

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
 Data File : VL037812.D
 Acq On : 8 Oct 2021 1:39
 Operator : SY/AP
 Sample : M4079-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P46

Quant Time: Oct 08 10:08:35 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 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	1326690	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	3716956	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3171065	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2281222	10.29	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

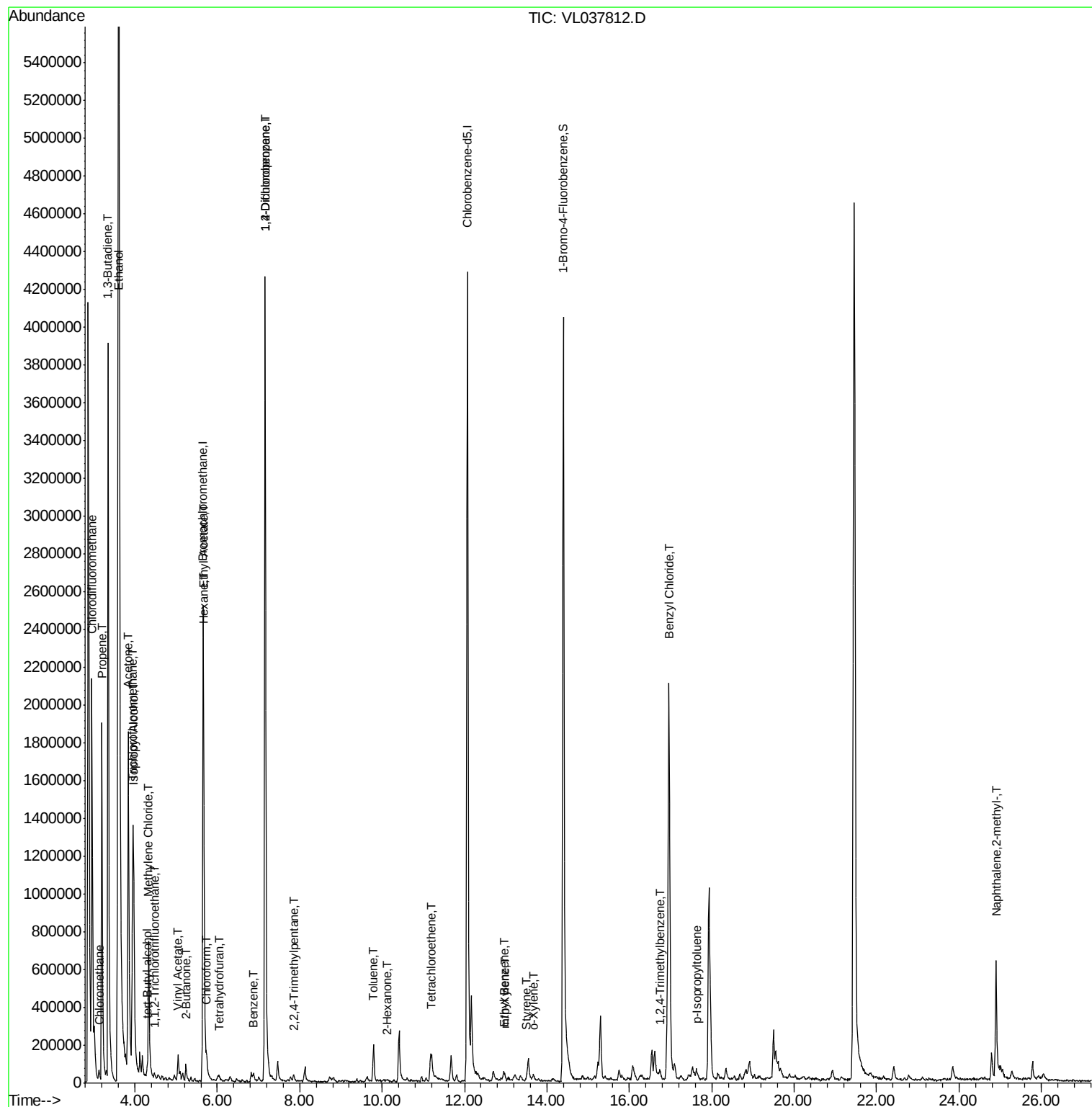
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.96	51	1747262	6.854	ppbv #	62
4) Chloromethane	3.13	50	16603	0.178	ppbv	95
9) Propene	3.20	41	599113	6.387	ppbv	90
11) Trichlorofluoromethane	3.94	101	819345	4.334	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.48	101	5828	0.041	ppbv #	27
13) Ethanol	3.60	45	13774958	1795.812	ppbv	83
15) Acetone	3.83	43	2282962	19.169	ppbv	100
16) 1,3-Butadiene	3.35	39	573276	6.616	ppbv #	13
17) tert-Butyl alcohol	4.30	59	25541	0.208	ppbv	98
19) Isopropyl Alcohol	3.97	45	1360459	18.361	ppbv #	97
20) Methylene Chloride	4.34	84	283959	4.719	ppbv	99
23) Vinyl Acetate	5.05	43	50407	0.282	ppbv #	8
25) Ethyl Acetate	5.67	43	221335	0.662	ppbv #	91
26) Hexane	5.67	57	196652	1.195	ppbv #	61
29) Chloroform	5.74	83	63013	0.268	ppbv	93
34) 2-Butanone	5.24	43	96221	0.641	ppbv #	90
36) Benzene	6.88	78	26773	0.084	ppbv	95
39) 1,2-Dichloropropane	7.16	63	877359	7.347	ppbv #	28
41) Tetrahydrofuran	6.04	42	8937	0.122	ppbv	91
44) 2,2,4-Trimethylpentane	7.85	57	11305	0.021	ppbv #	43
51) 2-Hexanone	10.12	43	2455	0.028	ppbv #	29
52) Tetrachloroethene	11.20	164	7391	0.060	ppbv #	78
53) Toluene	9.80	91	136554	0.388	ppbv	98
58) Ethyl Benzene	12.95	91	23721	0.056	ppbv	90
59) m/p-Xylene	12.98	91	8124	0.022	ppbv #	30
60) o-Xylene	13.67	91	10954	0.031	ppbv #	30
61) Styrene	13.50	104	5846	0.035	ppbv #	27
66) Benzyl Chloride	16.97	91	573	0.027	ppbv #	81
69) p-Isopropyltoluene	17.63	119	15977	0.034	ppbv #	48
74) 1,2,4-Trimethylbenzene	16.73	105	10006	0.026	ppbv #	62
80) Naphthalene,2-methyl-	24.90	142	1252	0.020	ppbv #	1

