

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080421\
 Data File : VL037337.D
 Acq On : 5 Aug 2021 10:38
 Operator : SY/AP
 Sample : M3239-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

MMDadoda
 8/5/2021 1:41:34 PM

Quant Time: Aug 05 11:13:43 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	984859	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3291009	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2718446	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1849934	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	37373	0.187	ppbv	99
3) Chlorodifluoromethane	2.98	51	121892	0.609	ppbv #	91
4) Chloromethane	3.13	50	32937	0.459	ppbv	94
9) Propene	3.00	41	58140m	0.803	ppbv	
10) Heptane	8.11	43	17248m	0.102	ppbv	
11) Trichlorofluoromethane	3.94	101	35631	0.194	ppbv	96
13) Ethanol	3.61	45	254327	23.320	ppbv	96
15) Acetone	3.85	43	466629	4.362	ppbv	99
19) Isopropyl Alcohol	3.99	45	160526m	2.711	ppbv	
20) Methylene Chloride	4.34	84	251002	2.834	ppbv	95
26) Hexane	5.68	57	267564	1.719	ppbv #	49
27) Carbon Disulfide	4.54	76	24052m	0.190	ppbv	
30) Cyclohexane	7.12	84	12341m	0.103	ppbv	
34) 2-Butanone	5.25	43	37081	0.325	ppbv #	88
35) Carbon Tetrachloride	7.01	117	9910m	0.050	ppbv	
36) Benzene	6.88	78	80815m	0.273	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	103535	0.211	ppbv #	91
52) Tetrachloroethene	11.20	164	7308m	0.057	ppbv	
53) Toluene	9.80	91	395718	1.132	ppbv	99
59) m/p-Xylene	12.95	91	70728m	0.210	ppbv	

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

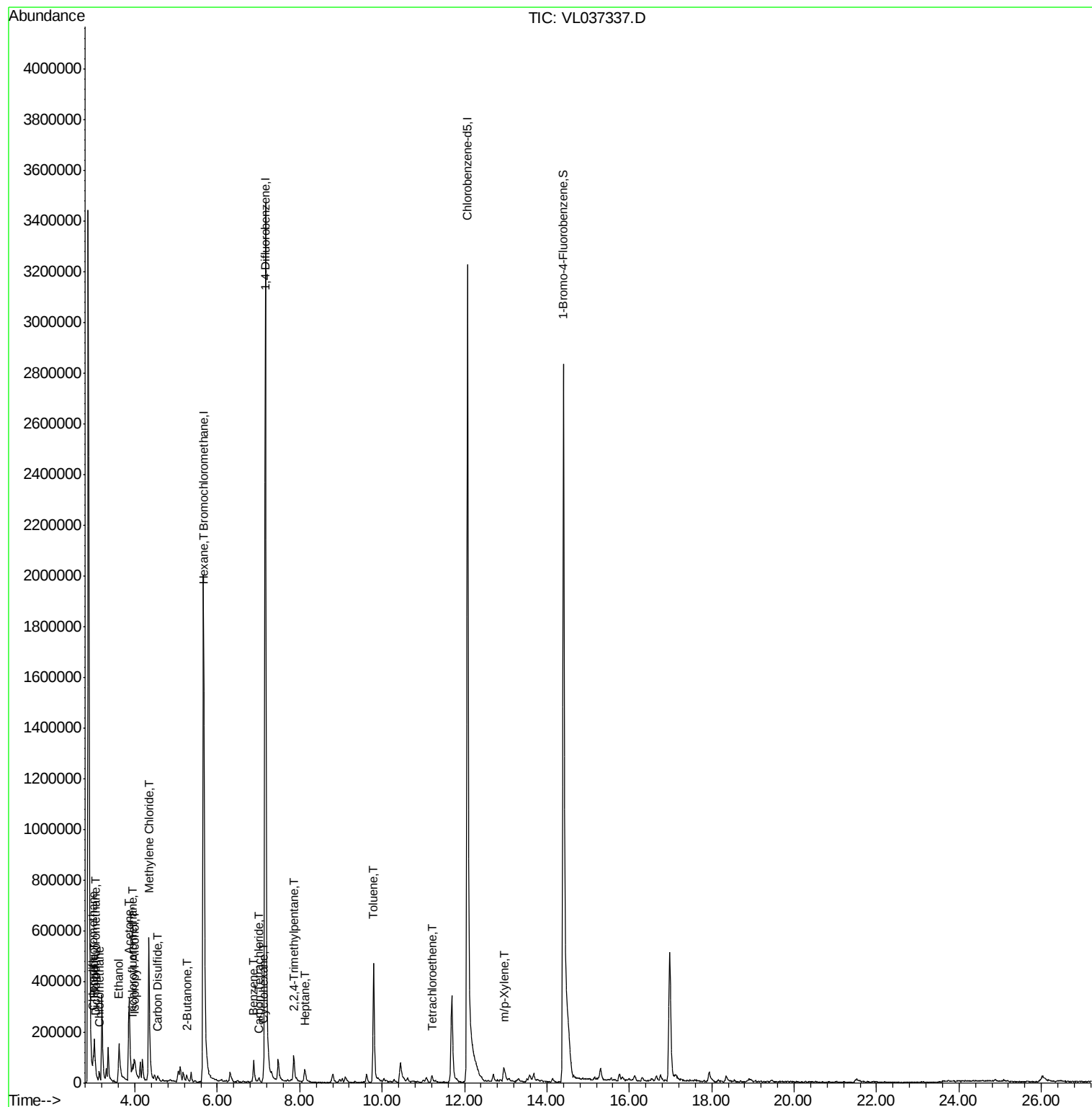
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080421\
Data File : VL037337.D
Acq On : 5 Aug 2021 10:38
Operator : SY/AP
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

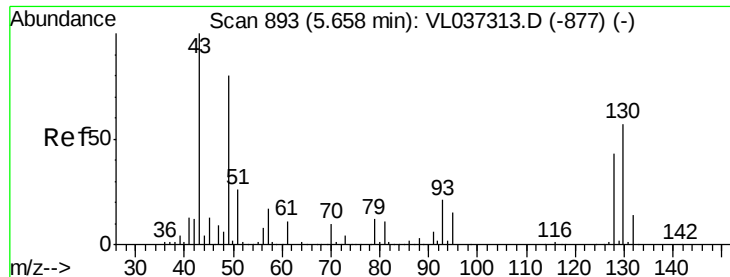
Instrument :
MSVOA_L
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Quant Time: Aug 05 11:13:43 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 04 22:53:01 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.00 min

Lab File: VL037337.D

Acq: 5 Aug 2021 10:38

Instrument :

MSVOA_L

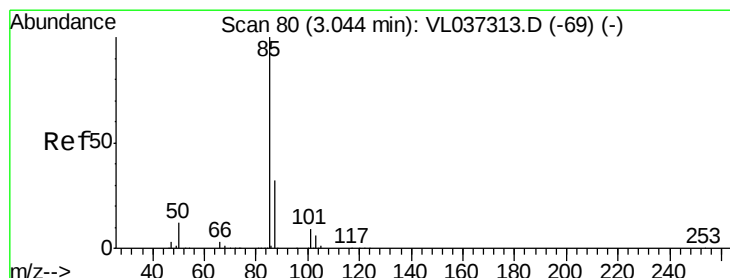
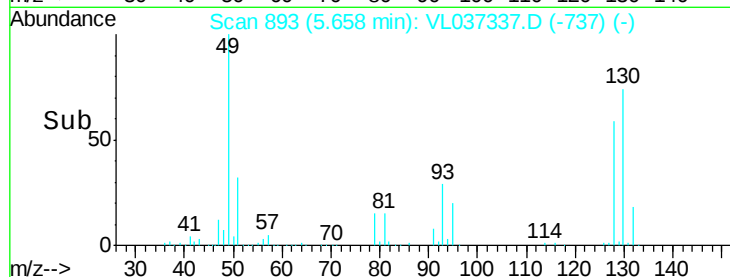
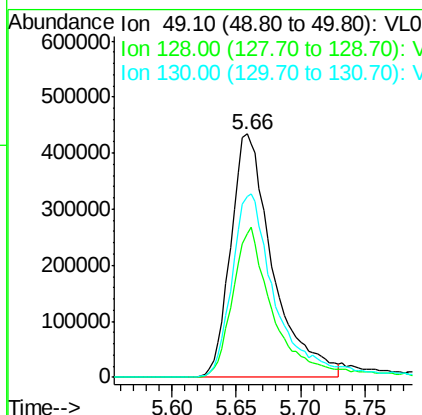
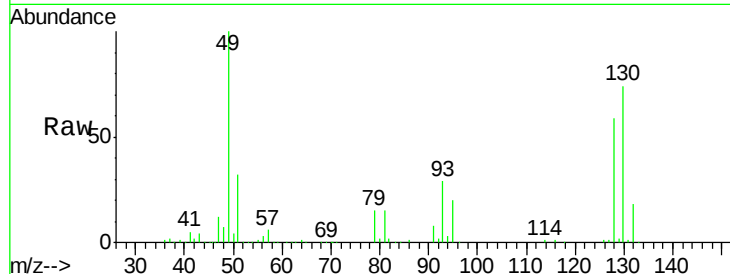
ClientSampled :

