

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022222\
 Data File : VL038386.D
 Acq On : 22 Feb 2022 13:01
 Operator : SY/AP
 Sample : N1585-01 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-FAM4GL-3DL

Quant Time: Feb 23 07:02:05 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022

QLast Update : Tue Feb 22 19:45:51 2022

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	961245	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2350357	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2139008	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1749938	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	48925	0.32	ppbv #	83
3) Chlorodifluoromethane	2.96	51	23391	0.14	ppbv #	67
4) Chloromethane	3.14	50	8280	0.14	ppbv #	82
5) Vinyl Chloride	3.26	62	75172	1.22	ppbv #	85
7) Chloroethane	3.55	64	13587	0.69	ppbv #	86
9) Propene	3.01	41	840404	15.00	ppbv	86
10) Heptane	8.11	43	115856	0.85	ppbv	97
11) Trichlorofluoromethane	3.94	101	5814899	39.89	ppbv	100
13) Ethanol	3.61	45	2466	0.44	ppbv #	31
15) Acetone	3.87	43	1586770	19.41	ppbv #	72
16) 1,3-Butadiene	3.30	39	199103	3.65	ppbv #	26
20) Methylene Chloride	4.34	84	33705	0.83	ppbv	87
21) Allyl Chloride	4.36	41	8848	0.13	ppbv #	1
22) trans-1,2-Dichloroethene	4.87	96	1664	0.04	ppbv #	70
23) Vinyl Acetate	5.04	43	119220	1.10	ppbv #	1
24) 1,1-Dichloroethane	5.00	63	20833	0.21	ppbv	99
25) Ethyl Acetate	5.68	43	129880	0.59	ppbv #	78
26) Hexane	5.67	57	191628	1.93	ppbv #	42
27) Carbon Disulfide	4.54	76	279516	2.53	ppbv	97
28) Methyl tert-Butyl Ether	5.03	73	6809	0.07	ppbv #	53
29) Chloroform	5.74	83	8588	0.05	ppbv	92
30) Cyclohexane	7.11	84	110893	1.36	ppbv #	75
31) cis-1,2-Dichloroethene	5.54	61	200090	2.08	ppbv	96
32) 1,1,1-Trichloroethane	6.50	97	80817	0.50	ppbv	98
34) 2-Butanone	5.25	43	48480	0.66	ppbv #	77
36) Benzene	6.88	78	497185	2.40	ppbv	98
38) Trichloroethene	7.82	130	54836	0.73	ppbv	95
39) 1,2-Dichloropropane	7.16	63	609656	7.40	ppbv #	25
43) Methyl Methacrylate	8.00	69	3150	0.04	ppbv #	1
44) 2,2,4-Trimethylpentane	7.85	57	32832	0.09	ppbv #	1
50) 4-Methyl-2-Pentanone	8.75	43	9248	0.07	ppbv #	40
51) 2-Hexanone	10.09	43	17982	0.31	ppbv #	32
52) Tetrachloroethene	11.20	164	102845	1.50	ppbv	93
53) Toluene	9.79	91	246894	1.10	ppbv	99
57) Chlorobenzene	12.13	112	131451	0.80	ppbv	97
58) Ethyl Benzene	12.69	91	33889	0.12	ppbv	95
59) m/p-Xylene	12.98	91	15573	0.06	ppbv #	33
60) o-Xylene	13.67	91	65714	0.28	ppbv	99
62) Isopropylbenzene	14.65	105	19215	0.06	ppbv	94
74) 1,2,4-Trimethylbenzene	16.74	105	23990	0.10	ppbv #	66

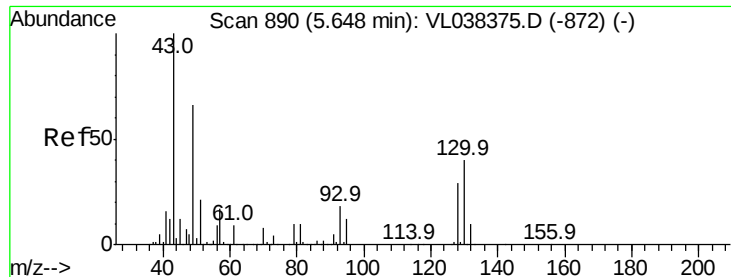
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022222\
Data File : VL038386.D
Acq On : 22 Feb 2022 13:01
Operator : SY/AP
Sample : N1585-01 10X
Misc : 400mL/MSVOA_L
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Instrument :
MSVOA_L
ClientSampleId :
SG-FAM4GL-3DL

Quant Time: Feb 23 07:02:05 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022
QLast Update : Tue Feb 22 19:45:51 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Feb 2022 13:01 SG-FAM4GL-3DL

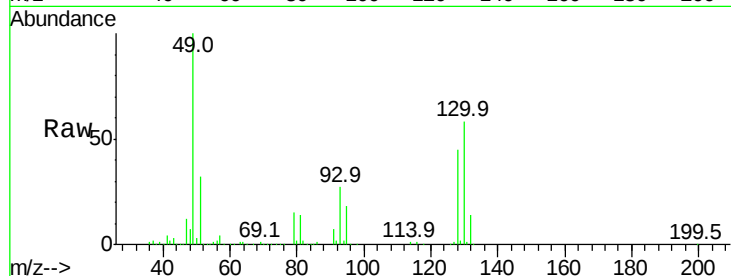
Tgt Ion: 49 Resp: 961245

Ion Ratio Lower Upper

49 100

128 46.6 24.3 72.9

130 60.4 30.1 90.5



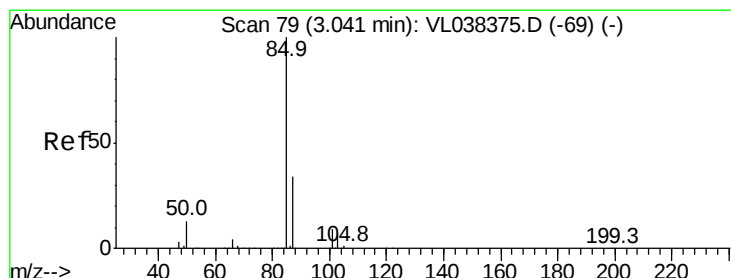
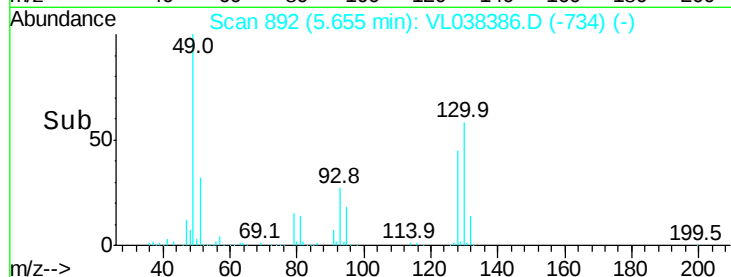
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.65

Time-->



#2

Dichlorodifluoromethane

Concen: 0.32 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL038386.D

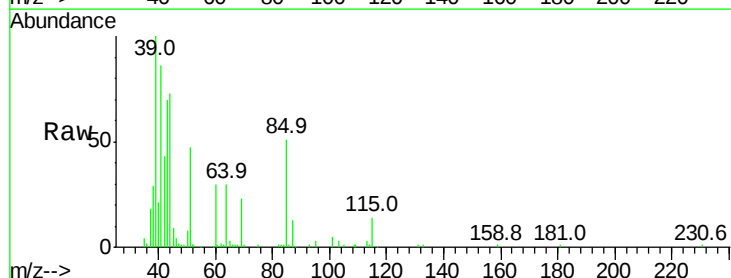
Acq: 22 Feb 2022 13:01

Tgt Ion: 85 Resp: 48925

Ion Ratio Lower Upper

85 100

87 24.7 27.4 41.0#

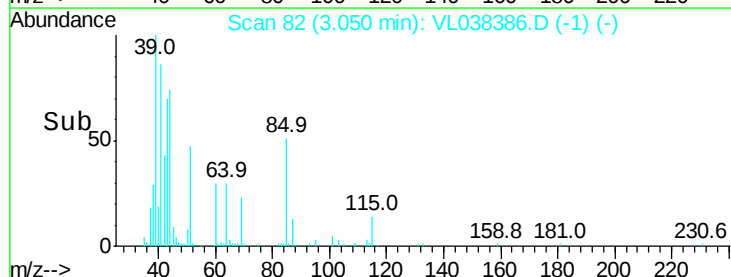


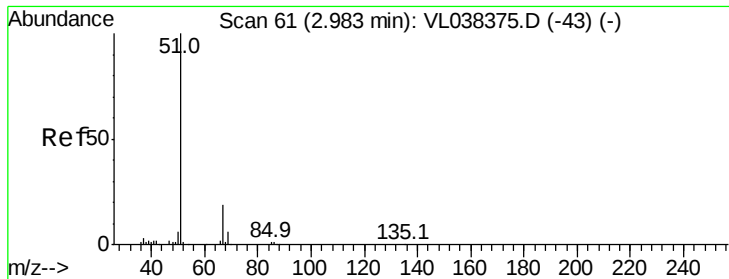
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.14 ppbv

