

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081921\
 Data File : VL037502.D
 Acq On : 19 Aug 2021 17:16
 Operator : SY/AP
 Sample : M3480-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 20 00:21:33 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1434408	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.18	114	4220786	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3554738	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2486254	9.84	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

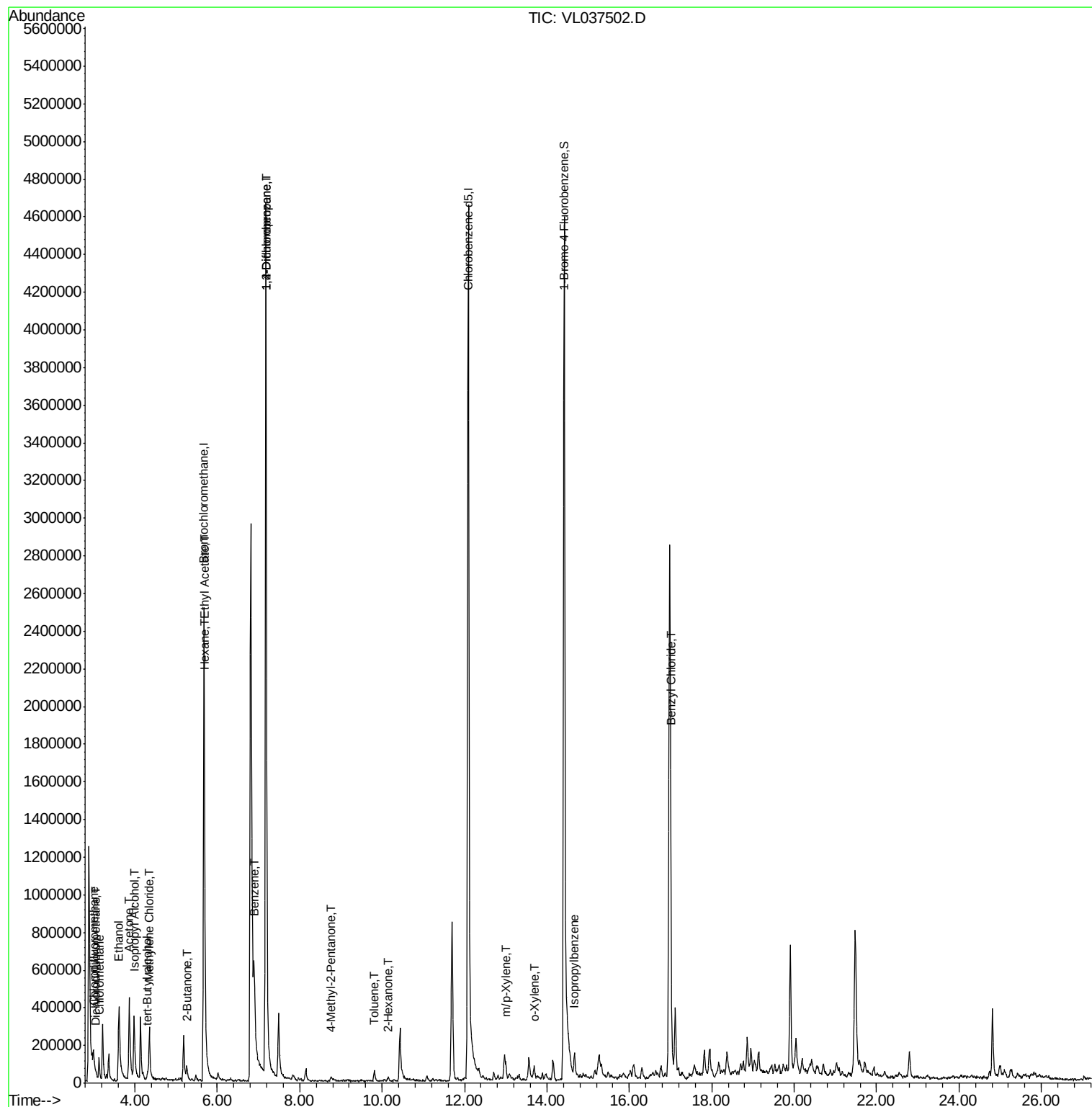
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	9732	0.042 ppbv	93
3) Chlorodifluoromethane	3.00	51	194351	0.708 ppbv #	85
4) Chloromethane	3.14	50	6649	0.068 ppbv	97
13) Ethanol	3.61	45	631101	65.993 ppbv	98
15) Acetone	3.86	43	588352	4.030 ppbv	96
17) tert-Butyl alcohol	4.31	59	35882	0.269 ppbv #	77
19) Isopropyl Alcohol	3.98	45	470673	5.628 ppbv #	1
20) Methylene Chloride	4.35	84	101671	1.391 ppbv	96
25) Ethyl Acetate	5.69	43	98457	0.266 ppbv #	84
26) Hexane	5.69	57	128940	0.712 ppbv #	47
34) 2-Butanone	5.25	43	41141	0.239 ppbv #	1
36) Benzene	6.89	78	281253	0.793 ppbv	97
39) 1,2-Dichloropropane	7.18	63	990895	7.268 ppbv #	26
50) 4-Methyl-2-Pentanone	8.75	43	9510	0.042 ppbv #	38
51) 2-Hexanone	10.14	43	8385	0.081 ppbv #	24
53) Toluene	9.82	91	22235	0.055 ppbv #	39
59) m/p-Xylene	13.00	91	37031	0.087 ppbv #	30
60) o-Xylene	13.70	91	16777	0.042 ppbv #	29
62) Isopropylbenzene	14.67	105	56959	0.101 ppbv #	52
66) Benzyl Chloride	17.01	91	844	0.036 ppbv #	63

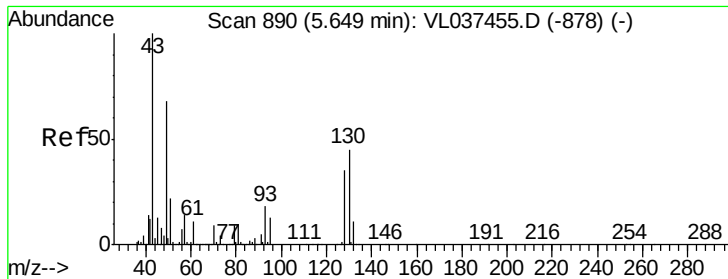
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.03 min

Lab File: VL037502.D

Acq: 19 Aug 2021 17:16

Instrument :

MSVOA_L

ClientSampleId :

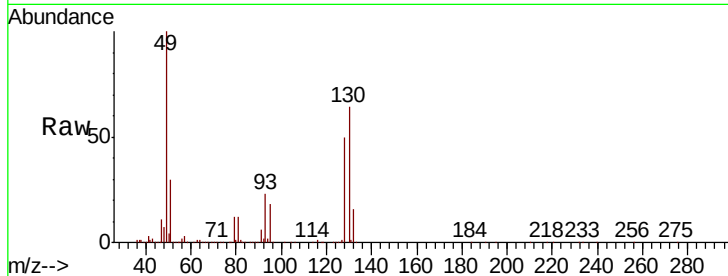
Tot Ion: 49 Resp: 1434408

Ion Ratio Lower Upper

49 100

128 53.9 27.5 82.4

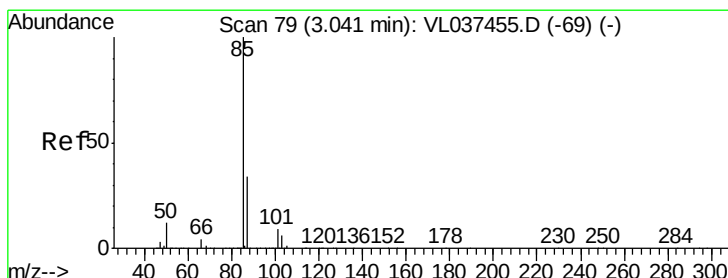
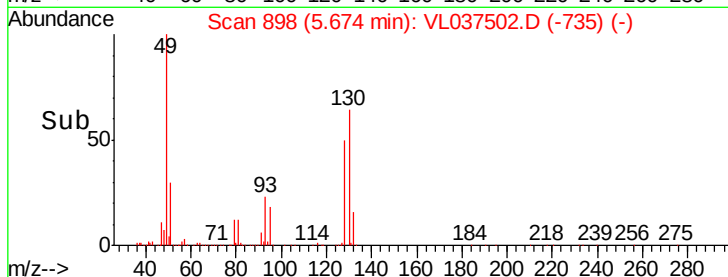
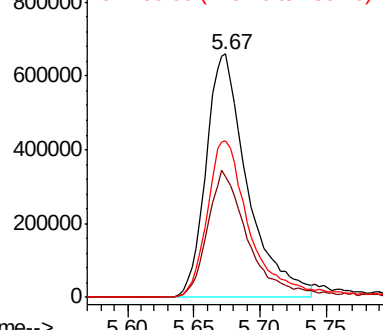
130 69.1 34.0 101.8



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: 0.042 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL037502.D