QA1

Tot Ion:	49	Resp:	984859
Ion Ratio	Lower	Upper	
49	100		
128	62.4	29.8	89.5
130	81.2	37.5	112.7

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#2

Dichlorodifluoromethane

Concen: 0.187 ppbv

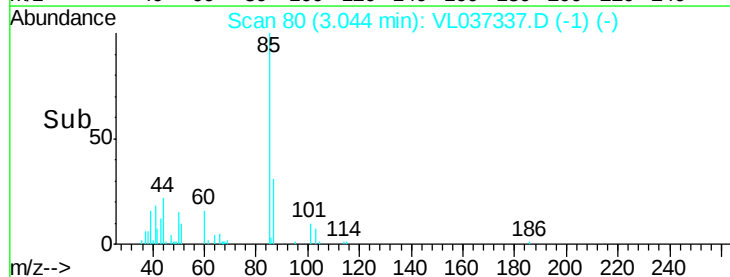
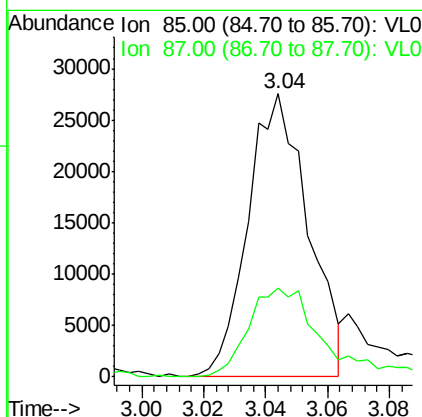
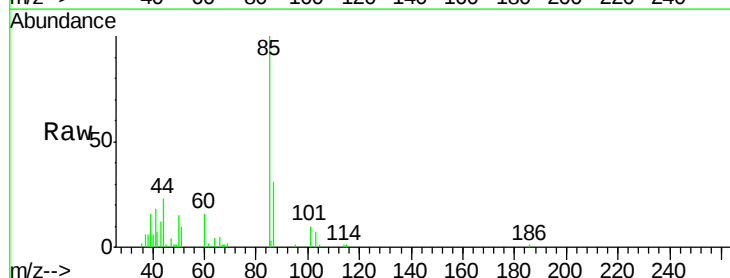
RT: 3.04 min Scan# 80

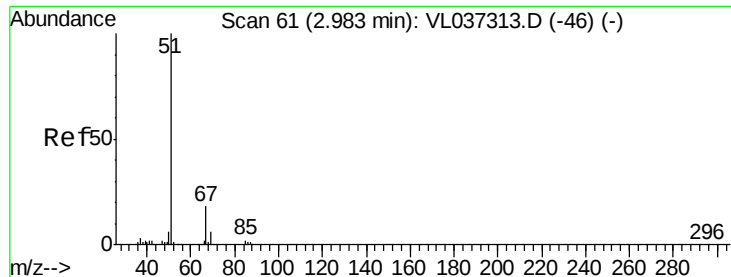
Delta R.T. 0.00 min

Lab File: VL037337.D

Acq: 5 Aug 2021 10:38

Tgt Ion:	85	Resp:	37373
Ion Ratio	Lower	Upper	
85	100		
87	31.4	25.5	38.3





#3

Chlorodifluoromethane

Concen: 0.609 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL037337.D

Acq: 5 Aug 2021 10:38

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 51 Resp: 121892

Ion Ratio Lower Upper

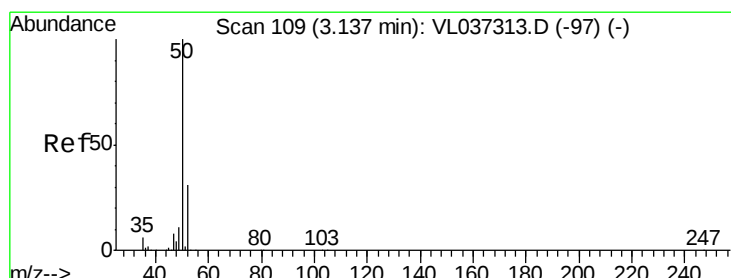
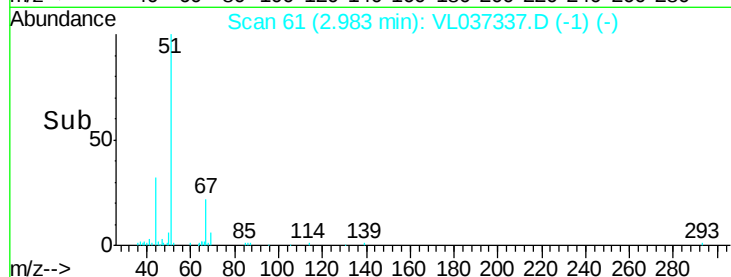
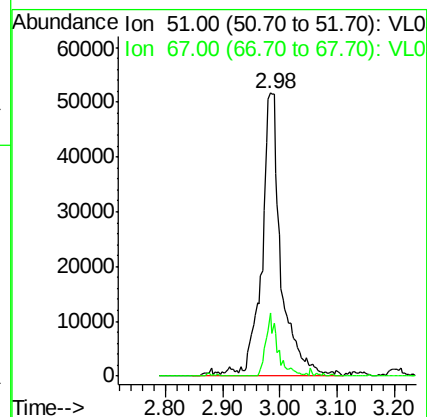
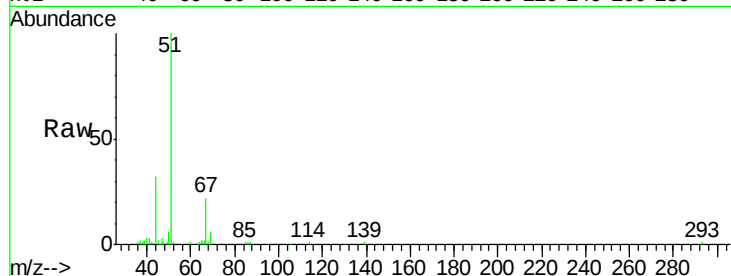
51 100

67 13.9 14.2 21.2#

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#4

Chloromethane

Concen: 0.459 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL037337.D

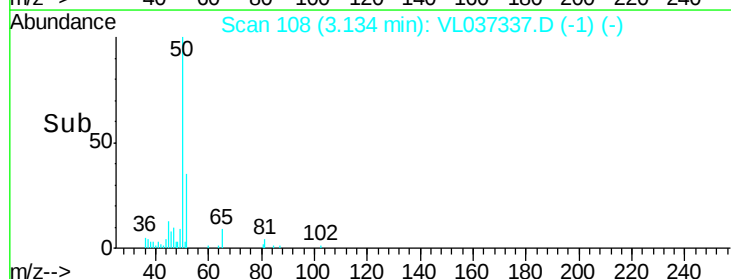
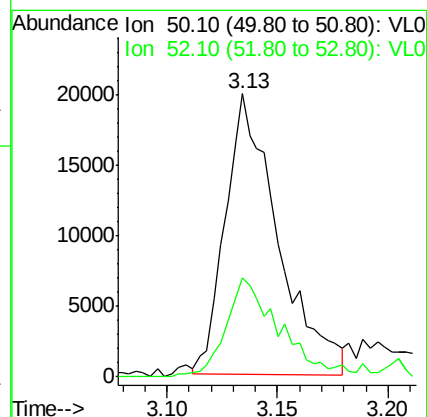
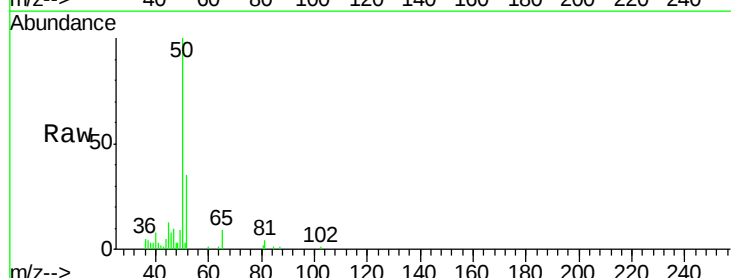
Acq: 5 Aug 2021 10:38

