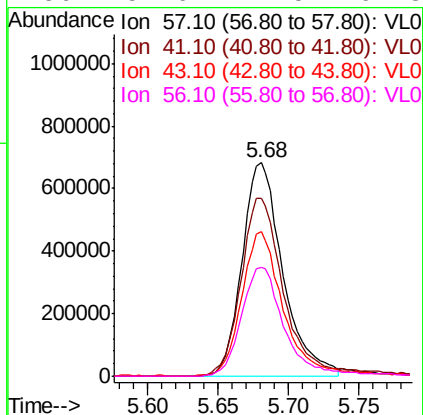
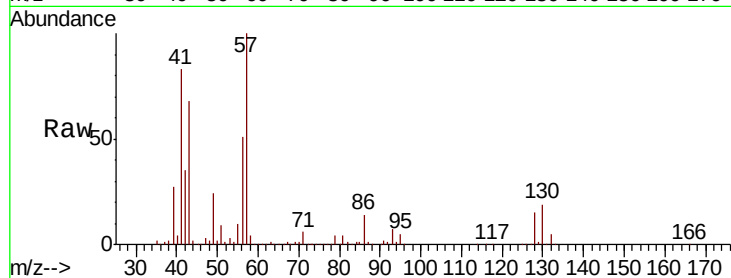




#26
Hexane
Concen: 8.761 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

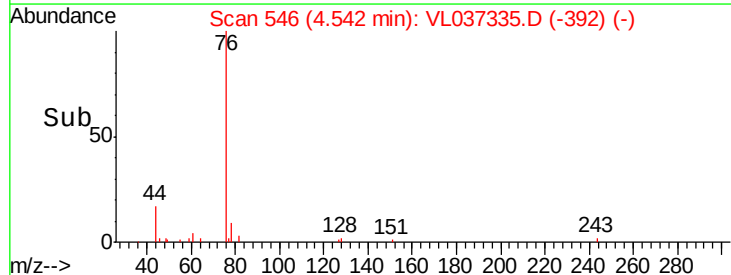
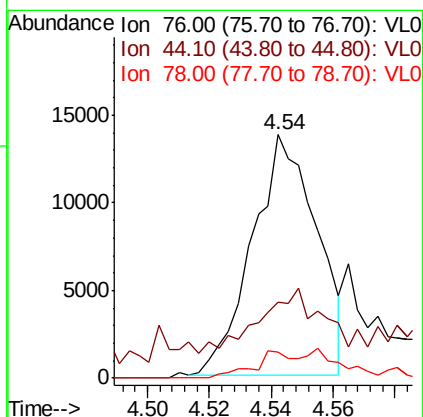
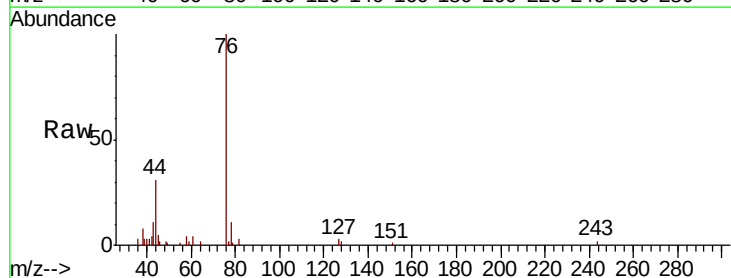
Instrument :
MSVOA_L
ClientSampleId :

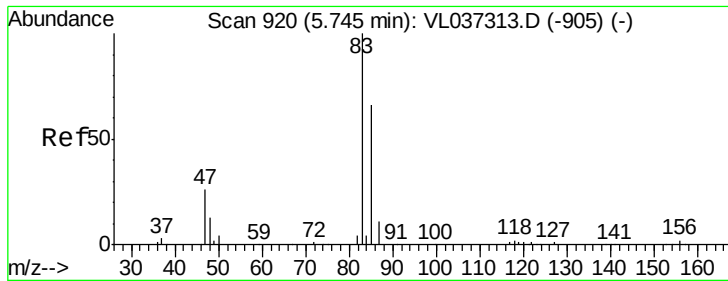
Tot Ion: 57 Resp: 1383335
Ion Ratio Lower Upper
57 100
41 90.3 67.5 101.3
43 70.2 163.0 244.4#
56 54.6 41.5 62.3



#27
Carbon Disulfide
Concen: 0.154 ppbv
RT: 4.54 min Scan# 546
Delta R.T. -0.00 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

Tgt Ion: 76 Resp: 19817
Ion Ratio Lower Upper
76 100
44 52.9 13.1 19.7#
78 0.0 8.0 12.0#

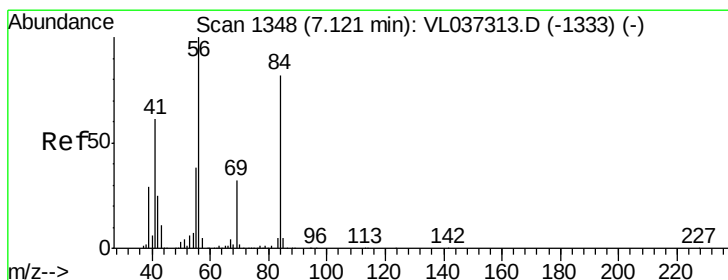
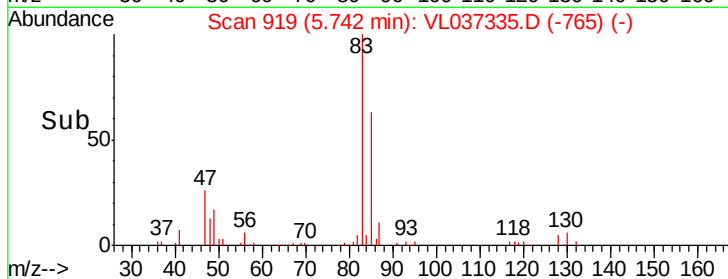
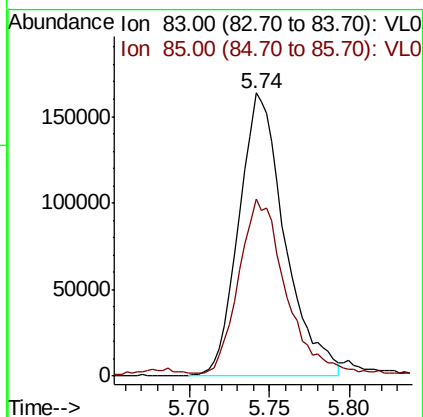
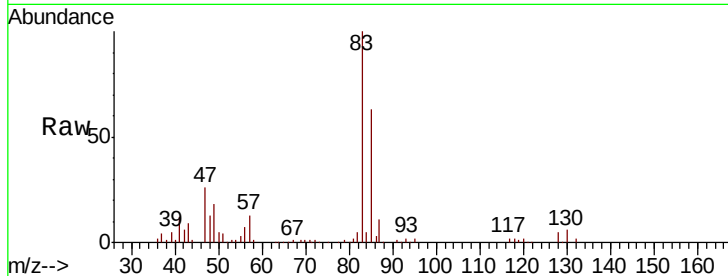




#29
Chloroform
Concen: 1.604 ppbv
RT: 5.74 min Scan# 919
Delta R.T. -0.00 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

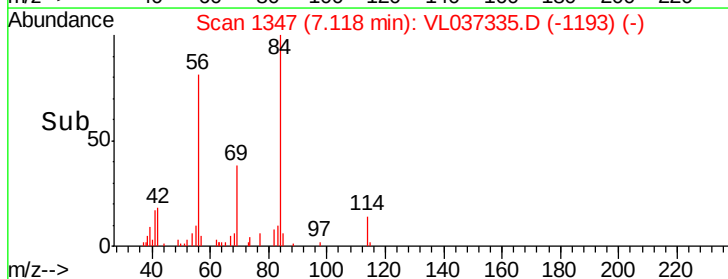
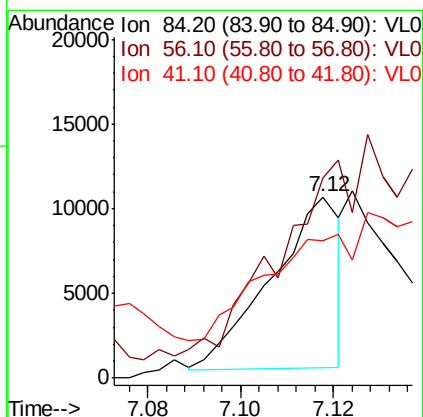
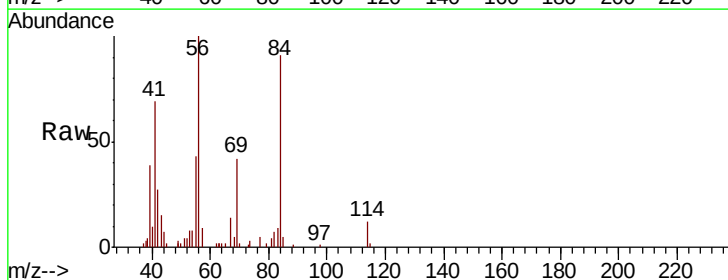
Instrument :
MSVOA_L
ClientSampleId :

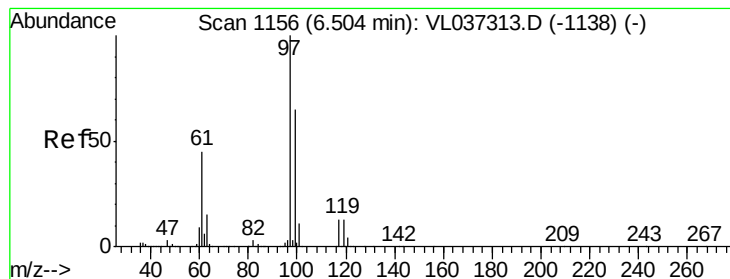
Tot Ion: 83 Resp: 320800
Ion Ratio Lower Upper
83 100
85 61.8 52.6 79.0



#30
Cyclohexane
Concen: 0.085 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. -0.00 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

Tgt Ion: 84 Resp: 10386
Ion Ratio Lower Upper
84 100
56 0.0 105.2 157.8#
41 0.0 61.3 91.9#





#32

1,1,1-Trichloroethane

Concen: 0.466 ppbv

RT: 6.50 min Scan# 1155

Delta R.T. -0.00 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

Instrument :

MSVOA_L

ClientSampleId :

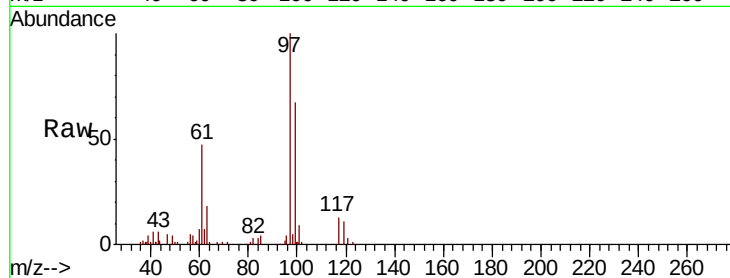
Tot Ion: 97 Resp: 88852

Ion Ratio Lower Upper

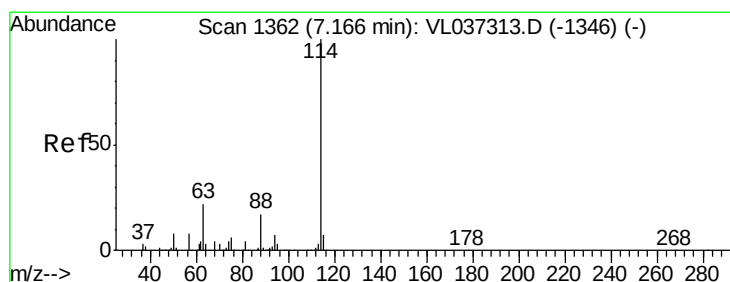
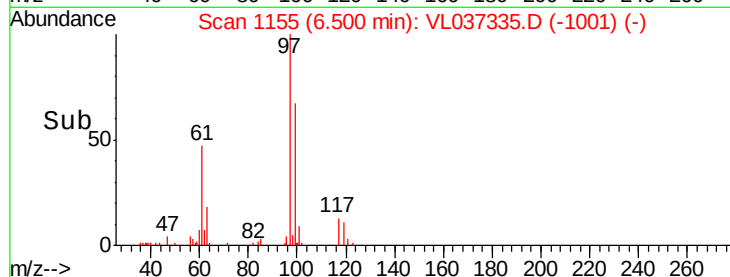
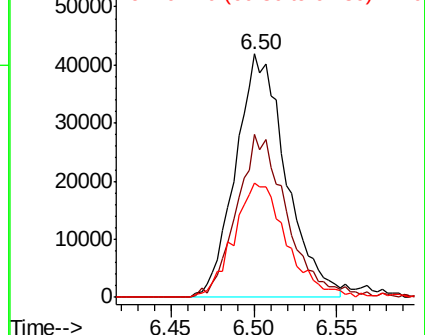
97 100

