

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
 Data File : VL037814.D
 Acq On : 8 Oct 2021 2:58
 Operator : SY/AP
 Sample : M4079-15
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P02

Manual Integrations
 APPROVED

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Quant Time: Oct 08 11:22:30 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	1147783	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	3332546	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	2969721	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2131190	10.26	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	36042	0.197	ppbv	93
3) Chlorodifluoromethane	2.99	51	46307	0.210	ppbv	100
4) Chloromethane	3.14	50	38939m	0.482	ppbv	
9) Propene	3.01	41	29339m	0.362	ppbv	
11) Trichlorofluoromethane	3.94	101	34368	0.210	ppbv	94
13) Ethanol	3.61	45	54369m	8.193	ppbv	
15) Acetone	3.84	43	509589	4.946	ppbv	93
20) Methylene Chloride	4.33	84	32079m	0.616	ppbv	
26) Hexane	5.68	57	40825	0.287	ppbv #	54
29) Chloroform	5.74	83	58822	0.289	ppbv	98
34) 2-Butanone	5.25	43	53847m	0.400	ppbv	
35) Carbon Tetrachloride	7.01	117	11504m	0.061	ppbv	
52) Tetrachloroethene	11.20	164	88653m	0.801	ppbv	
53) Toluene	9.79	91	30167m	0.096	ppbv	
59) m/p-Xylene	12.95	91	94272m	0.275	ppbv	
60) o-Xylene	13.67	91	34513m	0.105	ppbv	
80) Naphthalene,2-methyl-	24.95	142	2173	0.037	ppbv	97

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

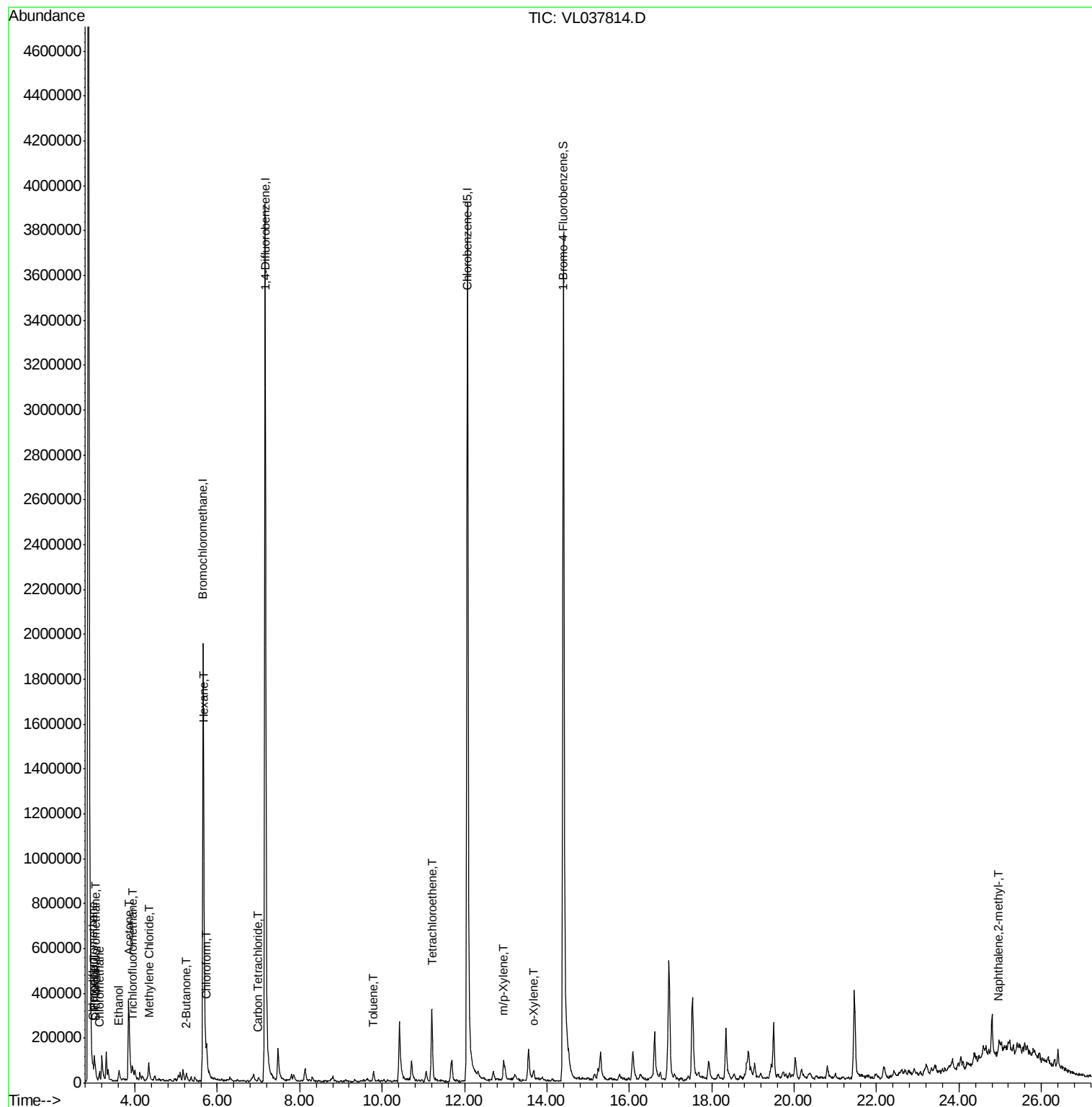
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
Data File : VL037814.D
Acq On : 8 Oct 2021 2:58
Operator : SY/AP
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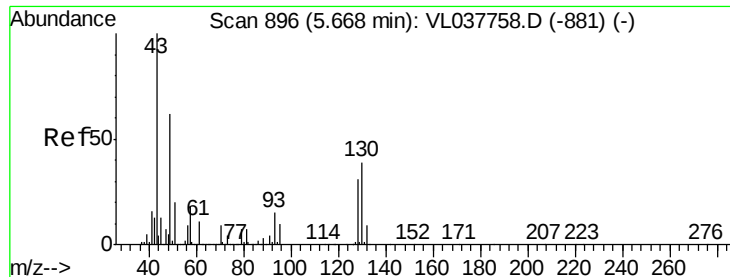
Instrument :
MSVOA_L
ClientSampled :
C0P02

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Quant Time: Oct 08 11:22:30 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: VL037814.D

Acq: 8 Oct 2021 2:58

Instrument :

MSVOA_L

ClientSampled :

