

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032422\
 Data File : VL038757.D
 Acq On : 24 Mar 2022 20:58
 Operator : SY/AP
 Sample : N2078-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 V-10

Quant Time: Mar 25 02:10:43 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	703421	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	1902224	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	1551426	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	1164294	9.79	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

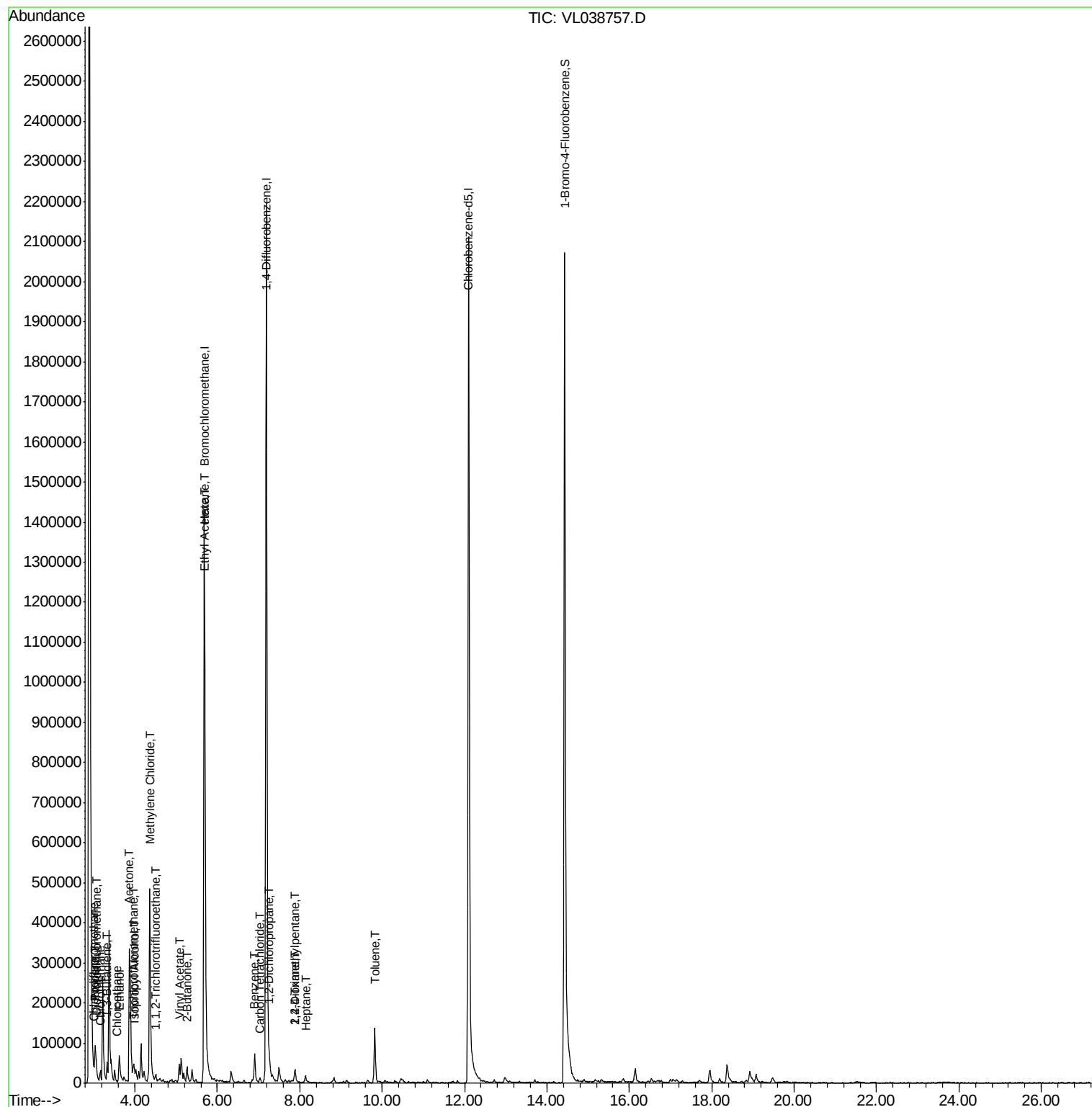
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	33304	0.35	ppbv	96
3) Chlorodifluoromethane	3.01	51	27078	0.36	ppbv	96
4) Chloromethane	3.15	50	27530	0.67	ppbv	94
7) Chloroethane	3.57	64	436	0.03	ppbv #	43
9) Propene	3.03	41	27902	0.78	ppbv	95
10) Heptane	8.14	43	2578	0.03	ppbv #	26
11) Trichlorofluoromethane	3.96	101	25392	0.30	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.50	101	5806	0.09	ppbv	94
13) Ethanol	3.62	45	86257	21.80	ppbv	89
15) Acetone	3.86	43	476135	7.84	ppbv	100
16) 1,3-Butadiene	3.32	39	14494	0.42	ppbv #	44
19) Isopropyl Alcohol	3.99	45	9464	0.28	ppbv #	91
20) Methylene Chloride	4.36	84	214373	8.39	ppbv	96
23) Vinyl Acetate	5.08	43	9383	0.16	ppbv #	65
25) Ethyl Acetate	5.70	43	99334	0.65	ppbv #	85
26) Hexane	5.70	57	132919	1.94	ppbv #	40
34) 2-Butanone	5.26	43	25821	0.34	ppbv #	42
35) Carbon Tetrachloride	7.03	117	3403	0.03	ppbv #	68
36) Benzene	6.91	78	66479	0.45	ppbv	96
39) 1,2-Dichloropropane	7.26	63	4645	0.08	ppbv #	58
40) 1,4-Dioxane	7.89	88	777	0.04	ppbv #	1
44) 2,2,4-Trimethylpentane	7.89	57	23259	0.09	ppbv #	72
53) Toluene	9.82	91	110085	0.70	ppbv	99

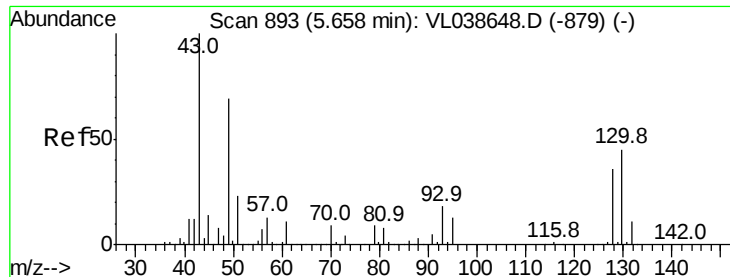
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 20:58