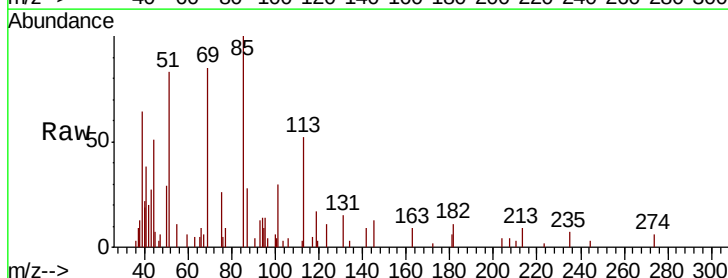
Acq: 19 Aug 2021 17:16

Tgt Ion: 85 Resp: 9732

Ion Ratio Lower Upper

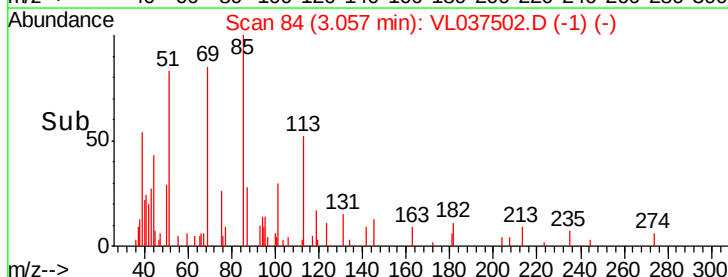
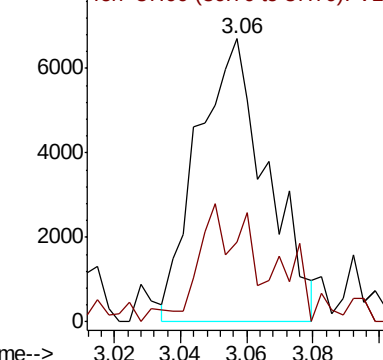
85 100

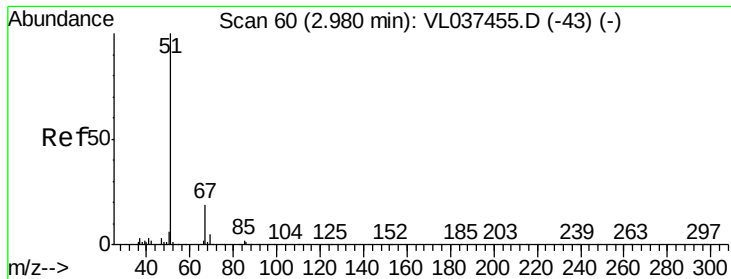
87 30.2 27.6 41.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.708 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.02 min

Lab File: VL037502.D

Acq: 19 Aug 2021 17:16

Instrument :

MSVOA_L

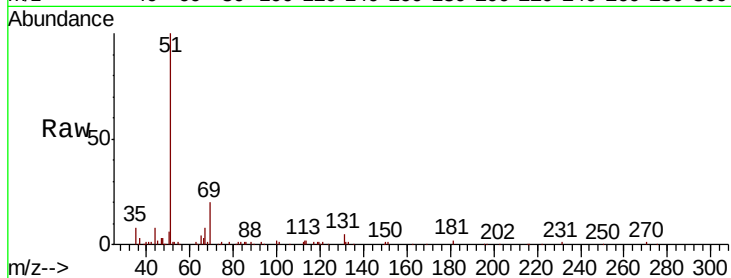
ClientSampleId :

Tot Ion: 51 Resp: 194351

Ion Ratio Lower Upper

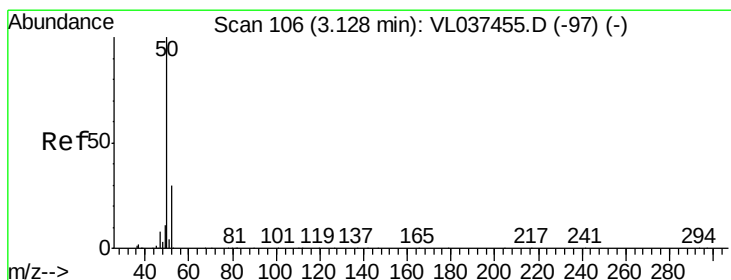
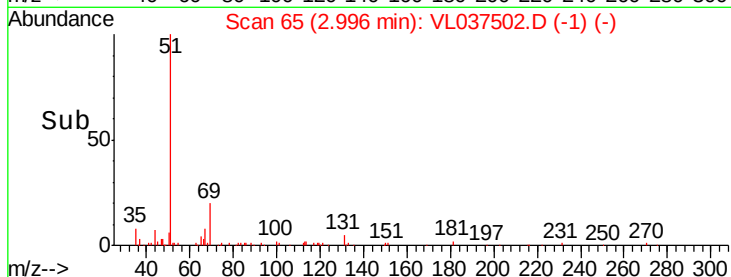
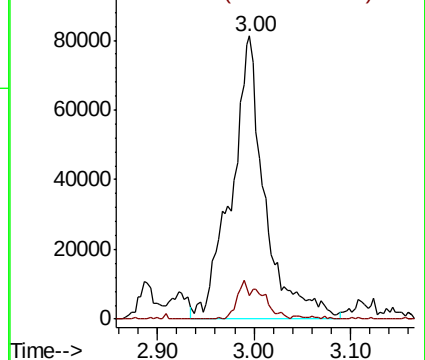
51 100

67 11.1 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: 0.068 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.02 min

Lab File: VL037502.D

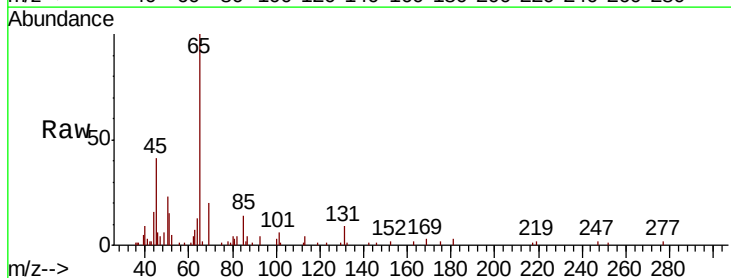
Acq: 19 Aug 2021 17:16

Tgt Ion: 50 Resp: 6649

Ion Ratio Lower Upper

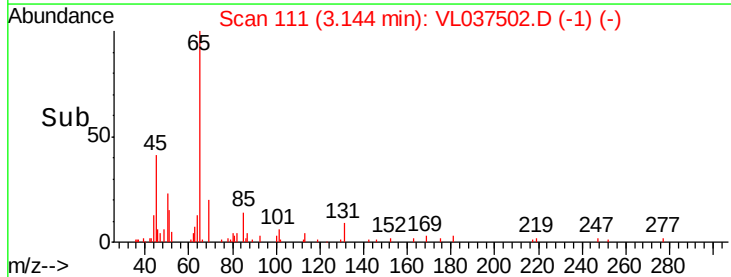
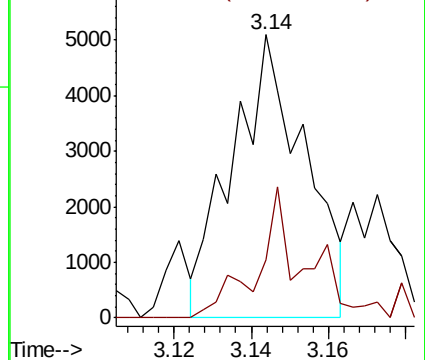
50 100

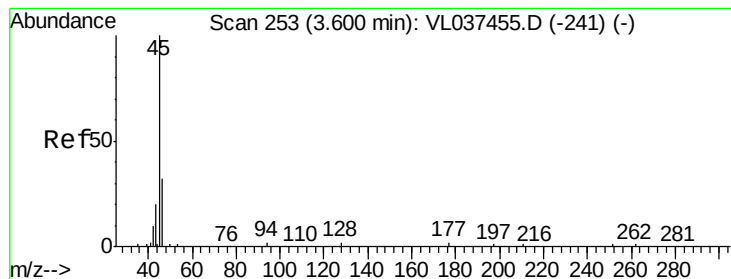
52 28.1 24.0 36.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#13

Ethanol

Concen: 65.993 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL037502.D

Acq: 19 Aug 2021 17:16

Instrument :

