

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060322\
 Data File : VL039160.D
 Acq On : 3 Jun 2022 19:52
 Operator : SY/AP
 Sample : N3106-09DL 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

Quant Time: Jun 04 00:17:05 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed 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	5.68	49	1299142	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3288235	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2847331	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2187747	9.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.90%

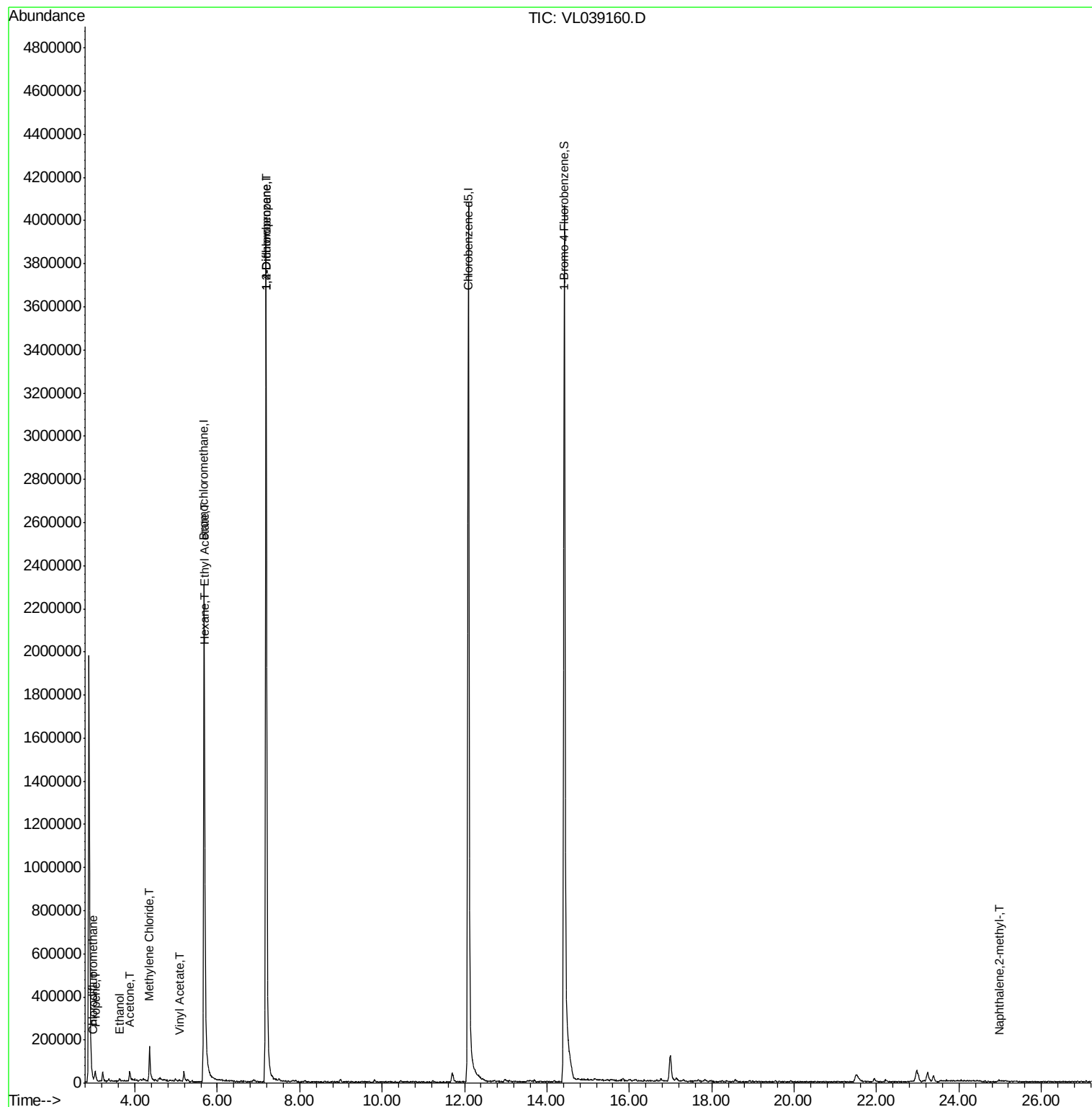
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	5304	0.032	ppbv	95
9) Propene	3.04	41	10863	0.151	ppbv	96
13) Ethanol	3.63	45	1739	0.442	ppbv #	100
15) Acetone	3.87	43	52226	0.386	ppbv #	88
20) Methylene Chloride	4.35	84	59102	1.036	ppbv	93
23) Vinyl Acetate	5.08	43	3757	0.034	ppbv #	80
25) Ethyl Acetate	5.69	43	18980	0.062	ppbv #	76
26) Hexane	5.70	57	54625	0.408	ppbv #	40
39) 1,2-Dichloropropane	7.18	63	852423	8.028	ppbv #	25
80) Naphthalene,2-methyl-	24.99	142	5728	0.052	ppbv	97

