

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062722\
 Data File : VL039385.D
 Acq On : 28 Jun 2022 9:13
 Operator : SY/AP
 Sample : N3508-03DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-9-20220624DL

Quant Time: Jun 29 06:03:20 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	5.65	49	1042561	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2886792	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	2529987	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1833573	8.77	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	87.70%

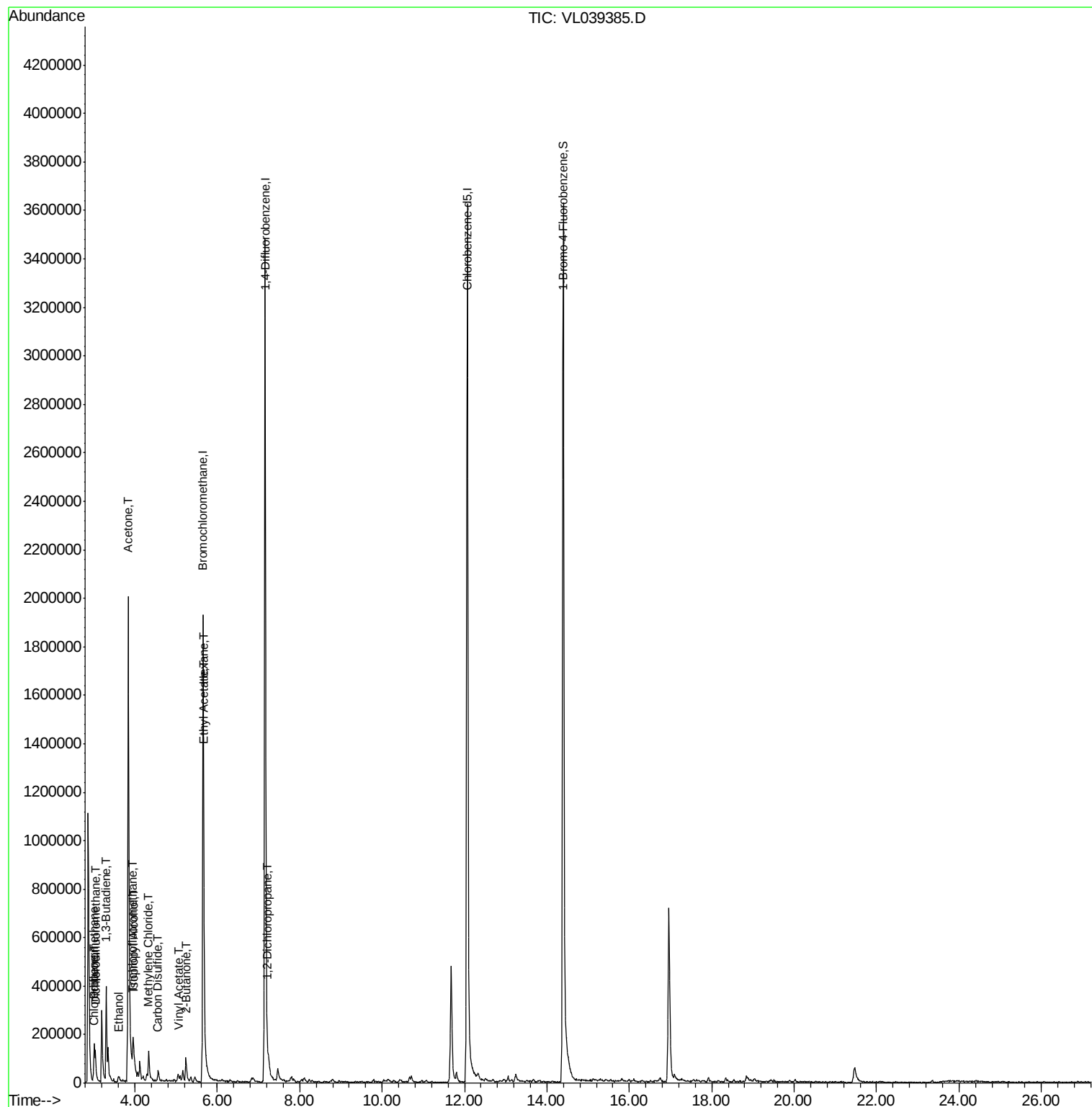
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	93251	0.509	ppbv	94
3) Chlorodifluoromethane	2.98	51	15731	0.119	ppbv	94
9) Propene	3.01	41	57813	0.999	ppbv	97
11) Trichlorofluoromethane	3.94	101	36350	0.219	ppbv #	75
13) Ethanol	3.60	45	16130	5.113	ppbv #	100
15) Acetone	3.83	43	2714011	24.990	ppbv	99
16) 1,3-Butadiene	3.30	39	120172	2.058	ppbv #	18
19) Isopropyl Alcohol	3.96	45	157208	3.086	ppbv #	93
20) Methylene Chloride	4.33	84	44734	0.977	ppbv	95
23) Vinyl Acetate	5.06	43	3954	0.044	ppbv #	91
25) Ethyl Acetate	5.68	43	19040	0.078	ppbv #	92
26) Hexane	5.67	57	18173	0.169	ppbv #	1
27) Carbon Disulfide	4.54	76	4604	0.041	ppbv #	63
34) 2-Butanone	5.24	43	112229	0.716	ppbv #	90
39) 1,2-Dichloropropane	7.21	63	7828	0.084	ppbv #	17

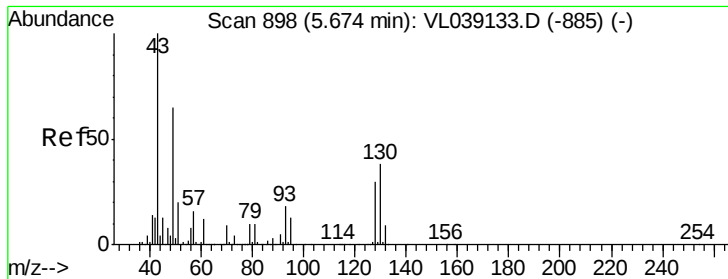
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV-9-20220624DL

Acq: 28 Jun 2022 9:13

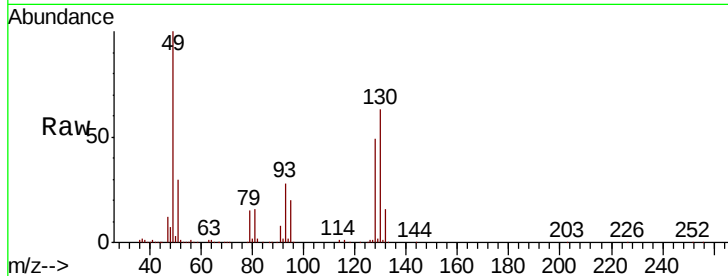
Tot Ion: 49 Resp: 1042561

Ion Ratio Lower Upper

49 100

128 53.3 24.7 74.1

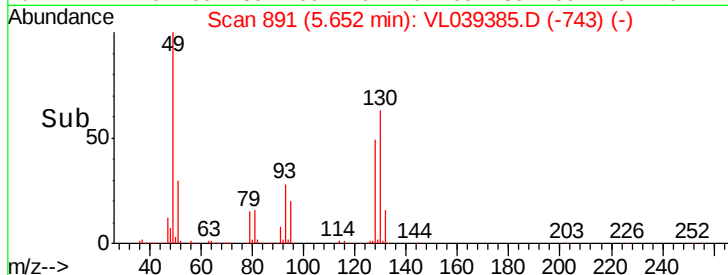
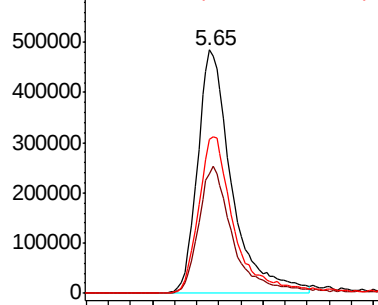
130 68.6 31.4 94.0