RT: 2.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

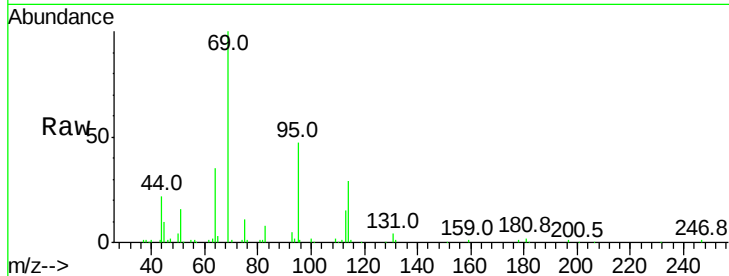
Acq: 22 Feb 2022 13:01 SG-FAM4GL-3DL

Tgt Ion: 51 Resp: 23391

Ion Ratio Lower Upper

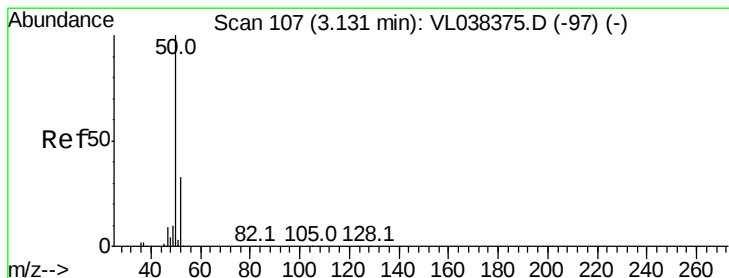
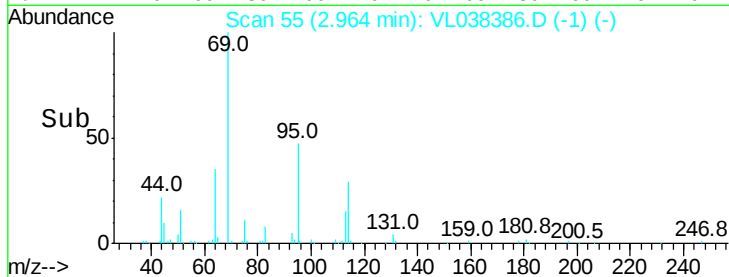
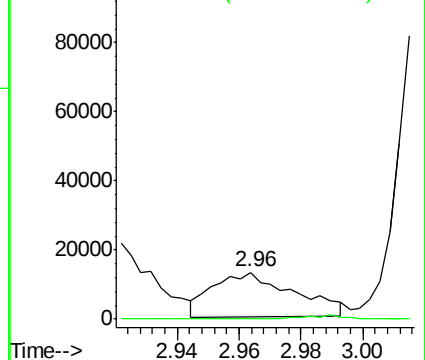
51 100

67 3.8 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.14 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL038386.D

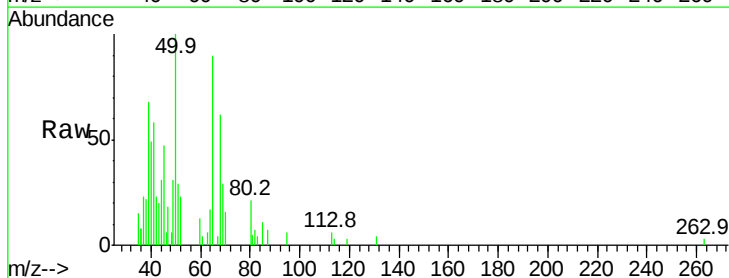
Acq: 22 Feb 2022 13:01

Tgt Ion: 50 Resp: 8280

Ion Ratio Lower Upper

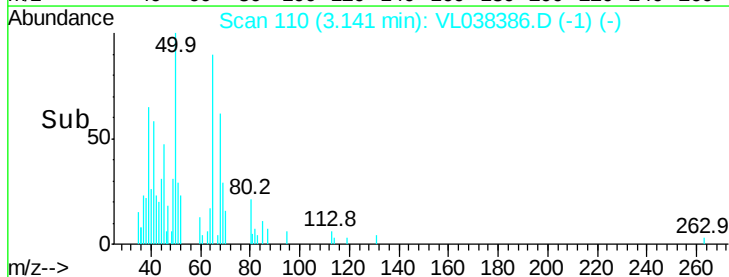
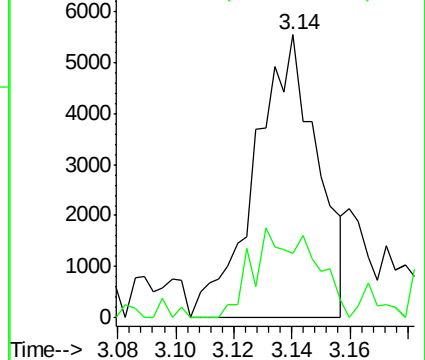
50 100

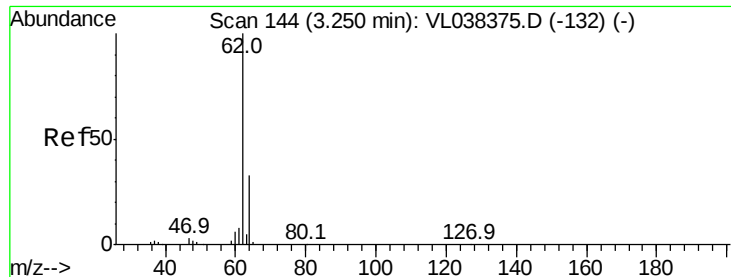
52 23.0 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.22 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

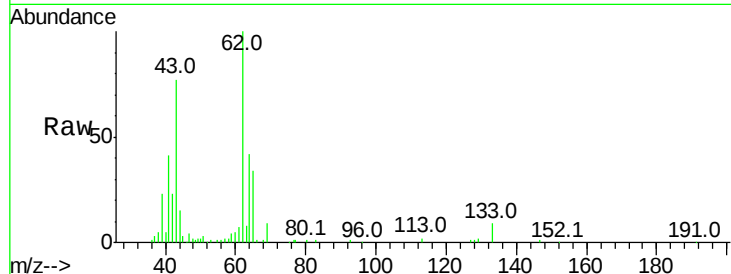
Acq: 22 Feb 2022 13:01 SG-FAM4GL-3DL

Tgt Ion: 62 Resp: 75172

Ion Ratio Lower Upper

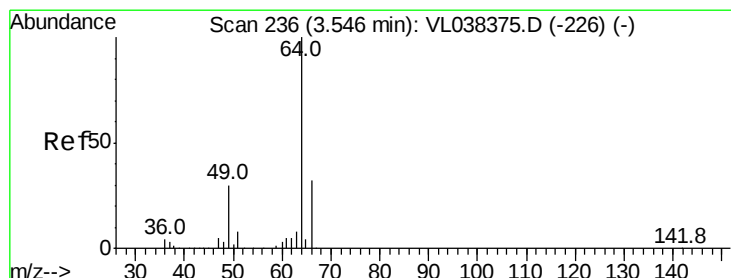
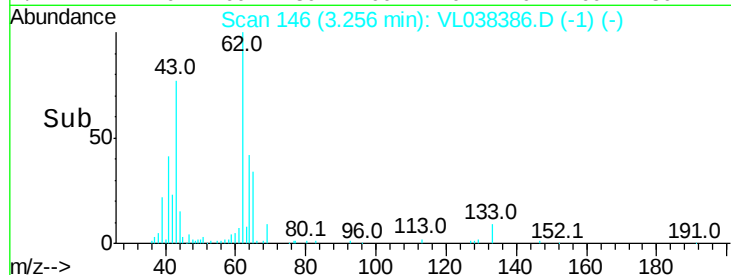
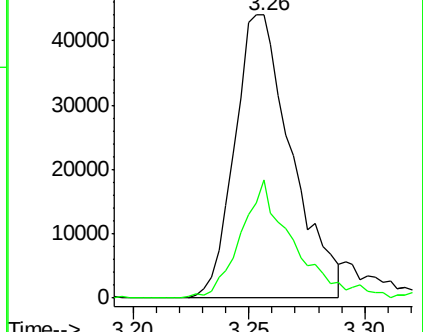
62 100