MSVOA_L

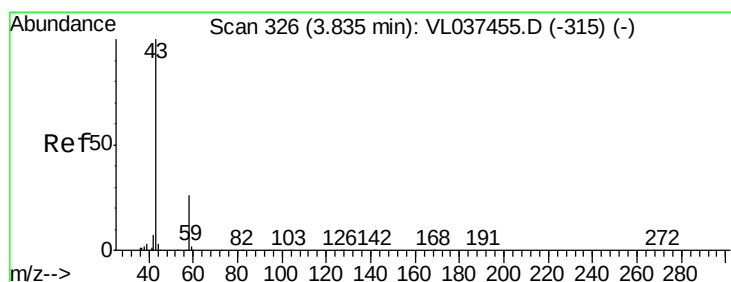
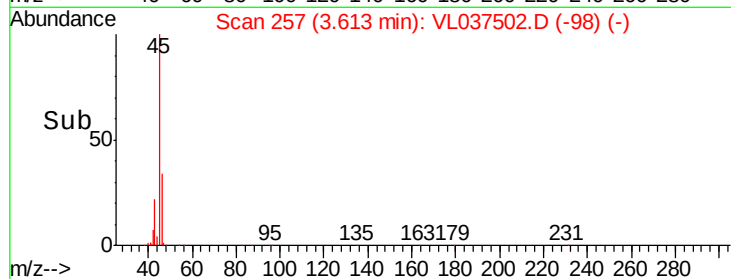
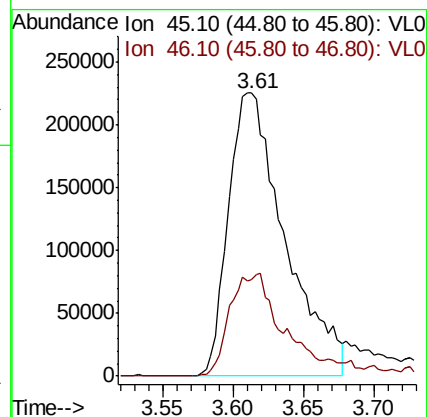
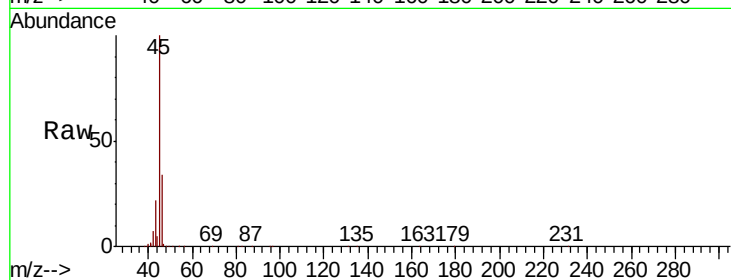
ClientSampleId :

Tot Ion: 45 Resp: 631101

Ion Ratio Lower Upper

45 100

46 36.7 14.1 56.5



#15

Acetone

Concen: 4.030 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.02 min

Lab File: VL037502.D

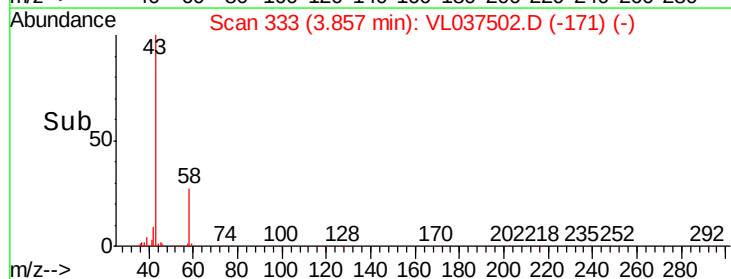
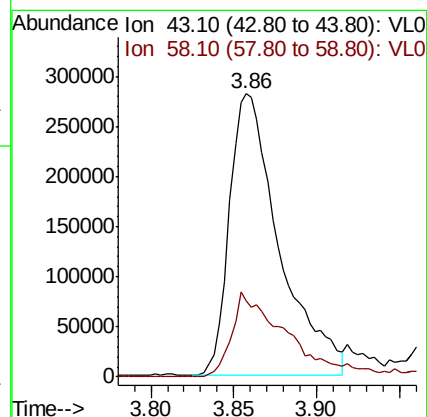
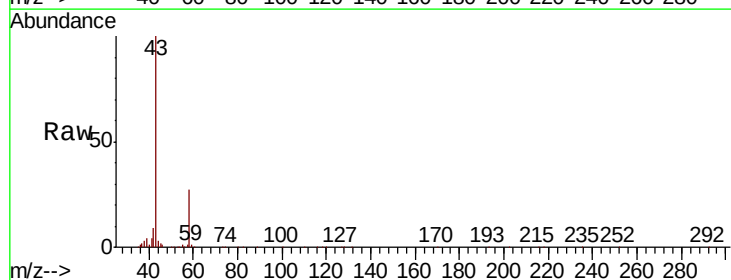
Acq: 19 Aug 2021 17:16

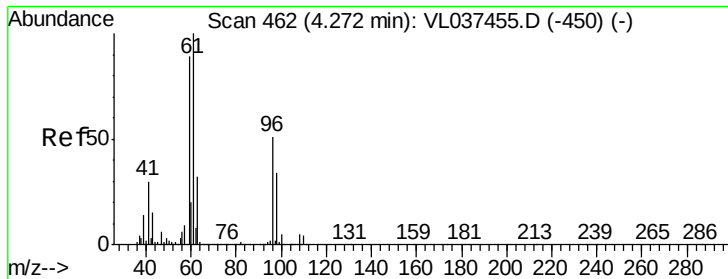
Tgt Ion: 43 Resp: 588352

Ion Ratio Lower Upper

43 100

58 33.2 24.8 37.2



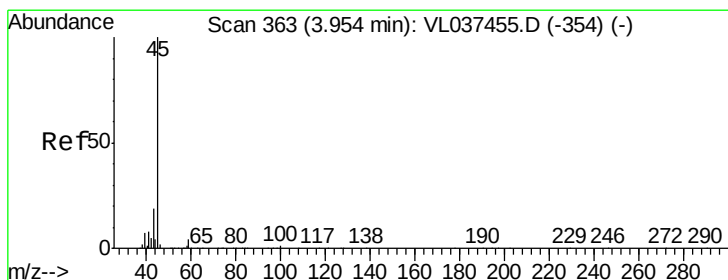
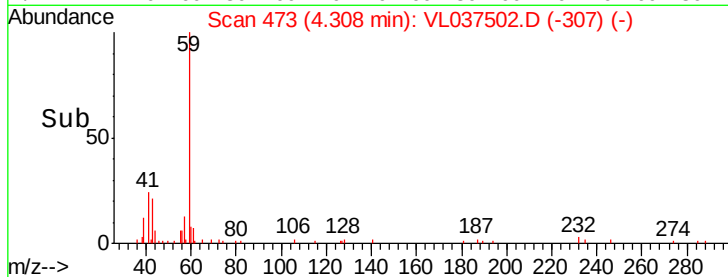
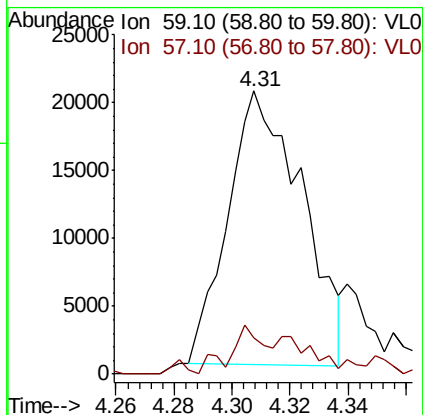
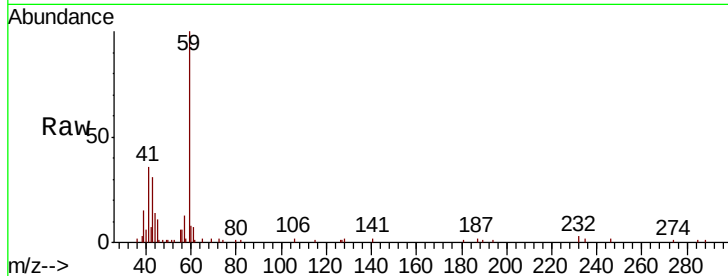


#17

tert-Butyl alcohol
Concen: 0.269 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.04 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

Instrument :
MSVOA_L
ClientSampleId :

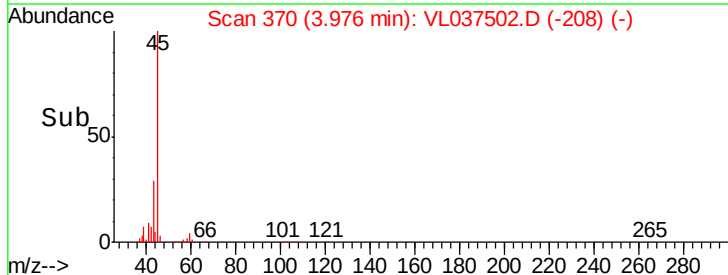
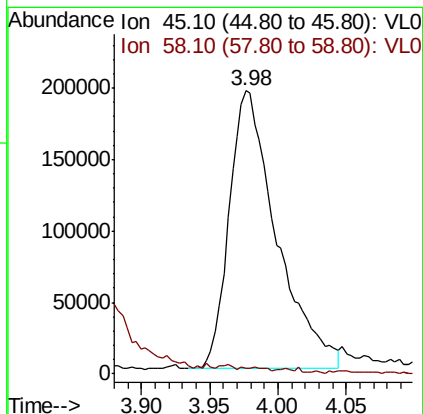
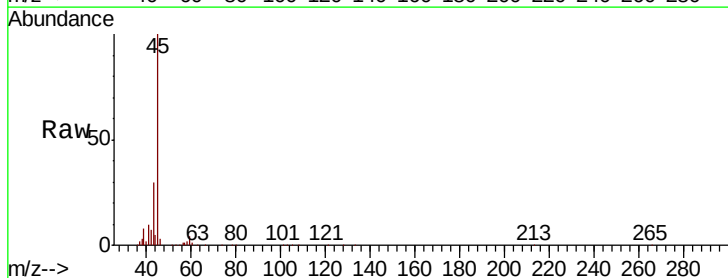
Tot Ion: 59 Resp: 35882
Ion Ratio Lower Upper
59 100
57 18.9 8.3 12.5#