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: 0.509 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.02 min

Lab File: VL039385.D

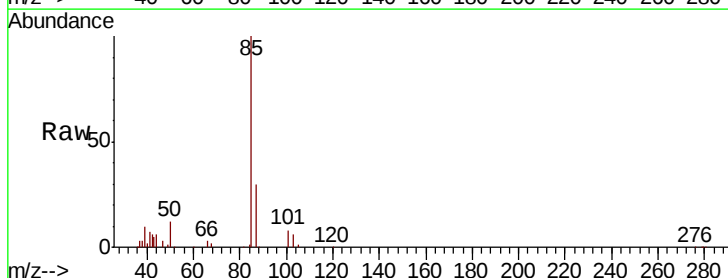
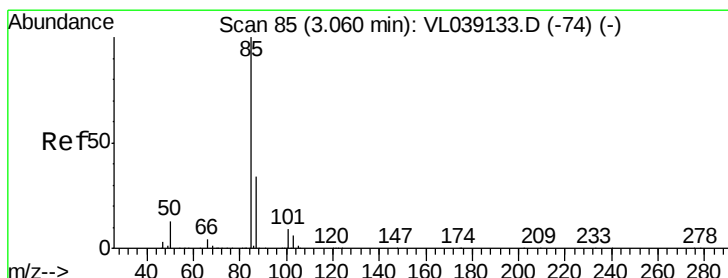
Acq: 28 Jun 2022 9:13

Tgt Ion: 85 Resp: 93251

Ion Ratio Lower Upper

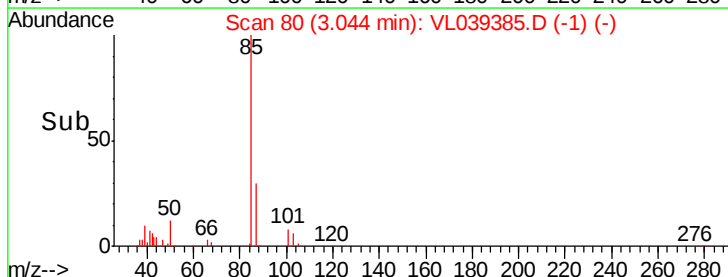
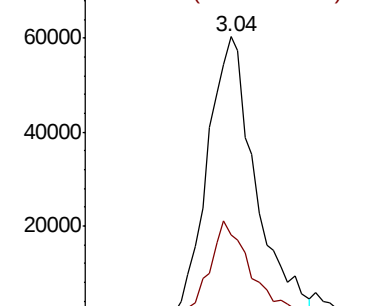
85 100

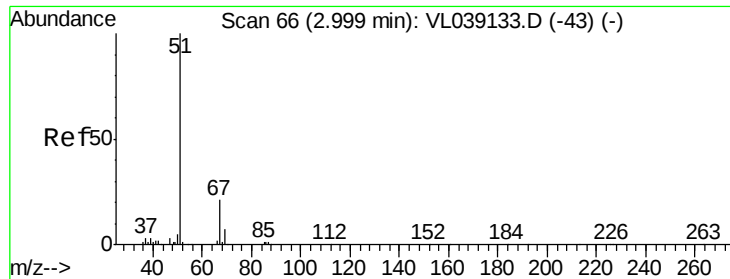
87 30.0 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.119 ppbv

RT: 2.98 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId:

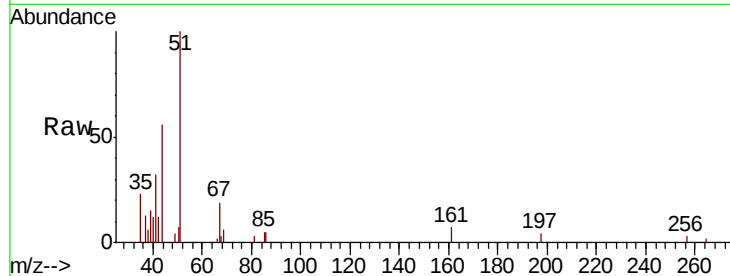
Acq: 28 Jun 2022 9:13

Tot Ion: 51 Resp: 15731

Ion Ratio Lower Upper

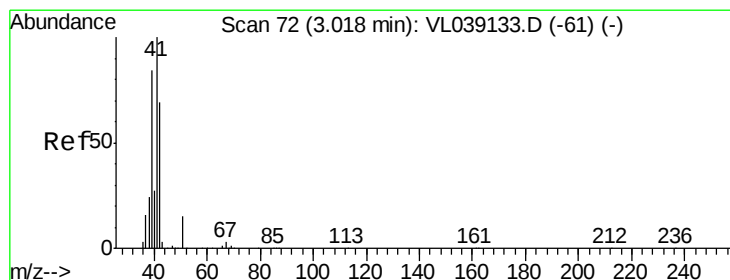
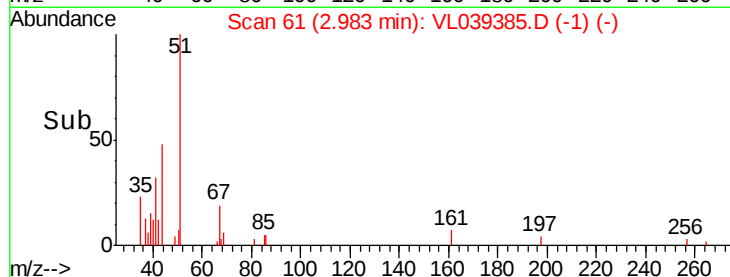
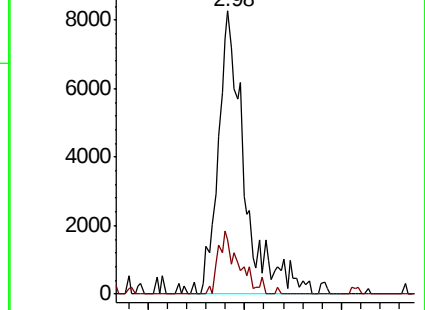
51 100

67 17.3 16.2 24.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.999 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL039385.D