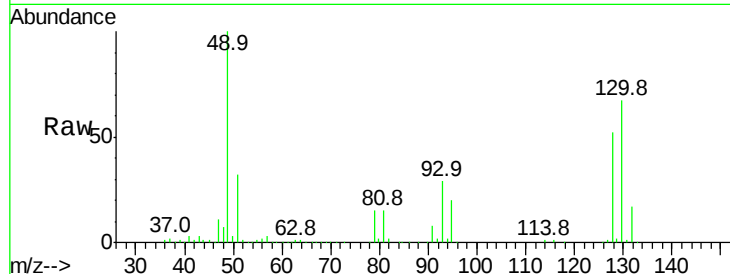
Tgt Ion: 49 Resp: 703421

Ion Ratio Lower Upper

49 100

128 57.2 26.2 78.6

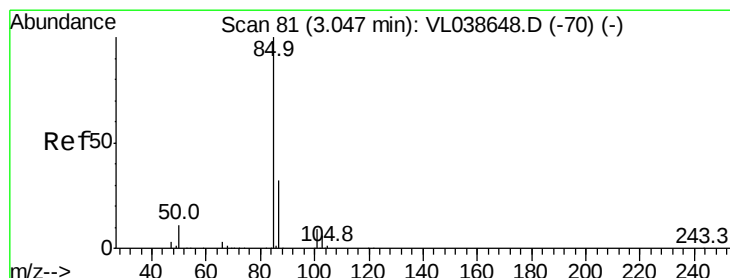
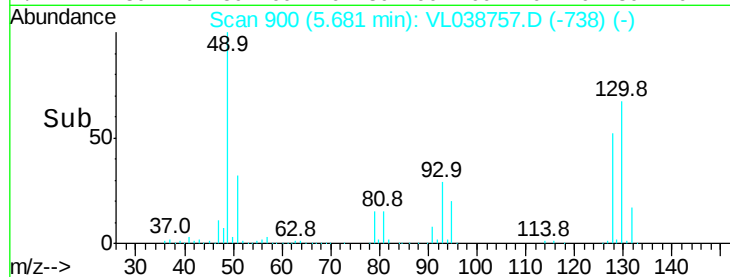
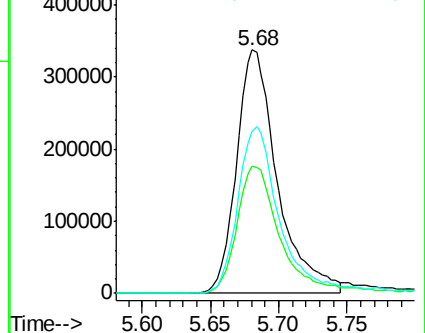
130 71.8 33.7 101.1



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: 0.35 ppbv

RT: 3.07 min Scan# 87

Delta R.T. 0.02 min

Lab File: VL038757.D

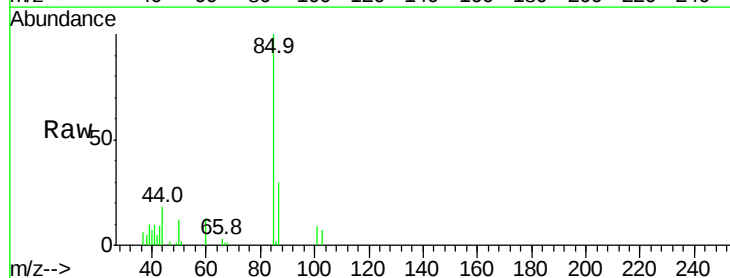
Acq: 24 Mar 2022 20:58

Tgt Ion: 85 Resp: 33304

Ion Ratio Lower Upper

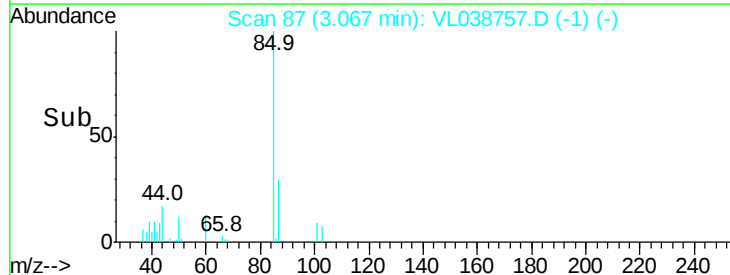
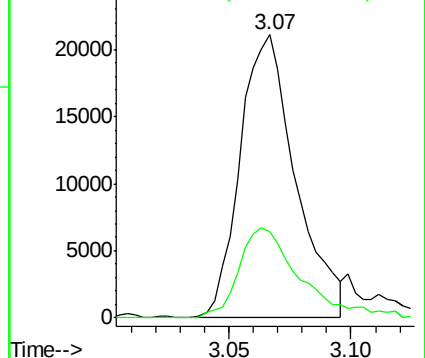
85 100

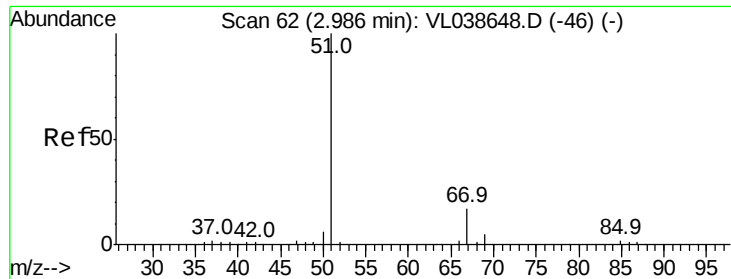
87 30.4 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.36 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

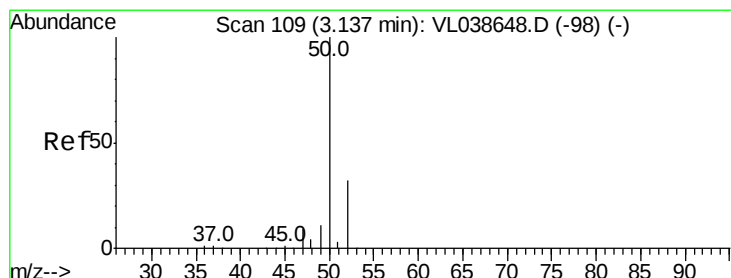
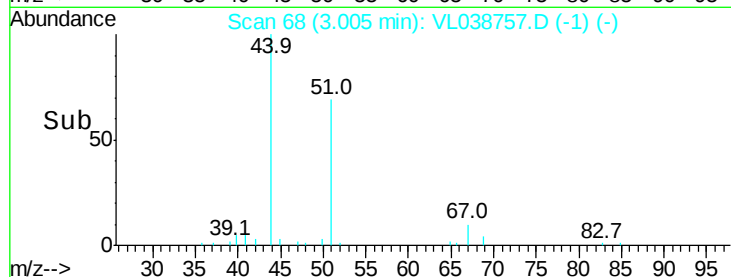
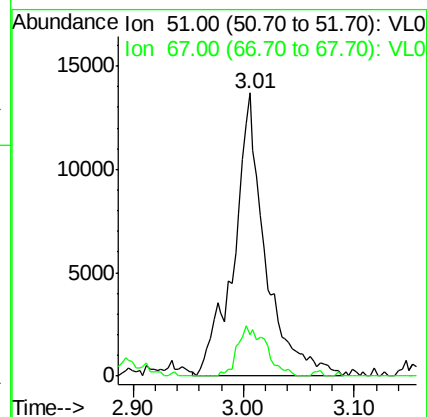
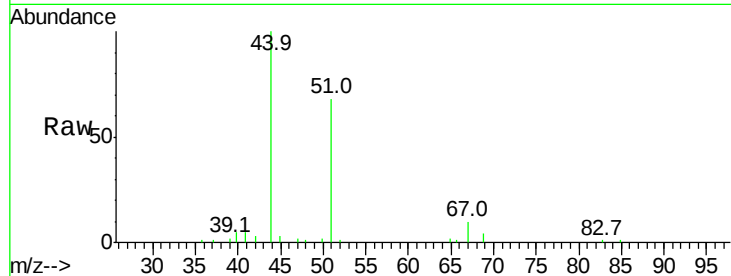
Acq: 24 Mar 2022 20:58

