

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061522\
 Data File : VL039305.D
 Acq On : 15 Jun 2022 21:16
 Operator : SY/AP
 Sample : N3326-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Jun 16 04:36:05 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	1451691	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3997596	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3635669	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2729278	9.08	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.80%

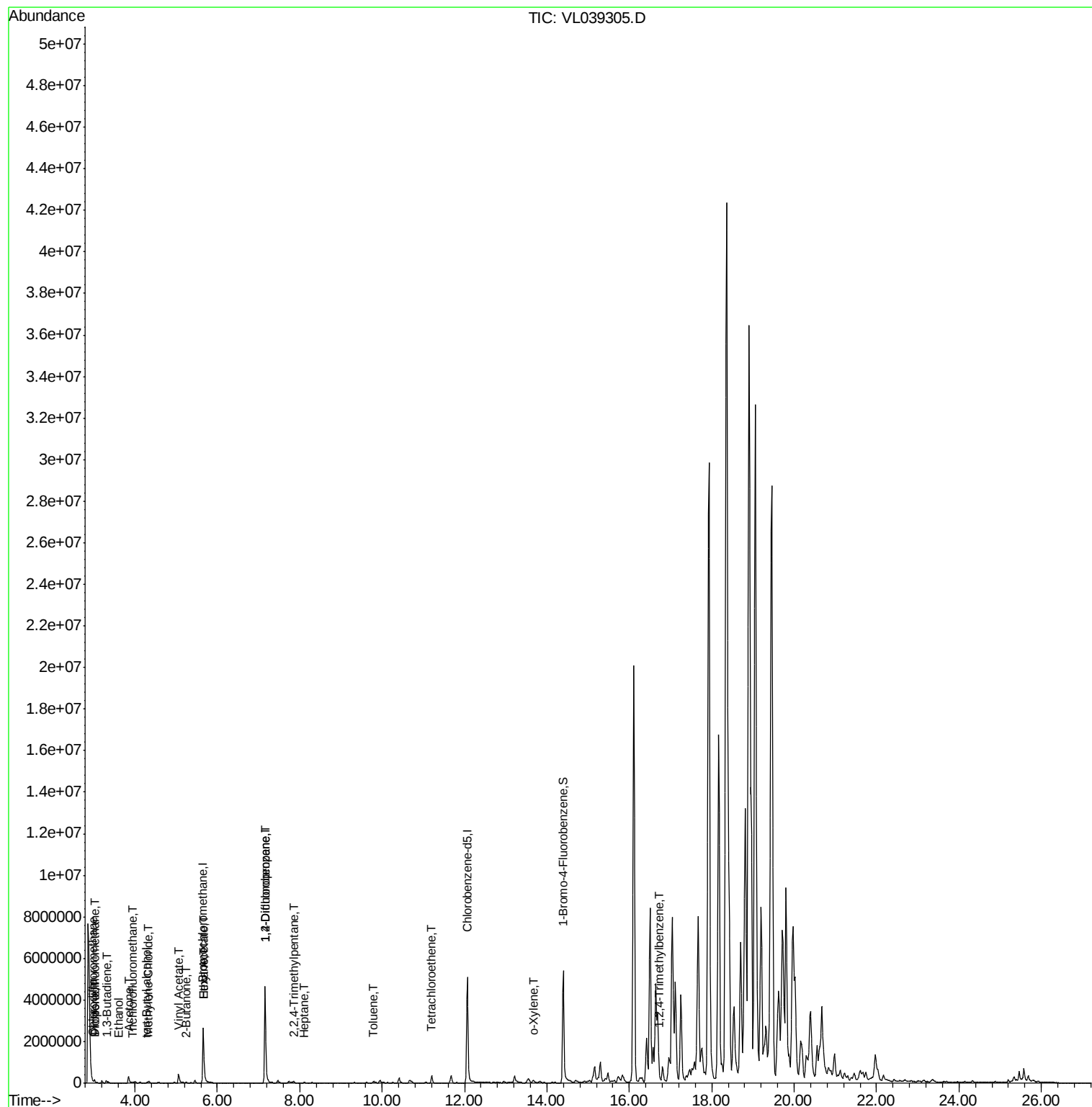
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	14258	0.056	ppbv	92
3) Chlorodifluoromethane	2.99	51	10382	0.056	ppbv #	84
9) Propene	3.02	41	38396	0.477	ppbv #	79
10) Heptane	8.11	43	8045	0.043	ppbv #	21
11) Trichlorofluoromethane	3.94	101	11422	0.049	ppbv #	74
13) Ethanol	3.59	45	5357	1.220	ppbv #	100
15) Acetone	3.84	43	439427	2.906	ppbv	99
16) 1,3-Butadiene	3.32	39	2954	0.036	ppbv #	44
17) tert-Butyl alcohol	4.29	59	12756	0.109	ppbv #	70
20) Methylene Chloride	4.34	84	27947	0.439	ppbv #	84
23) Vinyl Acetate	5.06	43	665163	5.316	ppbv	98
25) Ethyl Acetate	5.68	43	82199	0.241	ppbv #	77
26) Hexane	5.68	57	108901	0.727	ppbv #	34
34) 2-Butanone	5.25	43	34180	0.157	ppbv #	73
39) 1,2-Dichloropropane	7.16	63	989692	7.667	ppbv #	24
44) 2,2,4-Trimethylpentane	7.86	57	65942	0.116	ppbv #	57
52) Tetrachloroethene	11.20	164	35320	0.279	ppbv	96
53) Toluene	9.79	91	37411	0.100	ppbv #	71
60) o-Xylene	13.67	91	32974	0.080	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	31011	0.063	ppbv #	51

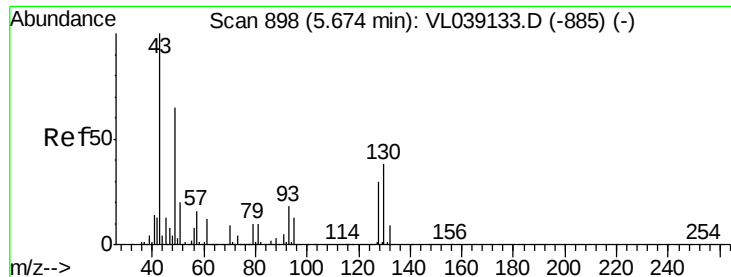
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV1DL

Acq: 15 Jun 2022 21:10

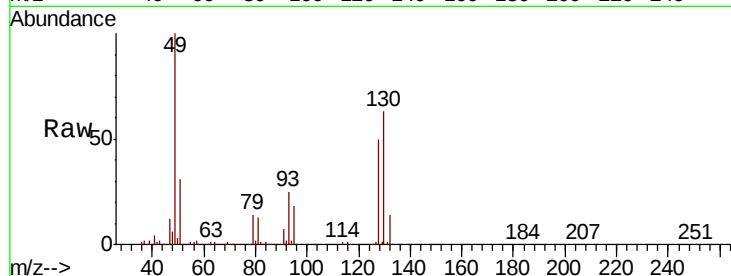
Tot Ion: 49 Resp: 1451691

Ion Ratio Lower Upper

49 100

128 52.1 24.7 74.1

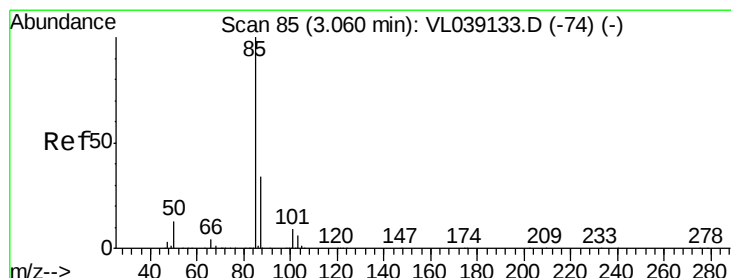
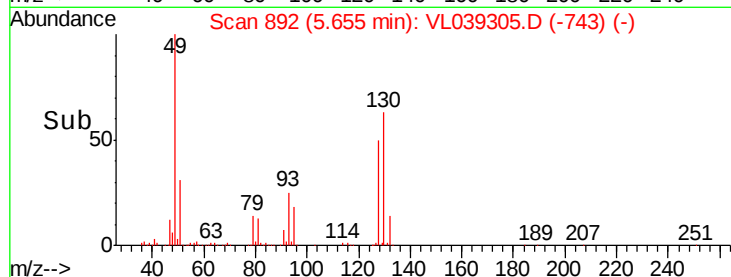
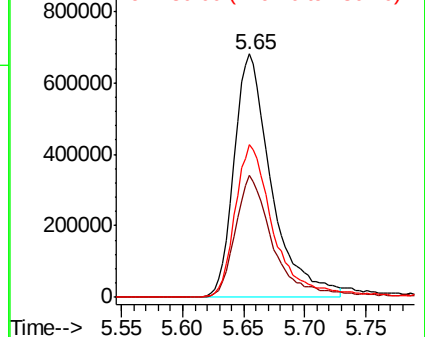
130 66.9 31.4 94.0



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: 0.056 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.02 min