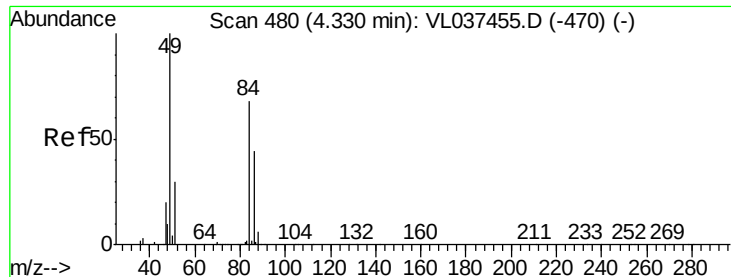


#19

Isopropyl Alcohol
Concen: 5.628 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.02 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

Tgt Ion: 45 Resp: 470673
Ion Ratio Lower Upper
45 100
58 47.3 1.4 2.2#

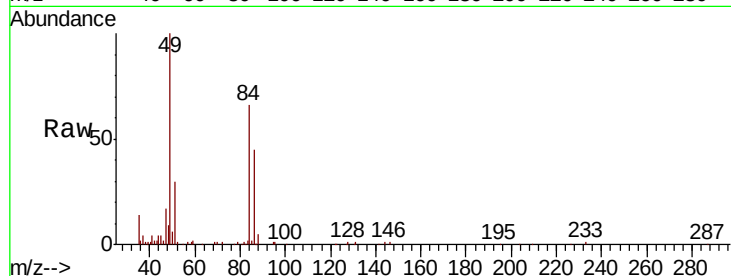




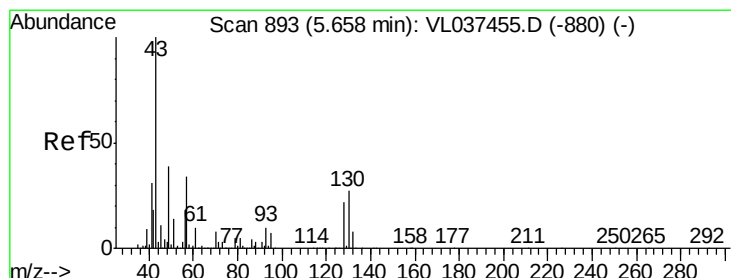
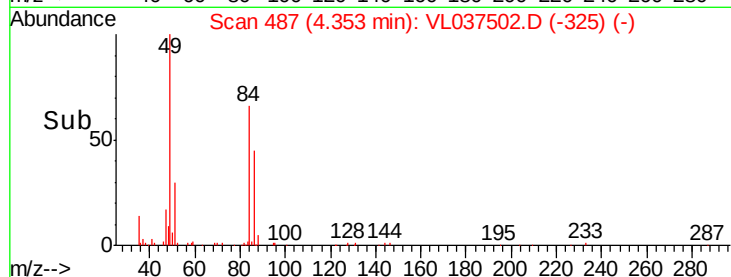
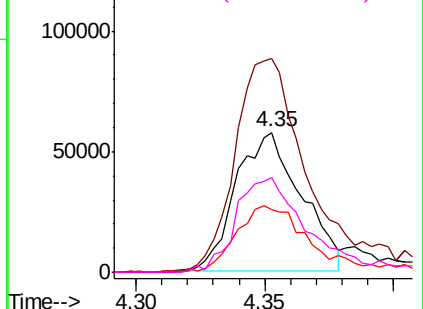
#20
Methylene Chloride
Concen: 1.391 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.02 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	84	Resp:	101671
Ion	Ratio	Lower	Upper
84	100		
49	151.7	118.2	177.2
51	43.0	36.6	55.0
86	67.8	51.8	77.6

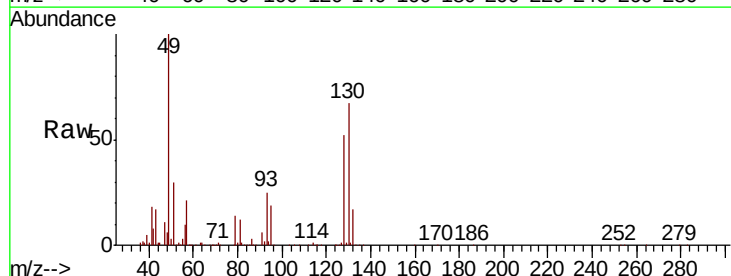


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

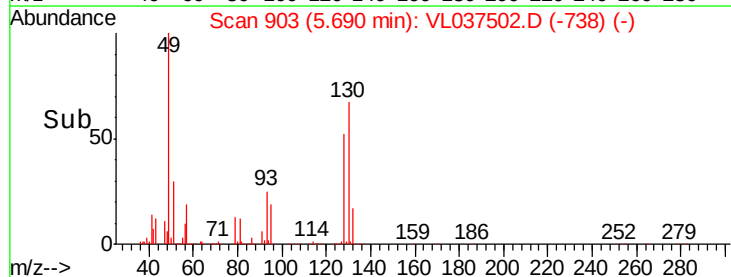
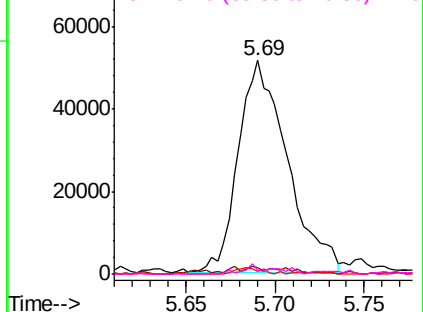


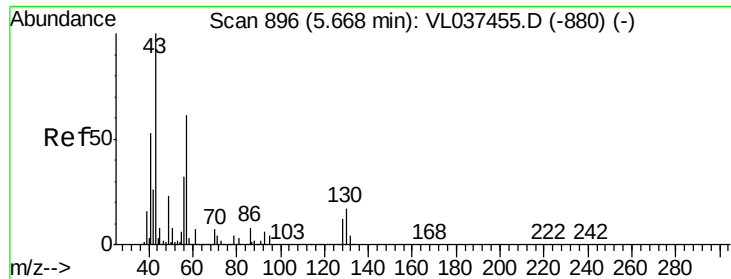
#25
Ethyl Acetate
Concen: 0.266 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.03 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

Tgt Ion:	43	Resp:	98457
Ion	Ratio	Lower	Upper
43	100		
45	4.5	8.0	12.0#
61	2.3	8.0	12.0#
70	3.1	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

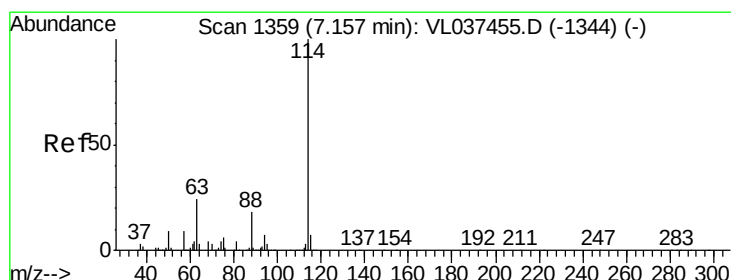
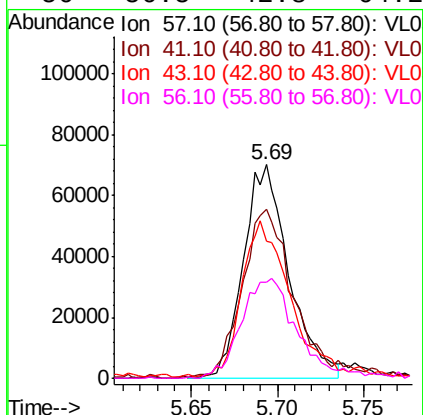
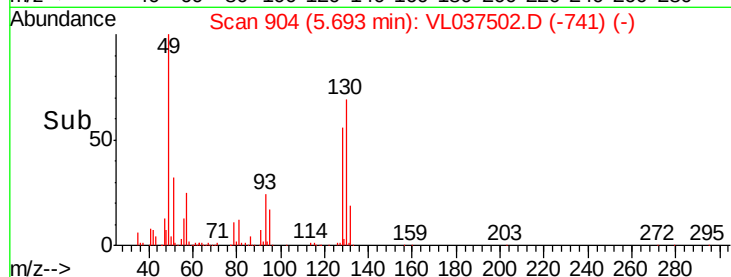
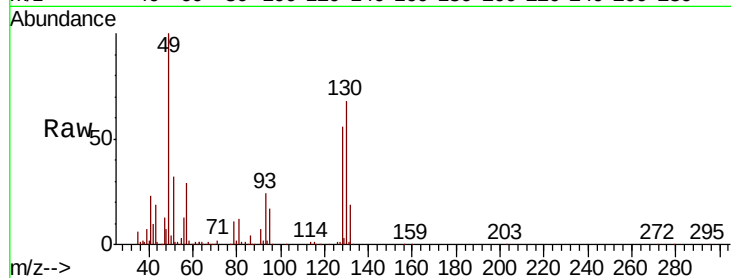