C0P02

Tgt Ion: 49 Resp: 1147783

Ion Ratio Lower Upper

49 100

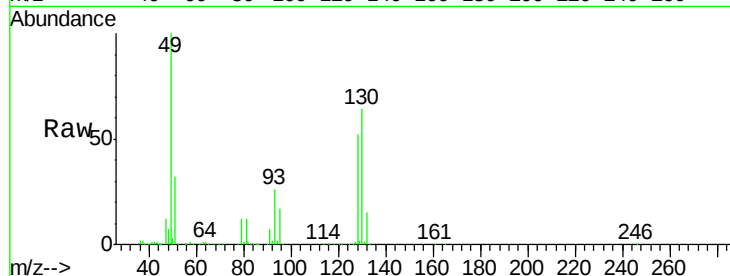
128 51.9 27.1 81.3

130 68.6 33.2 99.6

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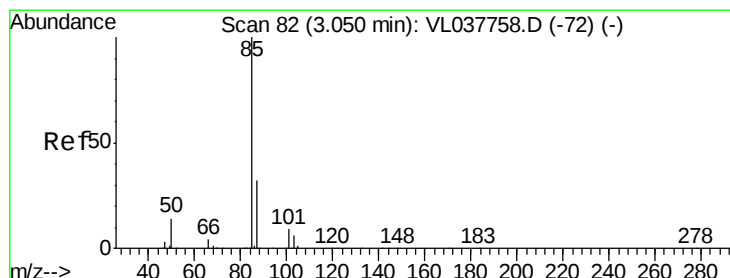
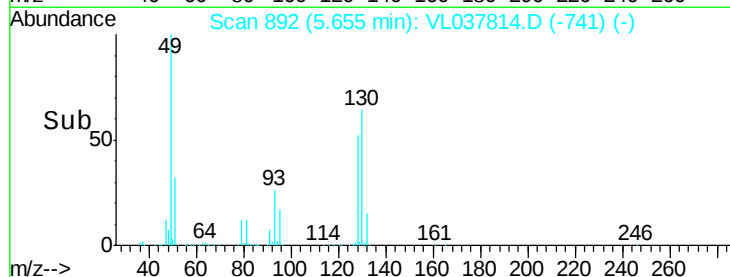
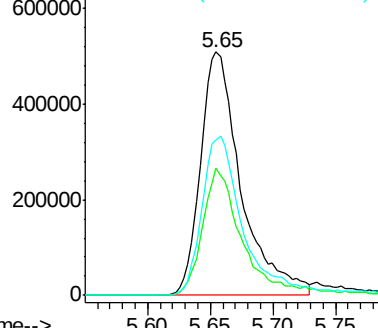
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.197 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037814.D

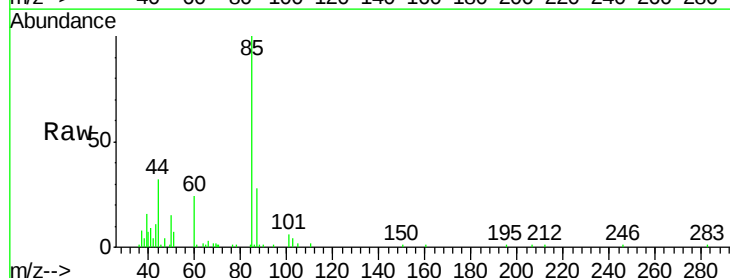
Acq: 8 Oct 2021 2:58

Tgt Ion: 85 Resp: 36042

Ion Ratio Lower Upper

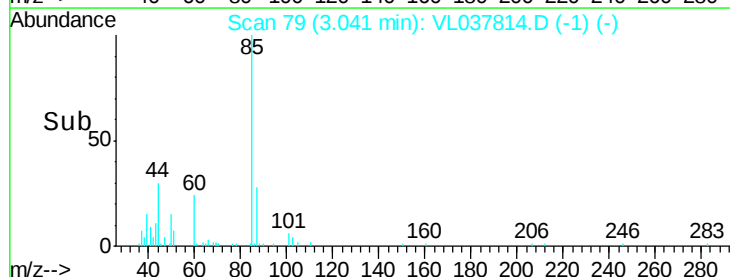
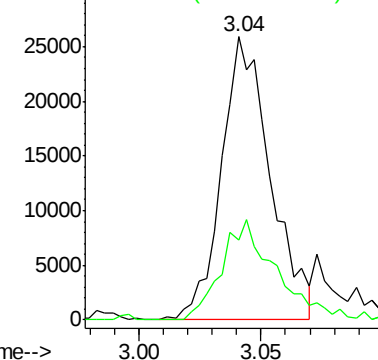
85 100

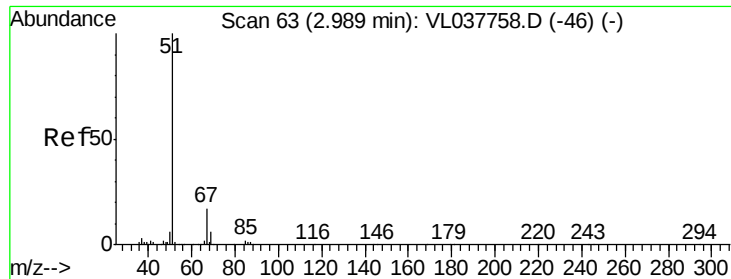
87 28.4 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.210 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Instrument :

MSVOA_L

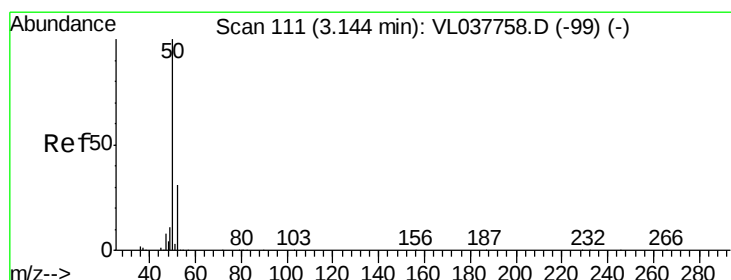
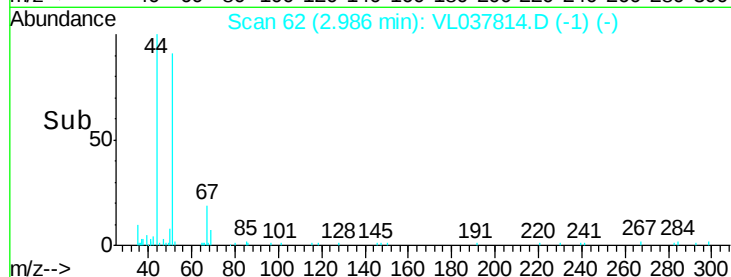
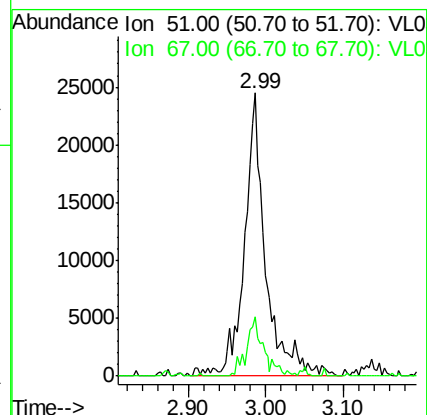
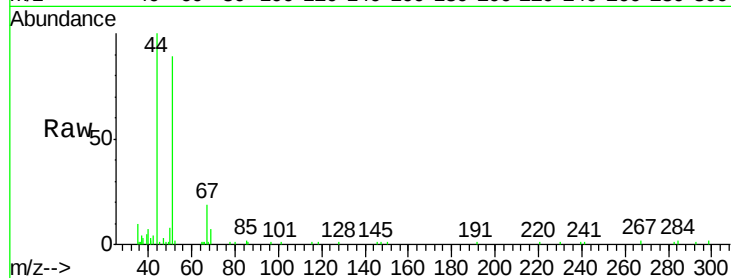
ClientSampled :

C0P02

Tgt Ion	Ratio	Lower	Upper
51	100		
67	17.1	13.5	20.3

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#4

Chloromethane

Concen: 0.482 ppbv m

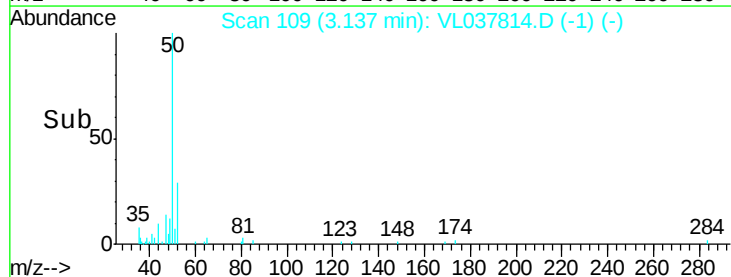
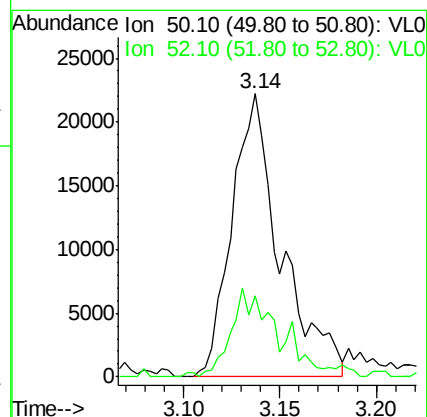
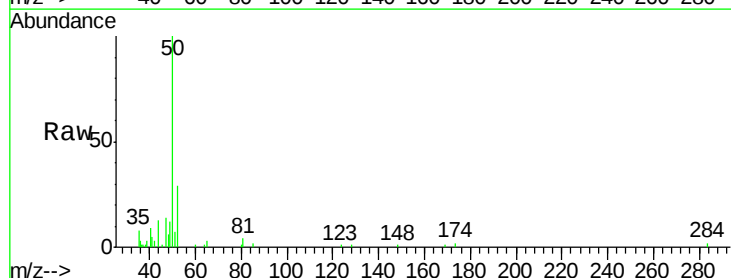
RT: 3.14 min Scan# 109