Lab File: VL039305.D

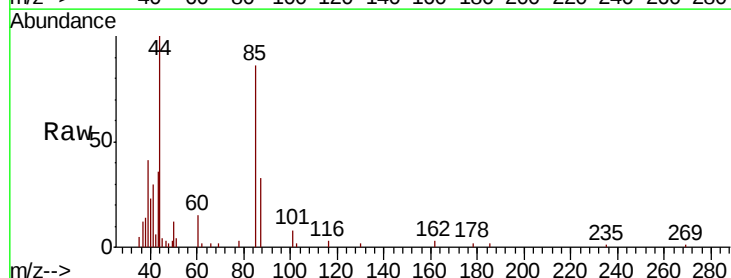
Acq: 15 Jun 2022 21:16

Tgt Ion: 85 Resp: 14258

Ion Ratio Lower Upper

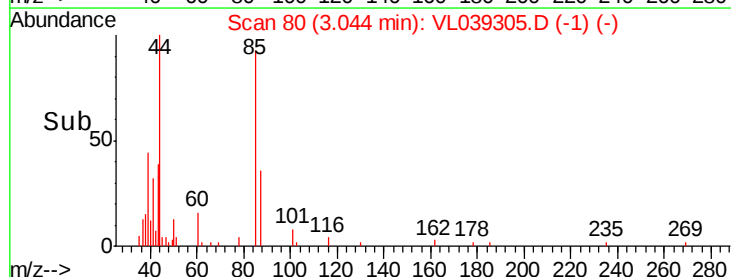
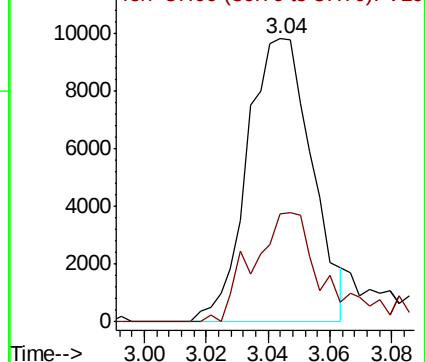
85 100

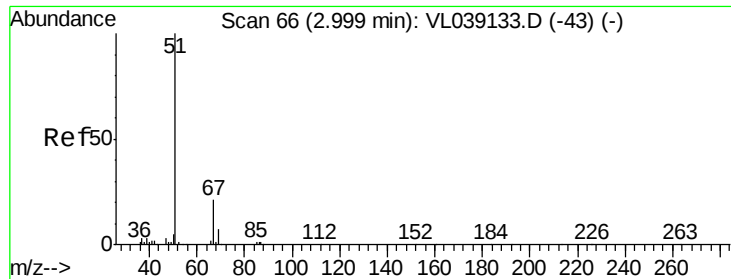
87 38.2 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

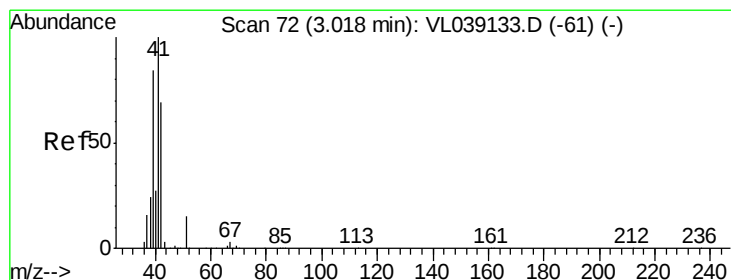
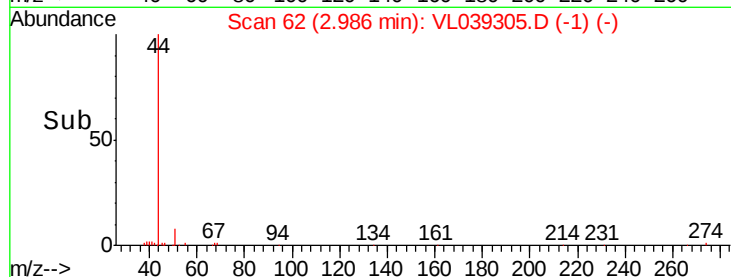
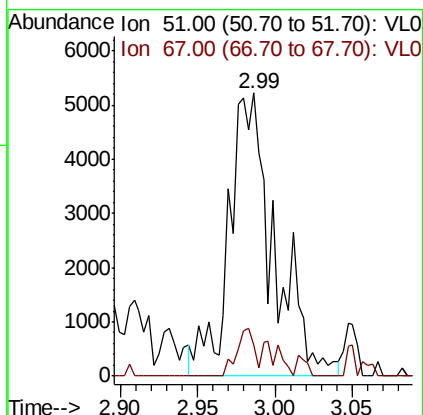
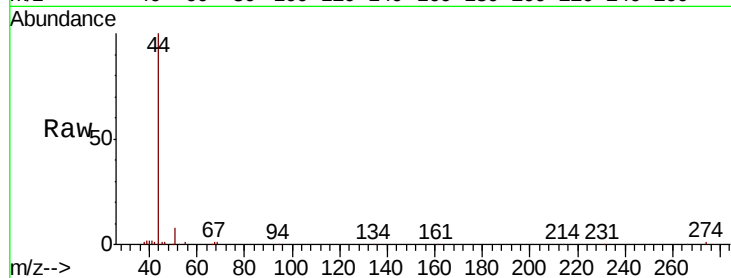
Ion 87.00 (86.70 to 87.70): VL0





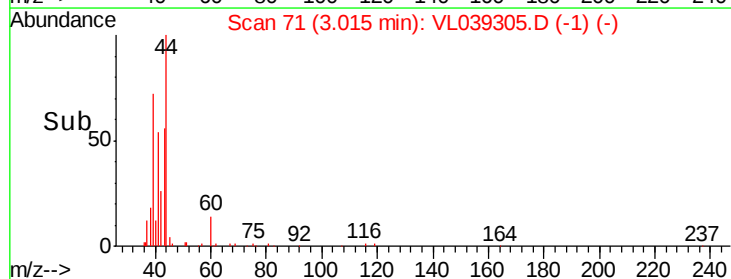
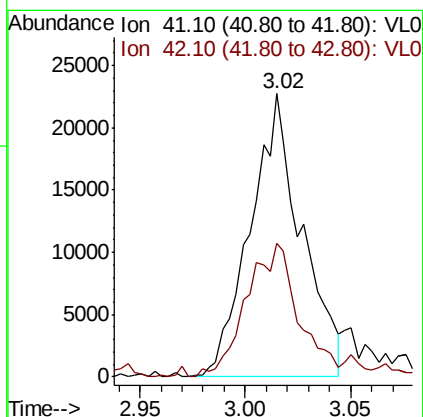
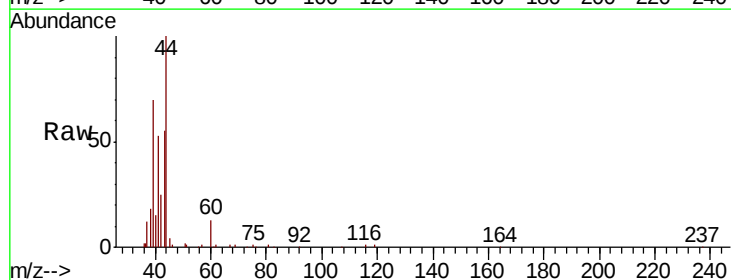
#3
 Chlorodifluoromethane
 Concen: 0.056 ppbv
 RT: 2.99
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId : SV1DL
 Acq: 15 Jun 2022 21:16

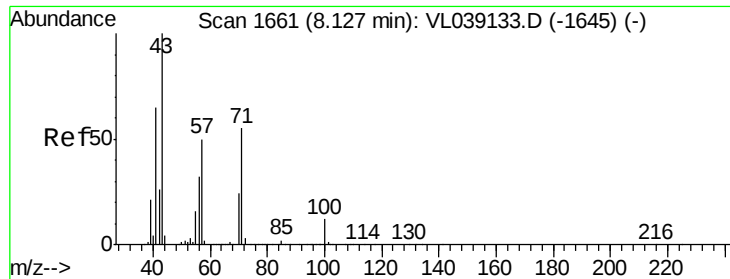
Tot Ion: 51 Resp: 10382
 Ion Ratio Lower Upper
 51 100
 67 12.9 16.2 24.4#



#9
 Propene
 Concen: 0.477 ppbv
 RT: 3.02 min Scan# 71
 Delta R.T. -0.00 min
 Lab File: VL039305.D
 Acq: 15 Jun 2022 21:16