64 41.2 26.2 39.2#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#7

Chloroethane

Concen: 0.69 ppbv

RT: 3.55 min Scan# 237

Delta R.T. 0.00 min

Lab File: VL038386.D

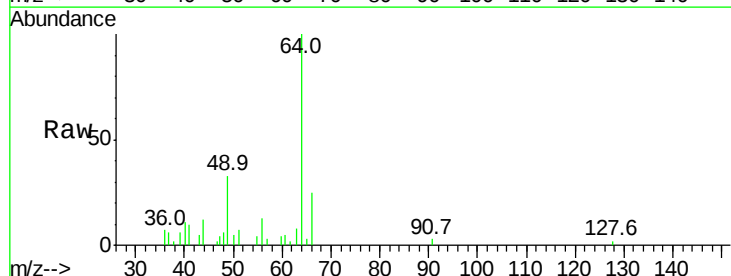
Acq: 22 Feb 2022 13:01

Tgt Ion: 64 Resp: 13587

Ion Ratio Lower Upper

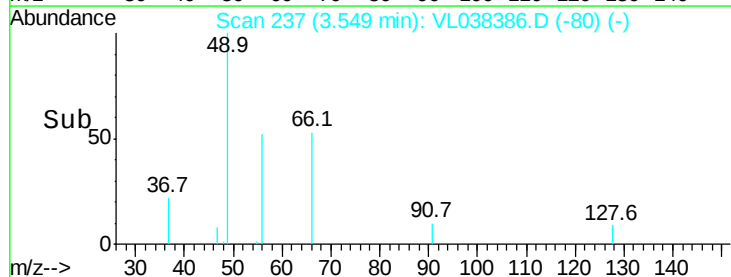
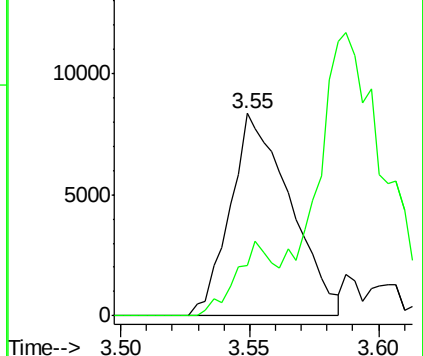
64 100

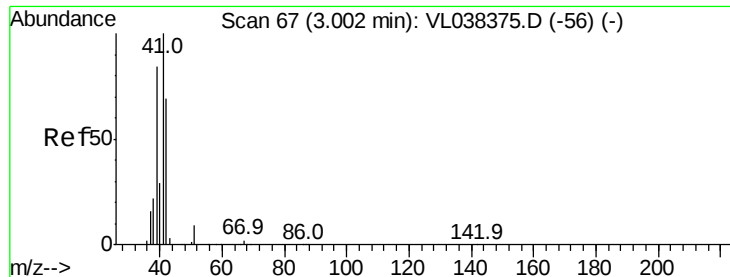
66 24.8 25.9 38.9#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 15.00 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

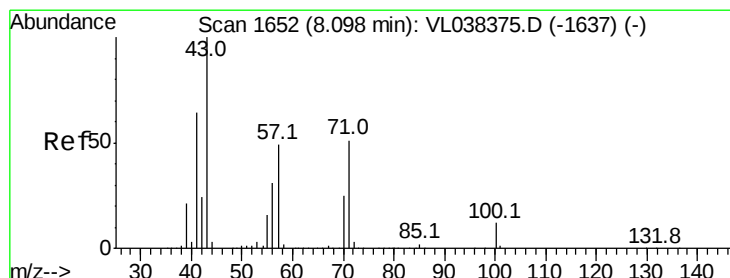
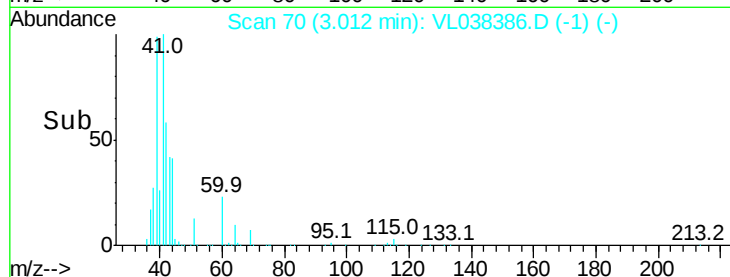
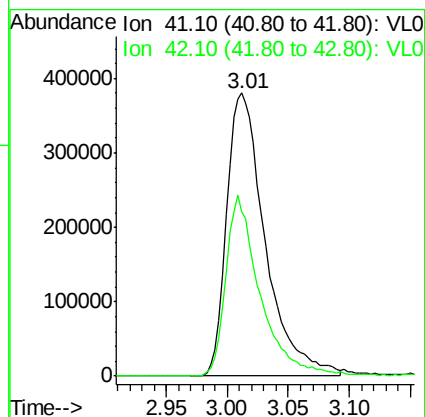
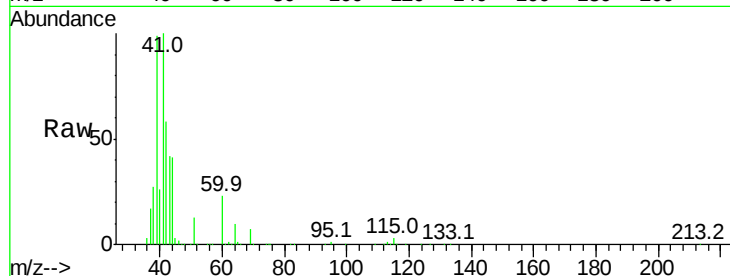
Acq: 22 Feb 2022 13:01 SG-FAM4GL-3DL

Tgt Ion: 41 Resp: 840404

Ion Ratio Lower Upper

41 100

42 57.2 54.6 82.0



#10

Heptane

Concen: 0.85 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. 0.01 min

Lab File: VL038386.D

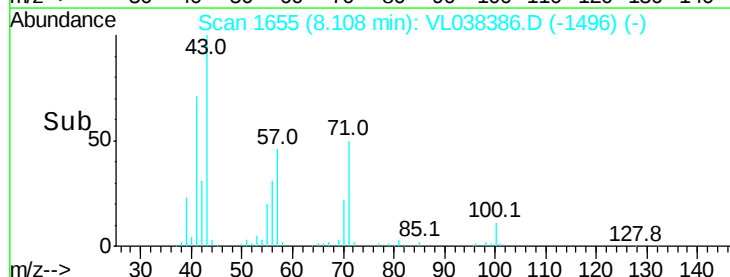
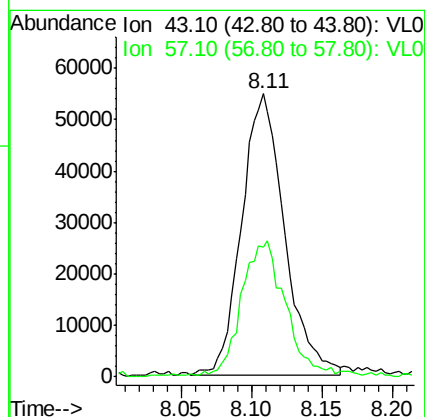
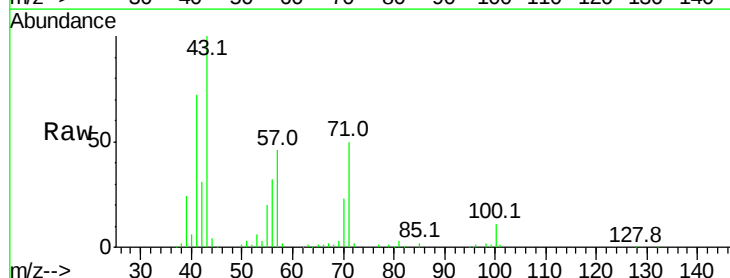
Acq: 22 Feb 2022 13:01

