

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
 Data File : VL037804.D
 Acq On : 7 Oct 2021 20:25
 Operator : SY/AP
 Sample : M4079-10
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P16

Manual Integrations
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 10/14/2021 1:19:33 PM

Quant Time: Oct 08 10:56:25 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 0
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1126423	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	3454070	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	2972723	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2072071	9.97	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	26824	0.149	ppbv	94
3) Chlorodifluoromethane	2.98	51	25010	0.116	ppbv #	89
9) Propene	3.01	41	23754m	0.298	ppbv	
11) Trichlorofluoromethane	3.94	101	35470m	0.221	ppbv	
13) Ethanol	3.60	45	142412m	21.867	ppbv	
15) Acetone	3.84	43	337308	3.336	ppbv	97
17) tert-Butyl alcohol	4.30	59	46387m	0.445	ppbv	
19) Isopropyl Alcohol	3.97	45	28270m	0.449	ppbv	
20) Methylene Chloride	4.33	84	411558	8.055	ppbv	97
26) Hexane	5.67	57	261941	1.875	ppbv #	44
29) Chloroform	5.74	83	416040	2.083	ppbv	99
34) 2-Butanone	5.24	43	107496	0.771	ppbv #	88
52) Tetrachloroethene	11.20	164	326602	2.845	ppbv	95
53) Toluene	9.79	91	61352m	0.188	ppbv	
58) Ethyl Benzene	12.69	91	104144	0.261	ppbv	99
59) m/p-Xylene	12.95	91	372035m	1.086	ppbv	
60) o-Xylene	13.67	91	120688m	0.368	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	35623m	0.100	ppbv	

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

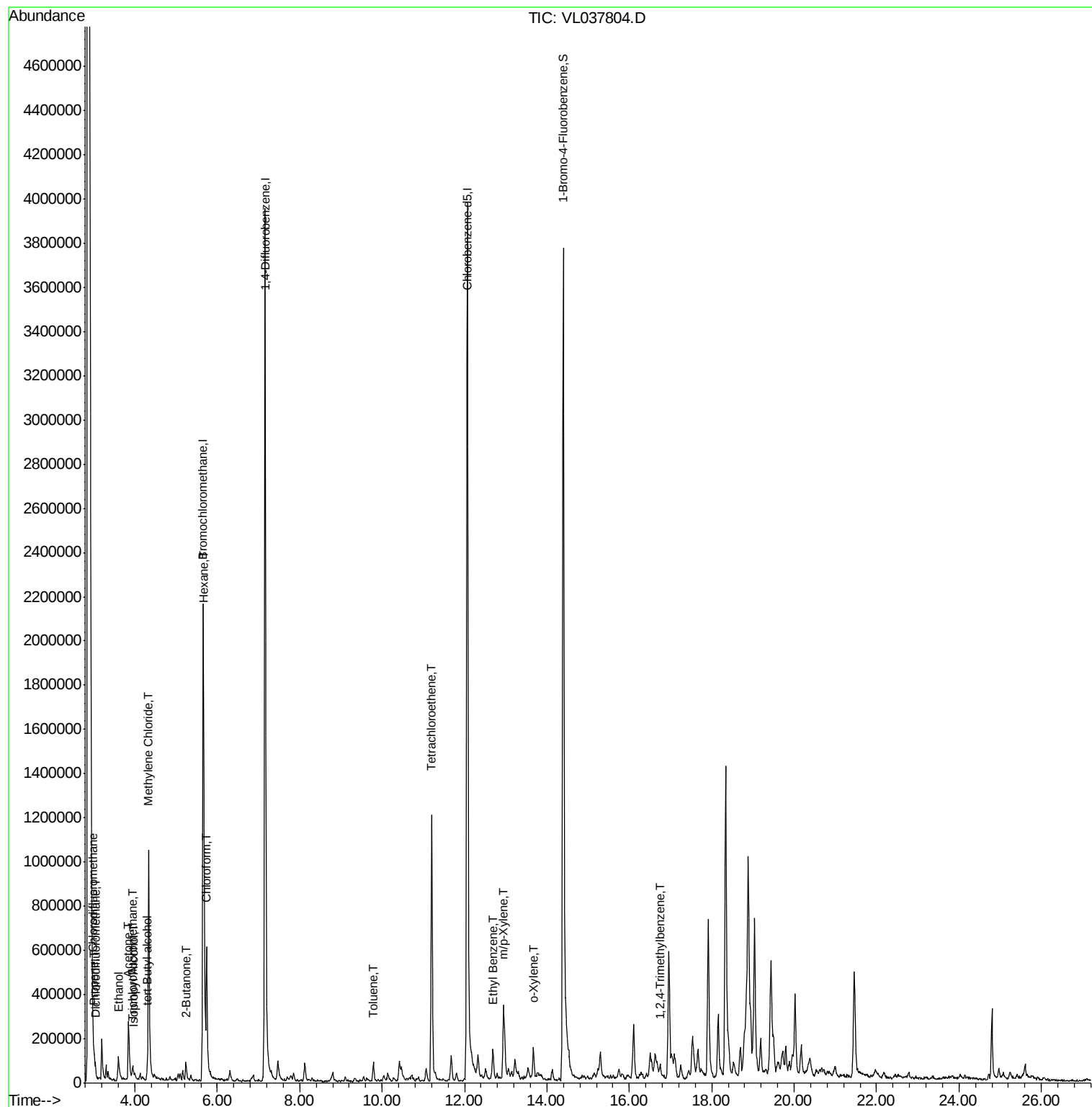
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
Data File : VL037804.D
Acq On : 7 Oct 2021 20:25
Operator : SY/AP
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

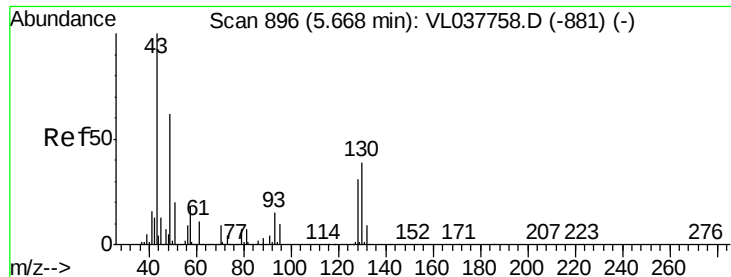
Instrument :
MSVOA_L
ClientSampleId :
C0P16

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Quant Time: Oct 08 10:56:25 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL037804.D

Acq: 7 Oct 2021 20:25

Instrument :

MSVOA_L

ClientSampled :

C0P16

Tgt Ion: 49 Resp: 1126423

Ion Ratio Lower Upper

49 100

128 52.4 27.1 81.3

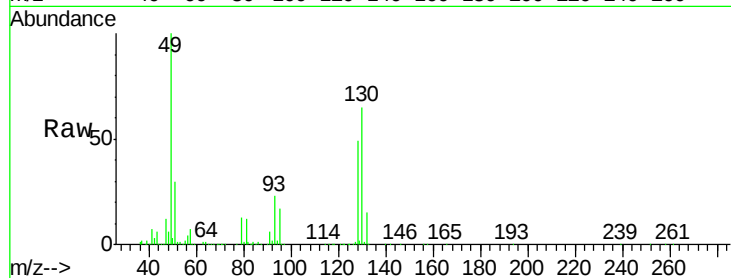
130 67.3 33.2 99.6

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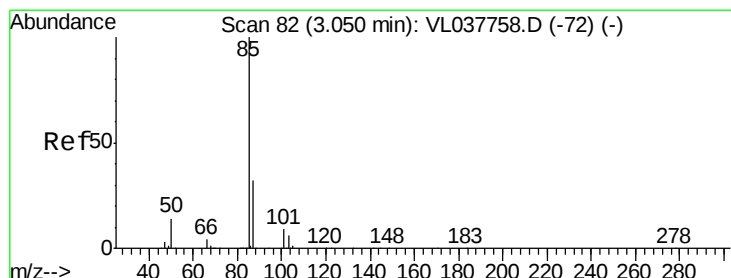
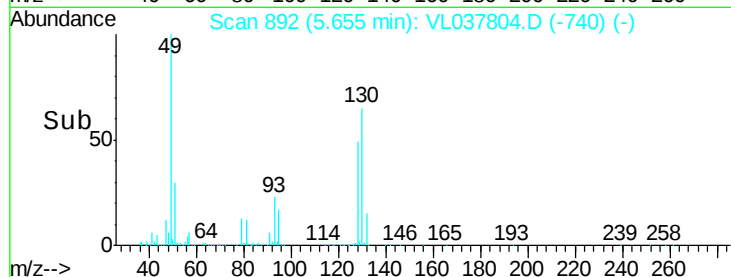
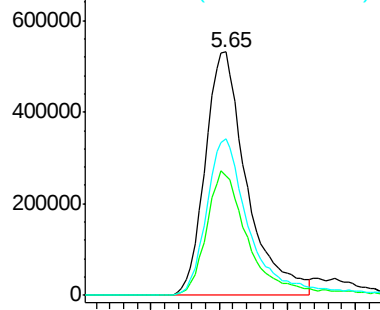
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.149 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL037804.D