Tgt Ion: 41 Resp: 38396
 Ion Ratio Lower Upper
 41 100
 42 52.6 55.4 83.2#





#10

Heptane

Concen: 0.043 ppbv

RT: 8.11 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

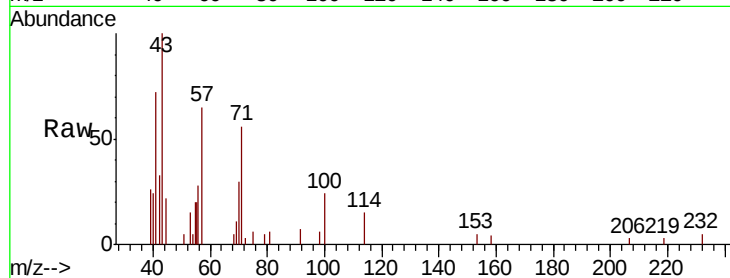
Acq: 15 Jun 2022 21:16 SV1DL

Tot Ion: 43 Resp: 8045

Ion Ratio Lower Upper

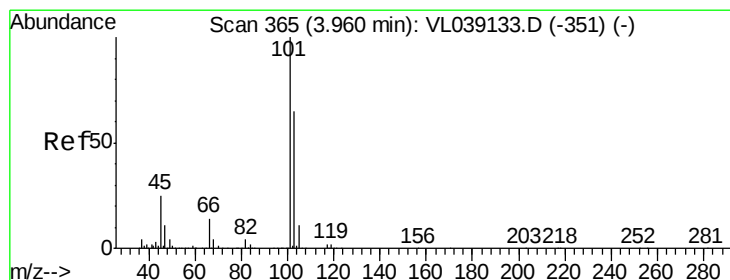
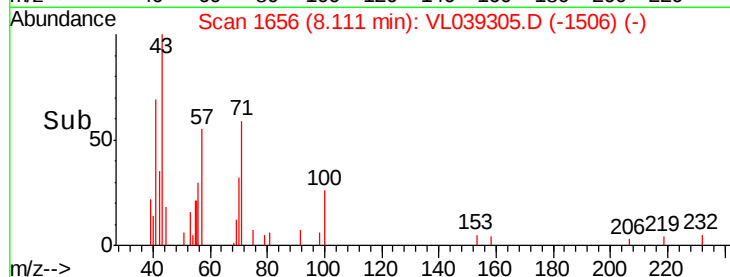
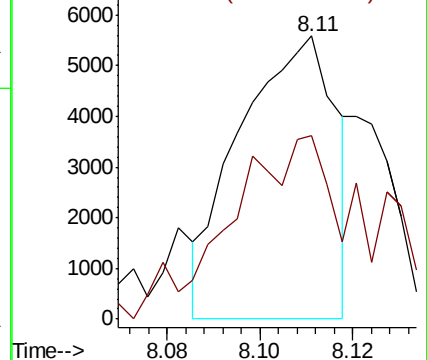
43 100

57 107.0 41.4 62.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.049 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.02 min

Lab File: VL039305.D

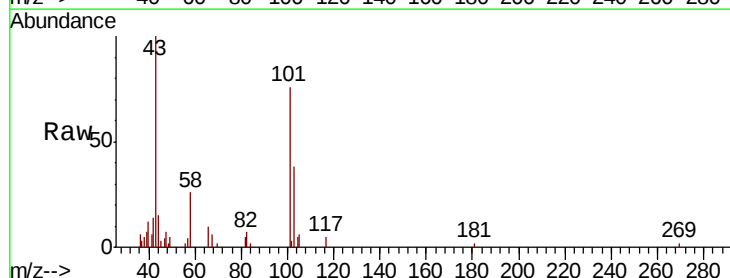
Acq: 15 Jun 2022 21:16

Tgt Ion: 101 Resp: 11422

Ion Ratio Lower Upper

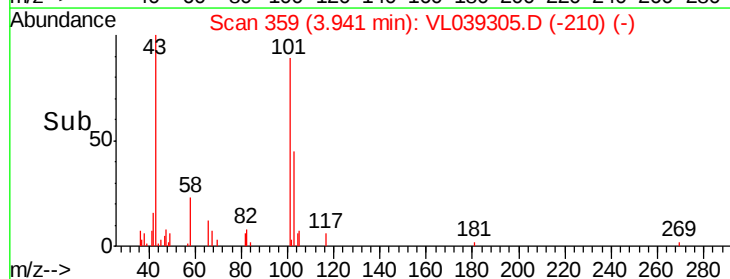
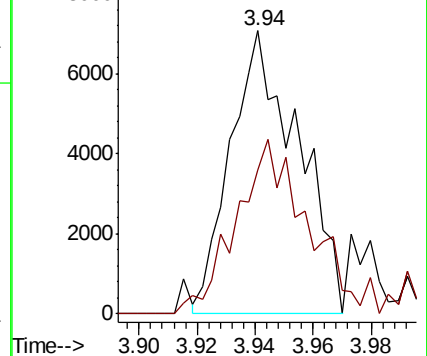
101 100

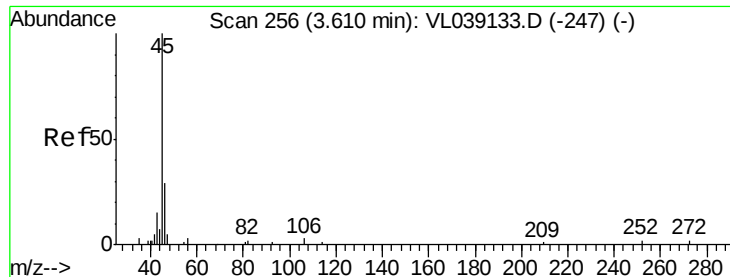
103 44.2 51.7 77.5#



Abundance Ion 101.00 (100.70 to 101.70): V

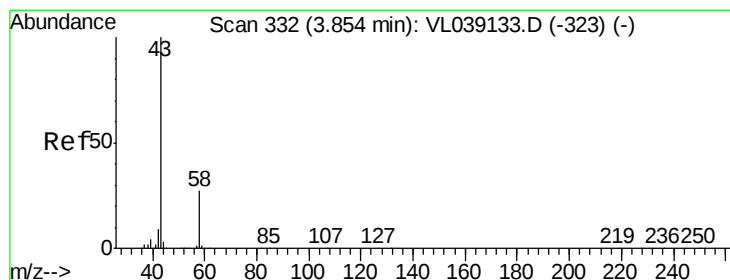
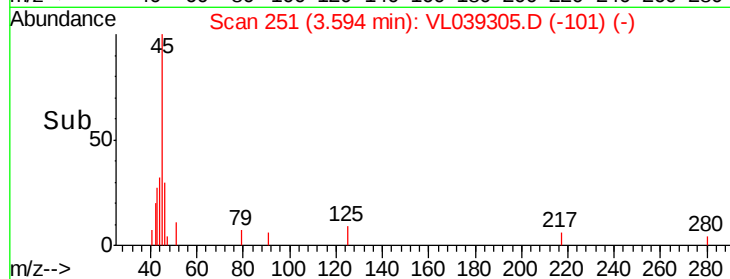
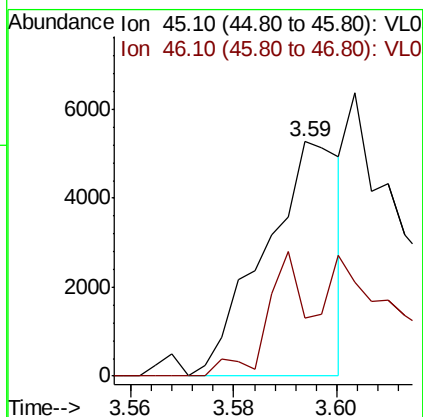
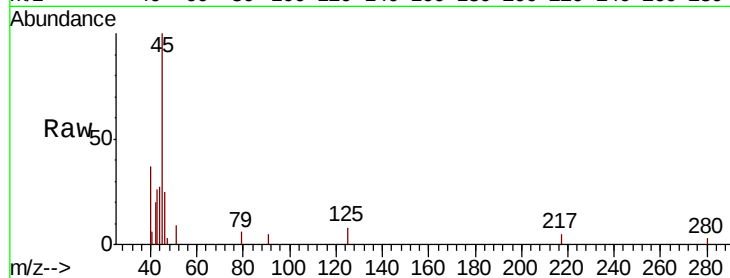
Ion 103.00 (102.70 to 103.70): V





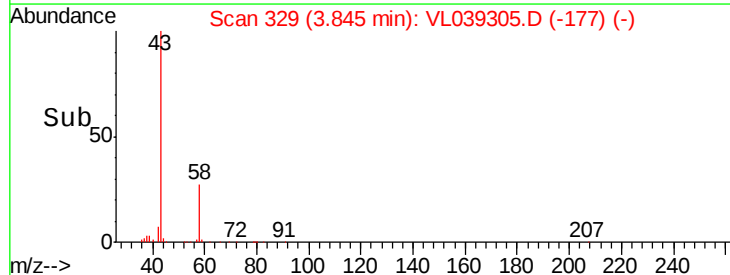
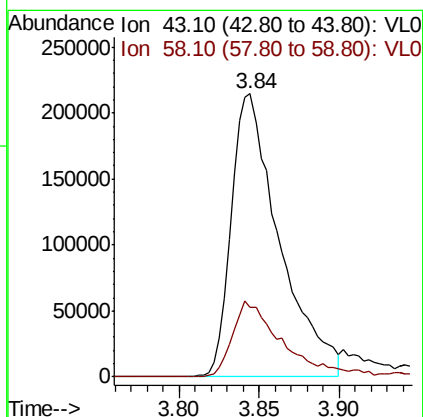
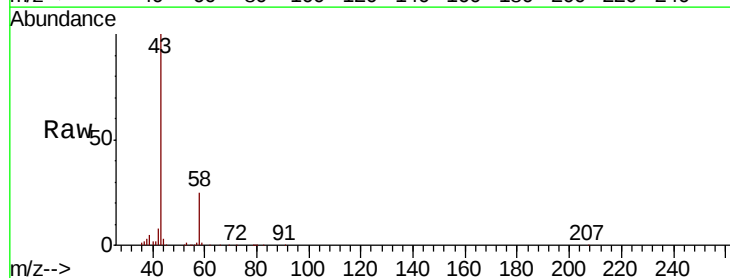
#13
Ethanol
Concen: 1.220 ppbv
RT: 3.59
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1DL
Acq: 15 Jun 2022 21:16

