

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110221\
 Data File : VL037969.D
 Acq On : 2 Nov 2021 15:51
 Operator : SY/AP
 Sample : M4447-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Quant Time: Nov 03 03:49:24 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 02 05:54:07 2021
 QLast Update : Tue Nov 02 05:54:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1365661	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3814286	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3439827	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2418602	9.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

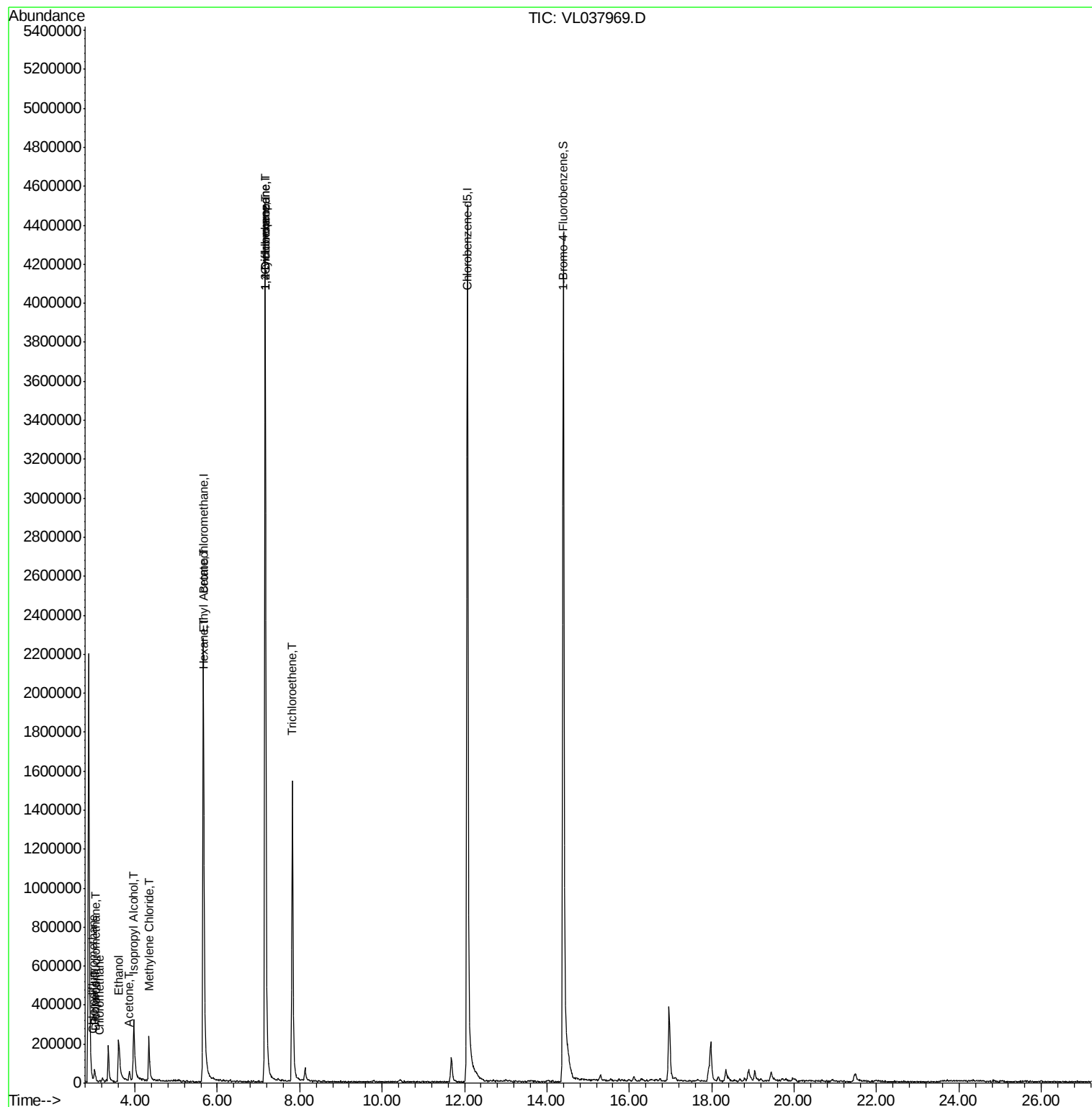
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	8837	0.046	ppbv	99
3) Chlorodifluoromethane	2.99	51	12471	0.049	ppbv #	78
4) Chloromethane	3.14	50	5595	0.058	ppbv #	44
9) Propene	3.02	41	14903	0.163	ppbv	95
13) Ethanol	3.61	45	330058	35.893	ppbv	97
15) Acetone	3.85	43	23610	0.209	ppbv #	24
19) Isopropyl Alcohol	3.97	45	456667	6.328	ppbv	97
20) Methylene Chloride	4.34	84	96347	1.555	ppbv	93
25) Ethyl Acetate	5.67	43	10588	0.032	ppbv #	76
26) Hexane	5.68	57	30146	0.190	ppbv #	41
30) Cyclohexane	7.15	84	6040	0.044	ppbv #	1
38) Trichloroethene	7.82	130	559714	4.341	ppbv	95
39) 1,2-Dichloropropane	7.16	63	908450	7.773	ppbv #	27

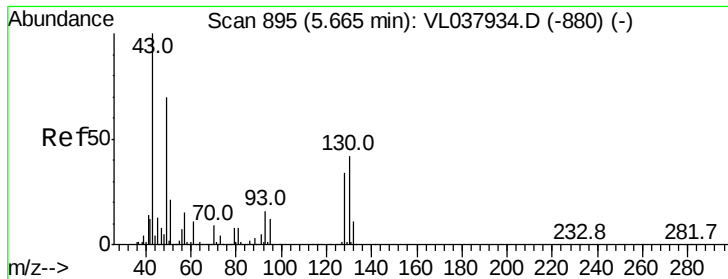
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 02 05:54:07 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 2 Nov 2021 15:51