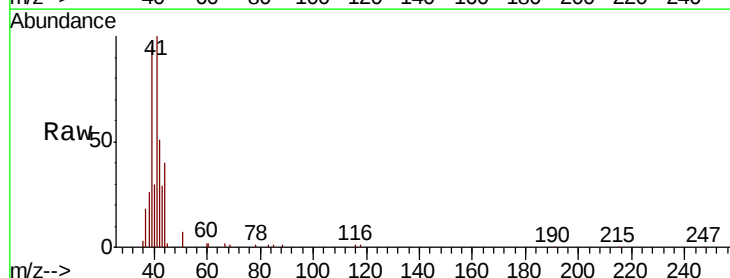
Acq: 28 Jun 2022 9:13

Tgt Ion: 41 Resp: 57813

Ion Ratio Lower Upper

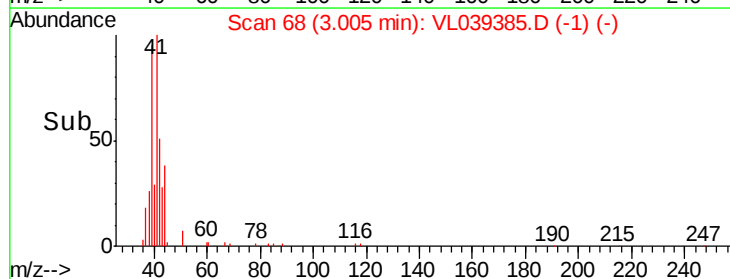
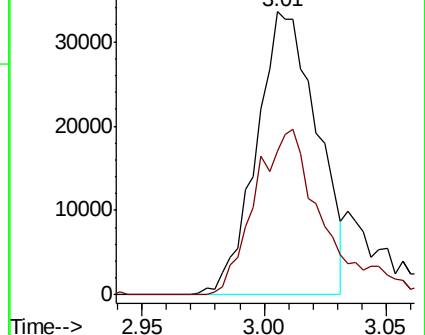
41 100

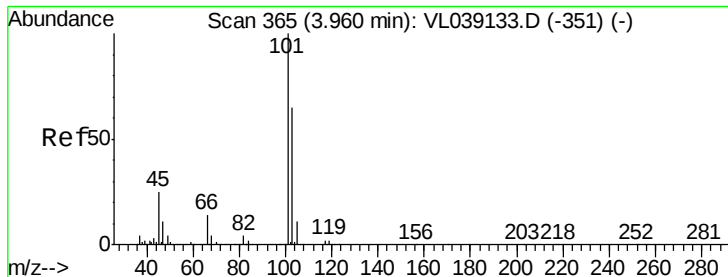
42 67.1 55.4 83.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

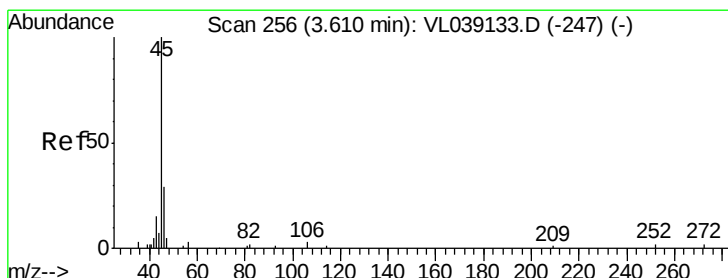
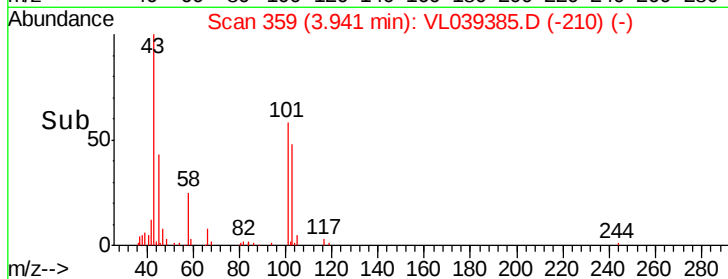
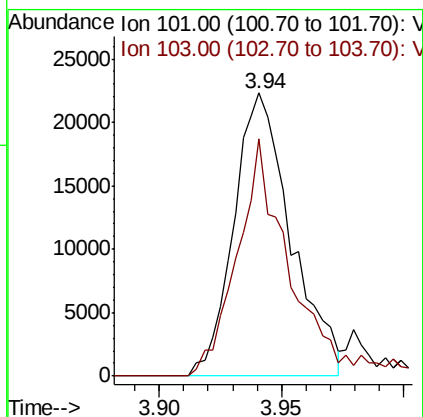
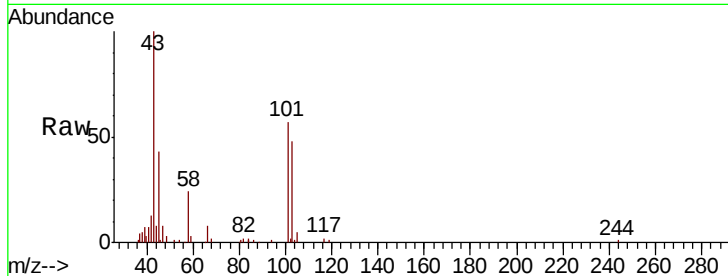
Ion 42.10 (41.80 to 42.80): VL0





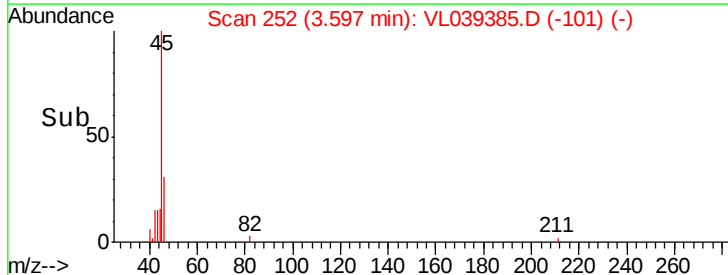
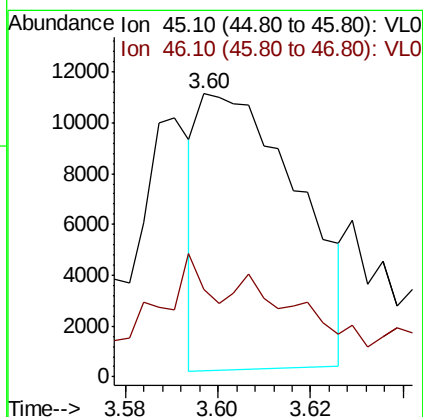
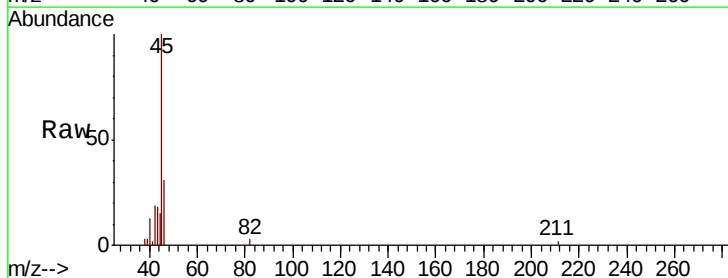
#11
 Trichlorofluoromethane
 Concen: 0.219 ppbv
 RT: 3.94
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-9-20220624DL
 Acq: 28 Jun 2022 9:13