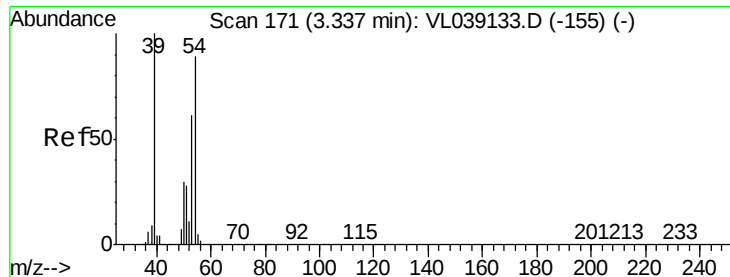
Tot Ion: 45 Resp: 5357
Ion Ratio Lower Upper
45 100
46 86.2 0.0 0.0#



#15
Acetone
Concen: 2.906 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL039305.D
Acq: 15 Jun 2022 21:16

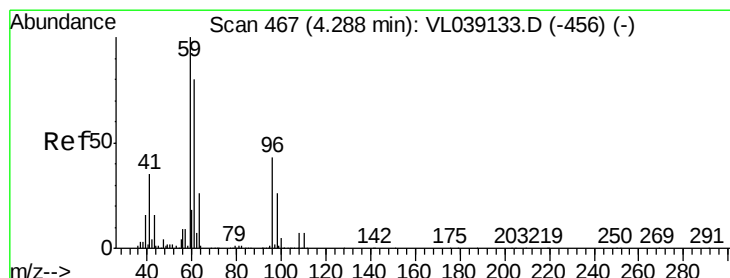
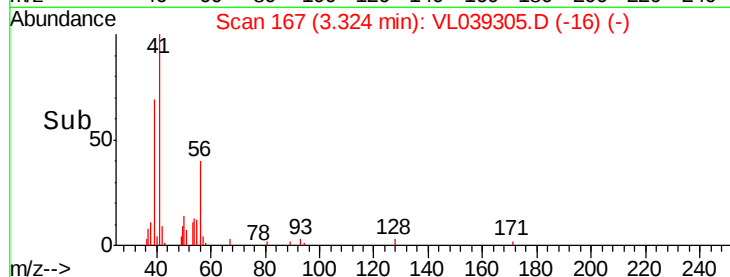
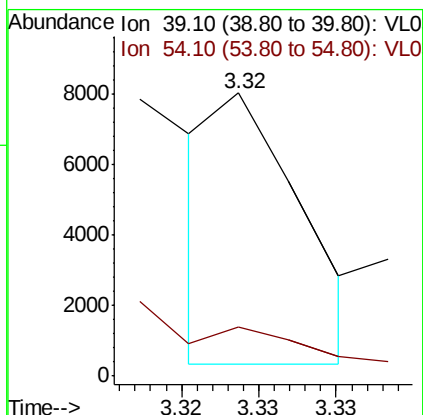
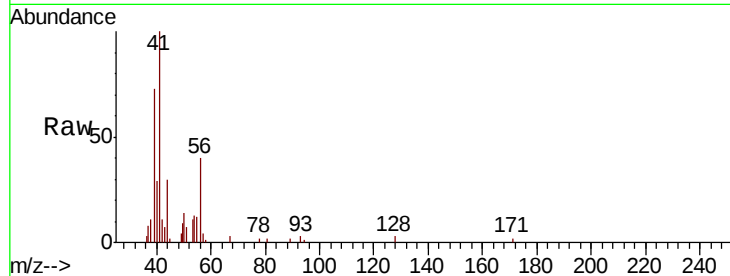
Tgt Ion: 43 Resp: 439427
Ion Ratio Lower Upper
43 100
58 28.5 22.5 33.7





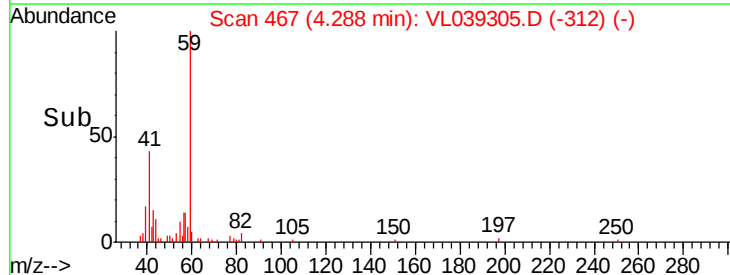
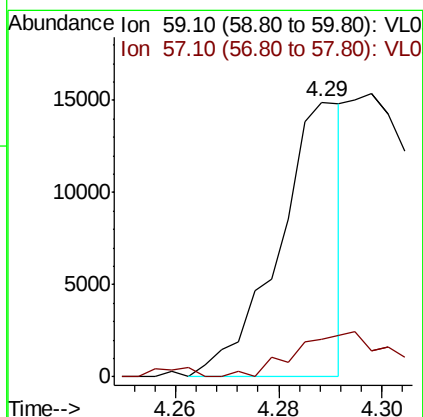
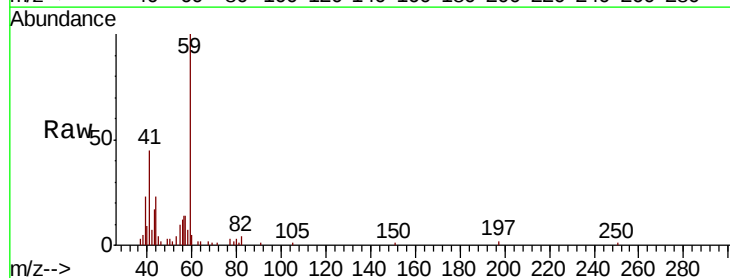
#16
 1,3-Butadiene
 Concen: 0.036 ppbv
 RT: 3.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1DL
 Acq: 15 Jun 2022 21:16

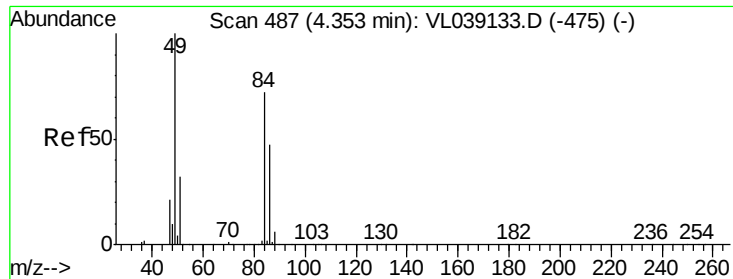
Tot Ion: 39 Resp: 2954
 Ion Ratio Lower Upper
 39 100
 54 132.0 65.8 98.6#



#17
 tert-Butyl alcohol
 Concen: 0.109 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. -0.00 min
 Lab File: VL039305.D
 Acq: 15 Jun 2022 21:16

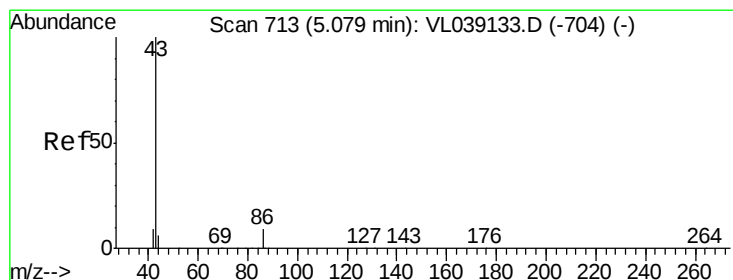
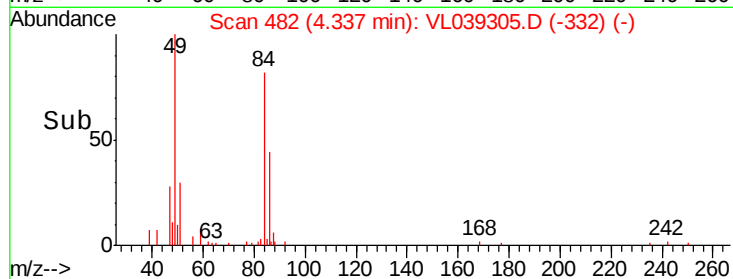
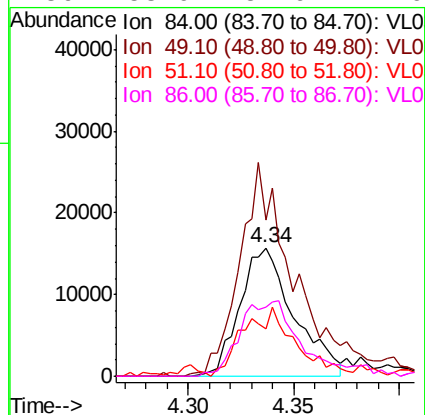
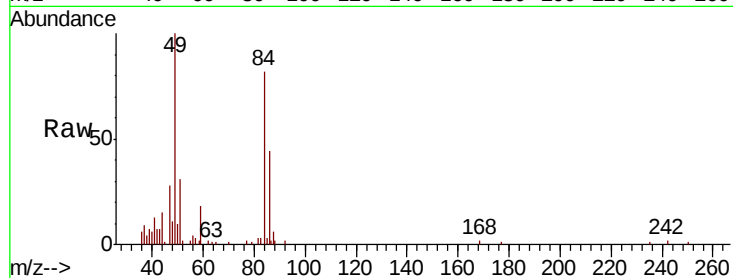
Tgt Ion: 59 Resp: 12756
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.1 13.7#