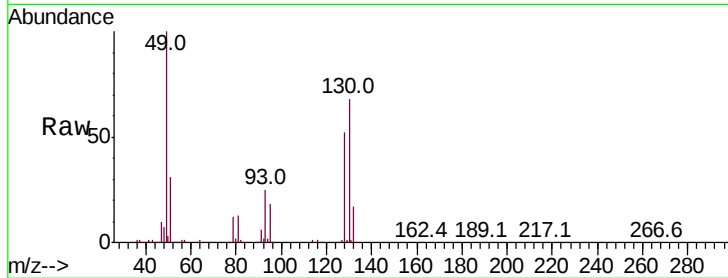
Tot Ion: 49 Resp: 1365661

Ion Ratio Lower Upper

49 100

128 53.1 27.0 81.0

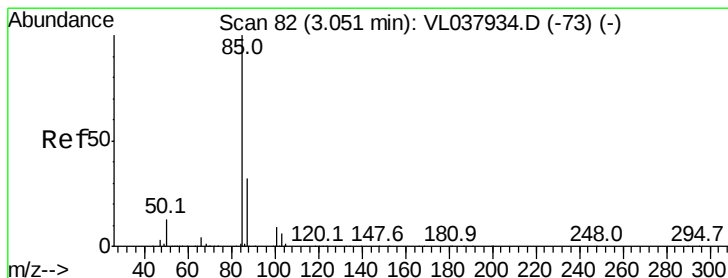
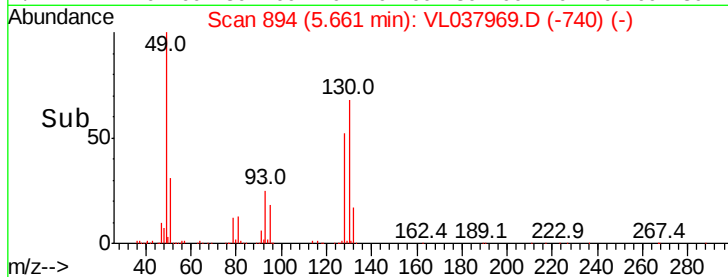
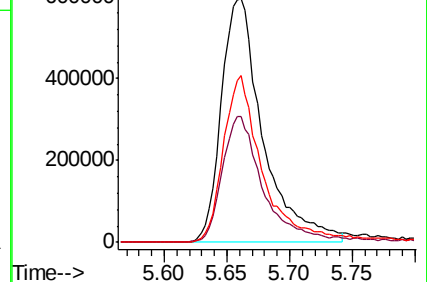
130 67.7 33.4 100.2



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: 0.046 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL037969.D

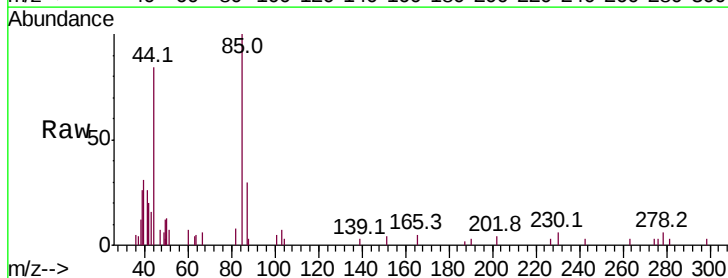
Acq: 2 Nov 2021 15:51

Tgt Ion: 85 Resp: 8837

Ion Ratio Lower Upper

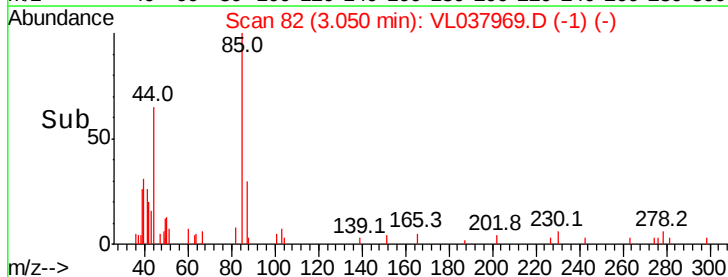
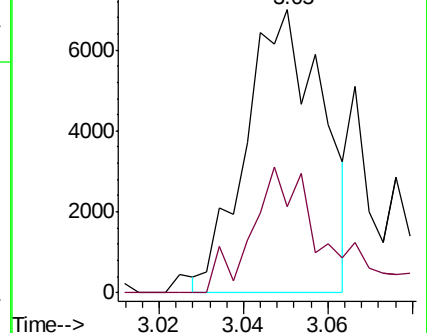
85 100

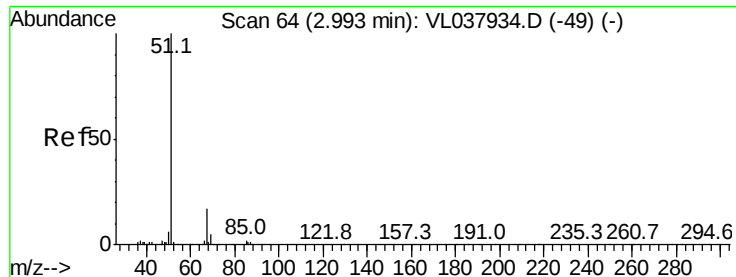
87 32.2 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.049 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-1DL

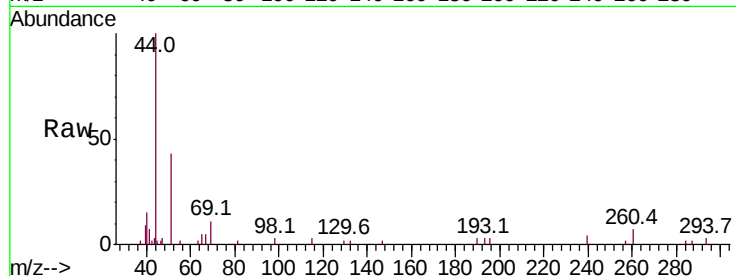
Acq: 2 Nov 2021 15:51

Tot Ion: 51 Resp: 12471

Ion Ratio Lower Upper

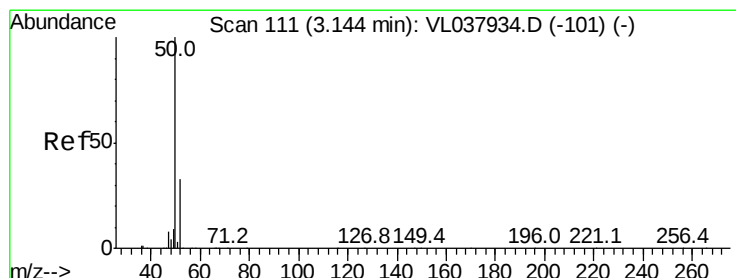
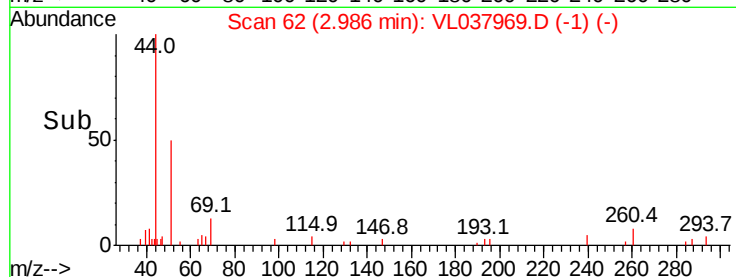
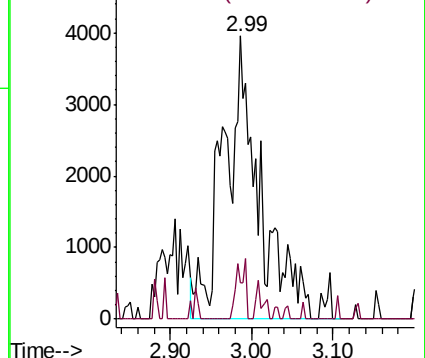
51 100