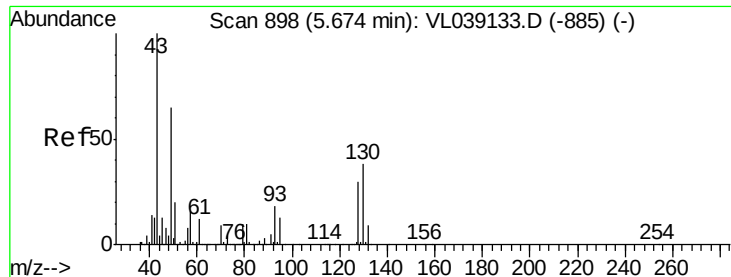
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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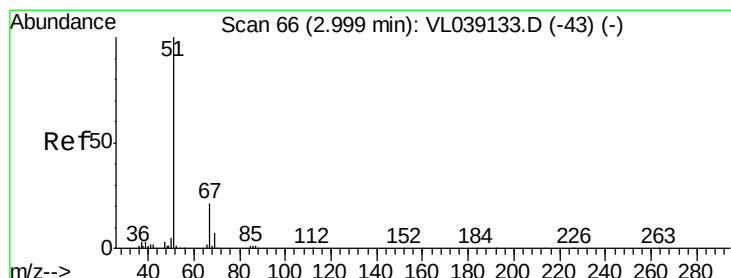
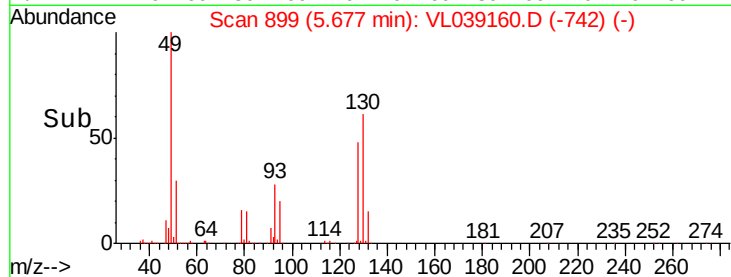
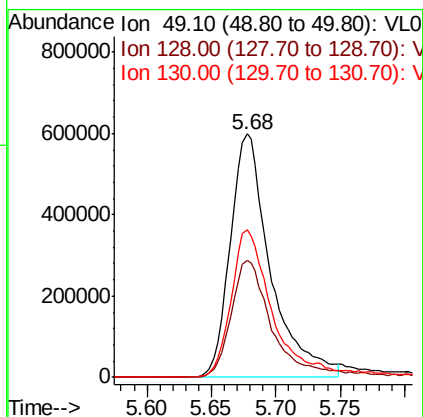
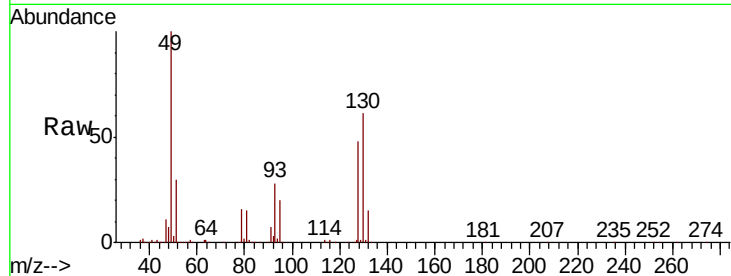
Quant Time: Jun 04 00:17:05 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
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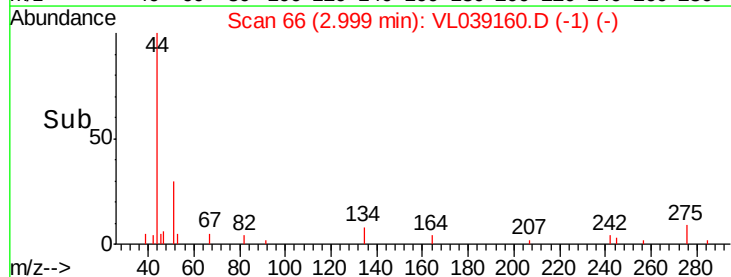
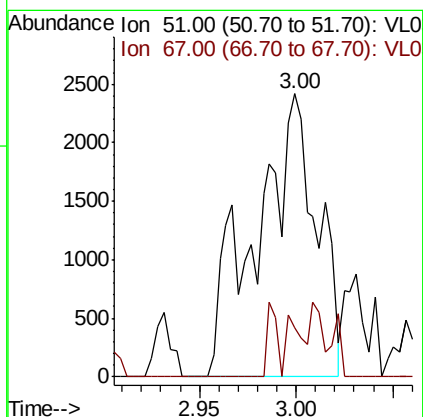
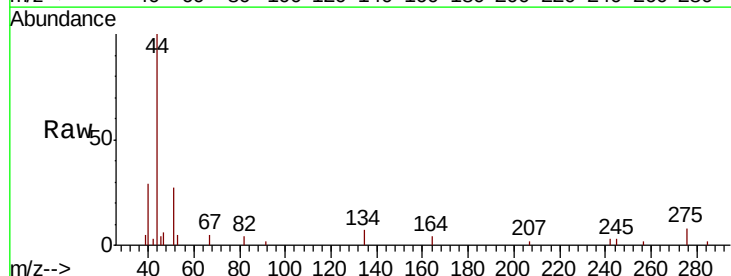
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 3 Jun 2022 19:52

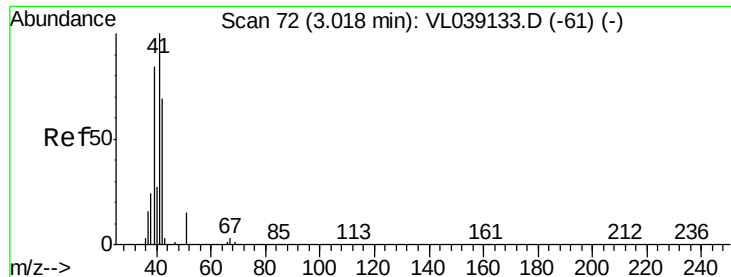
Tot Ion: 49 Resp: 1299142
 Ion Ratio Lower Upper
 49 100
 128 51.0 24.7 74.1
 130 65.7 31.4 94.0