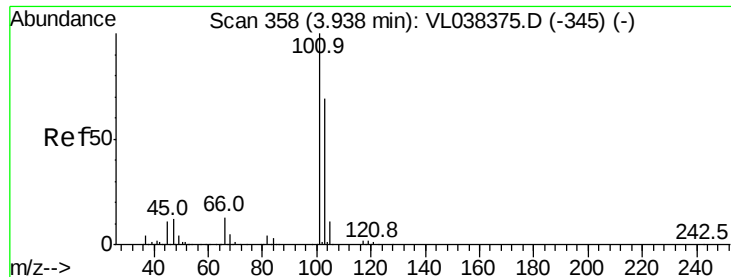
Tgt Ion: 43 Resp: 115856

Ion Ratio Lower Upper

43 100

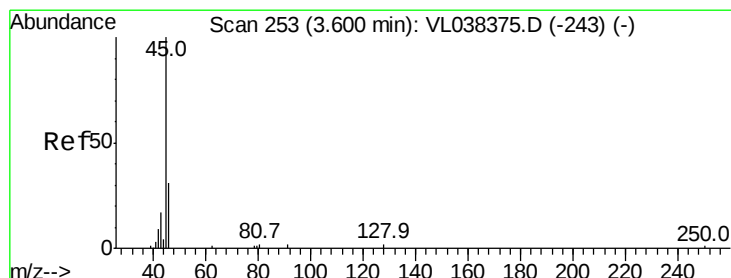
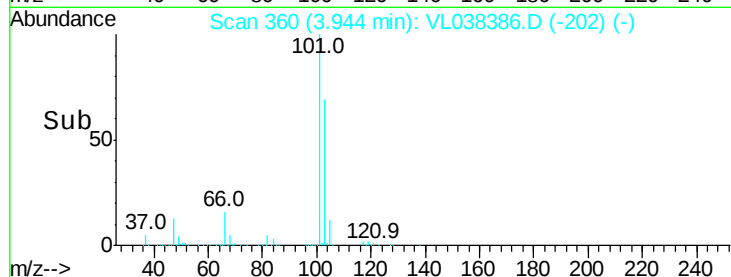
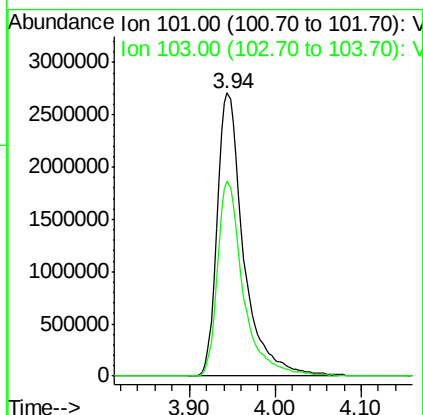
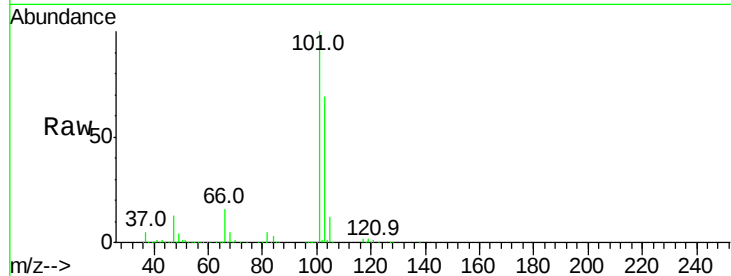
57 51.9 39.8 59.8





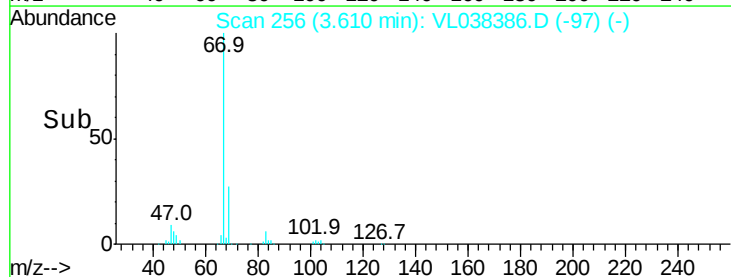
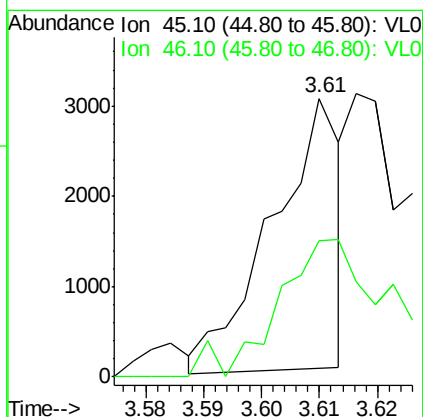
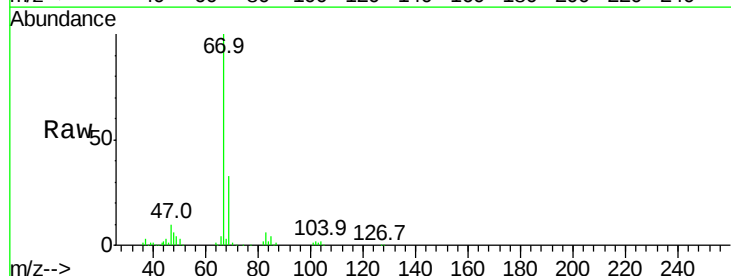
#11
 Trichlorofluoromethane
 Concen: 39.89 ppbv
 RT: 3.94
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 13:01

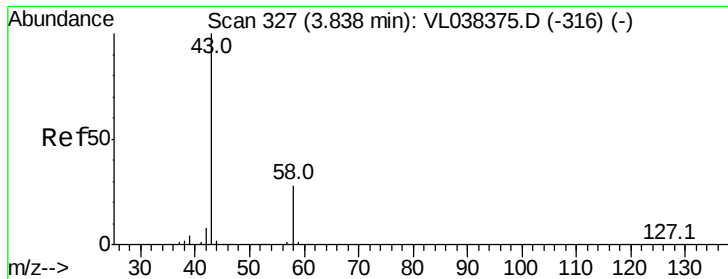
Tgt Ion: 101 Resp: 5814899
 Ion Ratio Lower Upper
 101 100
 103 68.8 55.0 82.4



#13
 Ethanol
 Concen: 0.44 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. 0.01 min
 Lab File: VL038386.D
 Acq: 22 Feb 2022 13:01

Tgt Ion: 45 Resp: 2466
 Ion Ratio Lower Upper
 45 100
 46 0.0 18.2 72.8#





#15

Acetone

Concen: 19.41 ppbv

RT: 3.87

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

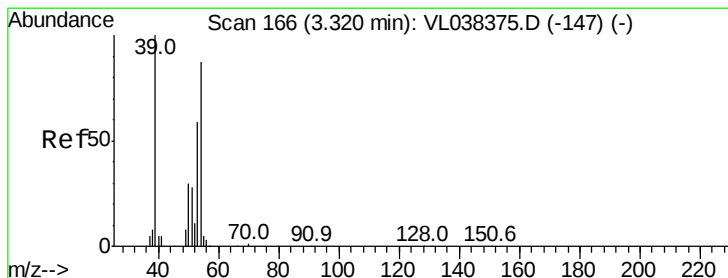
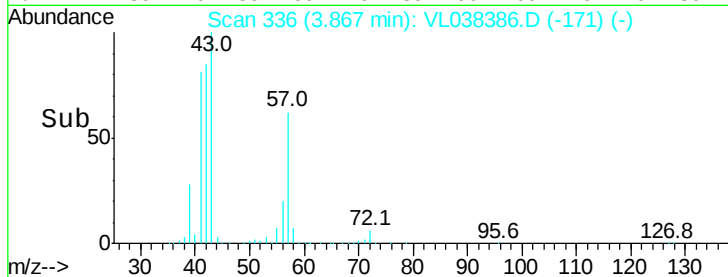
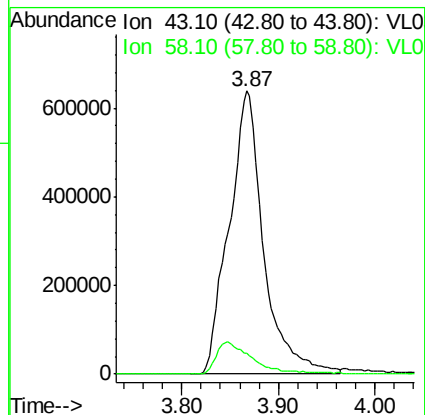
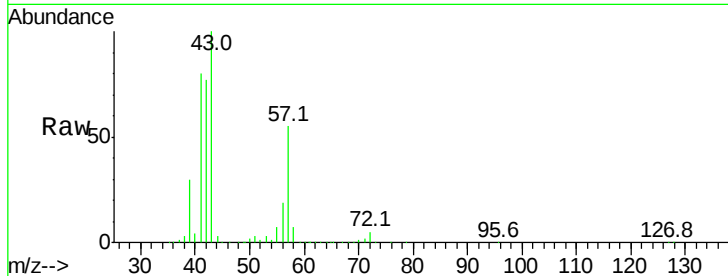
Acq: 22 Feb 2022 13:01

