

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061322\
 Data File : VL039267.D
 Acq On : 14 Jun 2022 1:20
 Operator : SY/AP
 Sample : N3306-02 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

Quant Time: Jun 14 02:53:40 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1208003	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2733133	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2285847	10.00	ppbv	0.00

System Monitoring Compounds

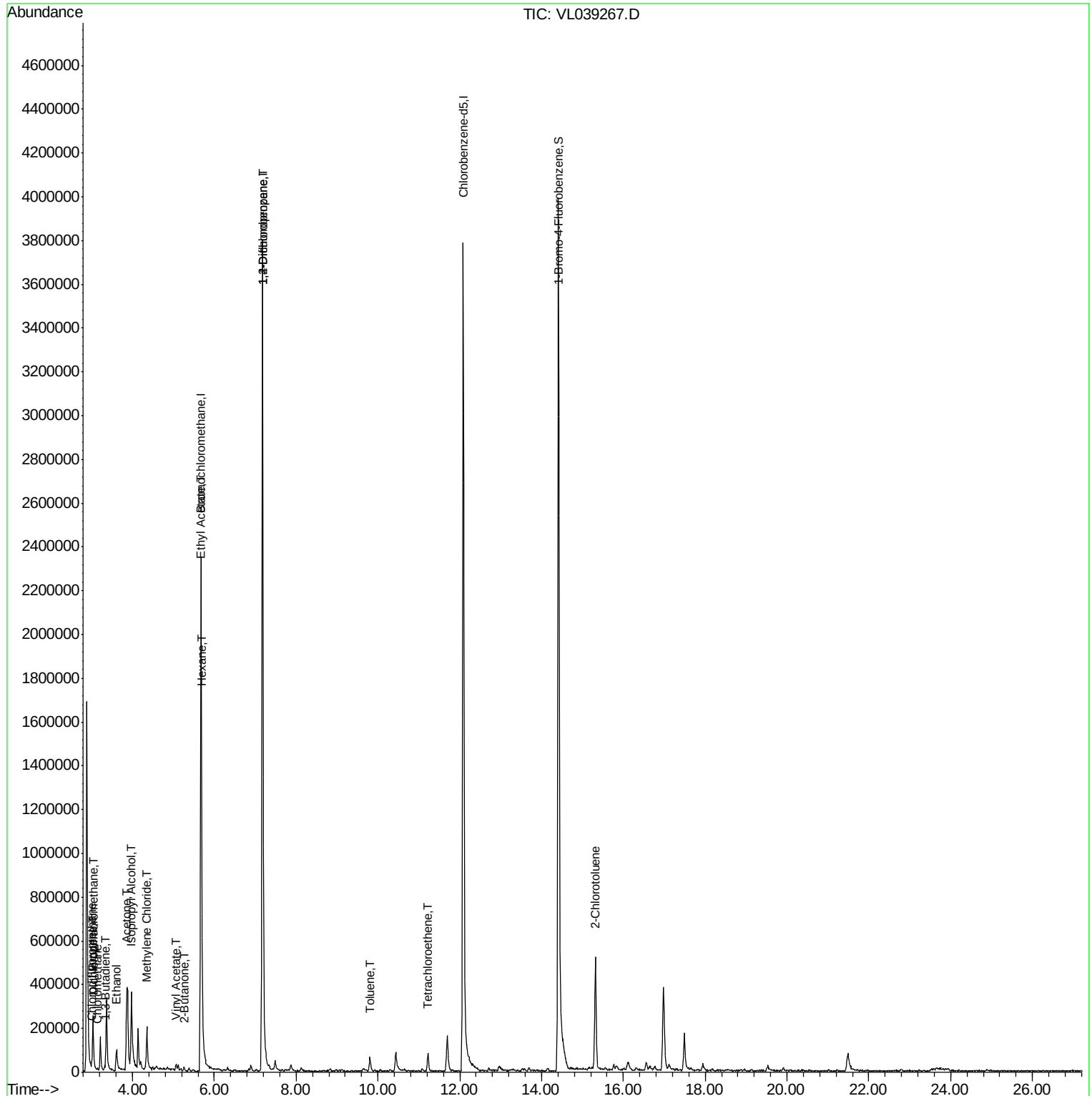
68) 1-Bromo-4-Fluorobenzene	14.42	95	1932508	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

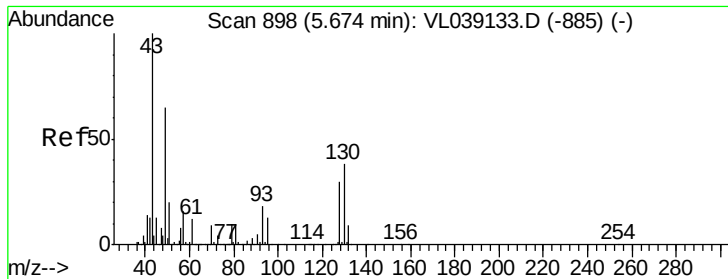
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	8096	0.038 ppbv	96
3) Chlorodifluoromethane	3.00	51	26700	0.174 ppbv #	86
4) Chloromethane	3.15	50	3127	0.040 ppbv #	60
9) Propene	3.03	41	66831	0.997 ppbv #	74
13) Ethanol	3.60	45	56132	15.358 ppbv #	100
15) Acetone	3.85	43	563619	4.479 ppbv	90
16) 1,3-Butadiene	3.33	39	2465	0.036 ppbv #	1
19) Isopropyl Alcohol	3.97	45	428970	7.268 ppbv #	92
20) Methylene Chloride	4.35	84	35527	0.670 ppbv	95
23) Vinyl Acetate	5.07	43	9729	0.093 ppbv #	75
25) Ethyl Acetate	5.69	43	41521	0.146 ppbv #	88
26) Hexane	5.69	57	53826	0.432 ppbv #	61
34) 2-Butanone	5.25	43	5219	0.035 ppbv #	53
39) 1,2-Dichloropropane	7.18	63	808445	9.160 ppbv #	25
52) Tetrachloroethene	11.22	164	7684	0.089 ppbv #	53
53) Toluene	9.81	91	19906	0.078 ppbv #	21
71) 2-Chlorotoluene	15.33	91	27497	0.093 ppbv #	45

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

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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: BFB

Acq: 14 Jun 2022 1:20

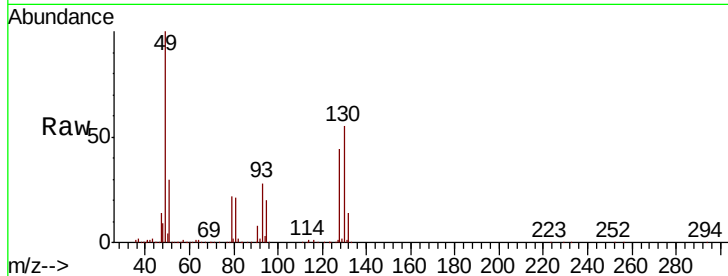
Tot Ion: 49 Resp: 1208003

Ion Ratio Lower Upper

49 100

128 47.1 24.7 74.1

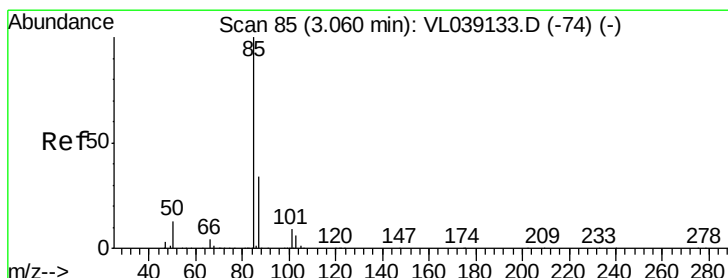
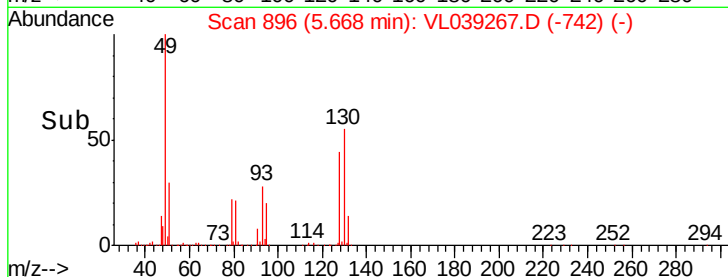
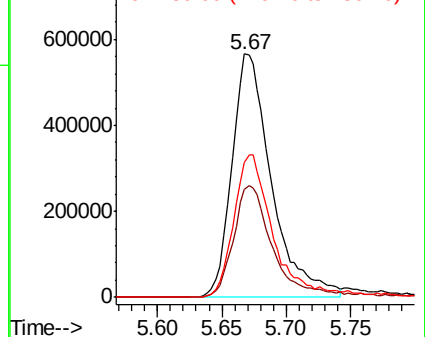
130 60.2 31.4 94.0