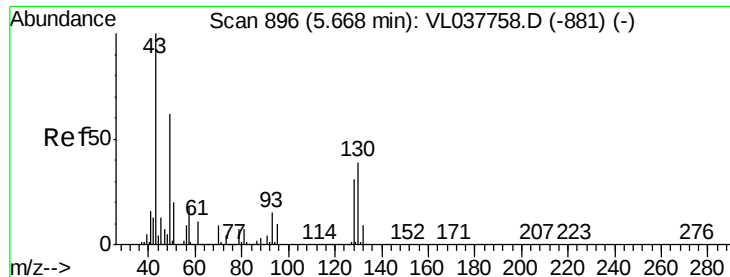
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VL037812.D

Acq: 8 Oct 2021 1:39

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C0P46

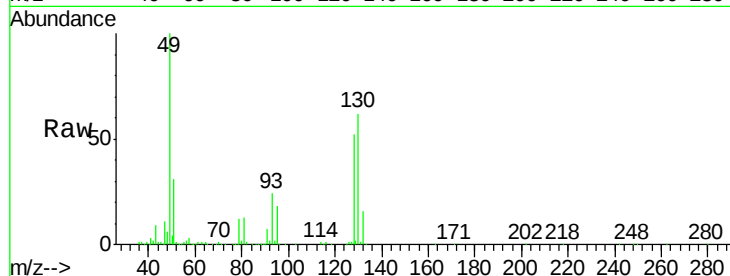
Tgt Ion: 49 Resp: 1326690

Ion Ratio Lower Upper

49 100

128 52.2 27.1 81.3

130 67.1 33.2 99.6



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

5.65

800000

600000

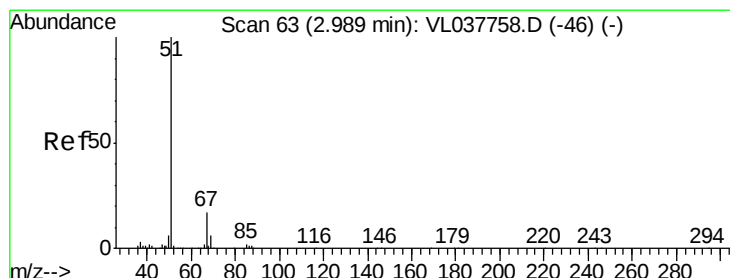
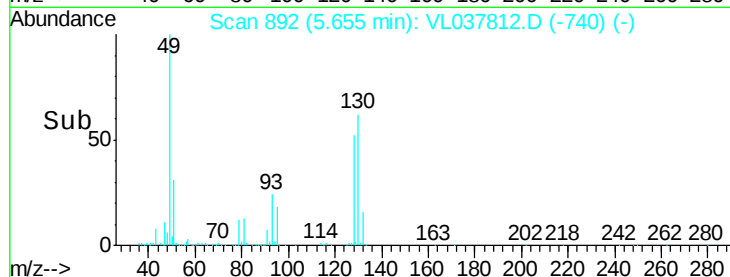
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#3

Chlorodifluoromethane

Concen: 6.854 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.03 min

Lab File: VL037812.D

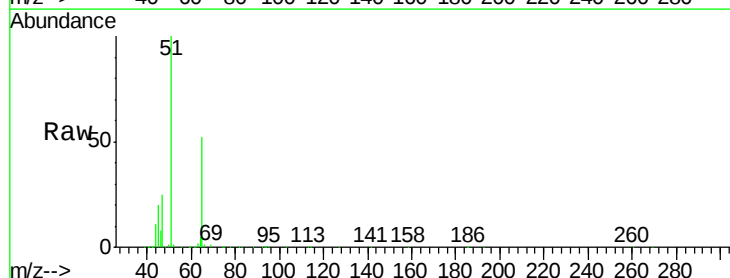
Acq: 8 Oct 2021 1:39

Tgt Ion: 51 Resp: 1747262

Ion Ratio Lower Upper

51 100

67 0.5 13.5 20.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.96

1000000

800000

600000

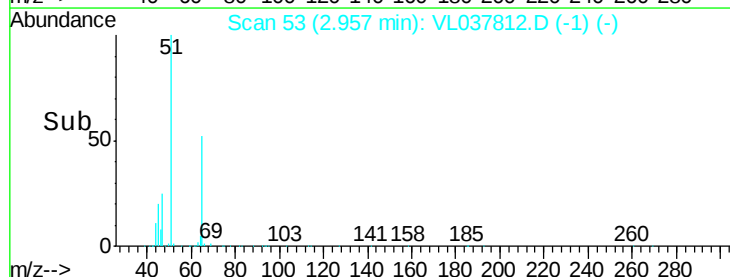
400000

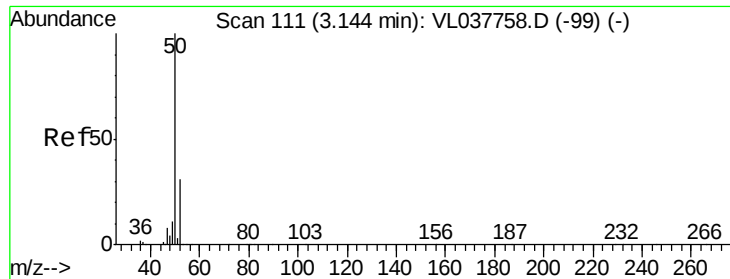
200000

0

2.80 2.90 3.00 3.20

Time-->





#4

Chloromethane

Concen: 0.178 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037812.D

Acq: 8 Oct 2021 1:39

Instrument :

MSVOA_L

ClientSampleId :