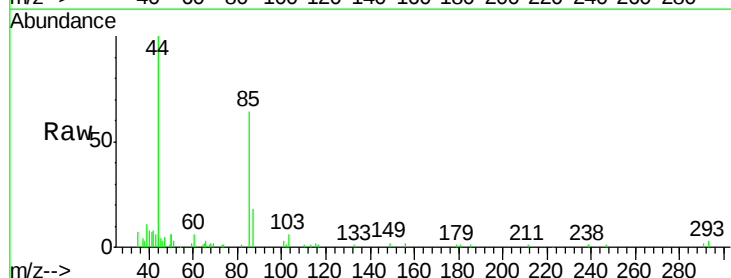
Acq: 7 Oct 2021 20:25

Tgt Ion: 85 Resp: 26824

Ion Ratio Lower Upper

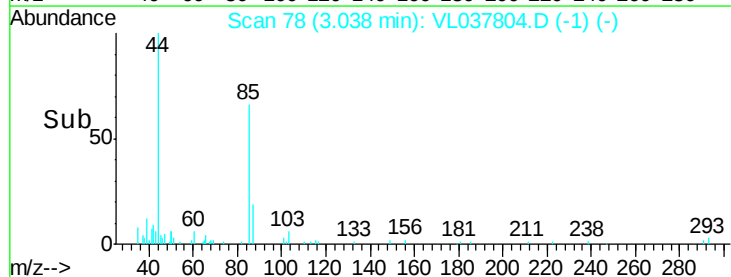
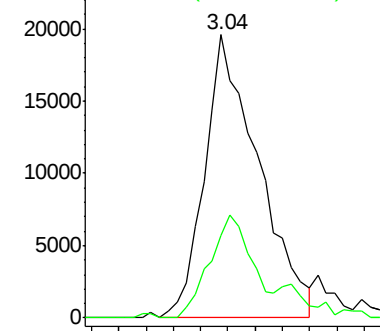
85 100

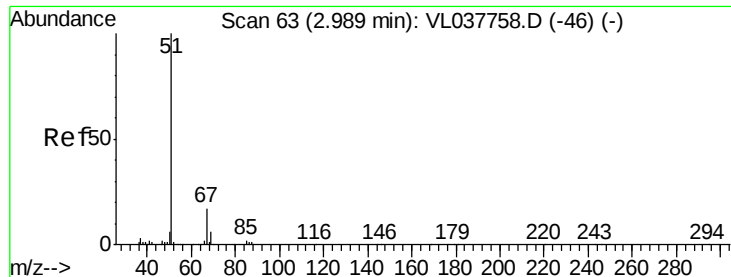
87 29.0 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.116 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037804.D

Acq: 7 Oct 2021 20:25

Instrument :

MSVOA_L

ClientSampleId :

C0P16

Tgt Ion: 51 Resp: 25010

Ion Ratio Lower Upper

51 100

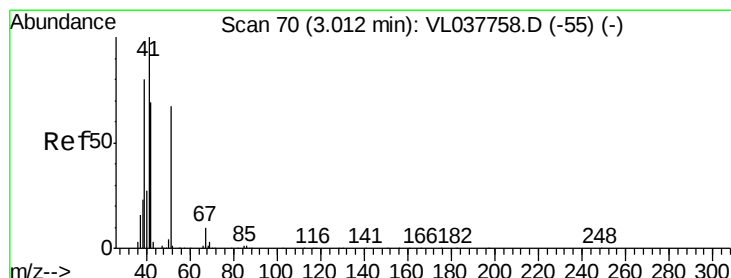
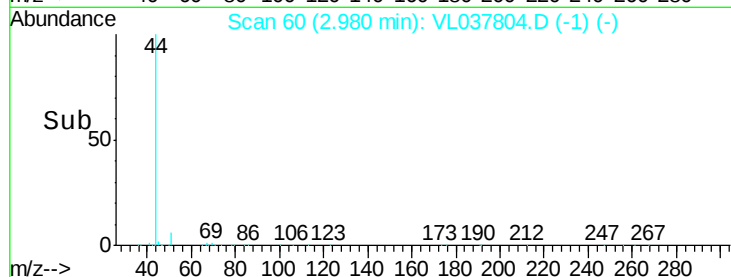
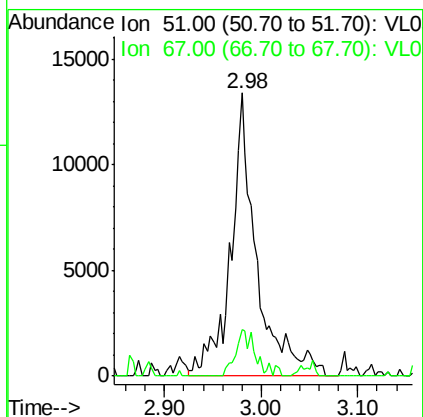
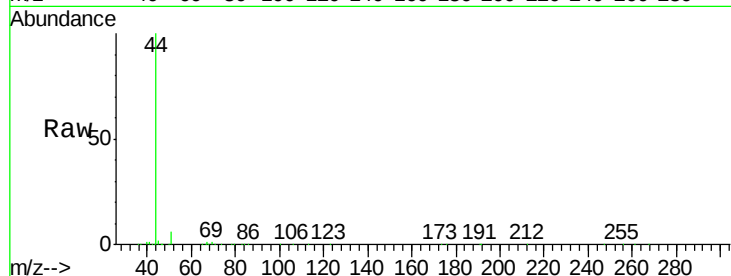
67 12.0 13.5 20.3#

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#9

Propene

Concen: 0.298 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL037804.D

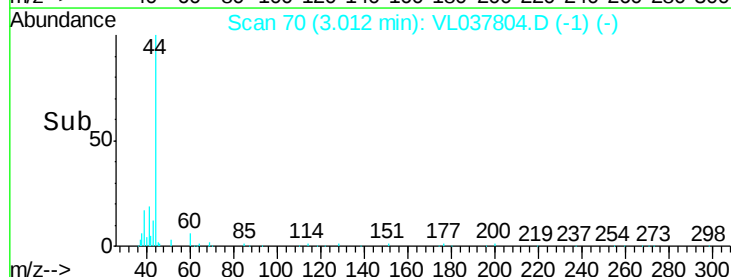
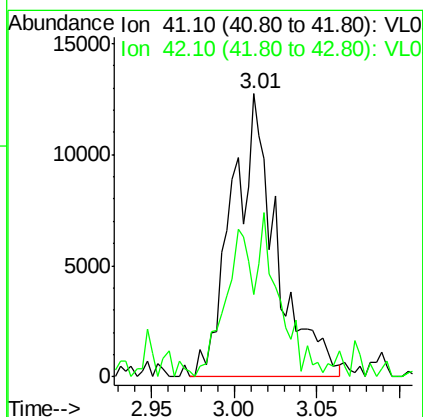
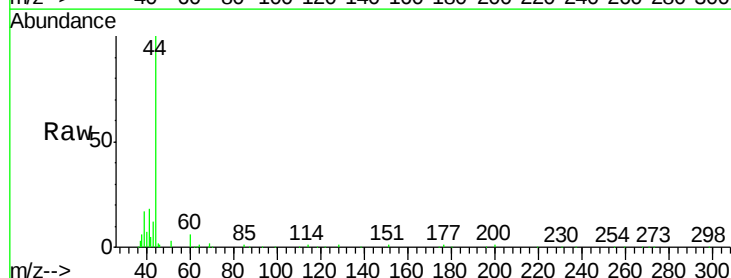
Acq: 7 Oct 2021 20:25