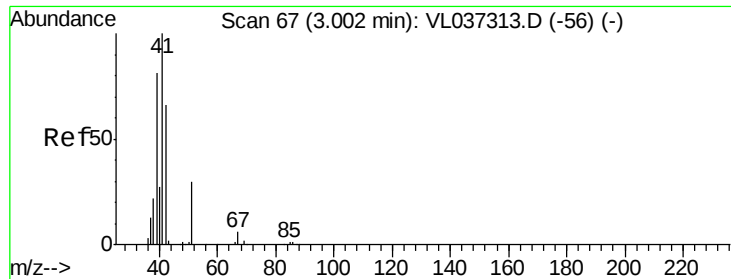
Tgt Ion: 50 Resp: 32937

Ion Ratio Lower Upper

50 100

52 34.7 25.1 37.7





#9

Propene

Concen: 0.803 ppbv m

RT: 3.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VL037337.D

Acq: 5 Aug 2021 10:38

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 41 Resp: 58140

Ion Ratio Lower Upper

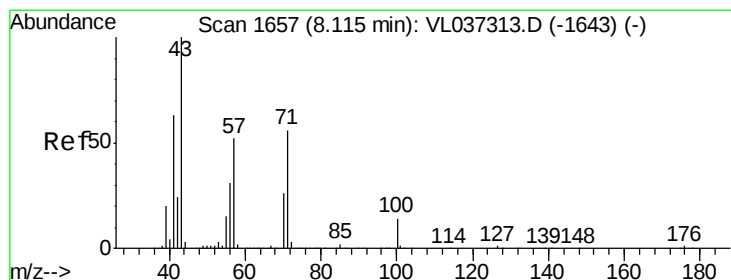
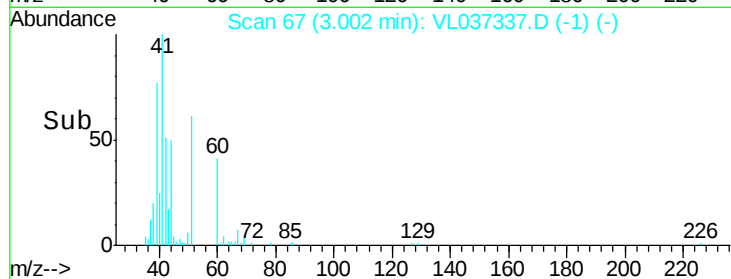
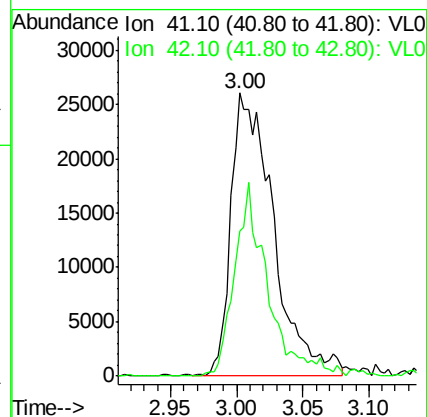
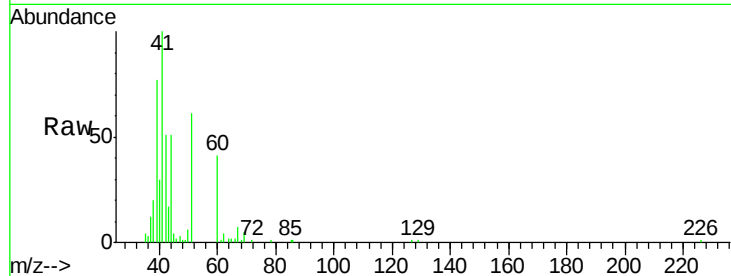
41 100

42 154.7 53.8 80.8#

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#10

Heptane

Concen: 0.102 ppbv m

RT: 8.11 min Scan# 1656

Delta R.T. -0.00 min

Lab File: VL037337.D

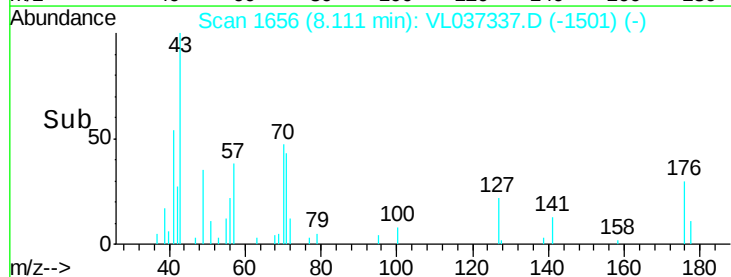
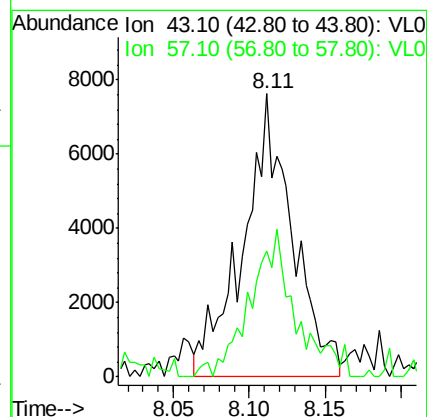
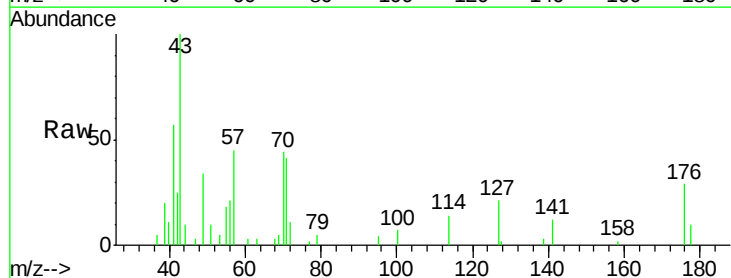
Acq: 5 Aug 2021 10:38

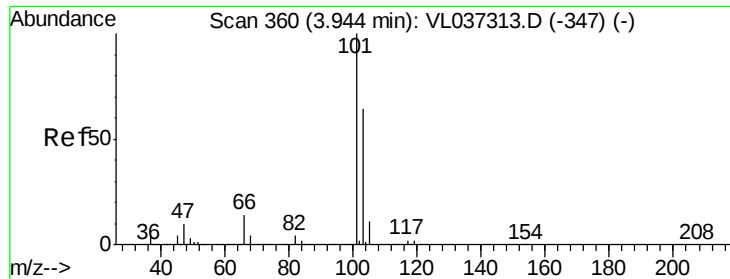
Tgt Ion: 43 Resp: 17248

Ion Ratio Lower Upper

43 100

57 0.0 42.4 63.6#





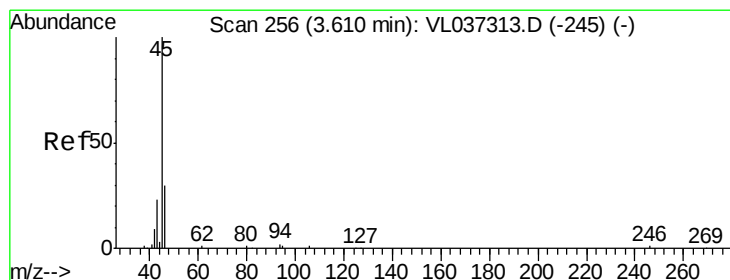
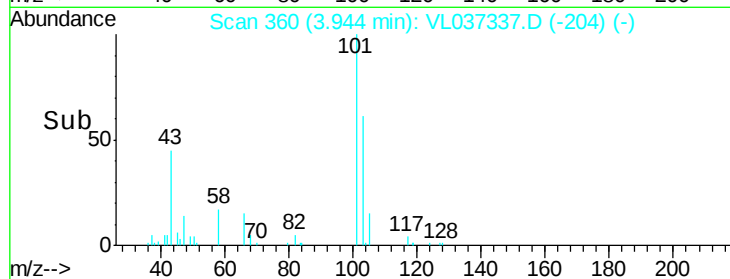
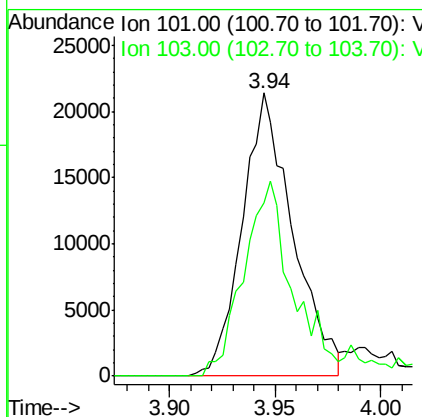
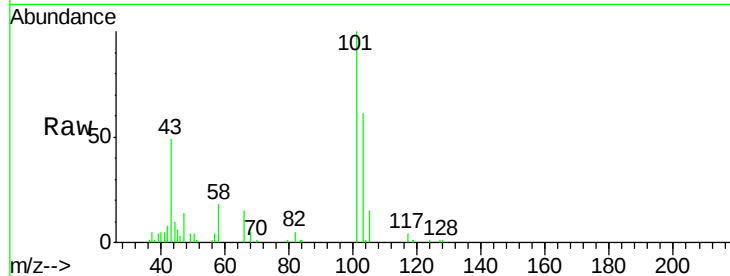
#11
 Trichlorofluoromethane
 Concen: 0.194 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.00 min
 Lab File: VL037337.D
 Acq: 5 Aug 2021 10:38