Tgt Ion: 51 Resp: 27078

Ion Ratio Lower Upper

51 100

67 16.0 14.1 21.1



#4

Chloromethane

Concen: 0.67 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.02 min

Lab File: VL038757.D

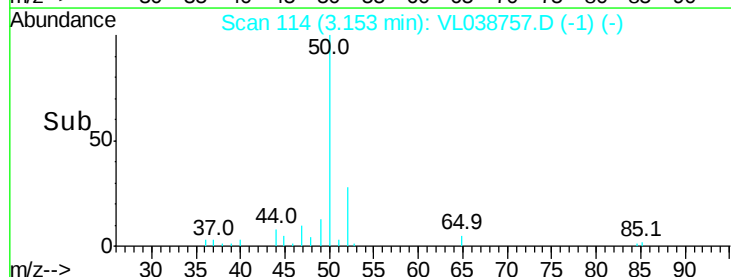
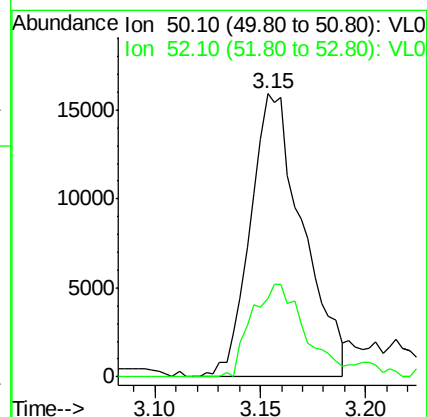
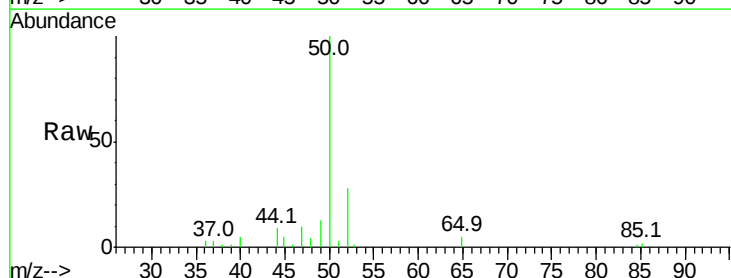
Acq: 24 Mar 2022 20:58

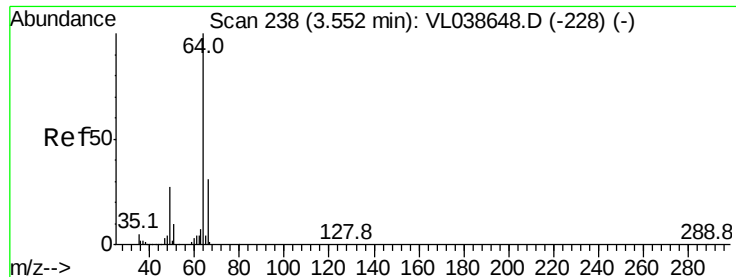
Tgt Ion: 50 Resp: 27530

Ion Ratio Lower Upper

50 100

52 28.7 25.5 38.3





#7

Chloroethane

Concen: 0.03 ppbv

RT: 3.57 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

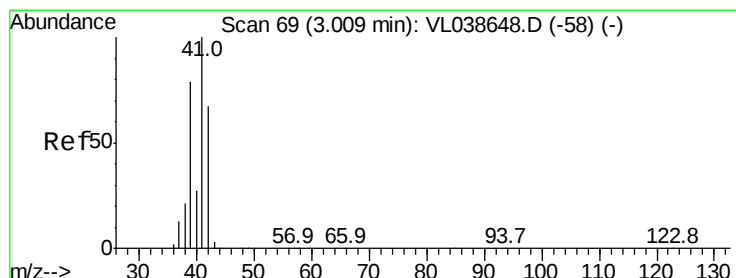
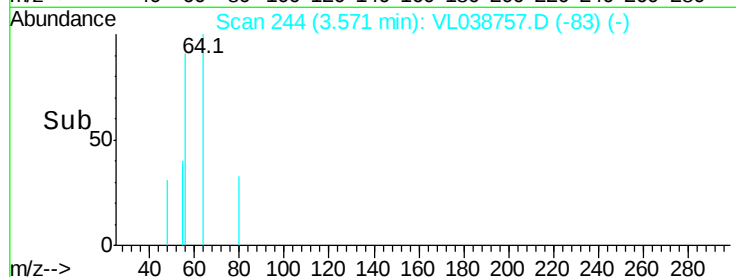
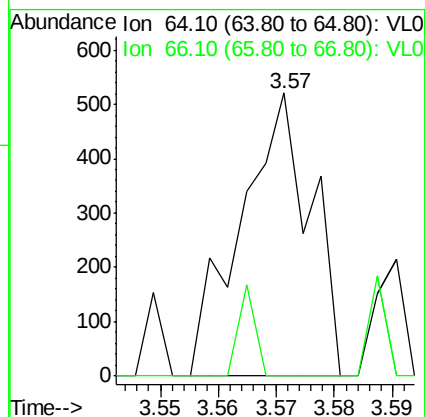
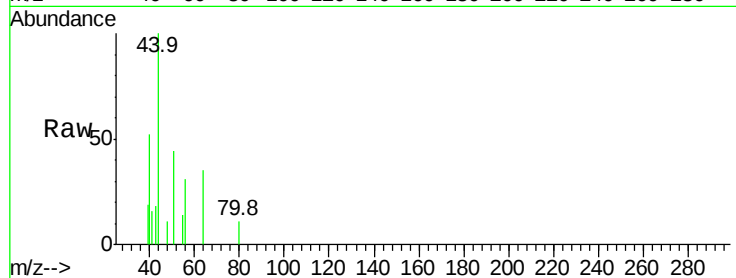
Acq: 24 Mar 2022 20:58