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: 0.038 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.01 min

Lab File: VL039267.D

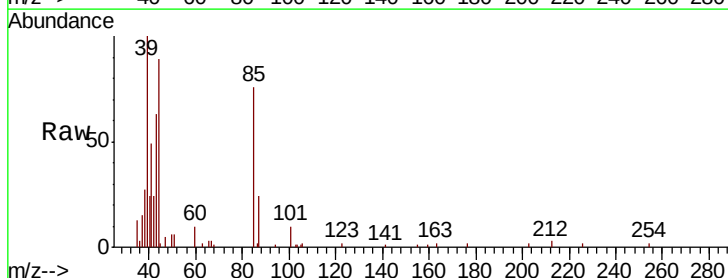
Acq: 14 Jun 2022 1:20

Tgt Ion: 85 Resp: 8096

Ion Ratio Lower Upper

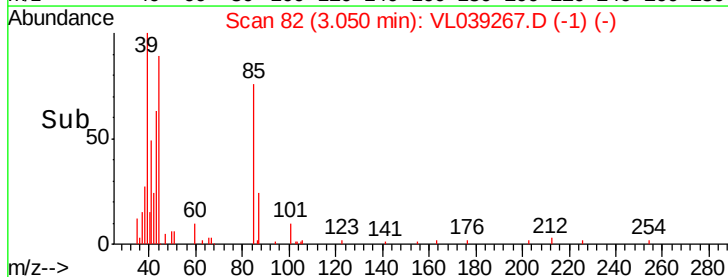
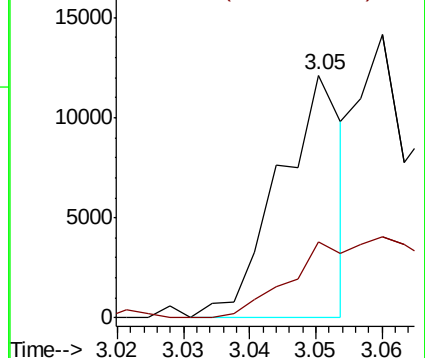
85 100

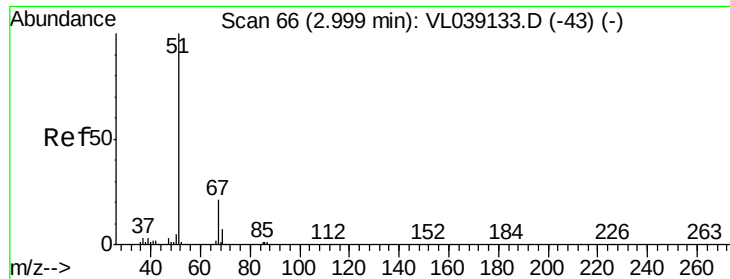
87 31.3 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.174 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

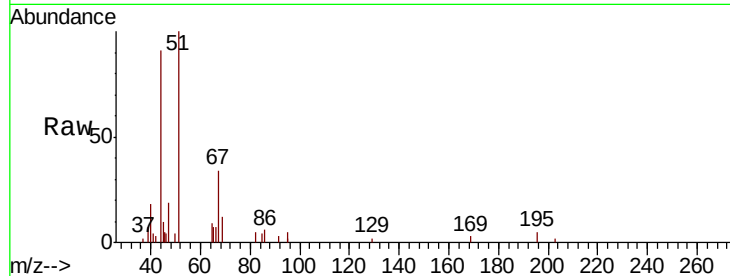
Acq: 14 Jun 2022 1:20 BFB

Tot Ion: 51 Resp: 26700

Ion Ratio Lower Upper

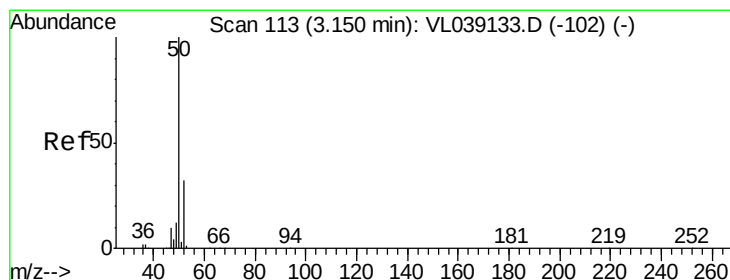
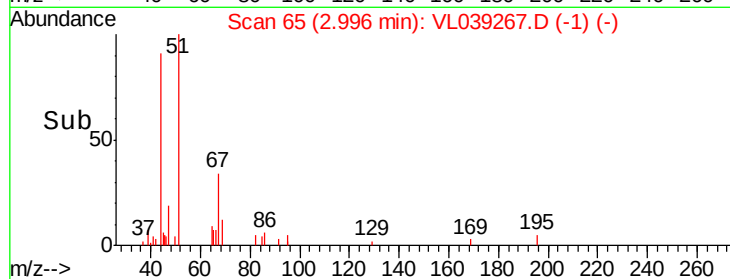
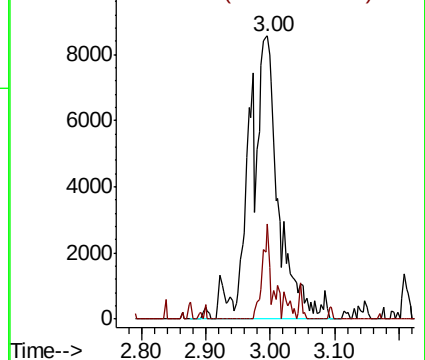
51 100

67 13.8 16.2 24.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.040 ppbv

RT: 3.15 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL039267.D

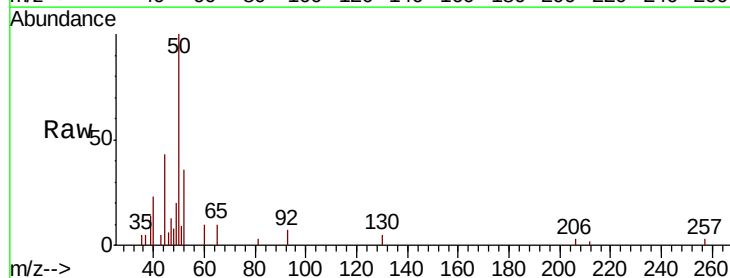
Acq: 14 Jun 2022 1:20

Tgt Ion: 50 Resp: 3127

Ion Ratio Lower Upper

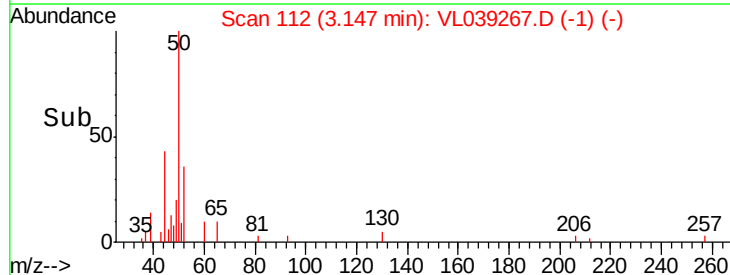
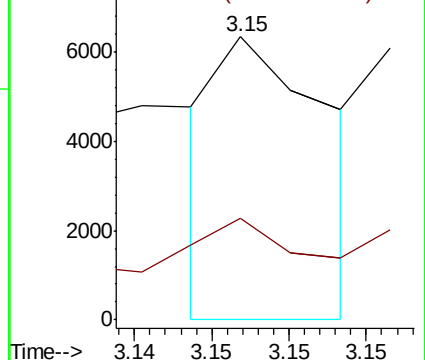
50 100

