

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081722\
 Data File : VL039549.D
 Acq On : 17 Aug 2022 15:37
 Operator : SY/AP
 Sample : N4125-01 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Aug 18 05:36:23 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 17 12:06:24 2022
 QLast Update : Wed Aug 17 12:06:24 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.20	49	1113713	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	6.66	114	2850381	10.00	ppbv	0.00
55) Chlorobenzene-d5	11.47	117	2604938	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.78	95	2059020	10.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

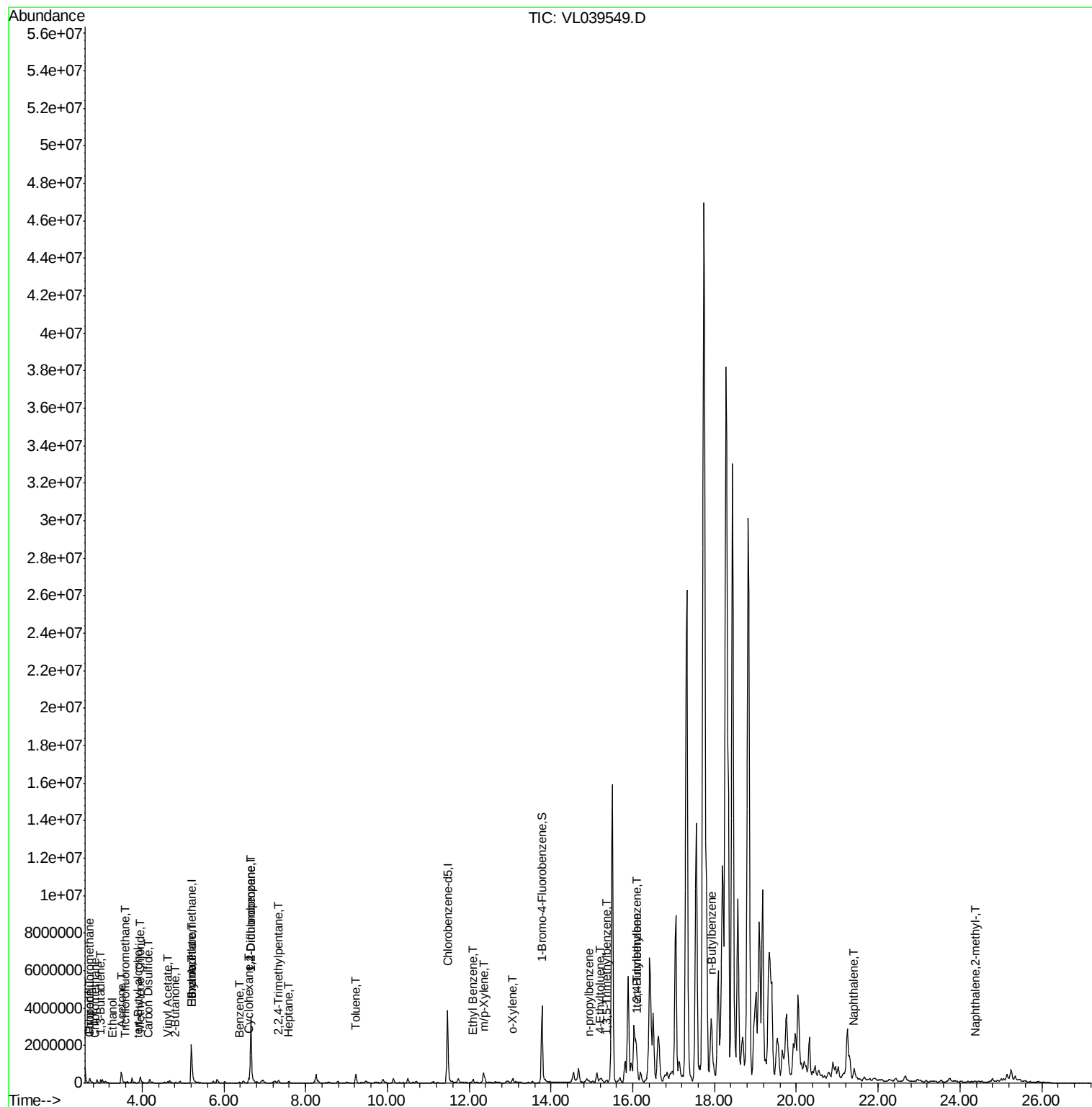
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.70	51	13505	0.101	ppbv #	77
4) Chloromethane	2.83	50	2490	0.031	ppbv #	83
9) Propene	2.72	41	86535	1.423	ppbv	93
10) Heptane	7.57	43	5807	0.041	ppbv #	28
11) Trichlorofluoromethane	3.58	101	11908	0.072	ppbv #	80
13) Ethanol	3.27	45	6511	1.488	ppbv	92
15) Acetone	3.49	43	662056	5.262	ppbv	94
16) 1,3-Butadiene	2.99	39	44488	0.681	ppbv #	24
17) tert-Butyl alcohol	3.92	59	30523	0.284	ppbv #	94
20) Methylene Chloride	3.95	84	119333	2.329	ppbv	98
23) Vinyl Acetate	4.63	43	16224	0.256	ppbv #	1
25) Ethyl Acetate	5.22	43	50979	0.190	ppbv #	81
26) Hexane	5.22	57	133065	1.209	ppbv #	40
27) Carbon Disulfide	4.14	76	12643	0.108	ppbv #	38
30) Cyclohexane	6.61	84	88834	0.972	ppbv #	100
34) 2-Butanone	4.81	43	39118	0.273	ppbv #	52
36) Benzene	6.38	78	16363	0.075	ppbv #	87
39) 1,2-Dichloropropane	6.66	63	693972	8.524	ppbv #	24
44) 2,2,4-Trimethylpentane	7.34	57	25071	0.069	ppbv #	1
53) Toluene	9.23	91	394362	1.620	ppbv	98
58) Ethyl Benzene	12.09	91	156631	0.519	ppbv	97
59) m/p-Xylene	12.38	91	130425	0.481	ppbv #	100
60) o-Xylene	13.07	91	88065	0.339	ppbv #	31
64) n-propylbenzene	14.91	120	15473	0.151	ppbv #	1
65) tert-Butylbenzene	16.10	119	18964	0.054	ppbv #	24
70) n-Butylbenzene	17.91	91	43949	0.107	ppbv #	68
72) 4-Ethyltoluene	15.20	105	135895	0.445	ppbv #	100
73) 1,3,5-Trimethylbenzene	15.35	105	37959	0.136	ppbv	94
74) 1,2,4-Trimethylbenzene	16.11	105	479766	1.542	ppbv #	67
79) Naphthalene	21.39	128	78053	0.352	ppbv #	95
80) Naphthalene,2-methyl-	24.37	142	17353	0.198	ppbv #	100

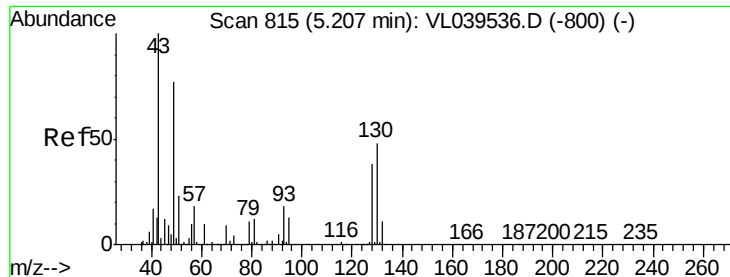
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 17 12:06:24 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.20 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 17 Aug 2022 15:37

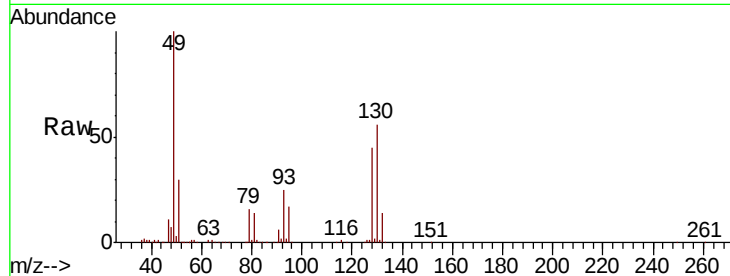
Tot Ion: 49 Resp: 1113713

Ion Ratio Lower Upper

49 100

128 48.2 25.7 77.0

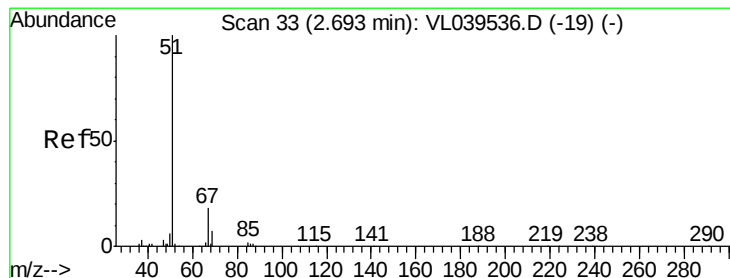
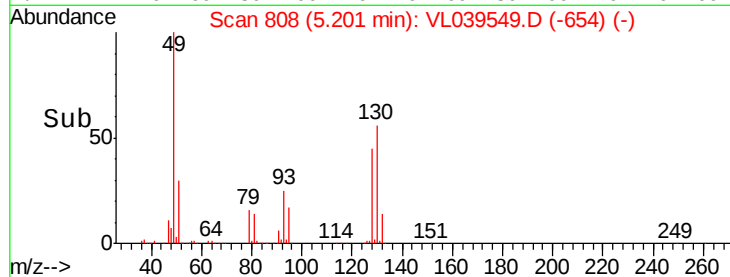
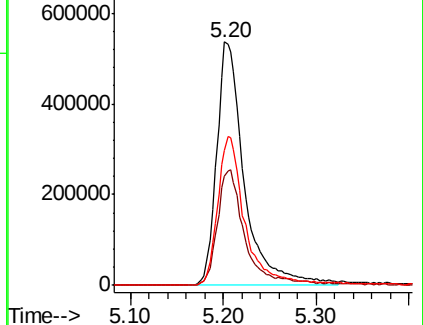
130 61.1 31.6 95.0



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



#3

Chlorodifluoromethane

Concen: 0.101 ppbv

RT: 2.70 min Scan# 29

Delta R.T. 0.00 min

Lab File: VL039549.D

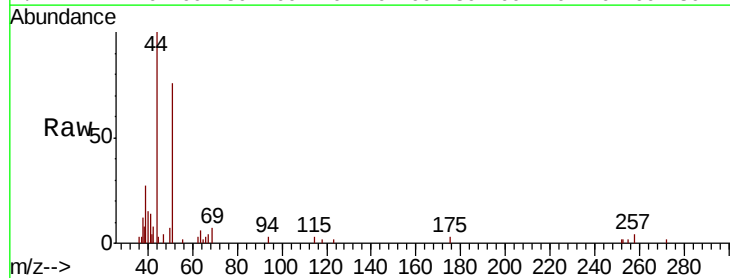
Acq: 17 Aug 2022 15:37

Tgt Ion: 51 Resp: 13505

Ion Ratio Lower Upper

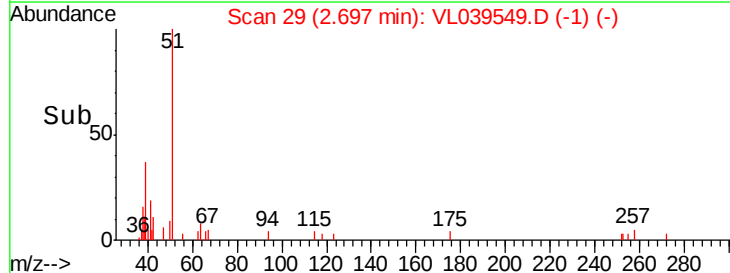
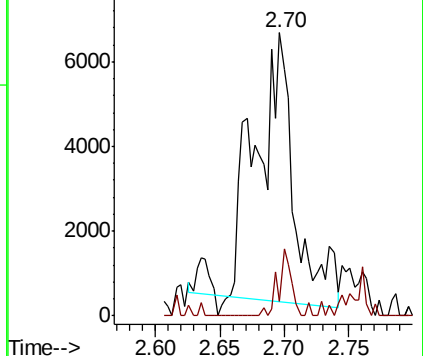
51 100