Instrument :
 MSVOA_L
 ClientSampled :
 OA1

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.0	51.6	77.4

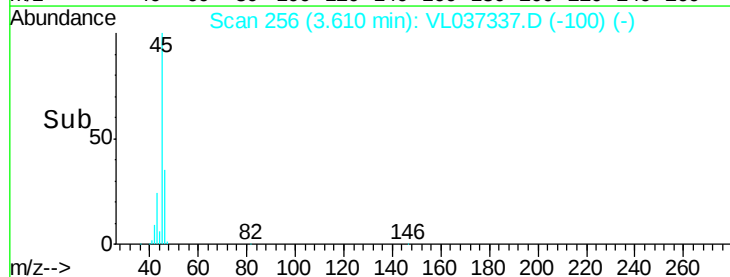
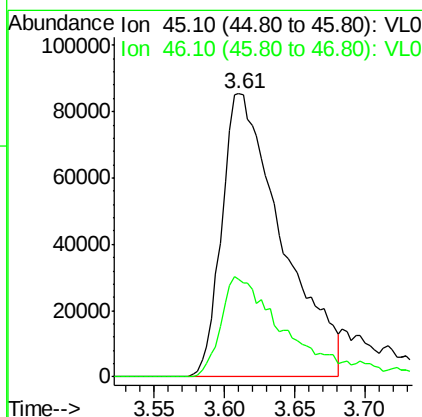
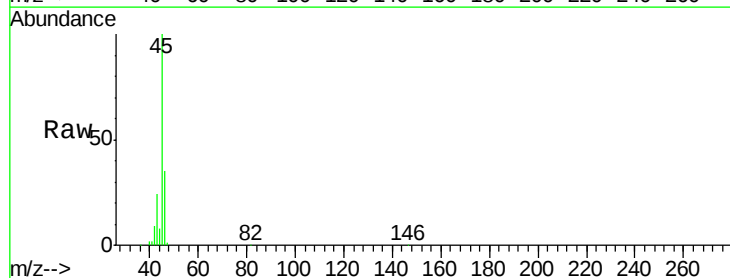
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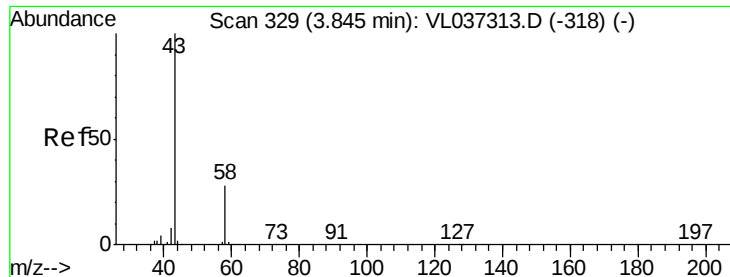
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#13
 Ethanol
 Concen: 23.320 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. 0.00 min
 Lab File: VL037337.D
 Acq: 5 Aug 2021 10:38

Tgt Ion	Ratio	Lower	Upper
45	100		
46	39.1	16.6	66.4





#15

Acetone

Concen: 4.362 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.01 min

Lab File: VL037337.D

Acq: 5 Aug 2021 10:38

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 43 Resp: 466629

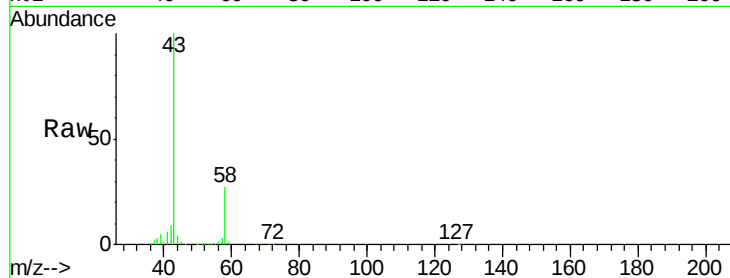
Ion Ratio Lower Upper

43 100

58 32.1 25.3 37.9

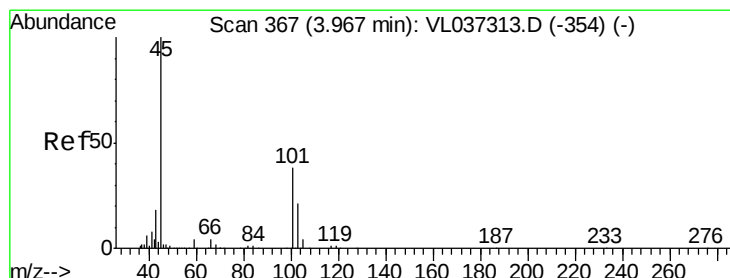
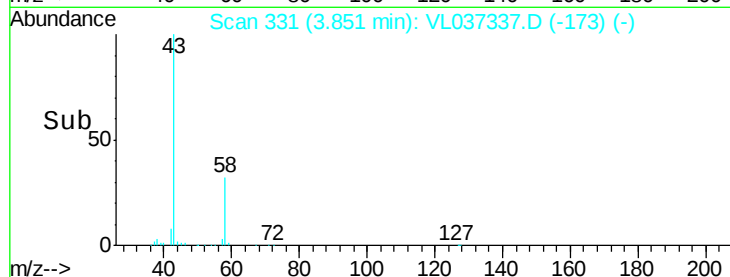
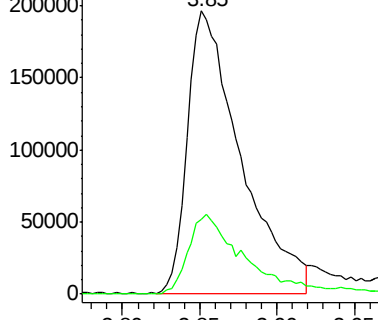
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 2.711 ppbv m

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL037337.D

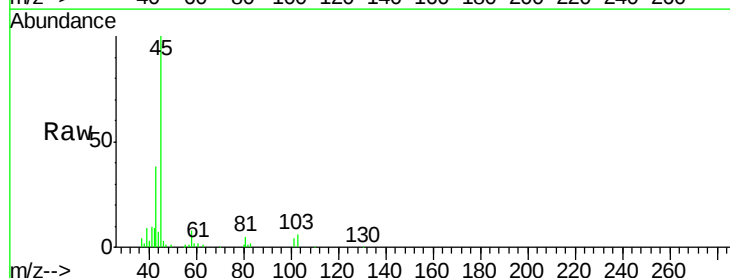
Acq: 5 Aug 2021 10:38

Tgt Ion: 45 Resp: 160526

Ion Ratio Lower Upper

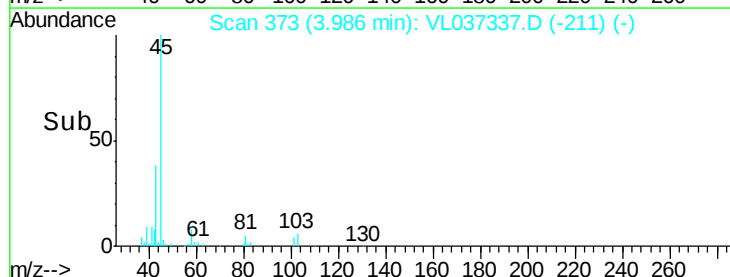
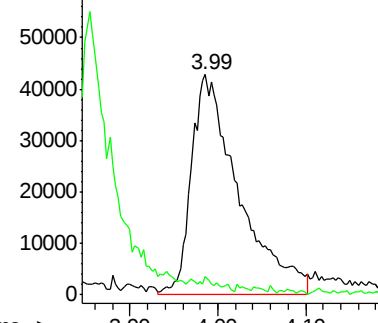
45 100

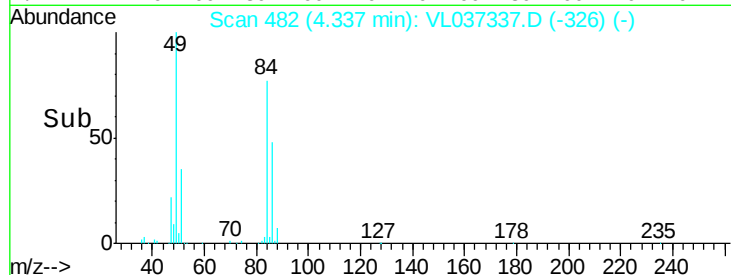
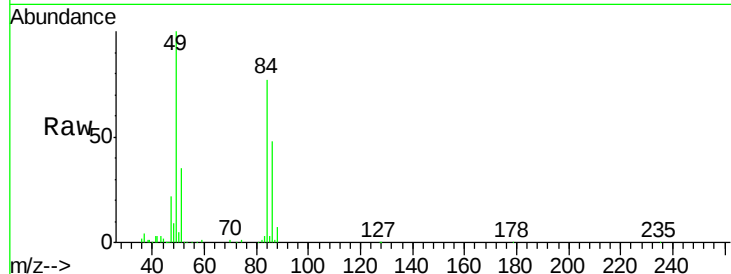
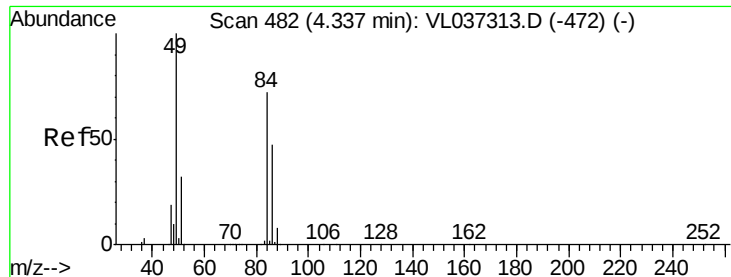
58 5.5 1.8 2.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