67 7.3 13.4 20.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.058 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL037969.D

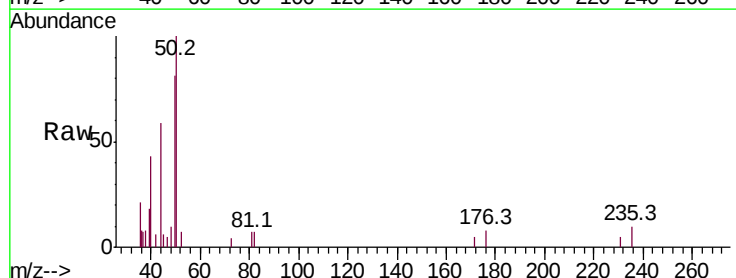
Acq: 2 Nov 2021 15:51

Tgt Ion: 50 Resp: 5595

Ion Ratio Lower Upper

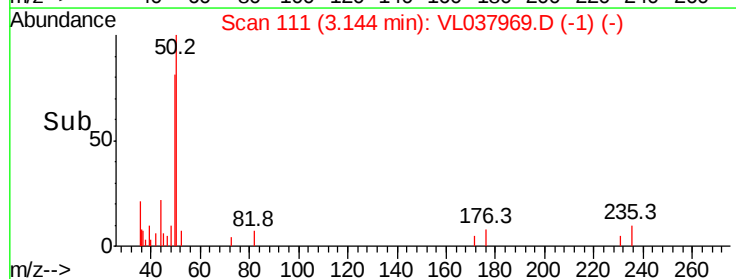
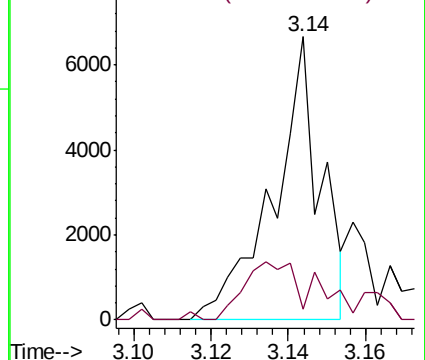
50 100

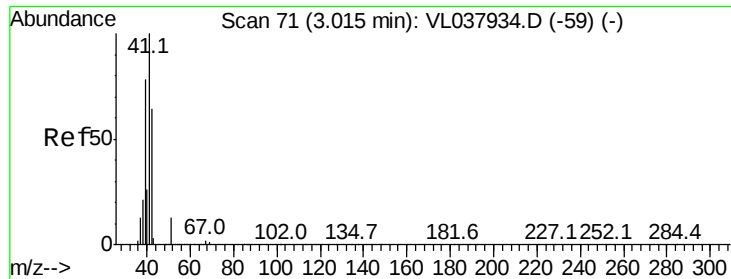
52 1.1 26.3 39.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.163 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

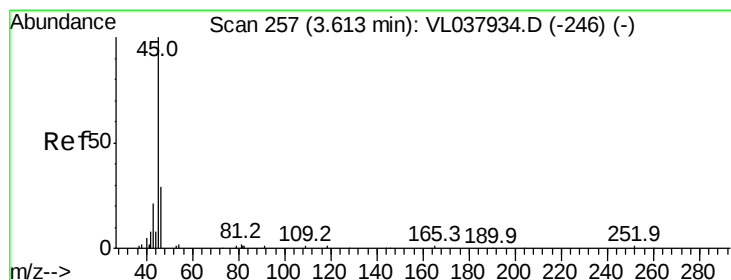
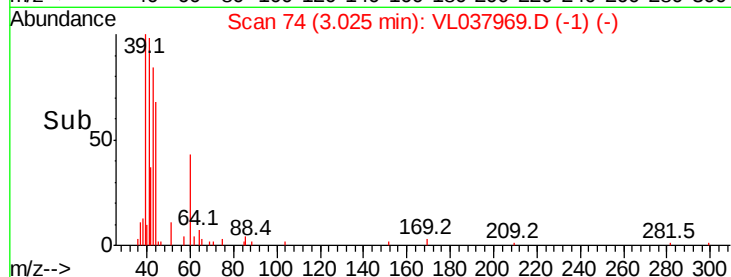
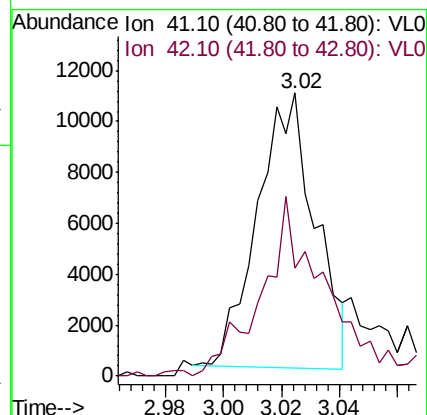
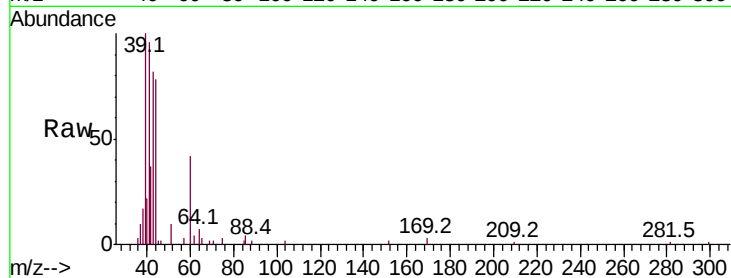
Acq: 2 Nov 2021 15:51