Tgt Ion: 64 Resp: 436

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#9

Propene

Concen: 0.78 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL038757.D

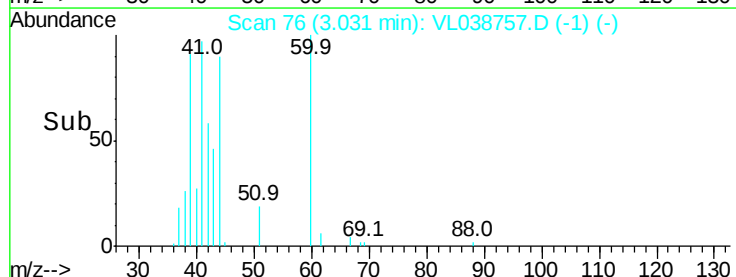
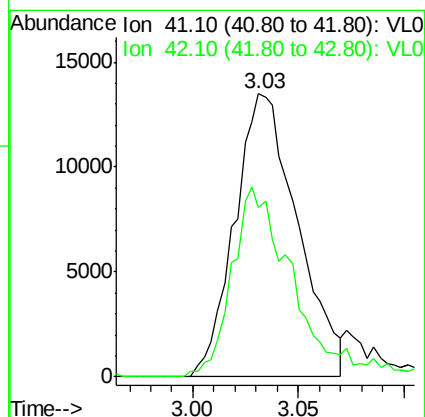
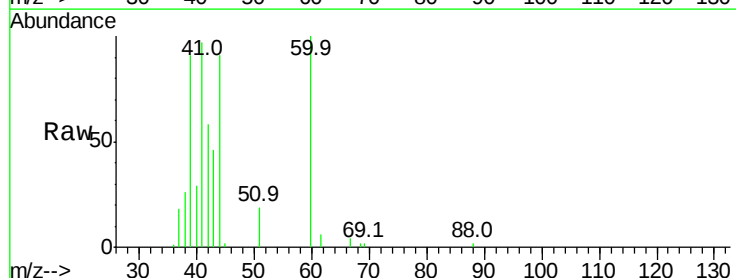
Acq: 24 Mar 2022 20:58

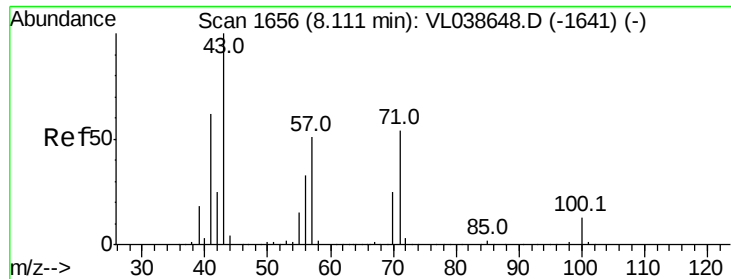
Tgt Ion: 41 Resp: 27902

Ion Ratio Lower Upper

41 100

42 66.5 56.2 84.4





#10

Heptane

Concen: 0.03 ppbv

RT: 8.14 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

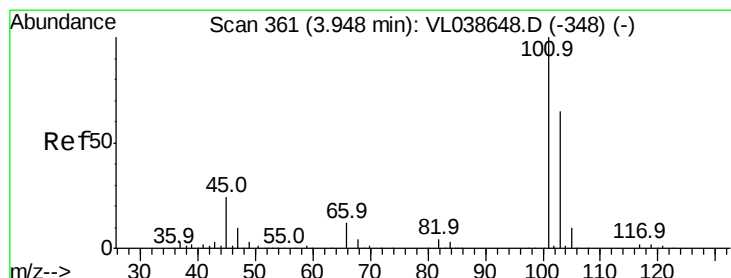
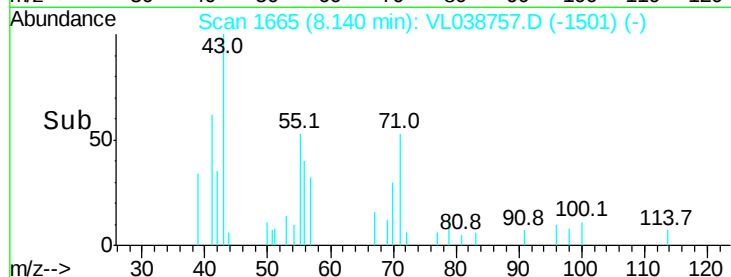
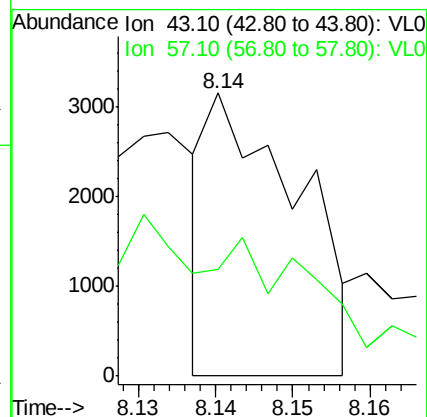
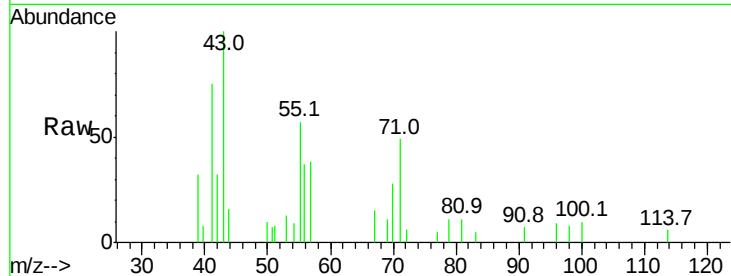
Acq: 24 Mar 2022 20:58

Tgt Ion: 43 Resp: 2578

Ion Ratio Lower Upper

43 100

57 0.0 41.4 62.2#



#11

Trichlorofluoromethane

Concen: 0.30 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.02 min

Lab File: VL038757.D

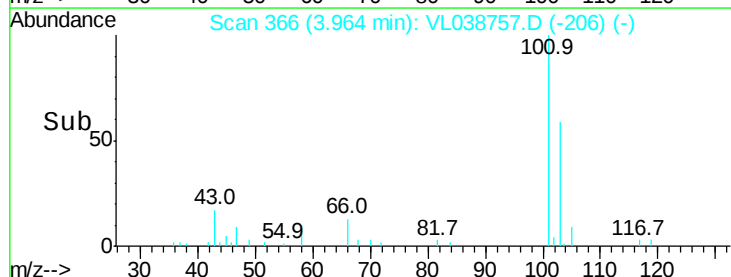
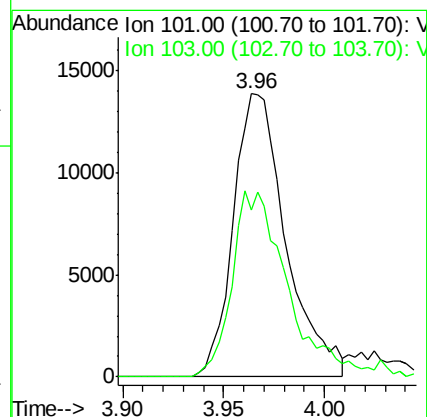
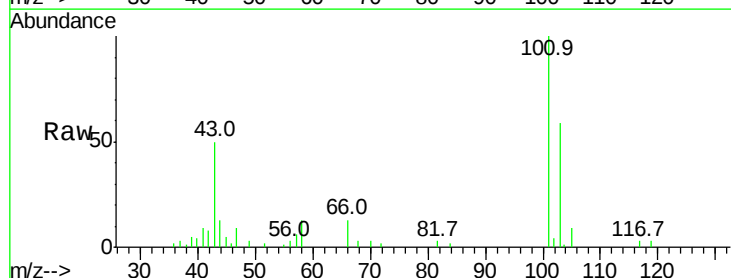
Acq: 24 Mar 2022 20:58