Tgt Ion: 43 Resp: 1586770

Ion Ratio Lower Upper

43 100

58 12.7 21.7 32.5#



#16

1,3-Butadiene

Concen: 3.65 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.02 min

Lab File: VL038386.D

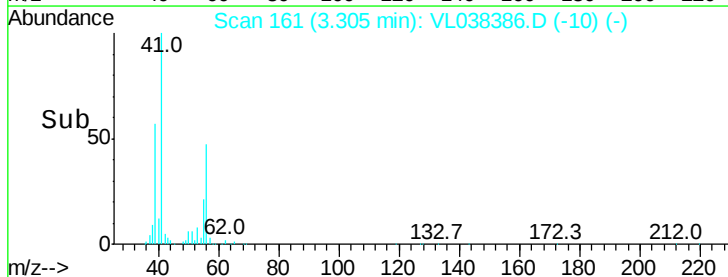
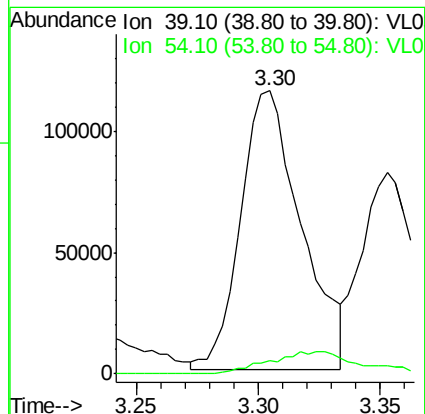
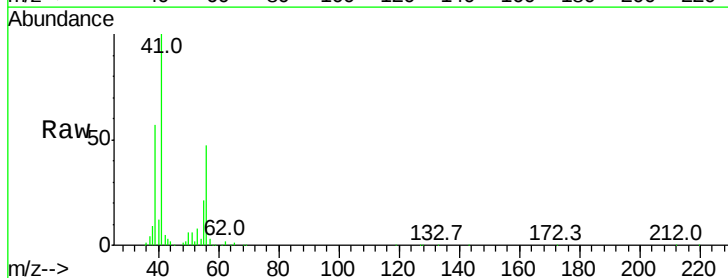
Acq: 22 Feb 2022 13:01

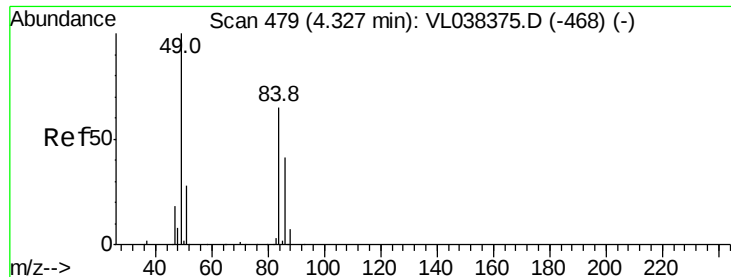
Tgt Ion: 39 Resp: 199103

Ion Ratio Lower Upper

39 100

54 12.2 60.3 90.5#





#20

Methylene Chloride

Concen: 0.83 ppbv

RT: 4.34

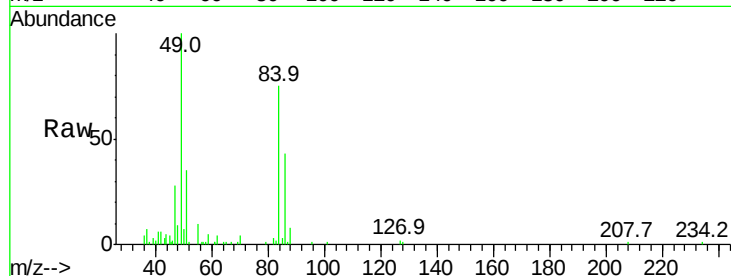
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Feb 2022 13:01

Tgt Ion: 84 Resp: 33705

Ion	Ratio	Lower	Upper
84	100		
49	131.8	122.4	183.6
51	45.8	33.3	49.9
86	56.6	50.7	76.1

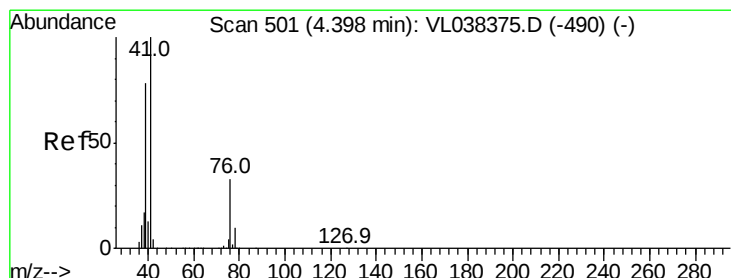
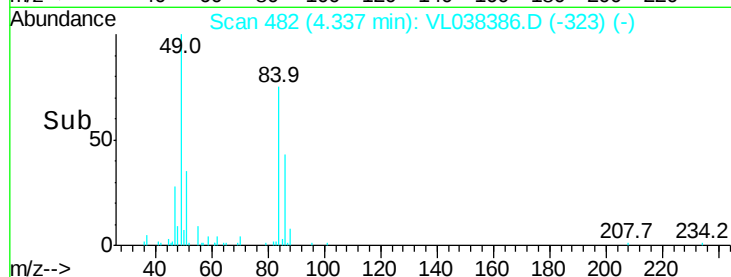
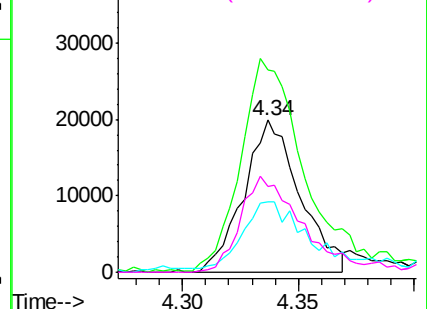


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21

Allyl Chloride

Concen: 0.13 ppbv

RT: 4.36 min Scan# 489

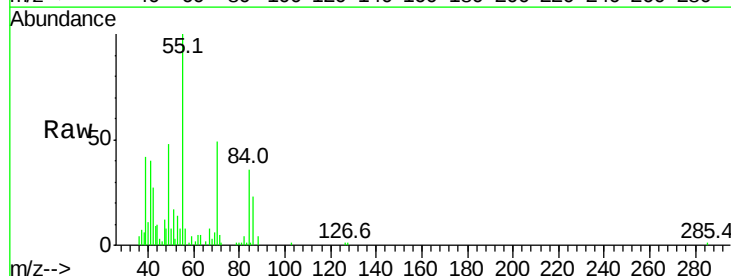
Delta R.T. -0.04 min

Lab File: VL038386.D

Acq: 22 Feb 2022 13:01

Tgt Ion: 41 Resp: 8848

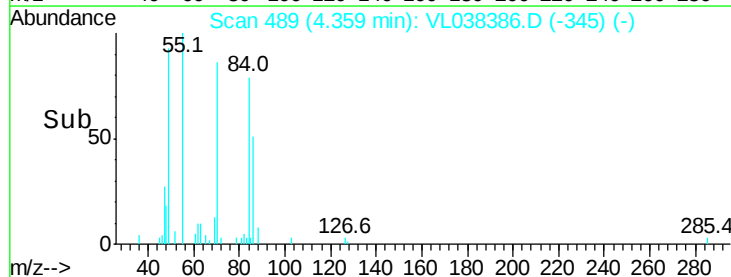
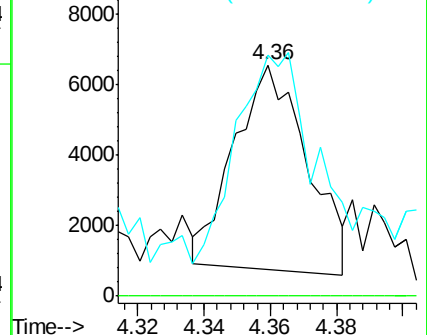
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.4	38.0#
39	199.7	63.0	94.6#

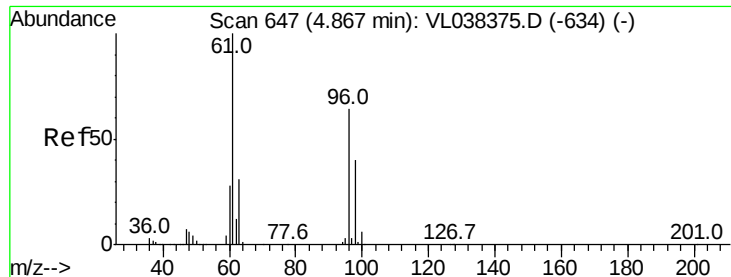


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.04 ppbv

RT: 4.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Feb 2022 13:01 SG-FAM4GL-3DL