Tot Ion: 41 Resp: 14903

Ion Ratio Lower Upper

41 100

42 76.3 57.6 86.4



#13

Ethanol

Concen: 35.893 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.01 min

Lab File: VL037969.D

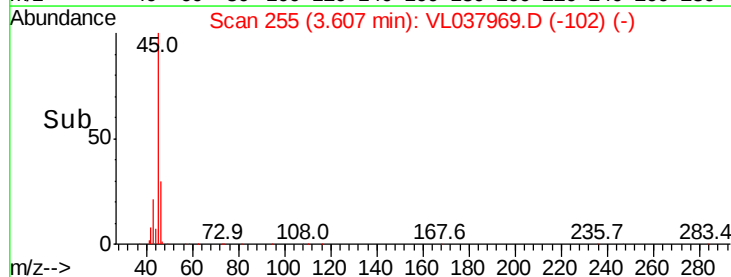
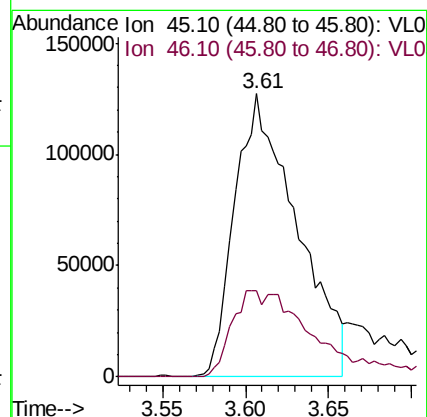
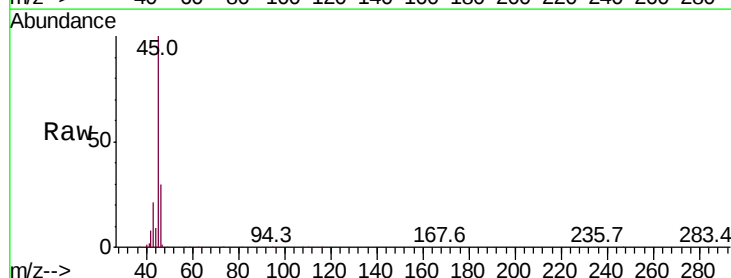
Acq: 2 Nov 2021 15:51

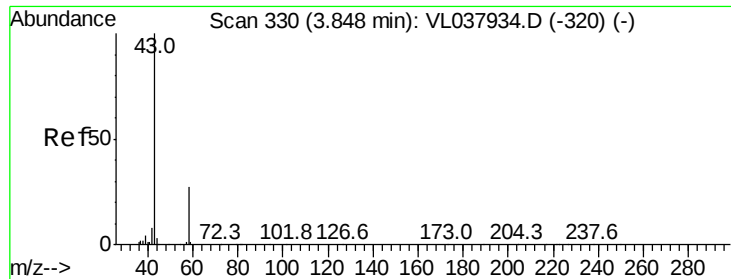
Tgt Ion: 45 Resp: 330058

Ion Ratio Lower Upper

45 100

46 41.7 17.4 69.8





#15

Acetone

Concen: 0.209 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

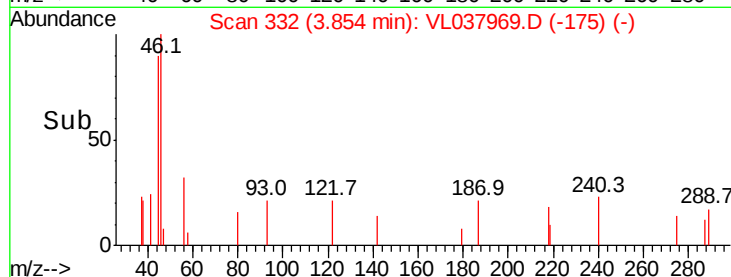
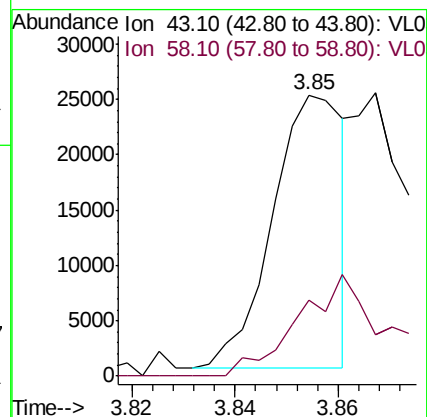
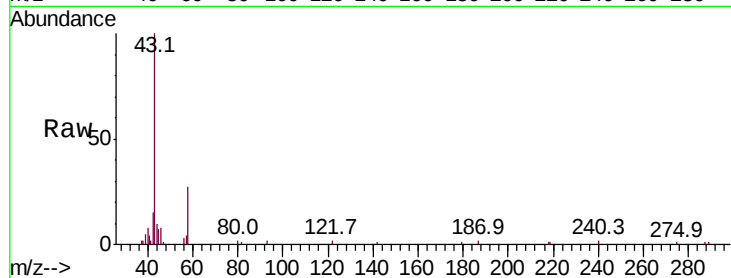
Acq: 2 Nov 2021 15:51

Tot Ion: 43 Resp: 23610

Ion Ratio Lower Upper

43 100

58 69.5 23.3 34.9#



#19

Isopropyl Alcohol

Concen: 6.328 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL037969.D

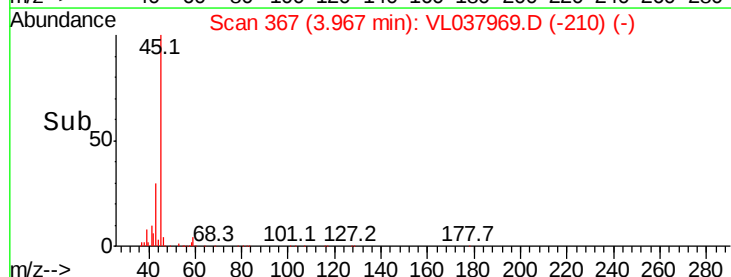
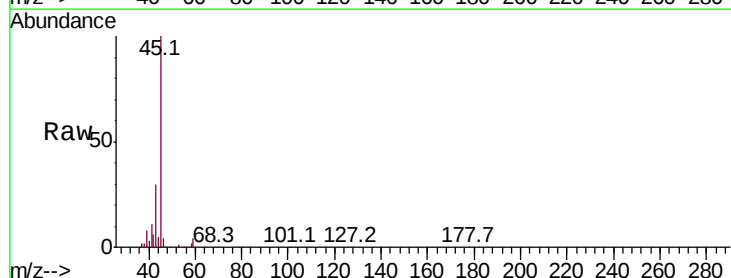
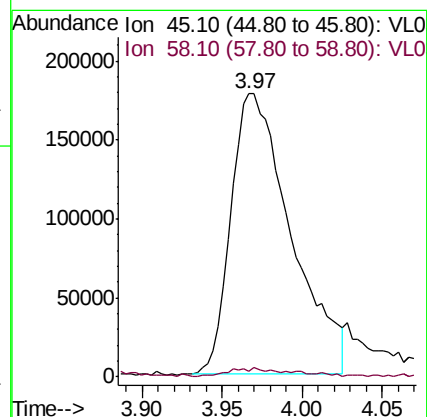
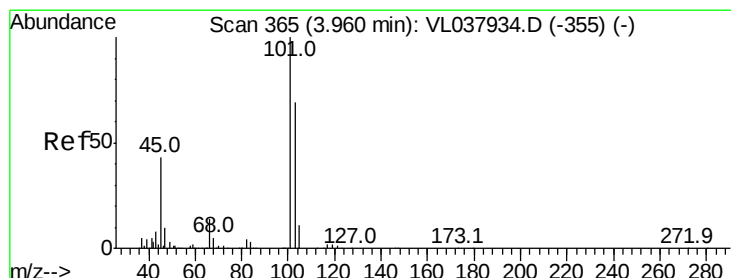
Acq: 2 Nov 2021 15:51