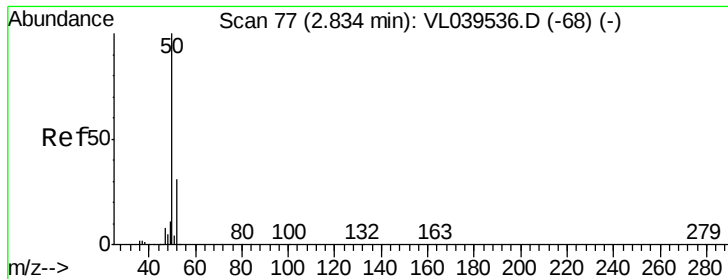
67 8.4 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.031 ppbv

RT: 2.83 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

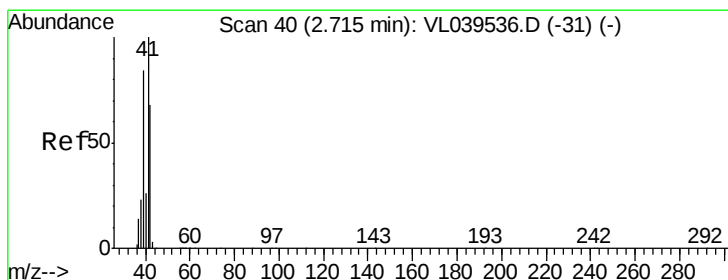
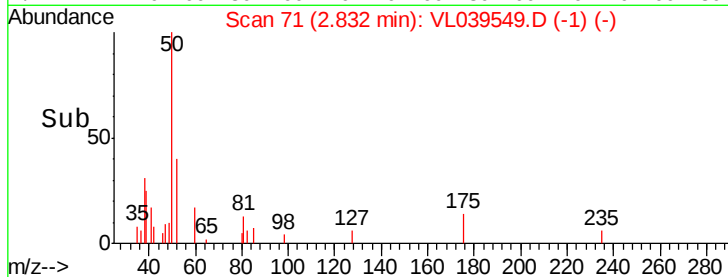
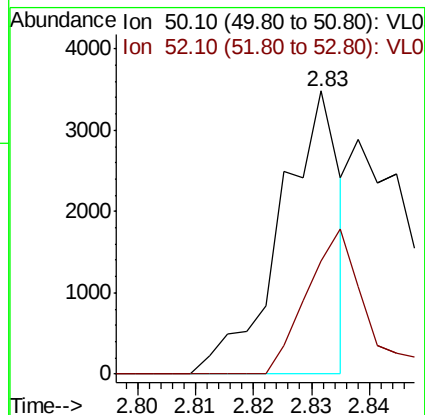
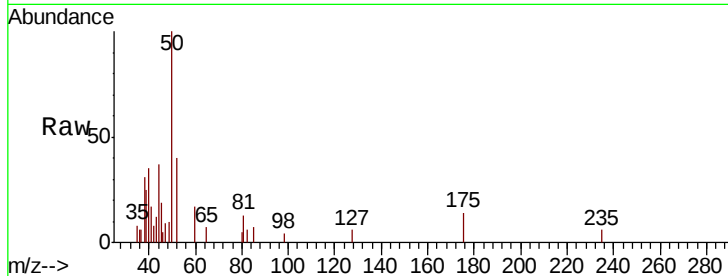
Acq: 17 Aug 2022 15:37

Tot Ion: 50 Resp: 2490

Ion Ratio Lower Upper

50 100

52 39.9 24.3 36.5#



#9

Propene

Concen: 1.423 ppbv

RT: 2.72 min Scan# 36

Delta R.T. 0.00 min

Lab File: VL039549.D

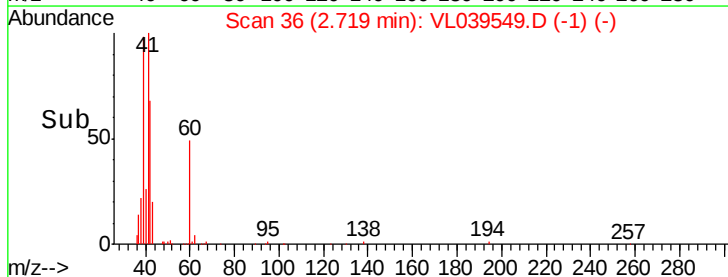
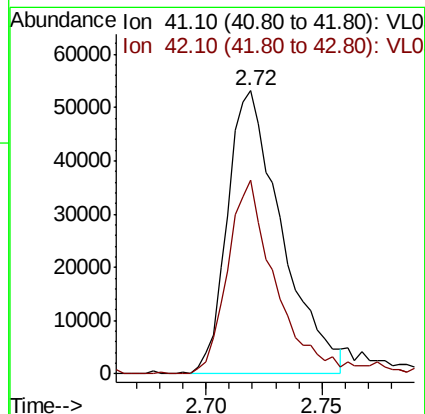
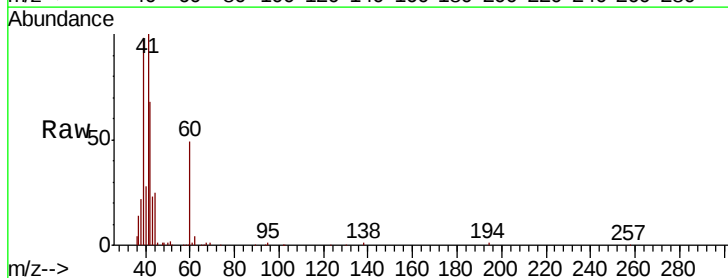
Acq: 17 Aug 2022 15:37

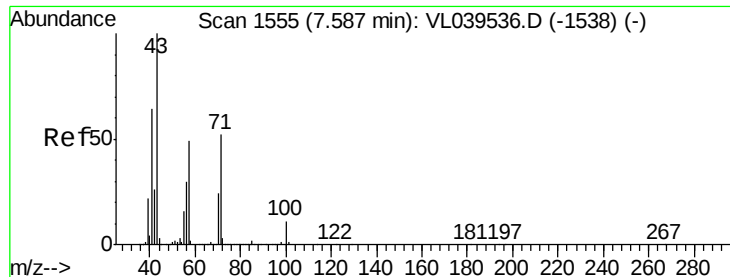
Tgt Ion: 41 Resp: 86535

Ion Ratio Lower Upper

41 100

42 63.6 55.4 83.0





#10

Heptane

Concen: 0.041 ppbv

RT: 7.57 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

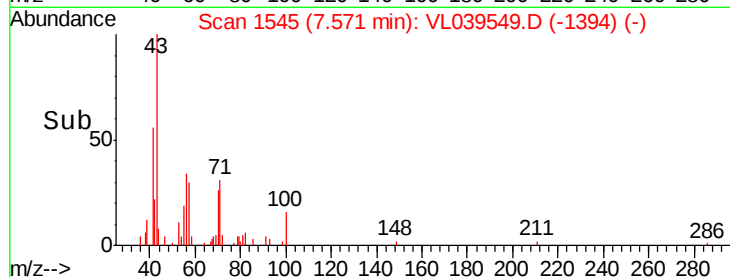
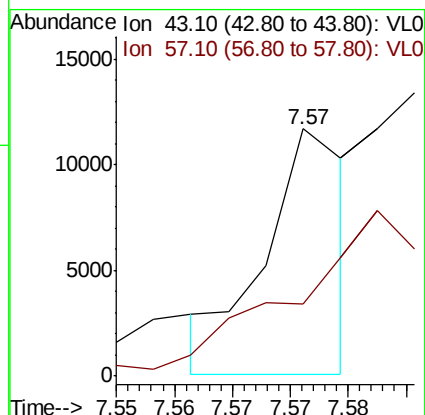
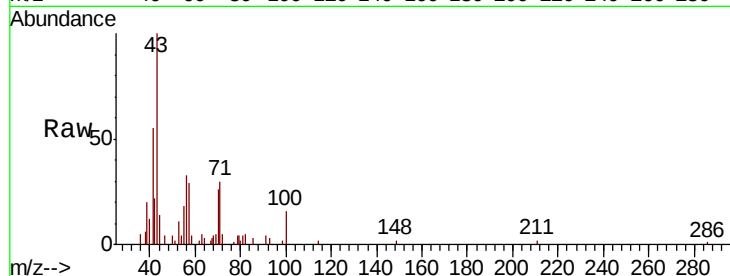
Acq: 17 Aug 2022 15:37 SV1

Tot Ion: 43 Resp: 5807

Ion Ratio Lower Upper

43 100

57 0.0 39.8 59.6#



#11

Trichlorofluoromethane

Concen: 0.072 ppbv

RT: 3.58 min Scan# 305

Delta R.T. 0.00 min

Lab File: VL039549.D

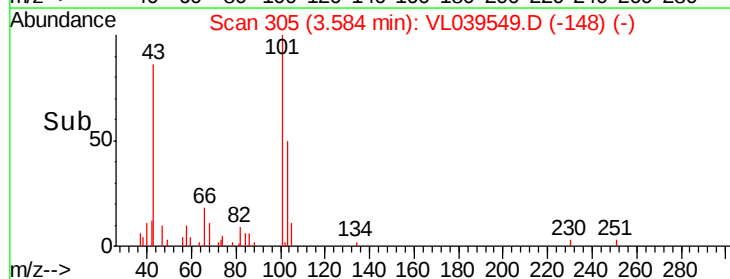
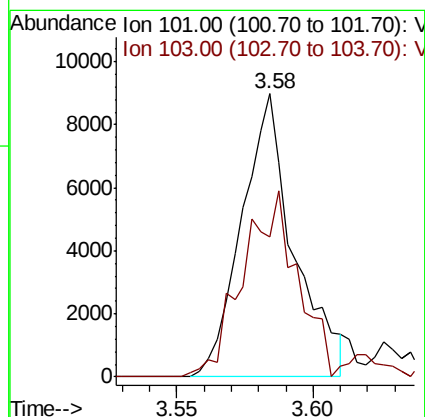
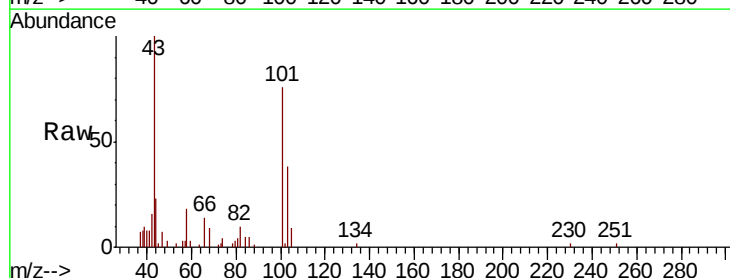
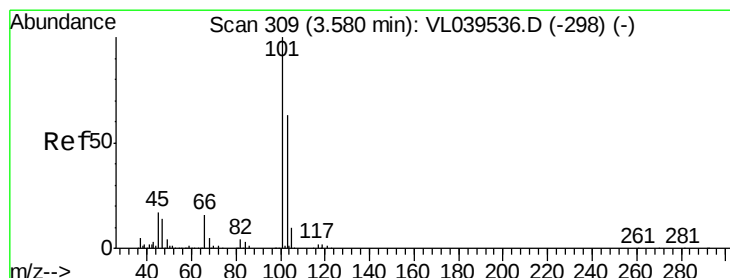
Acq: 17 Aug 2022 15:37