#26
Hexane
Concen: 0.712 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.03 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

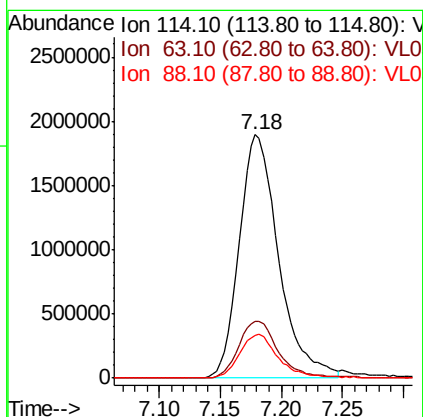
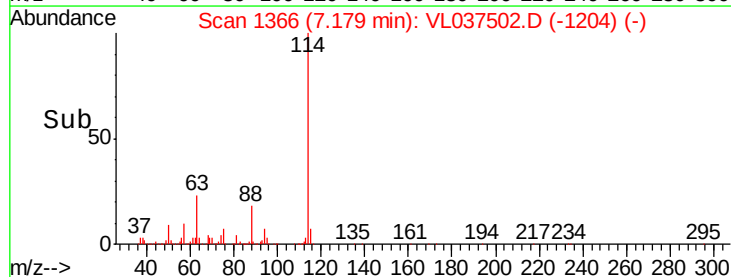
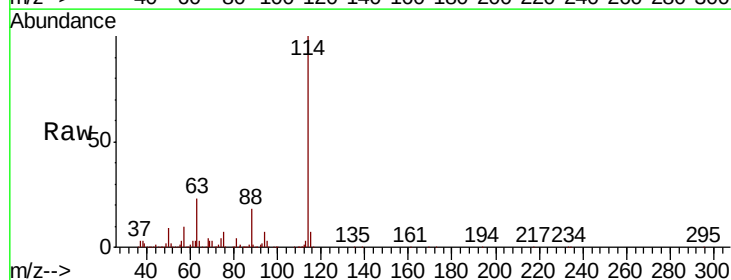
Instrument :
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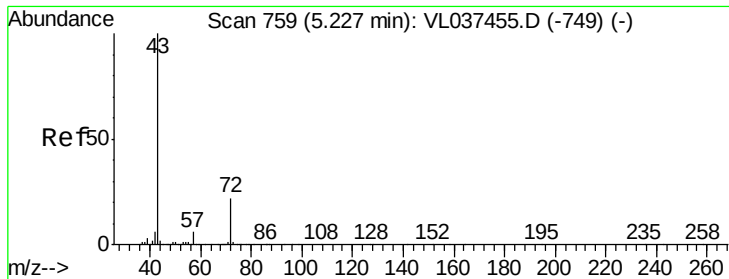
Tot Ion	57	Resp	128940
Ion	Ratio	Lower	Upper
57	100		
41	93.3	72.3	108.5
43	77.9	172.3	258.5#
56	56.5	42.8	64.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.02 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

Tgt Ion	114	Resp	4220786
Ion	Ratio	Lower	Upper
114	100		
63	24.0	19.3	28.9
88	18.1	14.2	21.4

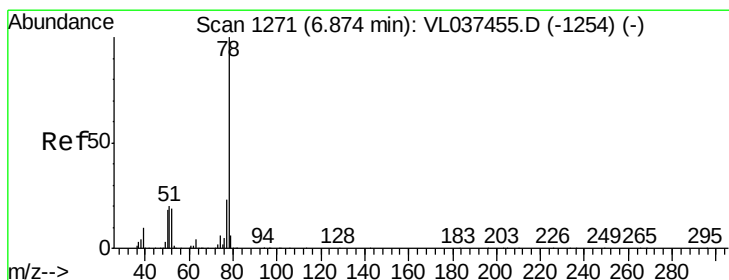
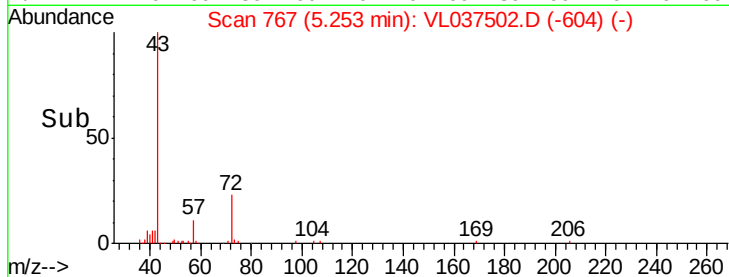
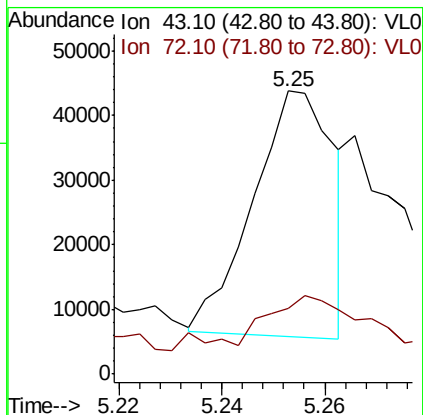
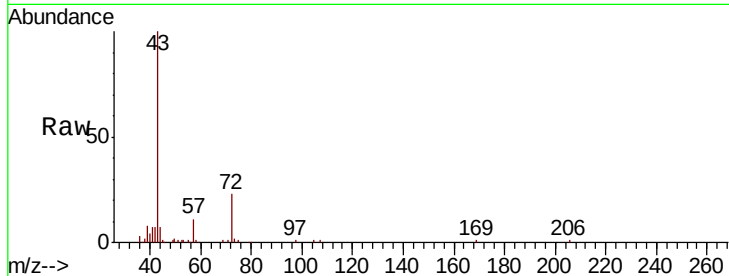




#34
2-Butanone
Concen: 0.239 ppbv
RT: 5.25 min Scan# 767
Delta R.T. 0.03 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

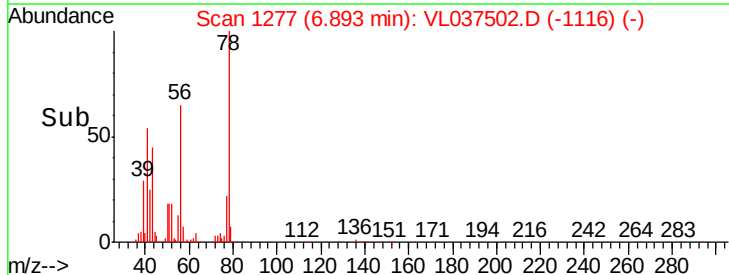
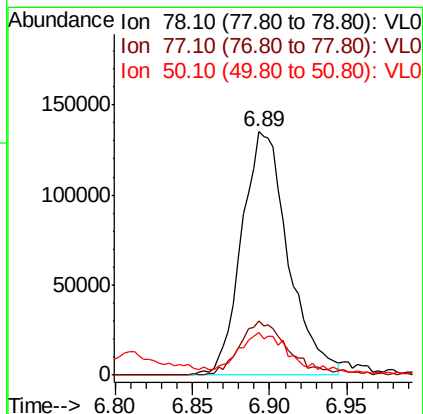
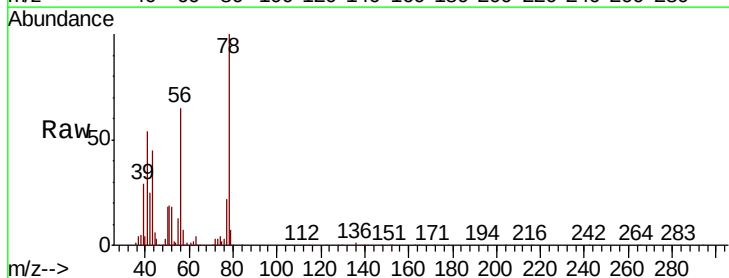
Instrument :
MSVOA_L
ClientSampleId :