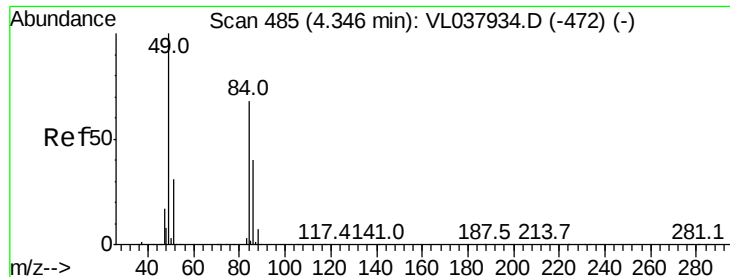
Tgt Ion: 45 Resp: 456667

Ion Ratio Lower Upper

45 100

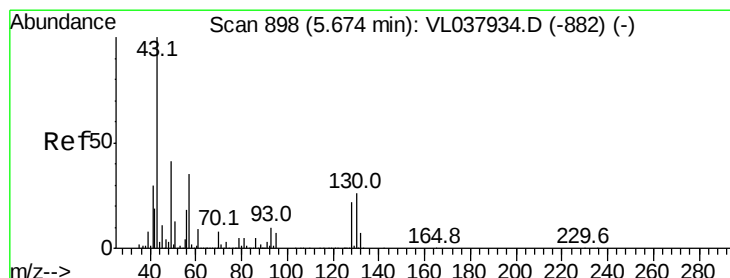
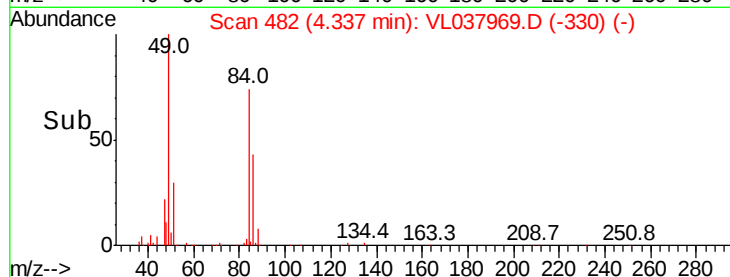
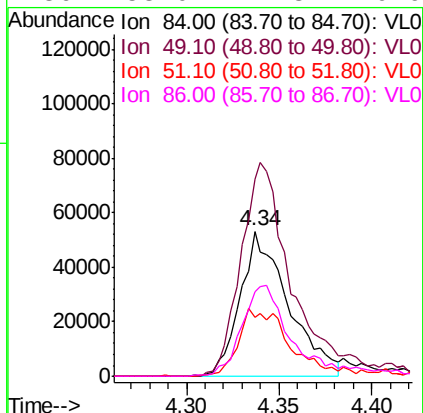
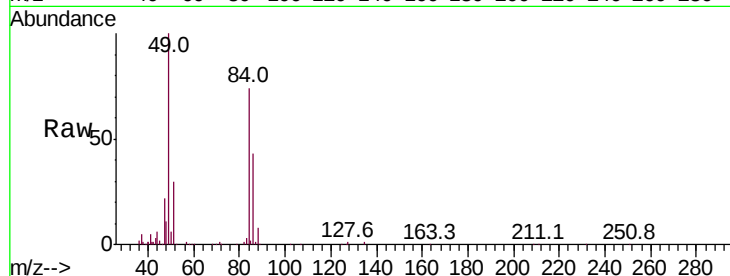
58 4.0 4.0 6.0





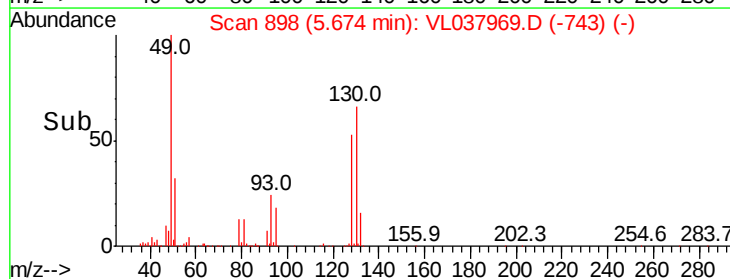
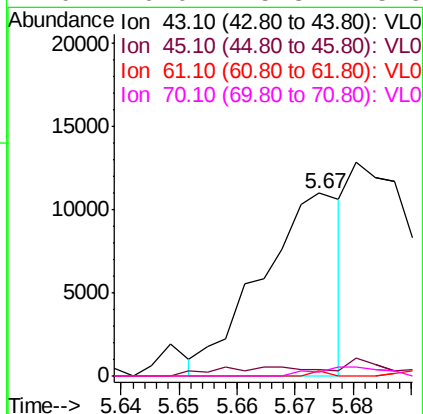
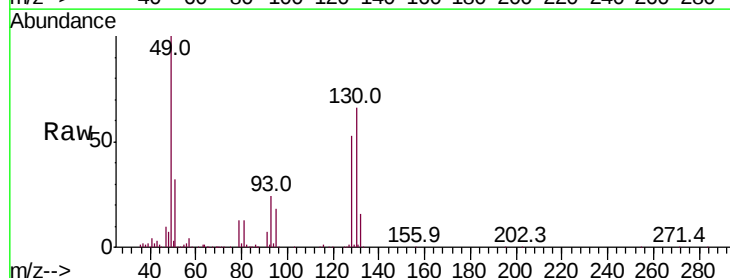
#20
Methvlene Chloride
Concen: 1.555 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Nov 2021 15:51