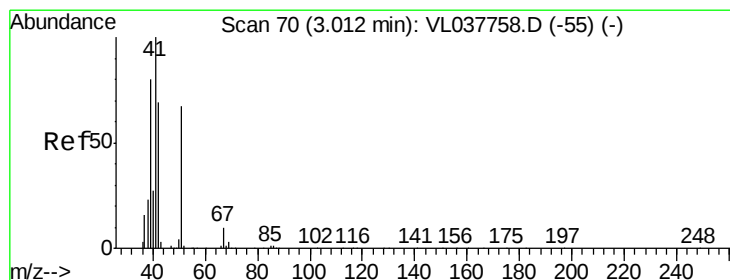
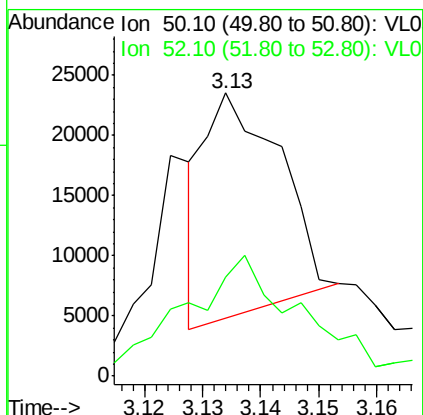
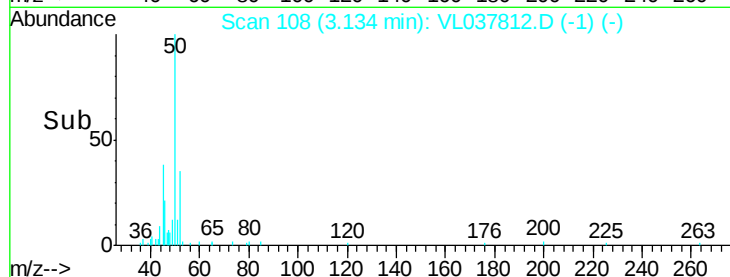
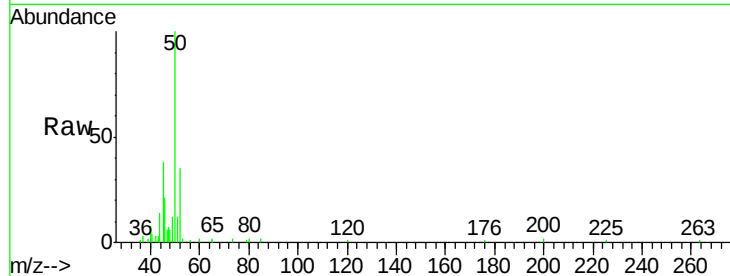
C0P46

Tgt Ion: 50 Resp: 16603

Ion Ratio Lower Upper

50 100

52 33.1 24.4 36.6



#9

Propene

Concen: 6.387 ppbv

RT: 3.20 min Scan# 128

Delta R.T. 0.19 min

Lab File: VL037812.D

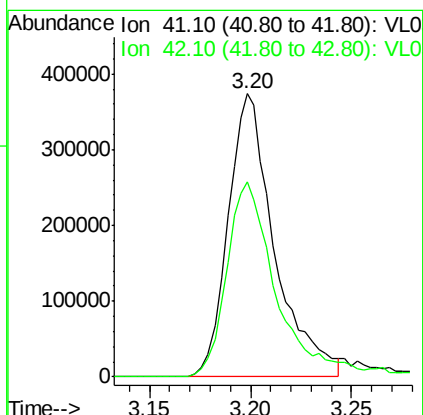
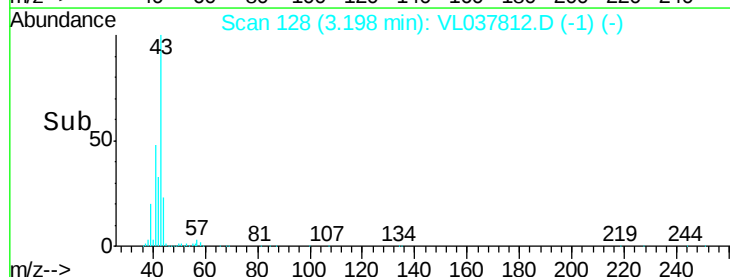
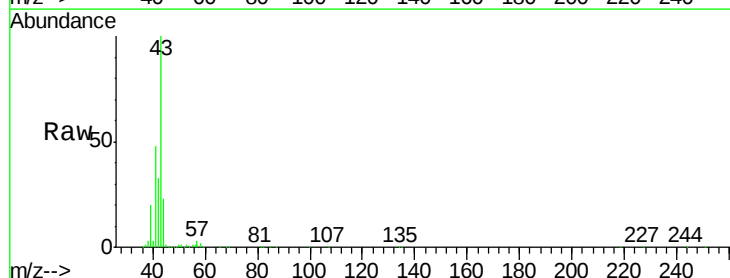
Acq: 8 Oct 2021 1:39

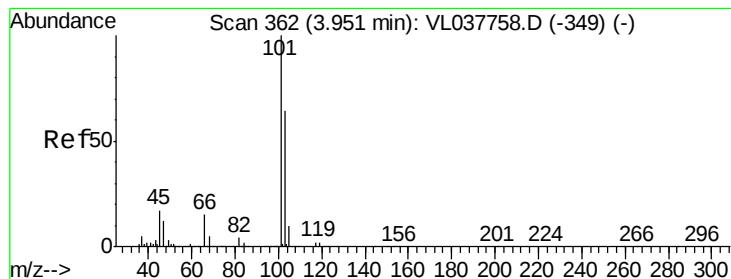
Tgt Ion: 41 Resp: 599113

Ion Ratio Lower Upper

41 100

42 75.4 54.2 81.2





#11

Trichlorofluoromethane

Concen: 4.334 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL037812.D

Acq: 8 Oct 2021 1:39

Instrument :

MSVOA_L

ClientSampleId :