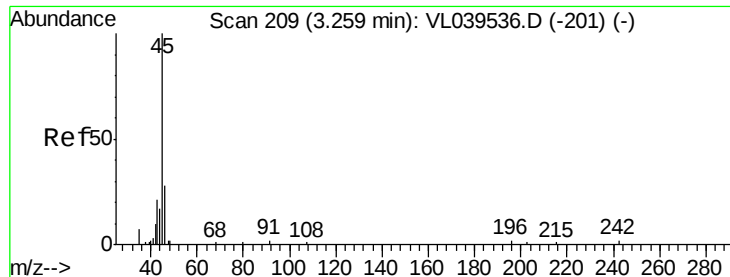
Tgt Ion: 101 Resp: 11908

Ion Ratio Lower Upper

101 100

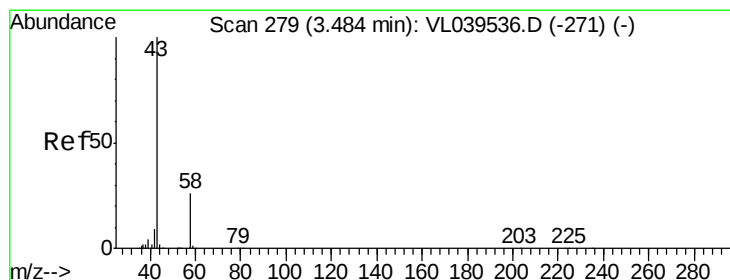
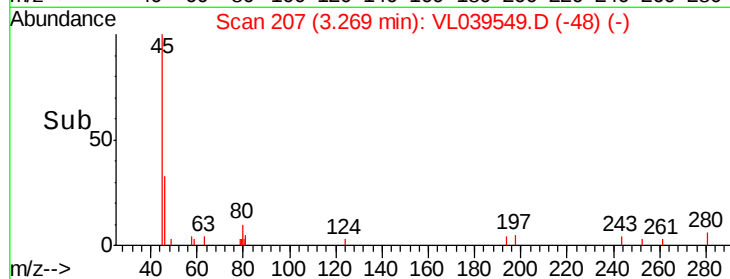
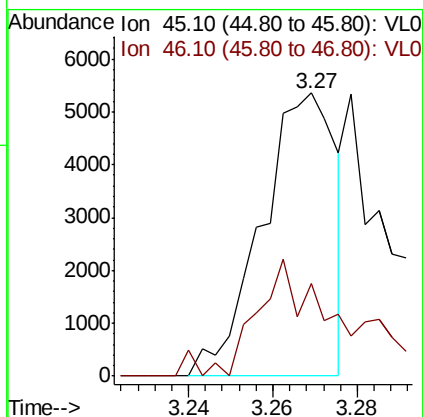
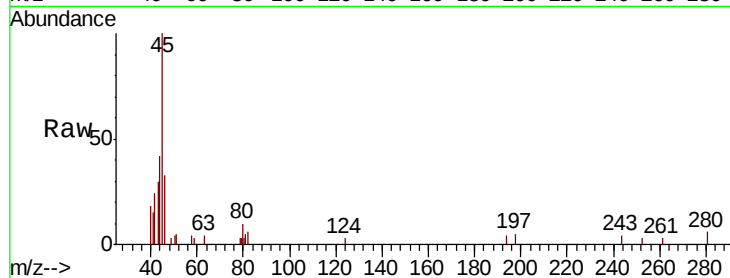
103 48.0 50.6 76.0#





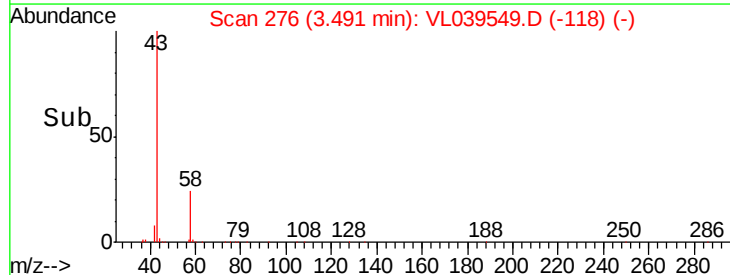
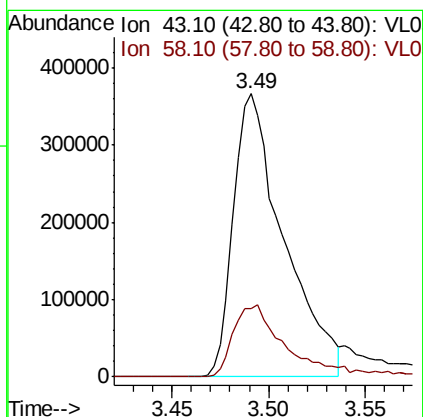
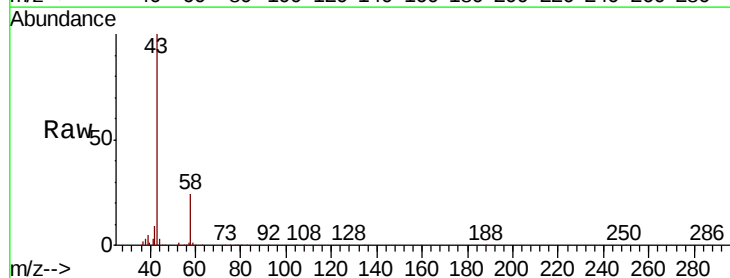
#13
Ethanol
Concen: 1.488 ppbv
RT: 3.27
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1
Acq: 17 Aug 2022 15:37

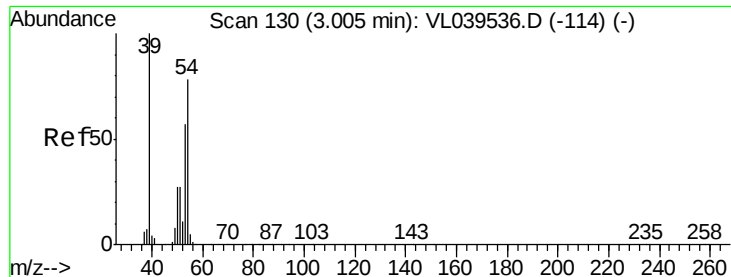
Tot Ion: 45 Resp: 6511
Ion Ratio Lower Upper
45 100
46 53.8 19.3 77.1



#15
Acetone
Concen: 5.262 ppbv
RT: 3.49 min Scan# 276
Delta R.T. 0.01 min
Lab File: VL039549.D
Acq: 17 Aug 2022 15:37

Tgt Ion: 43 Resp: 662056
Ion Ratio Lower Upper
43 100
58 28.8 20.7 31.1





#16

1,3-Butadiene

Concen: 0.681 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

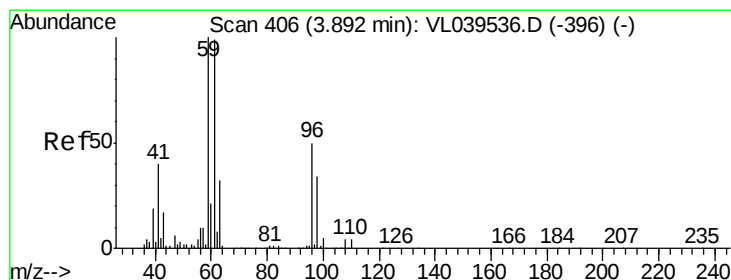
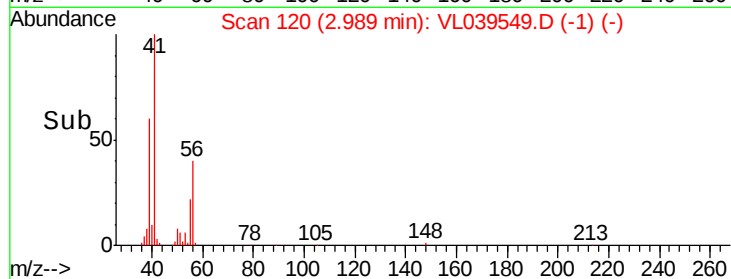
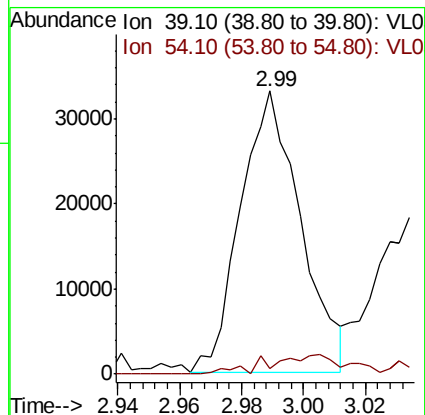
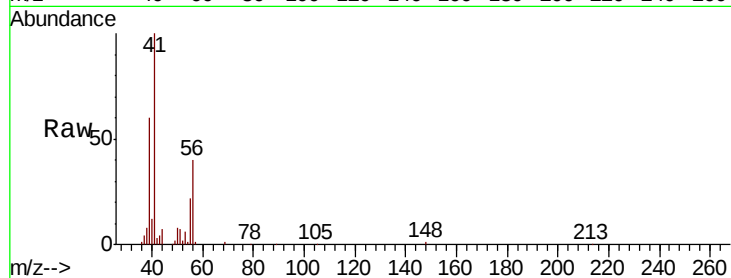
Acq: 17 Aug 2022 15:37

Tot Ion: 39 Resp: 44488

Ion Ratio Lower Upper

39 100

54 11.9 61.8 92.8#



#17

tert-Butyl alcohol

Concen: 0.284 ppbv

RT: 3.92 min Scan# 408

Delta R.T. 0.02 min

Lab File: VL039549.D

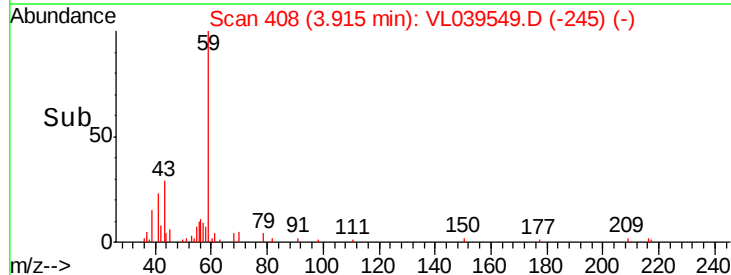
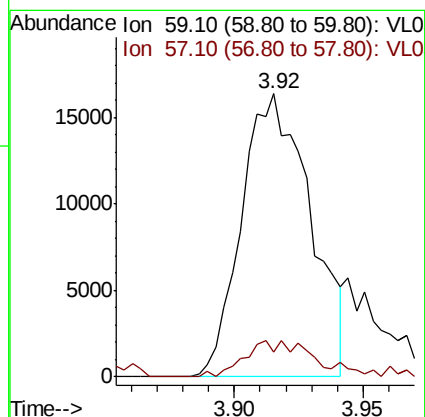
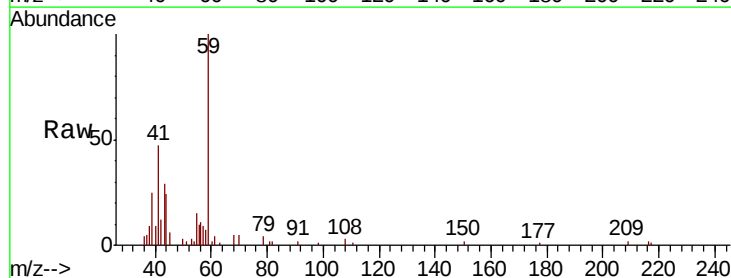
Acq: 17 Aug 2022 15:37