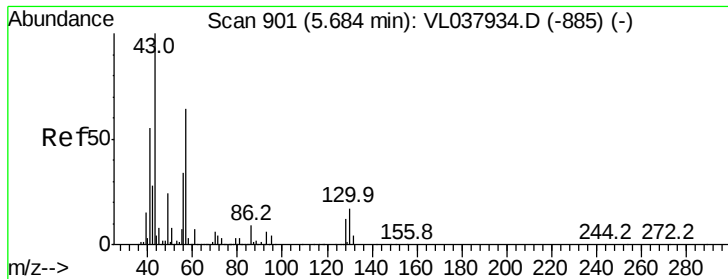
Tot Ion:	84	Resp:	96347
Ion	Ratio	Lower	Upper
84	100		
49	136.0	117.5	176.3
51	40.5	35.9	53.9
86	58.0	47.3	70.9



#25
Ethyl Acetate
Concen: 0.032 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL037969.D
Acq: 2 Nov 2021 15:51

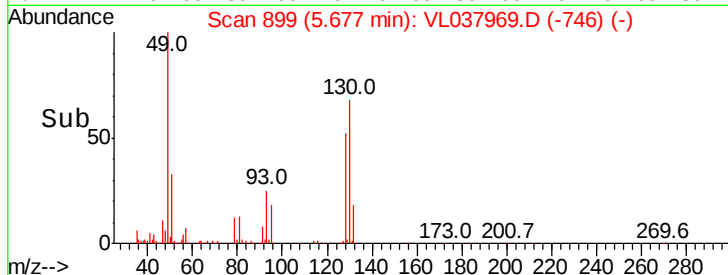
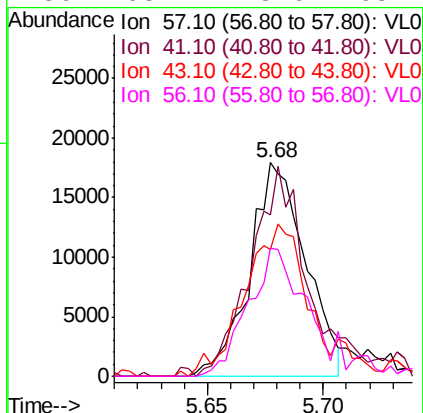
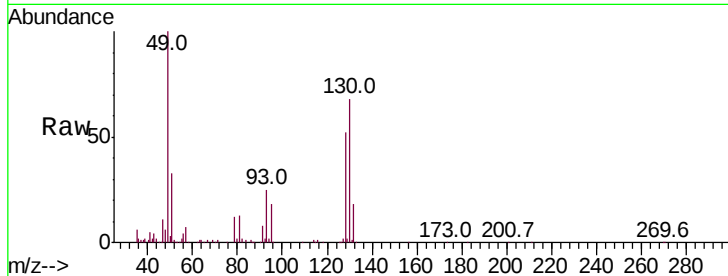
Tgt Ion:	43	Resp:	10588
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	1.8	8.1	12.1#
70	0.0	5.8	8.6#





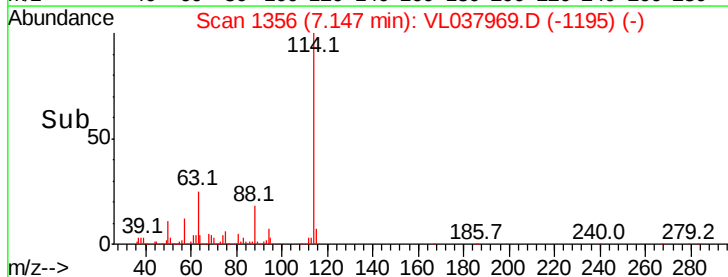
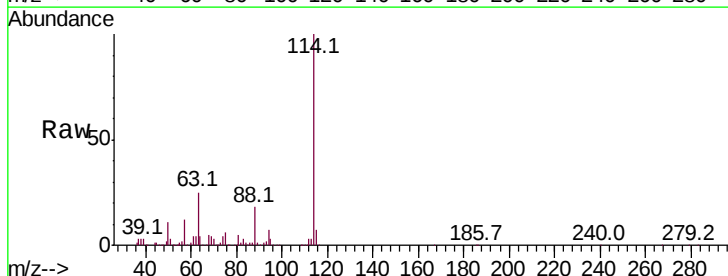
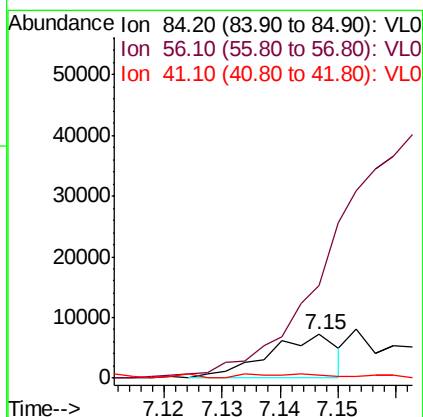
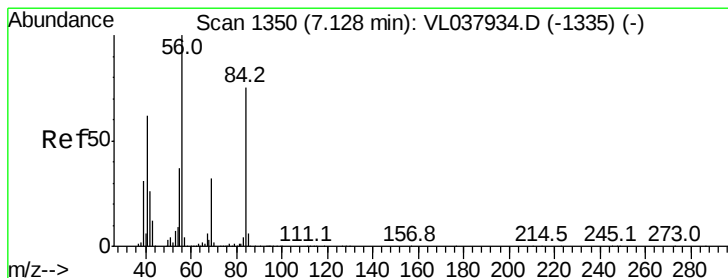
#26
Hexane
Concen: 0.190 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Nov 2021 15:51

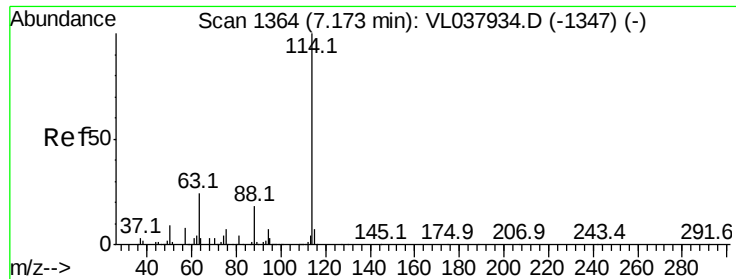
Tot Ion: 57 Resp: 30146
Ion Ratio Lower Upper
57 100
41 110.8 71.0 106.6#
43 83.2 173.0 259.6#
56 68.2 43.6 65.4#