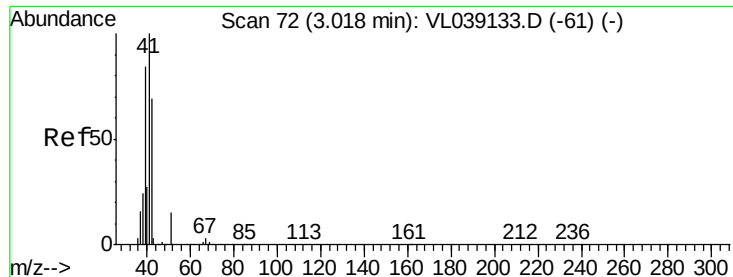
52 54.8 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

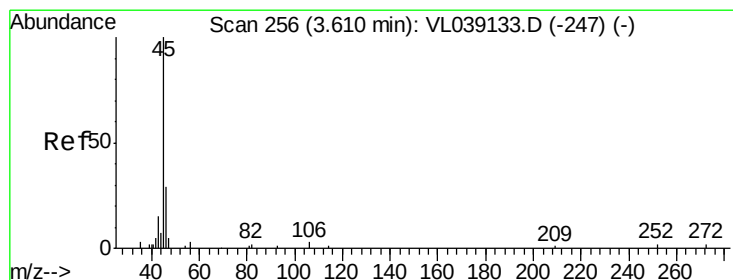
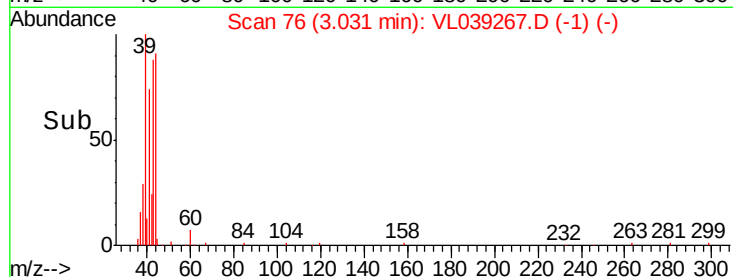
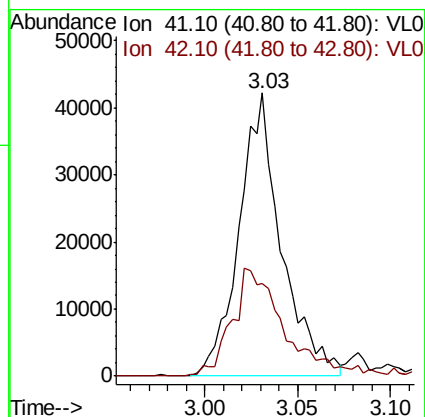
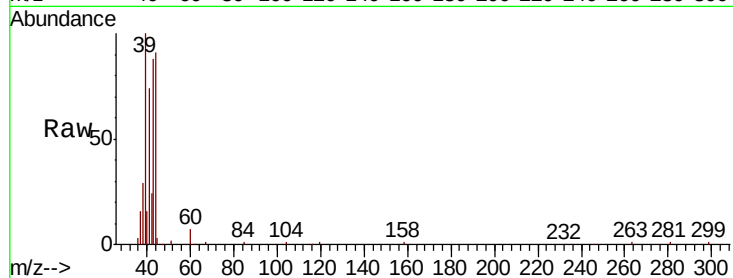
Ion 52.10 (51.80 to 52.80): VL0





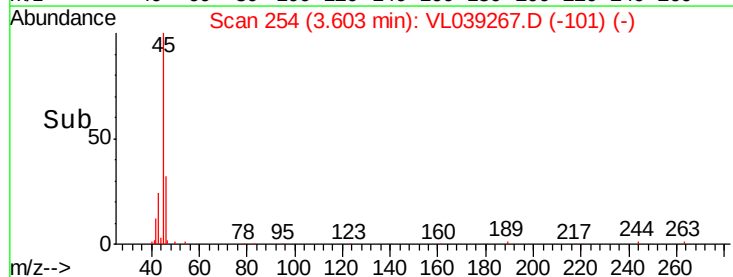
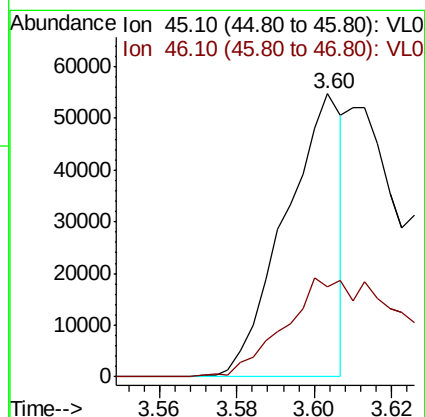
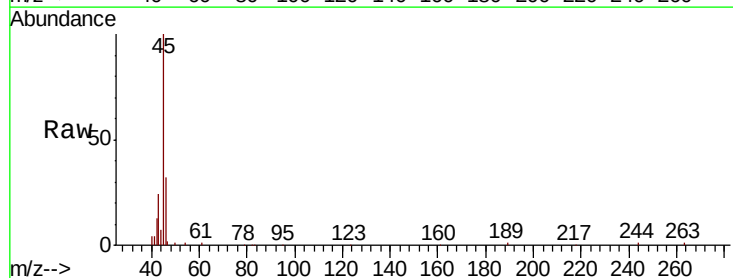
#9
 Propene
 Concen: 0.997 ppbv
 RT: 3.03
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 BFB
 Acq: 14 Jun 2022 1:20

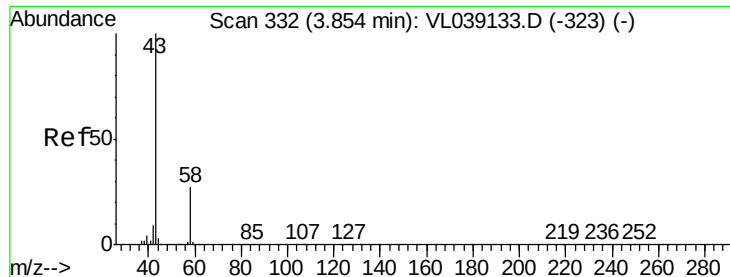
Tot Ion: 41 Resp: 66831
 Ion Ratio Lower Upper
 41 100
 42 47.7 55.4 83.2#



#13
 Ethanol
 Concen: 15.358 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.01 min
 Lab File: VL039267.D
 Acq: 14 Jun 2022 1:20