#3
 Chlorodifluoromethane
 Concen: 0.032 ppbv
 RT: 3.00 min Scan# 66
 Delta R.T.: 0.00 min
 Lab File: VL039160.D
 Acq: 3 Jun 2022 19:52

Tgt Ion: 51 Resp: 5304
 Ion Ratio Lower Upper
 51 100
 67 18.0 16.2 24.4





#9

Propene

Concen: 0.151 ppbv

RT: 3.04 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

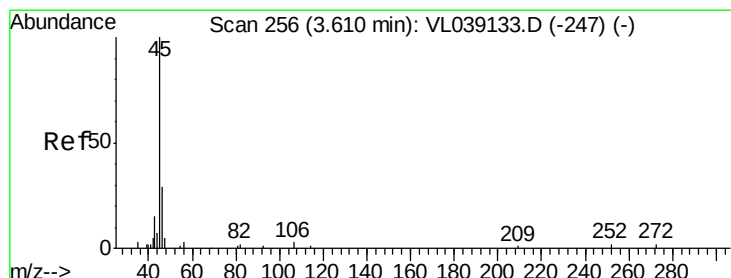
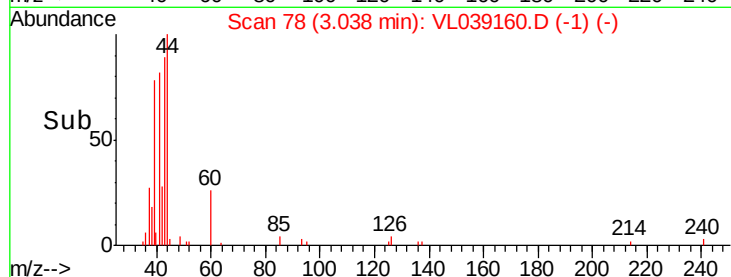
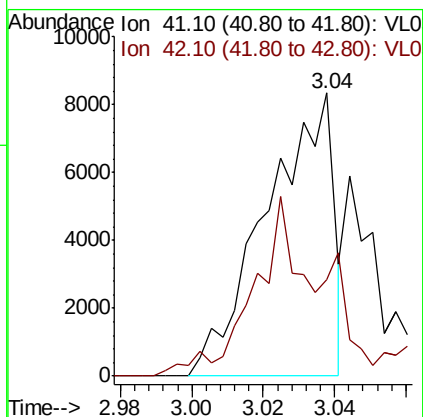
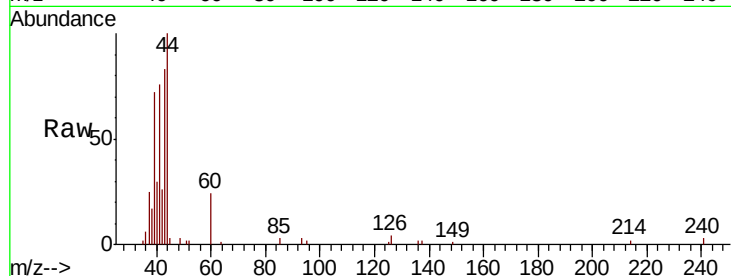
Acq: 3 Jun 2022 19:52

Tot Ion: 41 Resp: 10863

Ion Ratio Lower Upper

41 100

42 72.7 55.4 83.2



#13

Ethanol

Concen: 0.442 ppbv

RT: 3.63 min Scan# 262

Delta R.T. 0.02 min

Lab File: VL039160.D

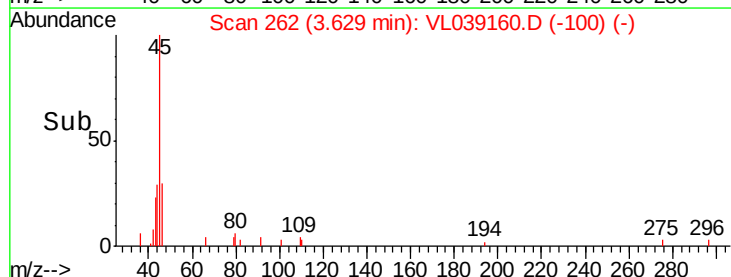
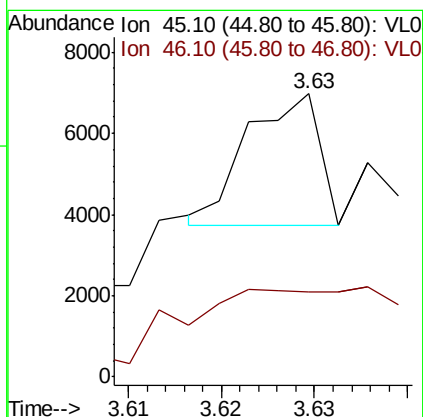
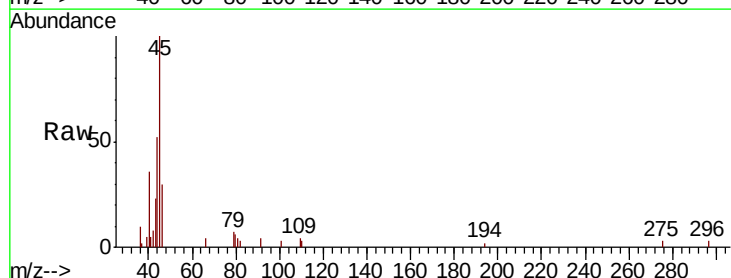
Acq: 3 Jun 2022 19:52