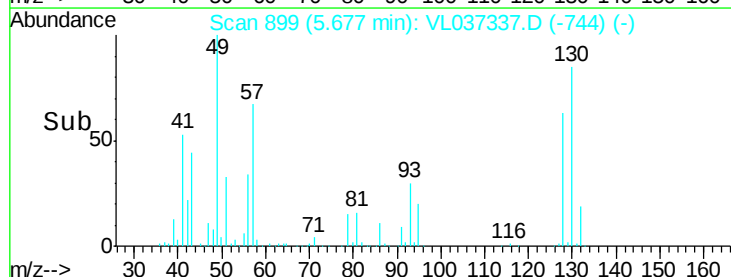
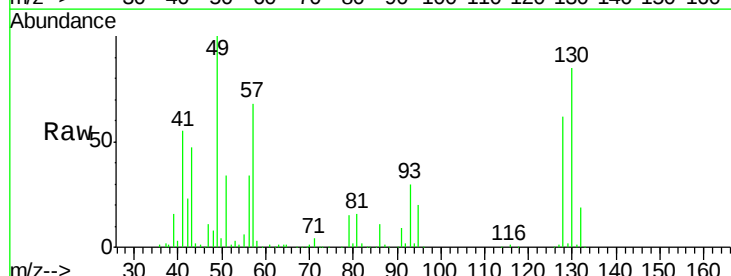
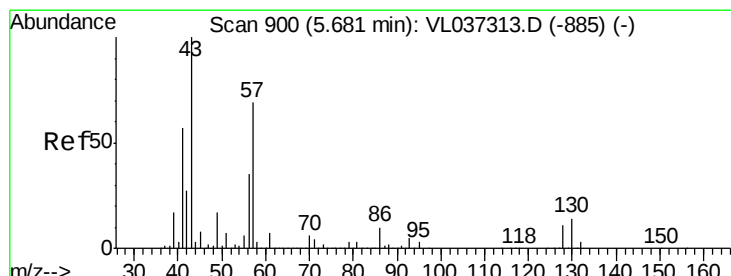
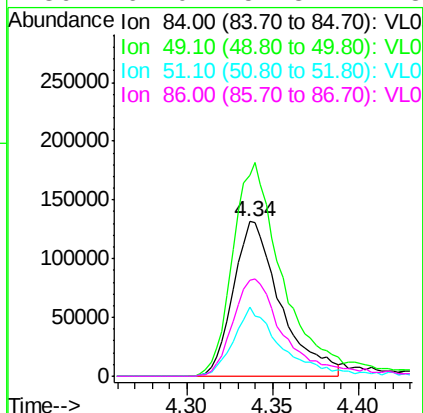
#20
Methvlene Chloride
Concen: 2.834 ppbv
RT: 4.34 min Scan# 482
Delta R.T. 0.00 min
Lab File: VL037337.D
Acq: 5 Aug 2021 10:38

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	129.9	110.4	165.6		
51	44.9	35.8	53.6		
86	62.0	51.8	77.8		

Instrument :
MSVOA_L
ClientSampled :
OA1

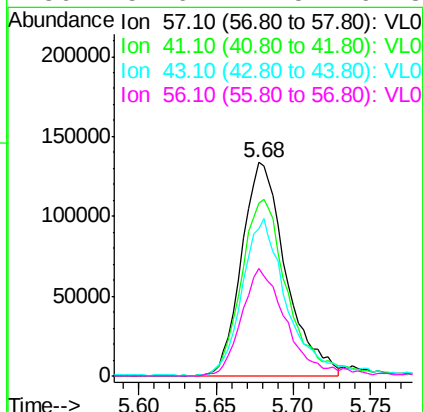
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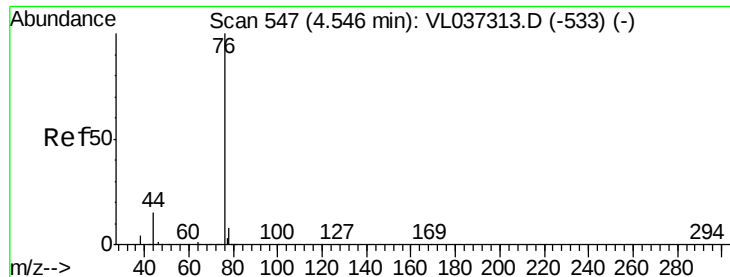
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#26
Hexane
Concen: 1.719 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.00 min
Lab File: VL037337.D
Acq: 5 Aug 2021 10:38

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	87.9	67.5	101.3		
43	75.7	163.0	244.4#		
56	52.6	41.5	62.3		





#27

Carbon Disulfide

Concen: 0.190 ppbv m

RT: 4.54 min Scan# 546

Delta R.T. -0.00 min

Lab File: VL037337.D

Acq: 5 Aug 2021 10:38

Instrument :

MSVOA_L

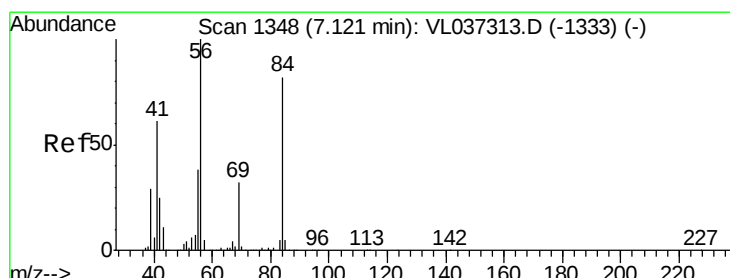
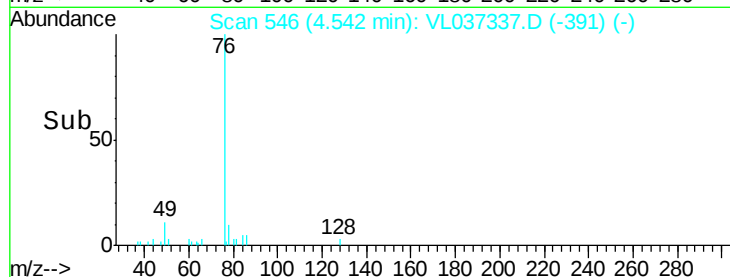
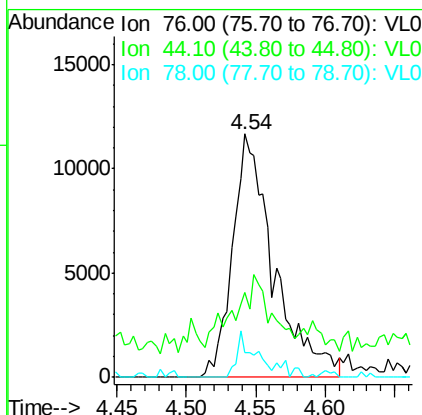
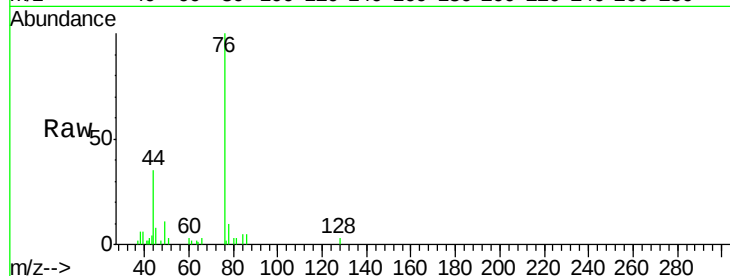
ClientSampleId :

QA1

Tot Ion:	76	Resp:	24052
Ion	Ratio	Lower	Upper
76	100		
44	37.5	13.1	19.7#
78	10.1	8.0	12.0

Manual Integrations
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#30

Cyclohexane

Concen: 0.103 ppbv m

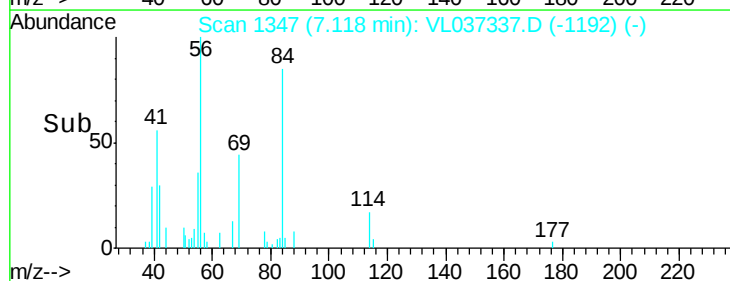
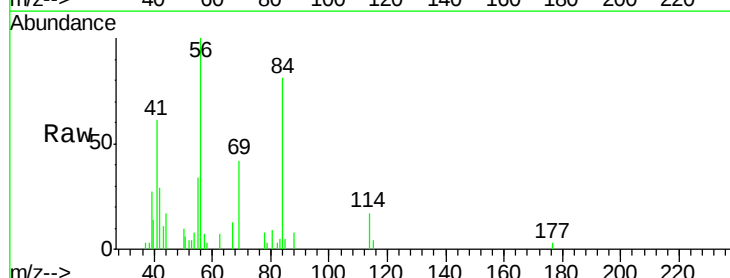
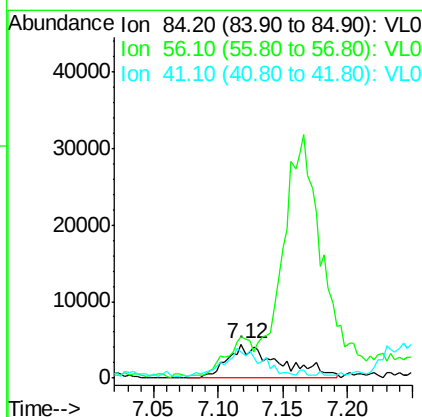
RT: 7.12 min Scan# 1347