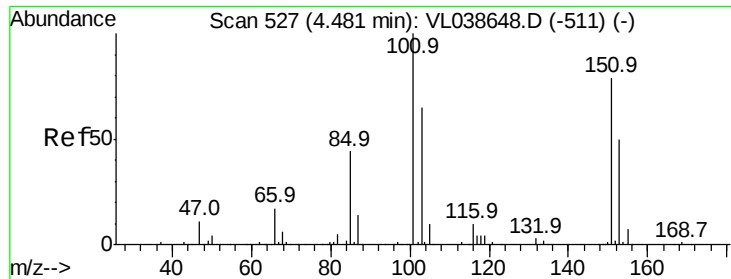
Tgt Ion: 101 Resp: 25392

Ion Ratio Lower Upper

101 100

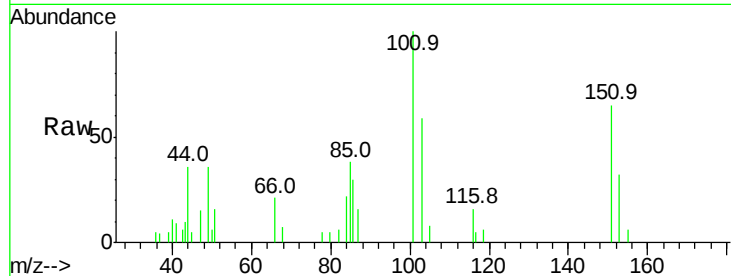
103 59.9 51.9 77.9



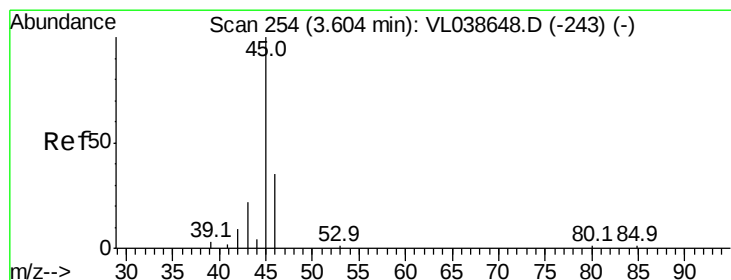
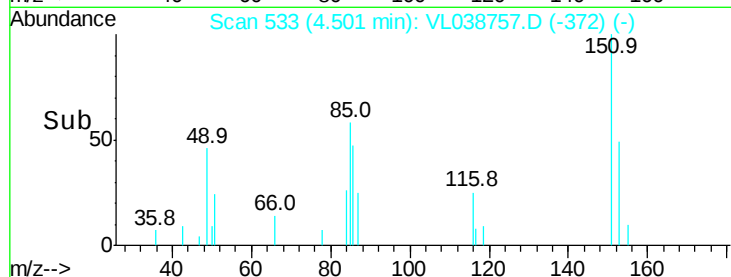
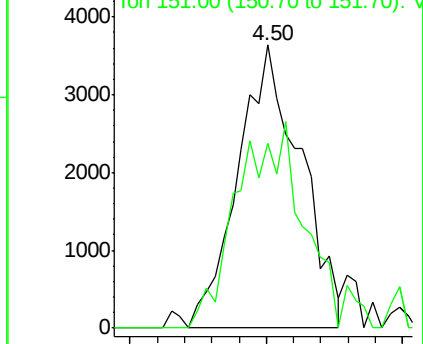


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.09 ppbv
 RT: 4.50
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 V-10
 Acq: 24 Mar 2022 20:58

Tgt Ion: 101 Resp: 5806
 Ion Ratio Lower Upper
 101 100
 151 84.1 62.9 94.3

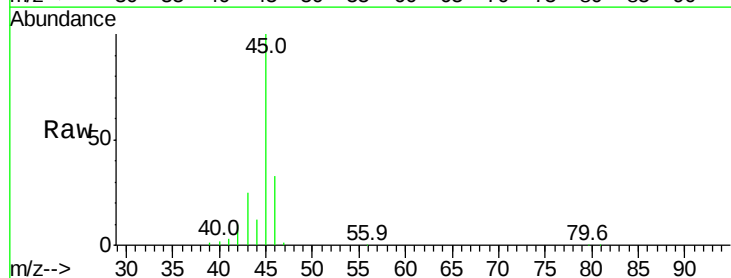


Abundance Ion 101.00 (100.70 to 101.70): V
 Ion 151.00 (150.70 to 151.70): V

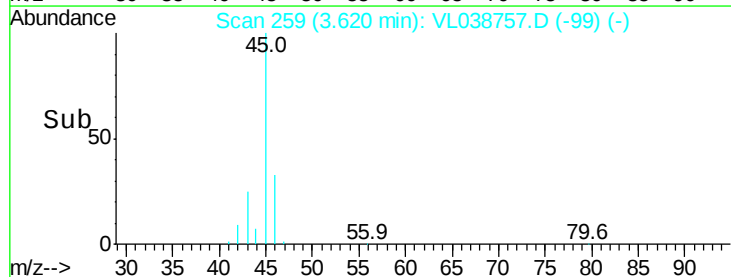
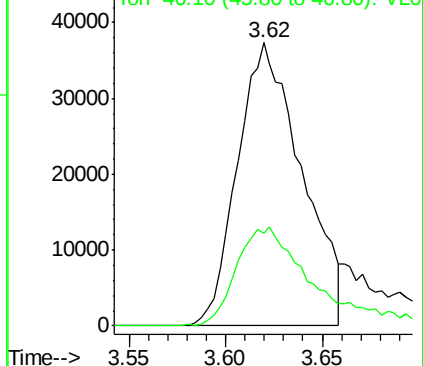


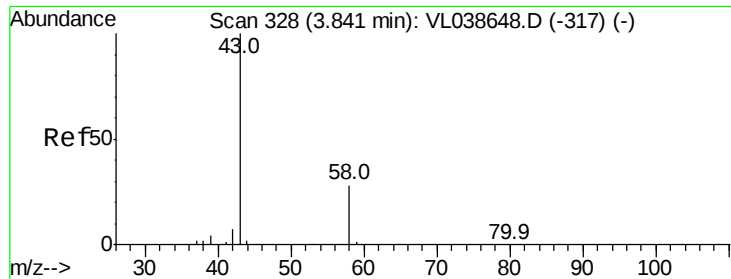
#13
 Ethanol
 Concen: 21.80 ppbv
 RT: 3.62 min Scan# 259
 Delta R.T. 0.02 min
 Lab File: VL038757.D
 Acq: 24 Mar 2022 20:58

Tgt Ion: 45 Resp: 86257
 Ion Ratio Lower Upper
 45 100
 46 44.7 15.1 60.5



Abundance Ion 45.10 (44.80 to 45.80): VL0
 Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 7.84 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