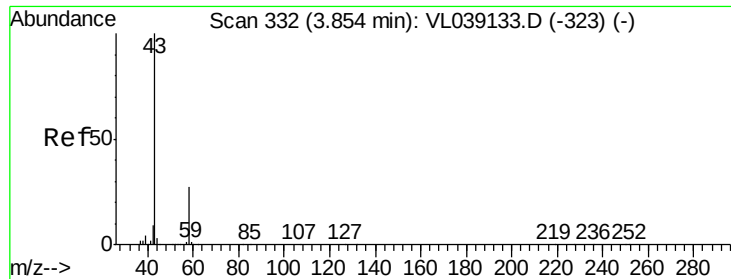
Tgt Ion: 45 Resp: 1739

Ion Ratio Lower Upper

45 100

46 0.0 0.0 0.0





#15

Acetone

Concen: 0.386 ppbv

RT: 3.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

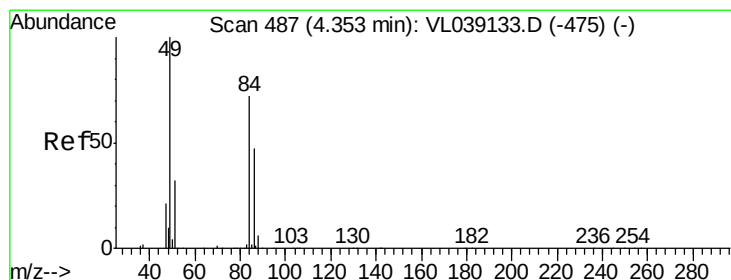
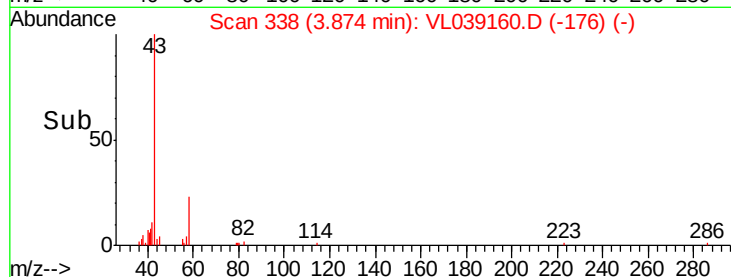
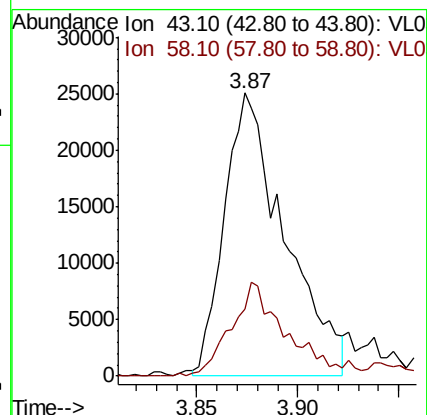
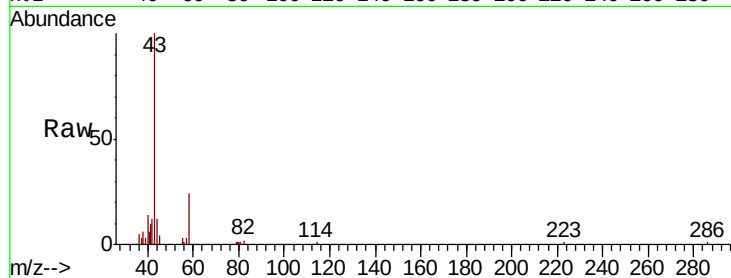
Acq: 3 Jun 2022 19:52

Tot Ion: 43 Resp: 52226

Ion Ratio Lower Upper

43 100

58 34.7 22.5 33.7#



#20

Methylene Chloride

Concen: 1.036 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.00 min

Lab File: VL039160.D

Acq: 3 Jun 2022 19:52

Tgt Ion: 84 Resp: 59102

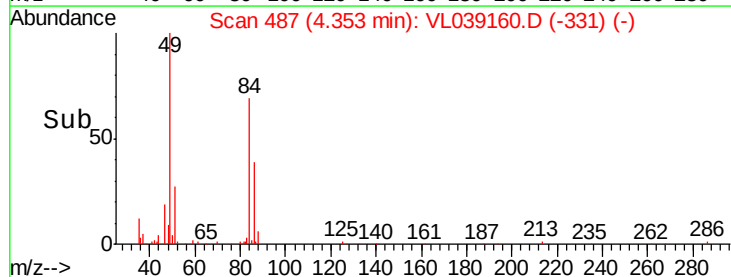
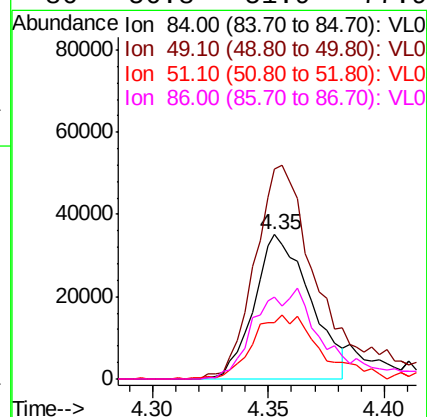
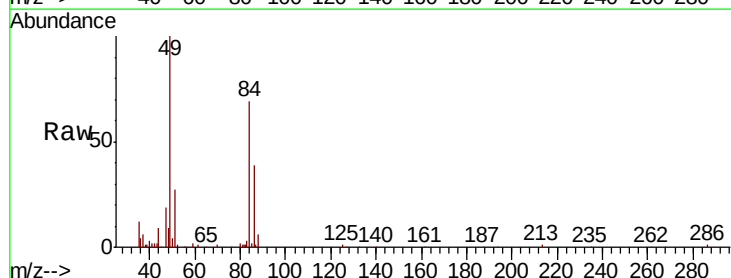
Ion Ratio Lower Upper