99 67.0 52.3 78.5

61 49.1 37.2 55.8



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

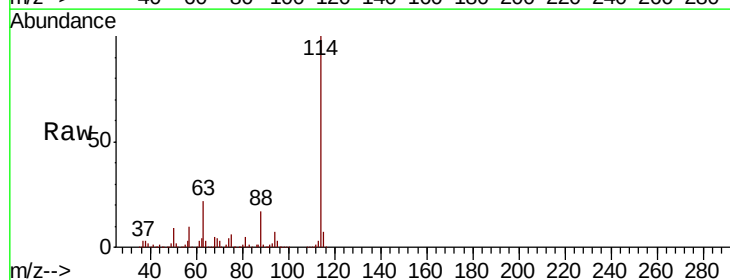
Tgt Ion: 114 Resp: 3358742

Ion Ratio Lower Upper

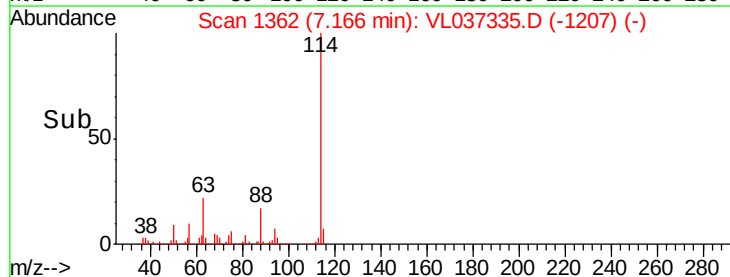
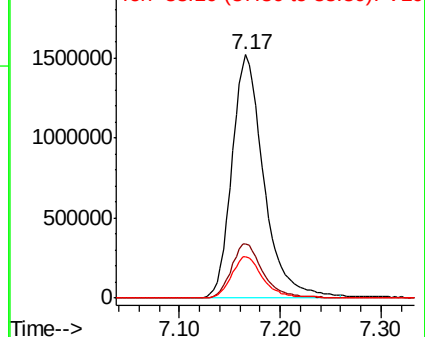
114 100

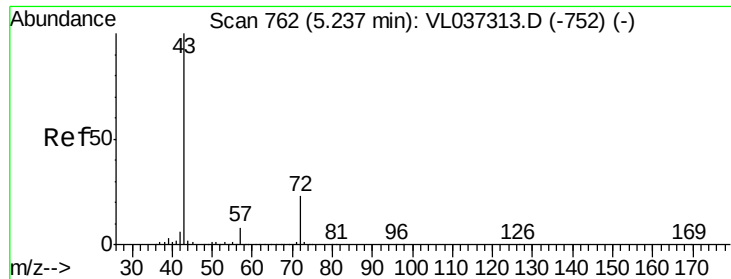
63 22.5 18.1 27.1

88 17.2 13.8 20.8



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

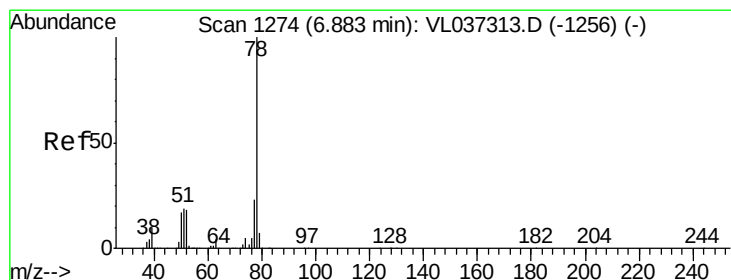
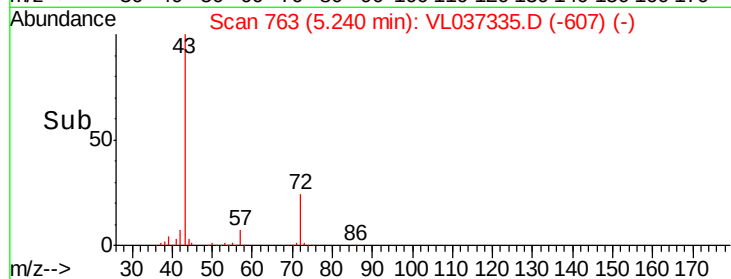
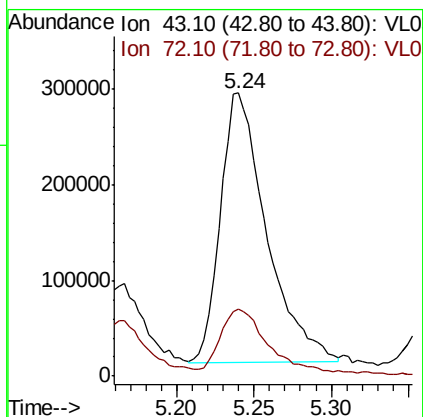
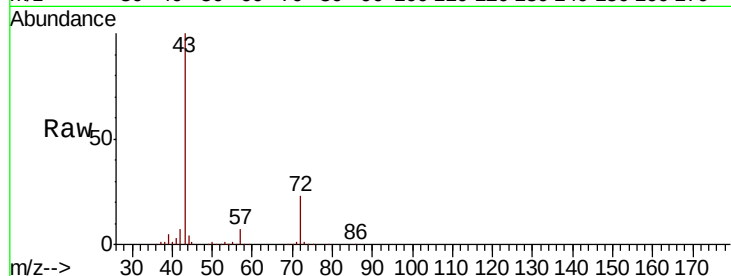




#34
 2-Butanone
 Concen: 5.000 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.00 min
 Lab File: VL037335.D
 Acq: 5 Aug 2021 9:17

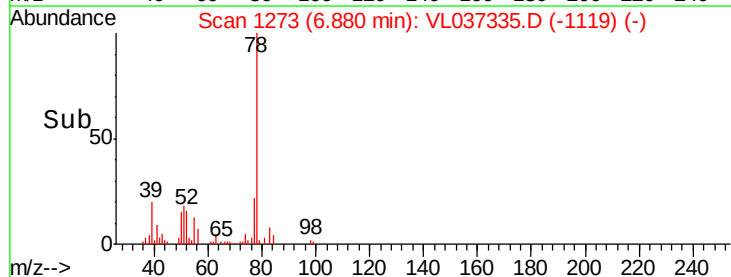
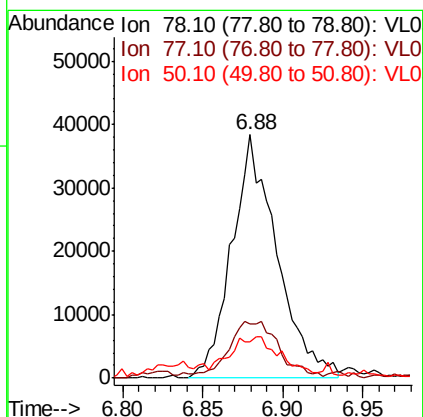
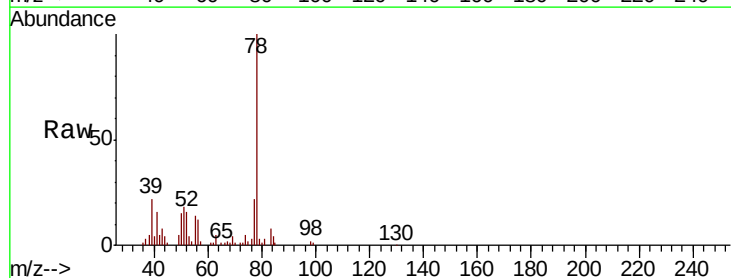
Instrument :
 MSVOA_L
 ClientSampleId :

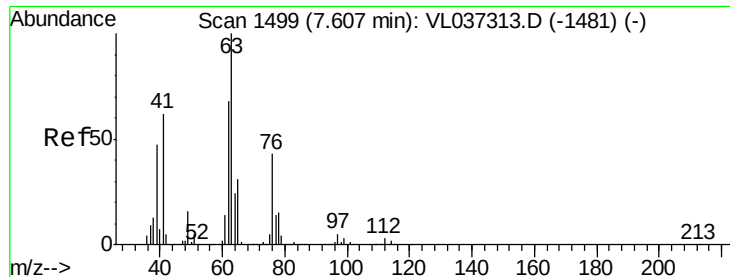
Tot Ion: 43 Resp: 582786
 Ion Ratio Lower Upper
 43 100
 72 28.2 20.3 30.5



#36
 Benzene
 Concen: 0.245 ppbv
 RT: 6.88 min Scan# 1273
 Delta R.T. -0.00 min
 Lab File: VL037335.D
 Acq: 5 Aug 2021 9:17

Tgt Ion: 78 Resp: 74081
 Ion Ratio Lower Upper
 78 100
 77 20.4 18.7 28.1
 50 13.6 13.7 20.5#

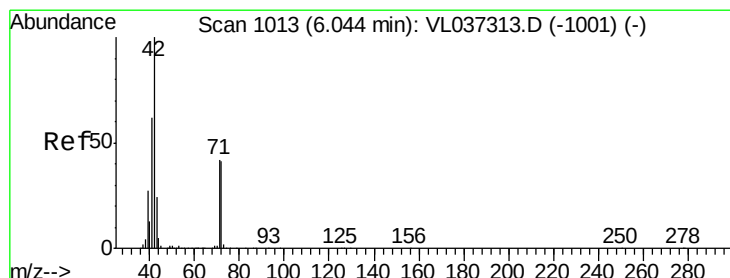
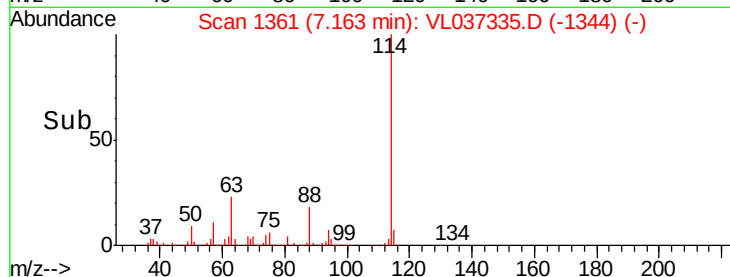
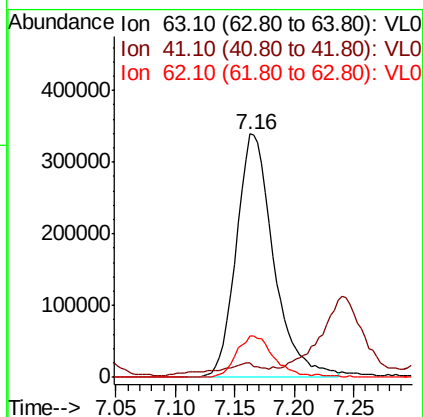
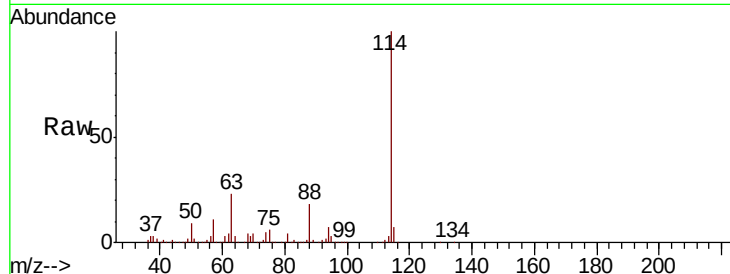




#39
 1,2-Dichloropropane
 Concen: 6.561 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.44 min
 Lab File: VL037335.D
 Acq: 5 Aug 2021 9:17