#30
Cyclohexane
Concen: 0.044 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. 0.02 min
Lab File: VL037969.D
Acq: 2 Nov 2021 15:51

Tgt Ion: 84 Resp: 6040
Ion Ratio Lower Upper
84 100
56 0.0 114.0 171.0#
41 19.8 68.3 102.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument: MSVOA_1

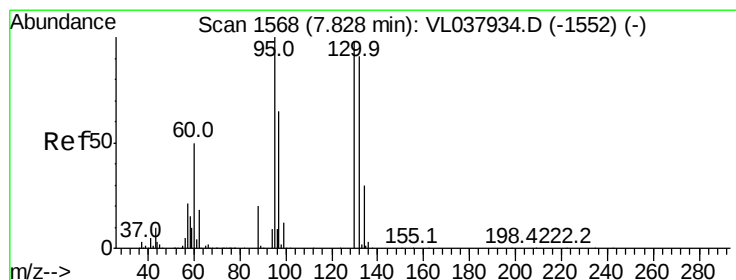
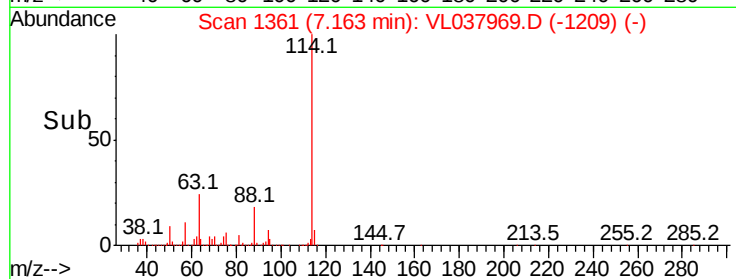
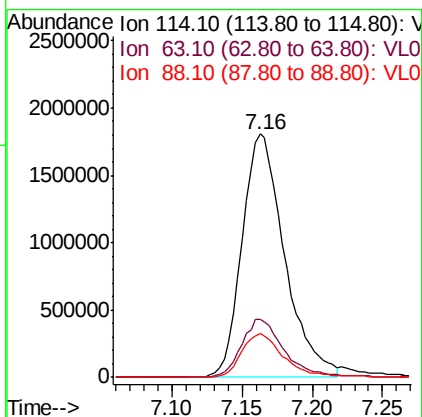
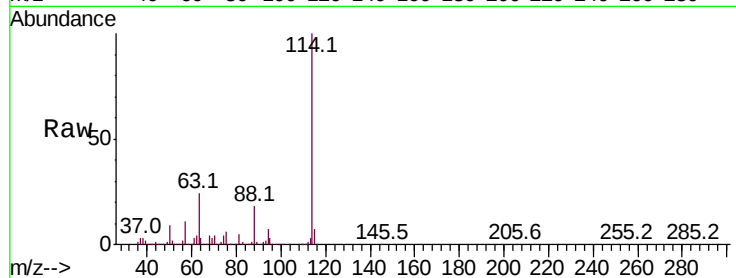
Delta R.T. ClientSampleId:

Lab File: IA-1DL

Acq: 2 Nov 2021 15:51

Tot Ion:114 Resp: 3814286

Ion	Ratio	Lower	Upper
114	100		
63	24.4	19.4	29.0
88	17.9	14.2	21.4



#38

Trichloroethene

Concen: 4.341 ppbv

RT: 7.82 min Scan# 1566

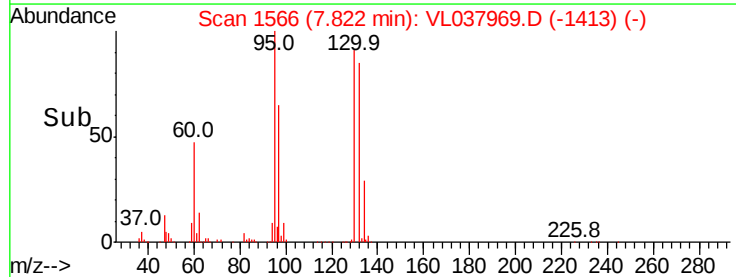
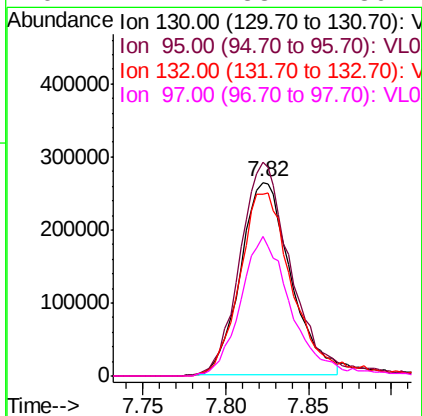
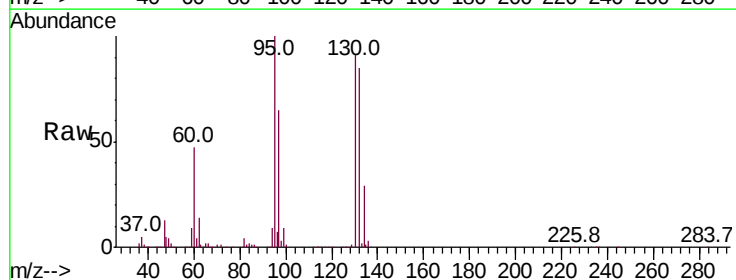
Delta R.T. -0.01 min

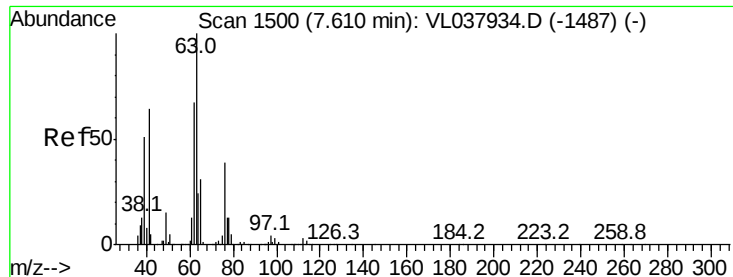
Lab File: VL037969.D

Acq: 2 Nov 2021 15:51

Tgt Ion:130 Resp: 559714

Ion	Ratio	Lower	Upper
130	100		
95	110.2	81.8	122.8
132	93.9	74.2	111.2
97	72.1	53.4	80.2