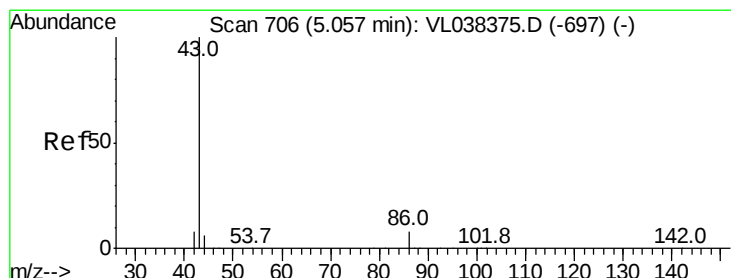
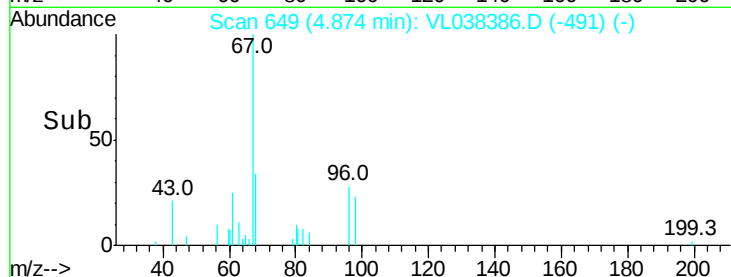
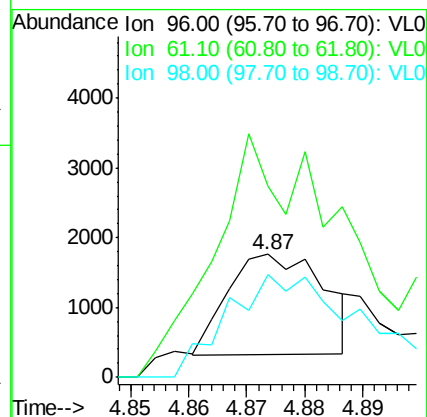
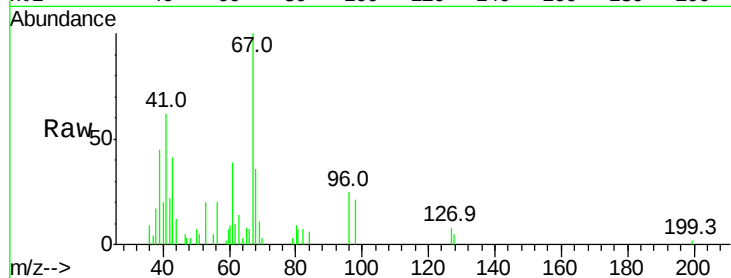
Tgt Ion: 96 Resp: 1664

Ion Ratio Lower Upper

96 100

61 106.5 124.2 186.4#

98 68.5 49.1 73.7



#23

Vinyl Acetate

Concen: 1.10 ppbv

RT: 5.04 min Scan# 702

Delta R.T. -0.01 min

Lab File: VL038386.D

Acq: 22 Feb 2022 13:01

Tgt Ion: 43 Resp: 119220

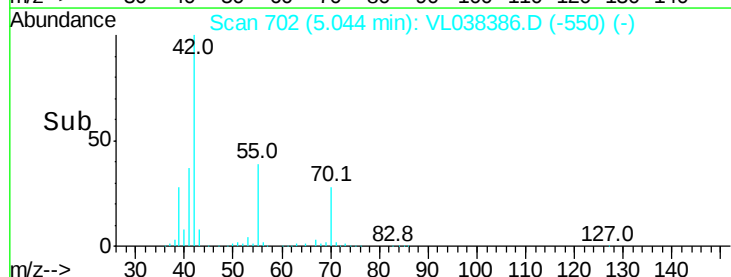
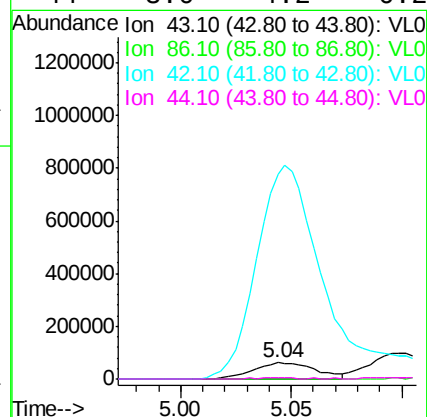
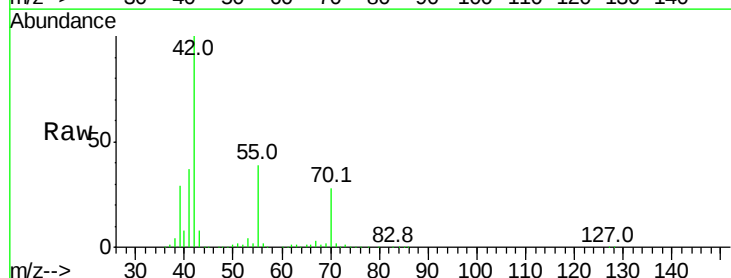
Ion Ratio Lower Upper

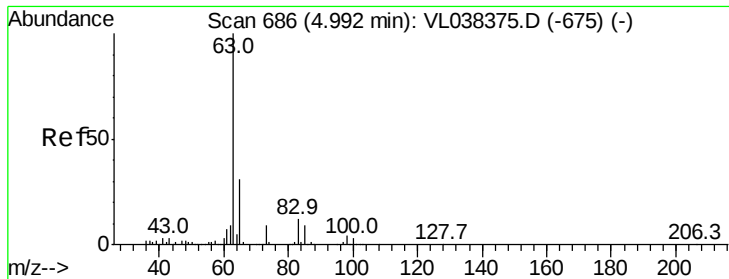
43 100

86 1.2 5.8 8.6#

42 1247.1 7.4 11.0#

44 3.0 4.2 6.2#





#24

1,1-Dichloroethane

Concen: 0.21 ppbv

RT: 5.00 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 22 Feb 2022 13:01 SG-FAM4GL-3DL

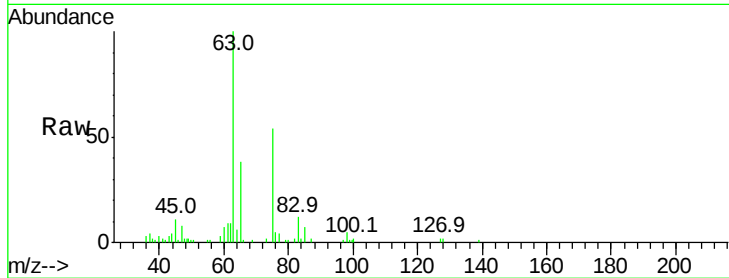
Tgt Ion: 63 Resp: 20833

Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.5

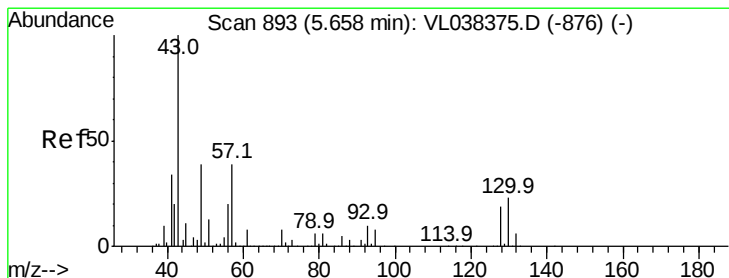
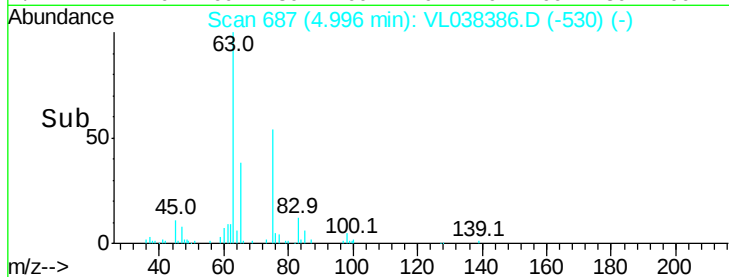
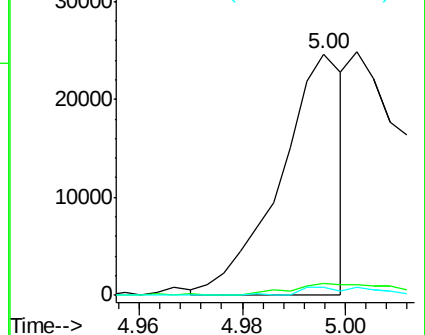
100 3.5 1.4 4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.59 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.02 min