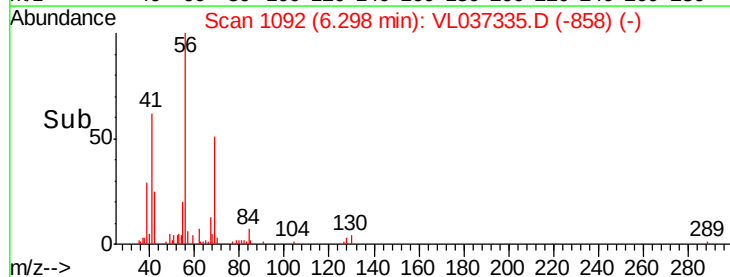
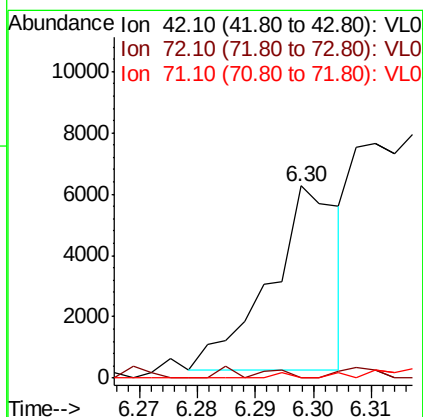
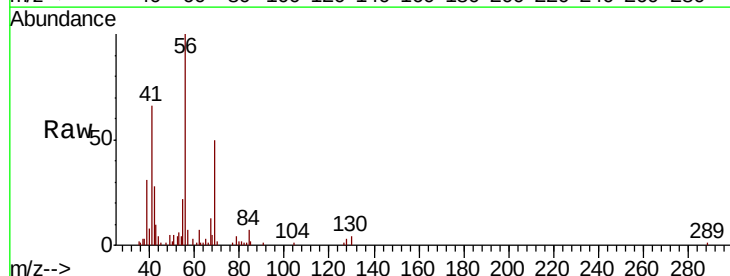
Instrument :
 MSVOA_L
 ClientSampled :

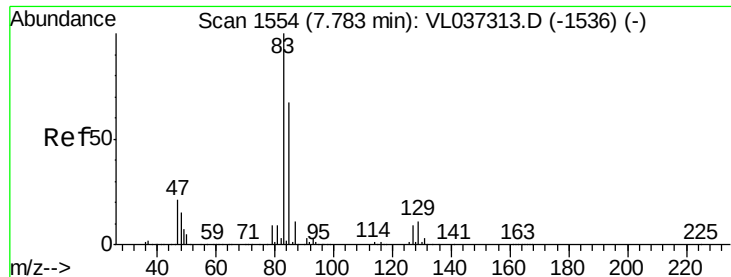
Tot Ion	63	Resp	738516
Ion Ratio	Lower	Upper	
63	100		
41	3.9	49.2	73.8#
62	17.1	54.2	81.4#



#41
 Tetrahydrofuran
 Concen: 0.077 ppbv
 RT: 6.30 min Scan# 1092
 Delta R.T. 0.25 min
 Lab File: VL037335.D
 Acq: 5 Aug 2021 9:17

Tgt Ion	42	Resp	4962
Ion Ratio	Lower	Upper	
42	100		
72	3.7	33.6	50.4#
71	0.0	33.0	49.4#





#42

Bromodichloromethane

Concen: 0.041 ppbv

RT: 7.79 min Scan# 1555

Delta R.T. 0.00 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

Instrument :

MSVOA_L

ClientSampled :

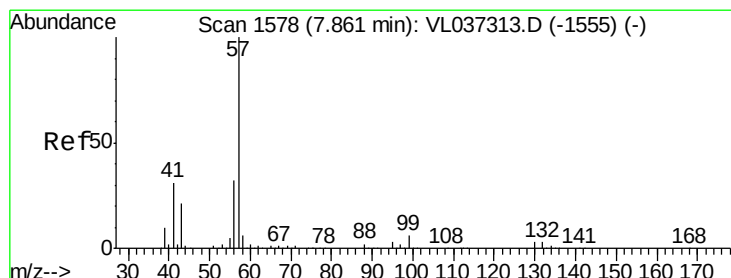
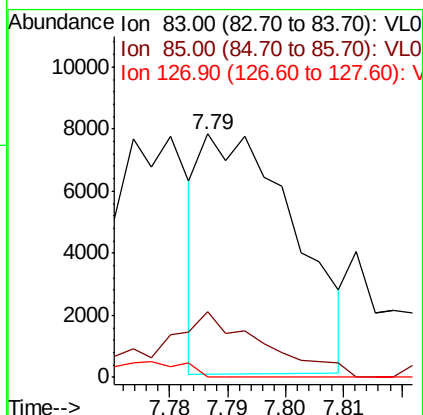
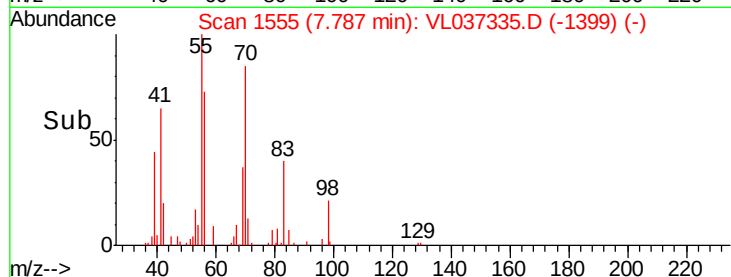
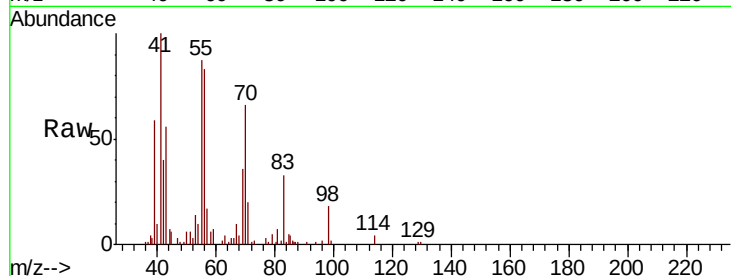
Tot Ion: 83 Resp: 8651

Ion Ratio Lower Upper

83 100

85 32.7 53.5 80.3#

127 0.0 7.1 10.7#



#44

2,2,4-Trimethylpentane

Concen: 0.219 ppbv

RT: 7.86 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

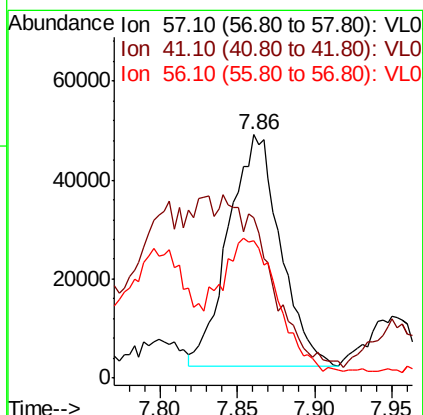
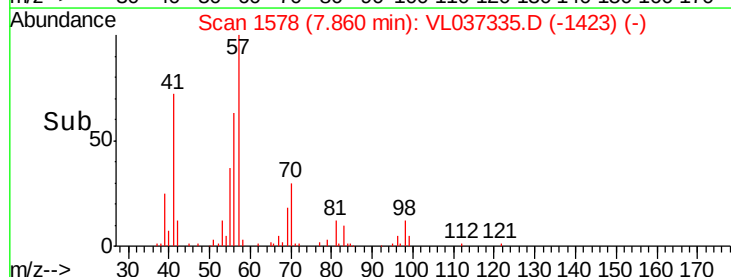
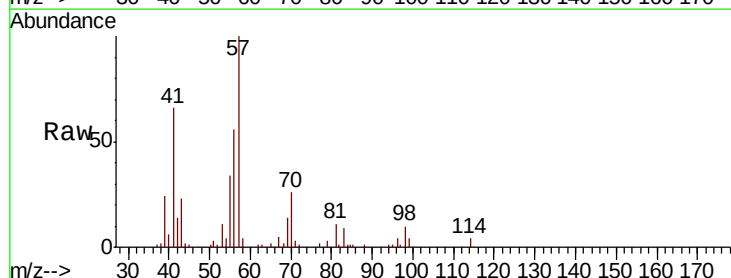
Tgt Ion: 57 Resp: 109319

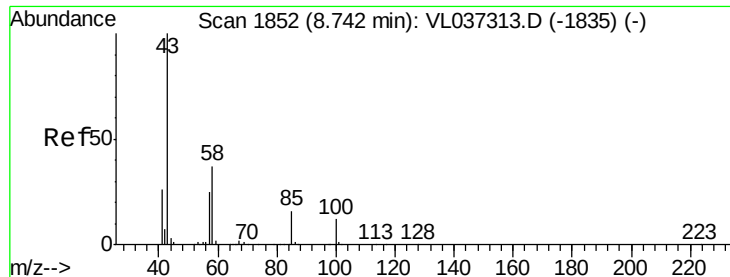
Ion Ratio Lower Upper

57 100

41 165.2 24.3 36.5#

56 69.7 25.0 37.6#

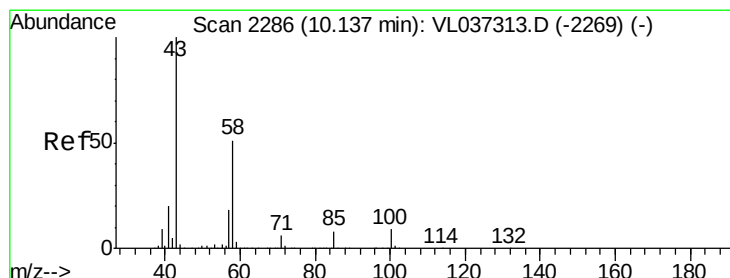
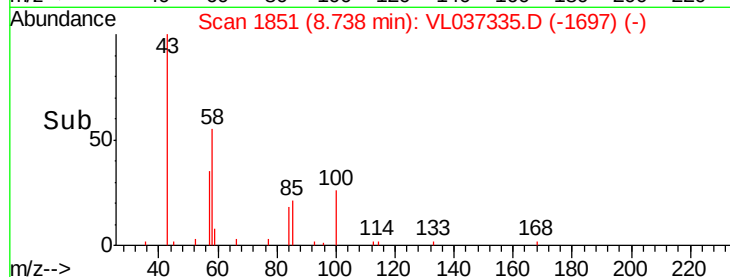
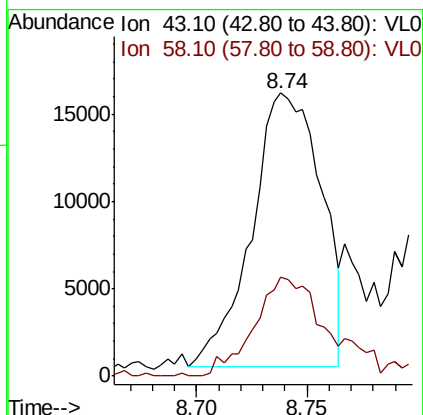
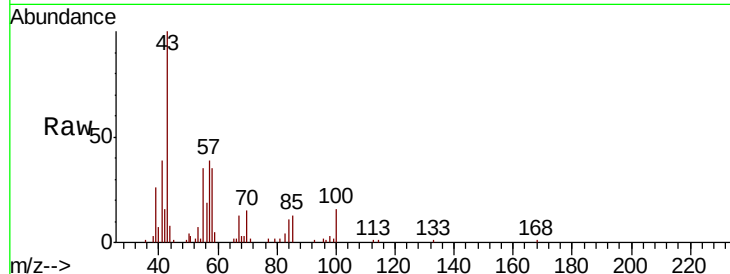




#50
 4-Methyl-2-Pentanone
 Concen: 0.192 ppbv
 RT: 8.74 min Scan# 1851
 Delta R.T. -0.00 min
 Lab File: VL037335.D
 Acq: 5 Aug 2021 9:17

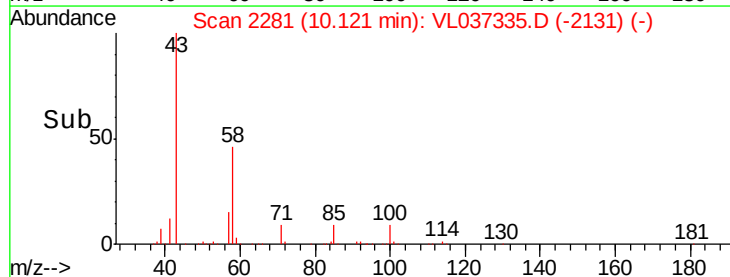
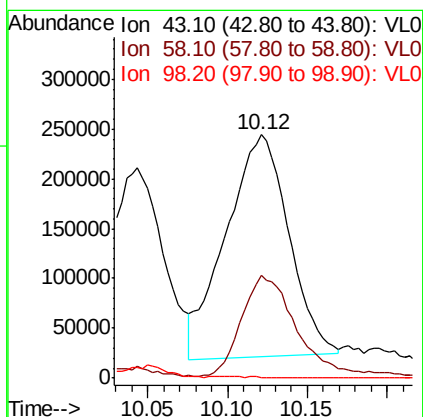
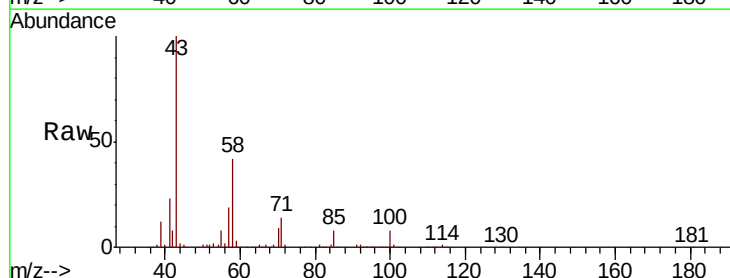
Instrument :
 MSVOA_L
 ClientSampleId :