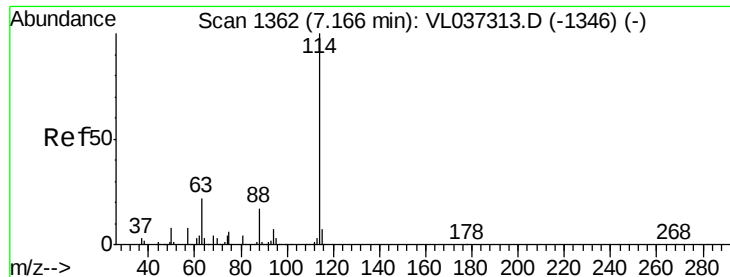
Delta R.T. -0.00 min

Lab File: VL037337.D

Acq: 5 Aug 2021 10:38

Tgt Ion:	84	Resp:	12341
Ion	Ratio	Lower	Upper
84	100		
56	0.0	105.2	157.8#
41	61.3	61.3	91.9#





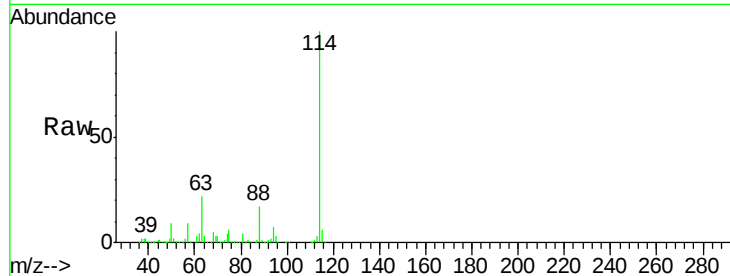
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VL037337.D
 Acq: 5 Aug 2021 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

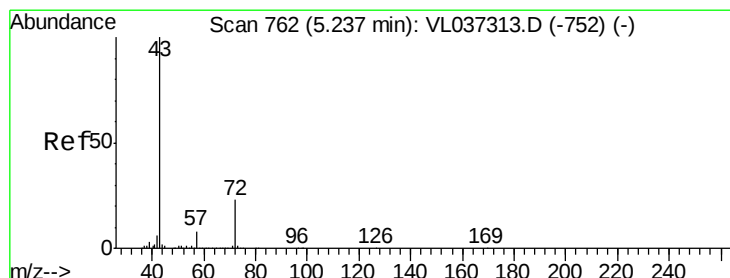
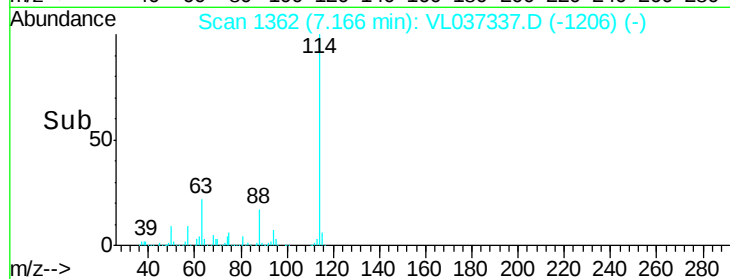
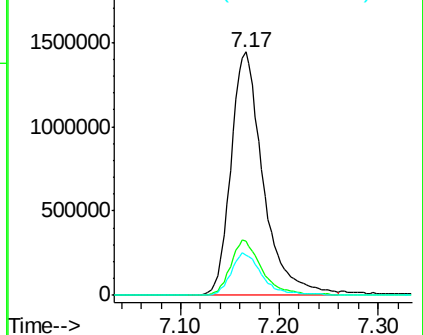
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.6	18.1	27.1
88	17.2	13.8	20.8

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 8/5/2021 1:41:34 PM

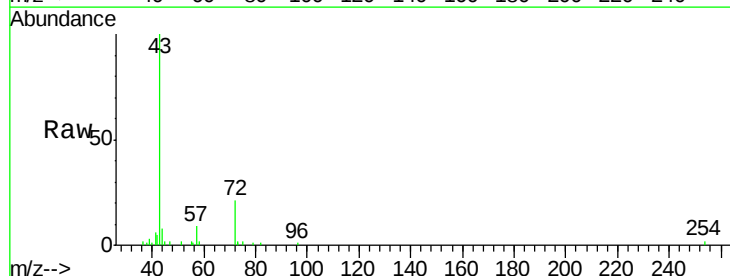


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

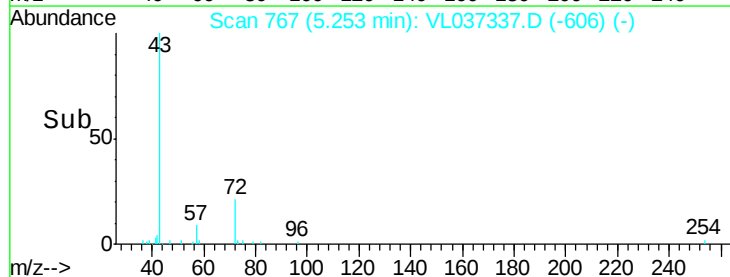
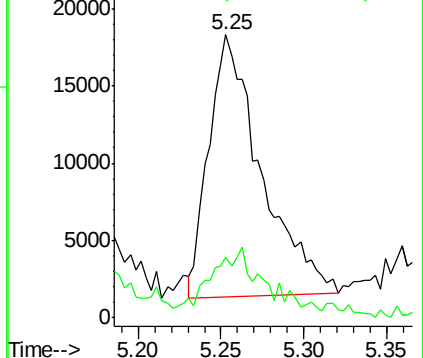


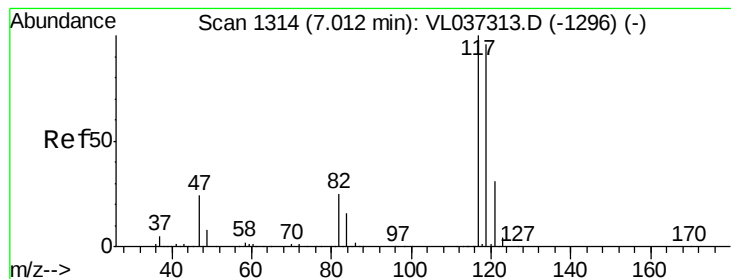
#34
 2-Butanone
 Concen: 0.325 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.02 min
 Lab File: VL037337.D
 Acq: 5 Aug 2021 10:38

Tgt Ion	Ratio	Lower	Upper
43	100		
72	31.6	20.3	30.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.050 ppbv m

RT: 7.01 min Scan# 1314

Delta R.T. 0.00 min

Lab File: VL037337.D

Acq: 5 Aug 2021 10:38

Instrument :

MSVOA_L

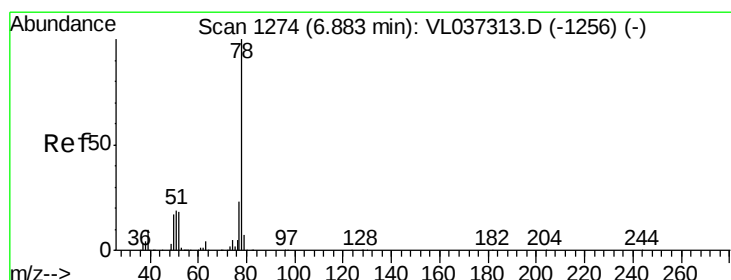
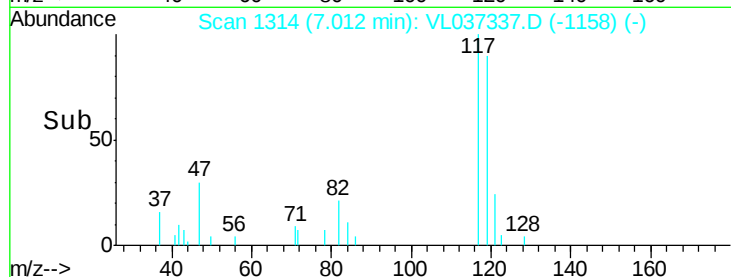
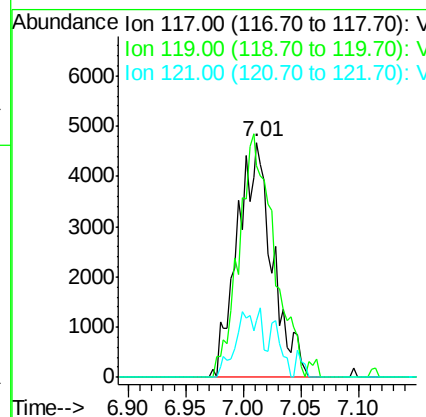
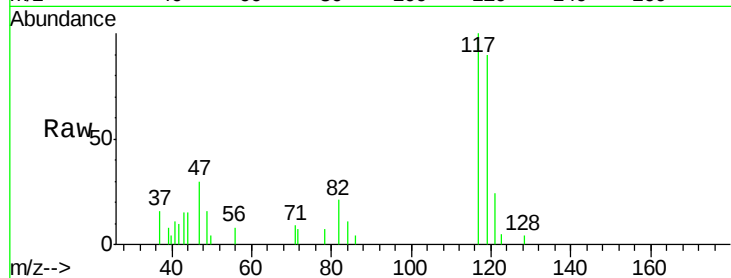
ClientSampleId :