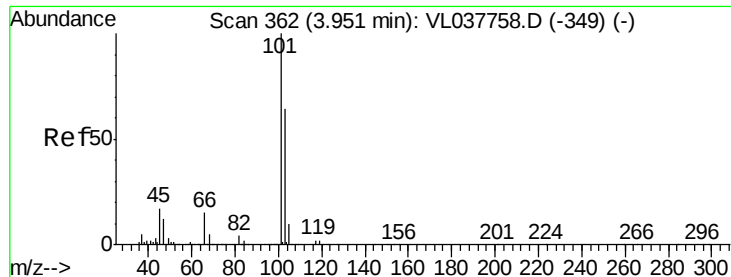
Tgt Ion: 41 Resp: 23754

Ion Ratio Lower Upper

41 100

42 0.0 54.2 81.2#





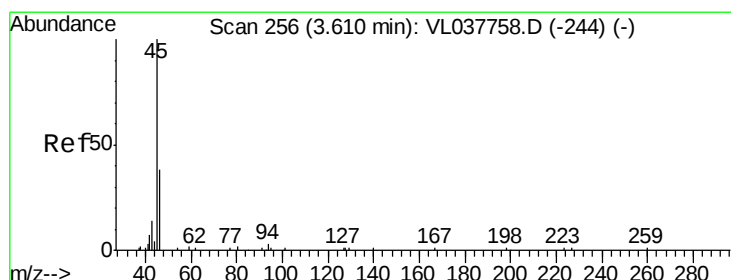
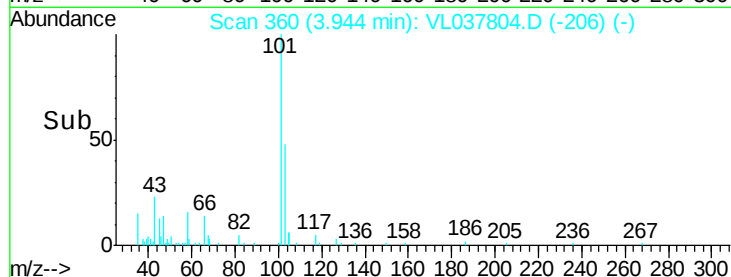
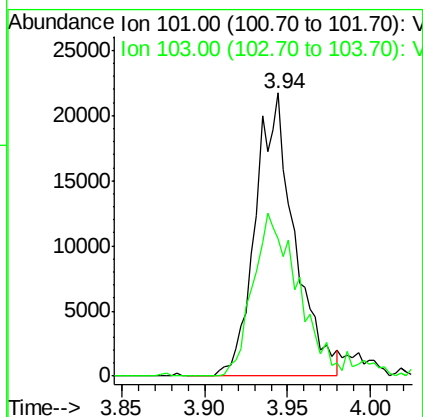
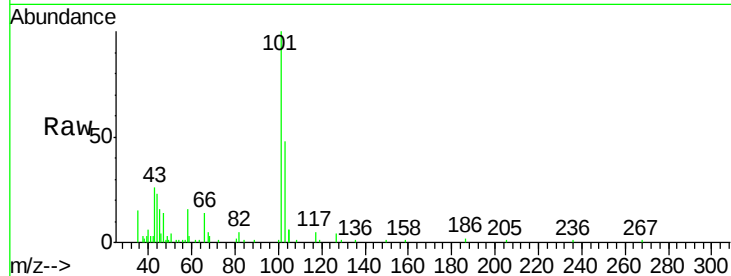
#11
 Trichlorofluoromethane
 Concen: 0.221 ppbv m
 RT: 3.94 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VL037804.D
 Acq: 7 Oct 2021 20:25

Instrument :
 MSVOA_L
 ClientSampled :
 C0P16

Tgt Ion: 101 Resp: 35470
 Ion Ratio Lower Upper
 101 100
 103 48.4 51.5 77.3#

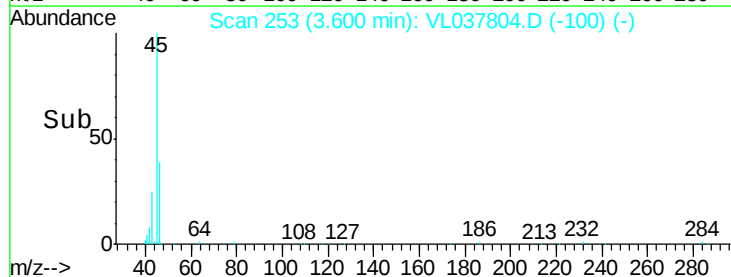
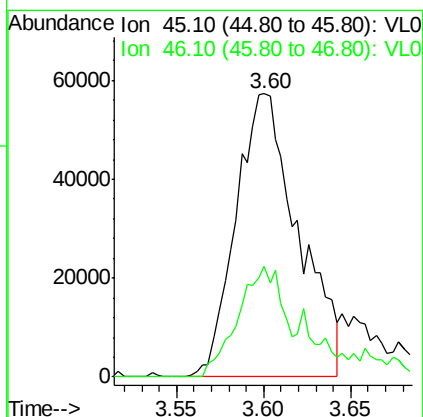
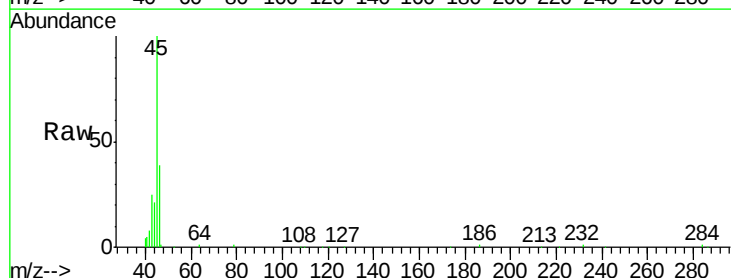
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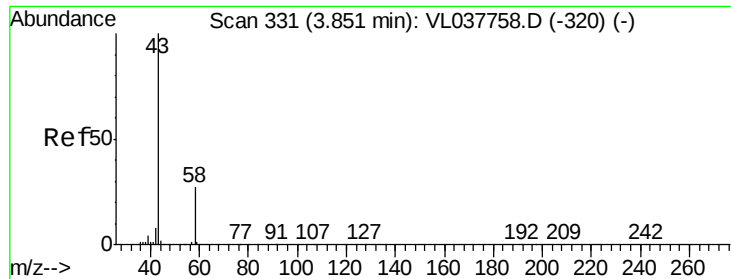
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#13
 Ethanol
 Concen: 21.867 ppbv m
 RT: 3.60 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VL037804.D
 Acq: 7 Oct 2021 20:25

Tgt Ion: 45 Resp: 142412
 Ion Ratio Lower Upper
 45 100
 46 43.9 20.2 81.0





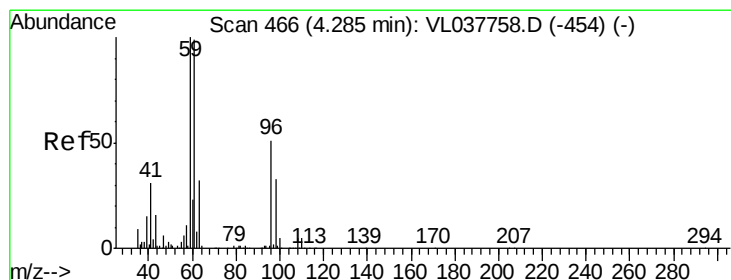
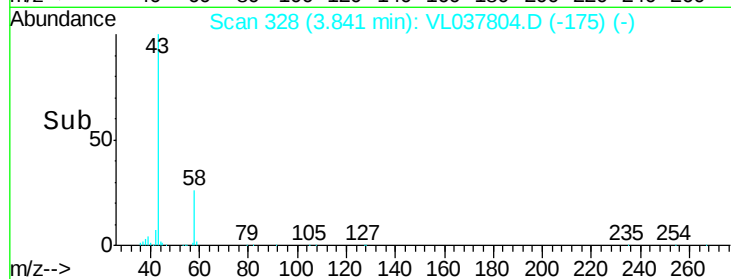
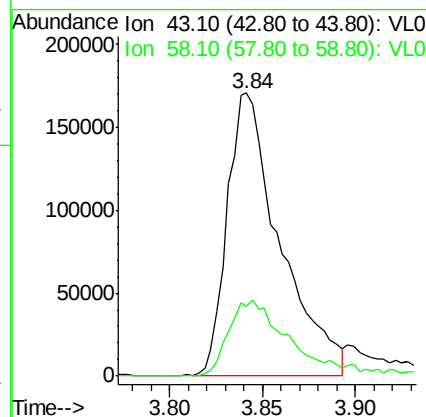
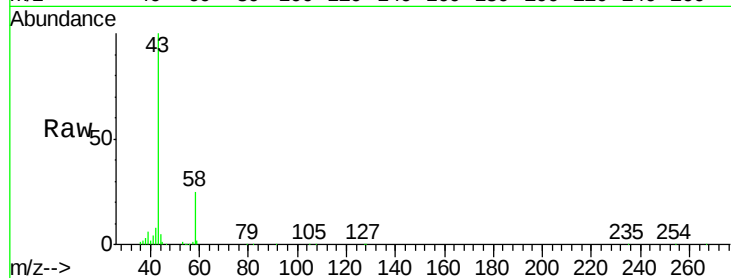
#15
Acetone
Concen: 3.336 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL037804.D
Acq: 7 Oct 2021 20:25