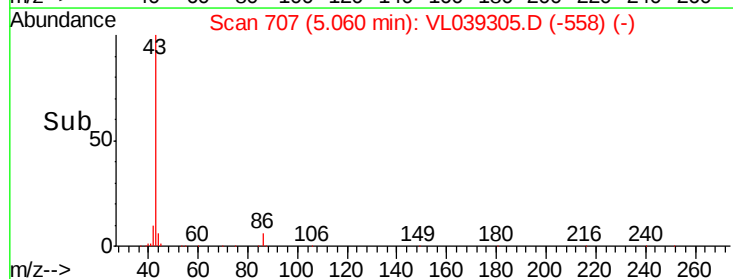
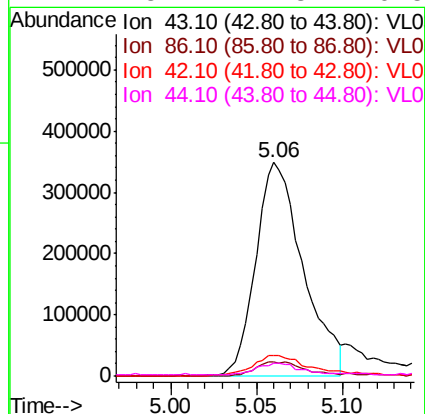
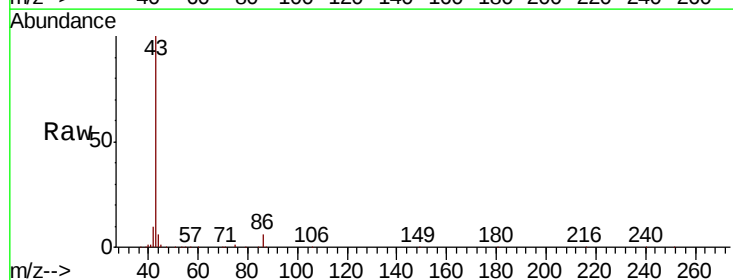
#20
Methvlene Chloride
Concen: 0.439 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1DL
Acq: 15 Jun 2022 21:16

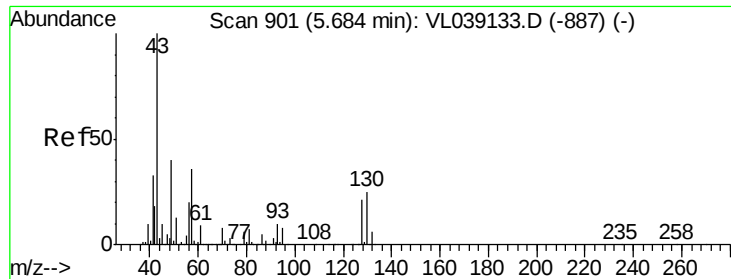
Tot Ion:	84	Resp:	27947
Ion	Ratio	Lower	Upper
84	100		
49	119.3	111.1	166.7
51	30.8	35.3	52.9#
86	53.9	51.9	77.9



#23
Vinyl Acetate
Concen: 5.316 ppbv
RT: 5.06 min Scan# 707
Delta R.T. -0.02 min
Lab File: VL039305.D
Acq: 15 Jun 2022 21:16

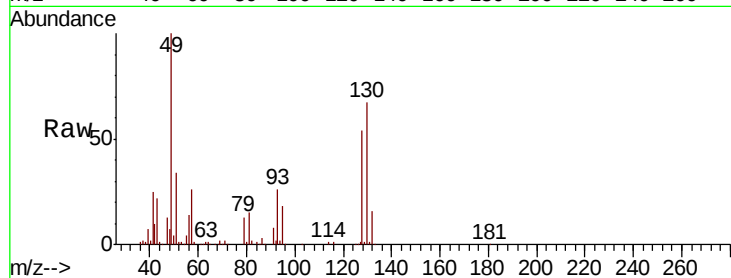
Tgt Ion:	43	Resp:	665163
Ion	Ratio	Lower	Upper
43	100		
86	6.3	6.0	9.0
42	9.6	8.2	12.4
44	5.4	4.3	6.5



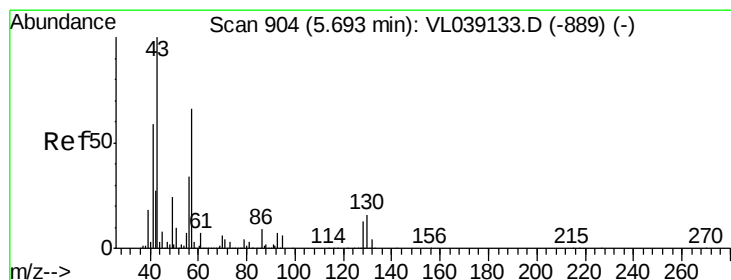
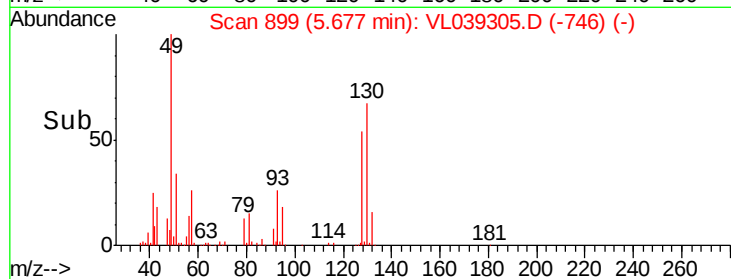
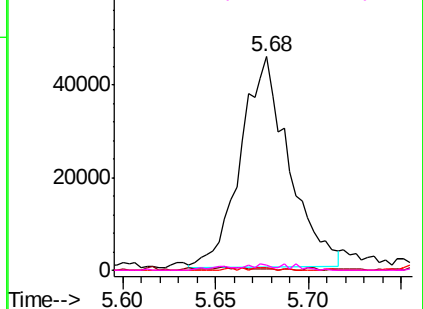


#25
Ethyl Acetate
Concen: 0.241 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1DL
Acq: 15 Jun 2022 21:16

Tot Ion:	43	Resp:	82199
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.2#
61	0.6	8.4	12.6#
70	3.5	5.6	8.4#

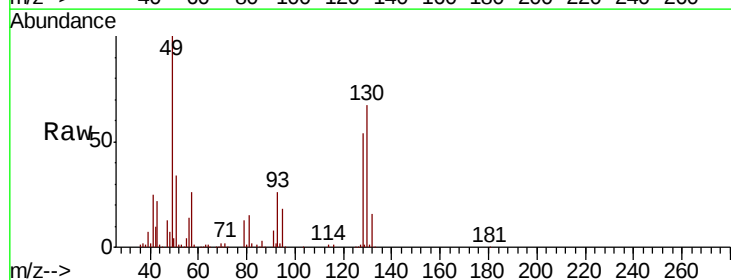


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

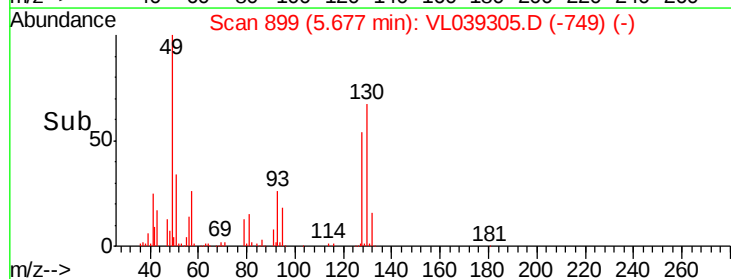
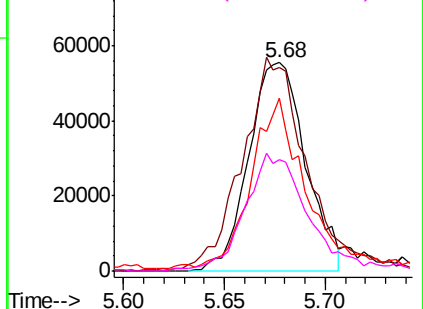