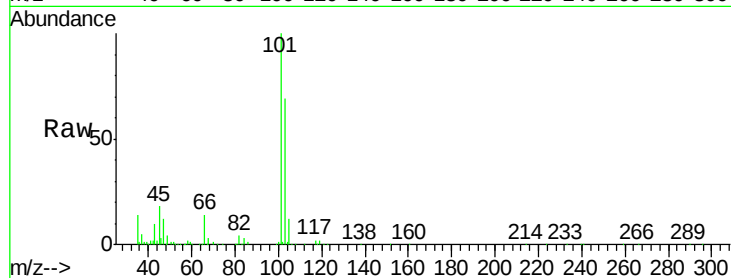
C0P46

Tgt Ion:101 Resp: 819345

Ion Ratio Lower Upper

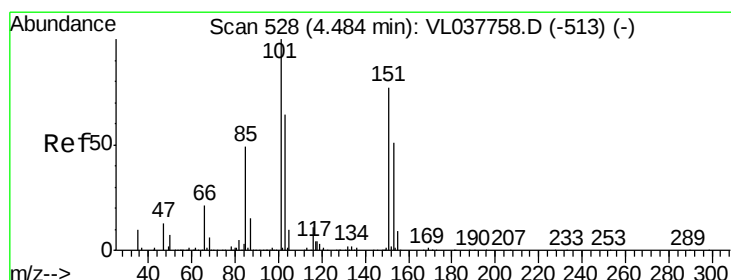
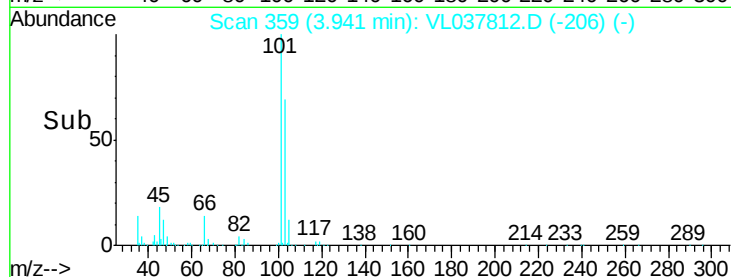
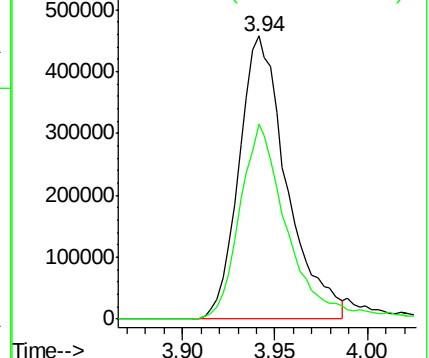
101 100

103 68.7 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.041 ppbv

RT: 4.48 min Scan# 526

Delta R.T. -0.01 min

Lab File: VL037812.D

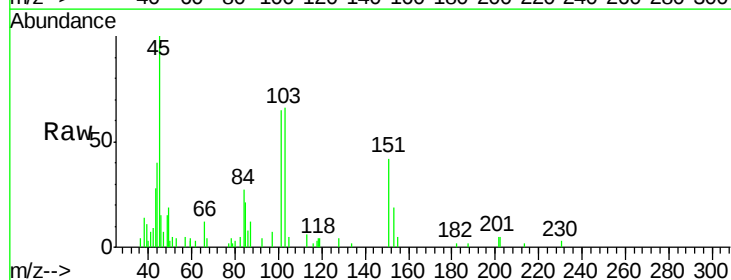
Acq: 8 Oct 2021 1:39

Tgt Ion:101 Resp: 5828

Ion Ratio Lower Upper

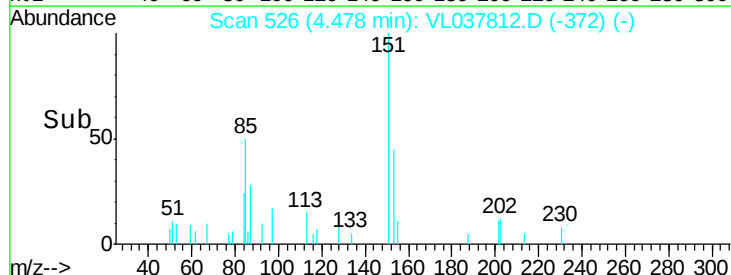
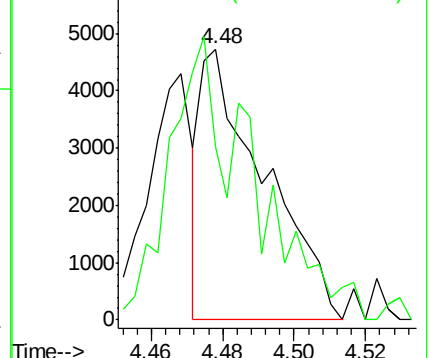
101 100

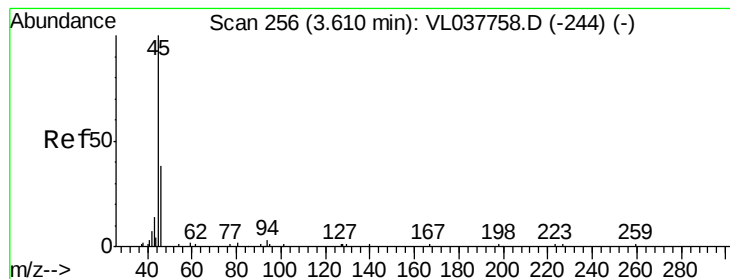
151 142.1 62.9 94.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 1795.812 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.01 min

Lab File: VL037812.D

Acq: 8 Oct 2021 1:39

Instrument :

MSVOA_L

ClientSampleId :

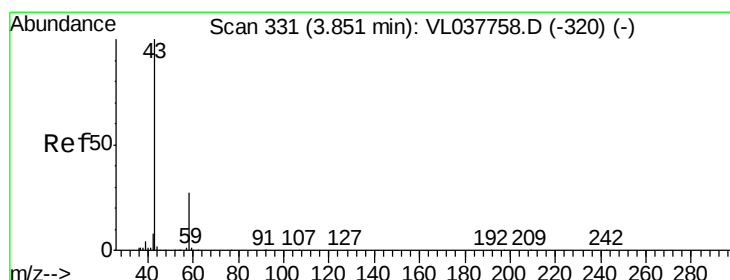
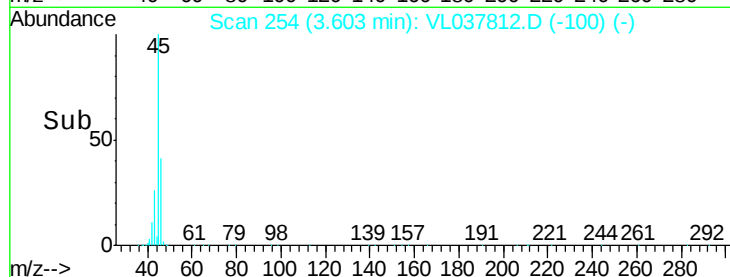
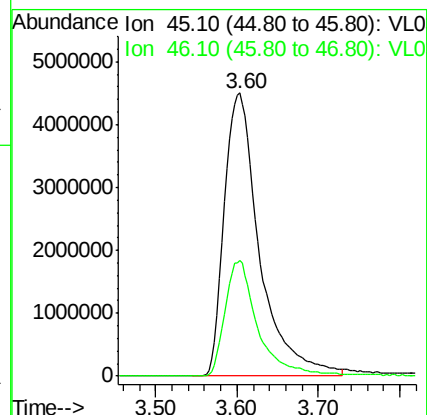
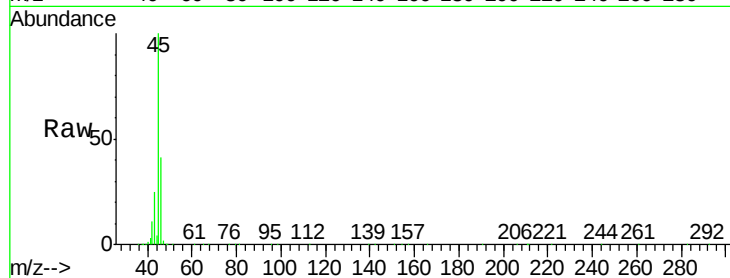
C0P46