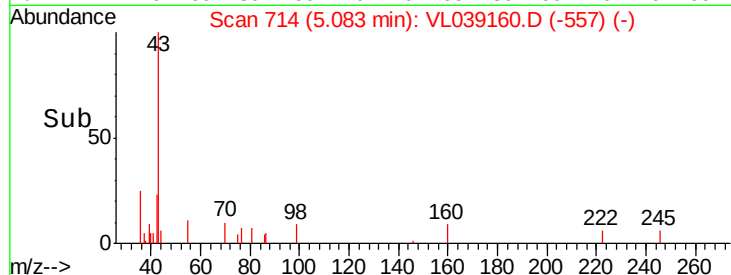
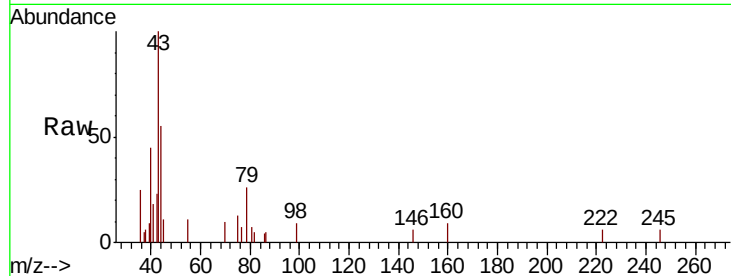
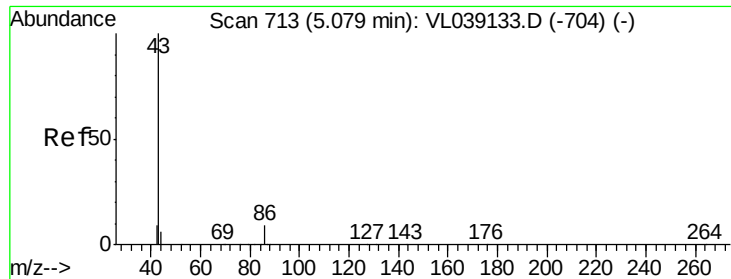
84 100

49 145.2 111.1 166.7

51 38.6 35.3 52.9

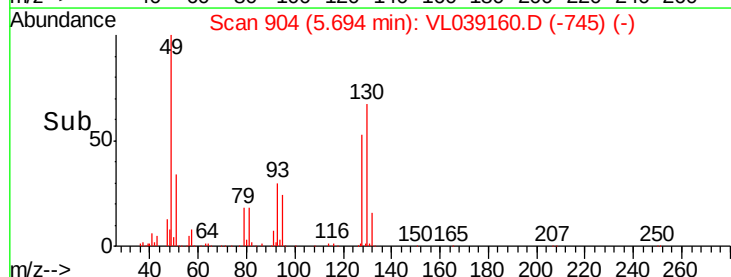
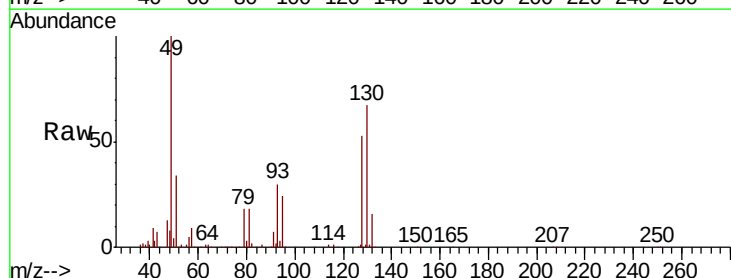
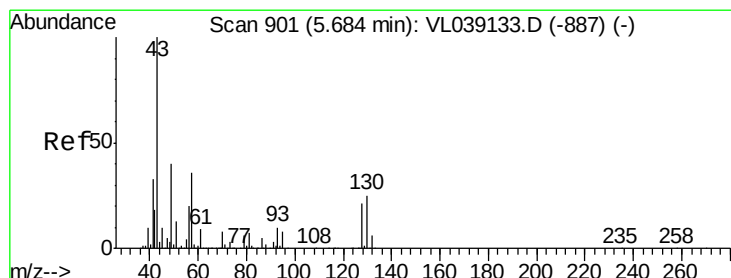
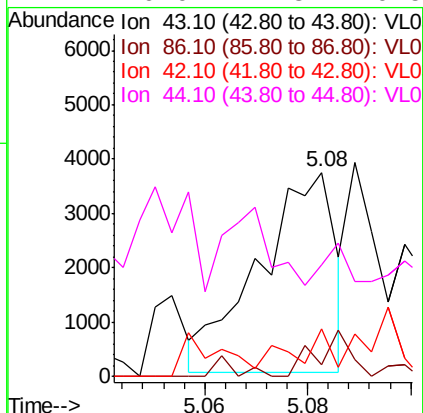
86 56.8 51.9 77.9





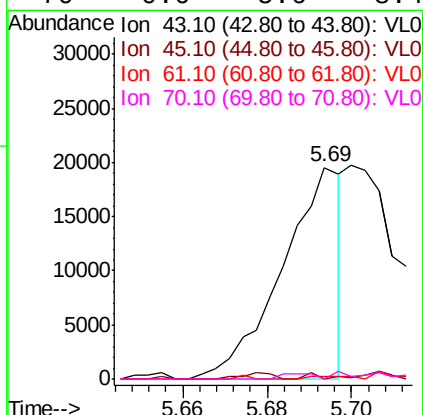
#23
 Vinyl Acetate
 Concen: 0.034 ppbv
 RT: 5.08
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Jun 2022 19:52