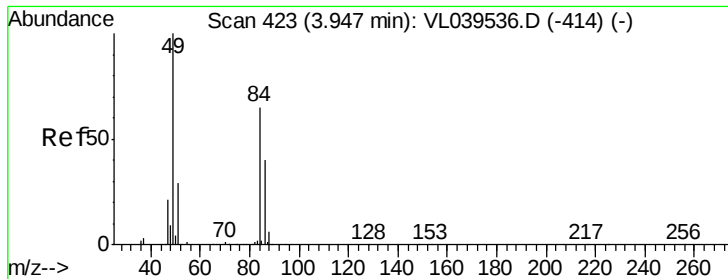
Tgt Ion: 59 Resp: 30523

Ion Ratio Lower Upper

59 100

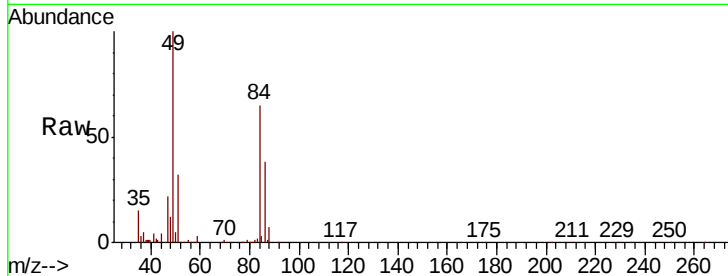
57 13.0 8.6 12.8#



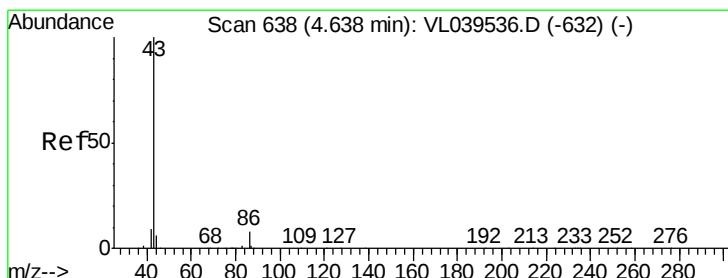
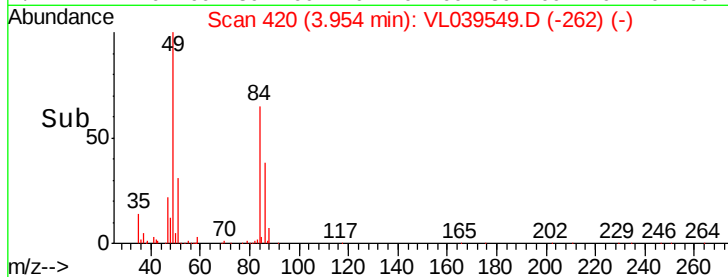
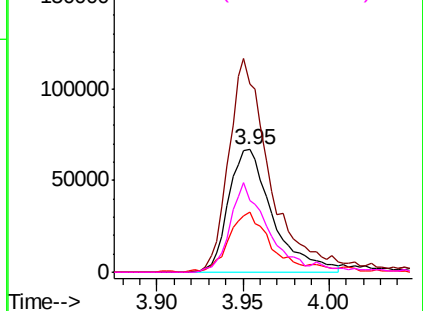


#20
Methvlene Chloride
Concen: 2.329 ppbv
RT: 3.95
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV1
Acq: 17 Aug 2022 15:37

Tot Ion:	84	Resp:	119333
Ion	Ratio	Lower	Upper
84	100		
49	153.8	122.2	183.4
51	48.5	35.8	53.6
86	58.9	48.4	72.6

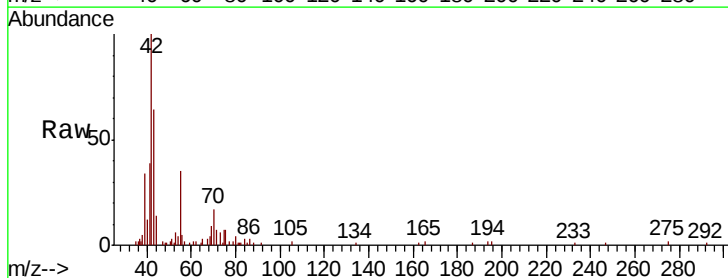


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

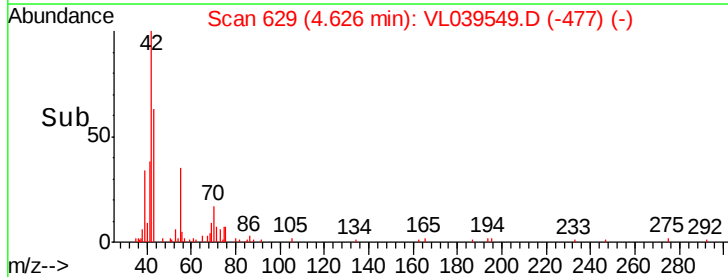
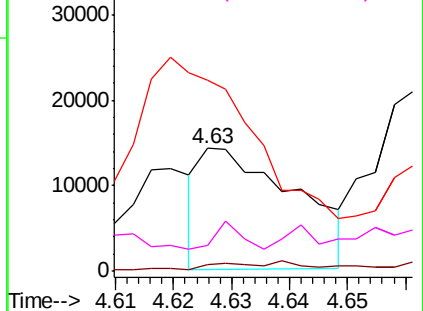


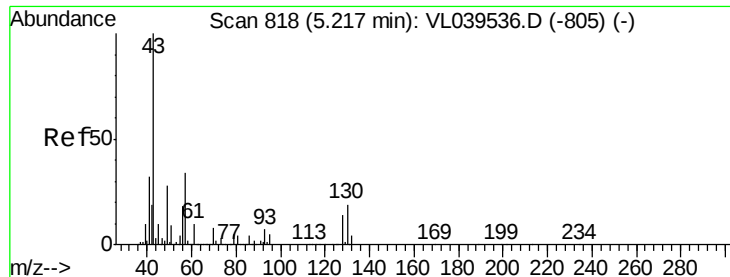
#23
Vinyl Acetate
Concen: 0.256 ppbv
RT: 4.63 min Scan# 629
Delta R.T. -0.01 min
Lab File: VL039549.D
Acq: 17 Aug 2022 15:37

Tgt Ion:	43	Resp:	16224
Ion	Ratio	Lower	Upper
43	100		
86	7.7	5.3	7.9
42	227.4	8.7	13.1#
44	2.2	5.1	7.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





#25

Ethyl Acetate

Concen: 0.190 ppbv

RT: 5.22 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 17 Aug 2022 15:37

Tot Ion: 43 Resp: 50979

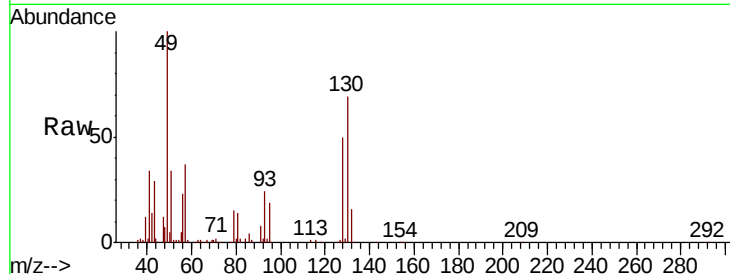
Ion Ratio Lower Upper

43 100

45 3.6 8.2 12.4#

61 0.0 8.6 12.8#

70 4.4 5.7 8.5#

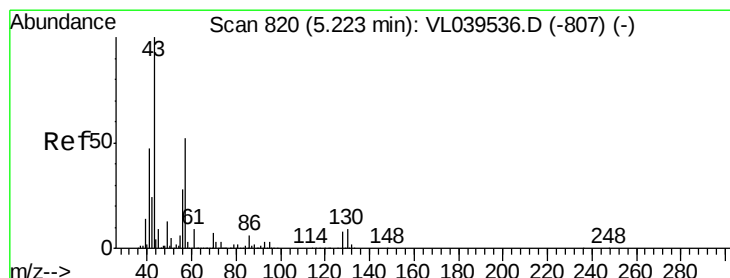
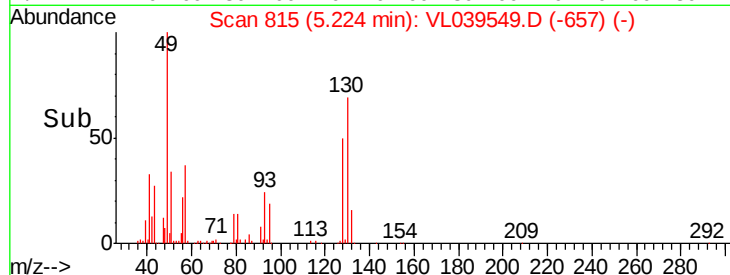
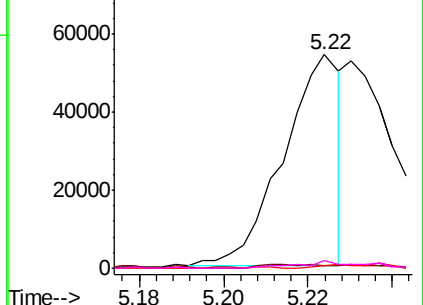


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.209 ppbv

RT: 5.22 min Scan# 815

Delta R.T. 0.00 min

Lab File: VL039549.D

Acq: 17 Aug 2022 15:37

Tgt Ion: 57 Resp: 133065

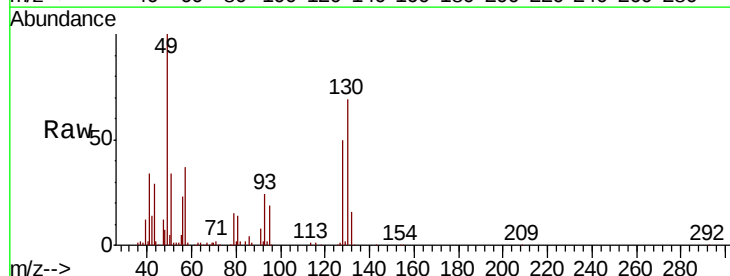
Ion Ratio Lower Upper

57 100

41 100.4 79.4 119.2

43 84.6 199.7 299.5#

56 59.6 44.0 66.0

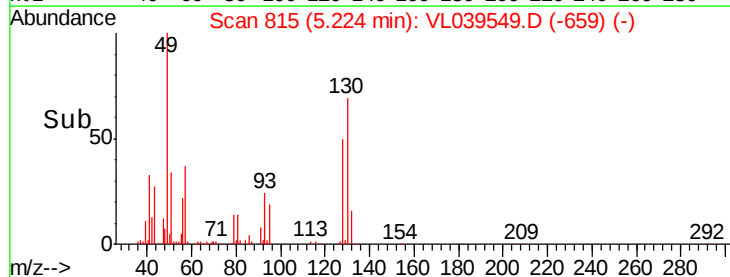
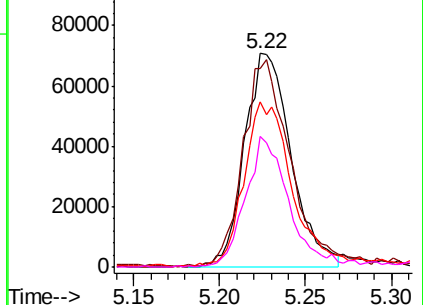


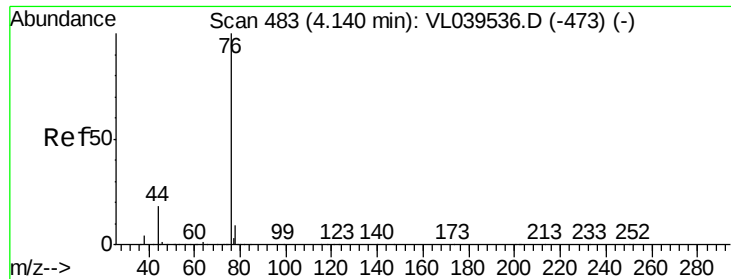
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