Instrument :
MSVOA_L
ClientSampleId :
C0P16

Tgt Ion: 43 Resp: 337308
Ion Ratio Lower Upper
43 100
58 30.4 23.0 34.6

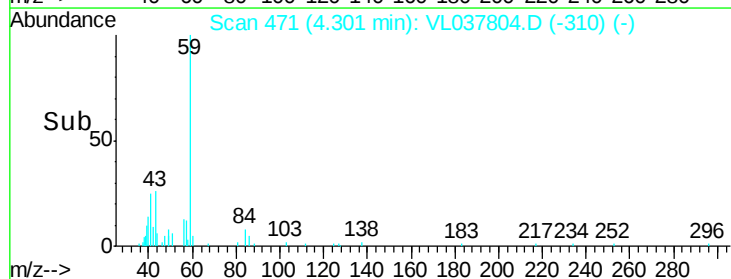
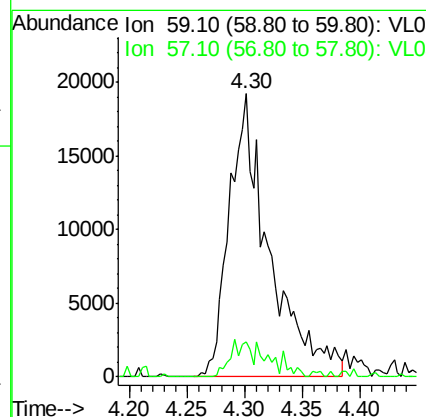
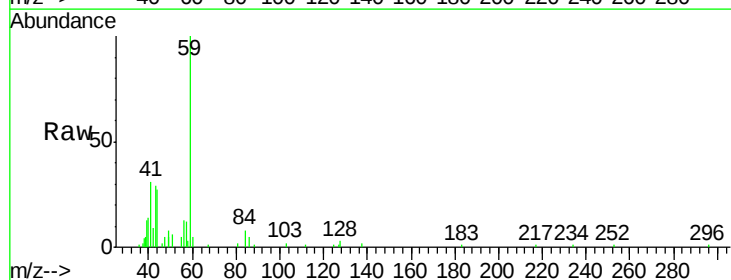
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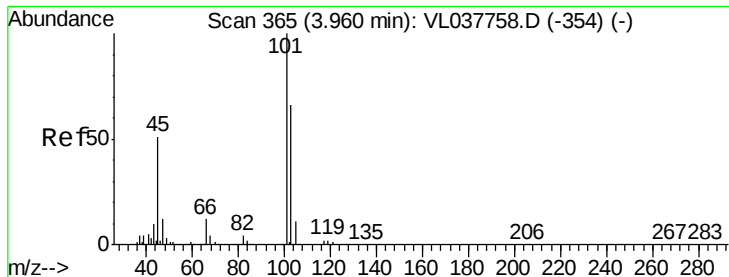
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#17
tert-Butyl alcohol
Concen: 0.445 ppbv m
RT: 4.30 min Scan# 471
Delta R.T. 0.02 min
Lab File: VL037804.D
Acq: 7 Oct 2021 20:25

Tgt Ion: 59 Resp: 46387
Ion Ratio Lower Upper
59 100
57 11.6 8.6 13.0





#19

Isopropyl Alcohol

Concen: 0.449 ppbv m

RT: 3.97 min Scan# 368

Delta R.T. 0.01 min

Lab File: VL037804.D

Acq: 7 Oct 2021 20:25

Instrument :

MSVOA_L

ClientSampleId :

C0P16

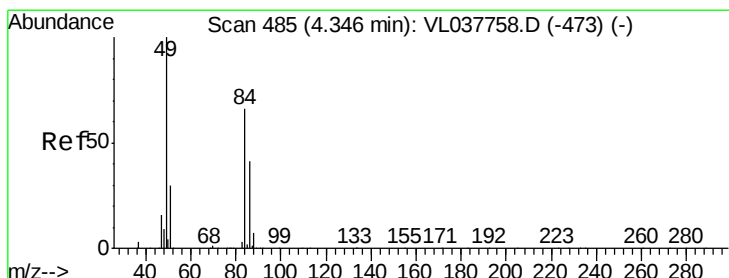
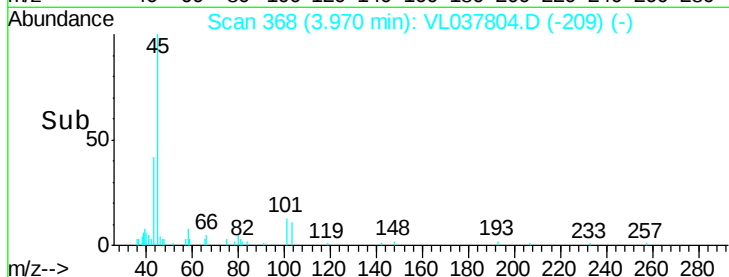
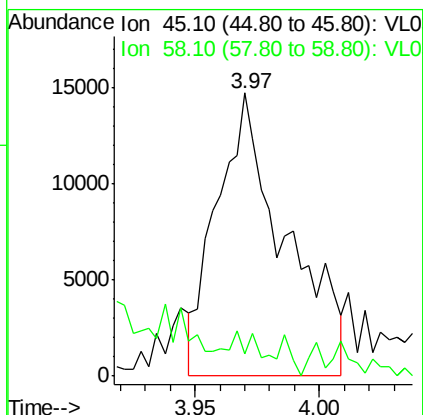
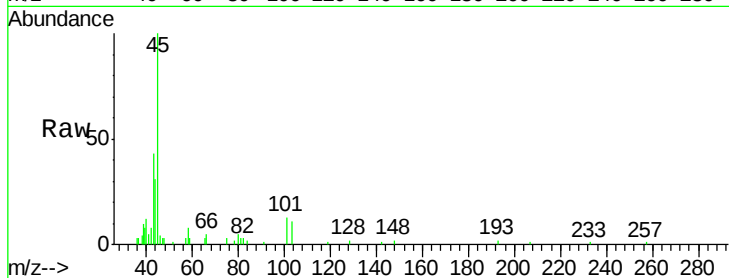
Tgt Ion: 45 Resp: 28270
Ion Ratio Lower Upper

45 100

58 20.6 1.1 1.7#

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#20

Methylene Chloride

Concen: 8.055 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.02 min

Lab File: VL037804.D

Acq: 7 Oct 2021 20:25

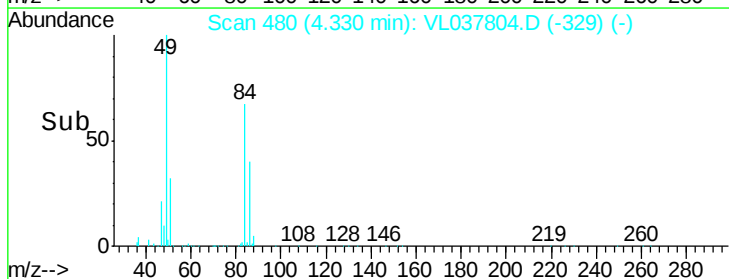
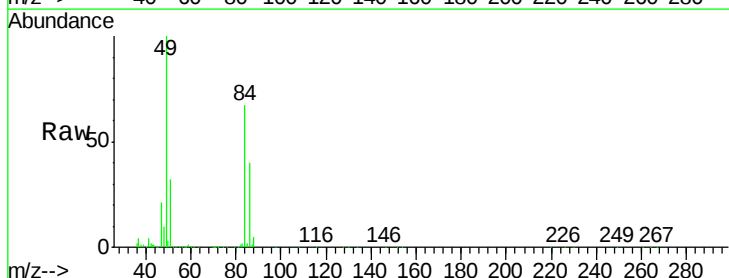
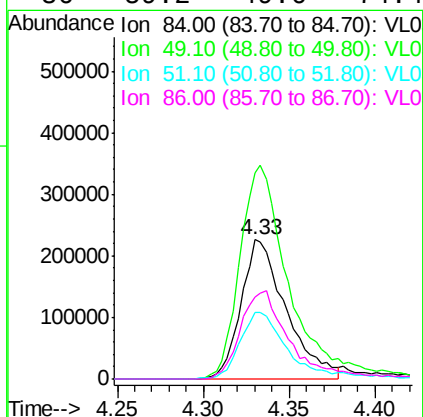
Tgt Ion: 84 Resp: 411558
Ion Ratio Lower Upper