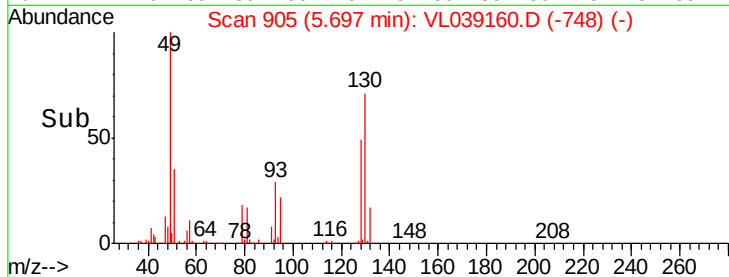
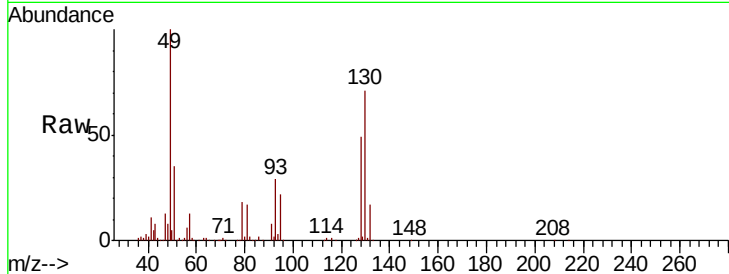
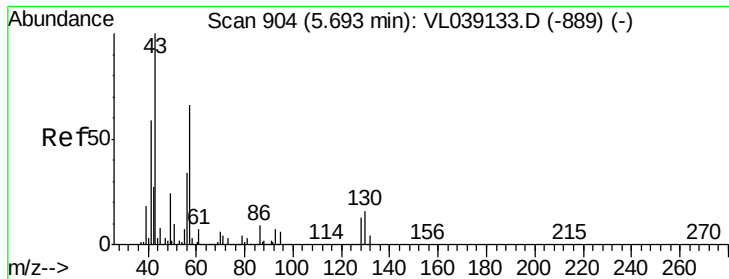
Tot Ion:	43	Resp:	3757
Ion	Ratio	Lower	Upper
43	100		
86	6.5	6.0	9.0
42	23.1	8.2	12.4#
44	0.0	4.3	6.5#



#25
 Ethyl Acetate
 Concen: 0.062 ppbv
 RT: 5.69 min Scan# 904
 Delta R.T. 0.01 min
 Lab File: VL039160.D
 Acq: 3 Jun 2022 19:52

Tgt Ion:	43	Resp:	18980
Ion	Ratio	Lower	Upper
43	100		
45	1.5	8.2	12.2#
61	0.0	8.4	12.6#
70	0.0	5.6	8.4#





#26

Hexane

Concen: 0.408 ppbv

RT: 5.70 Instrument:

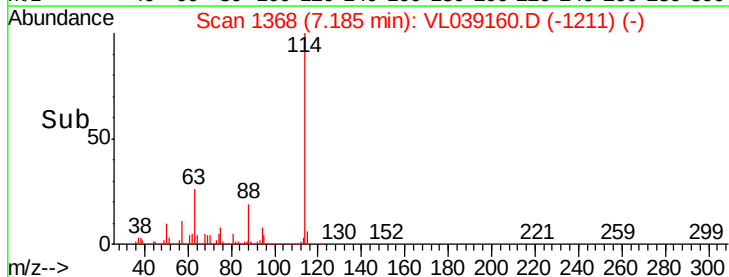
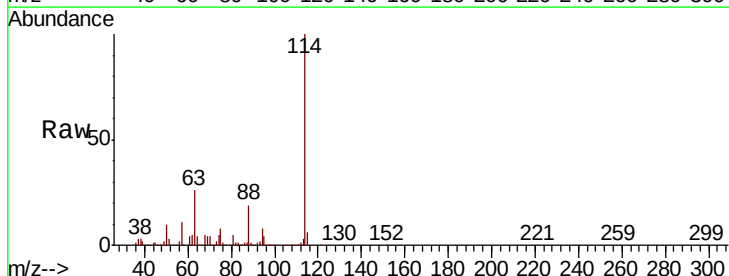
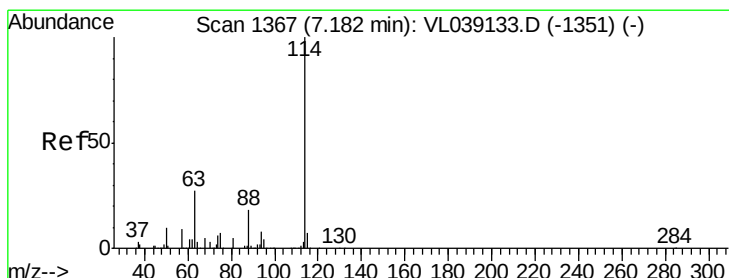
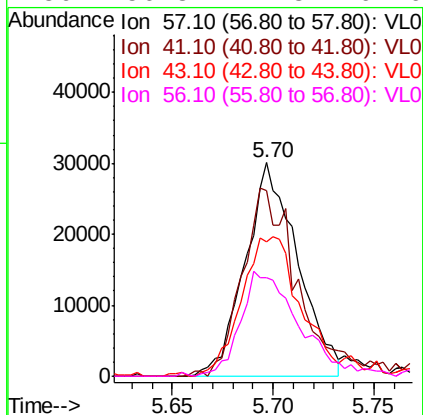
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Jun 2022 19:52 OA1DL