Tgt Ion: 45 Resp: 56132
 Ion Ratio Lower Upper
 45 100
 46 98.9 0.0 0.0#





#15

Acetone

Concen: 4.479 ppbv

RT: 3.85 Instrument: MSVOA_1

Delta R.T. -0.01 min

Lab File: ClientSampleId: BFB

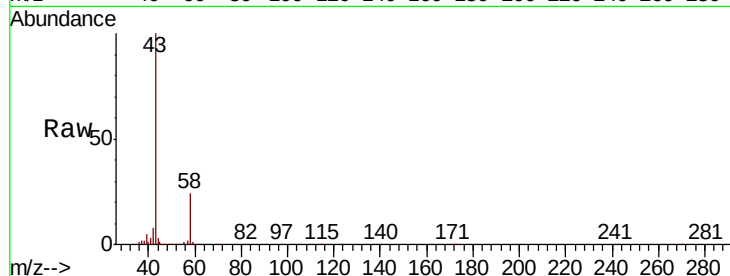
Acq: 14 Jun 2022 1:20

Tot Ion: 43 Resp: 563619

Ion Ratio Lower Upper

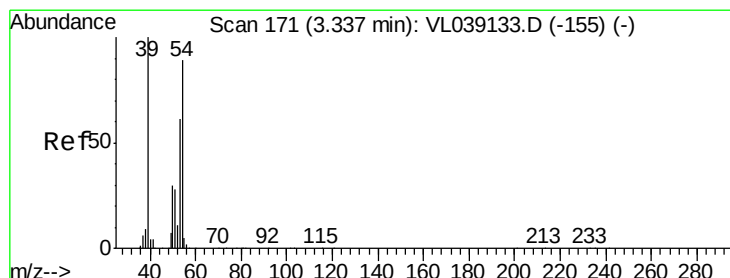
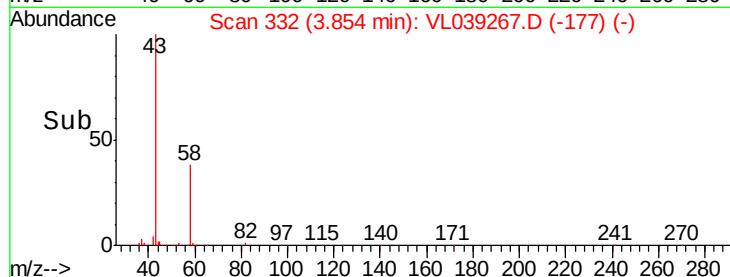
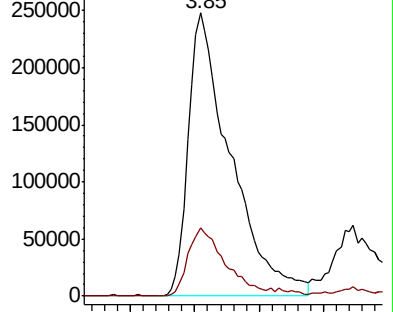
43 100

58 22.7 22.5 33.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.036 ppbv

RT: 3.33 min Scan# 169

Delta R.T. -0.01 min

Lab File: VL039267.D

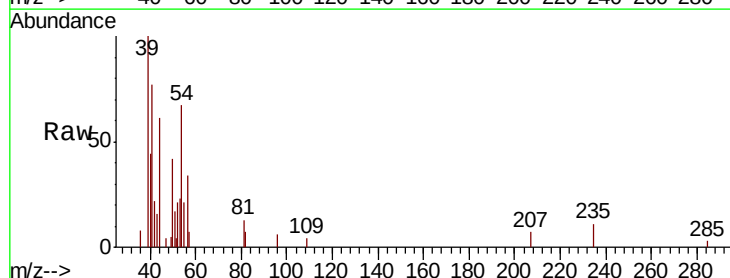
Acq: 14 Jun 2022 1:20

Tgt Ion: 39 Resp: 2465

Ion Ratio Lower Upper

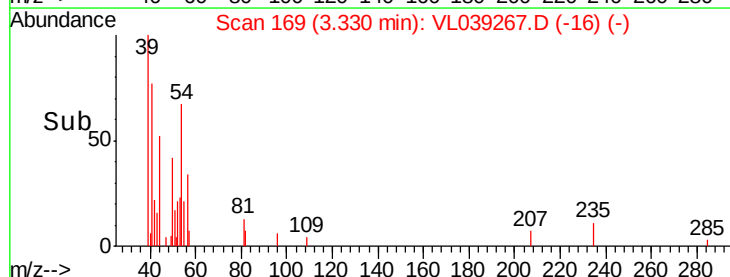
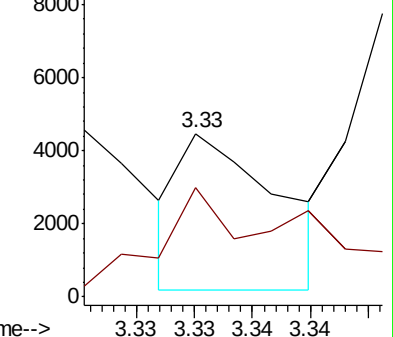
39 100

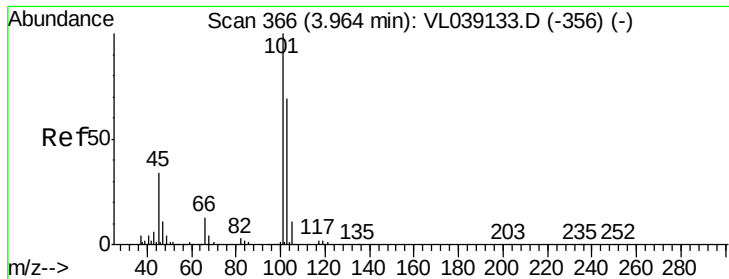
54 204.2 65.8 98.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 7.268 ppbv

RT: 3.97 Instrument: MSVOA_1

Delta R.T. BFB

Lab File: ClientSampleId :

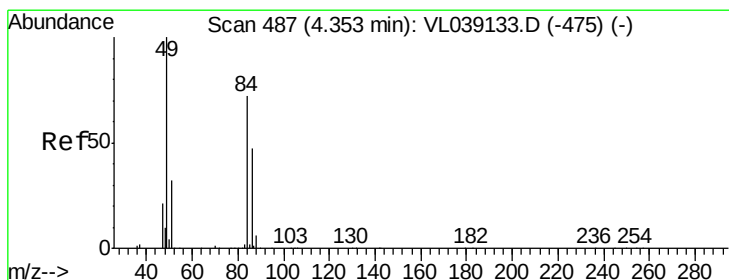
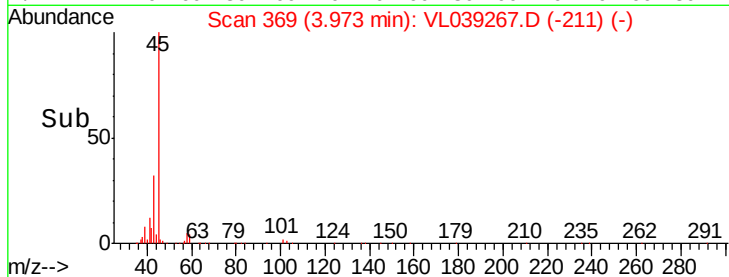
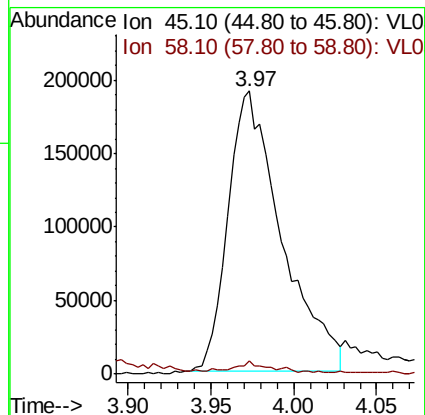
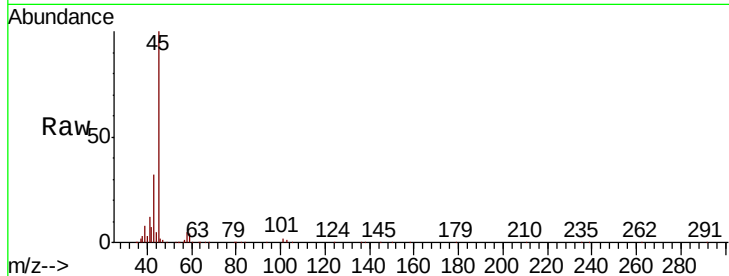
Acq: 14 Jun 2022 1:20