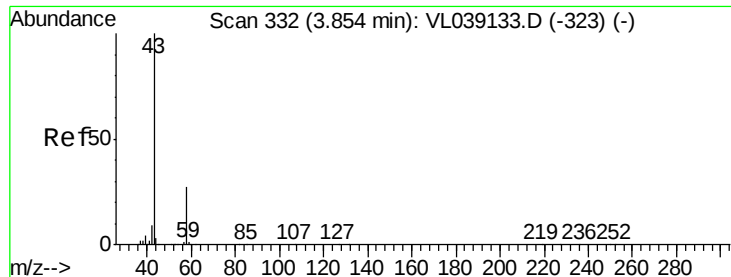
Tot Ion: 101 Resp: 36350
 Ion Ratio Lower Upper
 101 100
 103 84.0 51.7 77.5#



#13
 Ethanol
 Concen: 5.113 ppbv
 RT: 3.60 min Scan# 252
 Delta R.T. -0.01 min
 Lab File: VL039385.D
 Acq: 28 Jun 2022 9:13

Tgt Ion: 45 Resp: 16130
 Ion Ratio Lower Upper
 45 100
 46 81.6 0.0 0.0#





#15

Acetone

Concen: 24.990 ppbv

RT: 3.83

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

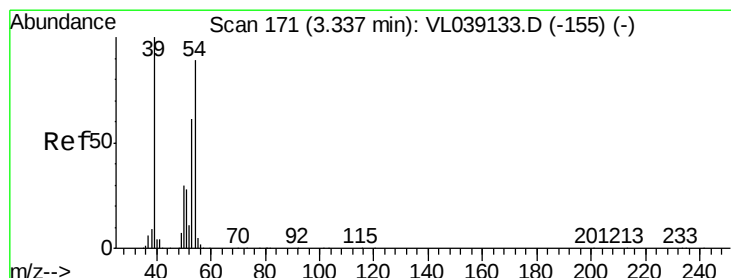
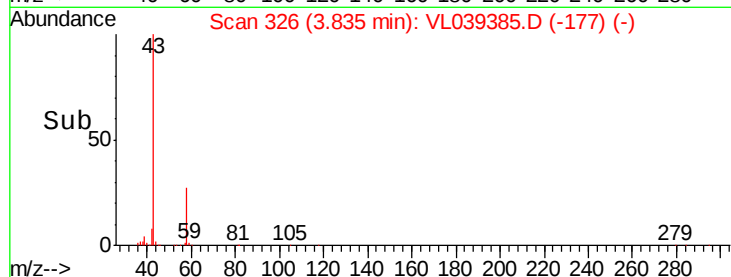
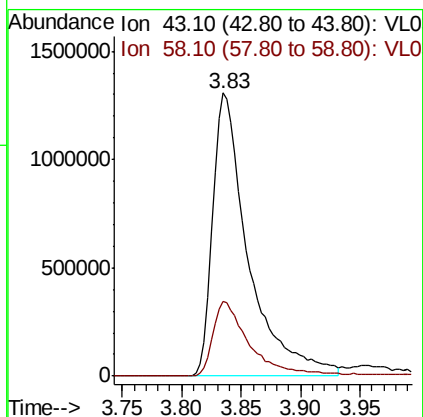
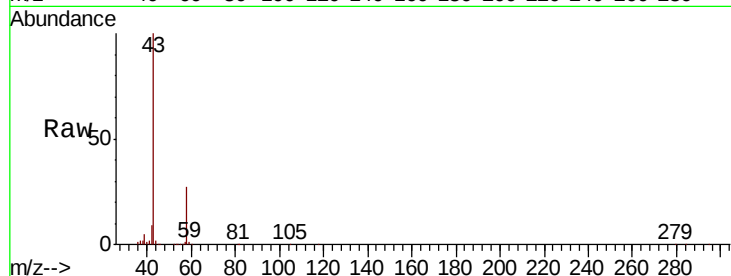
Acq: 28 Jun 2022 9:13

Tot Ion: 43 Resp: 2714011

Ion Ratio Lower Upper

43 100

58 28.8 22.5 33.7



#16

1,3-Butadiene

Concen: 2.058 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.03 min

Lab File: VL039385.D

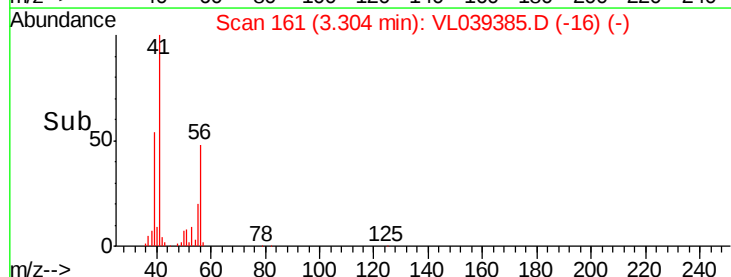
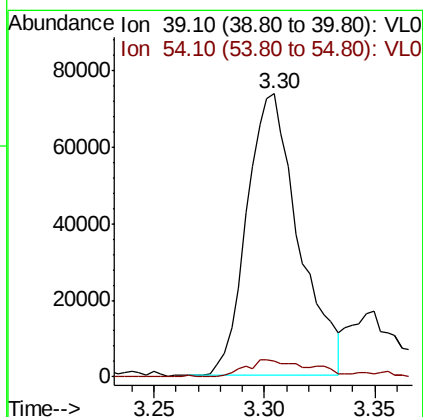
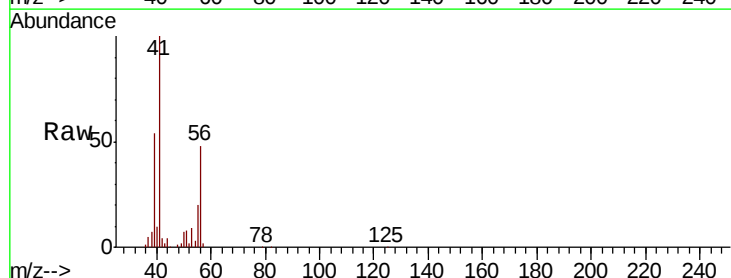
Acq: 28 Jun 2022 9:13