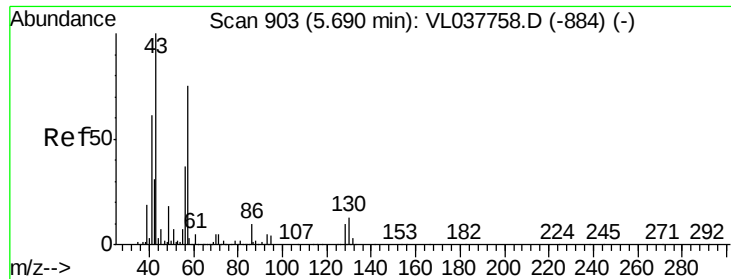
84 100

49 148.2 120.7 181.1

51 47.4 36.2 54.4

86 59.2 49.6 74.4





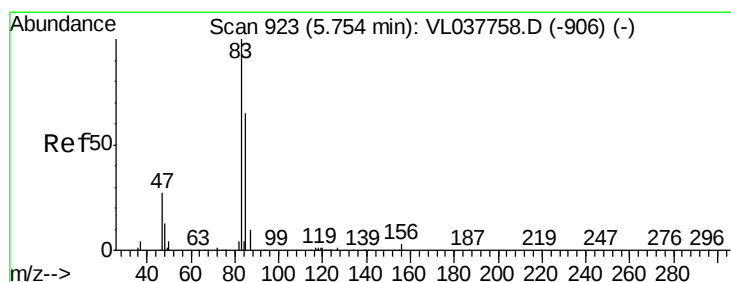
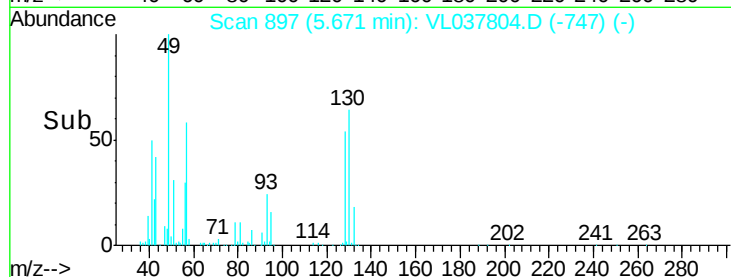
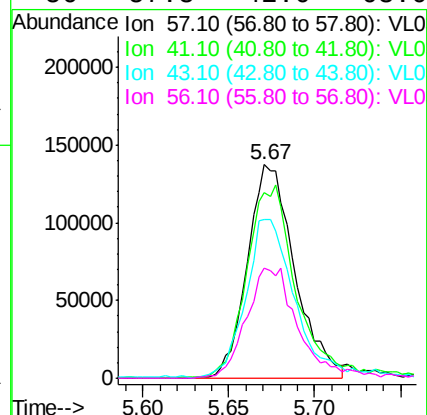
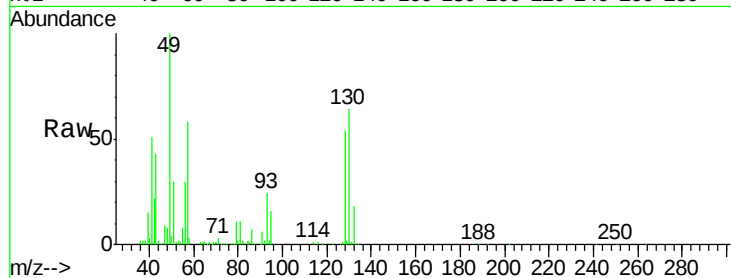
#26
Hexane
Concen: 1.875 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.02 min
Lab File: VL037804.D
Acq: 7 Oct 2021 20:25

Instrument :
MSVOA_L
ClientSampleId :
C0P16

Tgt Ion	Ratio	Lower	Upper
57	100		
41	98.3	69.6	104.4
43	78.8	171.4	257.0#
56	57.8	42.0	63.0

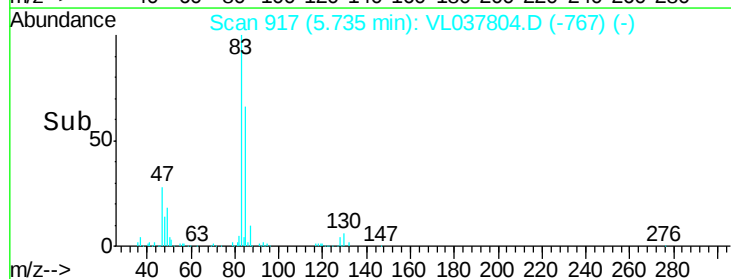
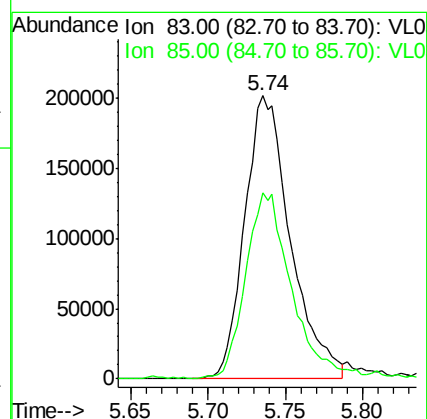
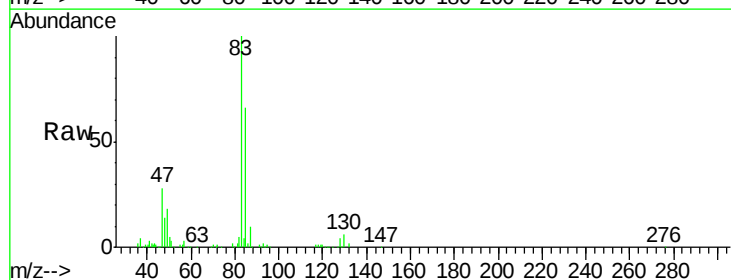
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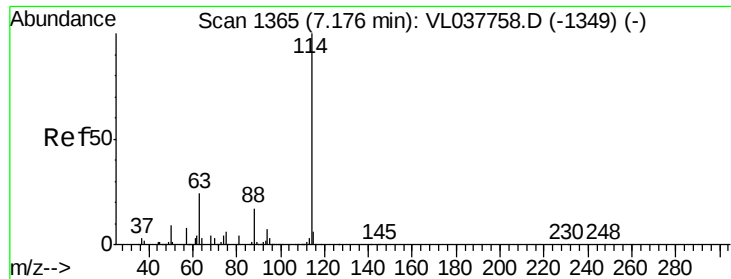
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#29
Chloroform
Concen: 2.083 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.02 min
Lab File: VL037804.D
Acq: 7 Oct 2021 20:25

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.8	77.8





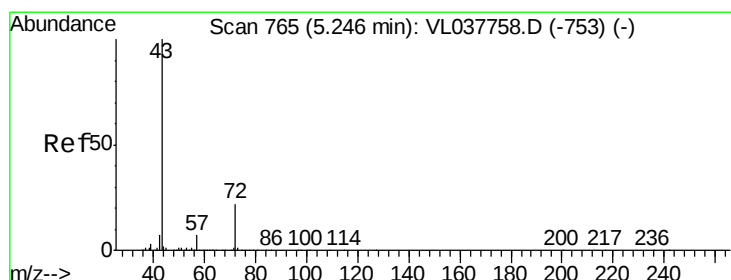
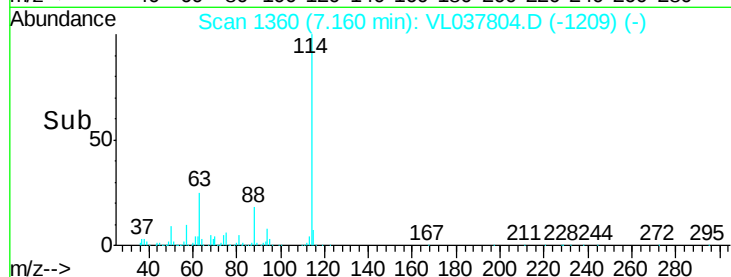
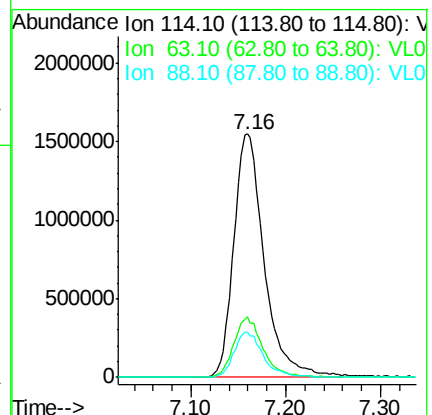
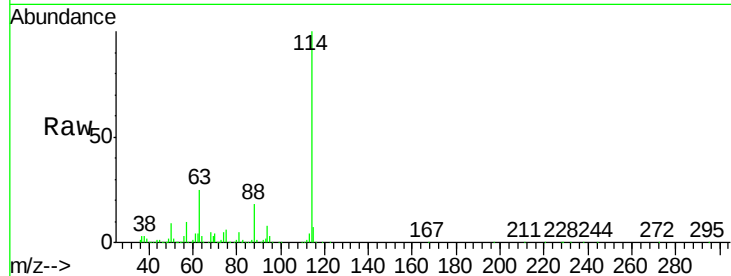
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.02 min
 Lab File: VL037804.D
 Acq: 7 Oct 2021 20:25