Tot Ion: 45 Resp: 428970

Ion Ratio Lower Upper

45 100

58 5.1 1.8 2.8#



#20

Methylene Chloride

Concen: 0.670 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.01 min

Lab File: VL039267.D

Acq: 14 Jun 2022 1:20

Tgt Ion: 84 Resp: 35527

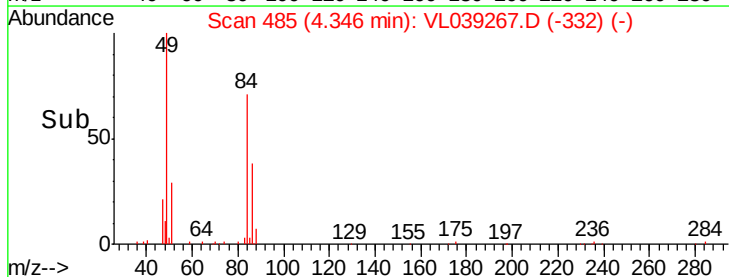
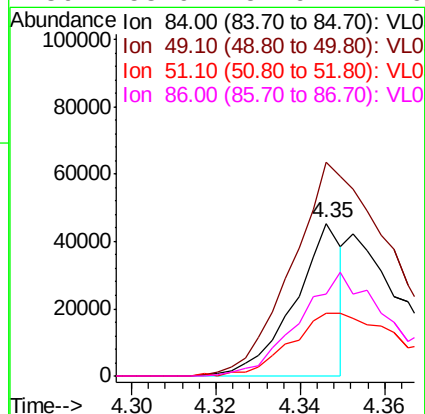
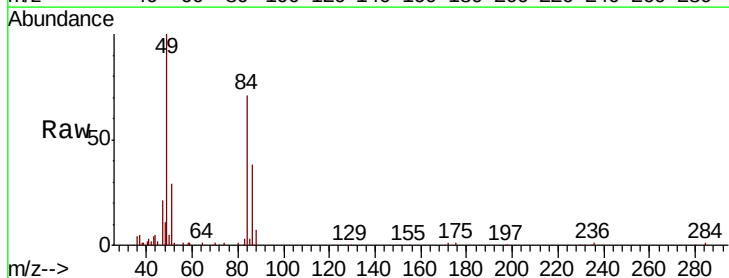
Ion Ratio Lower Upper

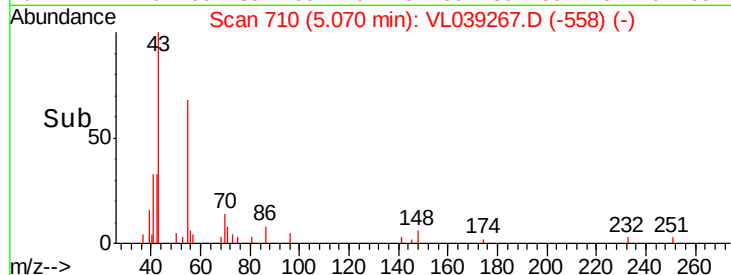
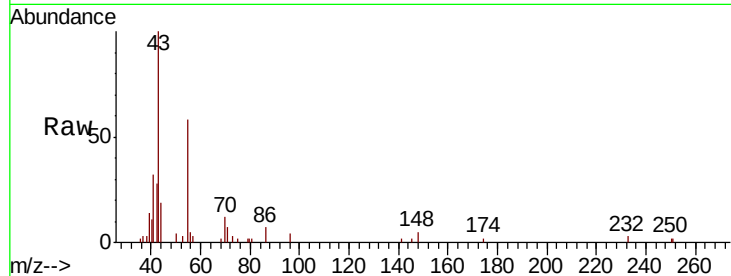
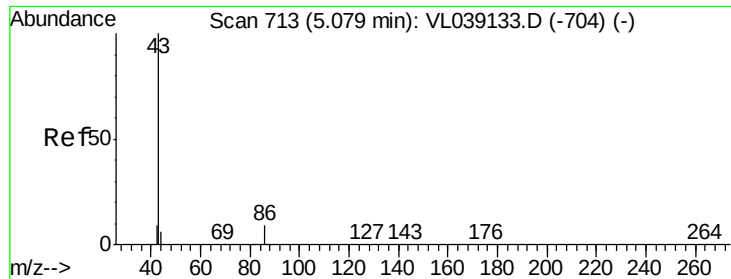
84 100

49 140.1 111.1 166.7

51 40.9 35.3 52.9

86 53.9 51.9 77.9





#23

Vinyl Acetate

Concen: 0.093 ppbv

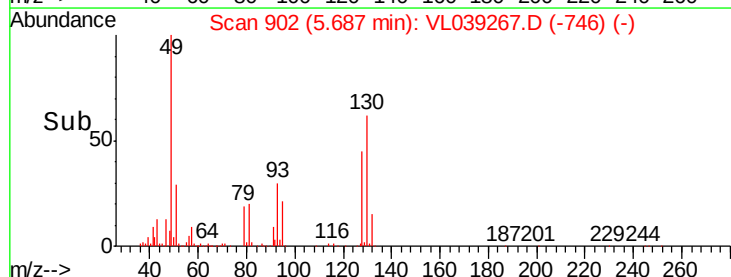
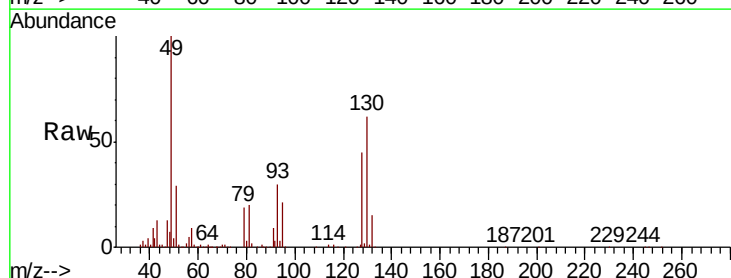
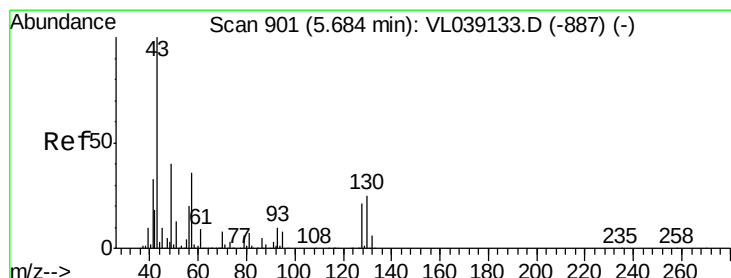
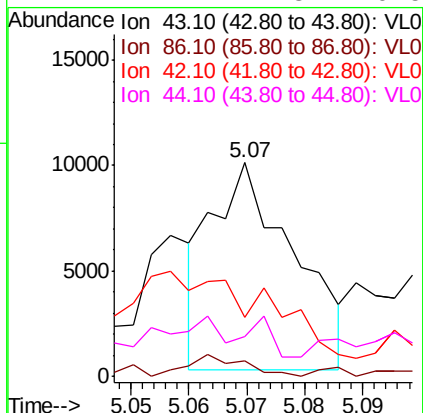
RT: 5.07 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 14 Jun 2022 1:20

Tot Ion:	43	Resp:	9729
Ion	Ratio	Lower	Upper
43	100		
86	4.2	6.0	9.0#
42	26.9	8.2	12.4#
44	2.2	4.3	6.5#