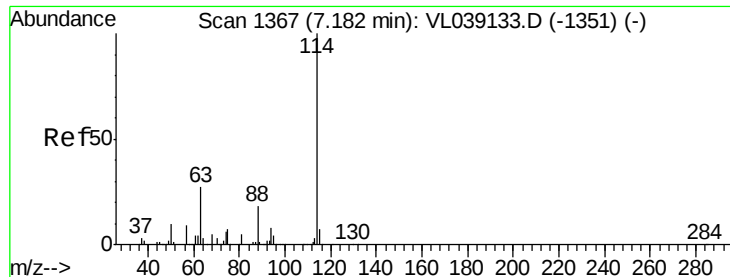
#26
Hexane
Concen: 0.727 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL039305.D
Acq: 15 Jun 2022 21:16

Tgt Ion:	57	Resp:	108901
Ion	Ratio	Lower	Upper
57	100		
41	121.0	72.4	108.6#
43	83.8	187.0	280.6#
56	64.9	41.8	62.6#



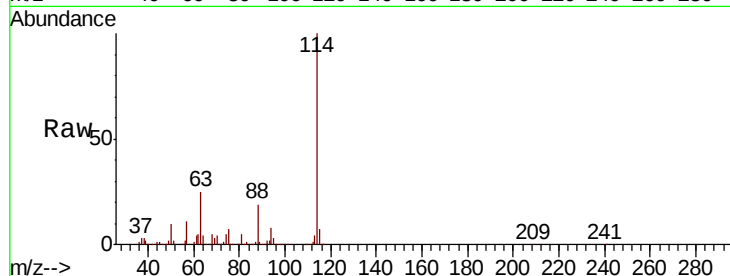
Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



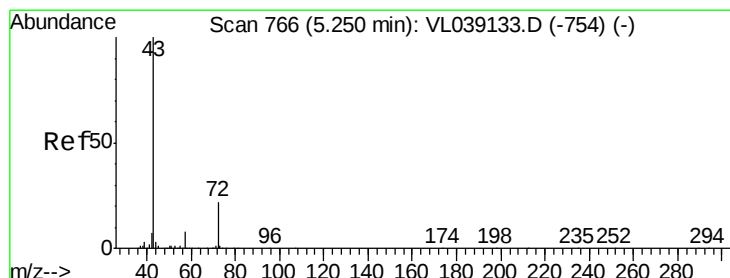
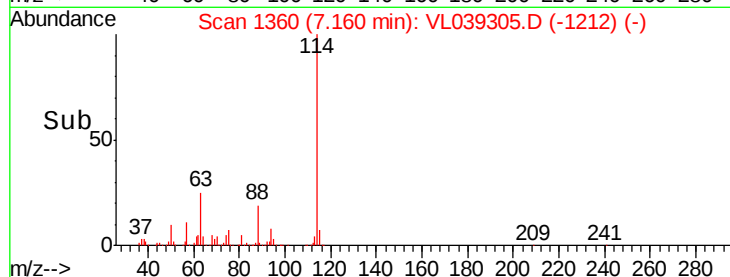
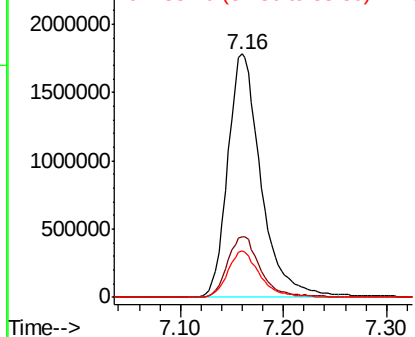


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1DL
 Acq: 15 Jun 2022 21:16

Tot Ion:114 Resp: 3997596
 Ion Ratio Lower Upper
 114 100
 63 25.0 21.7 32.5
 88 18.7 14.8 22.2

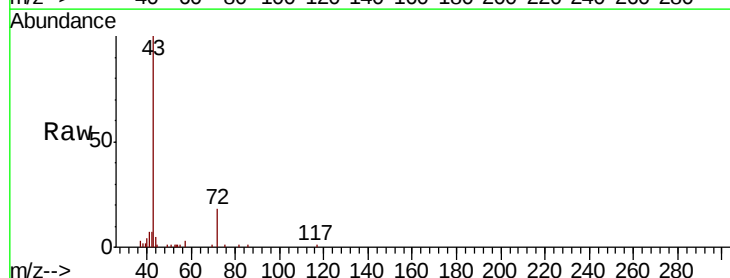


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

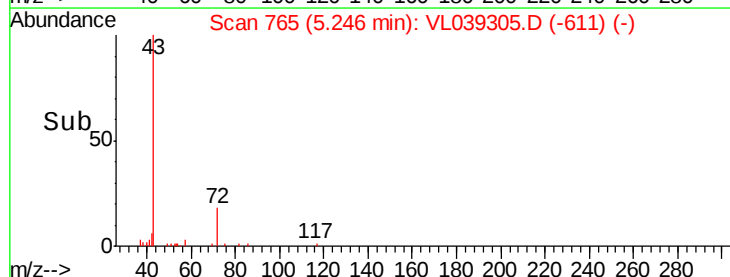
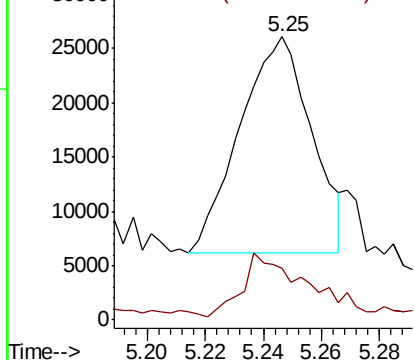


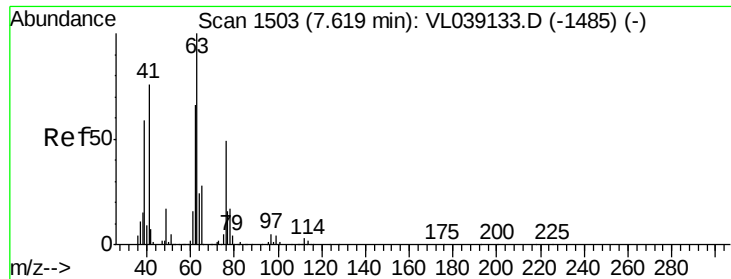
#34
 2-Butanone
 Concen: 0.157 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. -0.00 min
 Lab File: VL039305.D
 Acq: 15 Jun 2022 21:16

Tgt Ion: 43 Resp: 34180
 Ion Ratio Lower Upper
 43 100
 72 35.7 18.2 27.2#



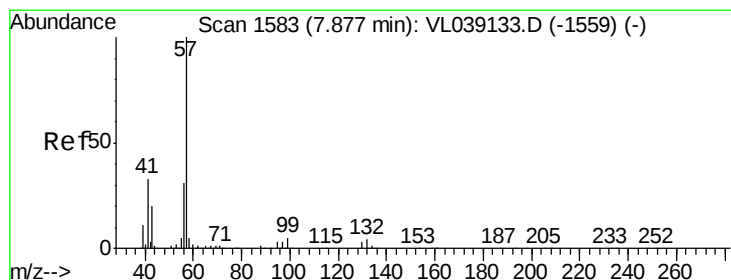
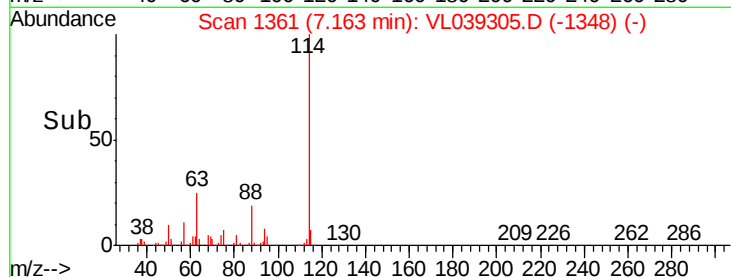
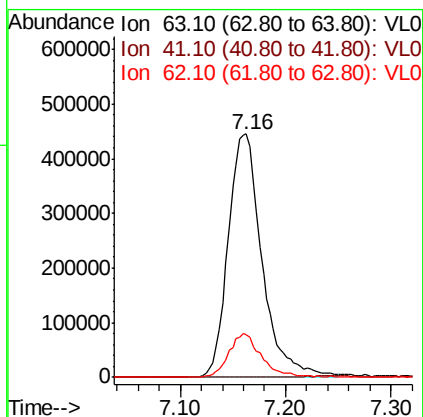
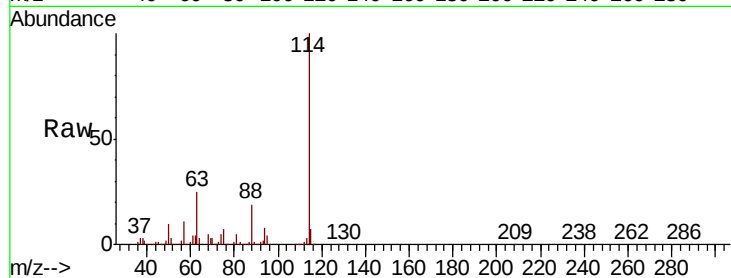
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