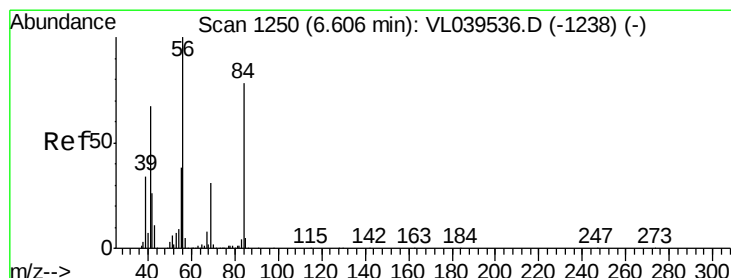
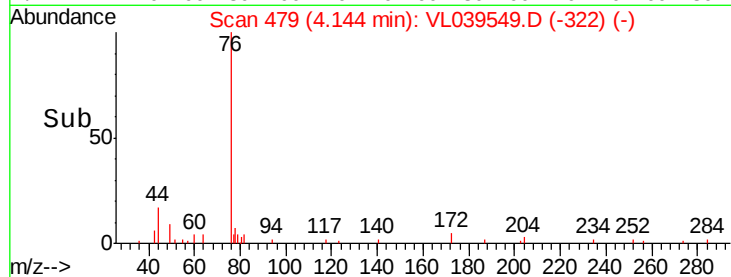
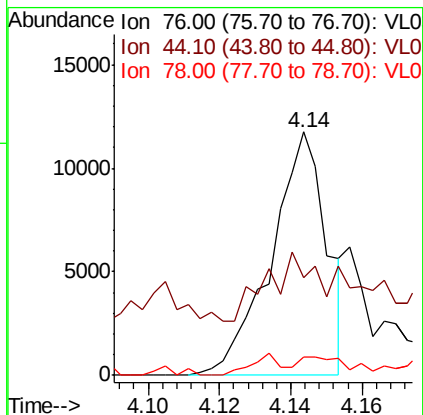
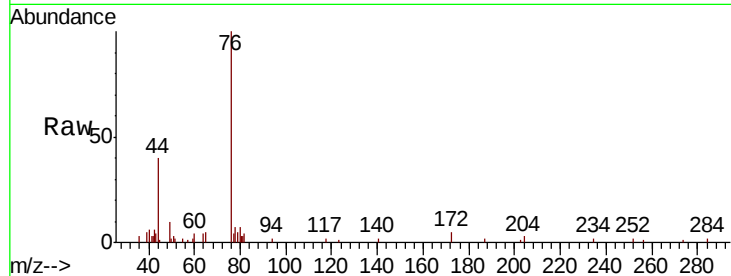
Ion 56.10 (55.80 to 56.80): VL0





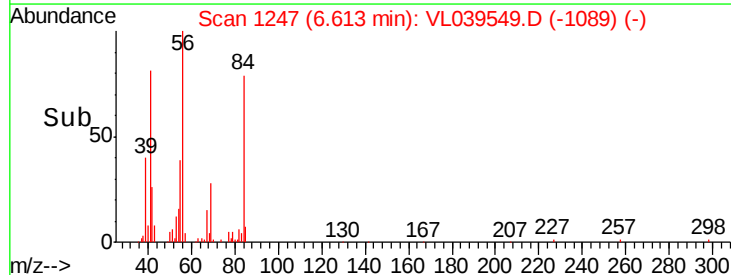
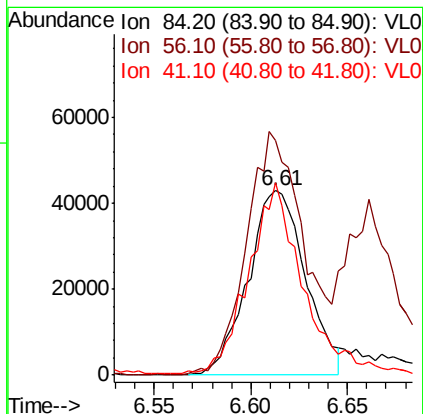
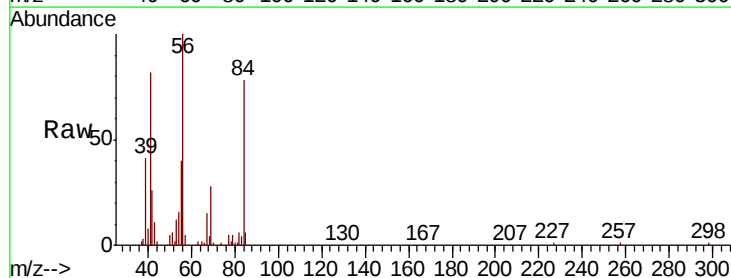
#27
Carbon Disulfide
Concen: 0.108 ppbv
RT: 4.14 Instrument: MSVOA_1
Delta R.T.: ClientSampleId:
Lab File: SV1
Acq: 17 Aug 2022 15:37

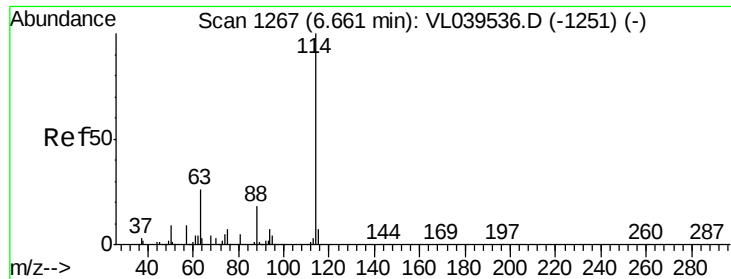
Tot Ion	76	Resp	12643
Ion Ratio	Lower	Upper	
76	100		
44	62.7	16.3	24.5#
78	10.2	7.8	11.6



#30
Cyclohexane
Concen: 0.972 ppbv
RT: 6.61 min Scan# 1247
Delta R.T.: 0.01 min
Lab File: VL039549.D
Acq: 17 Aug 2022 15:37

Tgt Ion	84	Resp	88834
Ion Ratio	Lower	Upper	
84	100		
56	128.7	0.0	0.0#
41	98.5	0.0	0.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.66 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: SV1

Acq: 17 Aug 2022 15:37

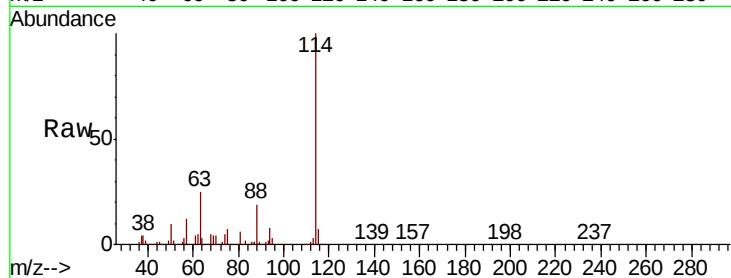
Tot Ion:114 Resp: 2850381

Ion Ratio Lower Upper

114 100

63 25.1 20.6 31.0

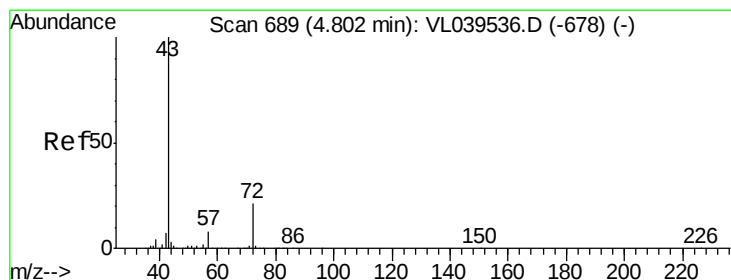
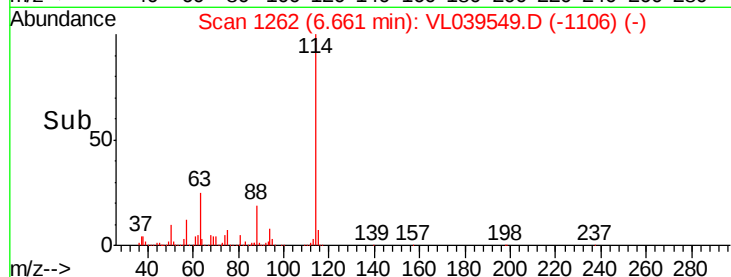
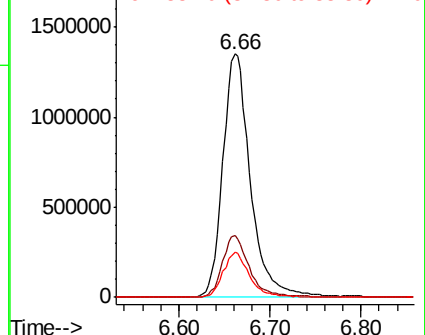
88 18.1 14.6 22.0



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: 0.273 ppbv

RT: 4.81 min Scan# 687

Delta R.T. 0.01 min

Lab File: VL039549.D

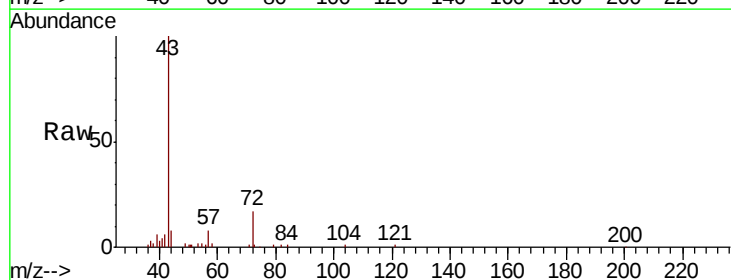
Acq: 17 Aug 2022 15:37

Tgt Ion: 43 Resp: 39118

Ion Ratio Lower Upper

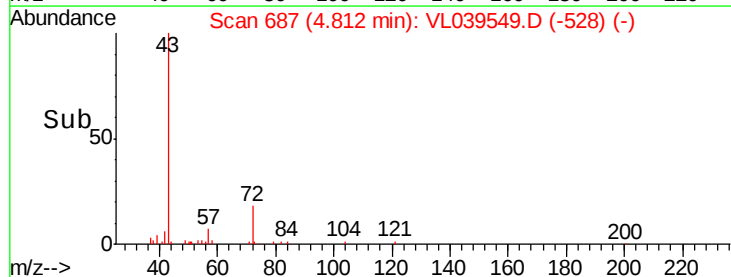
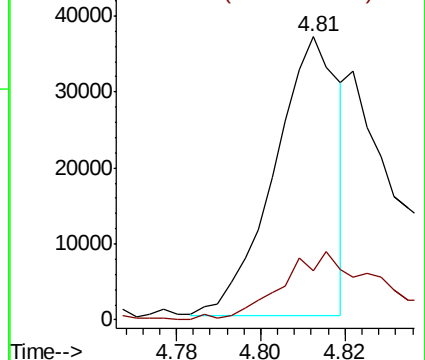
43 100

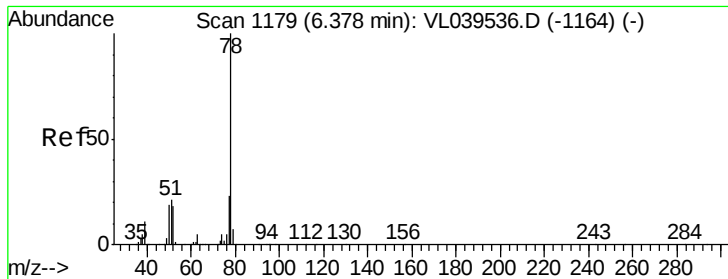
72 44.7 17.4 26.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

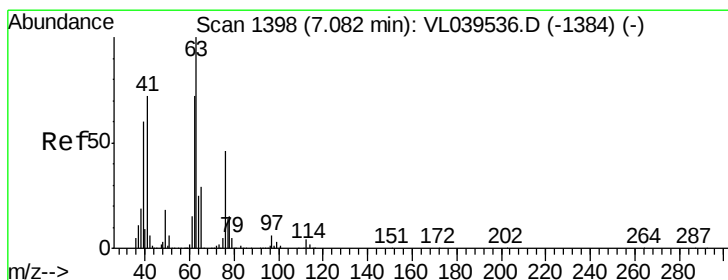
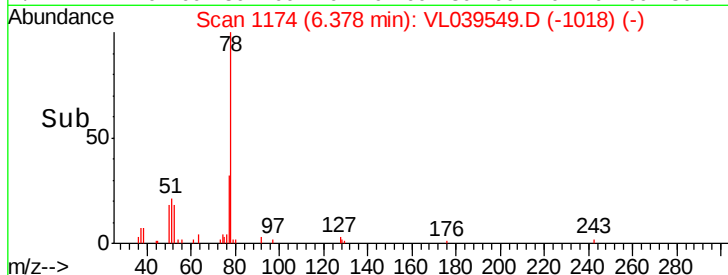
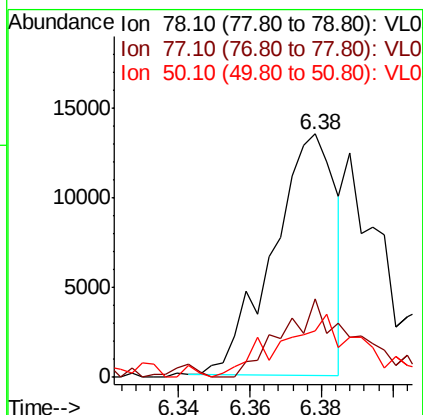
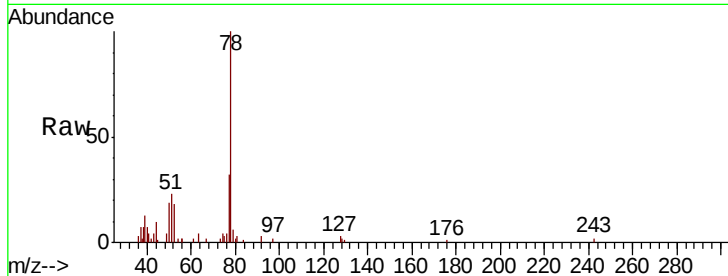
Ion 72.10 (71.80 to 72.80): VL0