#25

Ethyl Acetate

Concen: 0.146 ppbv

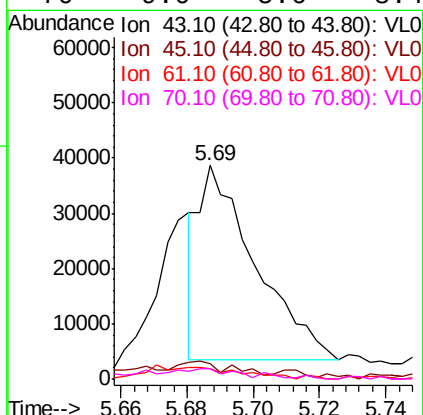
RT: 5.69 min Scan# 902

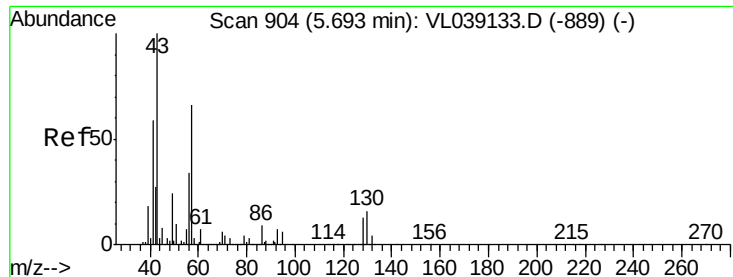
Delta R.T. 0.00 min

Lab File: VL039267.D

Acq: 14 Jun 2022 1:20

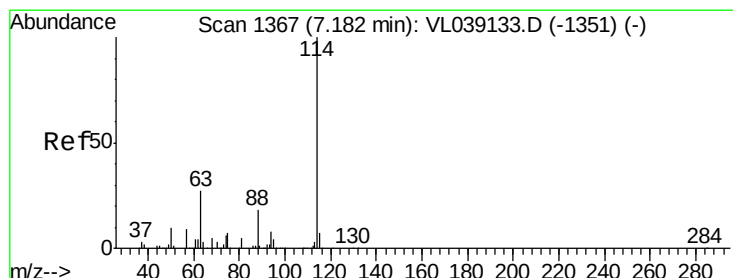
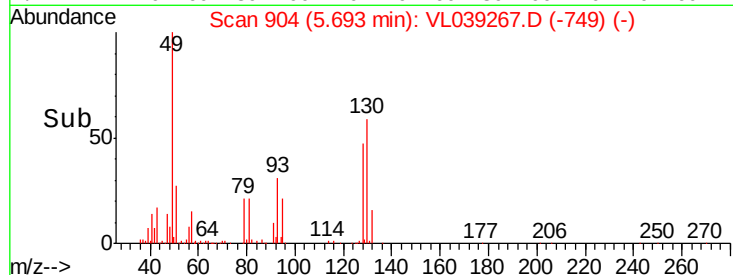
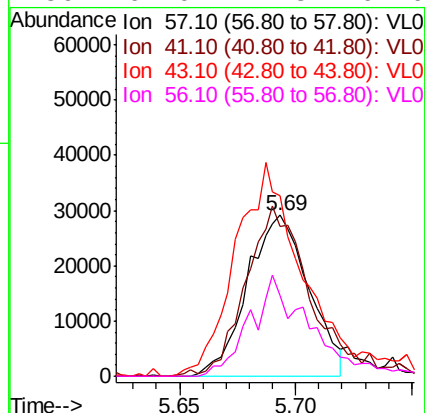
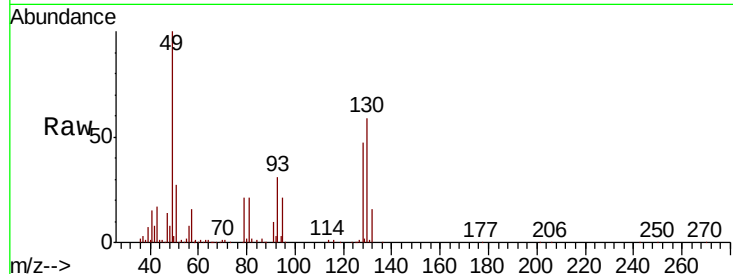
Tgt Ion:	43	Resp:	41521
Ion	Ratio	Lower	Upper
43	100		
45	19.1	8.2	12.2#
61	12.3	8.4	12.6
70	9.0	5.6	8.4#





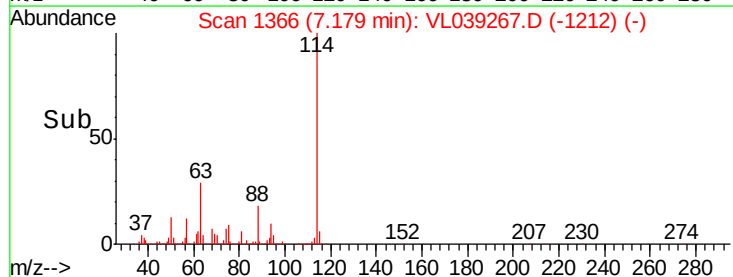
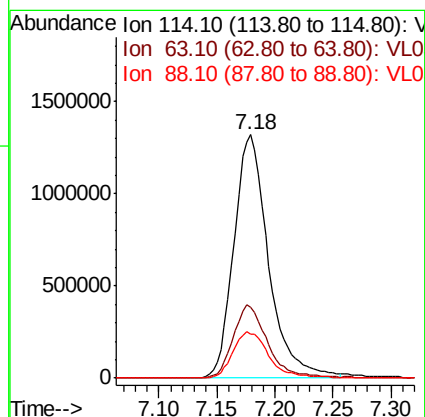
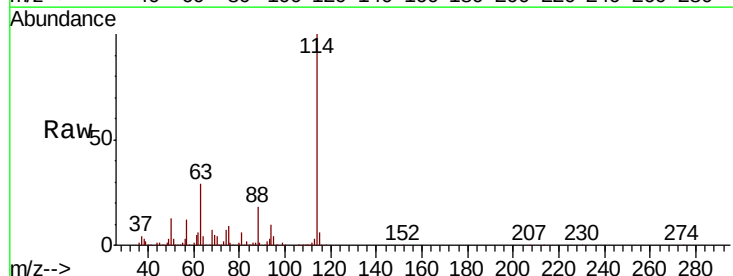
#26
Hexane
Concen: 0.432 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 1:20

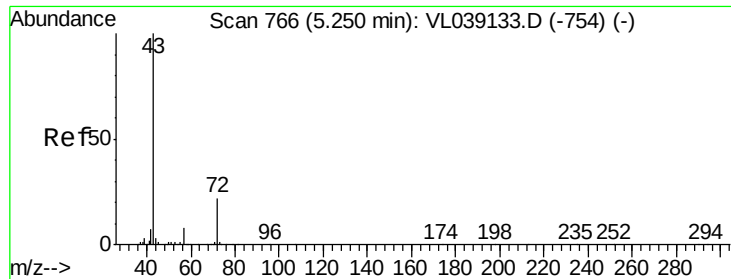
Tot Ion	57	Resp	53826
Ion	Ratio	Lower	Upper
57	100		
41	114.2	72.4	108.6#
43	151.4	187.0	280.6#
56	64.0	41.8	62.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.00 min
Lab File: VL039267.D
Acq: 14 Jun 2022 1:20