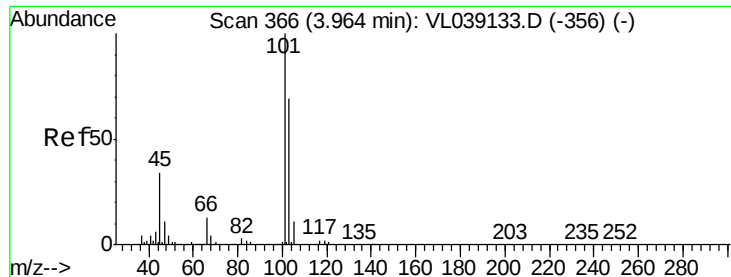
Tgt Ion: 39 Resp: 120172

Ion Ratio Lower Upper

39 100

54 8.8 65.8 98.6#





#19

Isopropyl Alcohol

Concen: 3.086 ppbv

RT: 3.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

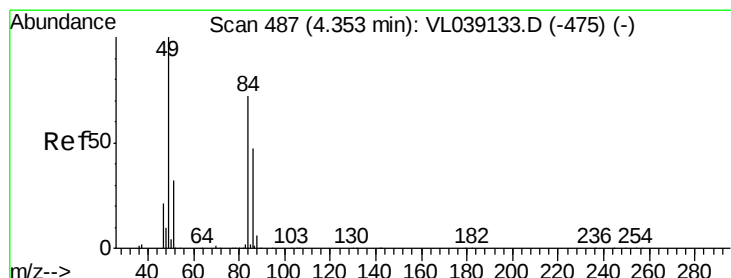
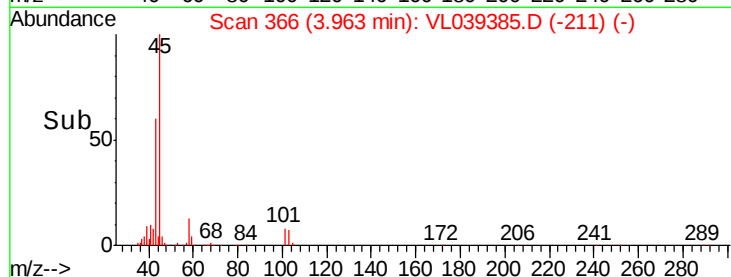
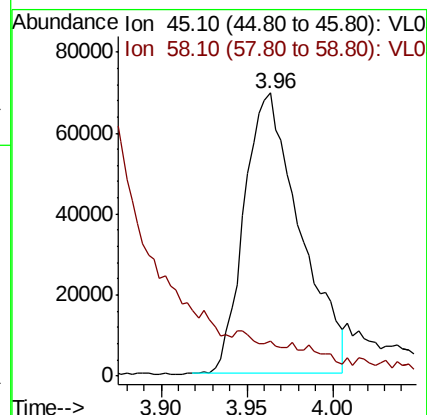
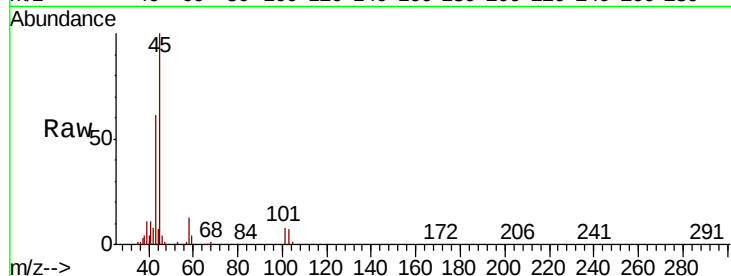
Acq: 28 Jun 2022 9:13

Tot Ion: 45 Resp: 157208

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 0.977 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.02 min

Lab File: VL039385.D

Acq: 28 Jun 2022 9:13

Tgt Ion: 84 Resp: 44734

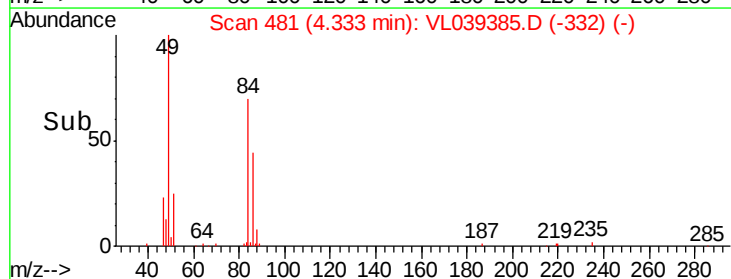
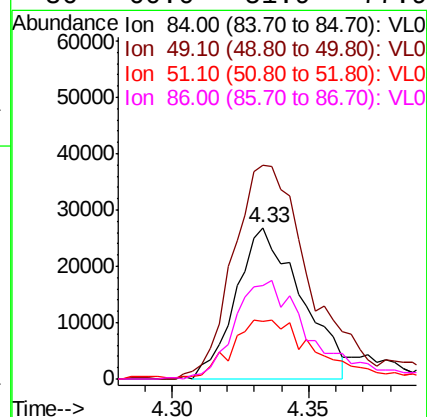
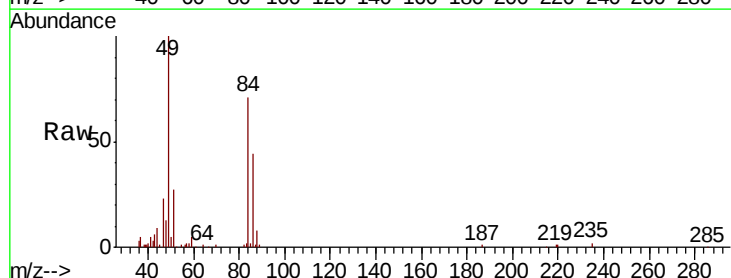
Ion Ratio Lower Upper

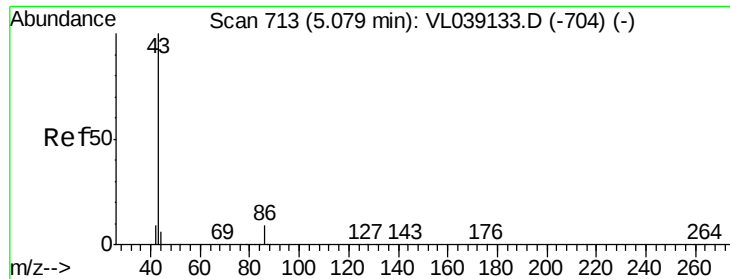
84 100

49 136.5 111.1 166.7

51 36.1 35.3 52.9

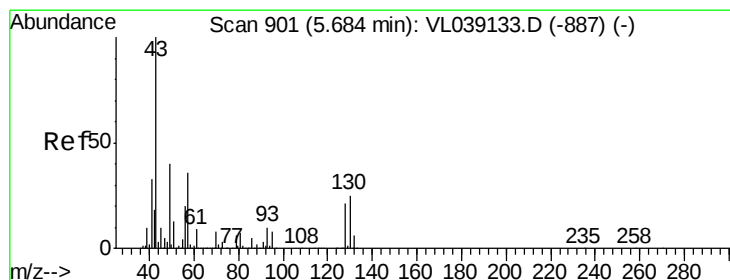
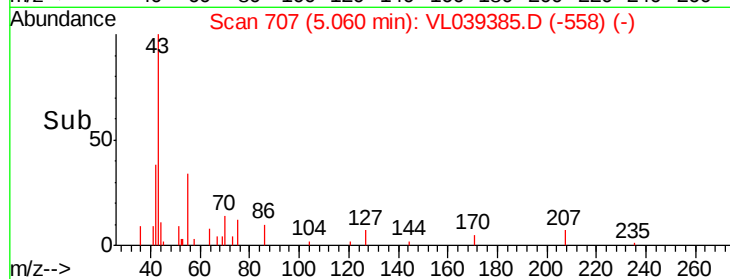
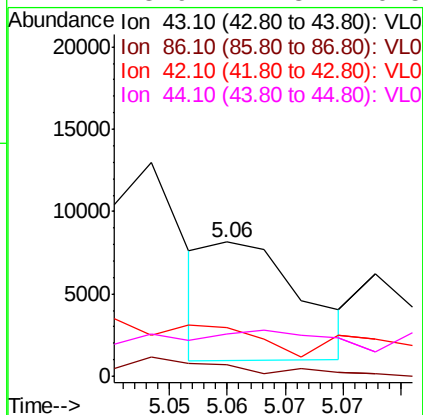
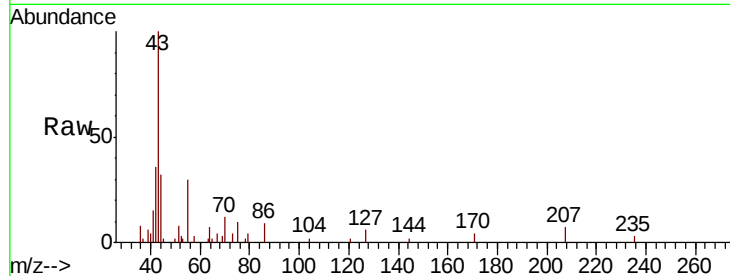
86 60.0 51.9 77.9