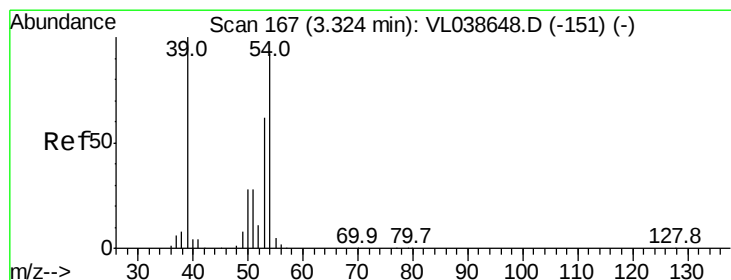
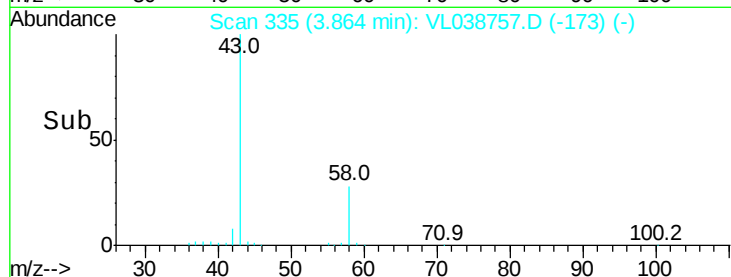
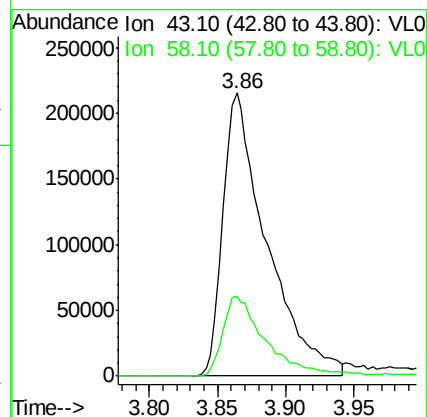
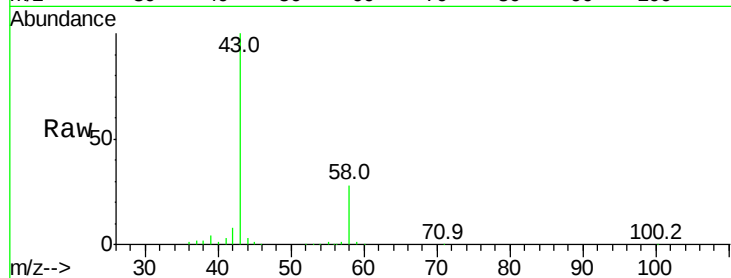
Acq: 24 Mar 2022 20:58

Tgt Ion: 43 Resp: 476135

Ion Ratio Lower Upper

43 100

58 29.3 23.3 34.9



#16

1,3-Butadiene

Concen: 0.42 ppbv

RT: 3.32 min Scan# 167

Delta R.T. -0.00 min

Lab File: VL038757.D

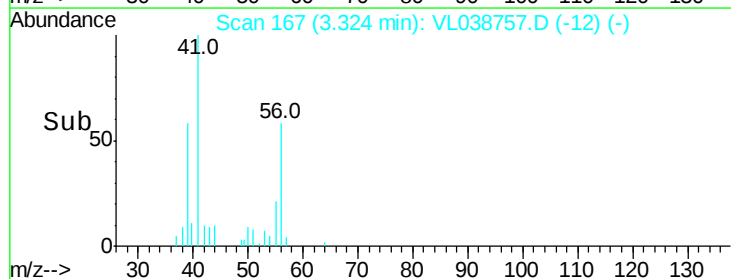
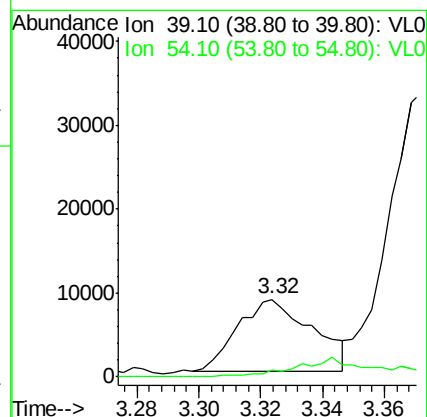
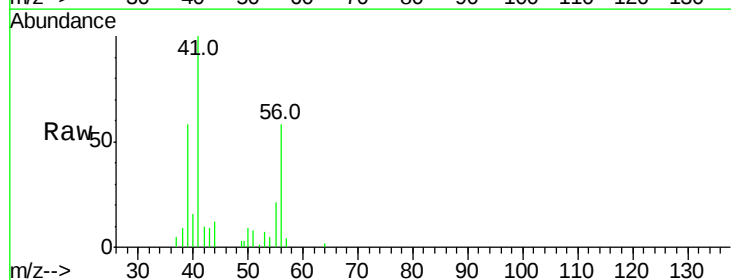
Acq: 24 Mar 2022 20:58