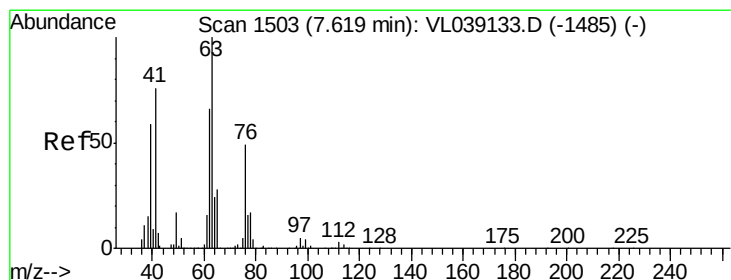
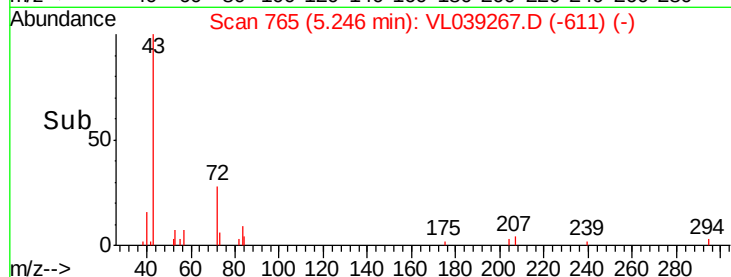
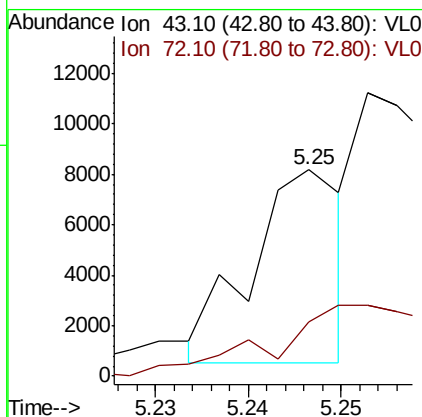
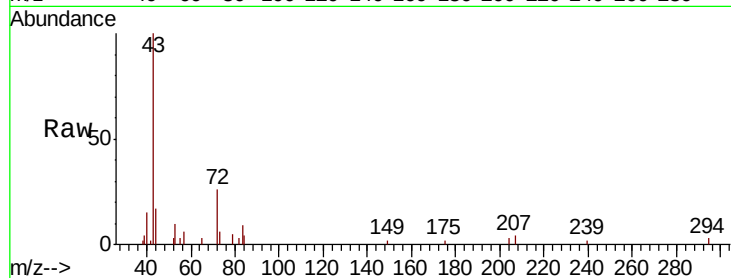
Tgt Ion	114	Resp	2733133
Ion	Ratio	Lower	Upper
114	100		
63	30.3	21.7	32.5
88	19.9	14.8	22.2





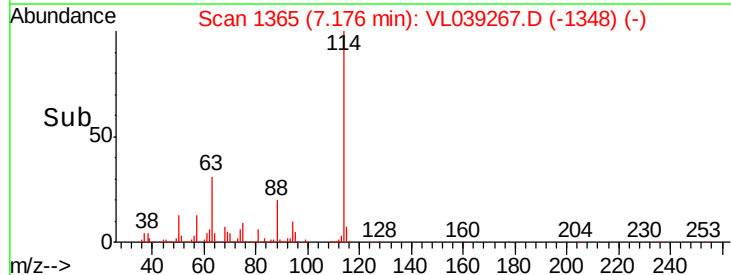
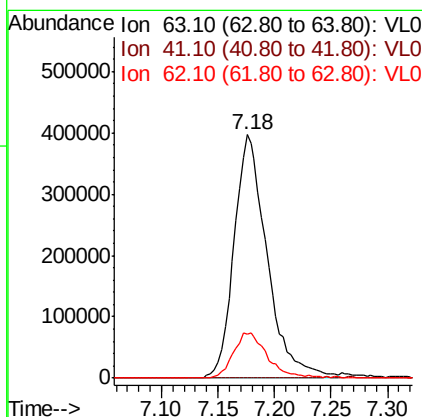
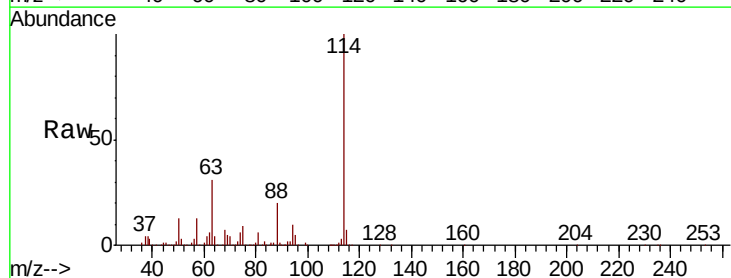
#34
 2-Butanone
 Concen: 0.035 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 BFB
 Acq: 14 Jun 2022 1:20

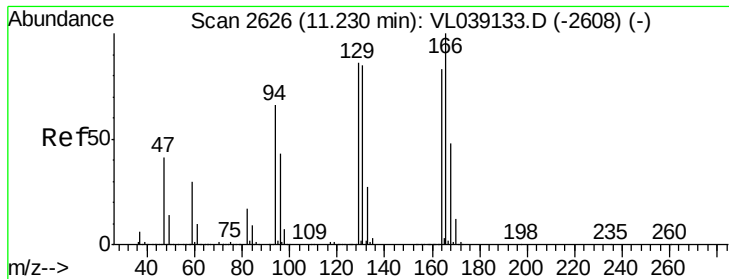
Tot Ion: 43 Resp: 5219
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.2 27.2#



#39
 1,2-Dichloropropane
 Concen: 9.160 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.44 min
 Lab File: VL039267.D
 Acq: 14 Jun 2022 1:20

Tgt Ion: 63 Resp: 808445
 Ion Ratio Lower Upper
 63 100
 41 0.1 60.8 91.2#
 62 18.1 52.9 79.3#





#52

Tetrachloroethene

Concen: 0.089 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Jun 2022 1:20

Tot Ion:164 Resp: 7684

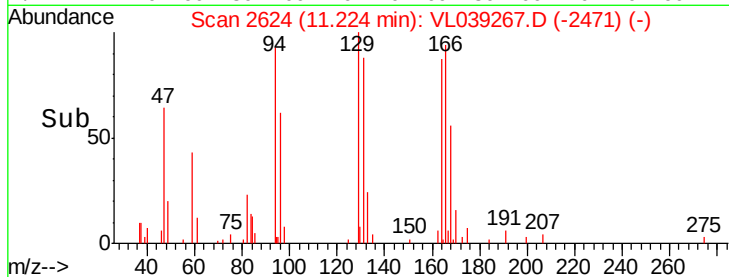
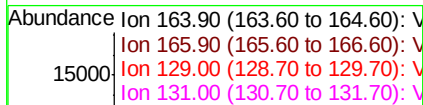
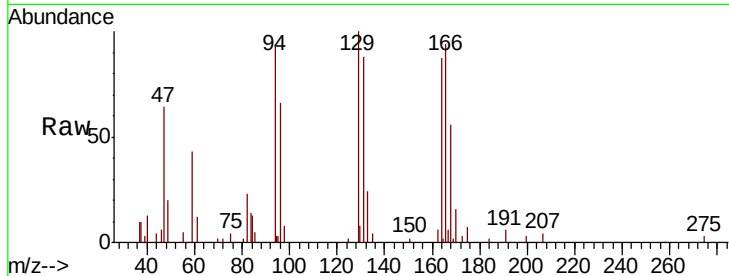
Ion Ratio Lower Upper

164 100

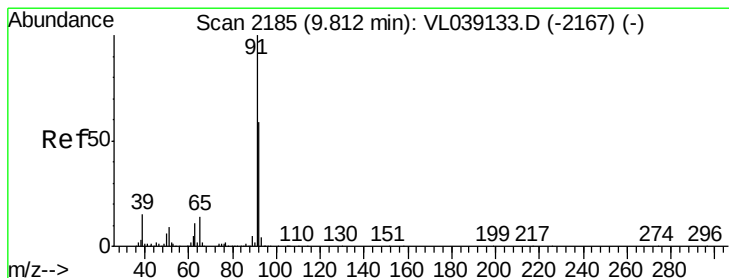
166 82.7 96.3 144.5#

129 65.3 82.5 123.7#

131 27.6 82.1 123.1#



Time-->



#53

Toluene

Concen: 0.078 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL039267.D

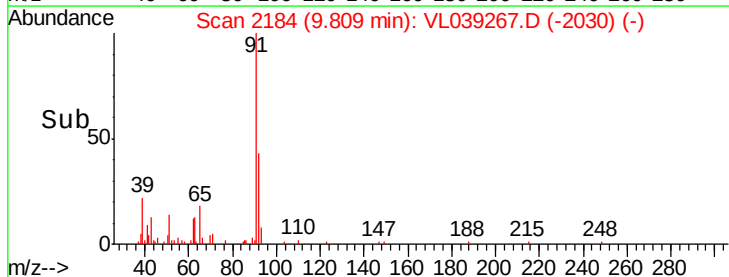
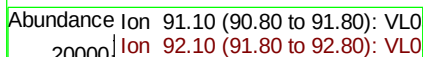
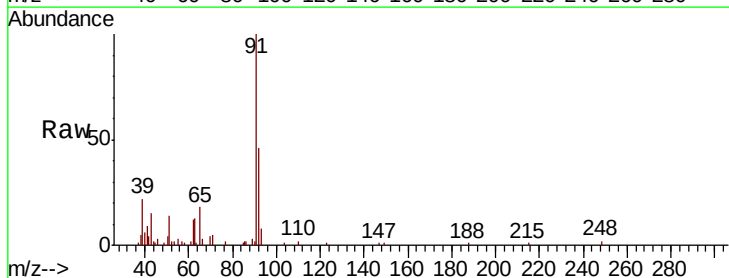
Acq: 14 Jun 2022 1:20