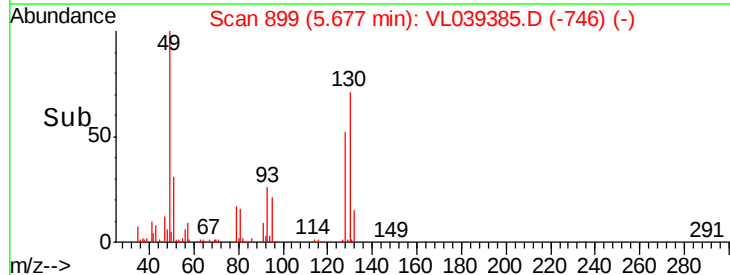
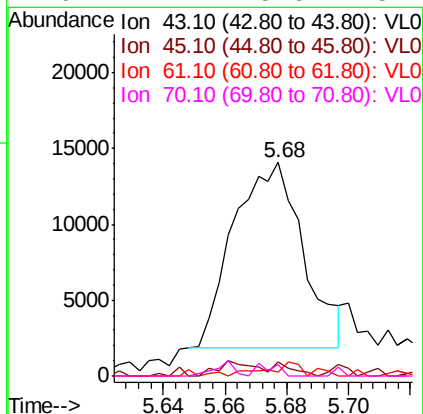
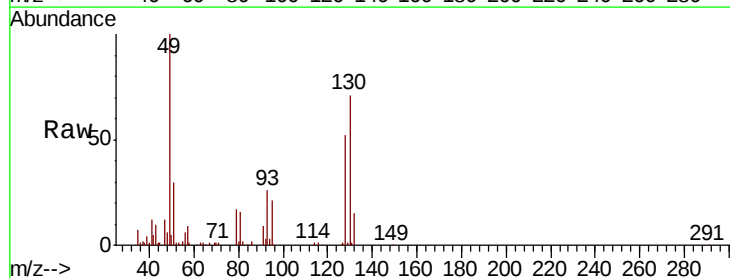
#23
 Vinyl Acetate
 Concen: 0.044 ppbv
 RT: 5.06
 Instrument: MSVOA_1
 Delta R.T.
 Lab File: ClientSampleId:
 SV-9-20220624DL
 Acq: 28 Jun 2022 9:13

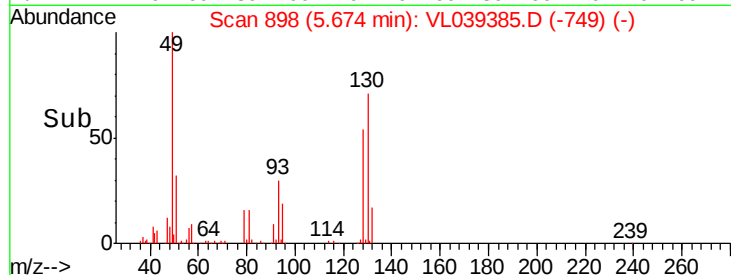
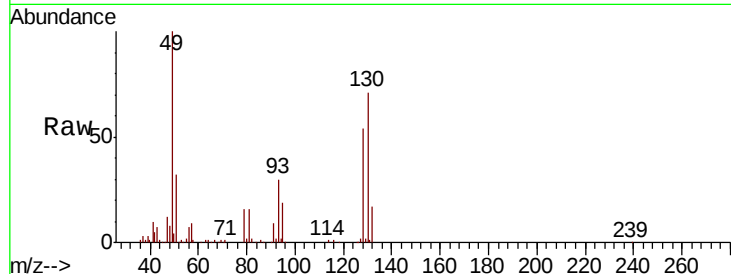
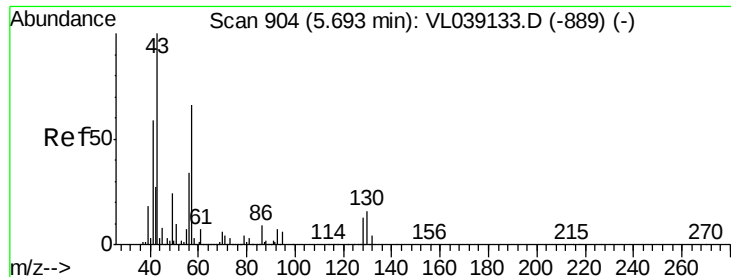
Tot Ion:	43	Resp:	3954
Ion	Ratio	Lower	Upper
43	100		
86	11.9	6.0	9.0#
42	12.1	8.2	12.4
44	8.9	4.3	6.5#



#25
 Ethyl Acetate
 Concen: 0.078 ppbv
 RT: 5.68 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VL039385.D
 Acq: 28 Jun 2022 9:13

Tgt Ion:	43	Resp:	19040
Ion	Ratio	Lower	Upper
43	100		
45	8.5	8.2	12.2
61	6.3	8.4	12.6#
70	4.2	5.6	8.4#





#26

Hexane

Concen: 0.169 ppbv

RT: 5.67 Instrument:

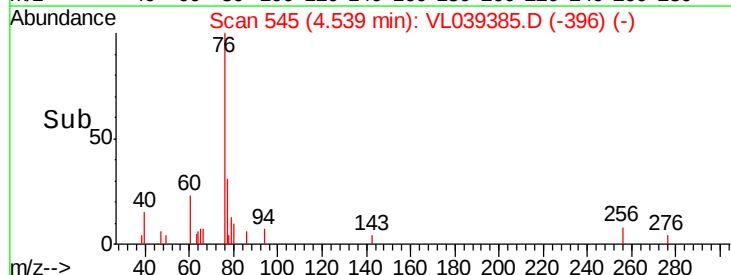
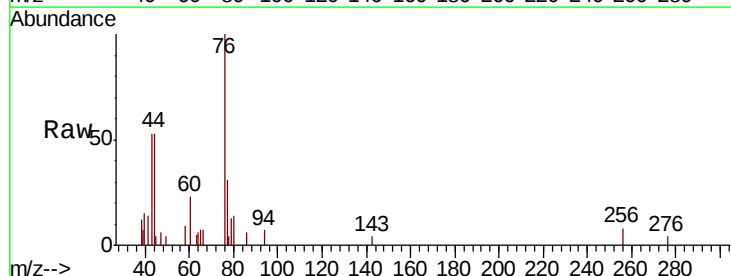
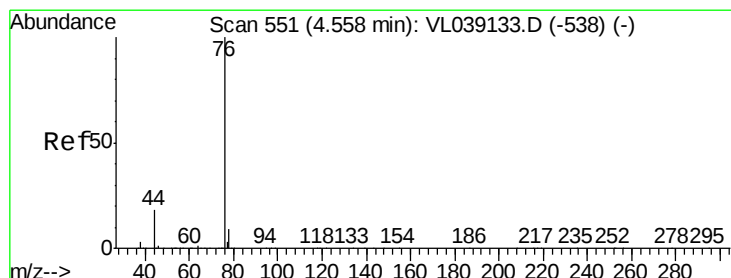
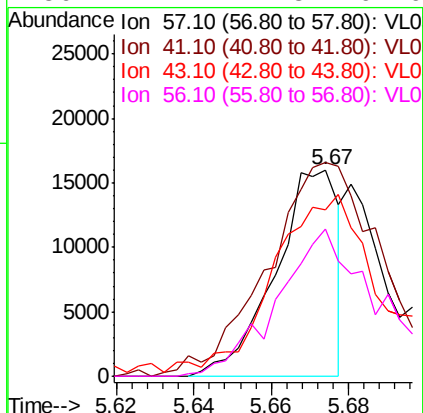
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Jun 2022 9:13 SV-9-20220624DL