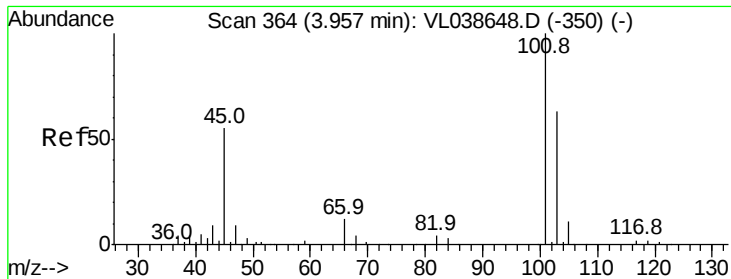
Tgt Ion: 39 Resp: 14494

Ion Ratio Lower Upper

39 100

54 34.7 69.1 103.7#





#19

Isopropyl Alcohol

Concen: 0.28 ppbv

RT: 3.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

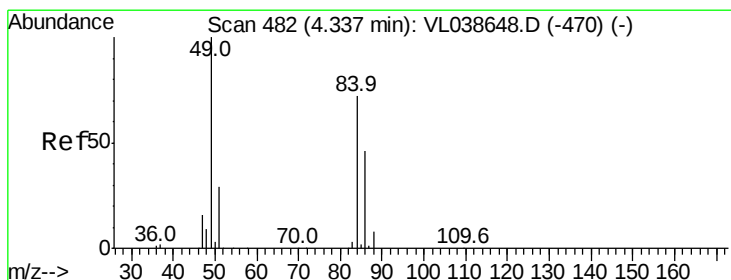
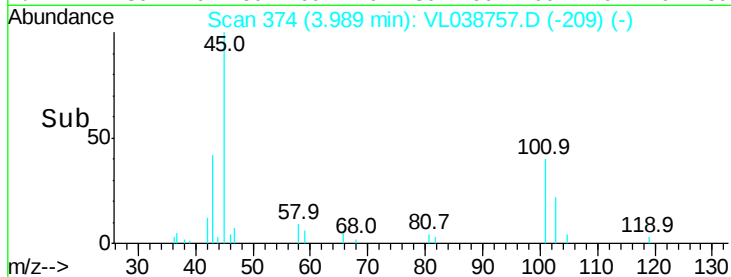
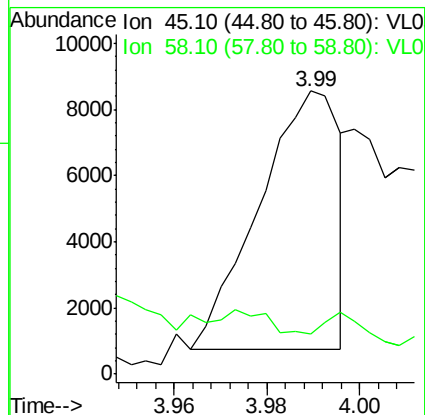
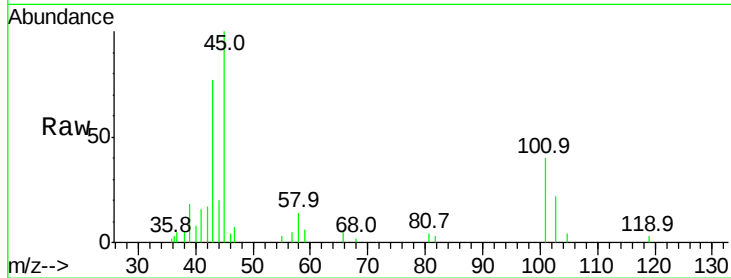
Acq: 24 Mar 2022 20:58

Tgt Ion: 45 Resp: 9464

Ion Ratio Lower Upper

45 100

58 0.0 2.3 3.5#



#20

Methylene Chloride

Concen: 8.39 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.02 min

Lab File: VL038757.D

Acq: 24 Mar 2022 20:58

Tgt Ion: 84 Resp: 214373

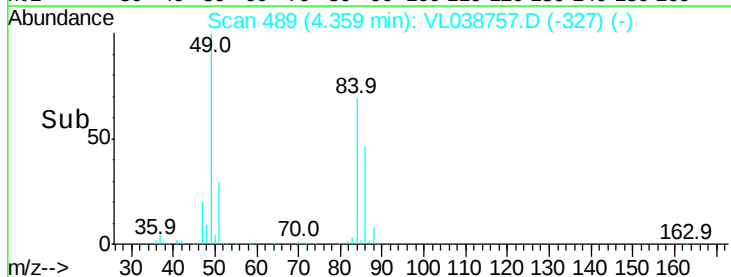
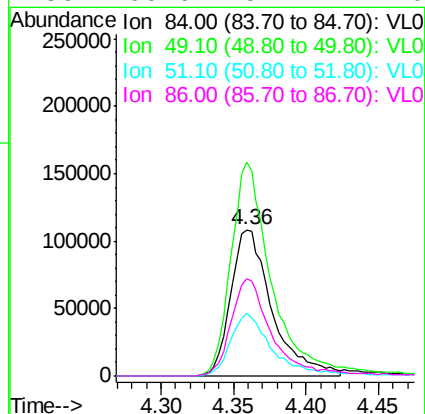
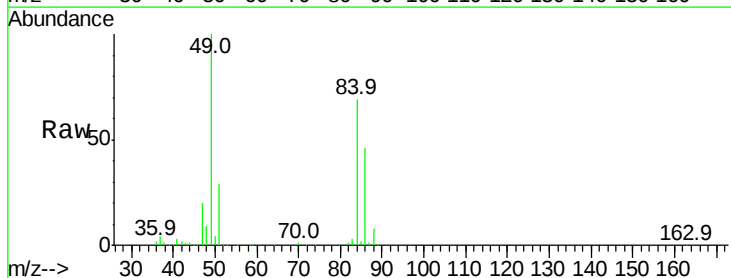
Ion Ratio Lower Upper

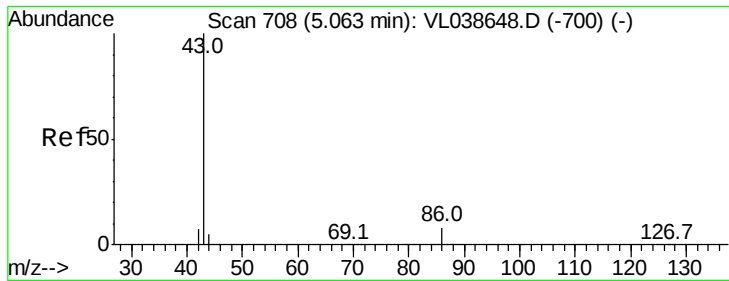
84 100

49 145.7 111.2 166.8

51 42.6 32.8 49.2

86 66.6 51.4 77.0





#23

Vinyl Acetate

Concen: 0.16 ppbv

RT: 5.08 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

V-10

Acq: 24 Mar 2022 20:58

Tgt Ion: 43 Resp: 9383

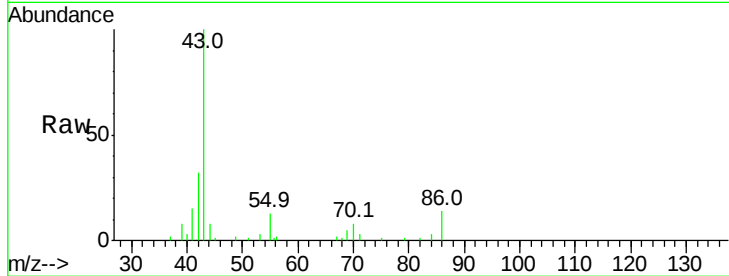
Ion Ratio Lower Upper

43 100

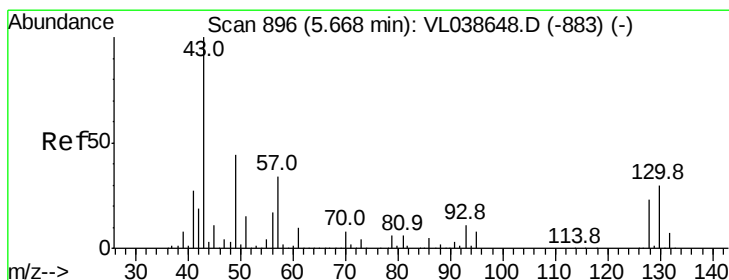
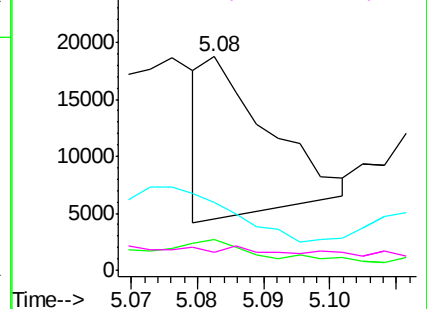
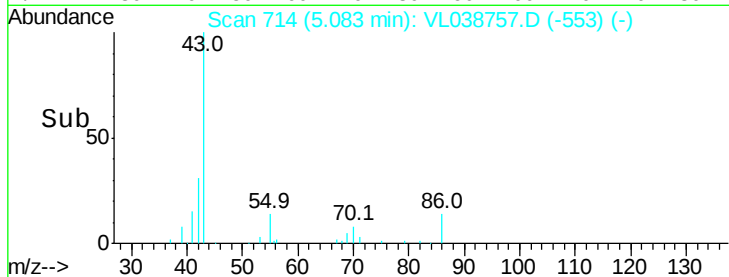
86 14.0 5.6 8.4#