Instrument :
 MSVOA_L
 ClientSampled :
 C0P16

Tgt Ion: 114 Resp: 3454070
 Ion Ratio Lower Upper
 114 100
 63 24.1 19.4 29.2
 88 18.1 14.4 21.6

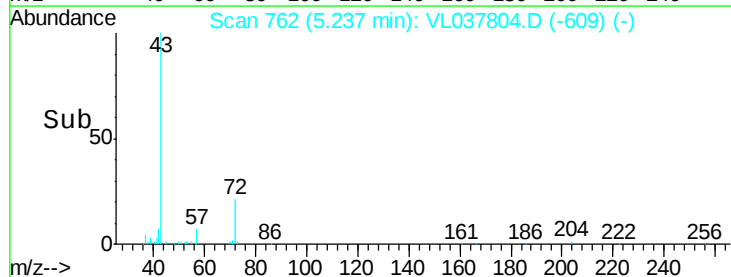
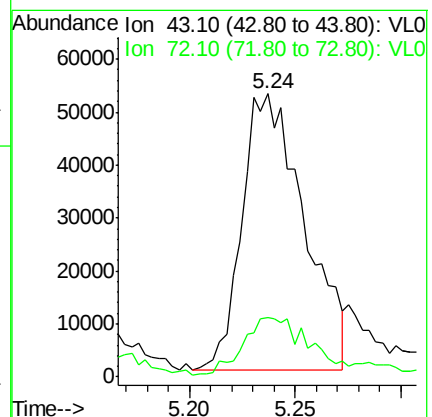
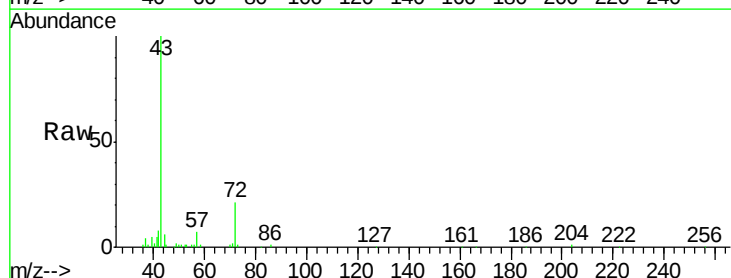
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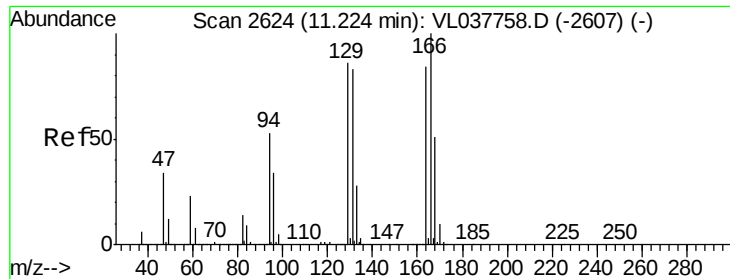
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#34
 2-Butanone
 Concen: 0.771 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.01 min
 Lab File: VL037804.D
 Acq: 7 Oct 2021 20:25

Tgt Ion: 43 Resp: 107496
 Ion Ratio Lower Upper
 43 100
 72 28.6 18.2 27.2#





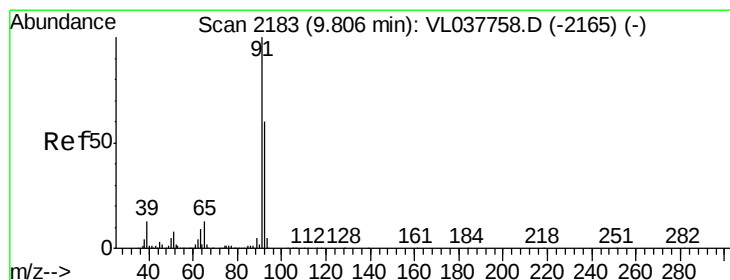
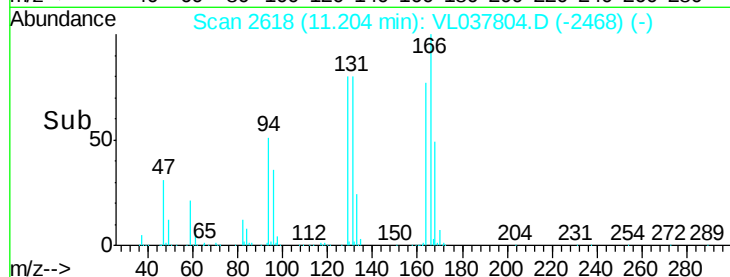
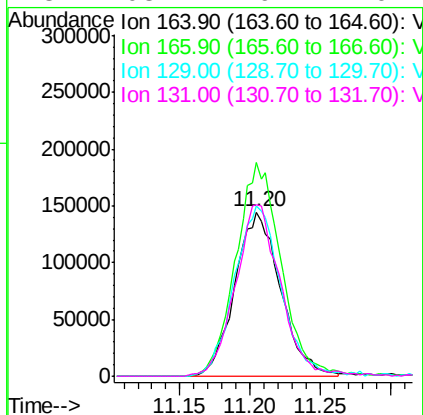
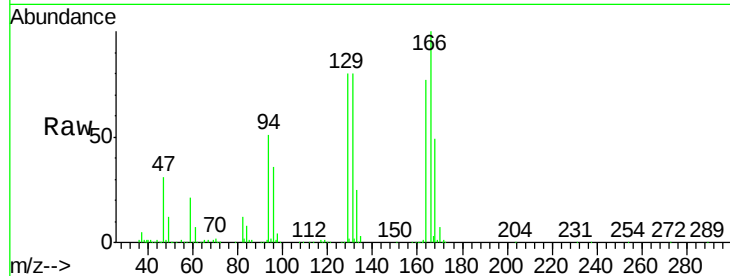
#52
Tetrachloroethene
Concen: 2.845 ppbv
RT: 11.20 min Scan# 2618
Delta R.T. -0.02 min
Lab File: VL037804.D
Acq: 7 Oct 2021 20:25

Instrument :
MSVOA_L
ClientSampled :
C0P16

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	326602		
166	130.0	95.4	143.2	
129	103.5	82.2	123.4	
131	103.7	79.4	119.2	