Lab File: VL038386.D

Acq: 22 Feb 2022 13:01

Tgt Ion: 43 Resp: 129880

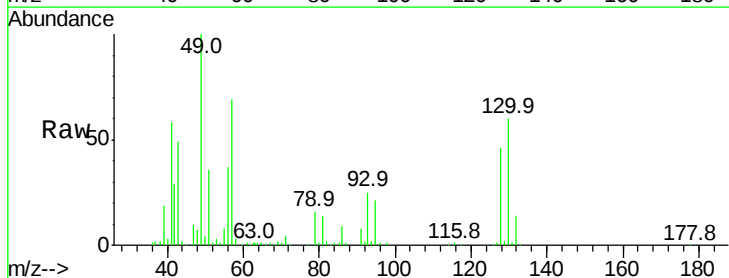
Ion Ratio Lower Upper

43 100

45 1.0 7.8 11.6#

61 0.0 7.5 11.3#

70 2.4 5.4 8.0#

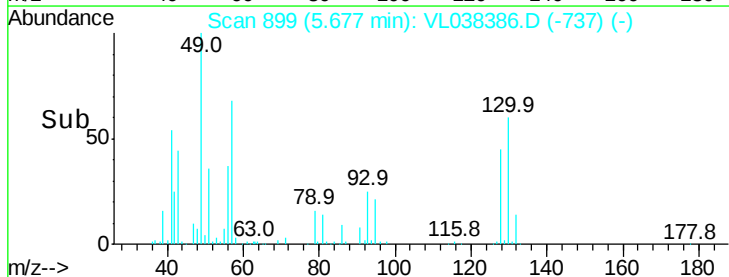
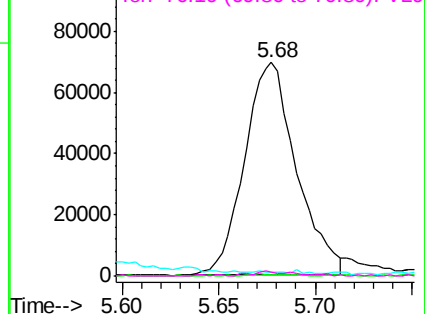


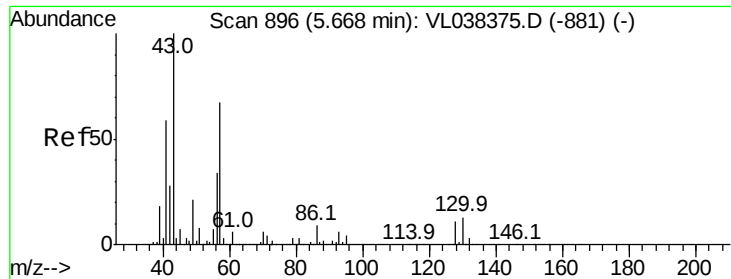
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.93 ppbv

RT: 5.67

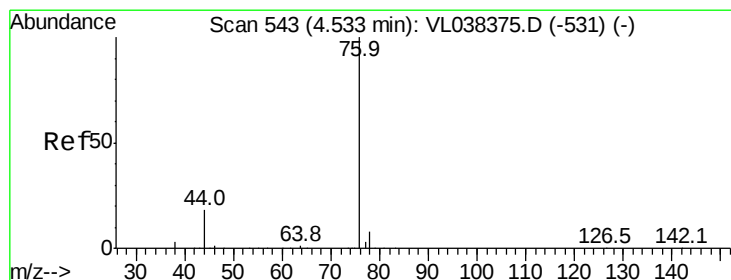
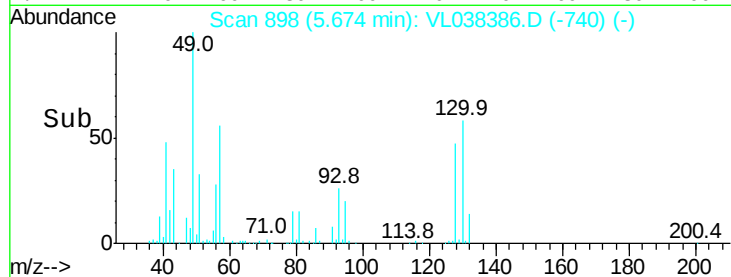
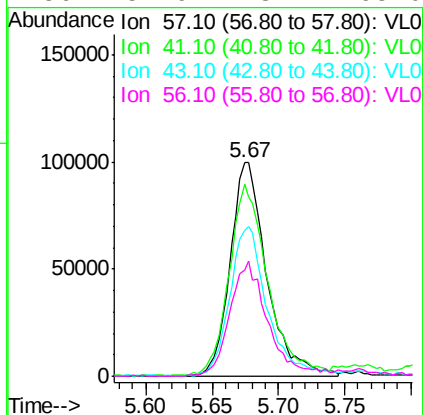
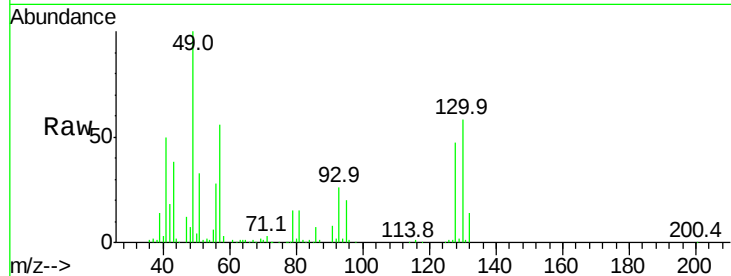
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Feb 2022 13:01

Tgt Ion: 57 Resp: 191628

Ion	Ratio	Lower	Upper
57	100		
41	97.6	73.1	109.7
43	75.8	181.0	271.4#
56	54.9	43.4	65.0



#27

Carbon Disulfide

Concen: 2.53 ppbv

RT: 4.54 min Scan# 546

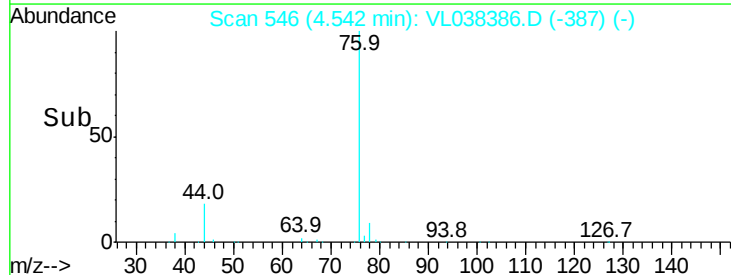
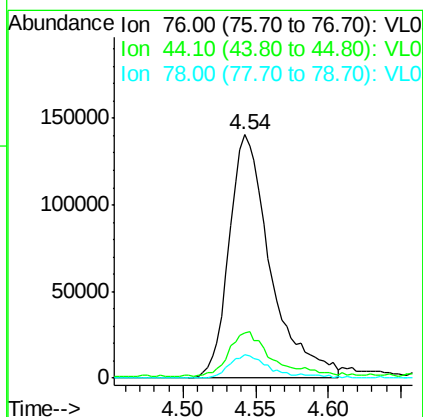
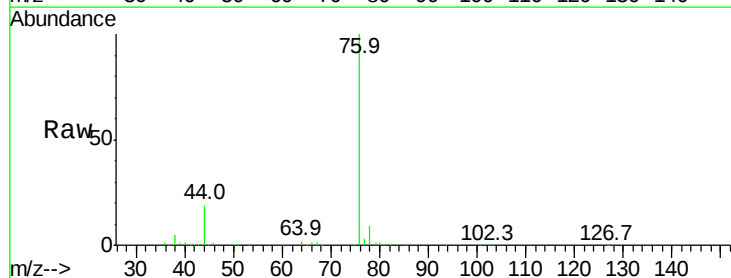
Delta R.T. 0.01 min