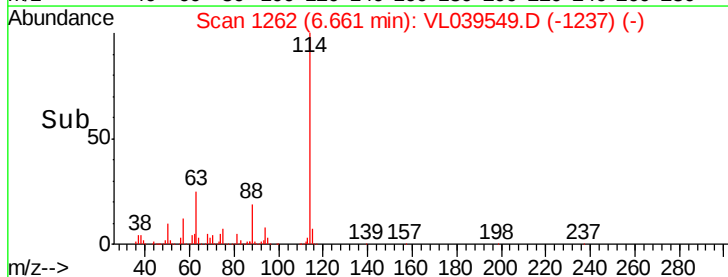
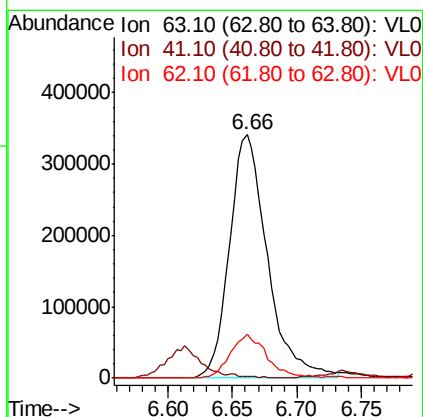
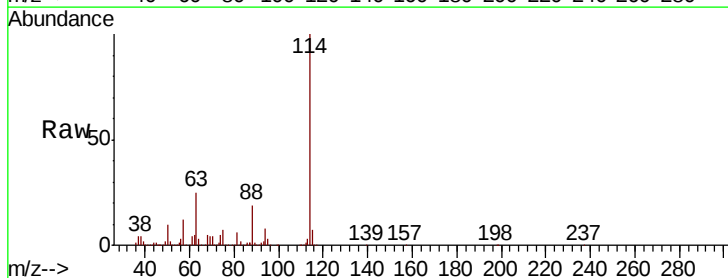
#36
Benzene
Concen: 0.075 ppbv
RT: 6.38
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 17 Aug 2022 15:37

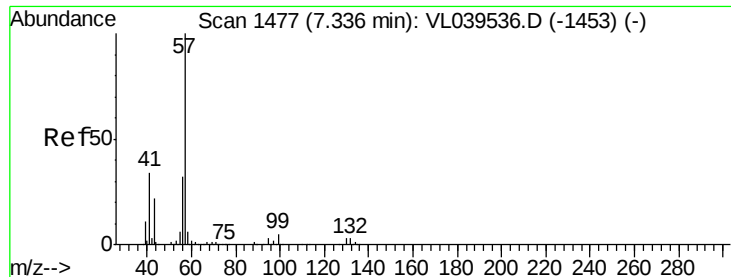
Tot Ion	Ratio	Lower	Upper
78	100		
77	27.2	18.6	27.8
50	9.8	15.0	22.4



#39
1,2-Dichloropropane
Concen: 8.524 ppbv
RT: 6.66 min Scan# 1262
Delta R.T. -0.42 min
Lab File: VL039549.D
Acq: 17 Aug 2022 15:37

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	58.0	87.0
62	18.2	57.8	86.8





#44

2,2,4-Trimethylpentane

Concen: 0.069 ppbv

RT: 7.34 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 17 Aug 2022 15:37 SV1

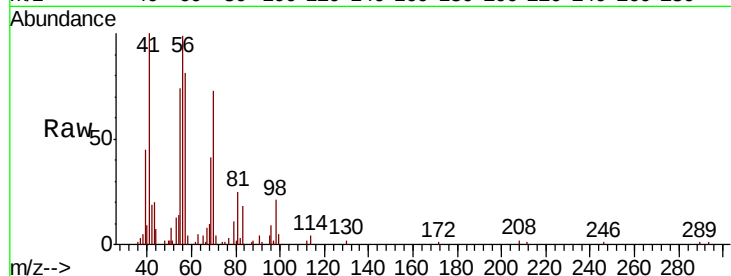
Tot Ion: 57 Resp: 25071

Ion Ratio Lower Upper

57 100

41 176.6 27.8 41.6#

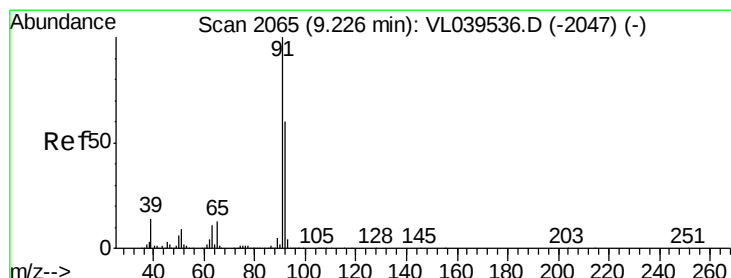
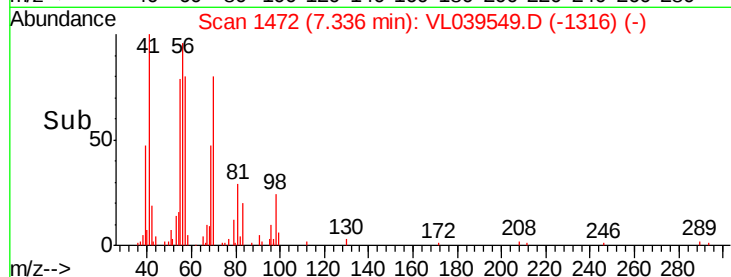
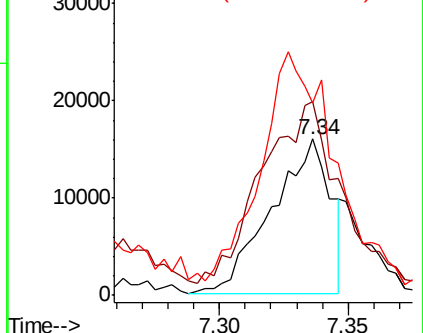
56 220.2 25.5 38.3#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#53

Toluene

Concen: 1.620 ppbv

RT: 9.23 min Scan# 2060

Delta R.T. 0.00 min

Lab File: VL039549.D

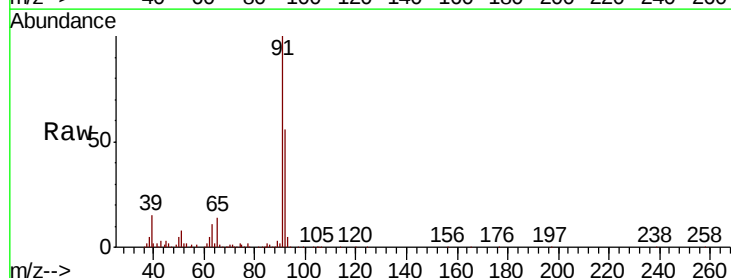
Acq: 17 Aug 2022 15:37

Tgt Ion: 91 Resp: 394362

Ion Ratio Lower Upper

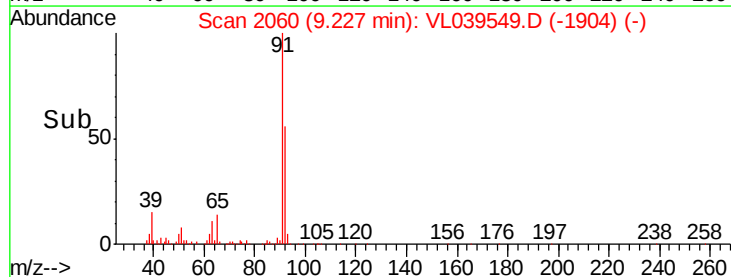
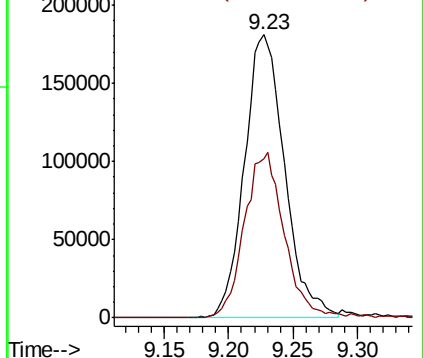
91 100

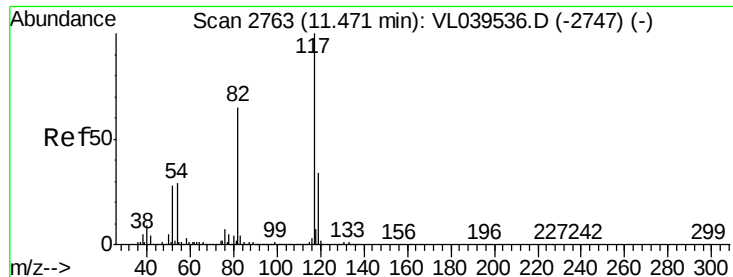
92 58.4 47.9 71.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

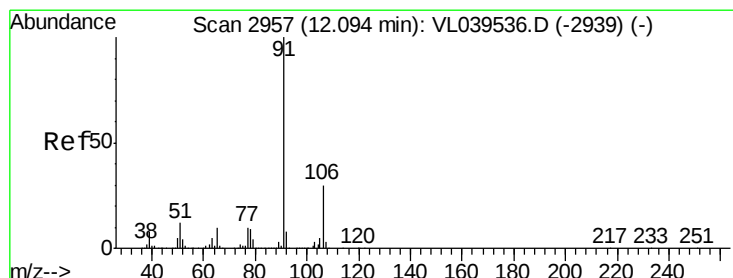
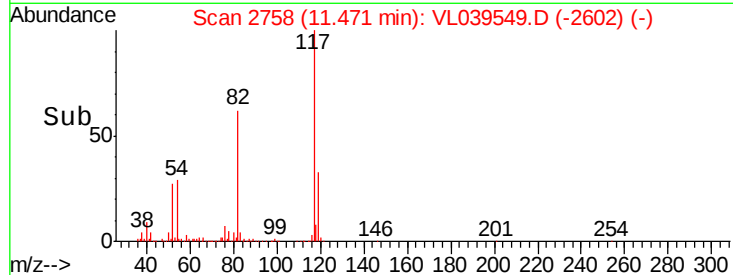
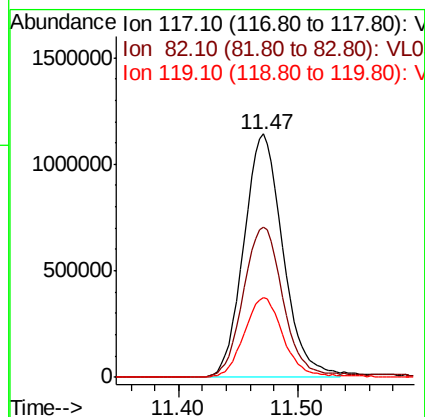
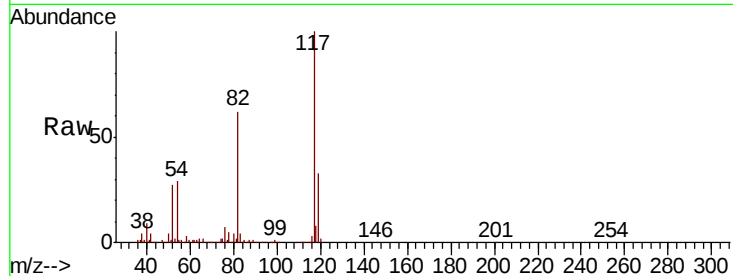