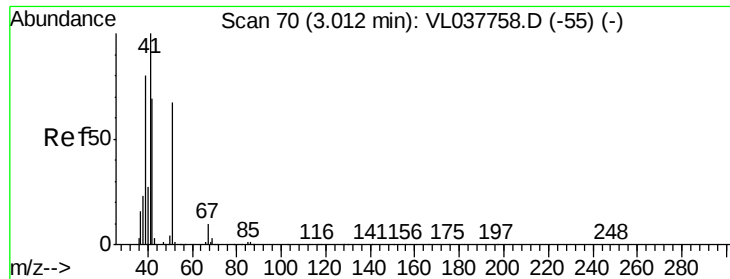
Delta R.T. -0.01 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Tgt Ion	Ratio	Lower	Upper
50	100		
52	28.8	24.4	36.6





#9

Propene

Concen: 0.362 ppbv m

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Instrument :

MSVOA_L

ClientSampleId :

C0P02

Tgt Ion: 41 Resp: 29339

Ion Ratio Lower Upper

41 100

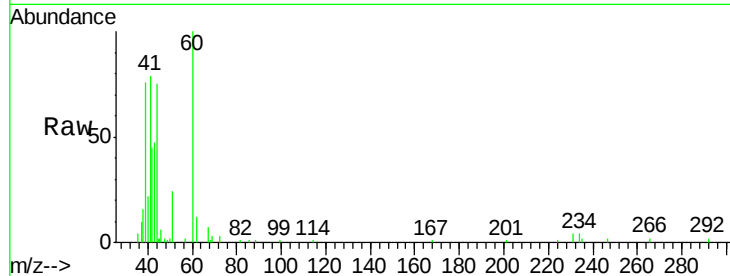
42 66.3 54.2 81.2

Manual Integrations

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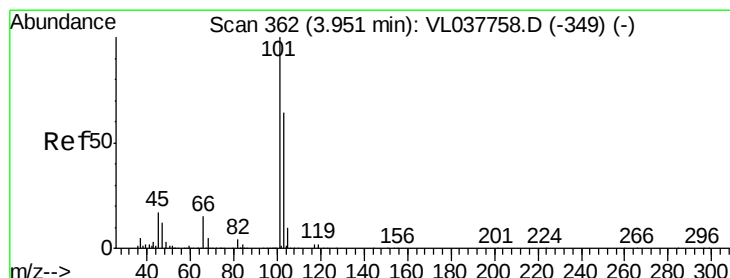
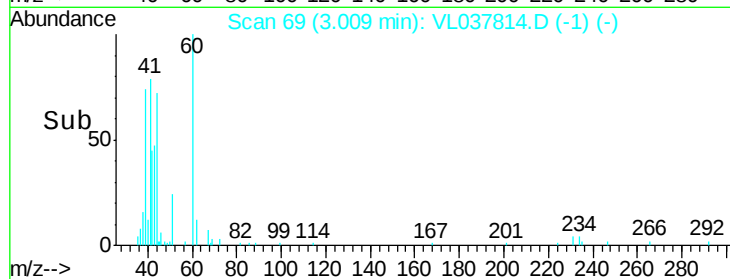
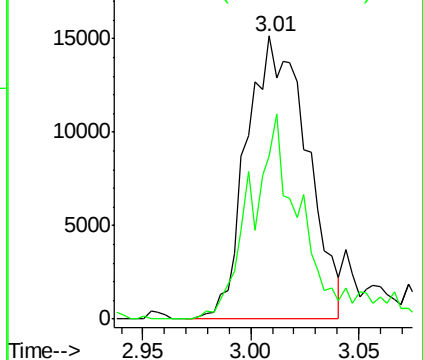
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.210 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL037814.D

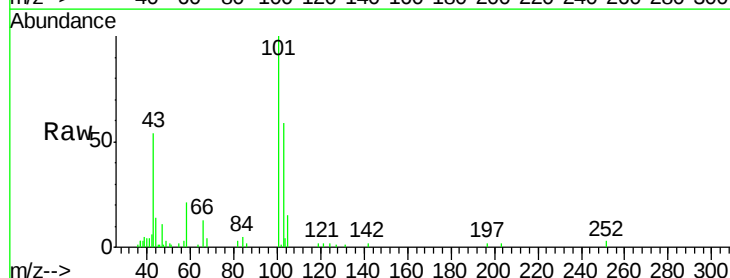
Acq: 8 Oct 2021 2:58

Tgt Ion: 101 Resp: 34368

Ion Ratio Lower Upper

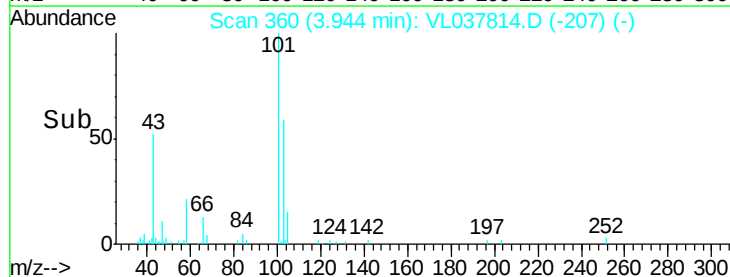
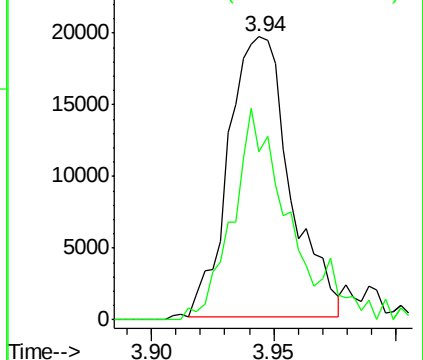
101 100

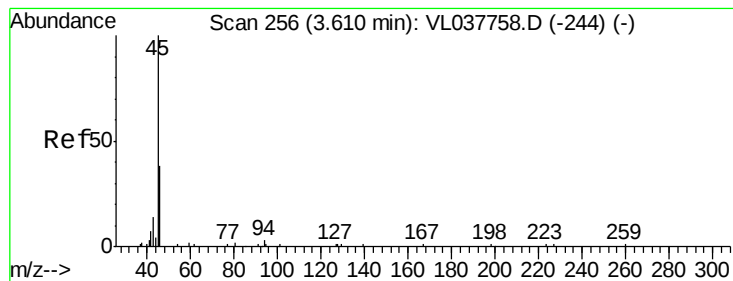
103 59.6 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 8.193 ppbv m

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Instrument :

MSVOA_L

ClientSampled :