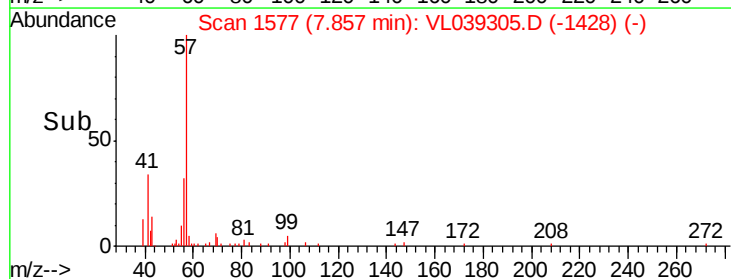
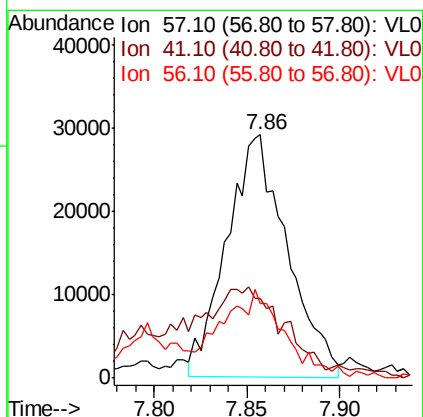
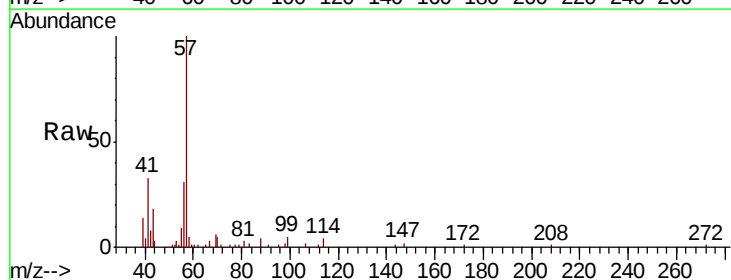
#39
 1,2-Dichloropropane
 Concen: 7.667 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1DL
 Acq: 15 Jun 2022 21:16

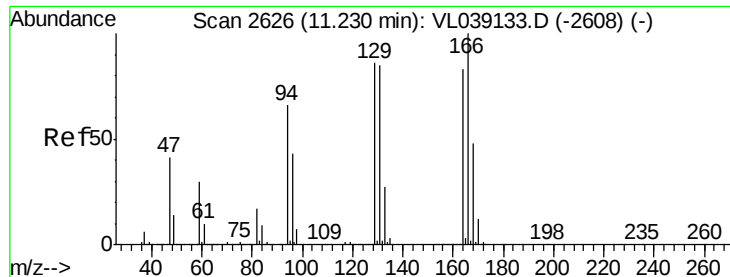
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	17.3	52.9	79.3#



#44
 2,2,4-Trimethylpentane
 Concen: 0.116 ppbv
 RT: 7.86 min Scan# 1577
 Delta R.T. -0.02 min
 Lab File: VL039305.D
 Acq: 15 Jun 2022 21:16

Tgt Ion	Ratio	Lower	Upper
57	100		
41	71.1	26.2	39.4#
56	40.3	24.7	37.1#





#52

Tetrachloroethene

Concen: 0.279 ppbv

RT: 11.20

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 15 Jun 2022 21:16

Tot Ion:164 Resp: 35320

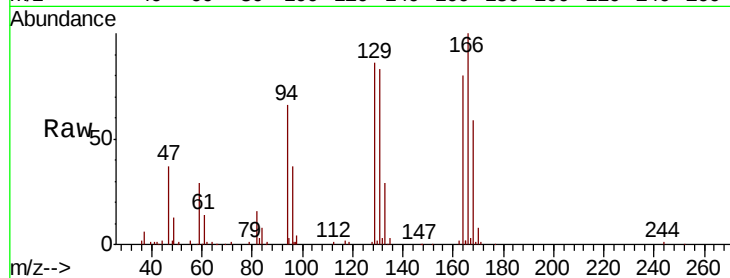
Ion Ratio Lower Upper

164 100

166 125.7 96.3 144.5

129 108.6 82.5 123.7

131 102.7 82.1 123.1

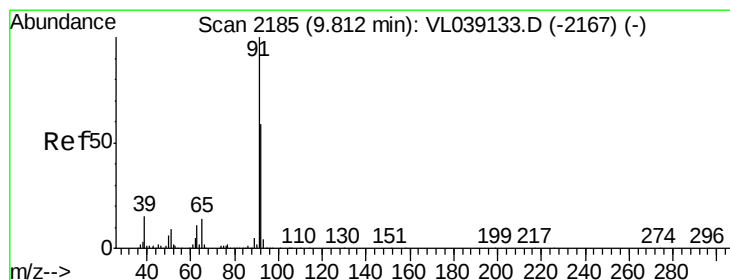
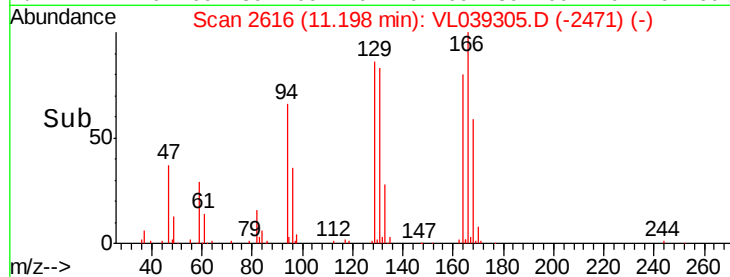
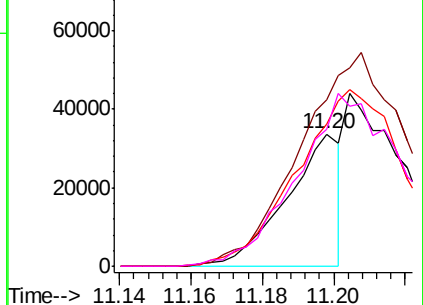


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.100 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.03 min

Lab File: VL039305.D

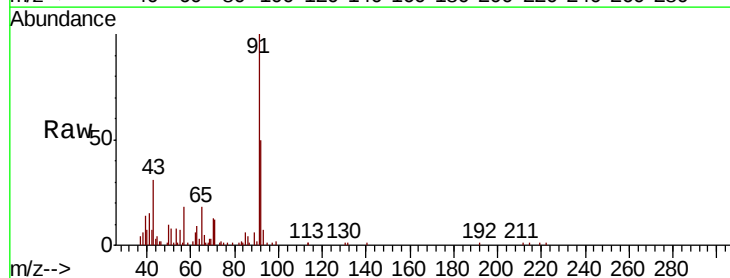
Acq: 15 Jun 2022 21:16

Tgt Ion: 91 Resp: 37411

Ion Ratio Lower Upper

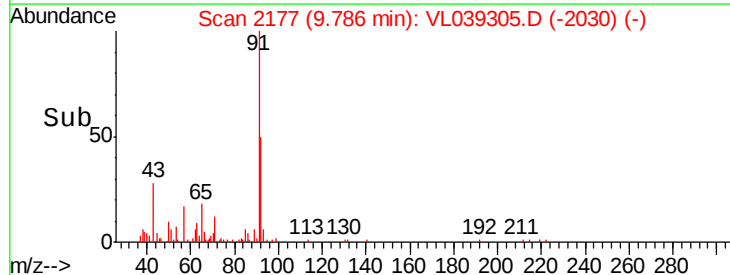
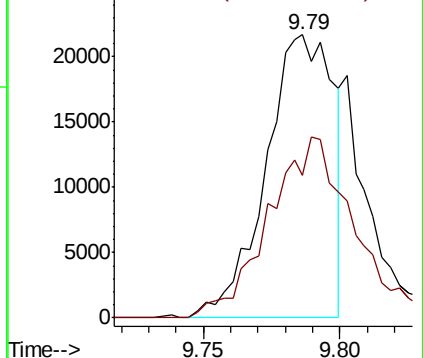
91 100