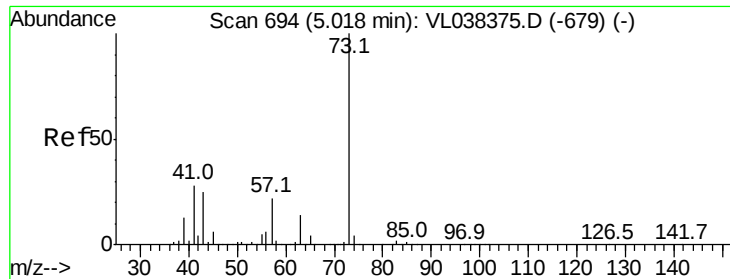
Lab File: VL038386.D

Acq: 22 Feb 2022 13:01

Tgt Ion: 76 Resp: 279516

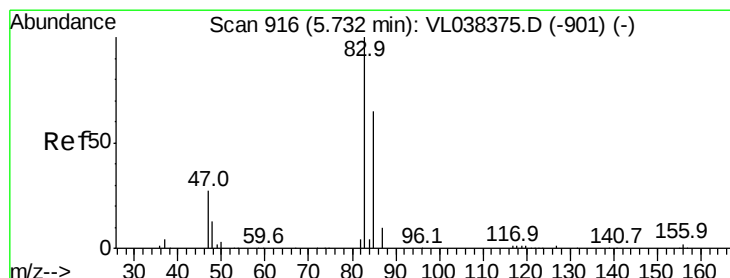
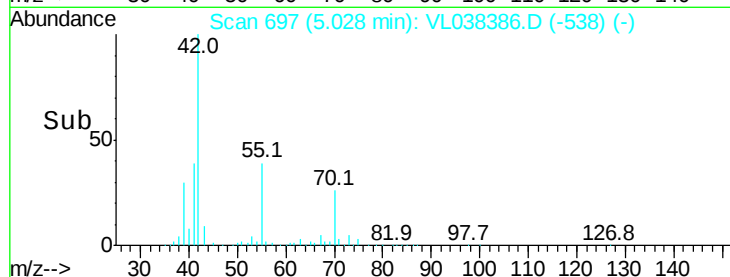
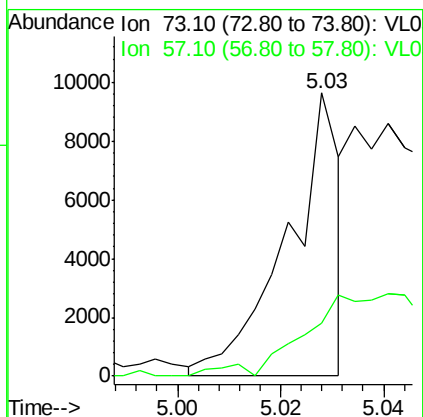
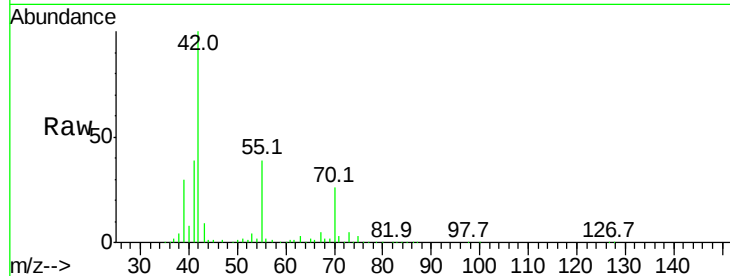
Ion	Ratio	Lower	Upper
76	100		
44	19.9	14.2	21.2
78	9.7	7.8	11.6





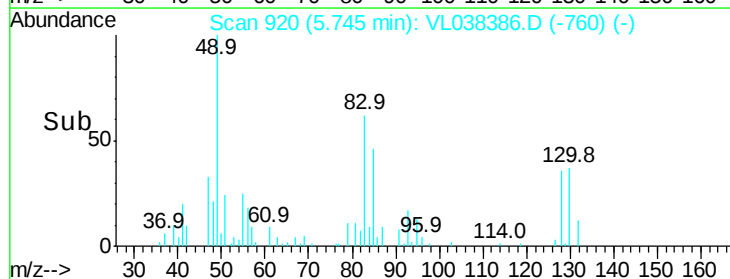
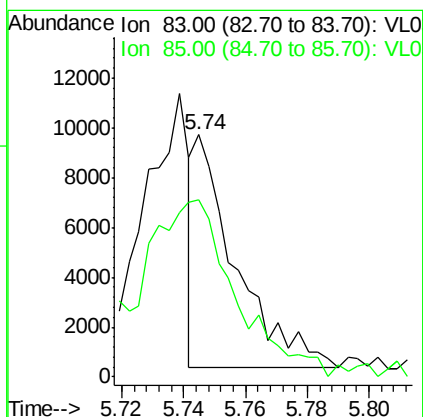
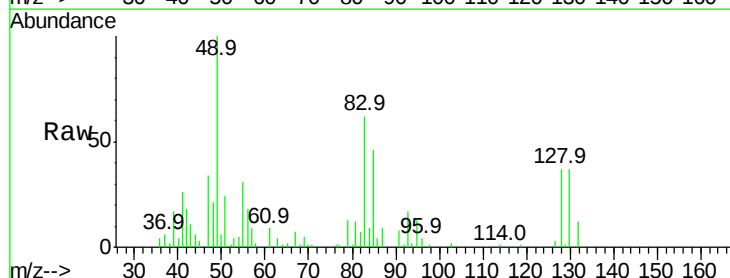
#28
Methyl tert-Butyl Ether
Concen: 0.07 ppbv
RT: 5.03
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
SG-FAM4GL-3DL
Acq: 22 Feb 2022 13:01

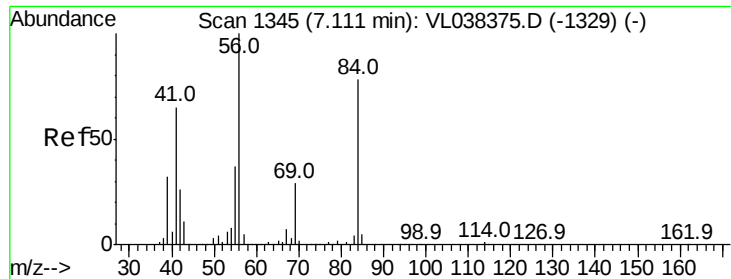
Tgt Ion: 73 Resp: 6809
Ion Ratio Lower Upper
73 100
57 0.0 18.2 27.4#



#29
Chloroform
Concen: 0.05 ppbv
RT: 5.74 min Scan# 920
Delta R.T. 0.01 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

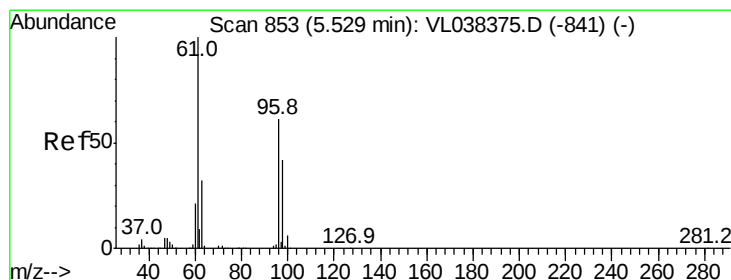
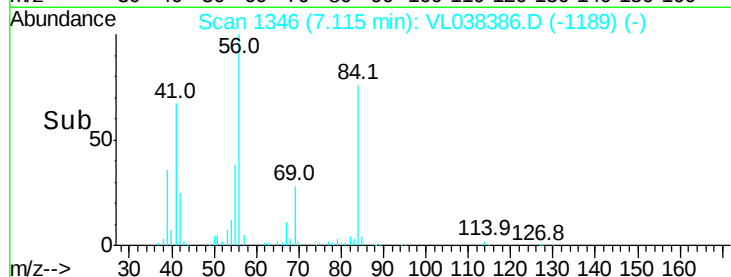
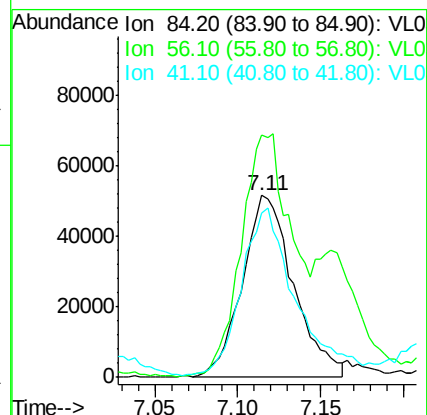
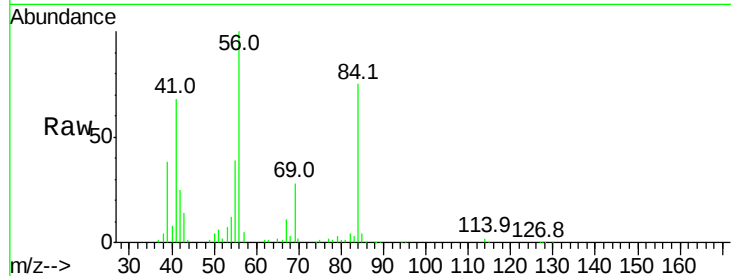
Tgt Ion: 83 Resp: 8588
Ion Ratio Lower Upper
83 100
85 71.1 51.6 77.4





#30
Cyclohexane
Concen: 1.36 ppbv
RT: 7.11
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 22 Feb 2022 13:01

Tgt Ion: 84 Resp: 110893
Ion Ratio Lower Upper
84 100
56 193.2 116.2 174.4#
41 95.5 74.3 111.5



#31
cis-1,2-Dichloroethene
Concen: 2.08 ppbv
RT: 5.54 min Scan# 855
Delta R.T. 0.01 min
Lab File: VL038386.D
Acq: 22 Feb 2022 13:01

Tgt Ion: 61 Resp: 200090
Ion Ratio Lower Upper
61 100
96 63.6 48.6 73.0
98 39.1 33.2 49.8