C0P02

Tgt Ion: 45 Resp: 54369

Ion Ratio Lower Upper

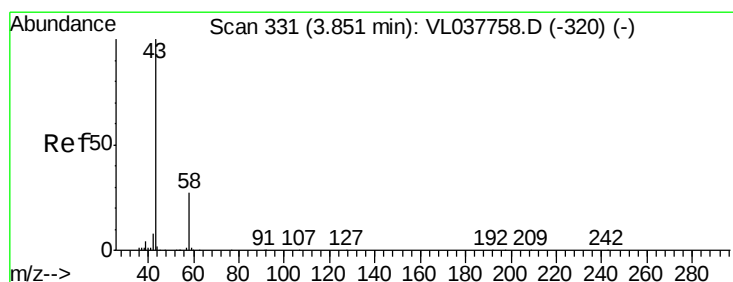
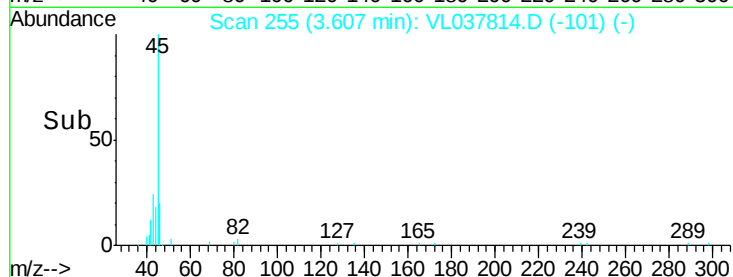
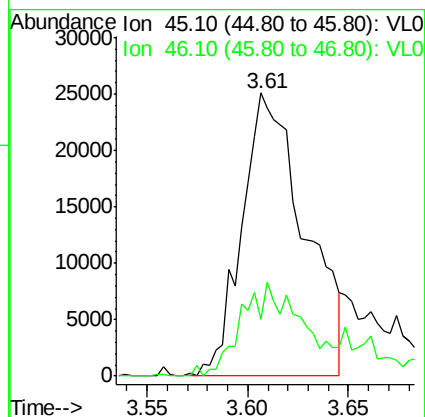
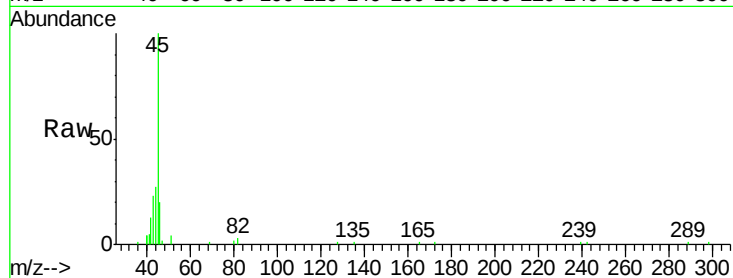
45 100

46 46.8 20.2 81.0

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#15

Acetone

Concen: 4.946 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL037814.D

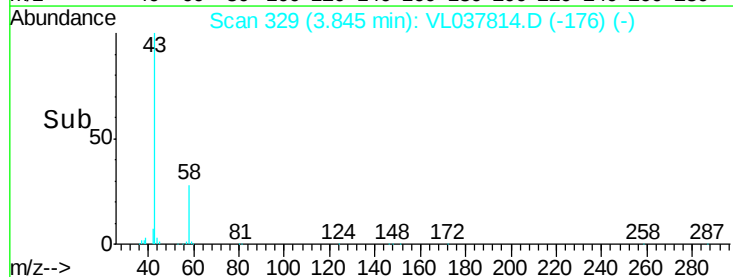
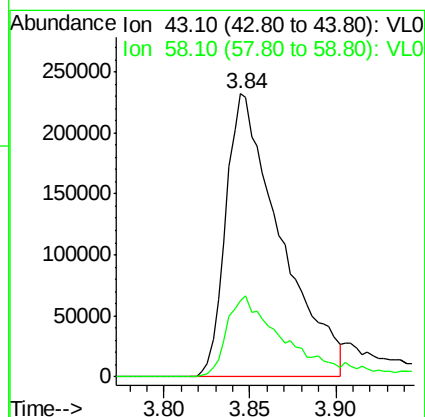
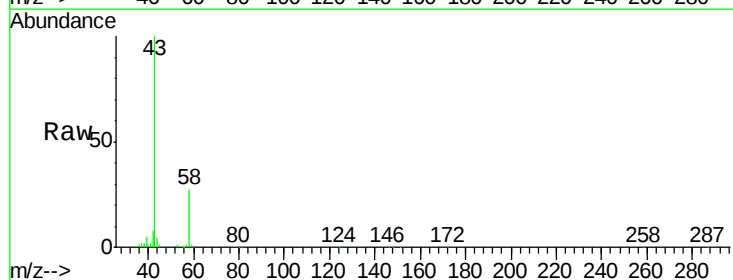
Acq: 8 Oct 2021 2:58

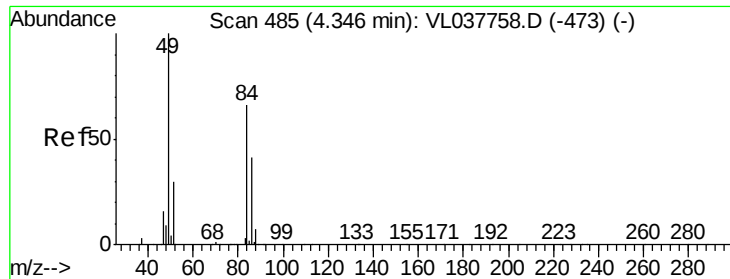
Tgt Ion: 43 Resp: 509589

Ion Ratio Lower Upper

43 100

58 32.7 23.0 34.6





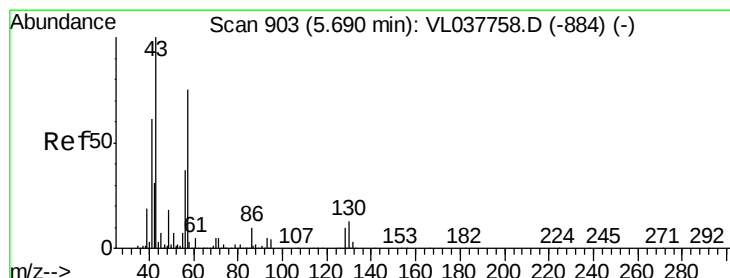
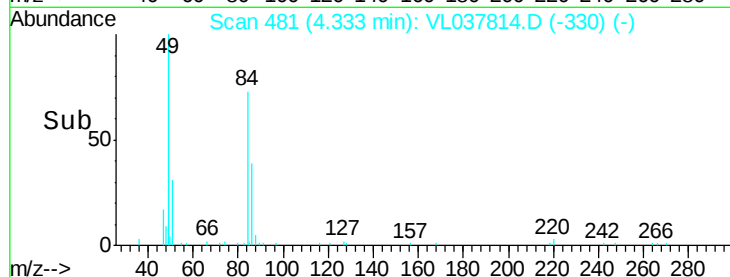
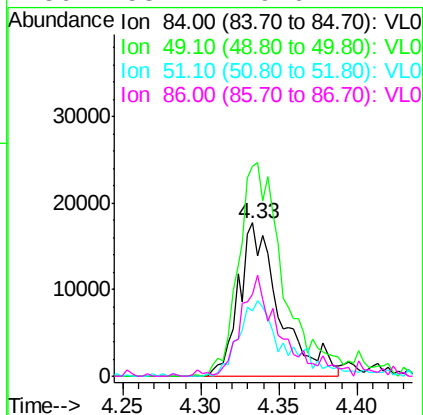
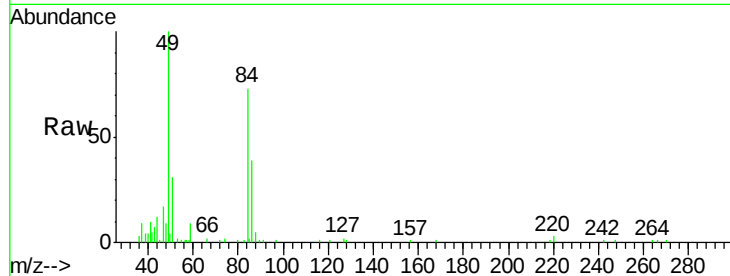
#20
Methylene Chloride
Concen: 0.616 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL037814.D
Acq: 8 Oct 2021 2:58