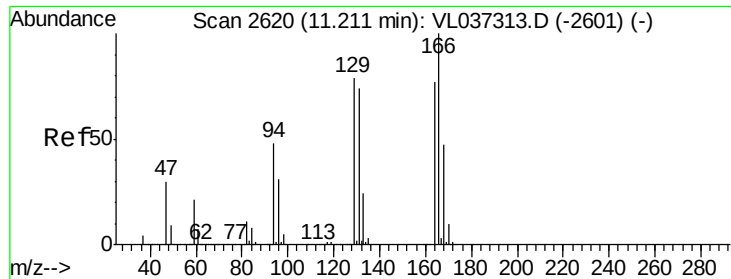
Tot Ion: 43 Resp: 34316
 Ion Ratio Lower Upper
 43 100
 58 39.6 31.0 46.4



#51
 2-Hexanone
 Concen: 7.438 ppbv
 RT: 10.12 min Scan# 2281
 Delta R.T. -0.02 min
 Lab File: VL037335.D
 Acq: 5 Aug 2021 9:17

Tgt Ion: 43 Resp: 603537
 Ion Ratio Lower Upper
 43 100
 58 41.0 40.9 61.3
 98 0.0 0.1 0.1#





#52

Tetrachloroethene

Concen: 0.339 ppbv

RT: 11.21 min Scan# 2620

Delta R.T. -0.00 min

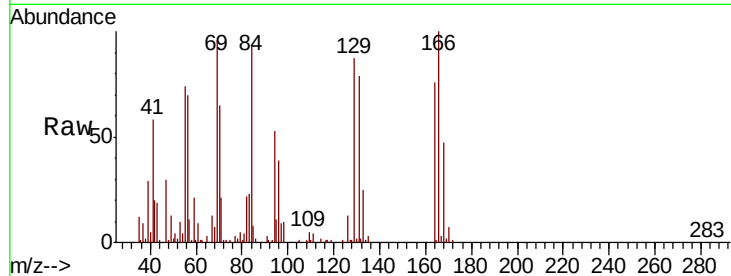
Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

Instrument :

MSVOA_L

ClientSampleId :



Tot Ion:164 Resp: 44140

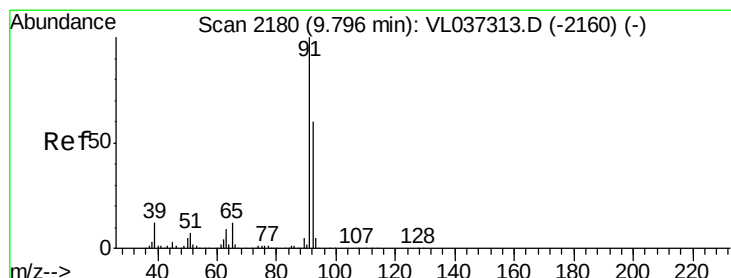
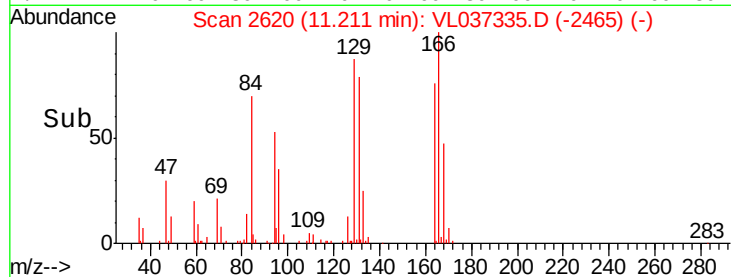
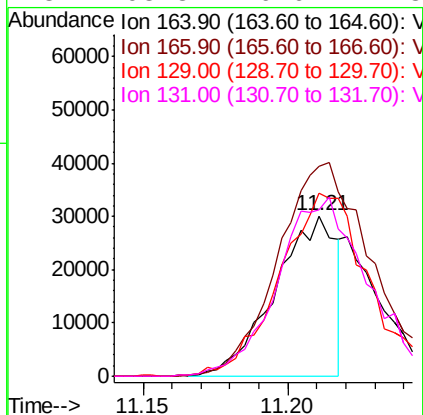
Ion Ratio Lower Upper

164 100

166 130.4 103.4 155.2

129 113.6 82.2 123.2

131 103.3 76.6 114.8



#53

Toluene

Concen: 6.797 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL037335.D

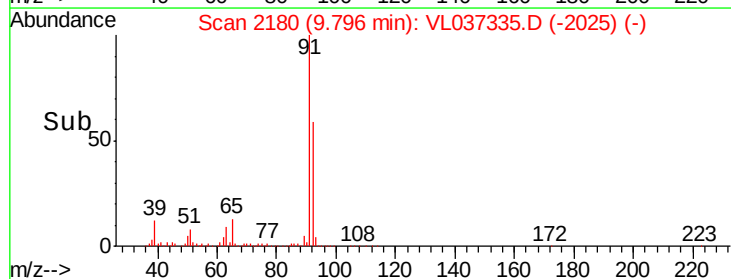
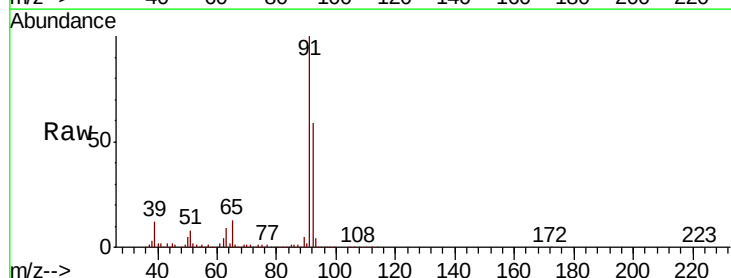
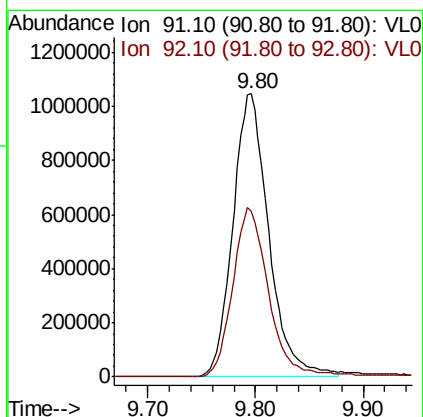
Acq: 5 Aug 2021 9:17

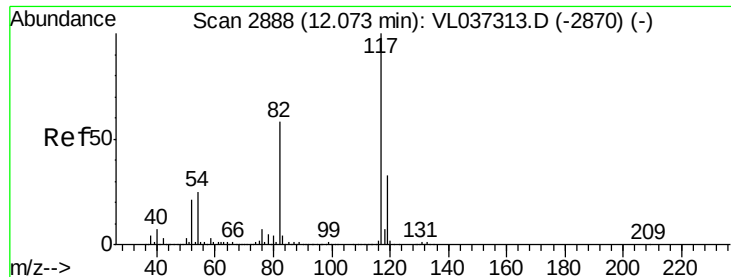
Tgt Ion: 91 Resp: 2425322

Ion Ratio Lower Upper

91 100

92 60.8 48.8 73.2

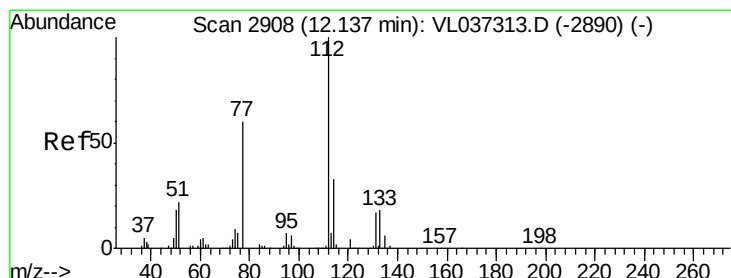
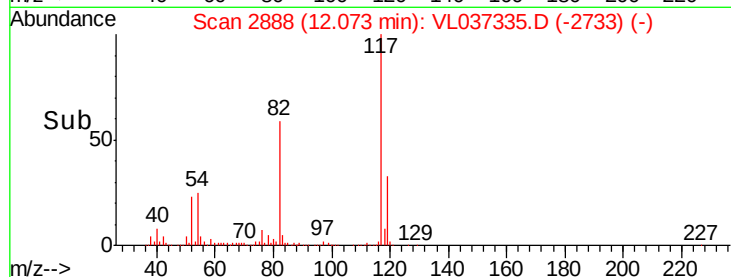
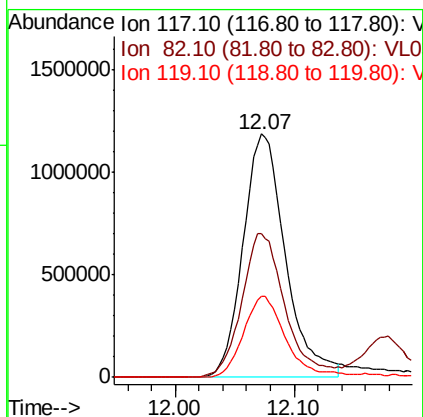
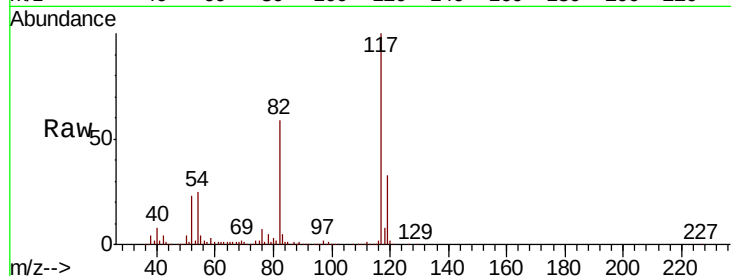




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. -0.00 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

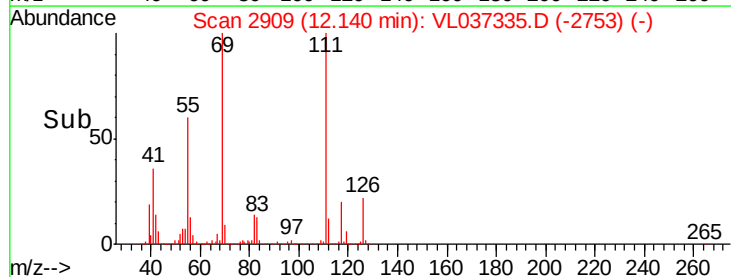
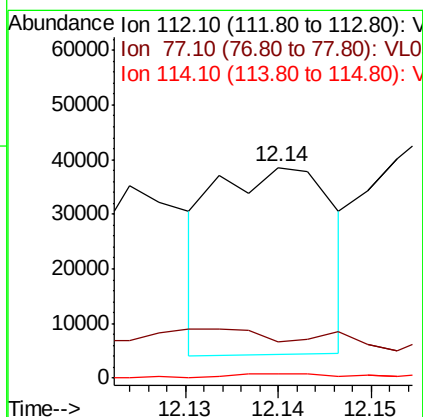
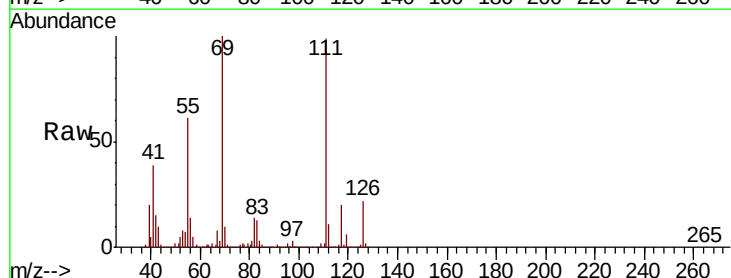
Instrument :
MSVOA_L
ClientSampleId :

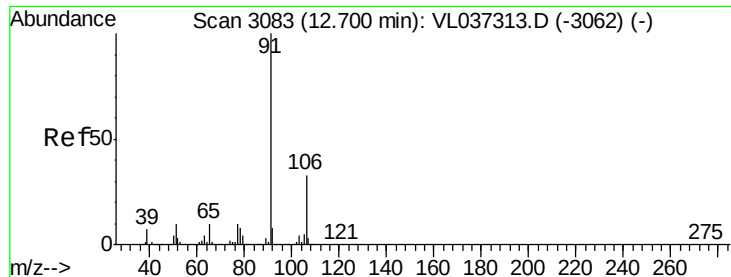
Tot Ion:117 Resp: 2919543
Ion Ratio Lower Upper
117 100
82 61.0 50.3 75.5
119 36.2 48.2 72.2#