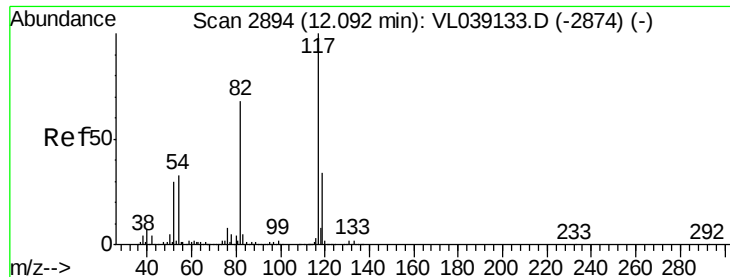
92 82.2 48.1 72.1#



Abundance Ion 91.10 (90.80 to 91.80): VL0

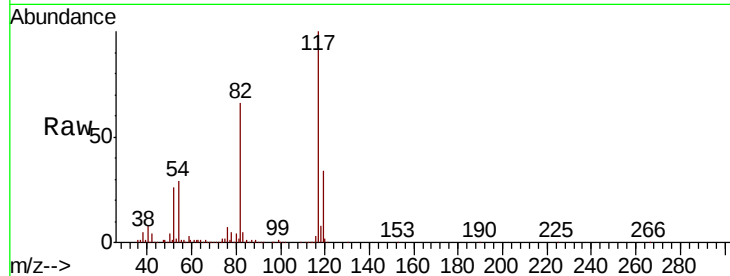
Ion 92.10 (91.80 to 92.80): VL0



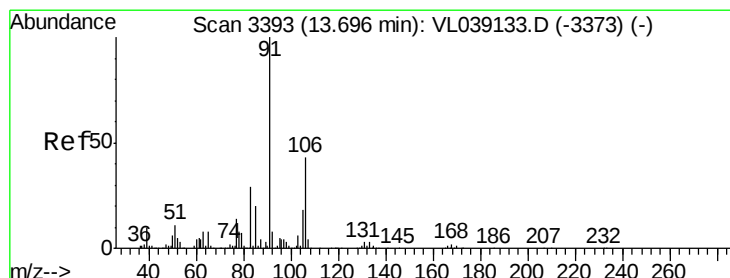
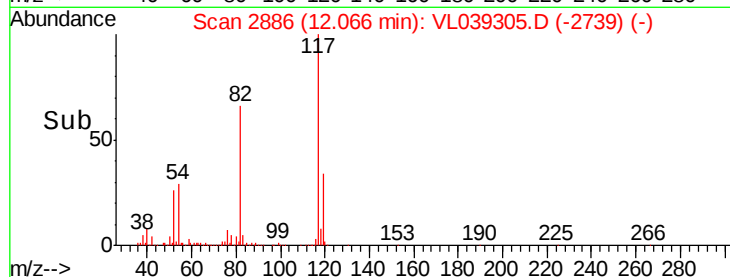
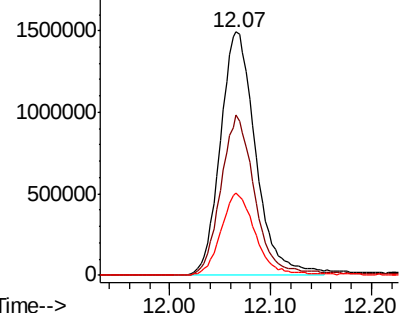


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV1DL
Acq: 15 Jun 2022 21:16

Tot Ion: 117 Resp: 3635669
Ion Ratio Lower Upper
117 100
82 64.6 55.1 82.7
119 33.5 24.7 37.1

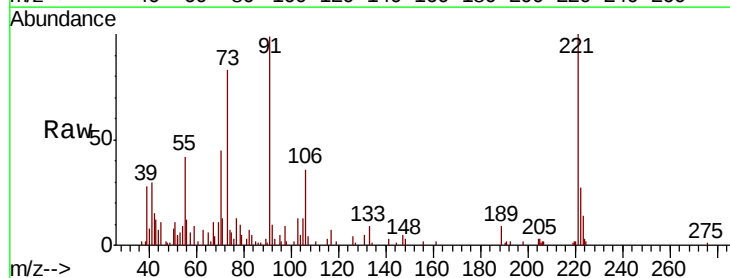


Abundance Ion 117.10 (116.80 to 117.80): V
2000000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

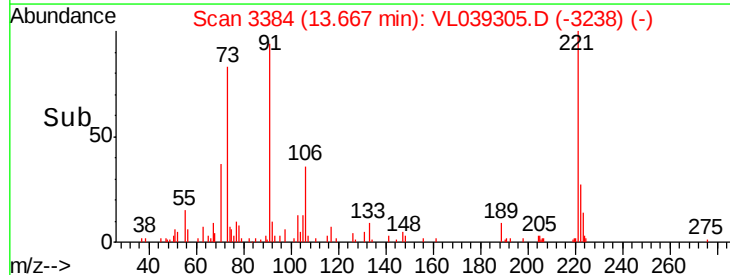
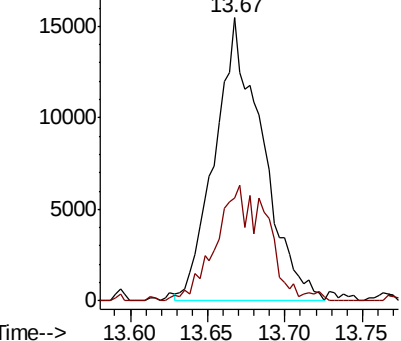


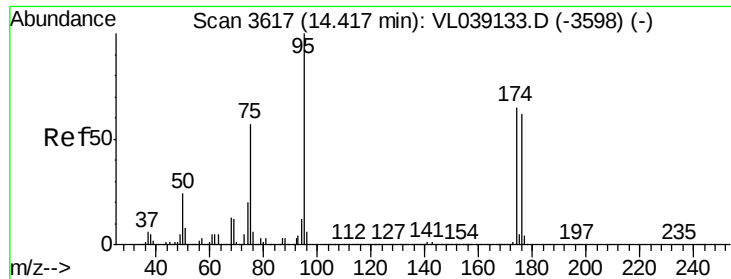
#60
o-Xylene
Concen: 0.080 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. -0.03 min
Lab File: VL039305.D
Acq: 15 Jun 2022 21:16

Tgt Ion: 91 Resp: 32974
Ion Ratio Lower Upper
91 100
106 44.1 22.3 66.9



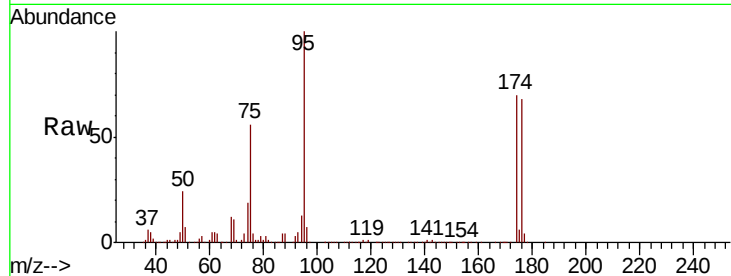
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V



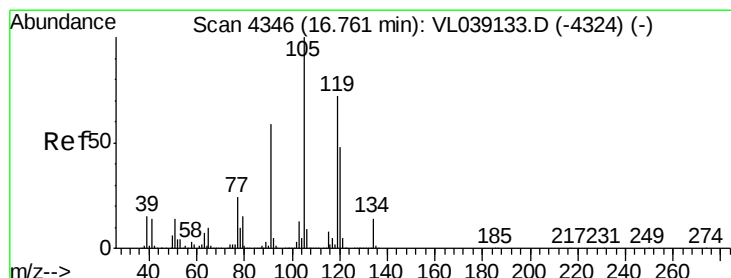
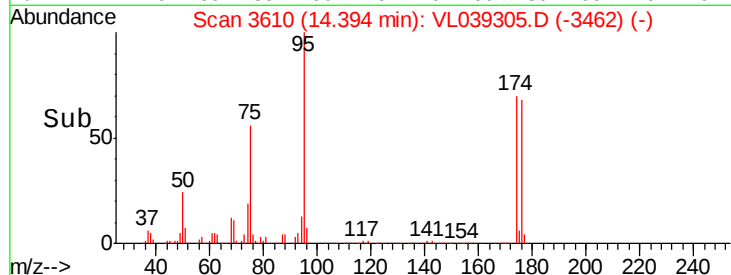
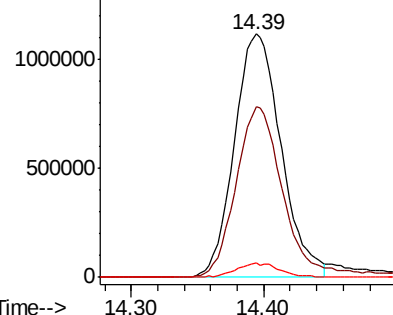


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.080 ppbv
 RT: 14.39
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 SV1DL
 Acq: 15 Jun 2022 21:16

Tot Ion: 95 Resp: 2729278
 Ion Ratio Lower Upper
 95 100
 174 74.1 53.8 80.8
 175 5.6 4.1 6.1

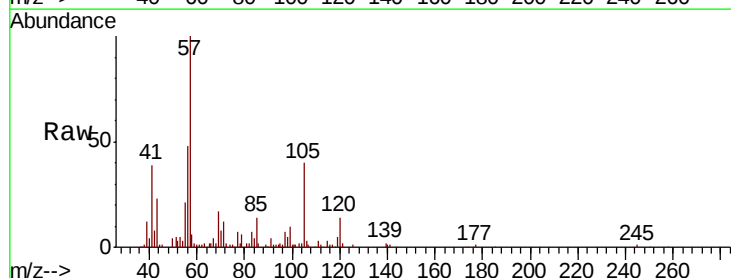


Abundance Ion 95.10 (94.80 to 95.80): VL0
 1500000 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V



#74
 1,2,4-Trimethylbenzene
 Concen: 0.063 ppbv
 RT: 16.74 min Scan# 4339
 Delta R.T. -0.02 min
 Lab File: VL039305.D
 Acq: 15 Jun 2022 21:16

Tgt Ion: 105 Resp: 31011
 Ion Ratio Lower Upper
 105 100
 120 32.8 38.1 57.1#
 91 2.8 47.4 71.0#
 77 6.5 19.5 29.3#



Abundance Ion 105.10 (104.80 to 105.80): V
 40000 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