Instrument :
MSVOA_L
ClientSampled :
C0P02

Tgt Ion	Ratio	Lower	Upper
84	100		
49	137.1	120.7	181.1
51	42.3	36.2	54.4
86	53.4	49.6	74.4

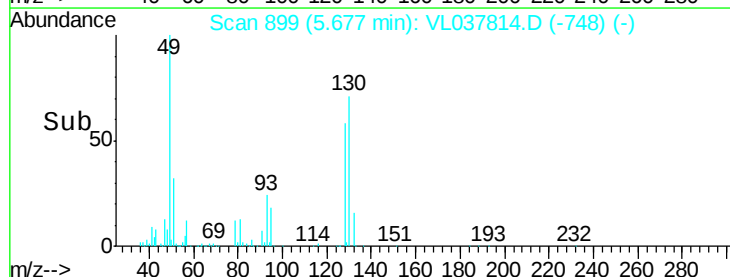
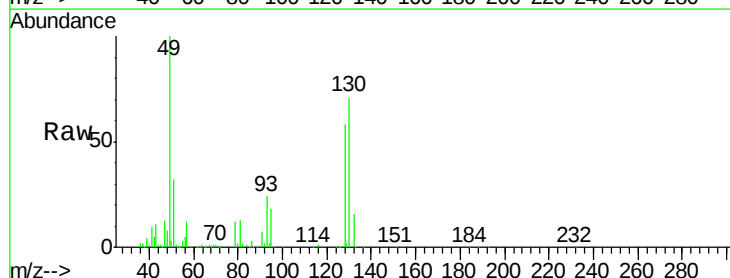
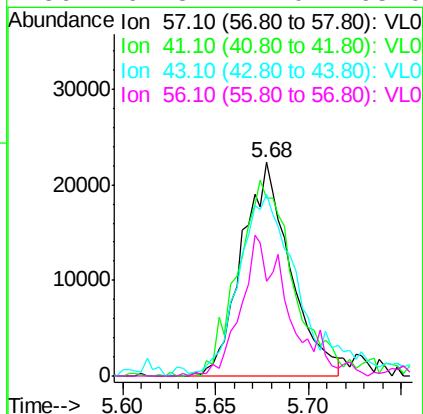
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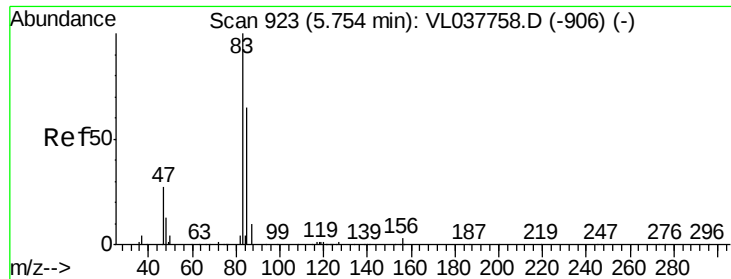
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#26
Hexane
Concen: 0.287 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL037814.D
Acq: 8 Oct 2021 2:58

Tgt Ion	Ratio	Lower	Upper
57	100		
41	106.7	69.6	104.4#
43	114.1	171.4	257.0#
56	64.8	42.0	63.0#





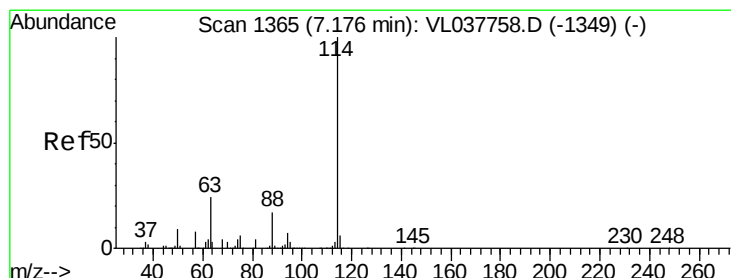
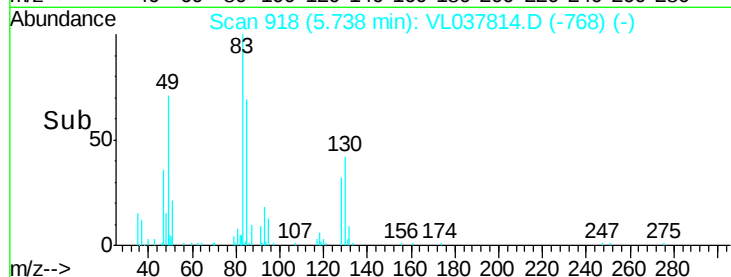
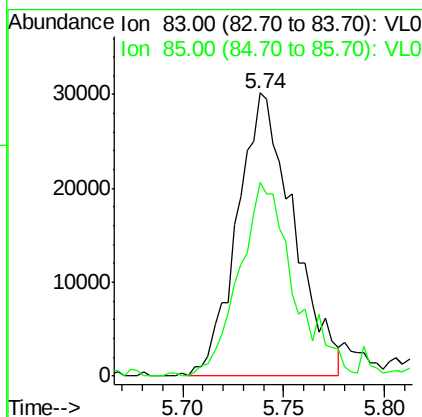
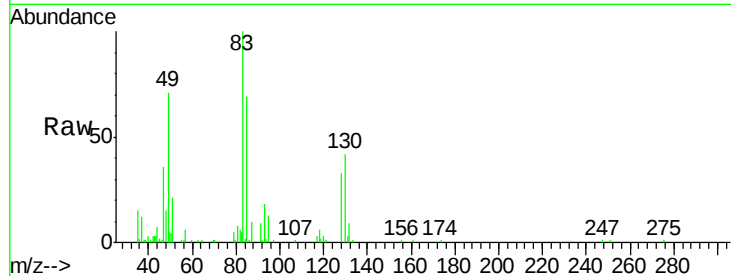
#29
Chloroform
Concen: 0.289 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.02 min
Lab File: VL037814.D
Acq: 8 Oct 2021 2:58

Instrument :
MSVOA_L
ClientSampled :
C0P02

Tgt Ion: 83 Resp: 58822
Ion Ratio Lower Upper
83 100
85 66.5 51.8 77.8

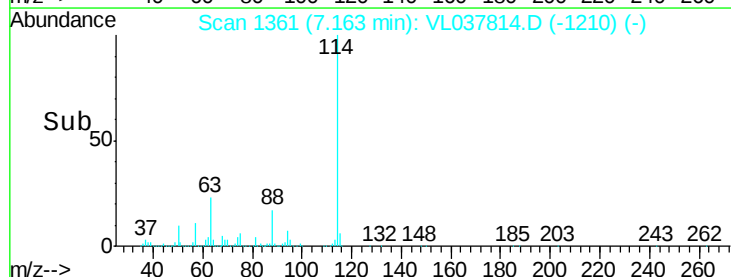
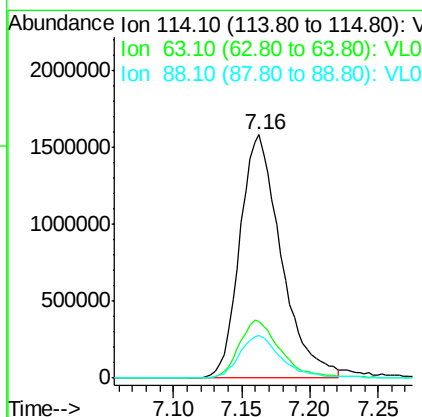
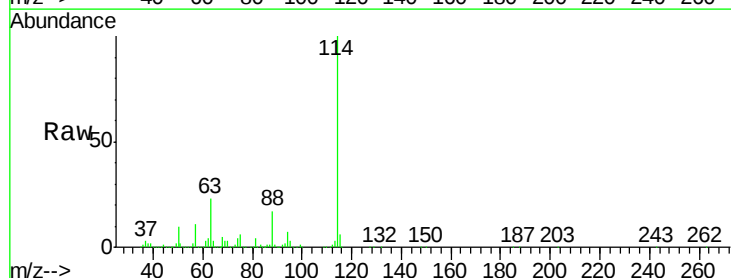
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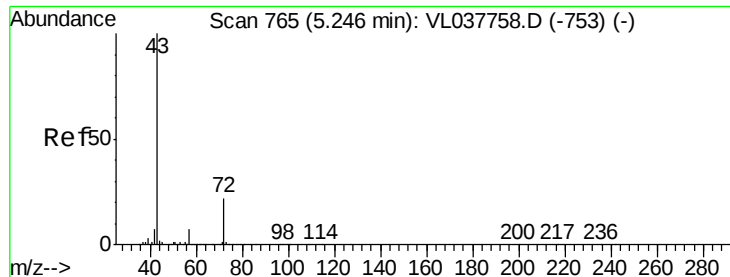
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.01 min
Lab File: VL037814.D
Acq: 8 Oct 2021 2:58