#57
Chlorobenzene
Concen: 0.122 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

Tgt Ion:112 Resp: 30184
Ion Ratio Lower Upper
112 100
77 0.0 47.8 71.6#
114 8.3 29.8 36.4#





#58

Ethyl Benzene

Concen: 0.595 ppbv

RT: 12.70 min Scan# 3083

Delta R.T. -0.00 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

Instrument :

MSVOA_L

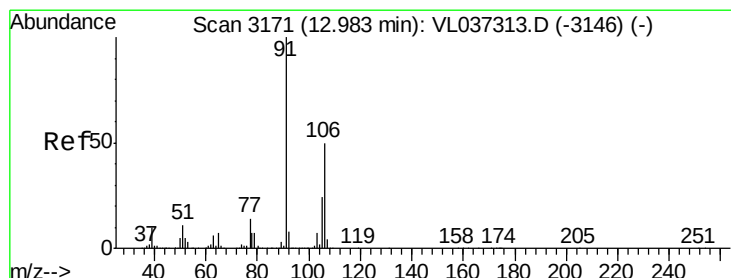
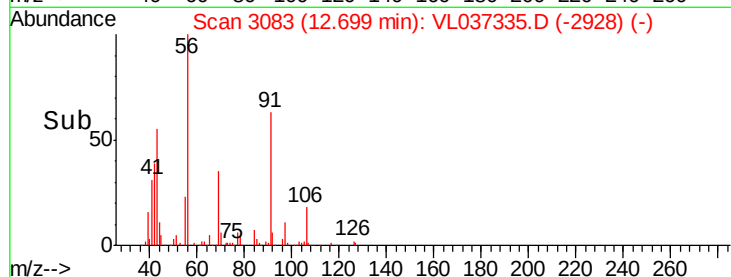
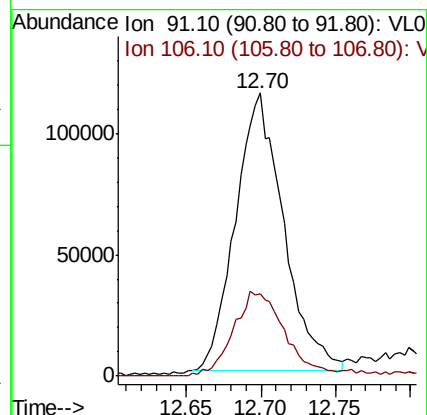
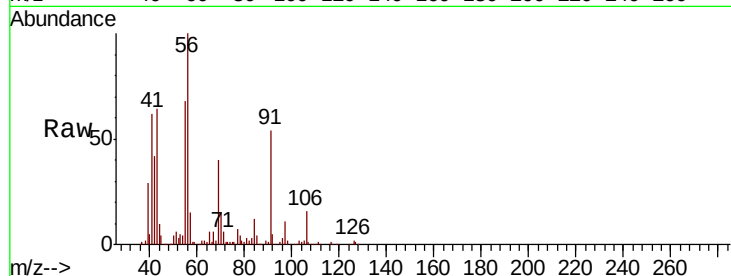
ClientSampleId :

Tot Ion: 91 Resp: 255208

Ion Ratio Lower Upper

91 100

106 28.7 26.2 39.2



#59

m/p-Xylene

Concen: 1.857 ppbv

RT: 12.96 min Scan# 3163

Delta R.T. -0.03 min

Lab File: VL037335.D

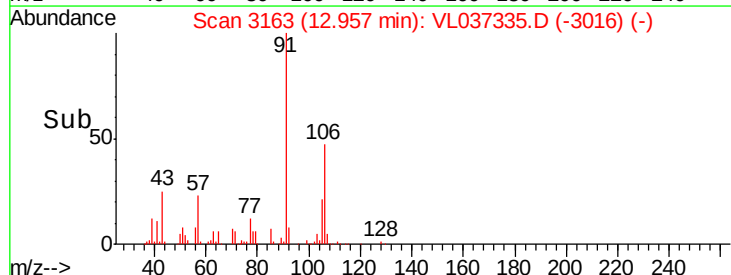
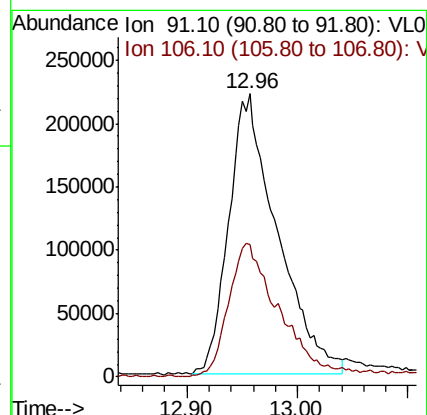
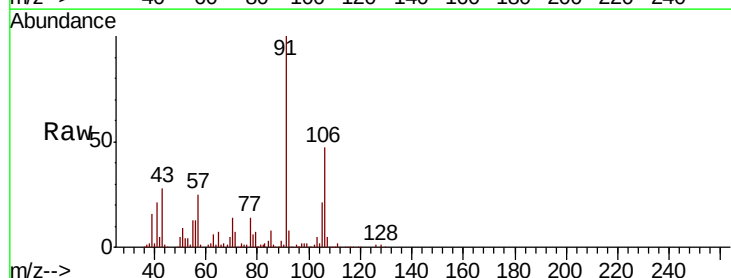
Acq: 5 Aug 2021 9:17

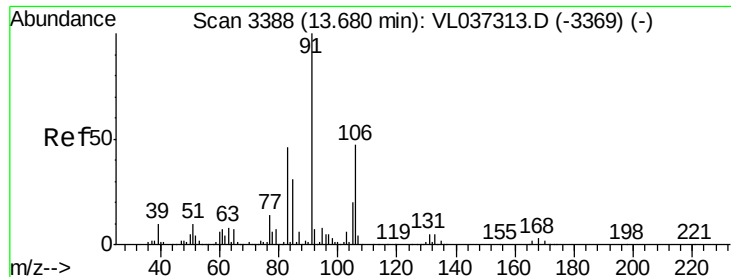
Tgt Ion: 91 Resp: 670899

Ion Ratio Lower Upper

91 100

106 51.8 37.8 56.8

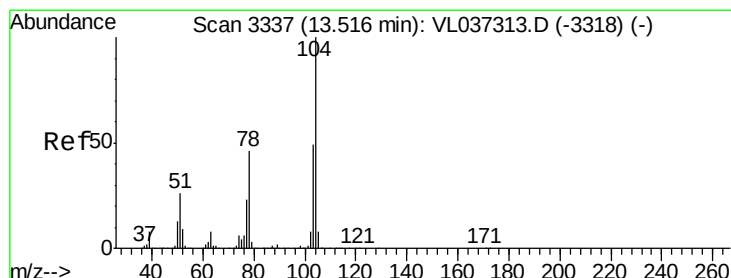
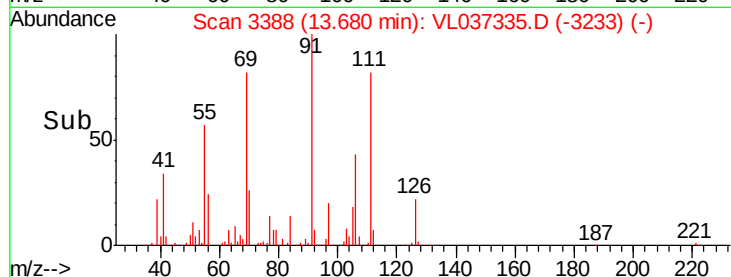
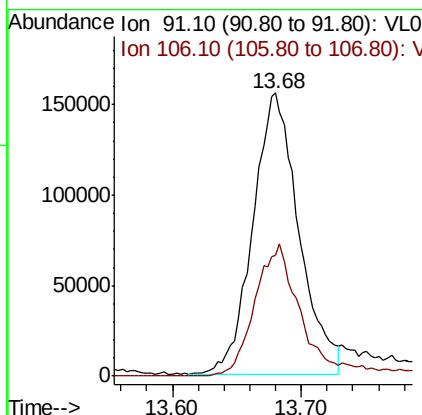
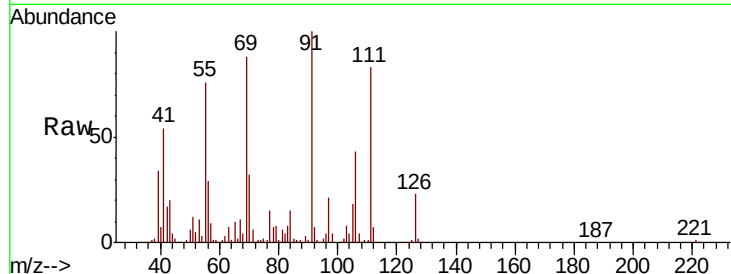




#60
o-Xylene
Concen: 1.180 ppbv
RT: 13.68 min Scan# 3388
Delta R.T. -0.00 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

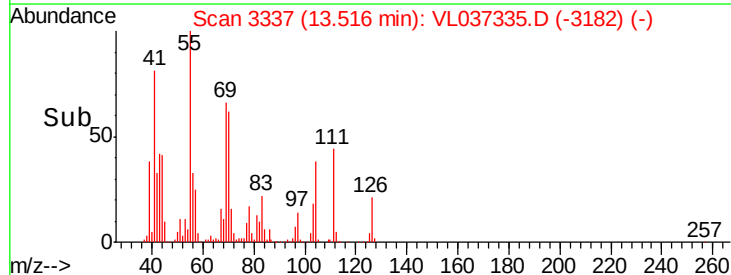
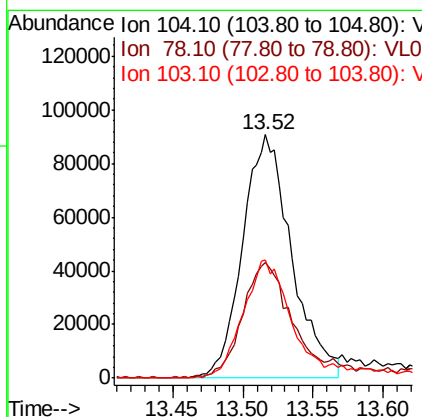
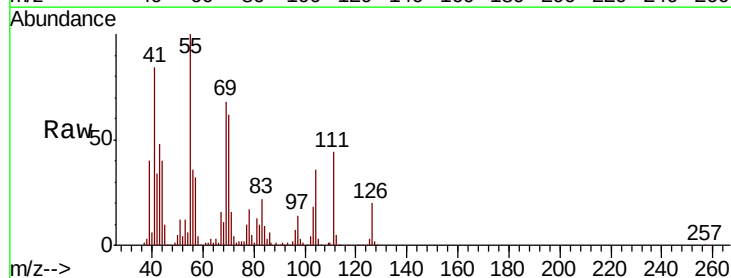
Instrument :
MSVOA_L
ClientSampled :

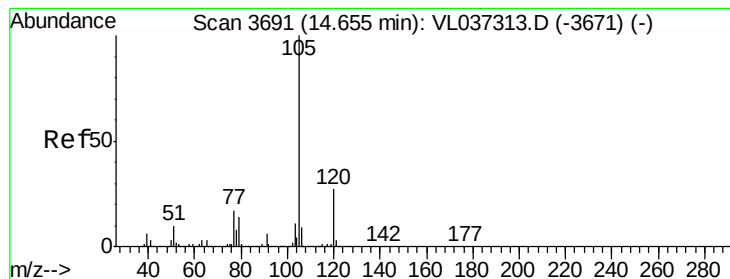
Tot Ion: 91 Resp: 387279
Ion Ratio Lower Upper
91 100
106 50.6 26.3 78.8



#61
Styrene
Concen: 1.222 ppbv
RT: 13.52 min Scan# 3337
Delta R.T. -0.00 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

Tgt Ion: 104 Resp: 219970
Ion Ratio Lower Upper
104 100
78 52.7 39.3 58.9
103 52.1 40.6 60.8





#62

Isopropylbenzene

Concen: 0.125 ppbv

RT: 14.65 min Scan# 3690

Delta R.T. -0.00 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

Instrument :

MSVOA_L

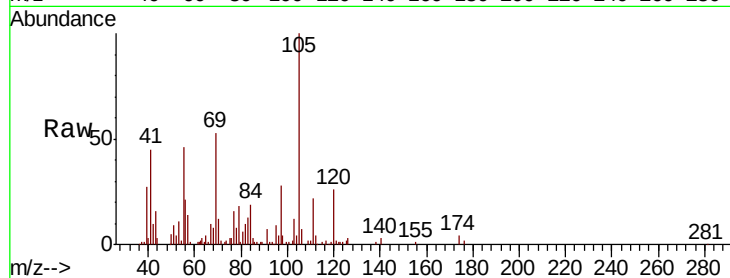
ClientSampleId :