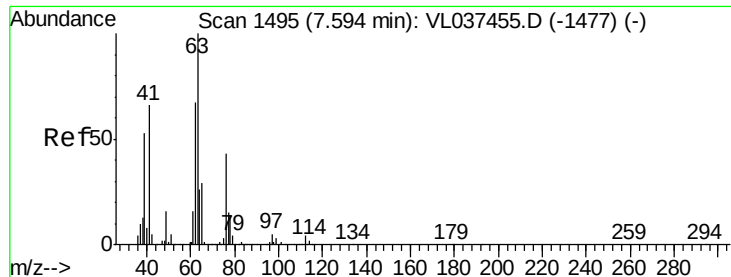
Tot Ion: 43 Resp: 41141
Ion Ratio Lower Upper
43 100
72 81.6 17.4 26.0#



#36
Benzene
Concen: 0.793 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. 0.02 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

Tgt Ion: 78 Resp: 281253
Ion Ratio Lower Upper
78 100
77 22.3 18.2 27.4
50 15.5 14.6 21.8

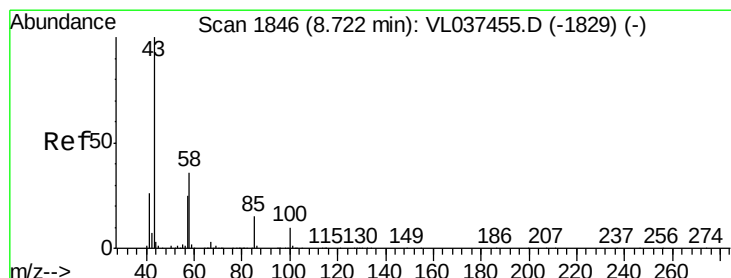
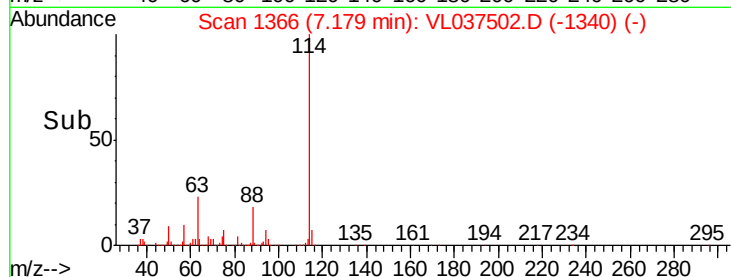
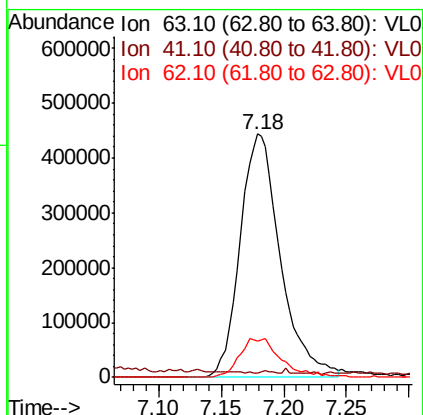
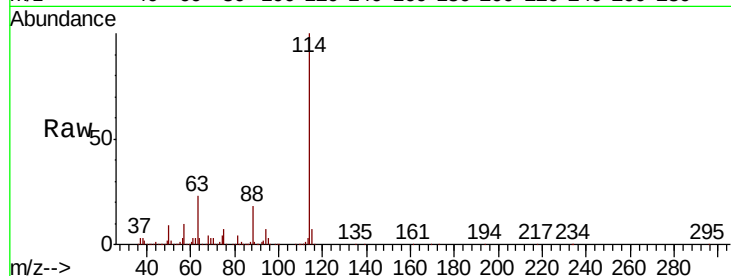




#39
 1,2-Dichloropropane
 Concen: 7.268 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.41 min
 Lab File: VL037502.D
 Acq: 19 Aug 2021 17:16

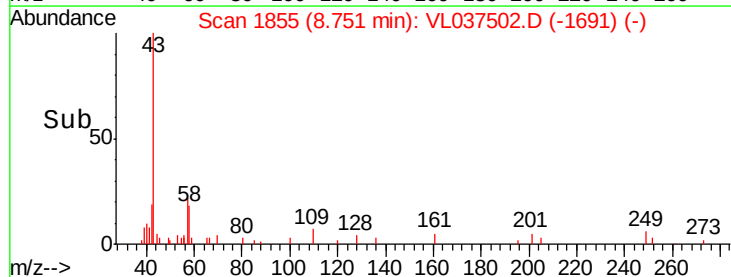
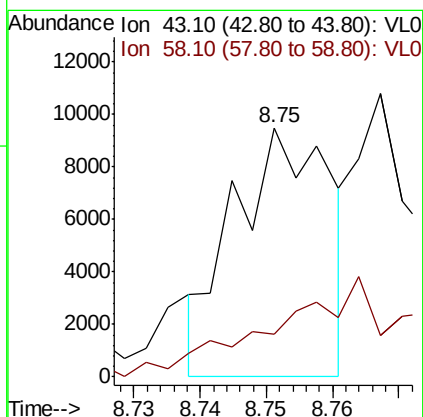
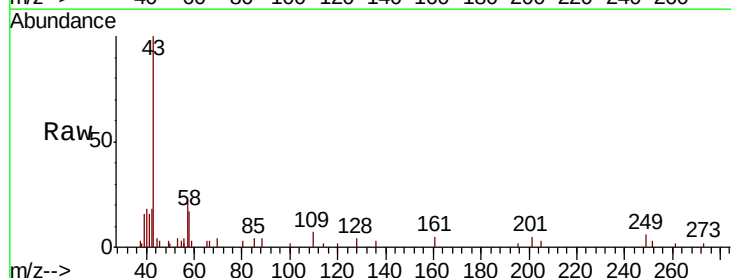
Instrument :
 MSVOA_L
 ClientSampleId :

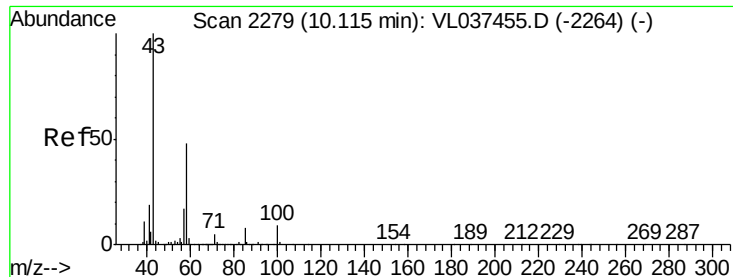
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	52.4	78.6#
62	14.7	53.6	80.4#



#50
 4-Methyl-2-Pentanone
 Concen: 0.042 ppbv
 RT: 8.75 min Scan# 1855
 Delta R.T. 0.03 min
 Lab File: VL037502.D
 Acq: 19 Aug 2021 17:16

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.9	44.9#

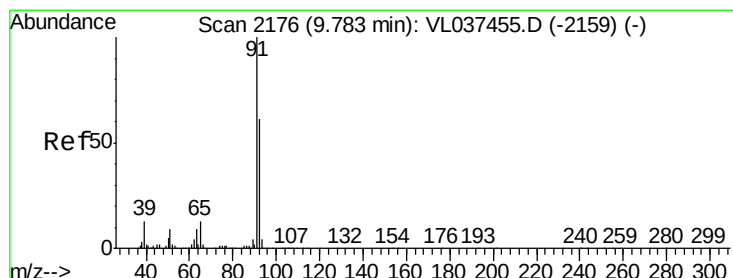
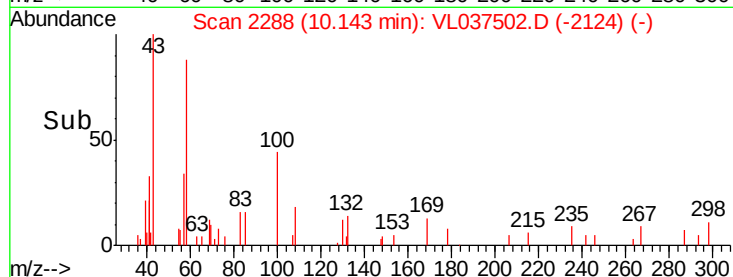
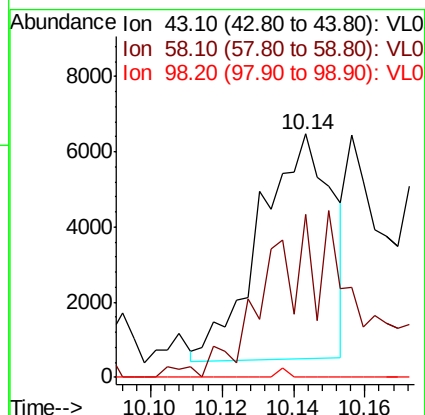
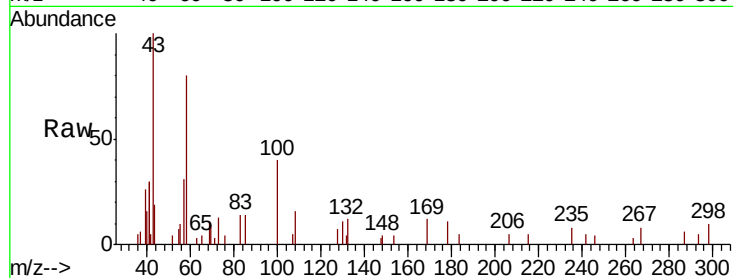