Tot Ion: 57 Resp: 18173

Ion	Ratio	Lower	Upper
57	100		
41	219.6	72.4	108.6#
43	0.0	187.0	280.6#
56	122.1	41.8	62.6#



#27

Carbon Disulfide

Concen: 0.041 ppbv

RT: 4.54 min Scan# 545

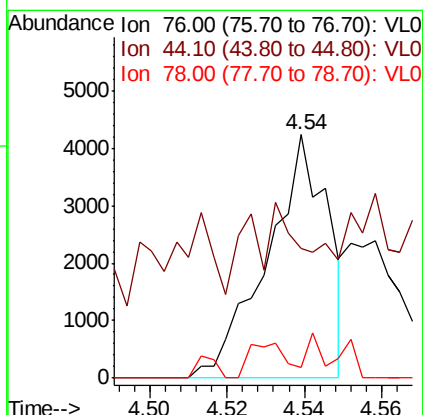
Delta R.T. -0.02 min

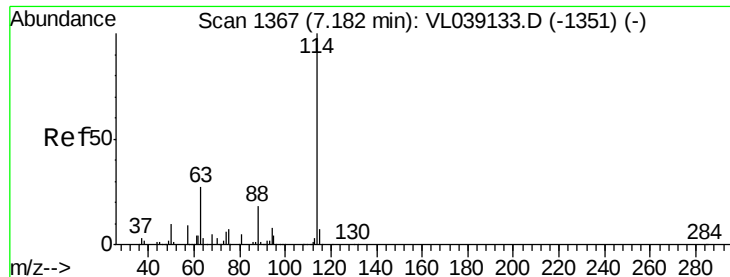
Lab File: VL039385.D

Acq: 28 Jun 2022 9:13

Tgt Ion: 76 Resp: 4604

Ion	Ratio	Lower	Upper
76	100		
44	0.0	14.4	21.6#
78	20.5	7.7	11.5#

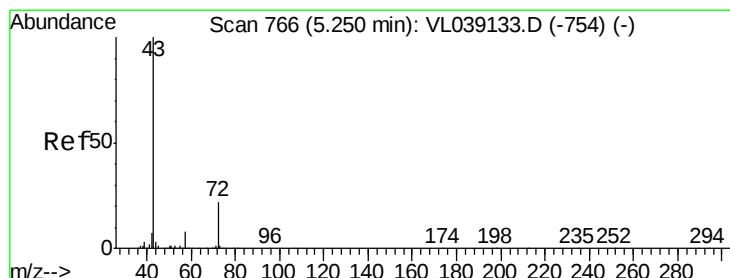
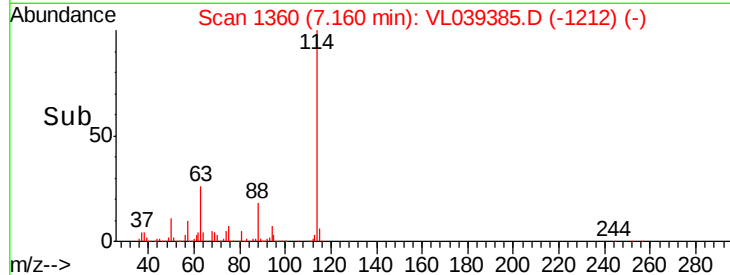
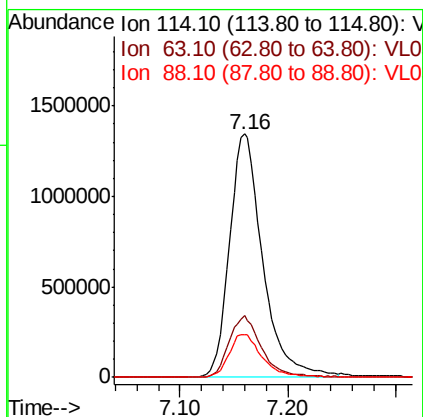
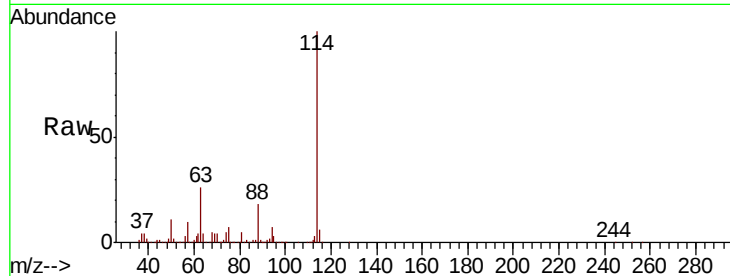




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-9-20220624DL
 Acq: 28 Jun 2022 9:13

Tot Ion:114 Resp: 2886792

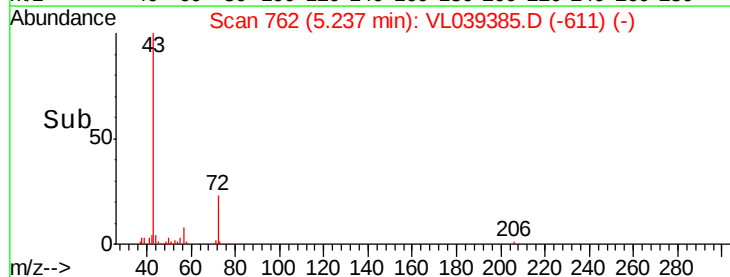
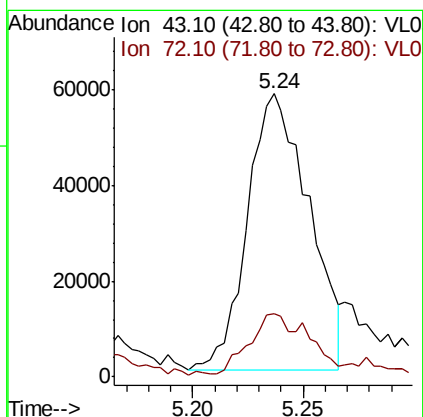
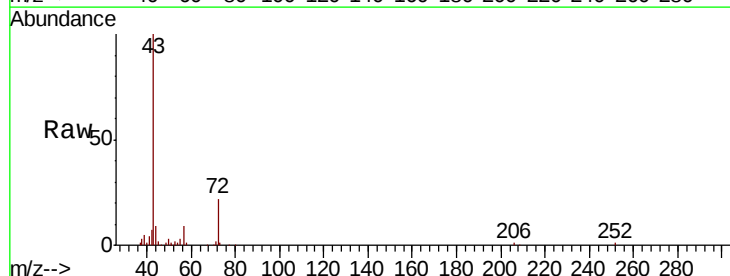
Ion	Ratio	Lower	Upper
114	100		
63	25.1	21.7	32.5
88	18.1	14.8	22.2