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.47 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV1
Acq: 17 Aug 2022 15:37

Tot Ion:117 Resp: 2604938

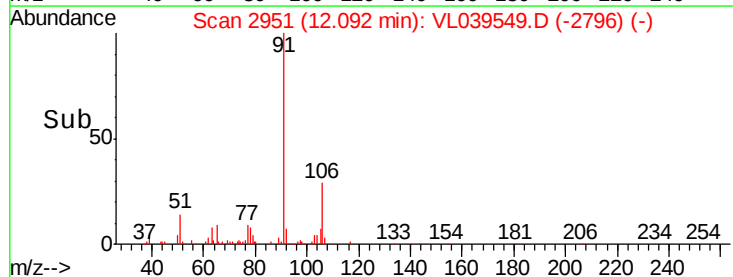
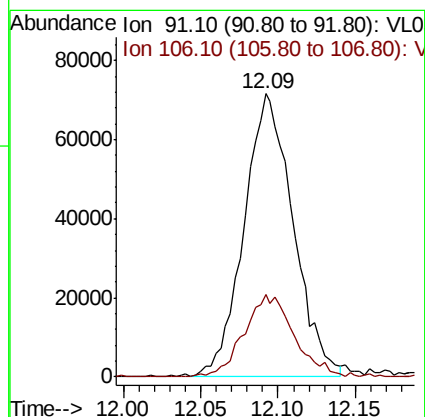
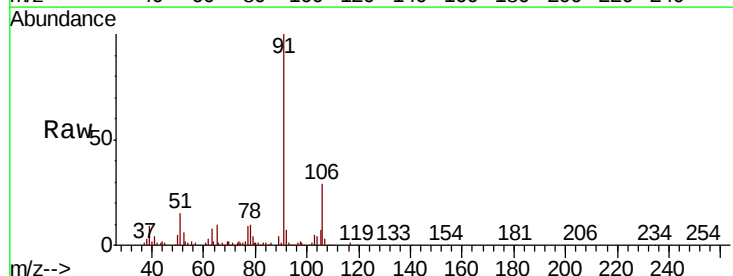
Ion	Ratio	Lower	Upper
117	100		
82	63.2	49.1	73.7
119	33.2	25.9	38.9

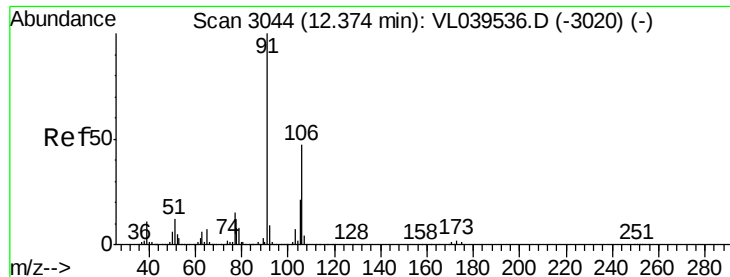


#58
Ethyl Benzene
Concen: 0.519 ppbv
RT: 12.09 min Scan# 2951
Delta R.T.: -0.00 min
Lab File: VL039549.D
Acq: 17 Aug 2022 15:37

Tgt Ion: 91 Resp: 156631

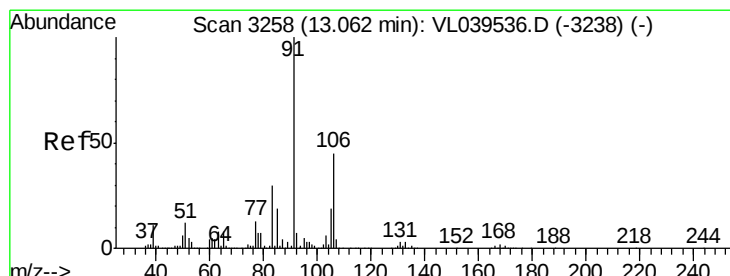
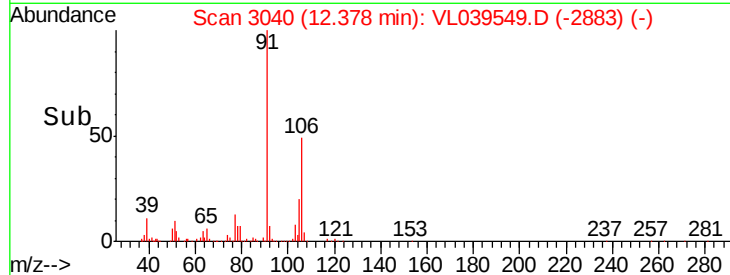
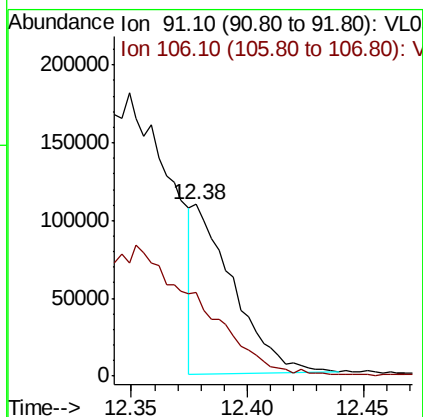
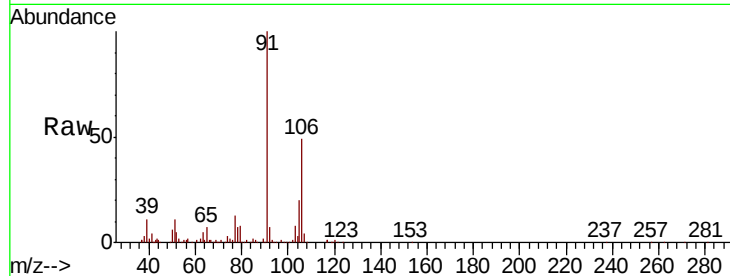
Ion	Ratio	Lower	Upper
91	100		
106	28.8	24.2	36.4





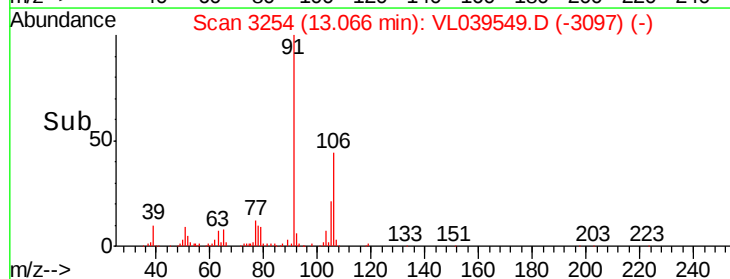
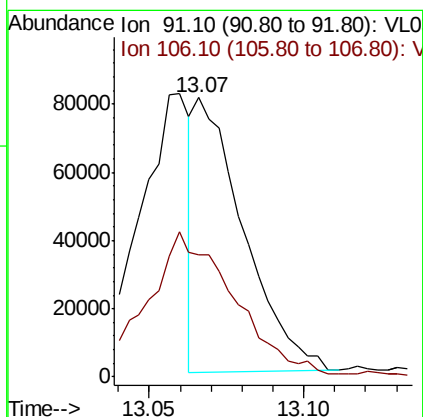
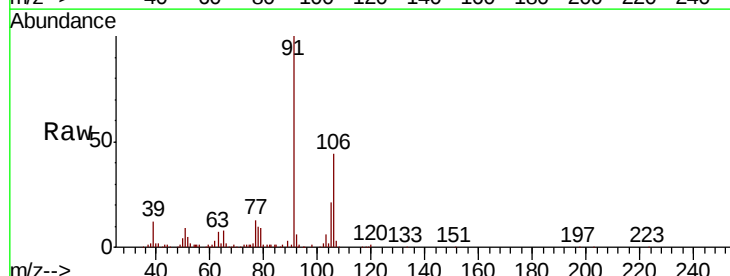
#59
m/p-Xylene
Concen: 0.481 ppbv
RT: 12.38
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV1
Acq: 17 Aug 2022 15:37

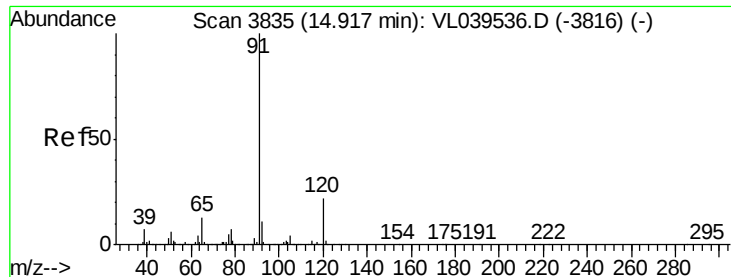
Tot Ion: 91 Resp: 130425
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#60
o-Xylene
Concen: 0.339 ppbv
RT: 13.07 min Scan# 3254
Delta R.T. 0.00 min
Lab File: VL039549.D
Acq: 17 Aug 2022 15:37

Tgt Ion: 91 Resp: 88065
Ion Ratio Lower Upper
91 100
106 0.0 22.7 68.0#





#64

n-propylbenzene

Concen: 0.151 ppbv

RT: 14.91 min

Delta R.T. MSVOA_L

Lab File: SV1

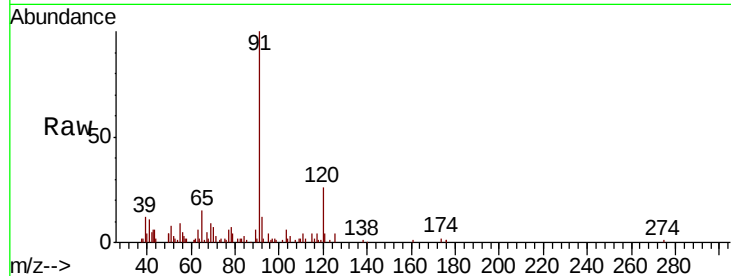
Acq: 17 Aug 2022 15:37

Tot Ion:120 Resp: 15473

Ion Ratio Lower Upper

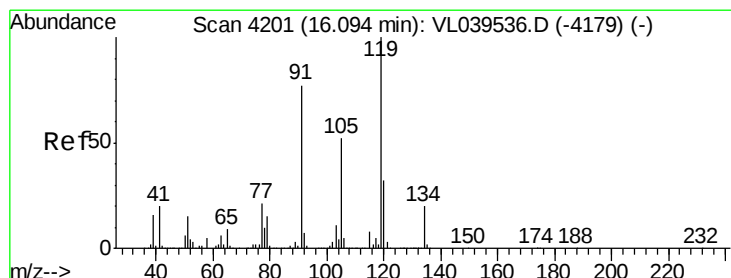
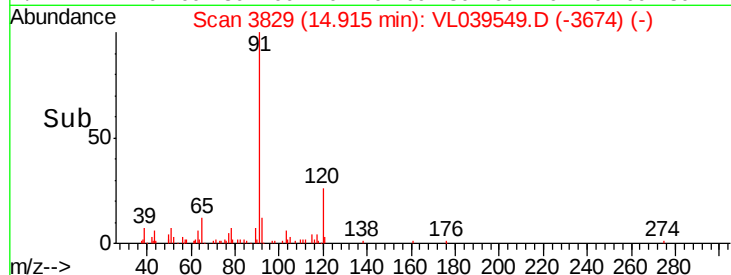
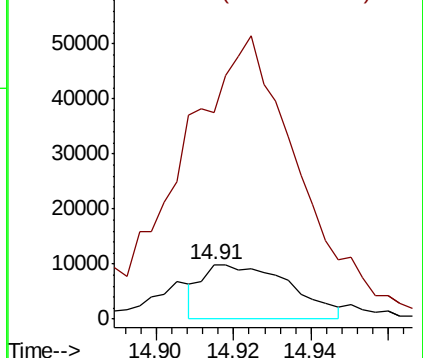
120 100

91 728.3 372.6 559.0#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.054 ppbv