#51
2-Hexanone
Concen: 0.081 ppbv
RT: 10.14 min Scan# 2288
Delta R.T. 0.03 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

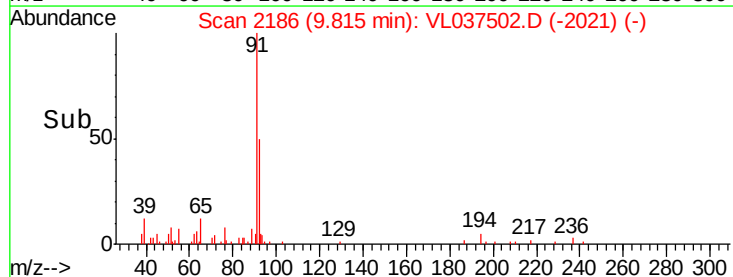
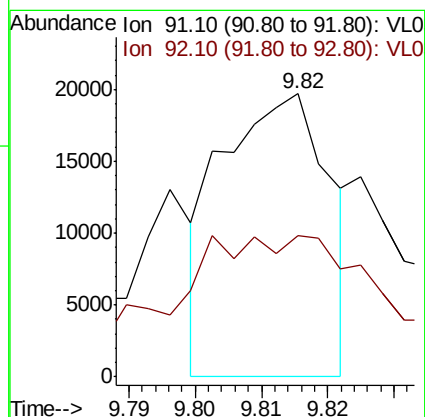
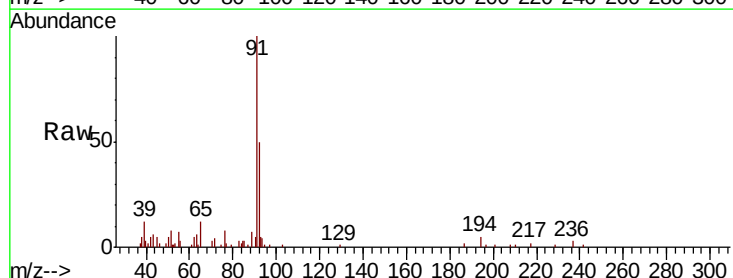
Instrument :
MSVOA_L
ClientSampleId :

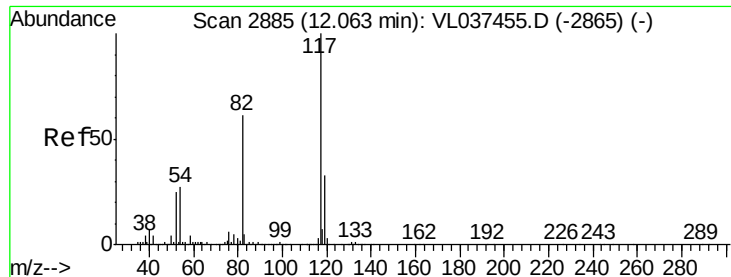
Tot Ion: 43 Resp: 8385
Ion Ratio Lower Upper
43 100
58 104.7 41.0 61.6#
98 0.0 0.3 0.5#



#53
Toluene
Concen: 0.055 ppbv
RT: 9.82 min Scan# 2186
Delta R.T. 0.03 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

Tgt Ion: 91 Resp: 22235
Ion Ratio Lower Upper
91 100
92 107.9 48.8 73.2#

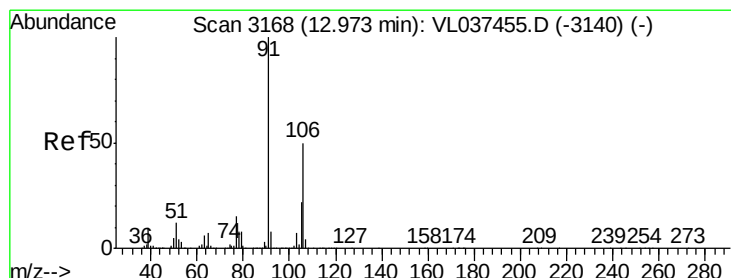
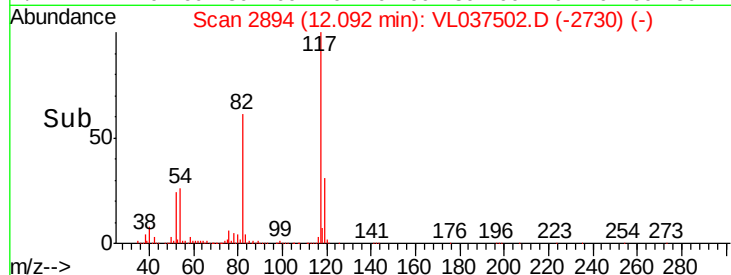
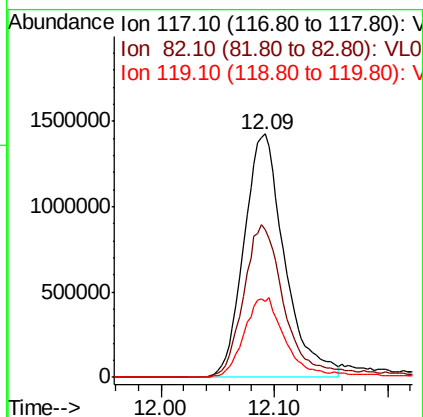
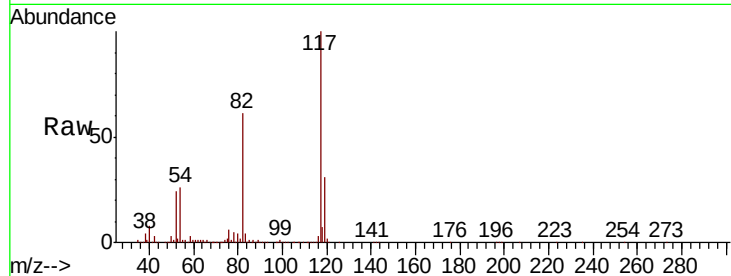




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. 0.03 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

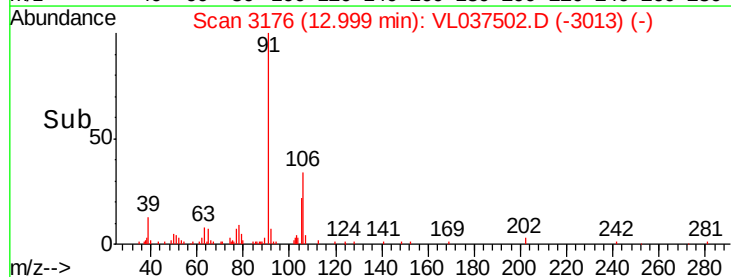
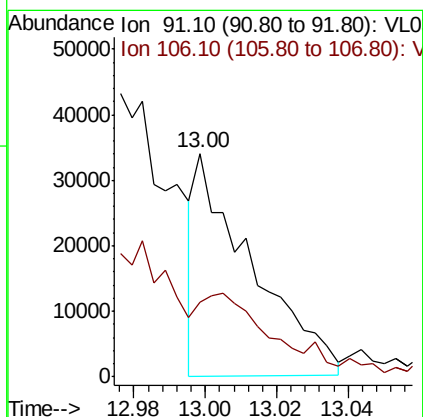
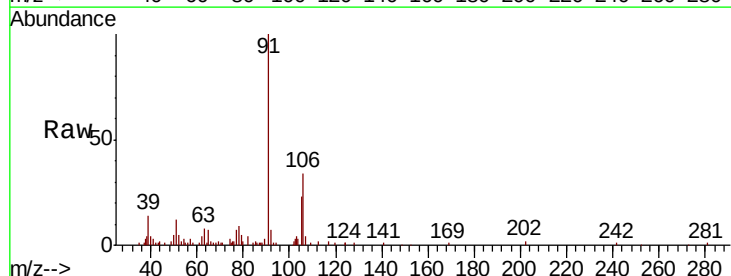
Instrument :
MSVOA_L
ClientSampleId :

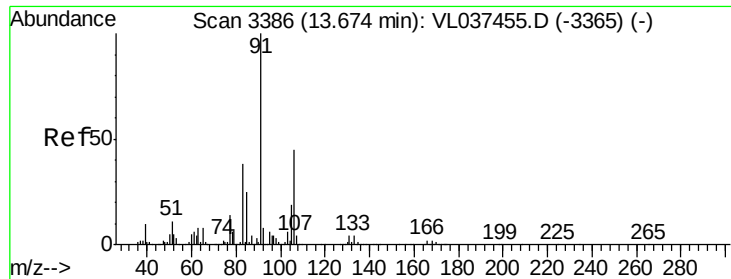
Tot Ion:117 Resp: 3554738
Ion Ratio Lower Upper
117 100
82 66.9 52.9 79.3
119 34.8 24.8 37.2



#59
m/p-Xylene
Concen: 0.087 ppbv
RT: 13.00 min Scan# 3176
Delta R.T. 0.03 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