Tot Ion:105 Resp: 59675

Ion Ratio Lower Upper

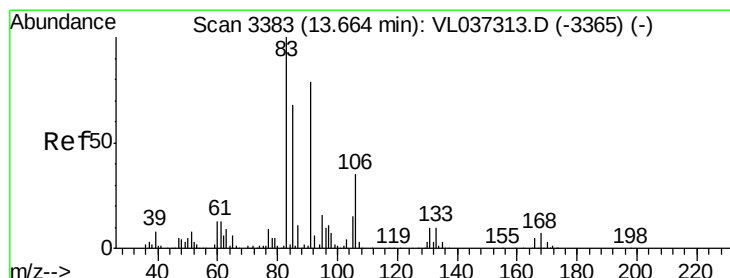
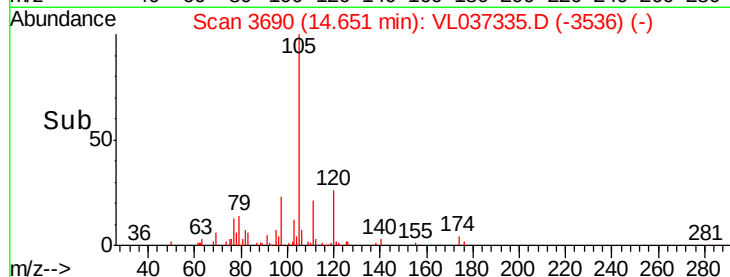
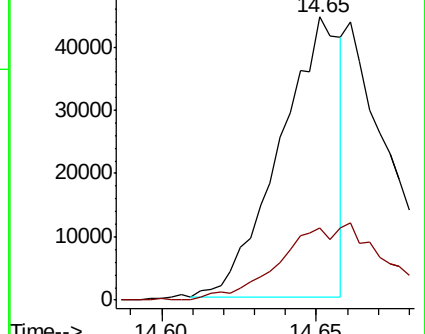
105 100

120 0.0 23.0 34.6#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.432 ppbv

RT: 13.65 min Scan# 3379

Delta R.T. -0.01 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

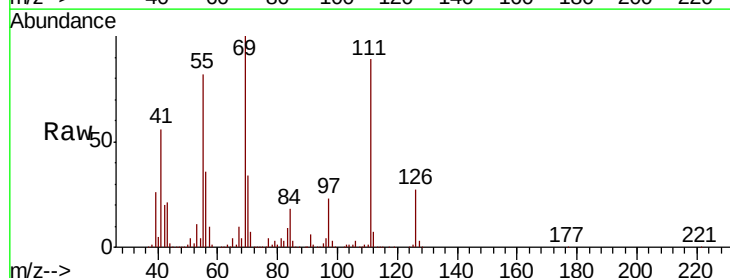
Tgt Ion: 83 Resp: 103040

Ion Ratio Lower Upper

83 100

131 0.2 5.1 15.4#

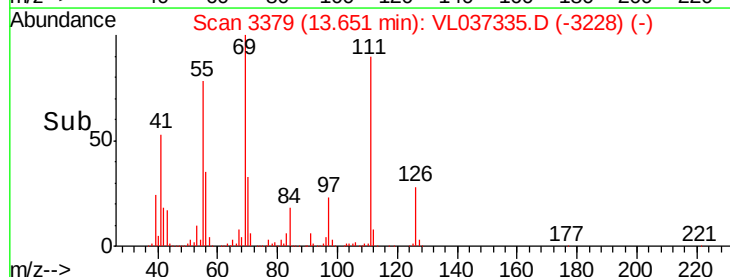
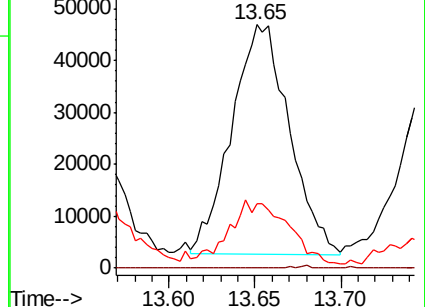
85 27.4 33.5 100.4#

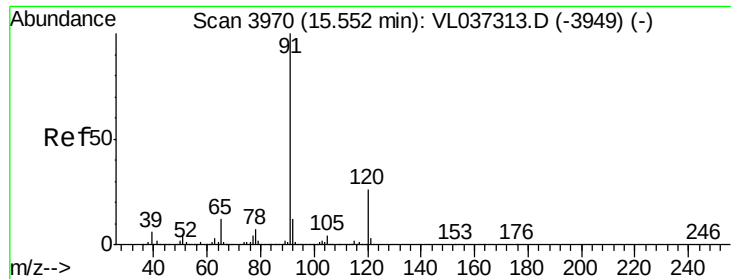


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0

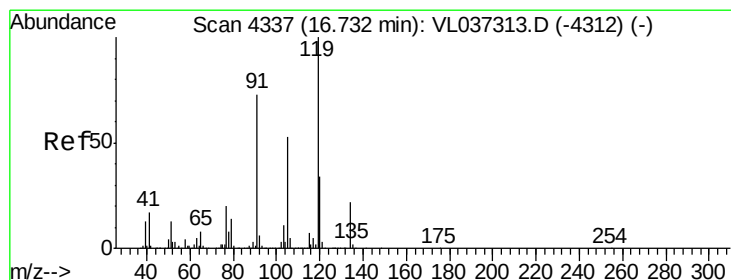
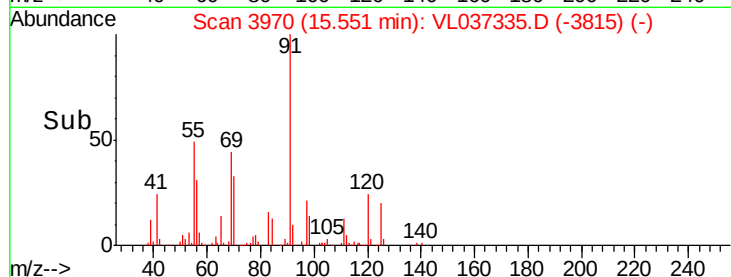
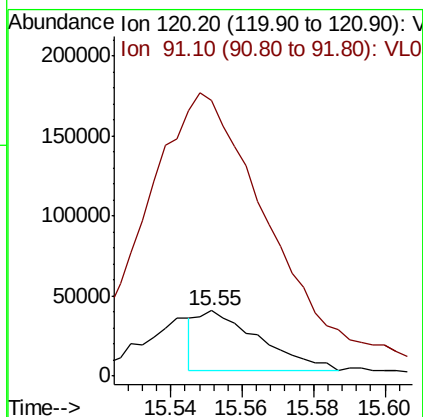
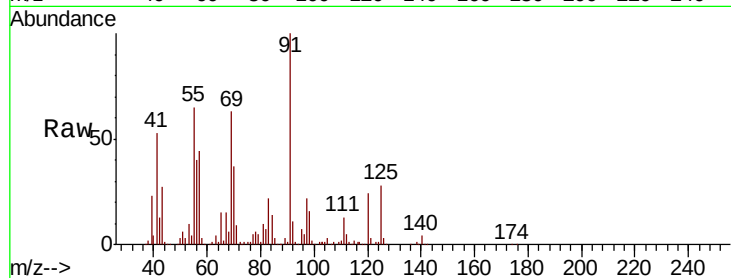




#64
n-propylbenzene
Concen: 0.356 ppbv
RT: 15.55 min Scan# 3970
Delta R.T. -0.00 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

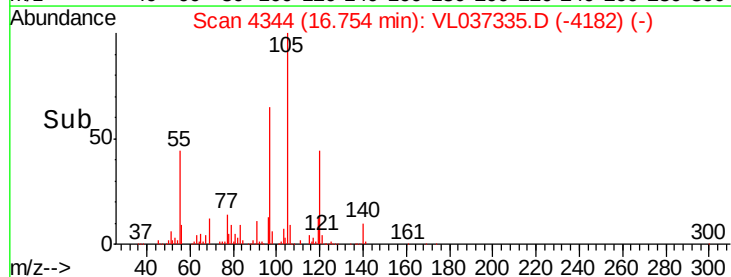
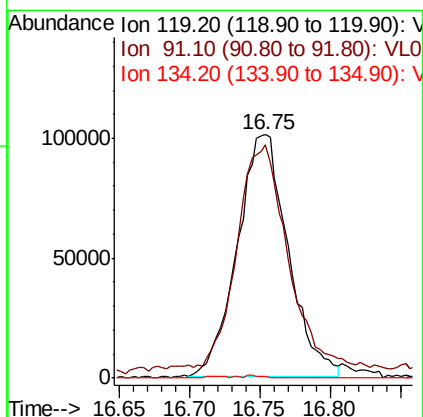
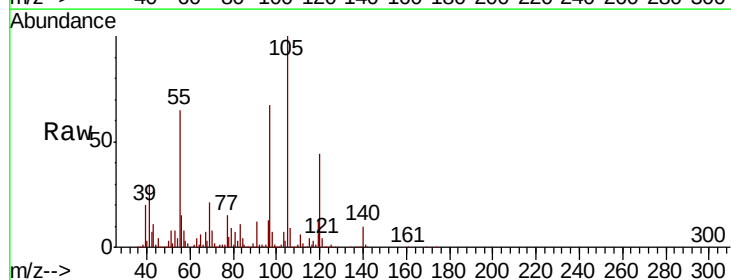
Instrument :
MSVOA_L
ClientSampleId :

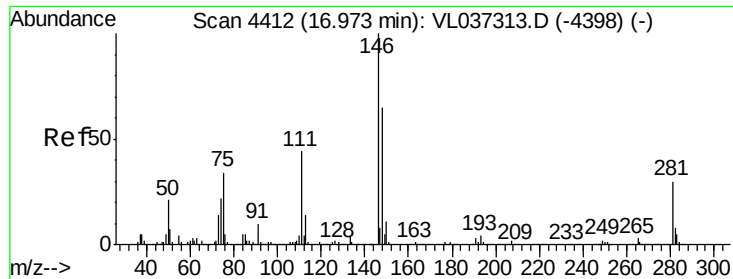
Tot Ion:120 Resp: 44367
Ion Ratio Lower Upper
120 100
91 1067.1 361.0 541.4#



#65
tert-Butylbenzene
Concen: 0.579 ppbv
RT: 16.75 min Scan# 4344
Delta R.T. 0.02 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

Tgt Ion:119 Resp: 254344
Ion Ratio Lower Upper
119 100
91 102.2 58.6 88.0#
134 0.9 16.5 24.7#

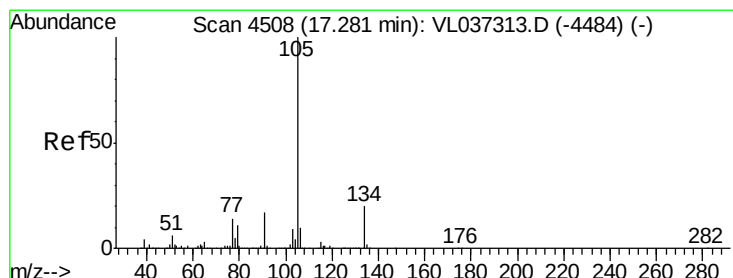
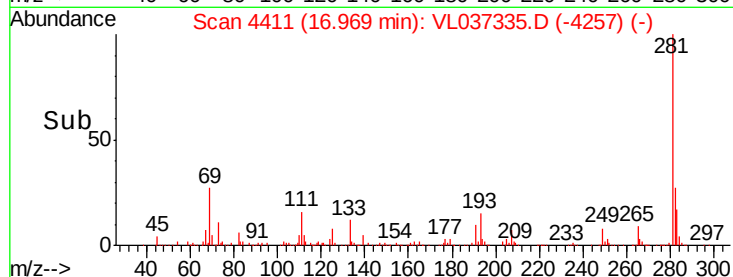
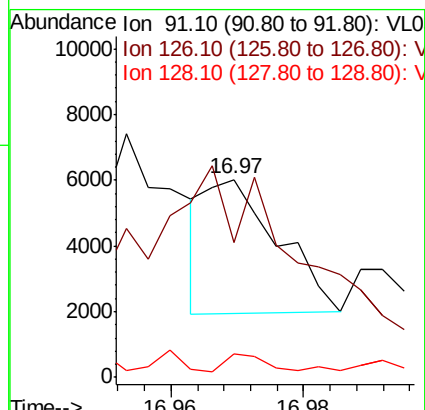
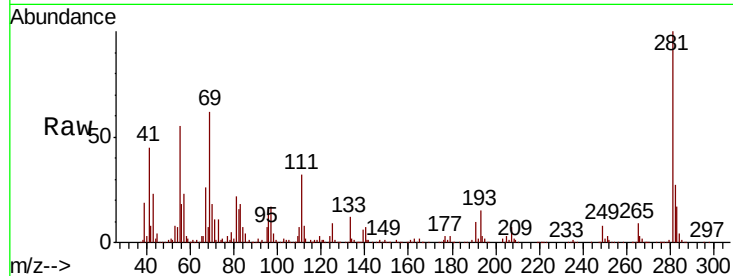