Tot Ion: 57 Resp: 54625

Ion	Ratio	Lower	Upper
57	100		
41	98.0	72.4	108.6
43	79.3	187.0	280.6#
56	56.8	41.8	62.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

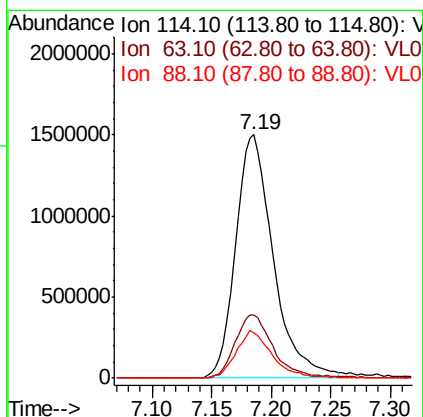
Delta R.T. 0.00 min

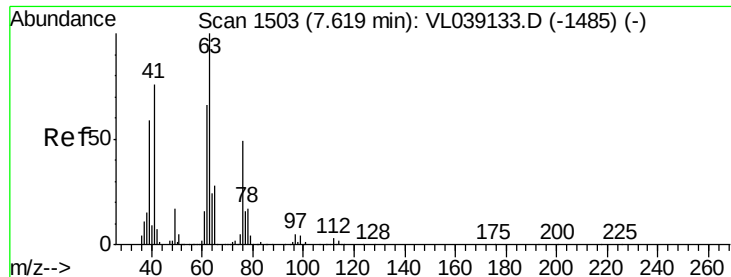
Lab File: VL039160.D

Acq: 3 Jun 2022 19:52

Tgt Ion: 114 Resp: 3288235

Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.7	32.5
88	19.1	14.8	22.2





#39

1,2-Dichloropropane

Concen: 8.028 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Jun 2022 19:52 OA1DL

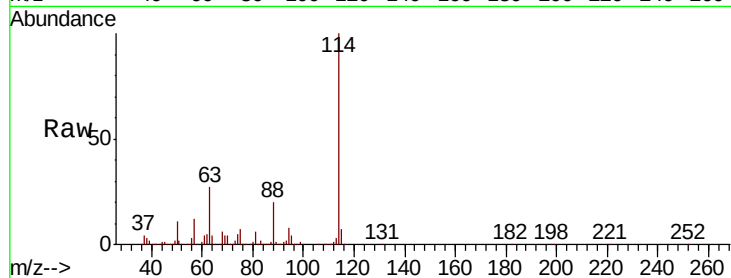
Tot Ion: 63 Resp: 852423

Ion Ratio Lower Upper

63 100

41 0.1 60.8 91.2#

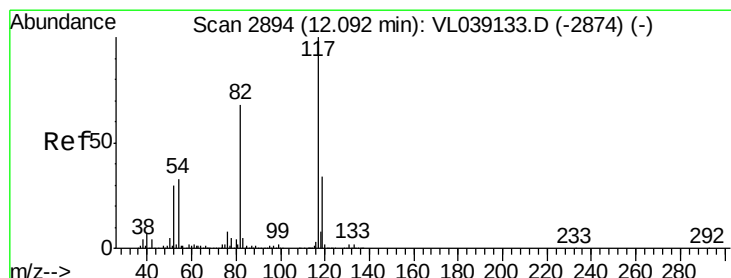
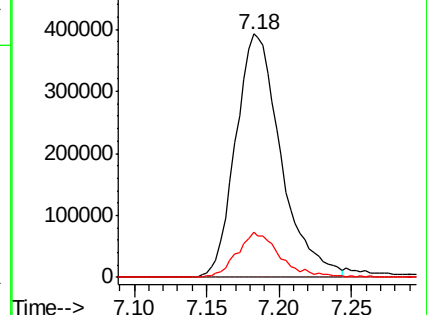
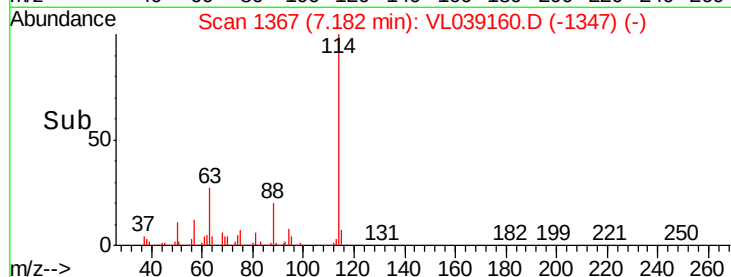
62 18.2 52.9 79.3#