QA1

Tot Ion	Ratio	Lower	Upper
117	100		
119	89.9	76.6	114.8
121	24.2	24.9	37.3#

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8/5/2021 1:41:34 PM



#36

Benzene

Concen: 0.273 ppbv m

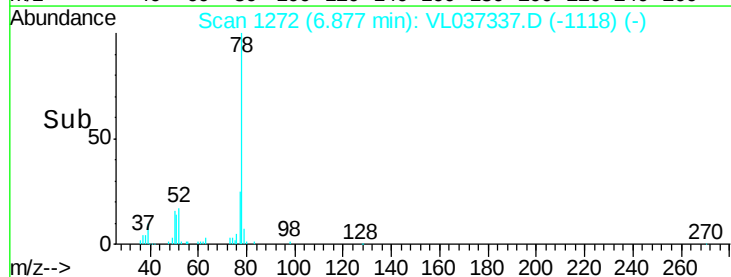
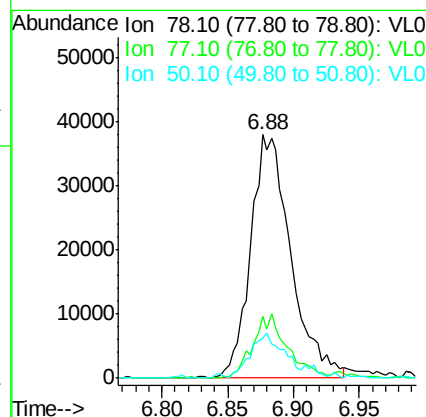
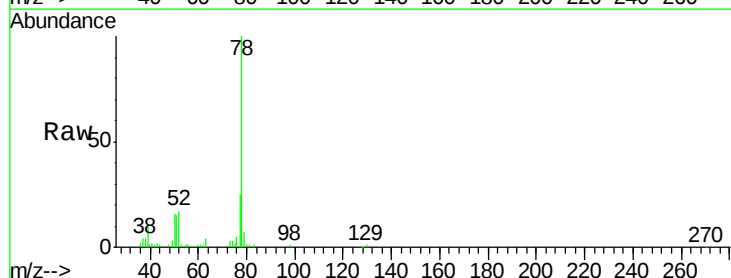
RT: 6.88 min Scan# 1272

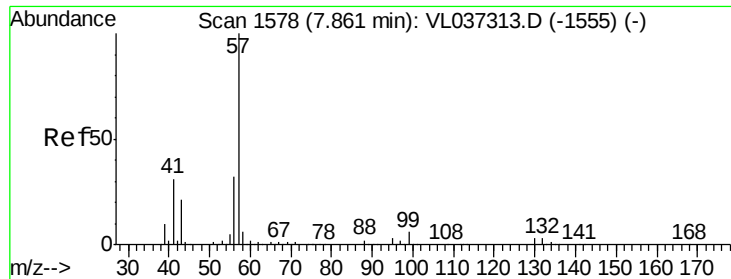
Delta R.T. -0.01 min

Lab File: VL037337.D

Acq: 5 Aug 2021 10:38

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.3	18.7	28.1
50	16.5	13.7	20.5





#44

2,2,4-Trimethylpentane

Concen: 0.211 ppbv

RT: 7.86 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VL037337.D

Acq: 5 Aug 2021 10:38

Instrument :

MSVOA_L

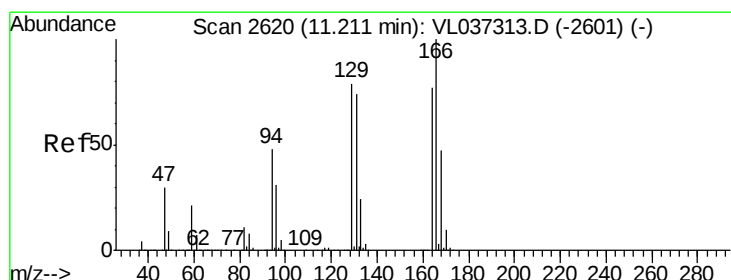
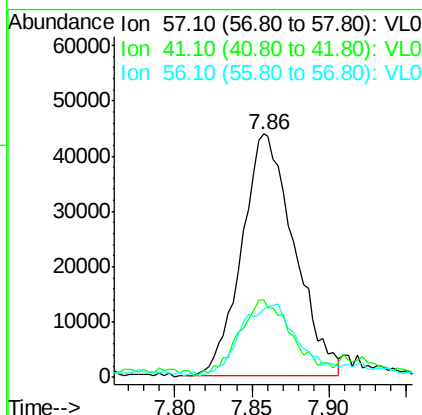
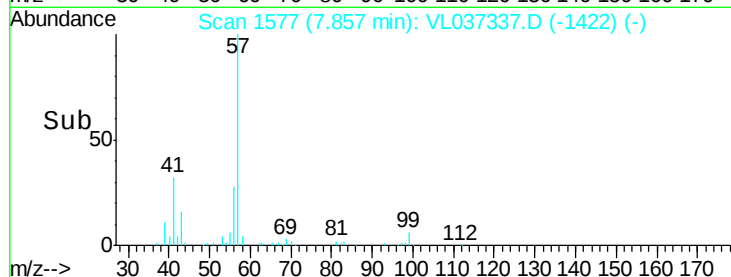
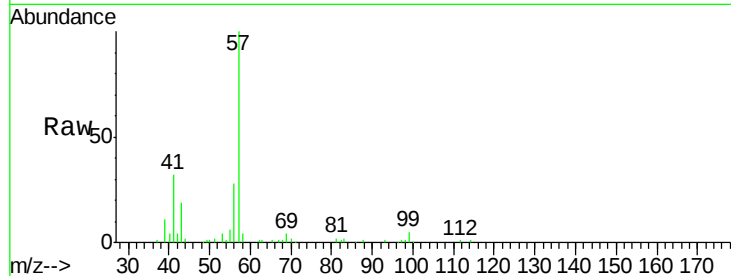
ClientSampled :

QA1

Tot Ion:	57	Resp:	103535
Ion Ratio	Lower	Upper	
57	100		
41	33.0	24.3	36.5
56	38.4	25.0	37.6#

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8/5/2021 1:41:34 PM



#52

Tetrachloroethene

Concen: 0.057 ppbv m

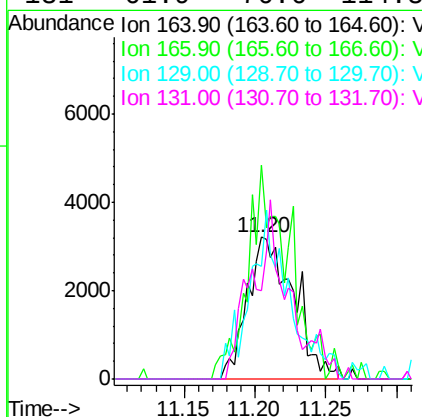
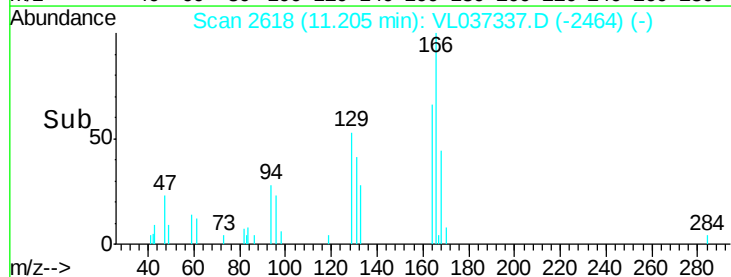
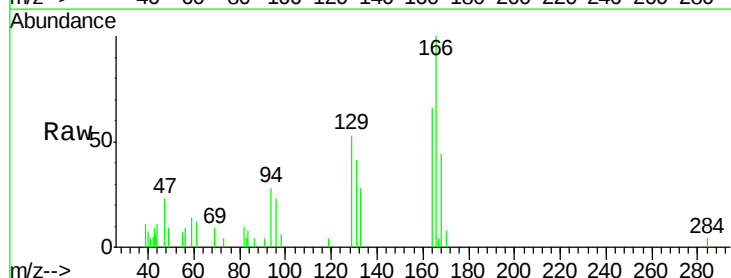
RT: 11.20 min Scan# 2618

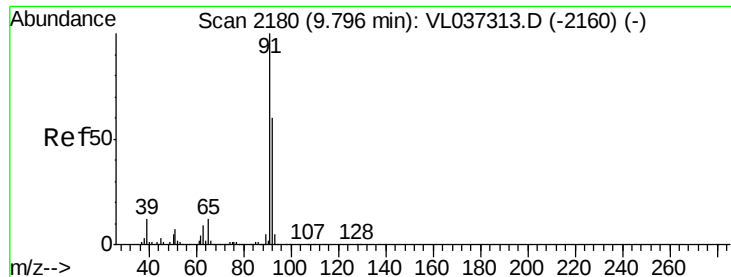
Delta R.T. -0.01 min

Lab File: VL037337.D

Acq: 5 Aug 2021 10:38

Tgt Ion:	164	Resp:	7308
Ion Ratio	Lower	Upper	
164	100		
166	150.7	103.4	155.2
129	79.1	82.2	123.2#
131	61.9	76.6	114.8#