Tgt Ion: 45 Resp:13774958

Ion Ratio Lower Upper

45 100

46 39.1 20.2 81.0



#15

Acetone

Concen: 19.169 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL037812.D

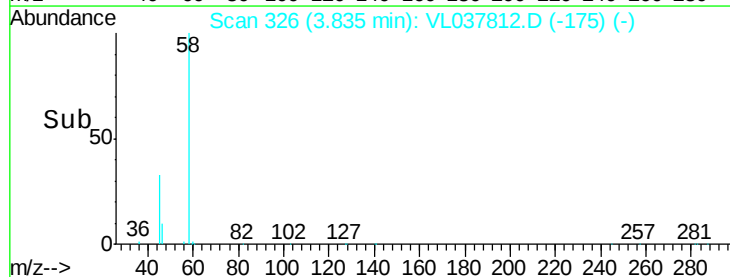
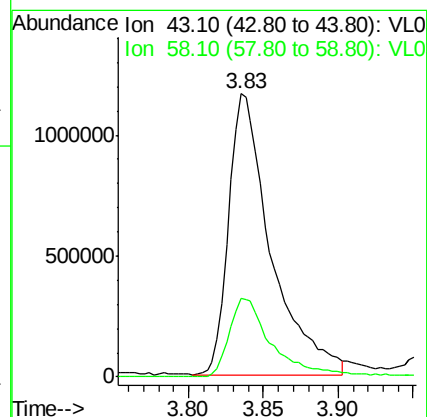
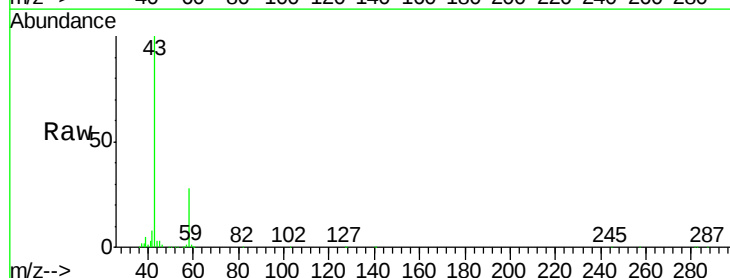
Acq: 8 Oct 2021 1:39

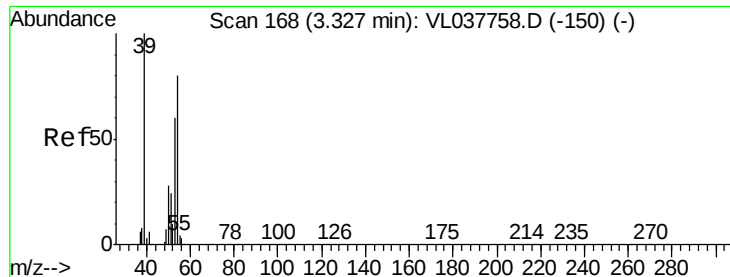
Tgt Ion: 43 Resp: 2282962

Ion Ratio Lower Upper

43 100

58 28.8 23.0 34.6

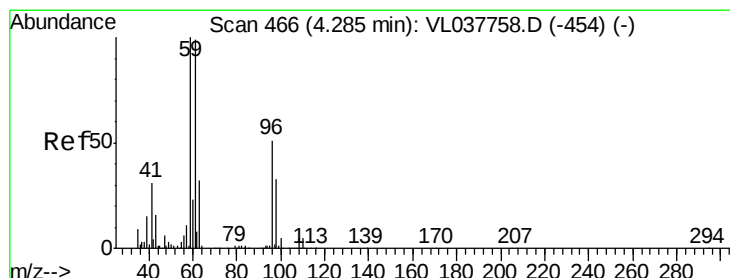
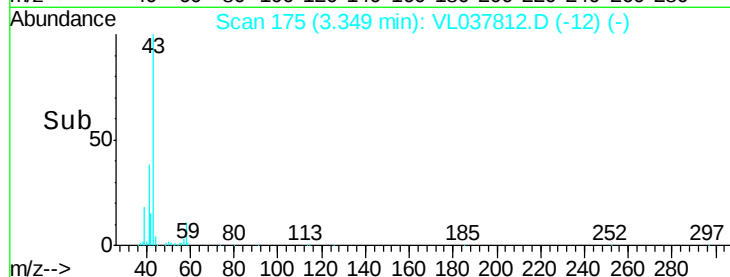
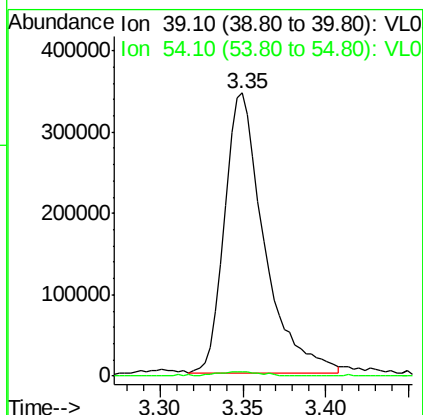
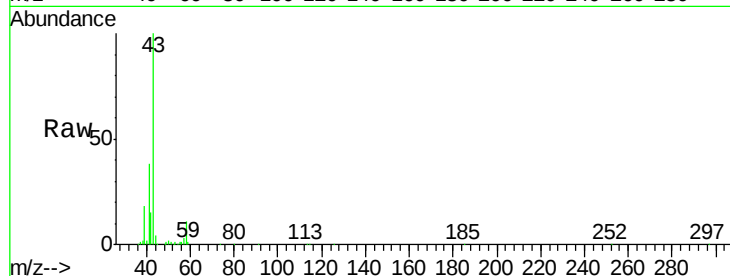