42 29.6 6.8 10.2#

44 0.0 4.2 6.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.65 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.04 min

Lab File: VL038757.D

Acq: 24 Mar 2022 20:58

Tgt Ion: 43 Resp: 99334

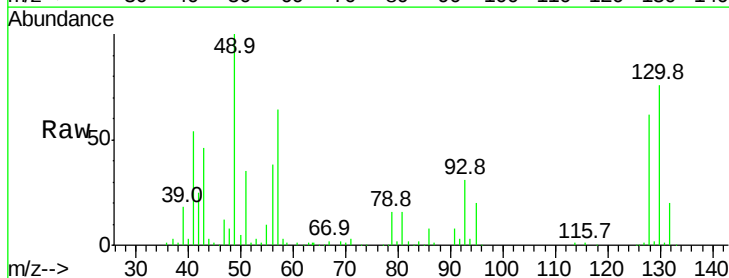
Ion Ratio Lower Upper

43 100

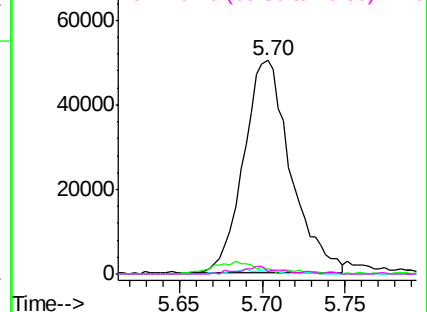
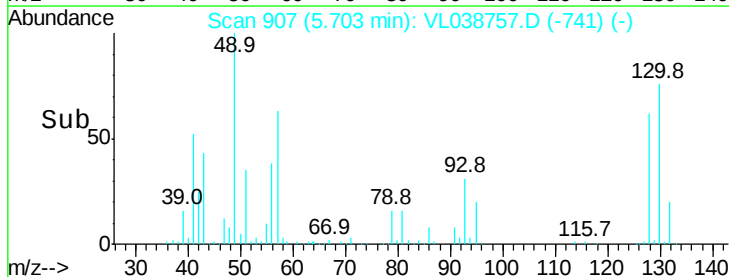
45 6.5 8.2 12.4#

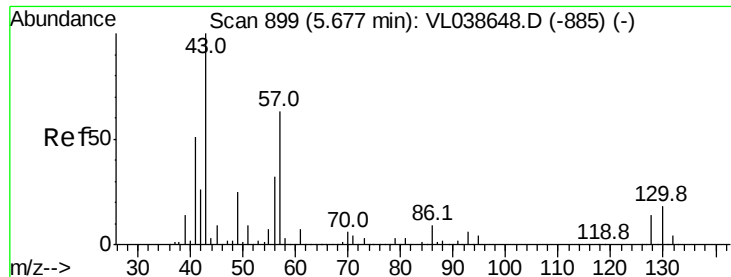
61 1.8 8.3 12.5#

70 3.0 5.6 8.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 1.94 ppbv

RT: 5.70 Instrument:

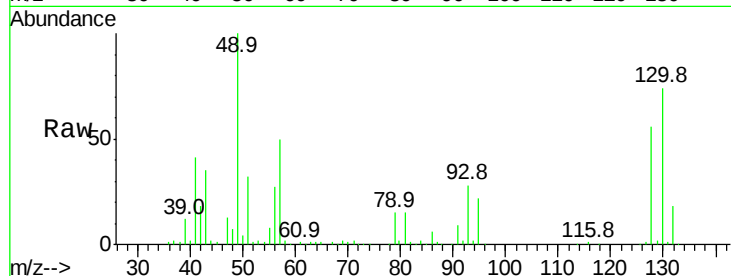
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 24 Mar 2022 20:58

Tgt Ion: 57 Resp: 132919

Ion	Ratio	Lower	Upper
57	100		
41	93.0	67.0	100.4
43	80.8	184.2	276.2#
56	60.5	42.6	64.0

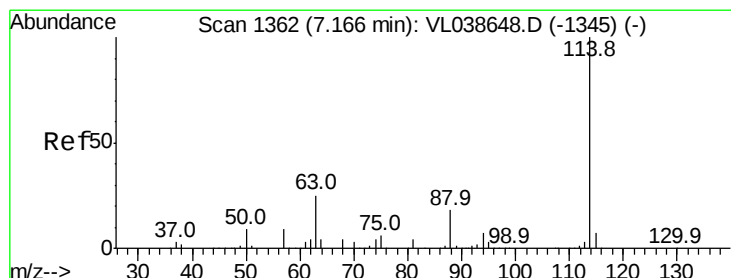
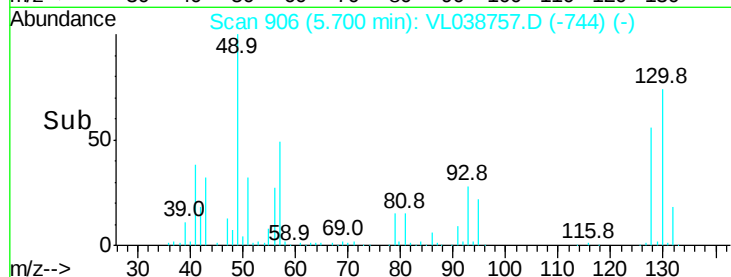
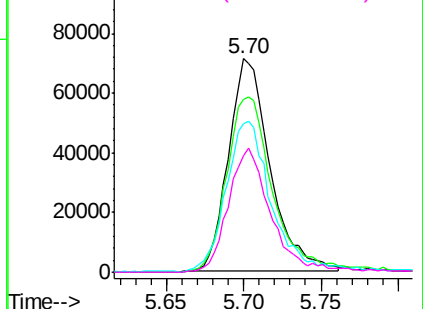


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.19 min Scan# 1369

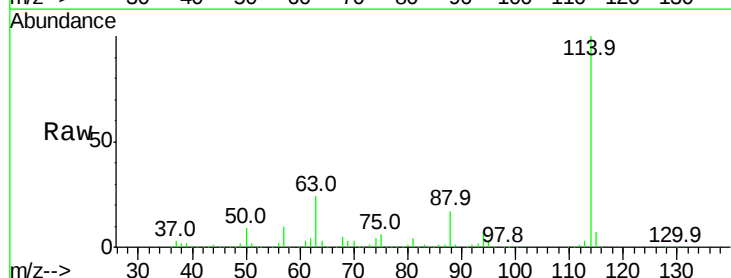
Delta R.T. 0.02 min

Lab File: VL038757.D

Acq: 24 Mar 2022 20:58

Tgt Ion: 114 Resp: 1902224

Ion	Ratio	Lower	Upper
114	100		
63	23.4	19.4	29.0
88	17.1	13.9	20.9



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