#66
Benzyl Chloride
Concen: 0.180 ppbv
RT: 16.97 min Scan# 4411
Delta R.T. -0.00 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

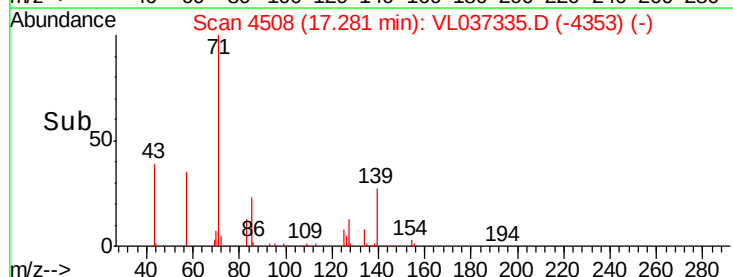
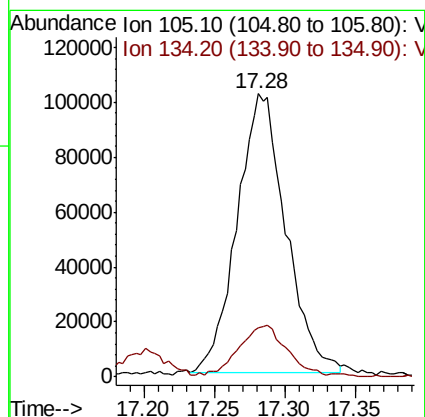
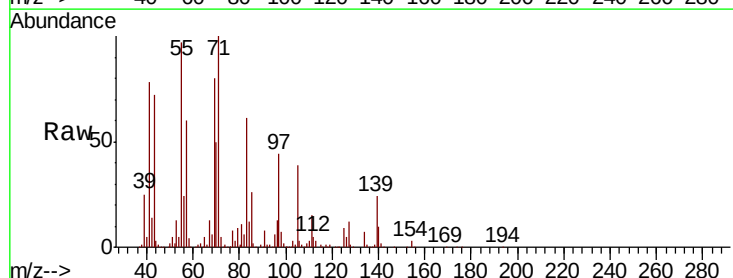
Instrument :
MSVOA_L
ClientSampleId :

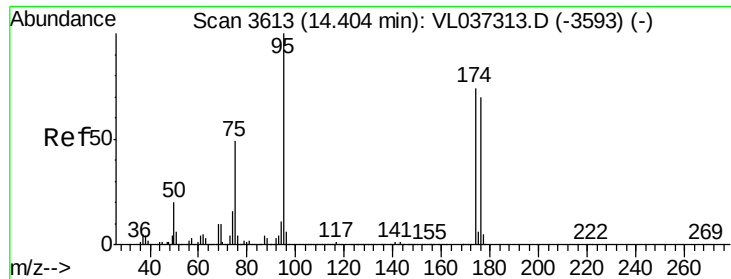
Tot Ion: 91 Resp: 3080
Ion Ratio Lower Upper
91 100
126 515.7 17.8 26.6#
128 38.8 5.8 8.6#



#67
sec-Butylbenzene
Concen: 0.415 ppbv
RT: 17.28 min Scan# 4508
Delta R.T. -0.00 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

Tgt Ion: 105 Resp: 246102
Ion Ratio Lower Upper
105 100
134 18.7 15.4 23.2





#68

1-Bromo-4-Fluorobenzene

Concen: 10.810 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.00 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

Instrument :

MSVOA_L

ClientSampleId :

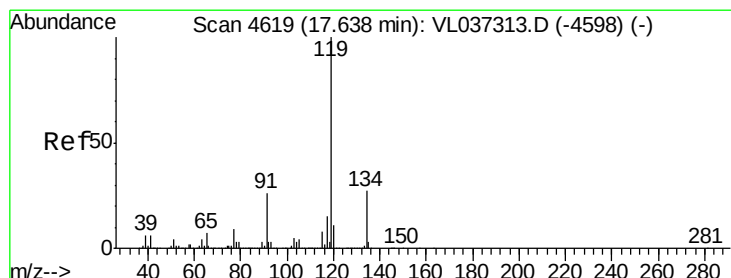
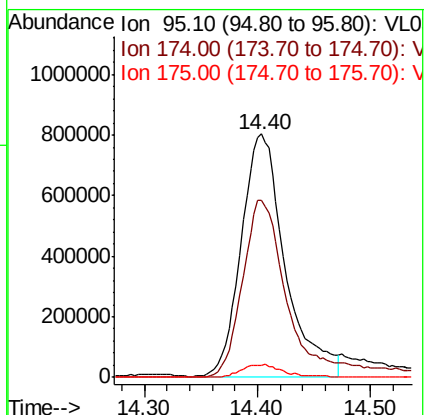
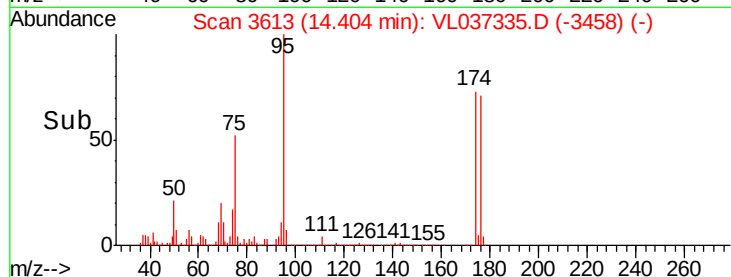
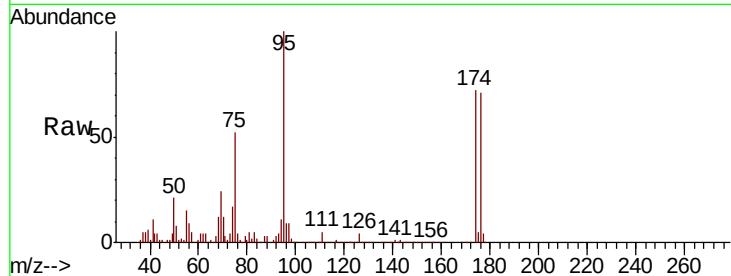
Tot Ion: 95 Resp: 2155740

Ion Ratio Lower Upper

95 100

174 79.4 66.9 100.3

175 5.4 5.1 7.7



#69

p-Isopropyltoluene

Concen: 0.445 ppbv

RT: 17.64 min Scan# 4619

Delta R.T. -0.00 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

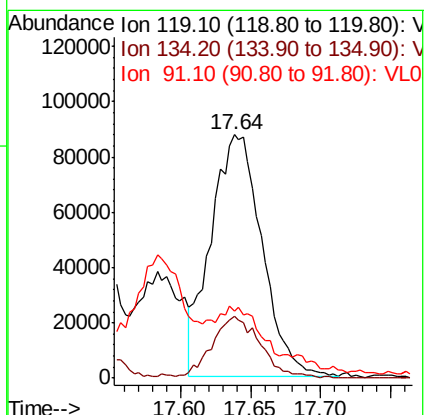
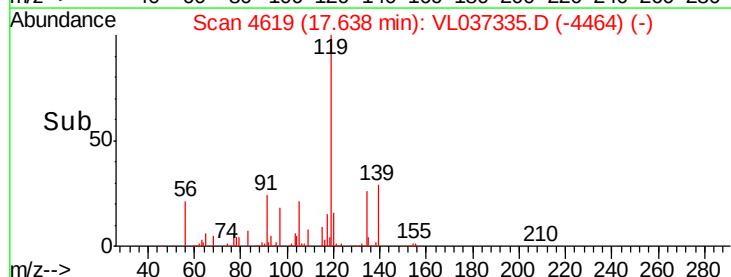
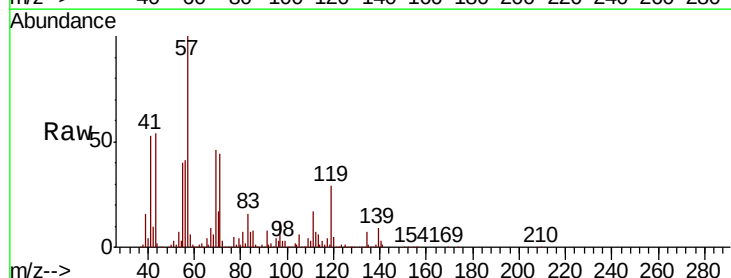
Tgt Ion: 119 Resp: 222083

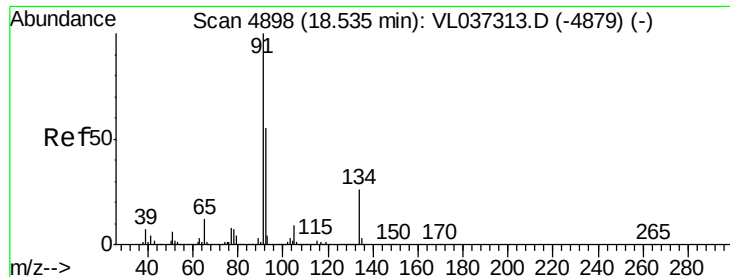
Ion Ratio Lower Upper

119 100

134 24.7 21.0 31.6

91 30.2 20.5 30.7

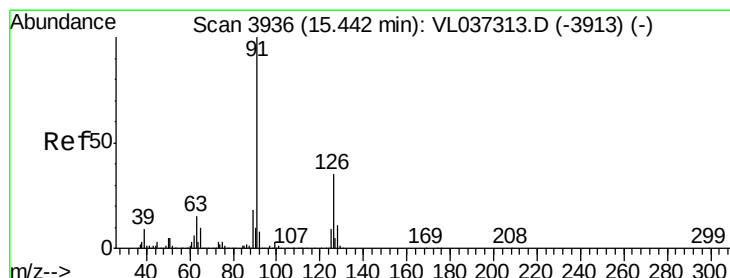
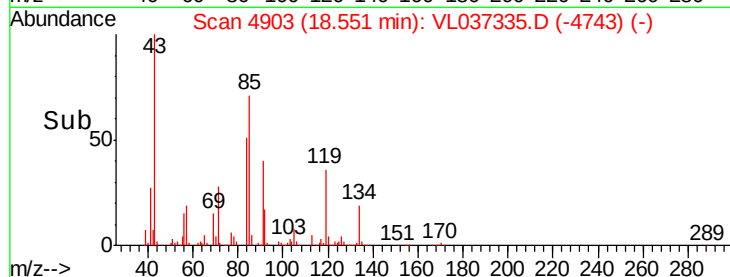
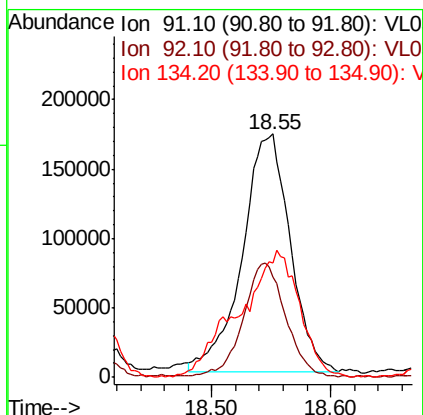
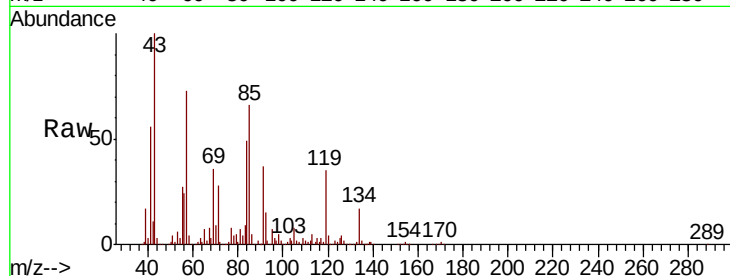




#70
n-Butylbenzene
Concen: 1.043 ppbv
RT: 18.55 min Scan# 4903
Delta R.T. 0.02 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