Tgt Ion: 114 Resp: 3332546
Ion Ratio Lower Upper
114 100
63 24.3 19.4 29.2
88 18.2 14.4 21.6





#34

2-Butanone

Concen: 0.400 ppbv m

RT: 5.25 min Scan# 765

Delta R.T. -0.00 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Instrument :

MSVOA_L

ClientSampled :

C0P02

Tgt Ion: 43 Resp: 53847

Ion Ratio Lower Upper

43 100

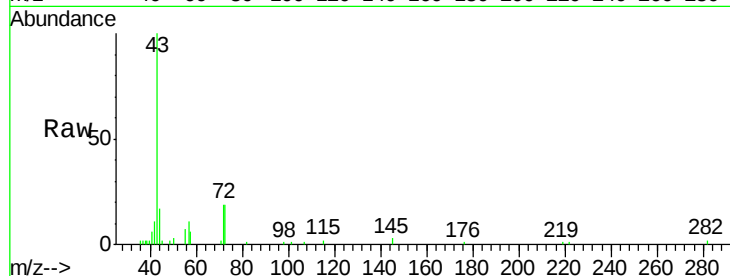
72 0.0 18.2 27.2#

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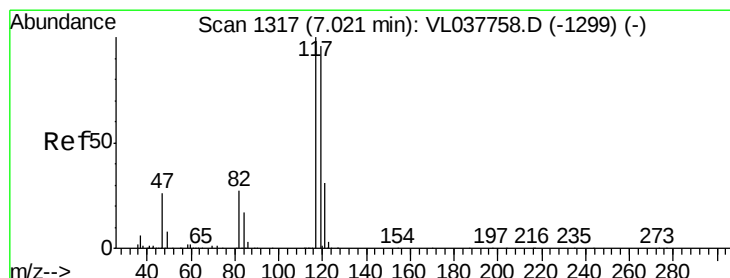
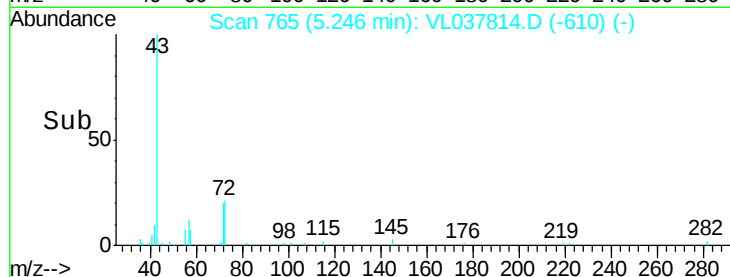
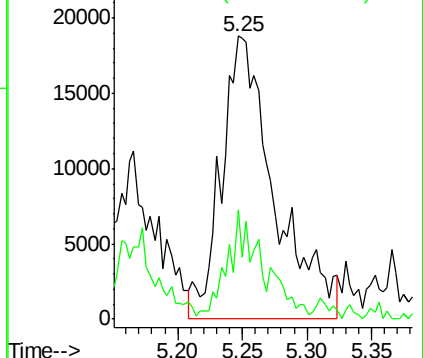
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.061 ppbv m

RT: 7.01 min Scan# 1312

Delta R.T. -0.02 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

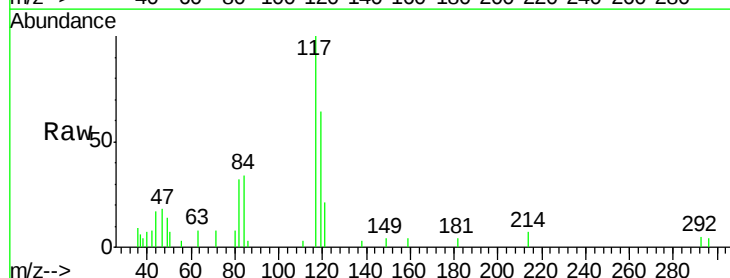
Tgt Ion: 117 Resp: 11504

Ion Ratio Lower Upper

117 100

119 63.9 76.5 114.7#

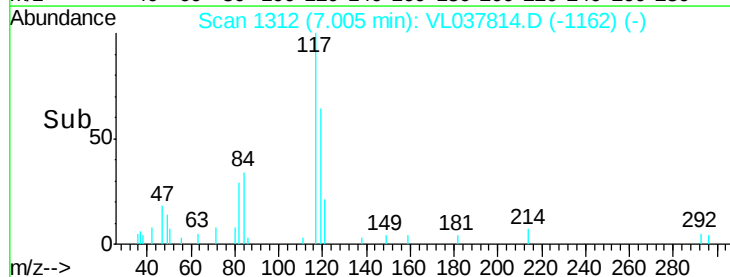
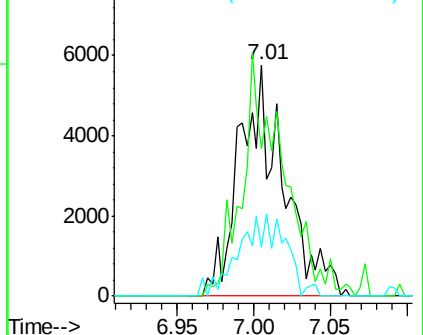
121 21.3 24.9 37.3#

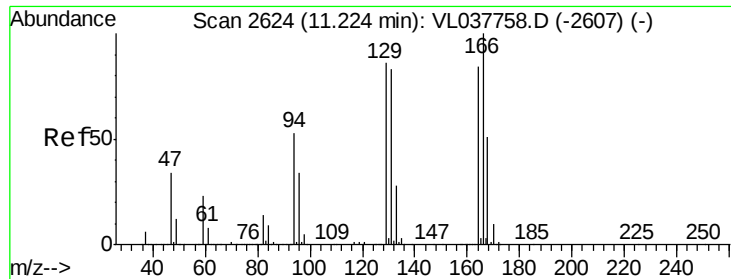


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#52

Tetrachloroethene

Concen: 0.801 ppbv m

RT: 11.20 min Scan# 2618

Delta R.T. -0.02 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Instrument :

MSVOA_L

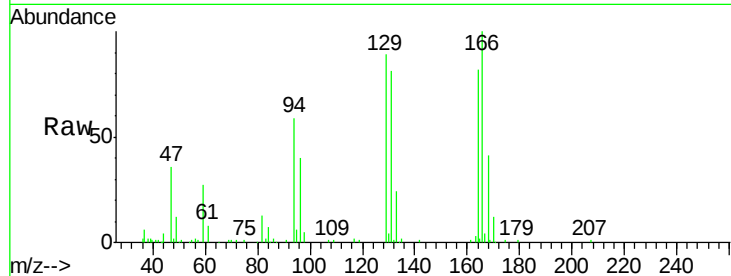
ClientSampleId :