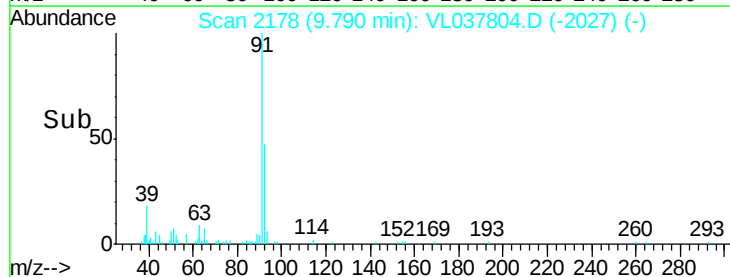
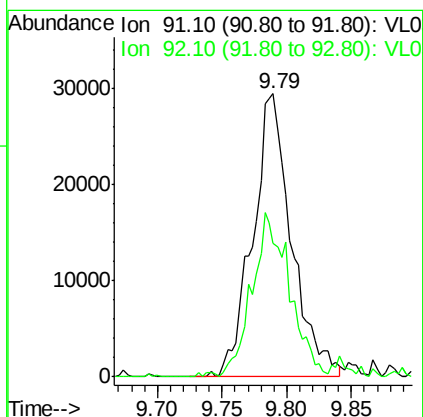
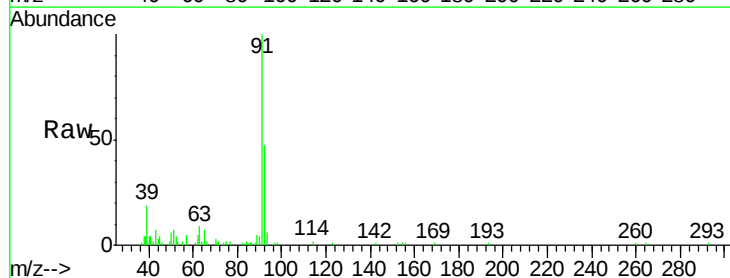
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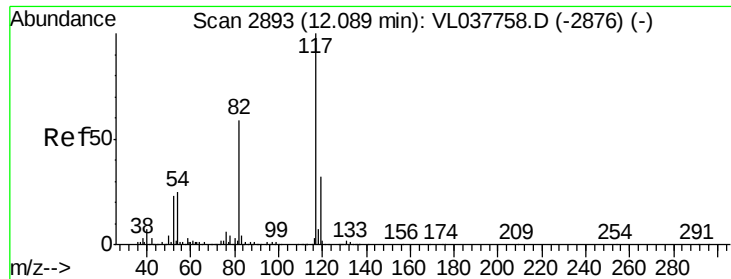
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#53
Toluene
Concen: 0.188 ppbv m
RT: 9.79 min Scan# 2178
Delta R.T. -0.02 min
Lab File: VL037804.D
Acq: 7 Oct 2021 20:25

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	61352		
92	59.2	48.4	72.6	





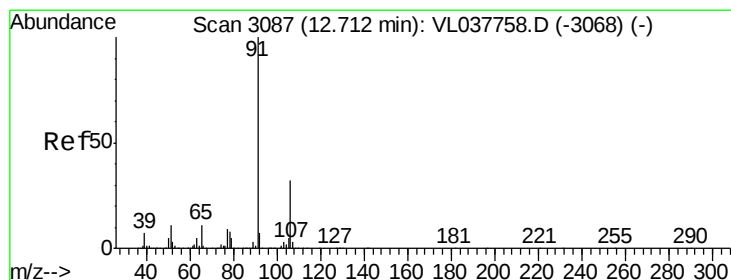
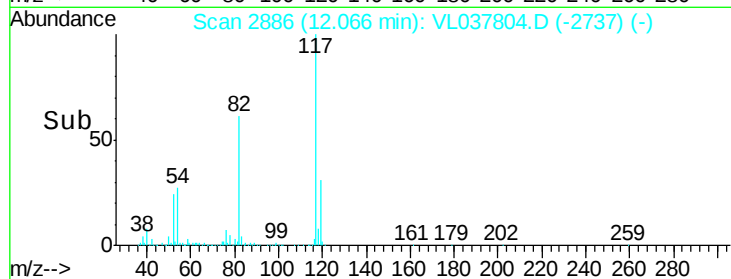
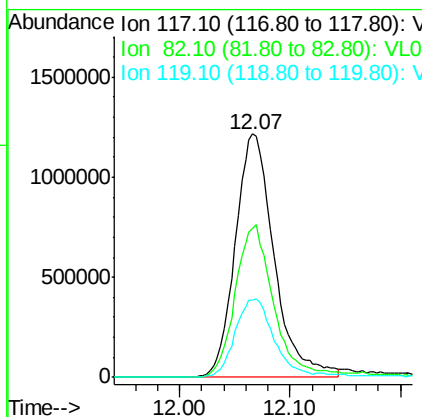
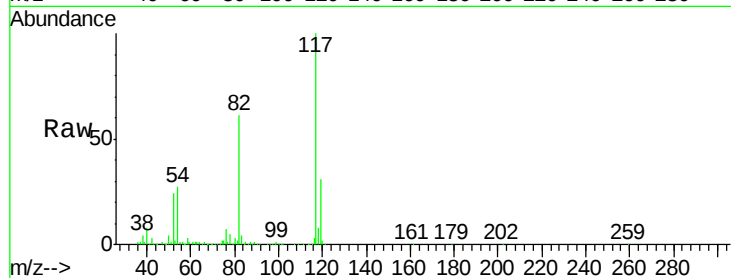
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. -0.02 min
Lab File: VL037804.D
Acq: 7 Oct 2021 20:25

Instrument :
MSVOA_L
ClientSampled :
C0P16

Tgt Ion: 117 Resp: 2972723
Ion Ratio Lower Upper
117 100
82 64.3 52.2 78.2
119 34.3 26.0 39.0

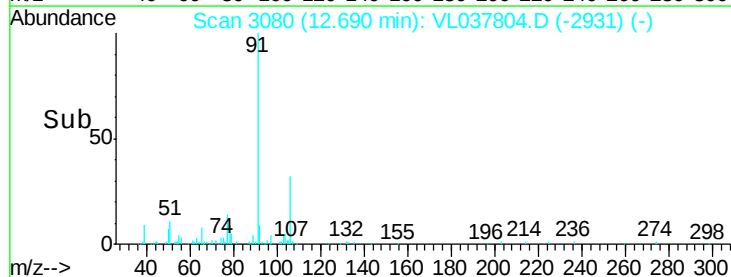
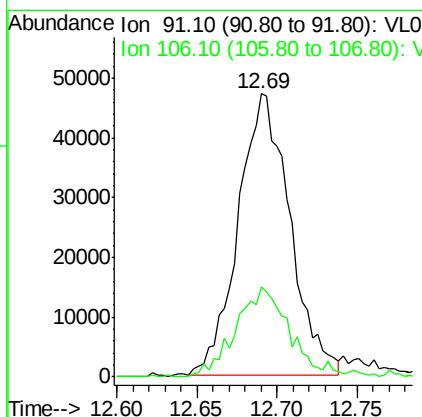
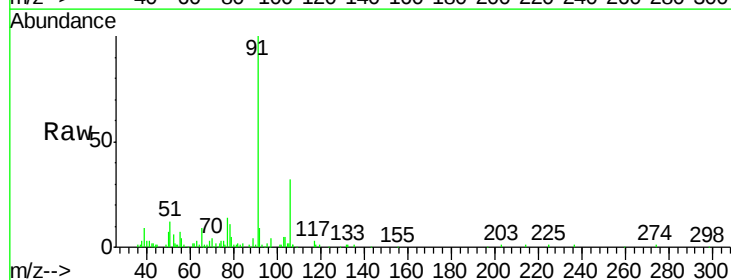
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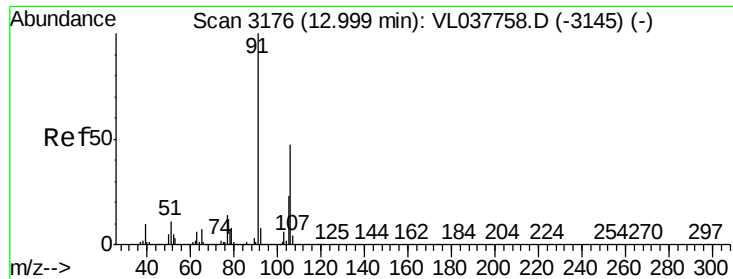
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#58
Ethyl Benzene
Concen: 0.261 ppbv
RT: 12.69 min Scan# 3080
Delta R.T. -0.02 min
Lab File: VL037804.D
Acq: 7 Oct 2021 20:25