#16
 1,3-Butadiene
 Concen: 6.616 ppbv
 RT: 3.35 min Scan# 175
 Delta R.T. 0.02 min
 Lab File: VL037812.D
 Acq: 8 Oct 2021 1:39

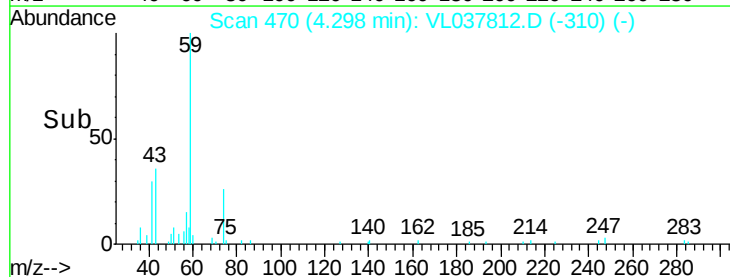
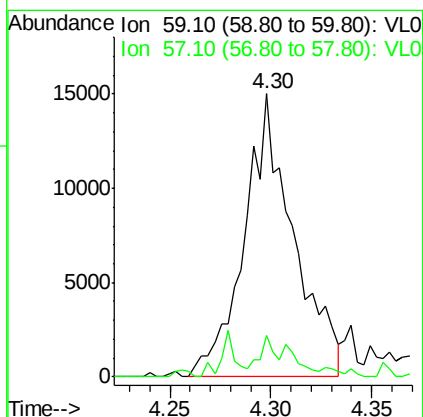
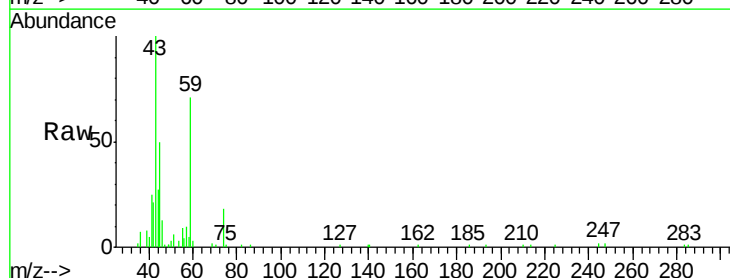
Instrument :
 MSVOA_L
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 C0P46

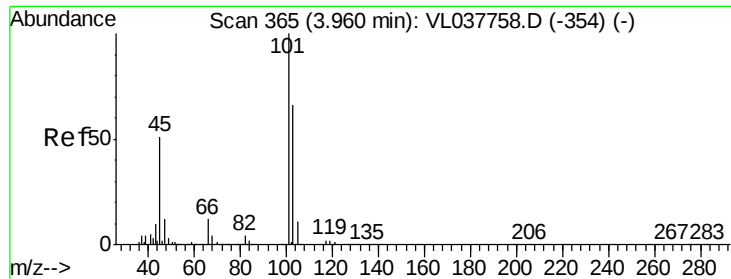
Tgt Ion: 39 Resp: 573276
 Ion Ratio Lower Upper
 39 100
 54 2.2 61.7 92.5#



#17
 tert-Butyl alcohol
 Concen: 0.208 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.01 min
 Lab File: VL037812.D
 Acq: 8 Oct 2021 1:39

Tgt Ion: 59 Resp: 25541
 Ion Ratio Lower Upper
 59 100
 57 10.0 8.6 13.0





#19

Isopropyl Alcohol

Concen: 18.361 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL037812.D

Acq: 8 Oct 2021 1:39

Instrument :

MSVOA_L

ClientSampleId :

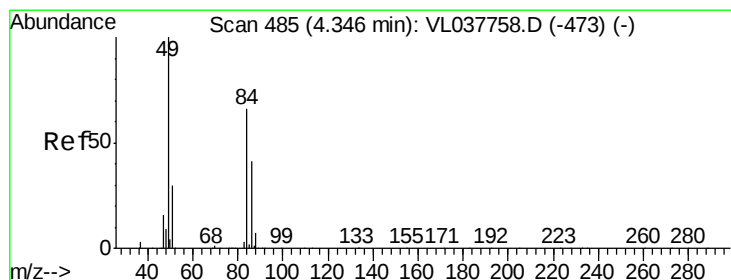
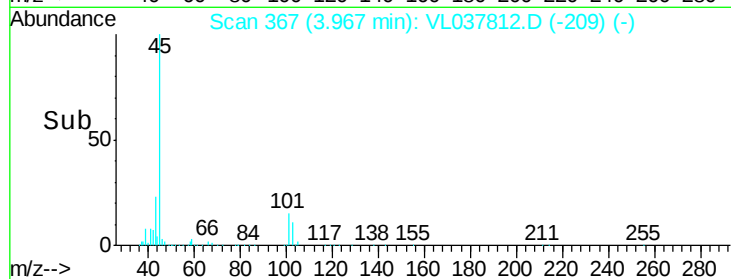
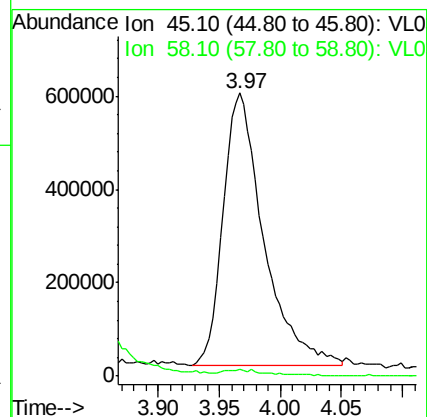
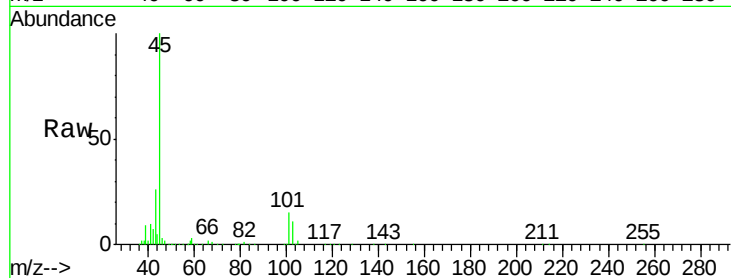
C0P46