Tgt Ion: 91 Resp: 37031
Ion Ratio Lower Upper
91 100
106 0.0 36.9 55.3#

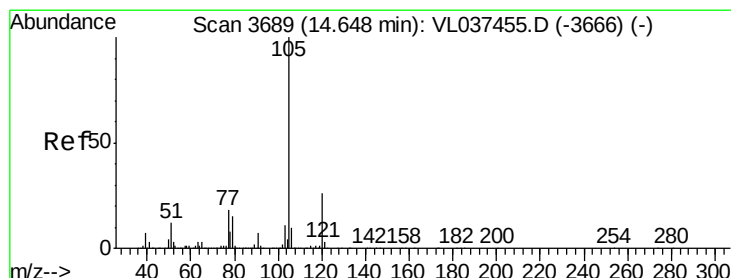
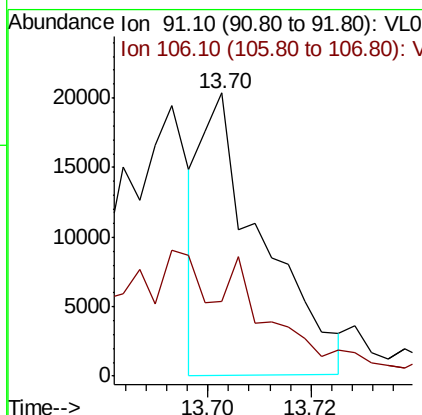
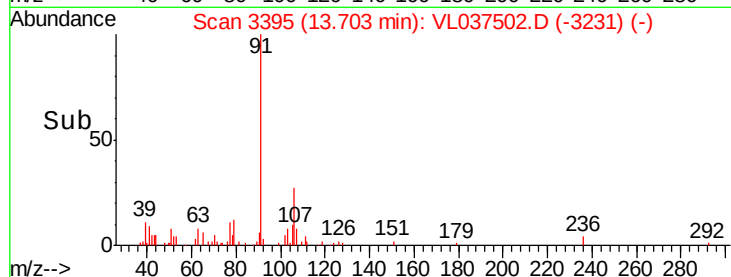
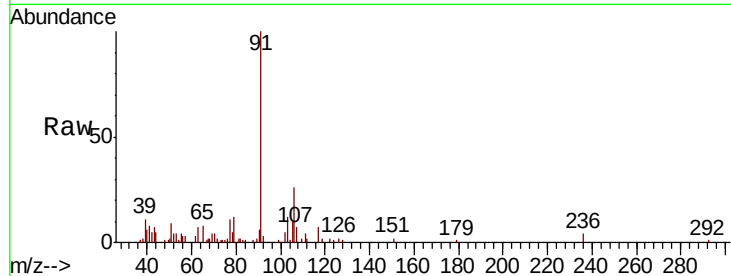




#60
o-Xylene
Concen: 0.042 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. 0.03 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

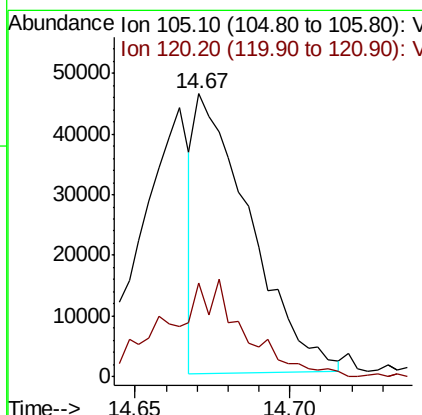
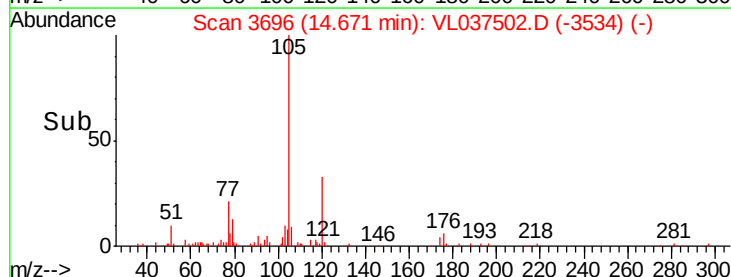
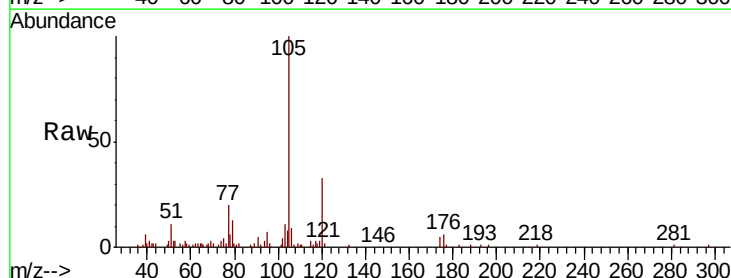
Instrument :
MSVOA_L
ClientSampleId :

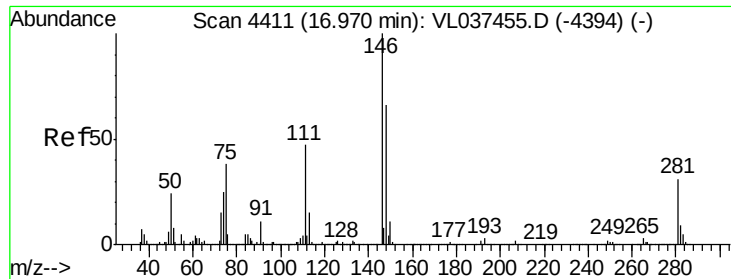
Tot Ion: 91 Resp: 16777
Ion Ratio Lower Upper
91 100
106 0.0 23.7 71.1#



#62
Isopropylbenzene
Concen: 0.101 ppbv
RT: 14.67 min Scan# 3696
Delta R.T. 0.02 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

Tgt Ion: 105 Resp: 56959
Ion Ratio Lower Upper
105 100
120 51.5 21.5 32.3#

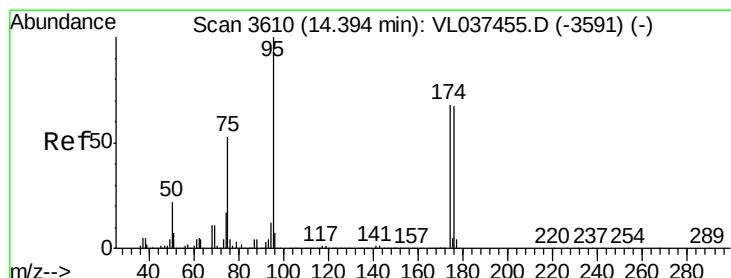
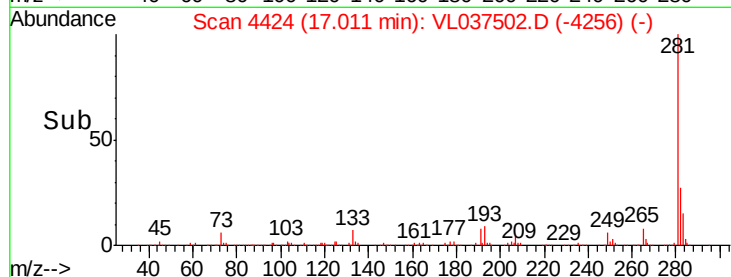
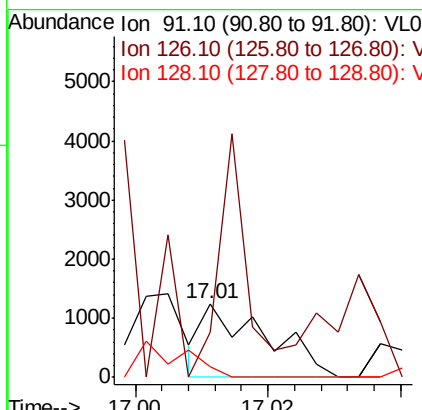
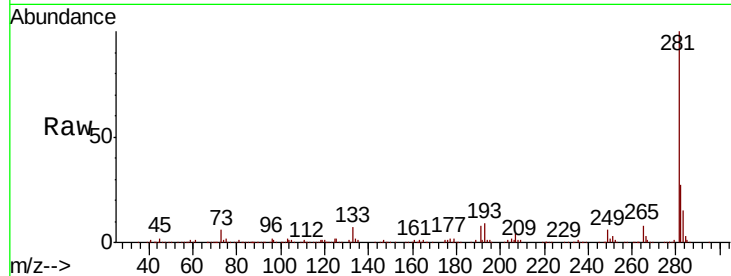




#66
Benzyl Chloride
Concen: 0.036 ppbv
RT: 17.01 min Scan# 4424
Delta R.T. 0.04 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 91 Resp: 844
Ion Ratio Lower Upper
91 100
126 0.0 15.9 23.9#
128 0.0 5.4 8.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.845 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. 0.02 min
Lab File: VL037502.D
Acq: 19 Aug 2021 17:16

Tgt Ion: 95 Resp: 2486254
Ion Ratio Lower Upper
95 100
174 79.7 59.6 89.4
175 5.9 4.6 7.0