C0P02

Tgt Ion:	164	Resp:	88653
Ion Ratio	Lower	Upper	
164	100		
166	121.2	95.4	143.2
129	108.5	82.2	123.4
131	98.3	79.4	119.2

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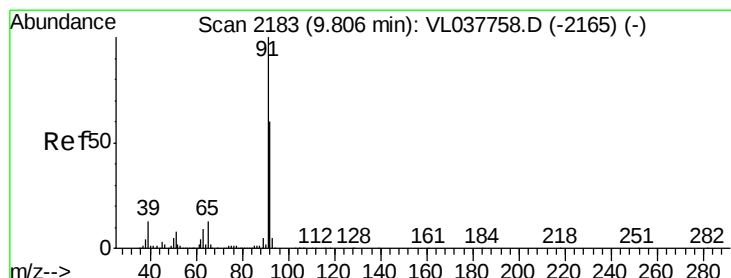
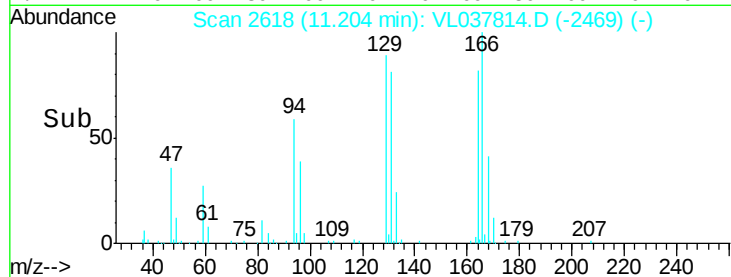
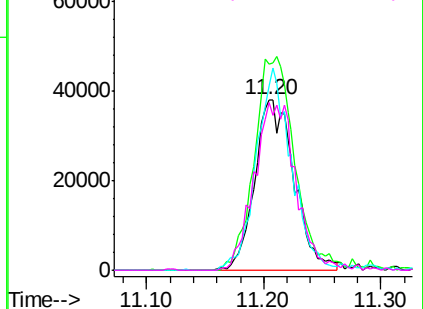


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.096 ppbv m

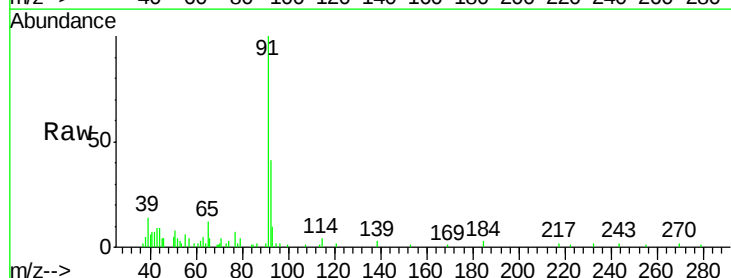
RT: 9.79 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL037814.D

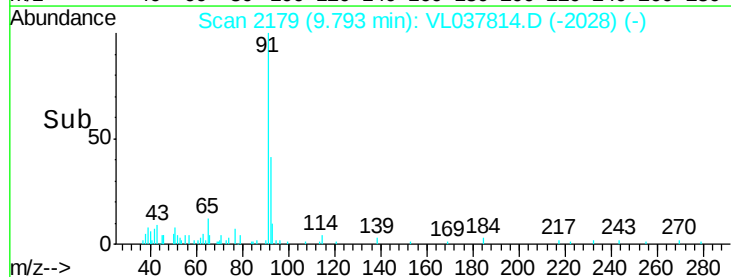
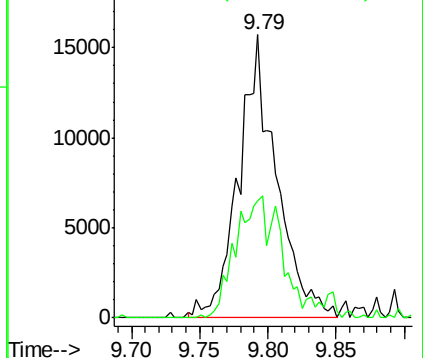
Acq: 8 Oct 2021 2:58

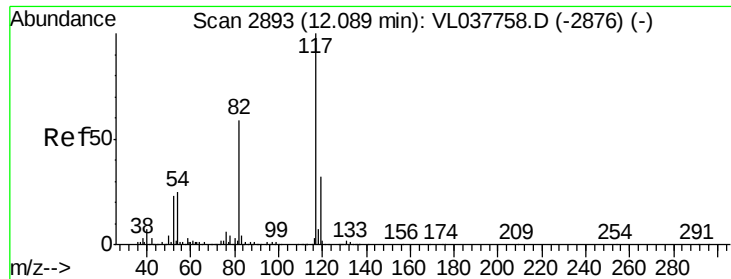
Tgt Ion:	91	Resp:	30167
Ion Ratio	Lower	Upper	
91	100		
92	0.0	48.4	72.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





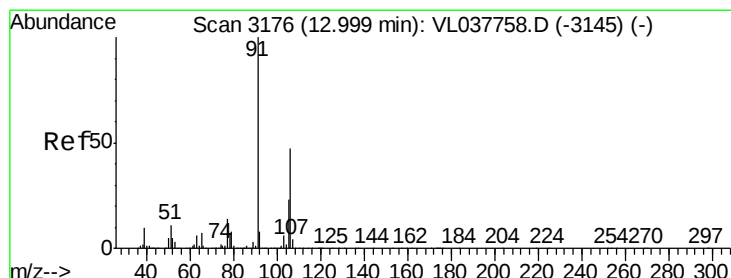
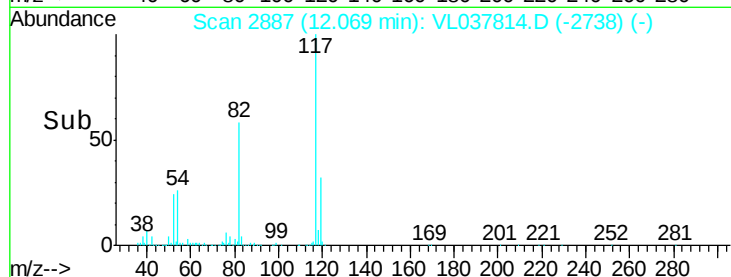
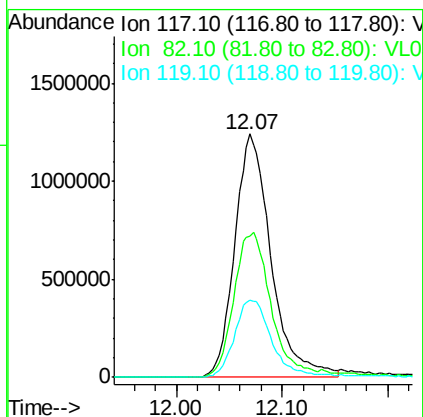
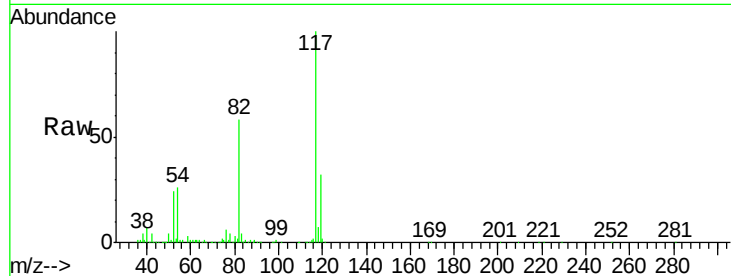
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. -0.02 min
Lab File: VL037814.D
Acq: 8 Oct 2021 2:58