Tgt Ion: 45 Resp: 1360459

Ion Ratio Lower Upper

45 100

58 2.7 1.1 1.7#



#20

Methylene Chloride

Concen: 4.719 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL037812.D

Acq: 8 Oct 2021 1:39

Tgt Ion: 84 Resp: 283959

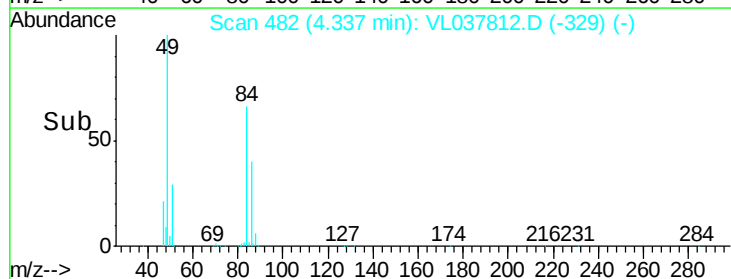
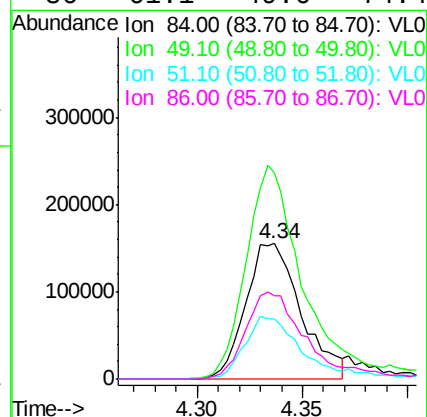
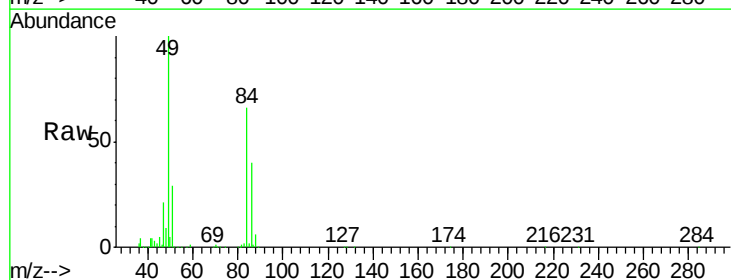
Ion Ratio Lower Upper

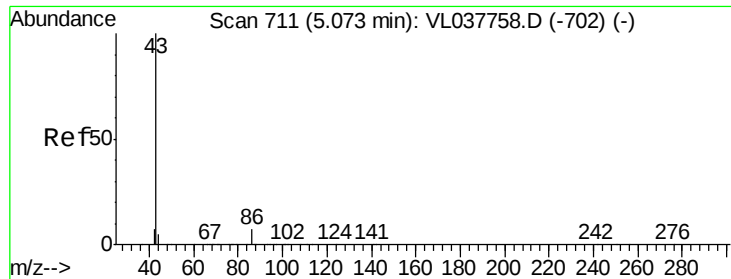
84 100

49 151.9 120.7 181.1

51 44.3 36.2 54.4

86 61.1 49.6 74.4





#23

Vinyl Acetate

Concen: 0.282 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.02 min

Lab File: VL037812.D

Acq: 8 Oct 2021 1:39

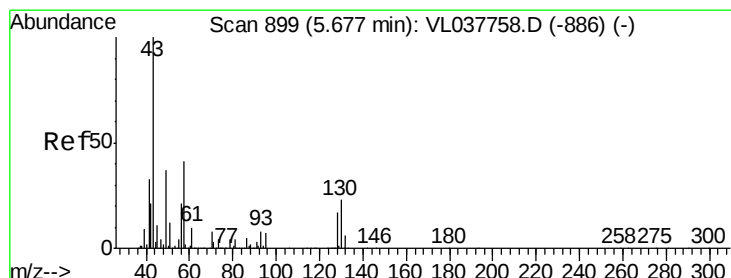
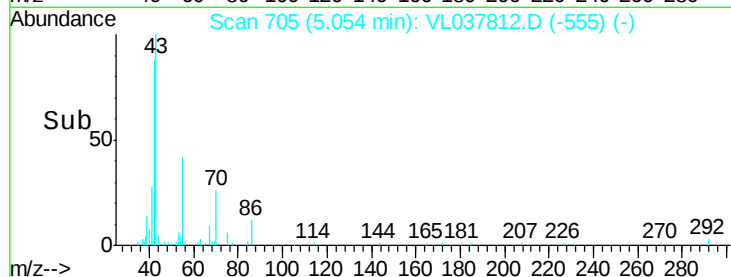
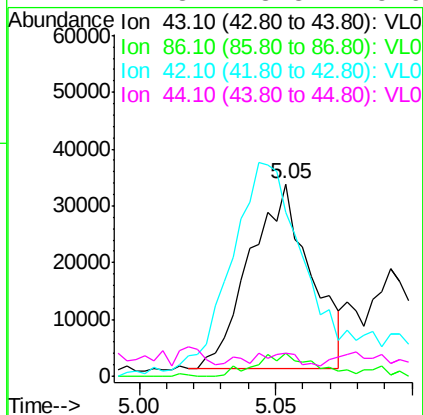
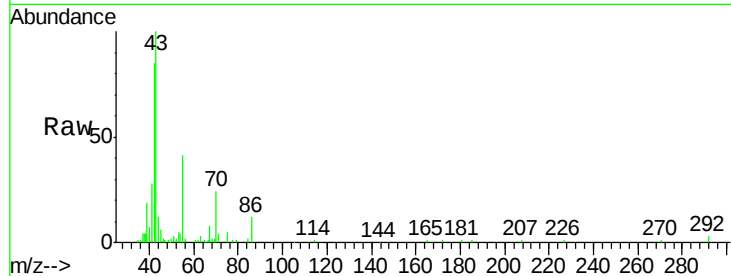
Instrument :

MSVOA_L

ClientSampleId :

C0P46

Tgt Ion:	43	Resp:	50407
Ion	Ratio	Lower	Upper
43	100		
86	11.1	5.0	7.4#
42	77.3	7.4	11.0#
44	2.3	3.8	5.6#