#53

Toluene

Concen: 1.132 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL037337.D

Acq: 5 Aug 2021 10:38

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 91 Resp: 395718

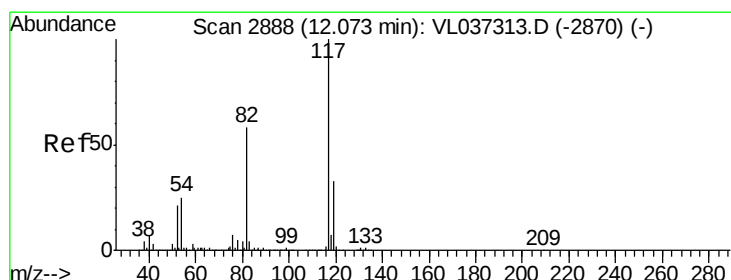
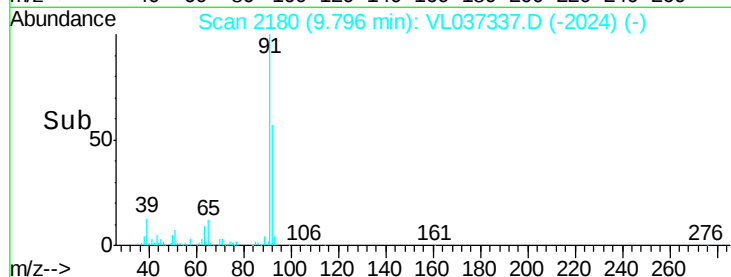
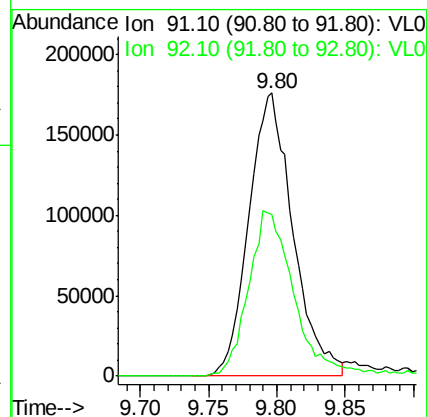
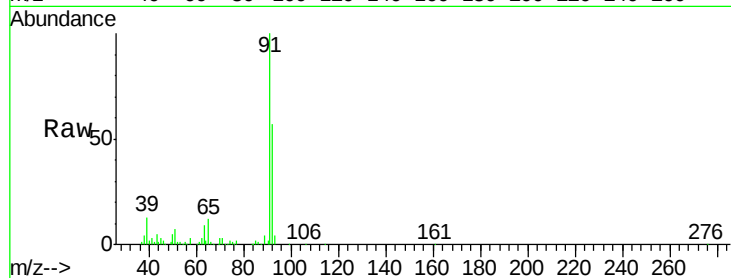
Ion Ratio Lower Upper

91 100

92 62.0 48.8 73.2

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8/5/2021 1:41:34 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VL037337.D

Acq: 5 Aug 2021 10:38

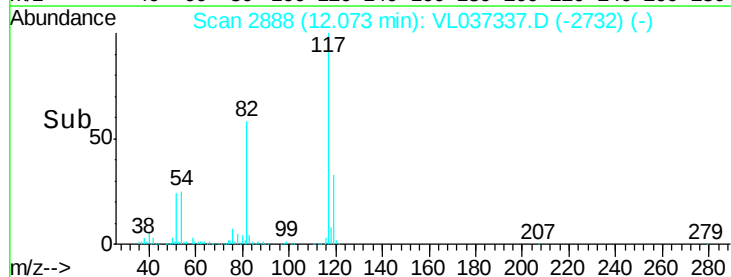
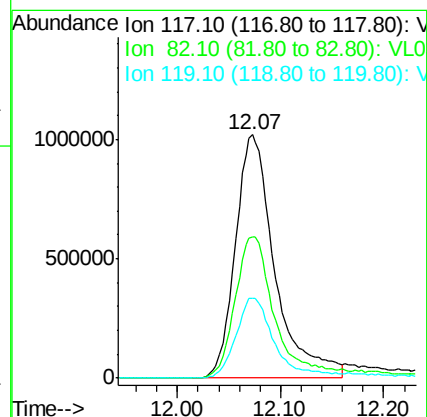
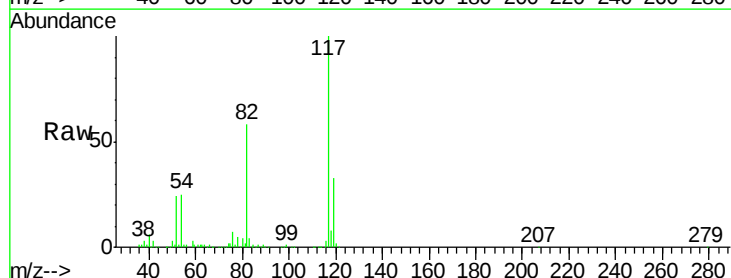
Tgt Ion: 117 Resp: 2718446

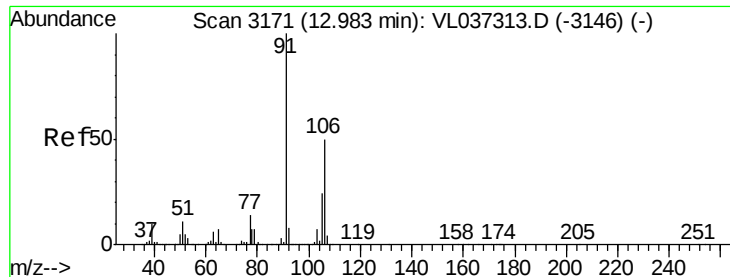
Ion Ratio Lower Upper

117 100

82 64.1 50.3 75.5

119 36.5 48.2 72.2#





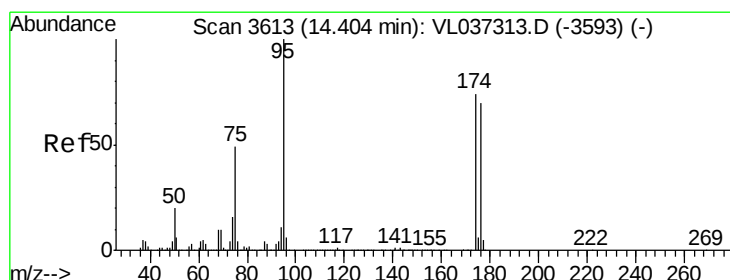
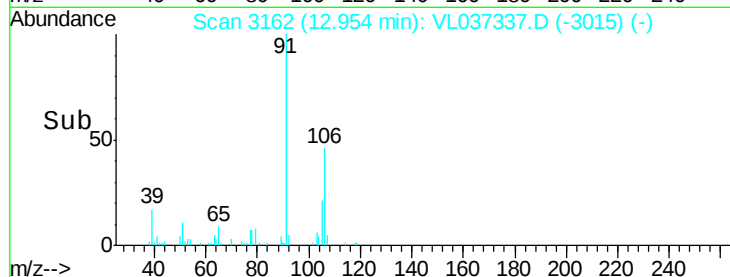
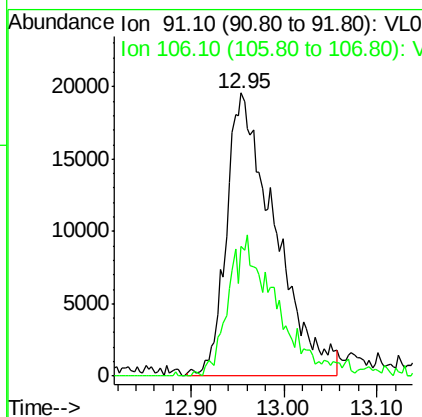
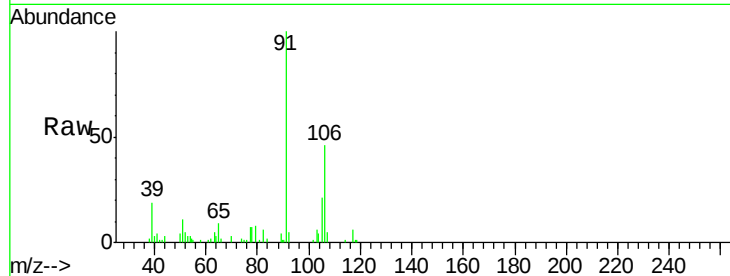
#59
m/p-Xylene
Concen: 0.210 ppbv m
RT: 12.95 min Scan# 3162
Delta R.T. -0.03 min
Lab File: VL037337.D
Acq: 5 Aug 2021 10:38

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tot Ion: 91 Resp: 70728
Ion Ratio Lower Upper
91 100
106 0.0 37.8 56.8#

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8/5/2021 1:41:34 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.962 ppbv
RT: 14.40 min Scan# 3613
Delta R.T. 0.00 min
Lab File: VL037337.D
Acq: 5 Aug 2021 10:38

Tgt Ion: 95 Resp: 1849934
Ion Ratio Lower Upper
95 100
174 82.6 66.9 100.3
175 6.1 5.1 7.7