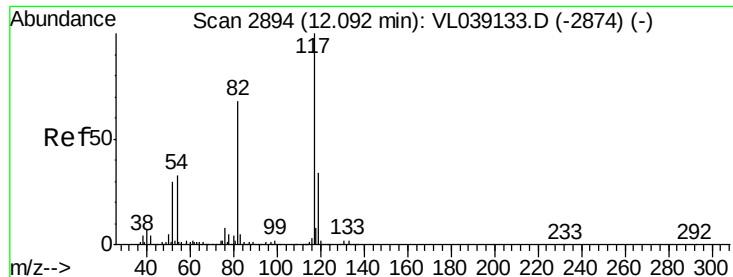
Tgt Ion: 91 Resp: 19906

Ion Ratio Lower Upper

91 100

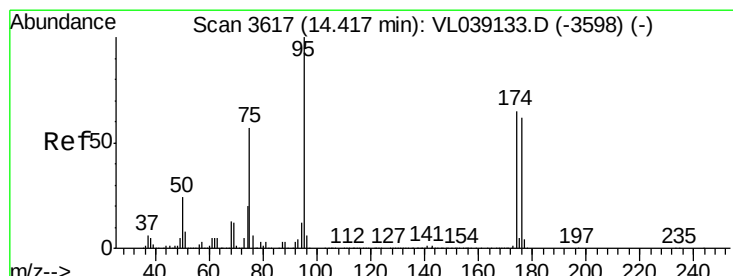
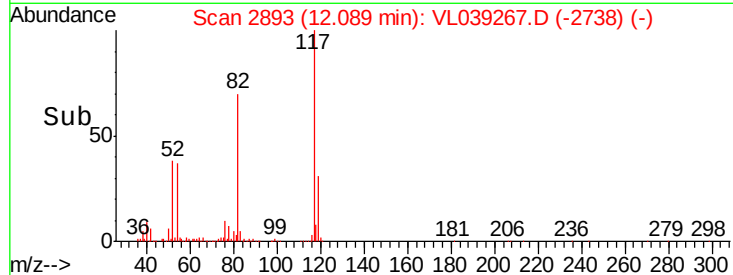
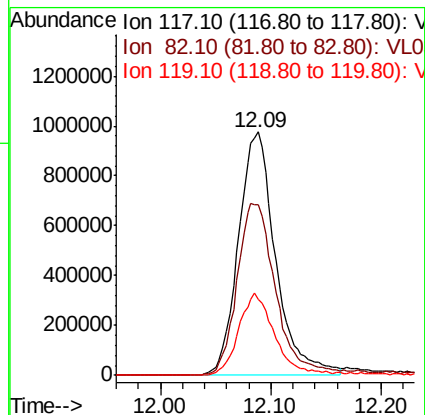
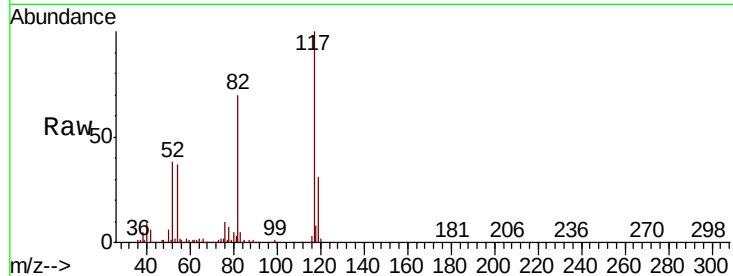
92 0.0 48.1 72.1#





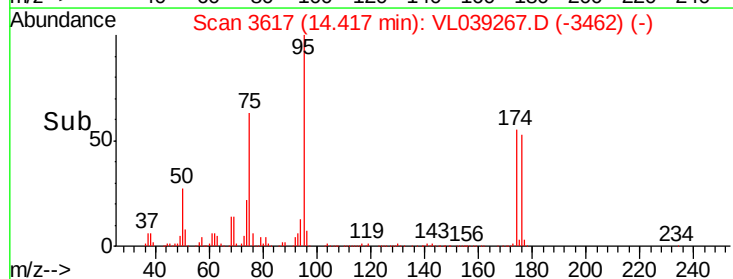
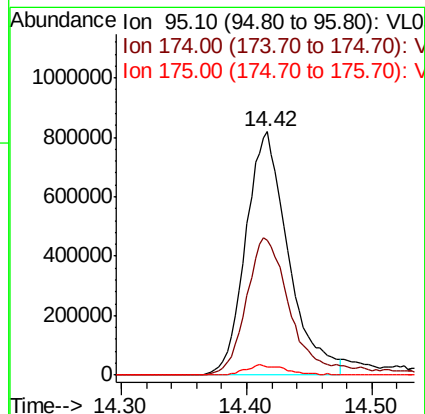
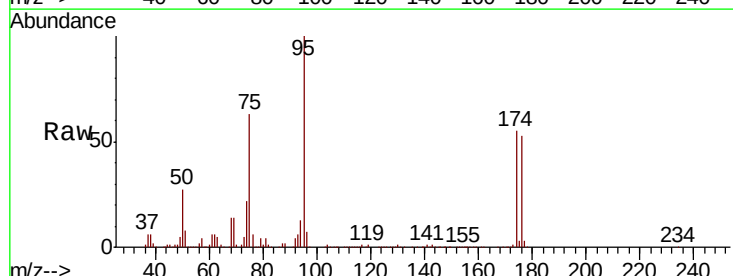
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 BFB
 Acq: 14 Jun 2022 1:20

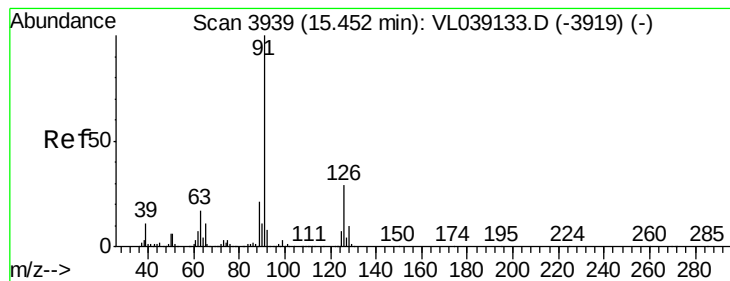
Tot Ion:117 Resp: 2285847
 Ion Ratio Lower Upper
 117 100
 82 75.7 55.1 82.7
 119 33.1 24.7 37.1



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.226 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T.: -0.00 min
 Lab File: VL039267.D
 Acq: 14 Jun 2022 1:20

Tgt Ion: 95 Resp: 1932508
 Ion Ratio Lower Upper
 95 100
 174 62.4 53.8 80.8
 175 4.3 4.1 6.1





#71
 2-Chlorotoluene
 Concen: 0.093 ppbv
 RT: 15.33
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 BFB
 Acq: 14 Jun 2022 1:20

Tot Ion: 91 Resp: 27497
 Ion Ratio Lower Upper
 91 100
 126 0.7 12.2 48.6#