#25

Ethyl Acetate

Concen: 0.662 ppbv

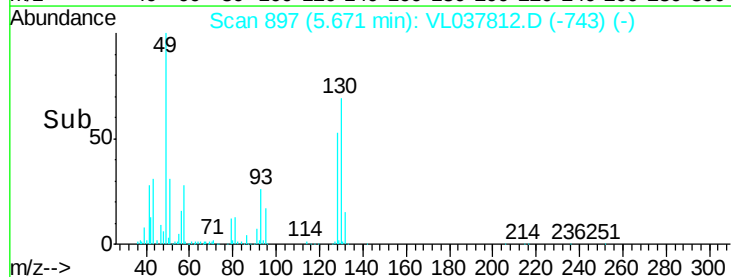
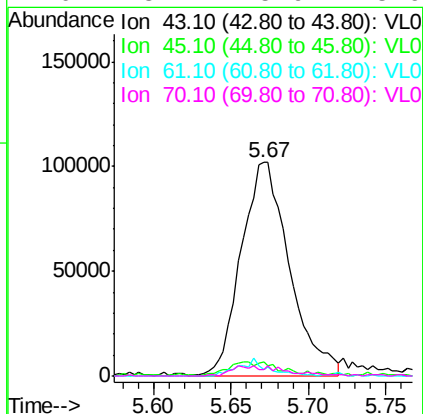
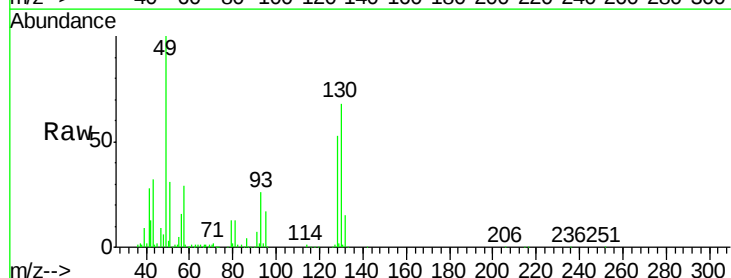
RT: 5.67 min Scan# 897

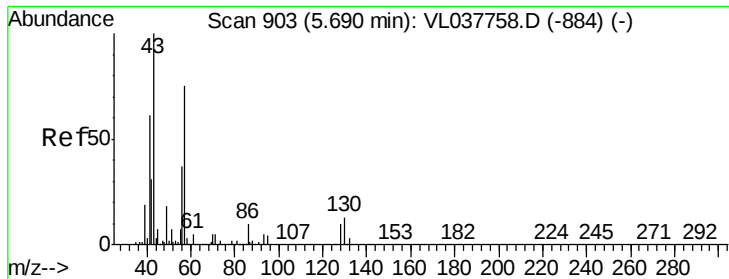
Delta R.T. -0.01 min

Lab File: VL037812.D

Acq: 8 Oct 2021 1:39

Tgt Ion:	43	Resp:	221335
Ion	Ratio	Lower	Upper
43	100		
45	6.8	8.1	12.1#
61	5.3	7.5	11.3#
70	5.2	5.9	8.9#

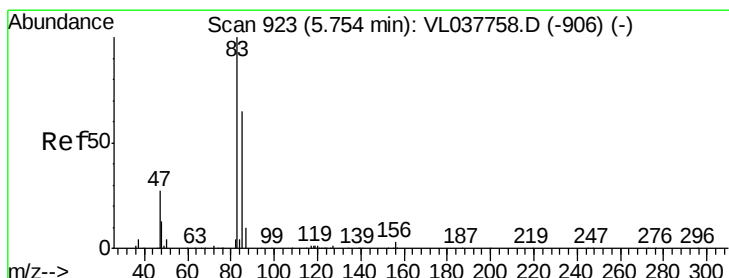
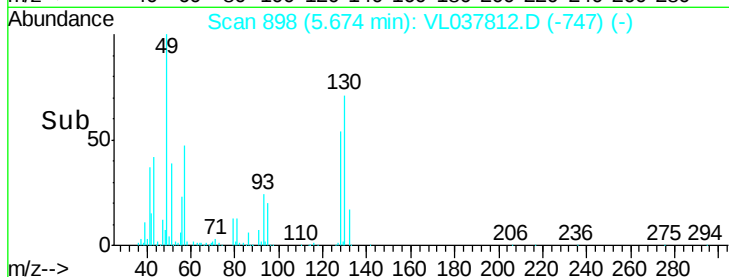
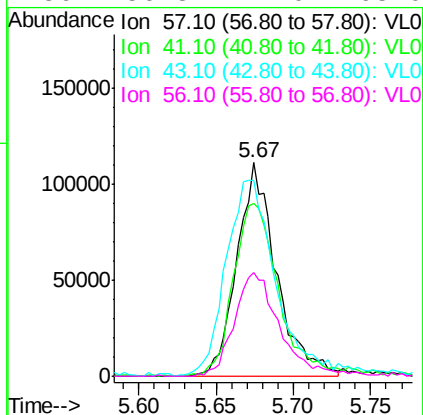
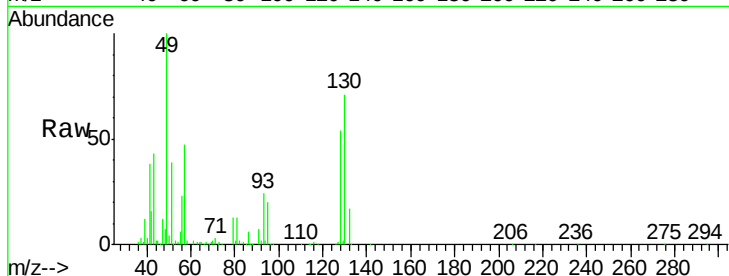




#26
Hexane
Concen: 1.195 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.02 min
Lab File: VL037812.D
Acq: 8 Oct 2021 1:39

Instrument :
MSVOA_L
ClientSampleId :
C0P46

Tgt Ion: 57 Resp: 196652
Ion Ratio Lower Upper
57 100
41 95.1 69.6 104.4
43 119.1 171.4 257.0#
56 56.8 42.0 63.0



#29
Chloroform
Concen: 0.268 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.02 min
Lab File: VL037812.D
Acq: 8 Oct 2021 1:39

Tgt Ion: 83 Resp: 63013
Ion Ratio Lower Upper
83 100
85 59.2 51.8 77.8