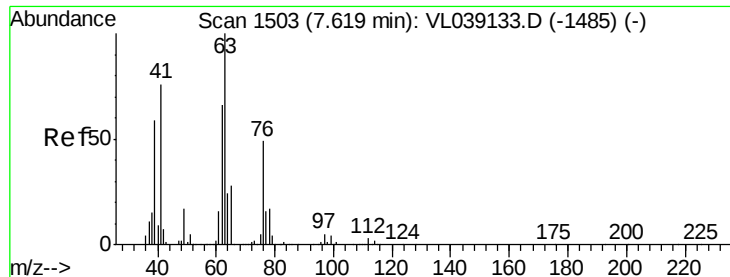


#34
 2-Butanone
 Concen: 0.716 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.01 min
 Lab File: VL039385.D
 Acq: 28 Jun 2022 9:13

Tgt Ion: 43 Resp: 112229

Ion	Ratio	Lower	Upper
43	100		
72	27.5	18.2	27.2#





#39

1,2-Dichloropropane

Concen: 0.084 ppbv

RT: 7.21 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Jun 2022 9:13 SV-9-20220624DL

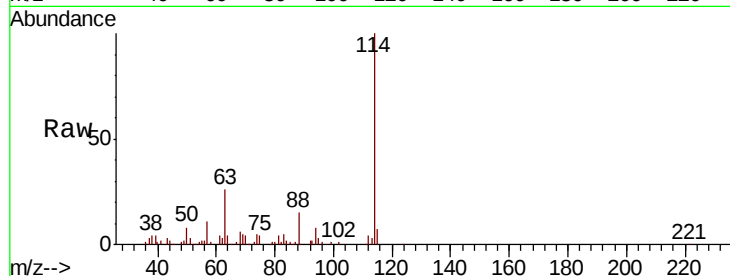
Tot Ion: 63 Resp: 7828

Ion Ratio Lower Upper

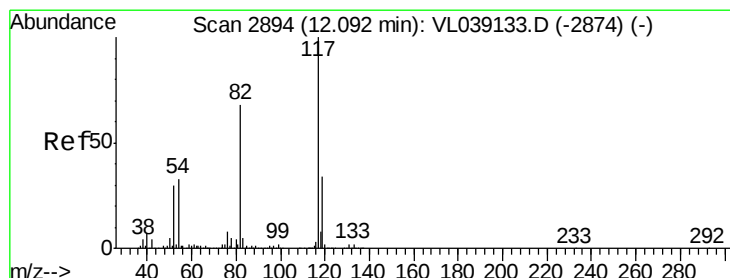
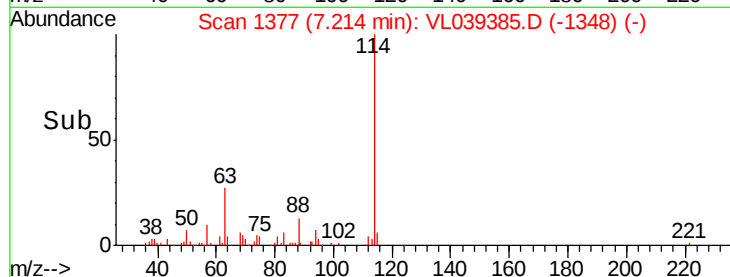
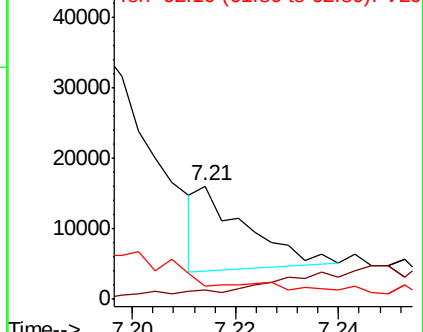
63 100

41 0.4 60.8 91.2#

62 4.0 52.9 79.3#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.03 min

Lab File: VL039385.D

Acq: 28 Jun 2022 9:13

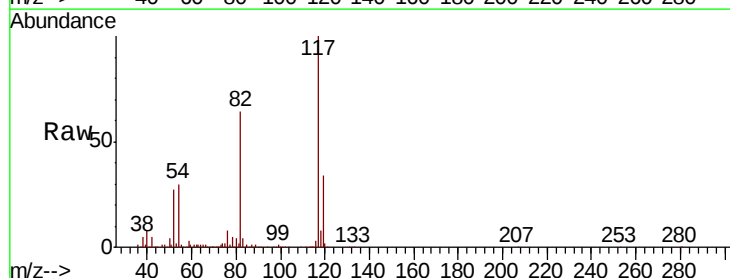
Tgt Ion: 117 Resp: 2529987

Ion Ratio Lower Upper

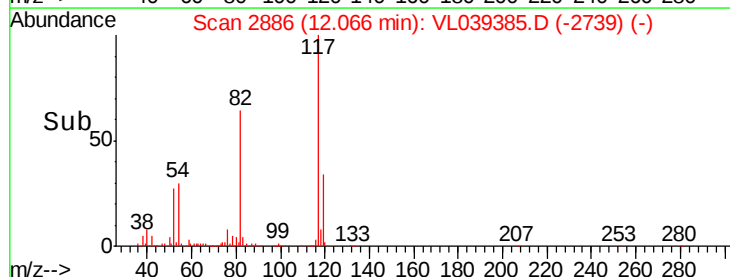
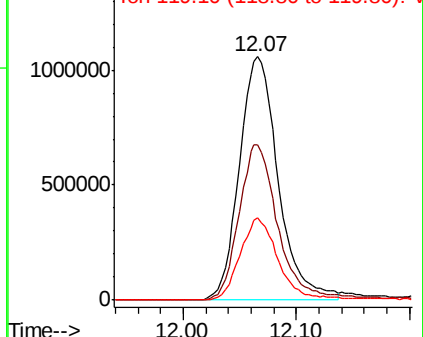
117 100

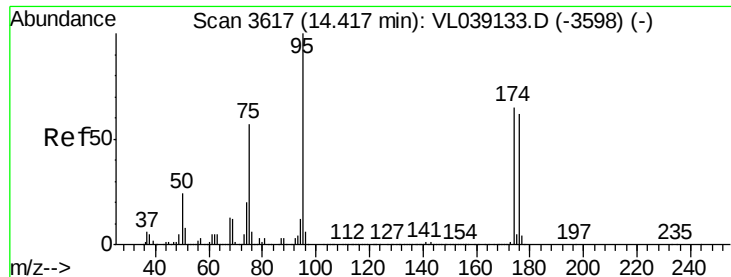
82 65.8 55.1 82.7

119 34.0 24.7 37.1



Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 8.766 ppbv

RT: 14.39 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

SV-9-20220624DL

Acq: 28 Jun 2022 9:15

Tot Ion: 95 Resp: 1833573

Ion Ratio Lower Upper

95 100

174 72.1 53.8 80.8

175 5.2 4.1 6.1