Tgt Ion: 91 Resp: 104144
Ion Ratio Lower Upper
91 100
106 32.0 25.3 37.9





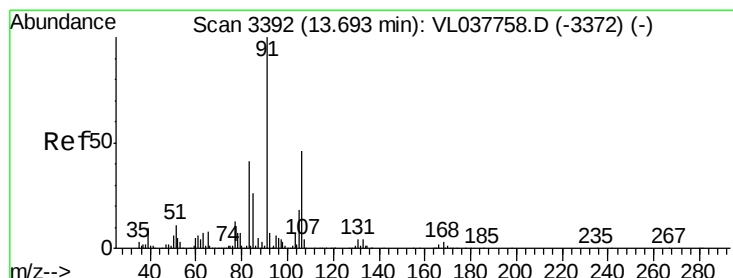
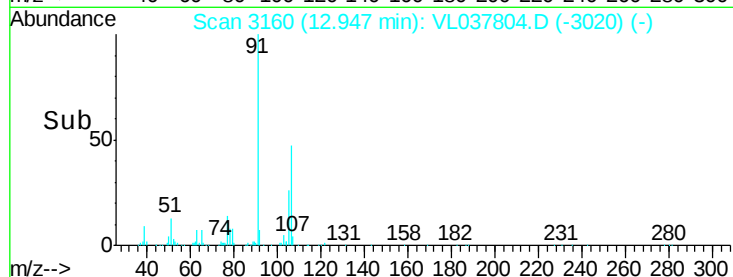
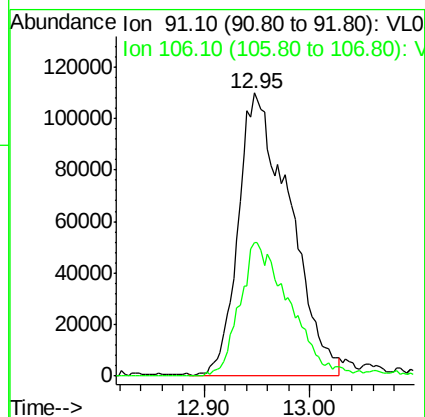
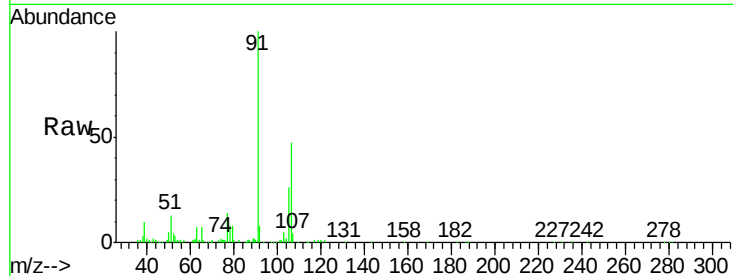
#59
m/p-Xylene
Concen: 1.086 ppbv m
RT: 12.95 min Scan# 3160
Delta R.T. -0.05 min
Lab File: VL037804.D
Acq: 7 Oct 2021 20:25

Instrument :
MSVOA_L
ClientSampleId :
C0P16

Tgt Ion: 91 Resp: 372035
Ion Ratio Lower Upper
91 100
106 0.0 36.7 55.1#

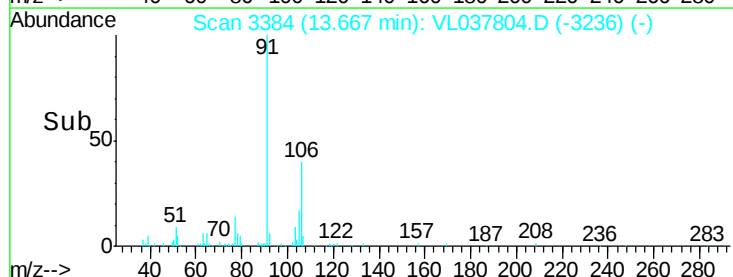
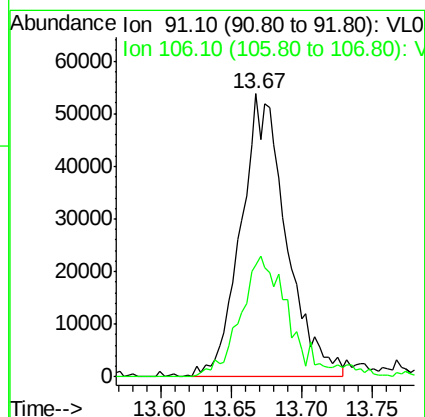
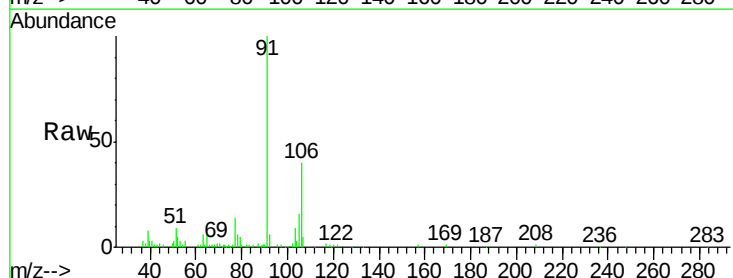
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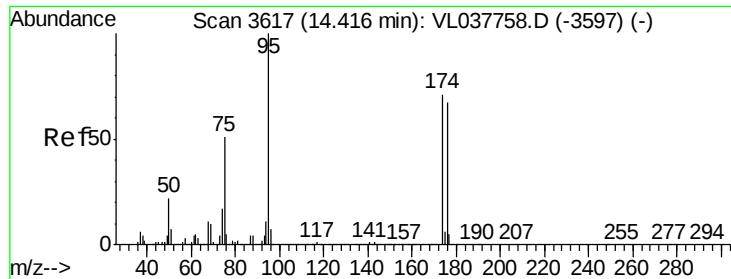
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#60
o-Xylene
Concen: 0.368 ppbv m
RT: 13.67 min Scan# 3384
Delta R.T. -0.03 min
Lab File: VL037804.D
Acq: 7 Oct 2021 20:25

Tgt Ion: 91 Resp: 120688
Ion Ratio Lower Upper
91 100
106 0.0 23.5 70.5#





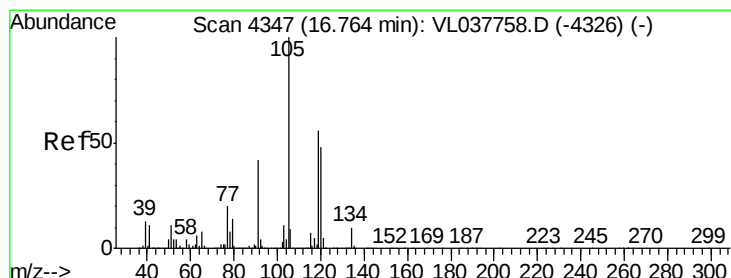
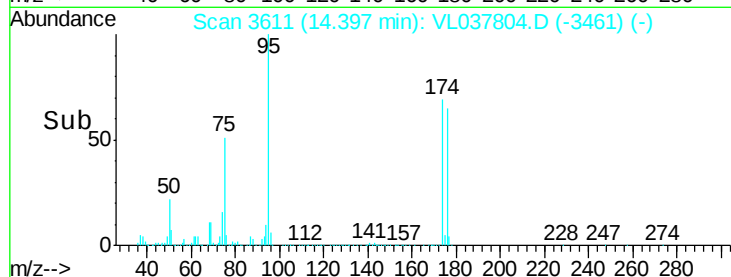
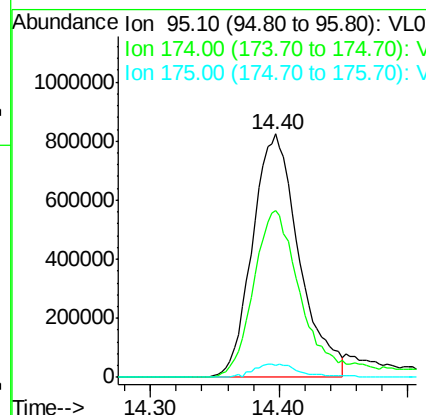
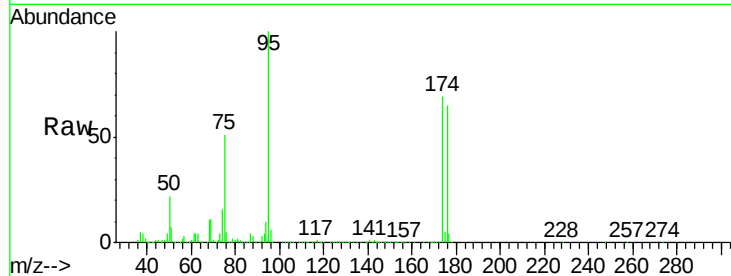
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.967 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. -0.02 min
 Lab File: VL037804.D
 Acq: 7 Oct 2021 20:25

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P16

Tgt Ion: 95 Resp: 2072071
 Ion Ratio Lower Upper
 95 100
 174 77.3 57.8 86.6
 175 5.5 4.7 7.1

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.100 ppbv m
 RT: 16.74 min Scan# 4339
 Delta R.T. -0.03 min
 Lab File: VL037804.D
 Acq: 7 Oct 2021 20:25

Tgt Ion: 105 Resp: 35623
 Ion Ratio Lower Upper
 105 100
 120 31.5 38.4 57.6#
 91 15.0 34.2 51.2#
 77 15.5 15.8 23.8#