Instrument :
MSVOA_L
ClientSampleId :
C0P02

Tgt Ion	Ratio	Lower	Upper
117	100		
82	63.8	52.2	78.2
119	34.3	26.0	39.0

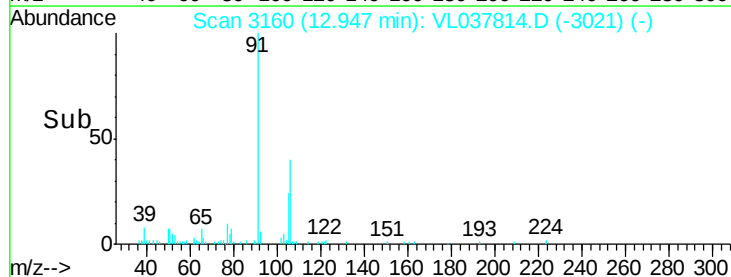
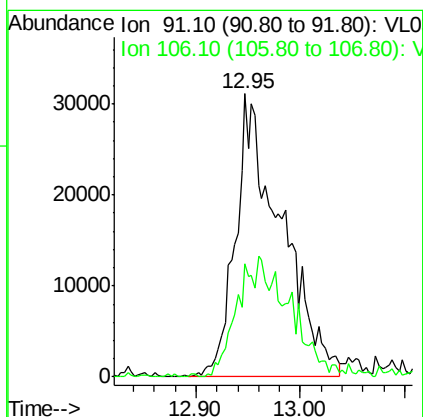
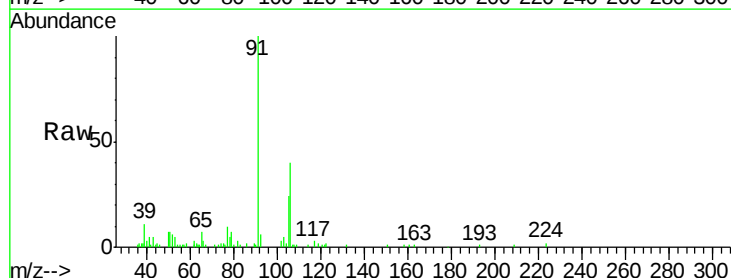
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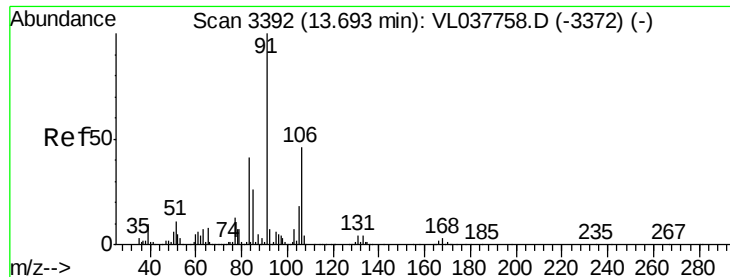
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#59
m/p-Xylene
Concen: 0.275 ppbv m
RT: 12.95 min Scan# 3160
Delta R.T. -0.05 min
Lab File: VL037814.D
Acq: 8 Oct 2021 2:58

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





#60

o-Xylene

Concen: 0.105 ppbv m

RT: 13.67 min Scan# 3386

Delta R.T. -0.02 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Instrument :

MSVOA_L

ClientSampleId :

C0P02

Tgt Ion: 91 Resp: 34513

Ion Ratio Lower Upper

91 100

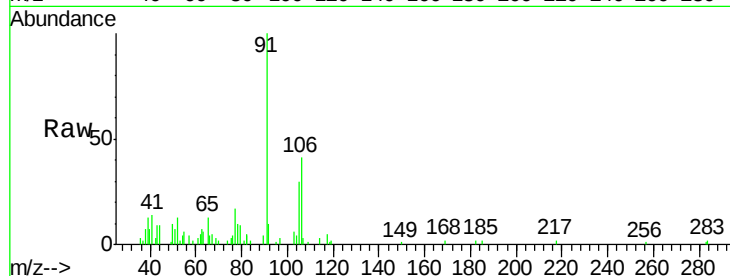
106 0.0 23.5 70.5#

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

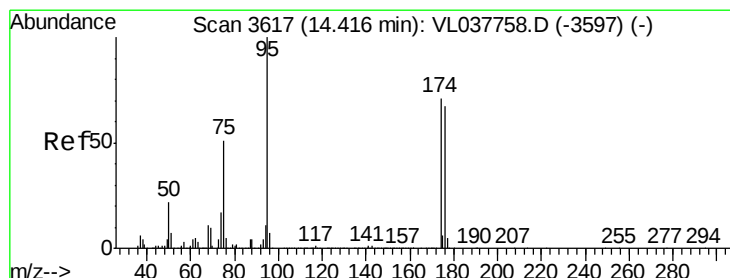
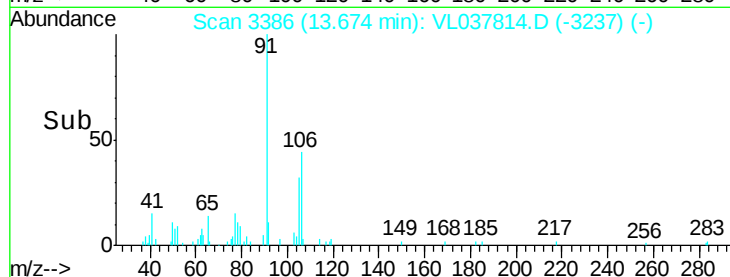
13.67

10000

5000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.262 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. -0.02 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

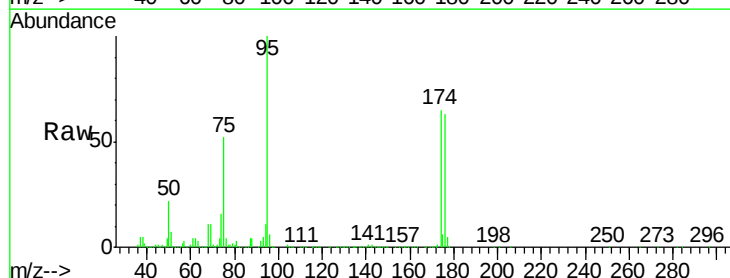
Tgt Ion: 95 Resp: 2131190

Ion Ratio Lower Upper

95 100

174 74.5 57.8 86.6

175 5.6 4.7 7.1



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.40

1000000

800000

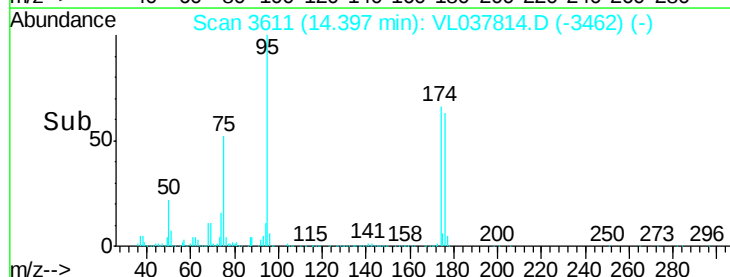
600000

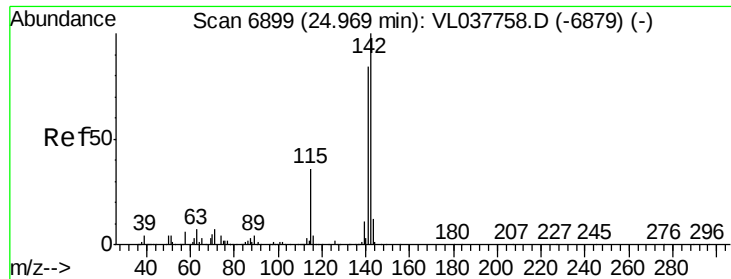
400000

200000

0

Time-->





#80
 Naphthalene, 2-methyl-
 Concen: 0.037 ppbv
 RT: 24.95 min Scan# 6894
 Delta R.T. -0.02 min
 Lab File: VL037814.D
 Acq: 8 Oct 2021 2:58

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P02

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.3	68.6	102.8
115	31.6	29.0	43.6

Manual Integrations
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