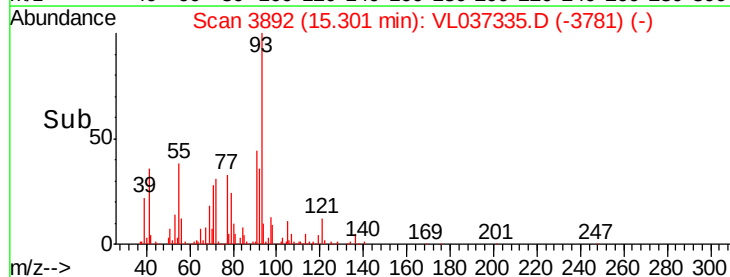
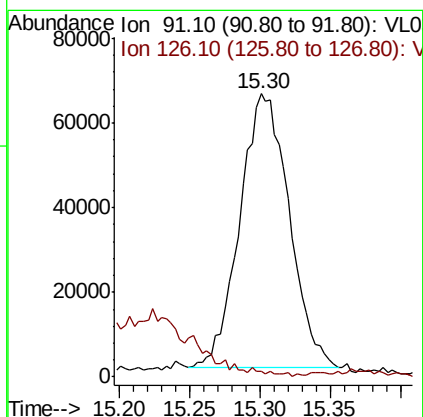
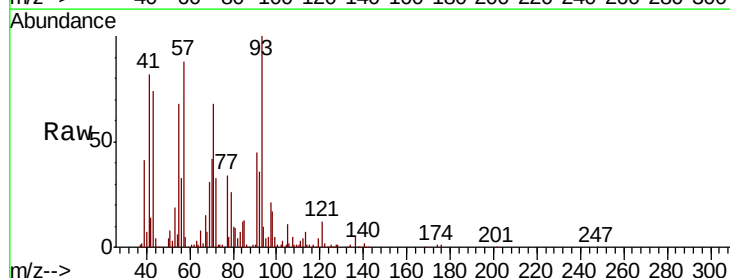
Instrument :
MSVOA_L
ClientSampleId :

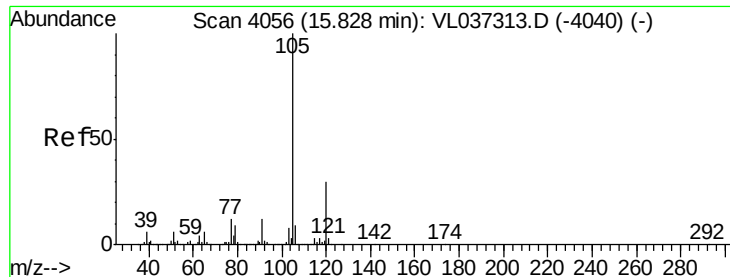
Tot Ion: 91 Resp: 475741
Ion Ratio Lower Upper
91 100
92 41.8 44.1 66.1#
134 67.3 20.6 31.0#



#71
2-Chlorotoluene
Concen: 0.475 ppbv
RT: 15.30 min Scan# 3892
Delta R.T. -0.14 min
Lab File: VL037335.D
Acq: 5 Aug 2021 9:17

Tgt Ion: 91 Resp: 158363
Ion Ratio Lower Upper
91 100
126 24.1 14.3 57.1





#72

4-Ethyltoluene

Concen: 1.152 ppbv

RT: 15.82 min Scan# 4054

Delta R.T. -0.01 min

Lab File: VL037335.D

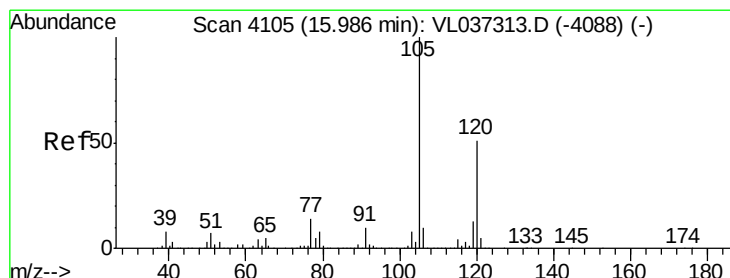
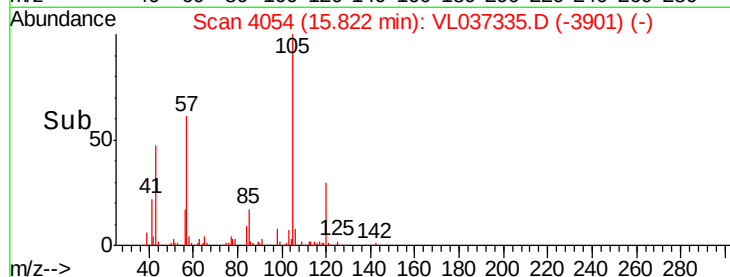
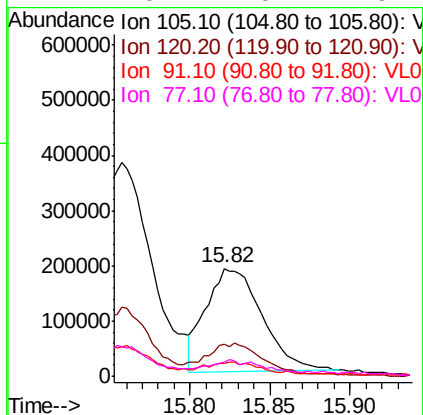
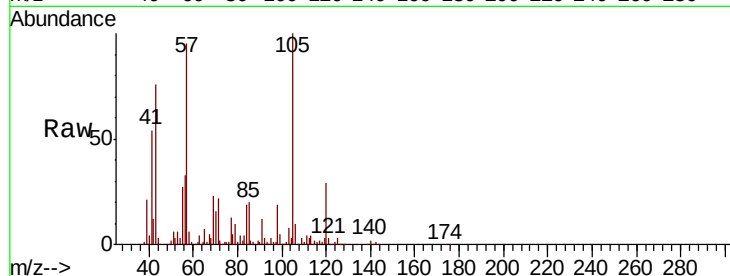
Acq: 5 Aug 2021 9:17

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105	Resp:	456427
Ion Ratio	Lower	Upper
105	100	
120	33.7	25.6 38.4
91	12.4	9.4 14.2
77	16.1	10.2 15.4



#73

1,3,5-Trimethylbenzene

Concen: 1.465 ppbv

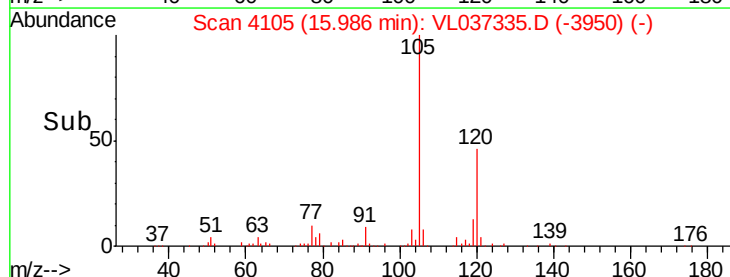
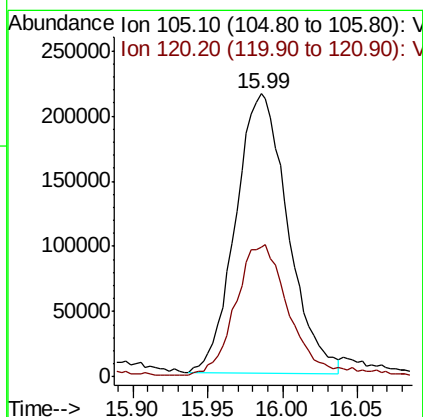
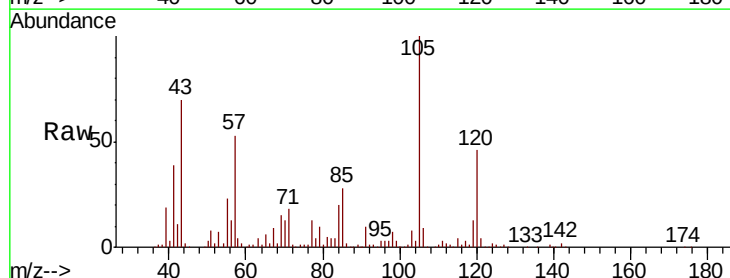
RT: 15.99 min Scan# 4105

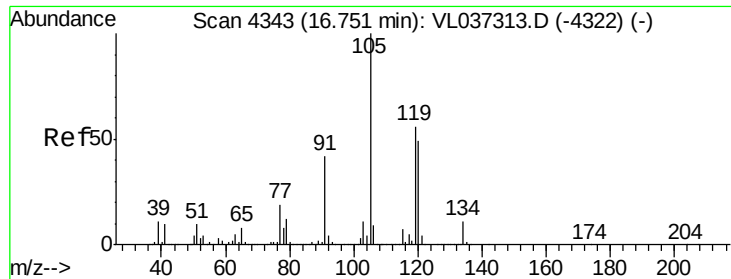
Delta R.T. -0.00 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

Tgt Ion:105	Resp:	522032
Ion Ratio	Lower	Upper
105	100	
120	45.7	40.4 60.6





#74

1,2,4-Trimethylbenzene

Concen: 5.687 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.00 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 2162194

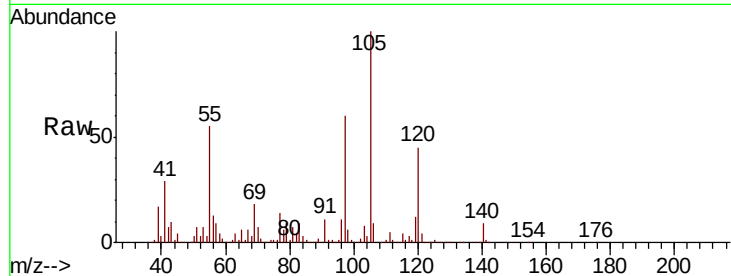
Ion Ratio Lower Upper

105 100

120 44.6 39.6 59.4

91 10.7 34.5 51.7#

77 12.6 15.3 22.9#

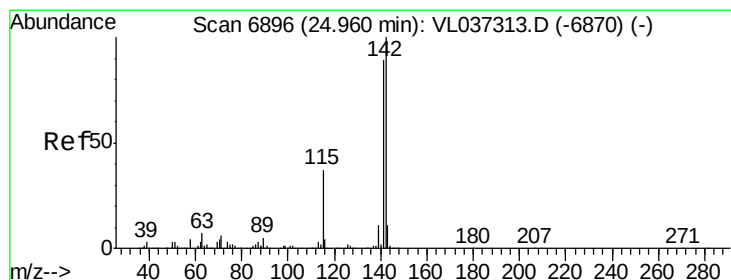
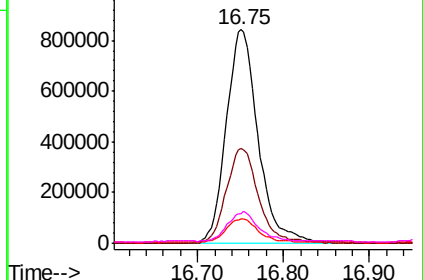
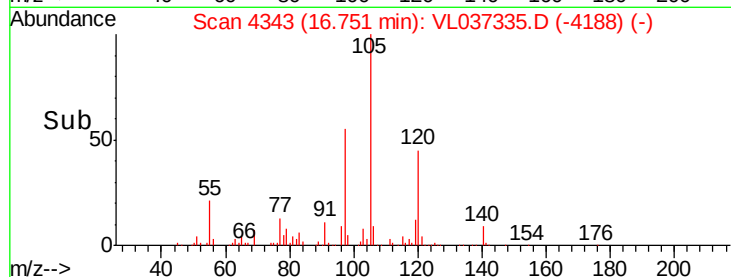


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#80

Naphthalene, 2-methyl-

Concen: 0.143 ppbv

RT: 24.96 min Scan# 6897

Delta R.T. 0.00 min

Lab File: VL037335.D

Acq: 5 Aug 2021 9:17

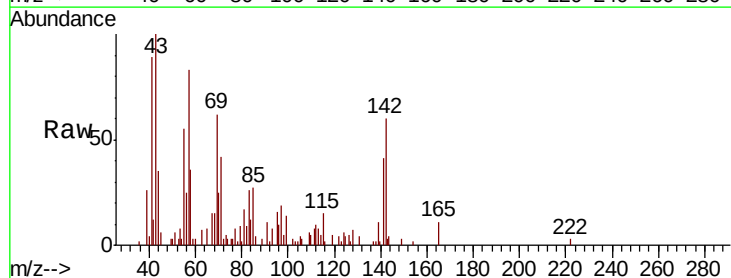
Tgt Ion:142 Resp: 8085

Ion Ratio Lower Upper

142 100

141 110.3 67.2 100.8#

115 49.8 27.9 41.9#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