#39

1,2-Dichloropropane

Concen: 7.773 ppbv

RT: 7.16

Instrument: MSVOA_1

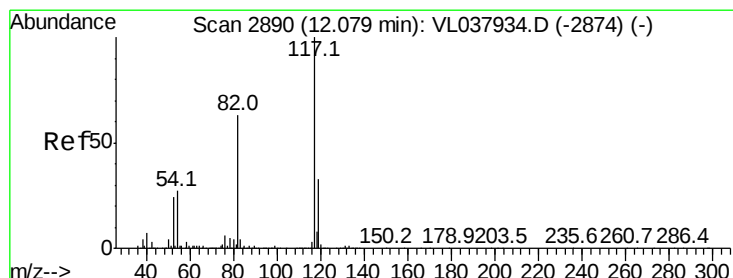
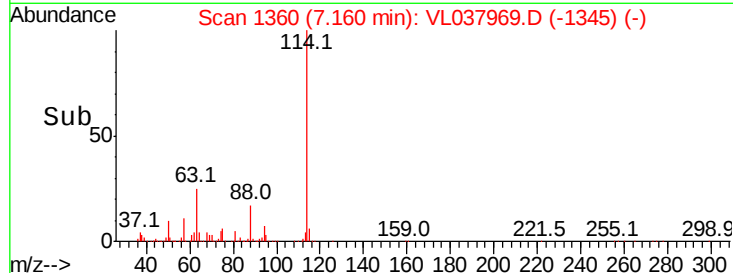
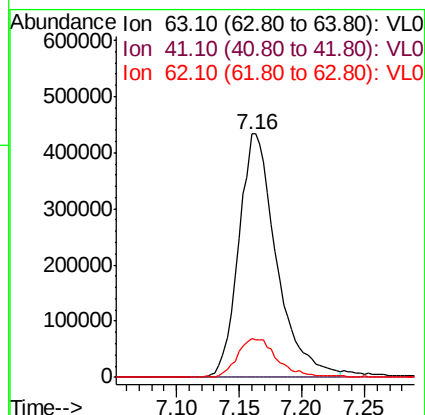
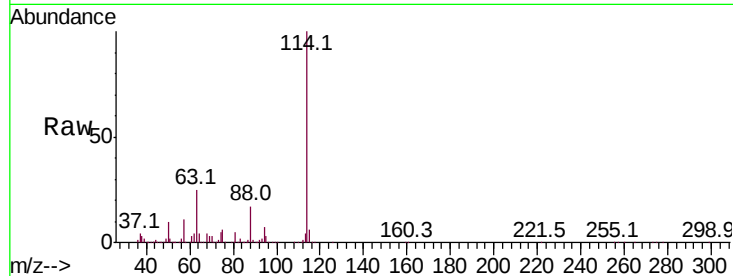
Delta R.T.

Lab File: ClientSampleId:

Acq: 2 Nov 2021 15:51

Tot Ion: 63 Resp: 908450

Ion	Ratio	Lower	Upper
63	100		
41	0.0	51.6	77.4#
62	16.0	53.5	80.3#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

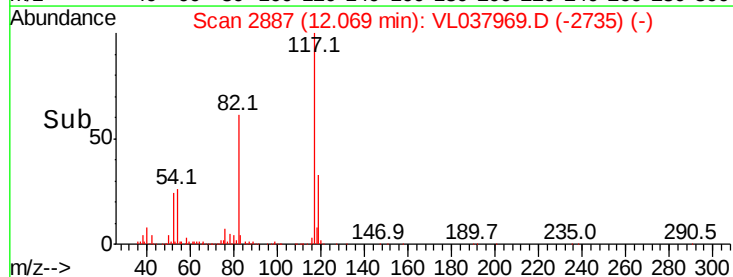
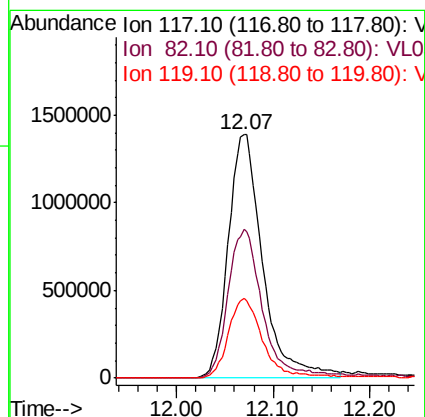
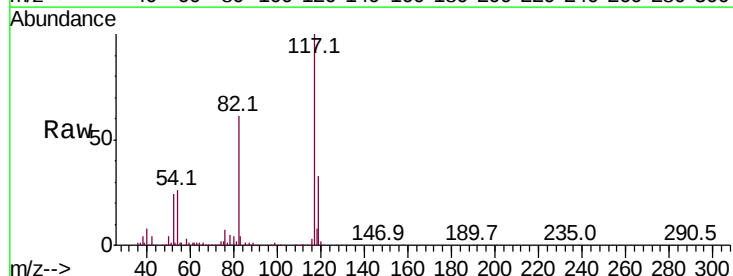
Delta R.T. -0.01 min

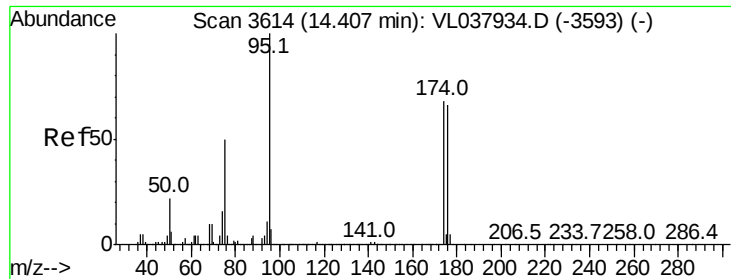
Lab File: VL037969.D

Acq: 2 Nov 2021 15:51

Tgt Ion: 117 Resp: 3439827

Ion	Ratio	Lower	Upper
117	100		
82	62.6	51.0	76.6
119	33.9	26.9	40.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.673 ppbv

RT: 14.40

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 2 Nov 2021 13:51

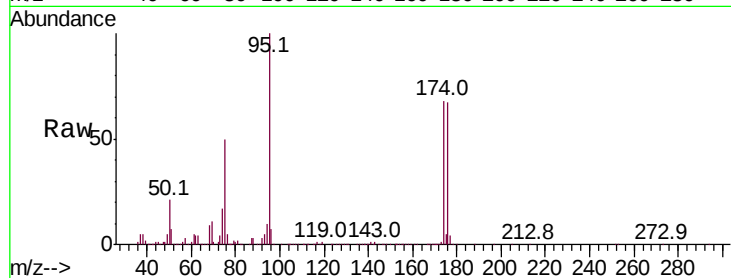
Tot Ion: 95 Resp: 2418602

Ion Ratio Lower Upper

95 100

174 74.2 58.3 87.5

175 5.8 4.6 6.8



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