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: 12.09 min Scan# 2894

Delta R.T. 0.00 min

Lab File: VL039160.D

Acq: 3 Jun 2022 19:52

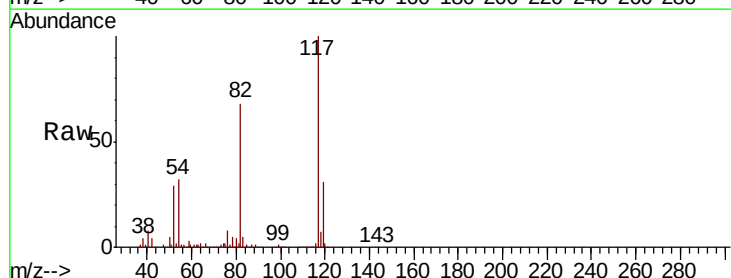
Tgt Ion: 117 Resp: 2847331

Ion Ratio Lower Upper

117 100

82 71.4 55.1 82.7

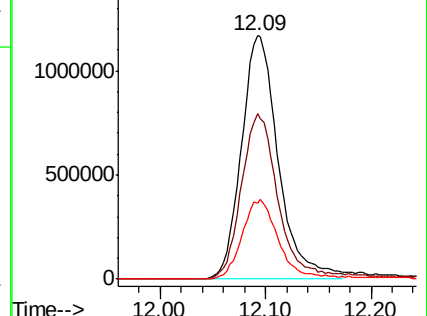
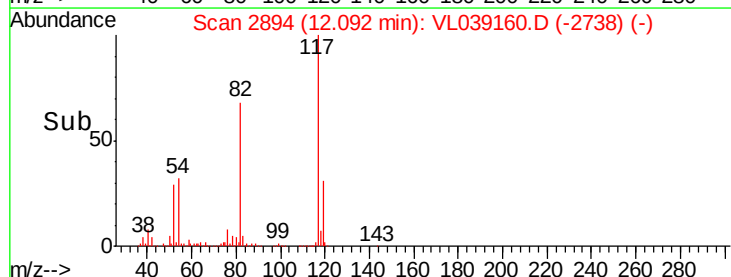
119 33.9 24.7 37.1

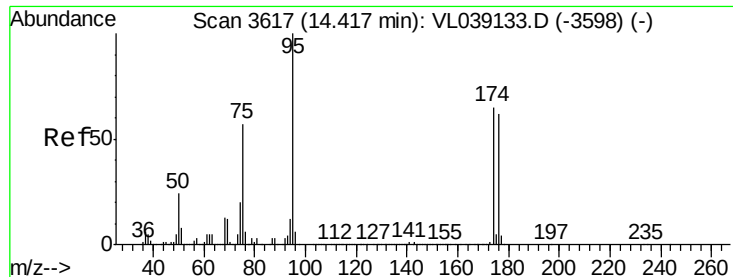


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.294 ppbv

RT: 14.43

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Jun 2022 19:52

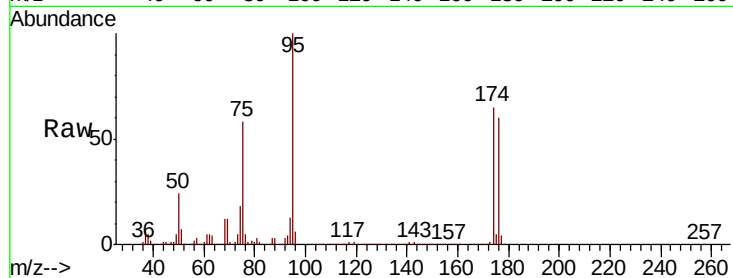
Tot Ion: 95 Resp: 2187747

Ion Ratio Lower Upper

95 100

174 71.9 53.8 80.8

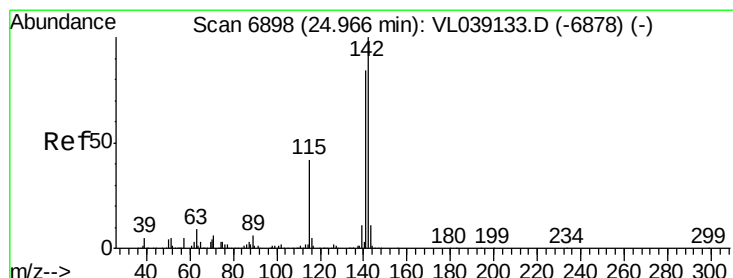
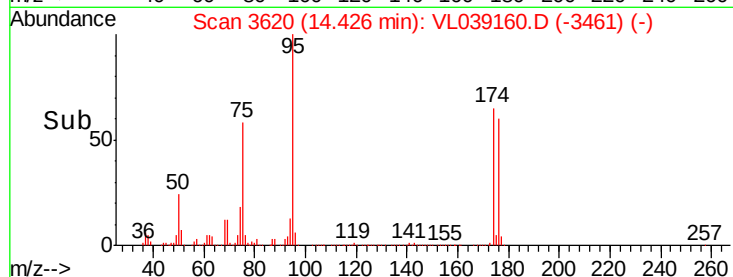
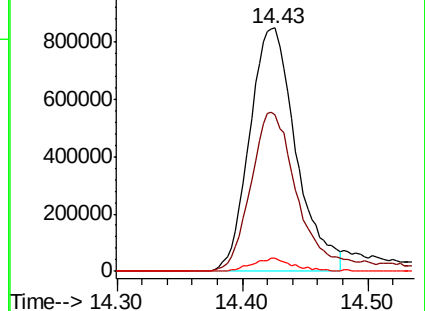
175 4.8 4.1 6.1



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#80

Naphthalene, 2-methyl-

Concen: 0.052 ppbv

RT: 24.99 min Scan# 6904

Delta R.T. 0.02 min

Lab File: VL039160.D

Acq: 3 Jun 2022 19:52

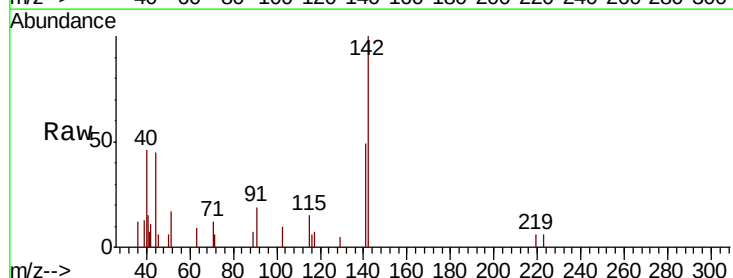
Tgt Ion: 142 Resp: 5728

Ion Ratio Lower Upper

142 100

141 78.4 64.6 96.8

115 43.9 32.7 49.1



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