RT: 16.10 min Scan# 4199

Delta R.T. 0.01 min

Lab File: VL039549.D

Acq: 17 Aug 2022 15:37

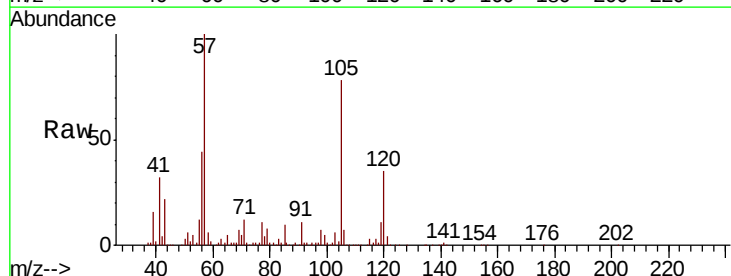
Tgt Ion:119 Resp: 18964

Ion Ratio Lower Upper

119 100

91 0.0 63.8 95.8#

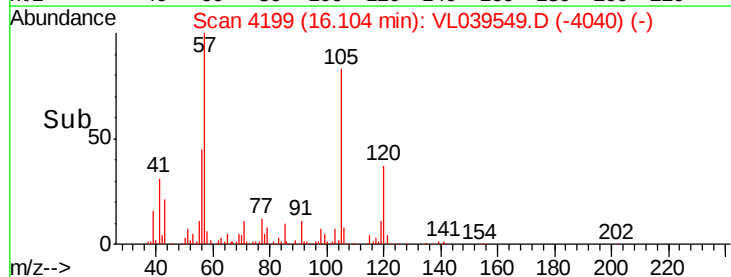
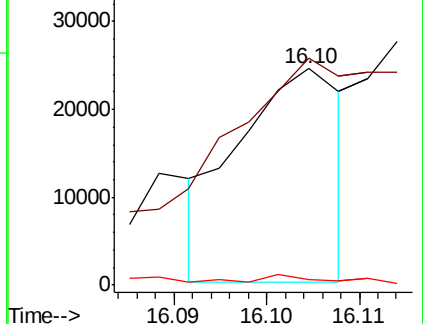
134 11.3 15.4 23.2#

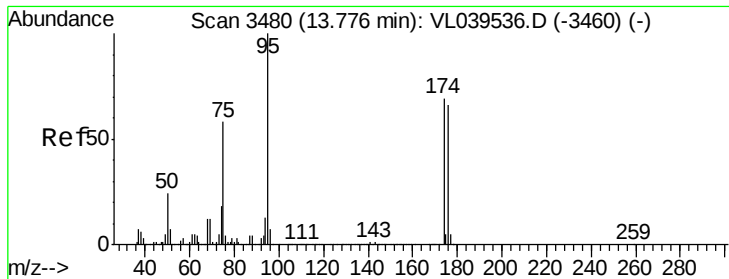


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

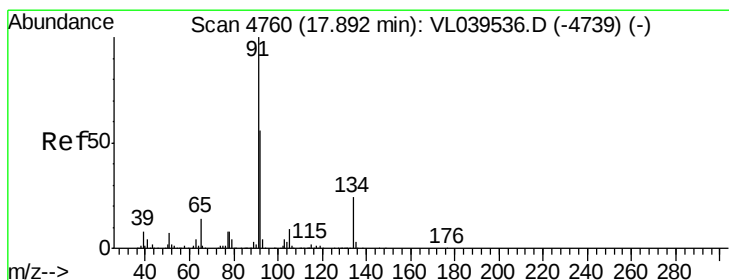
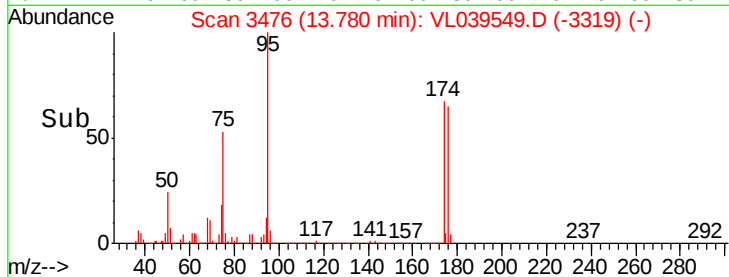
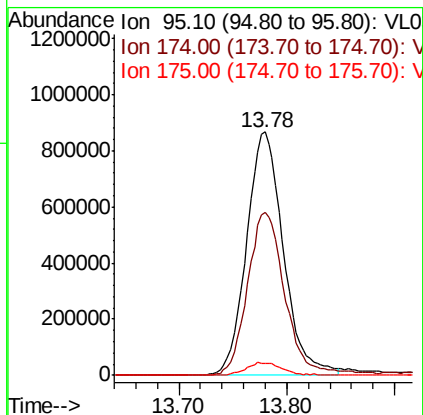
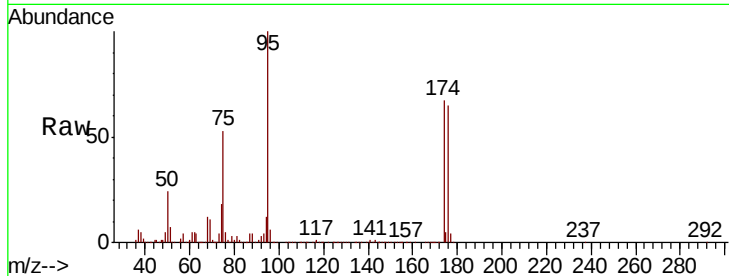
Ion 134.20 (133.90 to 134.90): V





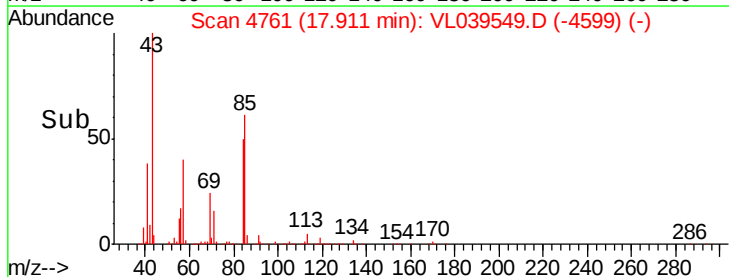
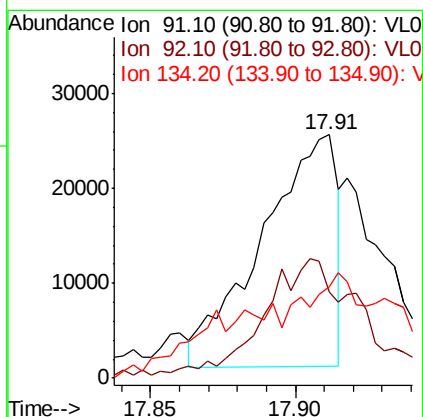
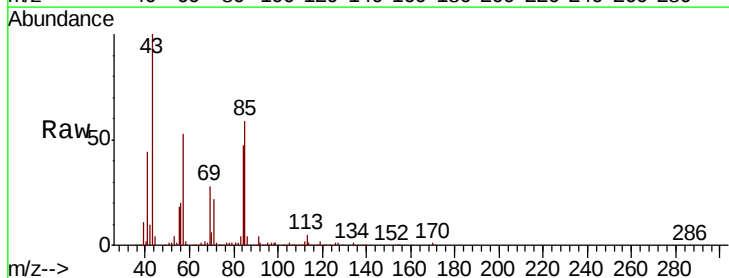
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.500 ppbv
 RT: 13.78 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1
 Acq: 17 Aug 2022 15:37

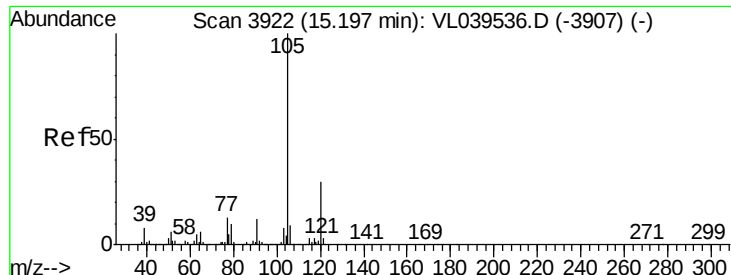
Tot Ion: 95 Resp: 2059020
 Ion Ratio Lower Upper
 95 100
 174 68.8 56.3 84.5
 175 5.4 4.3 6.5



#70
 n-Butylbenzene
 Concen: 0.107 ppbv
 RT: 17.91 min Scan# 4761
 Delta R.T. 0.02 min
 Lab File: VL039549.D
 Acq: 17 Aug 2022 15:37

Tgt Ion: 91 Resp: 43949
 Ion Ratio Lower Upper
 91 100
 92 72.4 43.0 64.6#
 134 0.0 18.1 27.1#





#72

4-Ethyltoluene

Concen: 0.445 ppbv

RT: 15.20

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 17 Aug 2022 15:37

Tot Ion:105 Resp: 135895

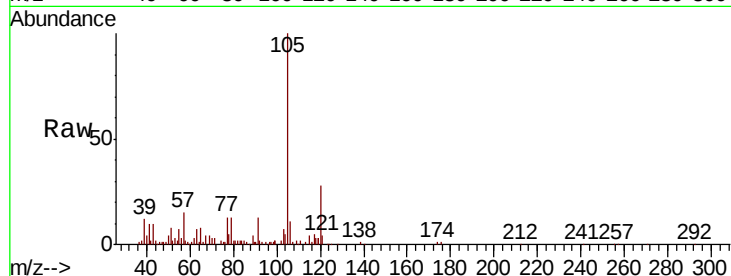
Ion Ratio Lower Upper

105 100

120 32.9 0.0 0.0#

91 15.8 0.0 0.0#

77 19.9 0.0 0.0#

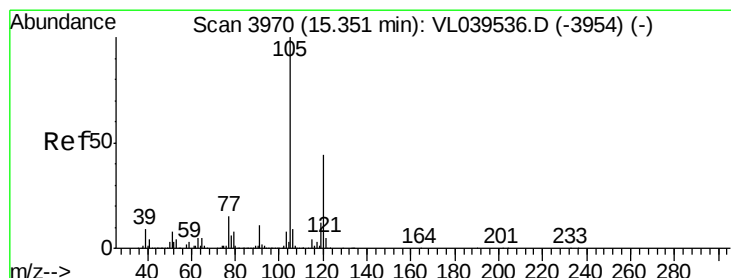
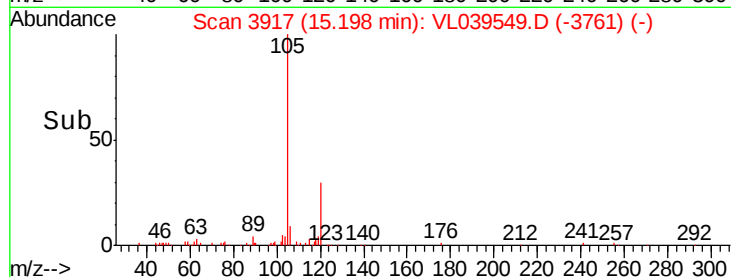
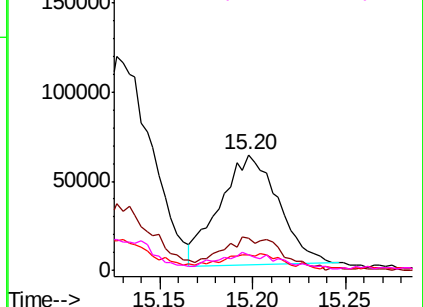


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 0.136 ppbv

RT: 15.35 min Scan# 3964

Delta R.T. -0.00 min

Lab File: VL039549.D

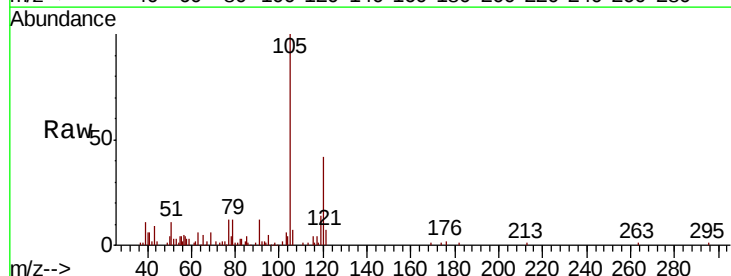
Acq: 17 Aug 2022 15:37

Tgt Ion:105 Resp: 37959

Ion Ratio Lower Upper

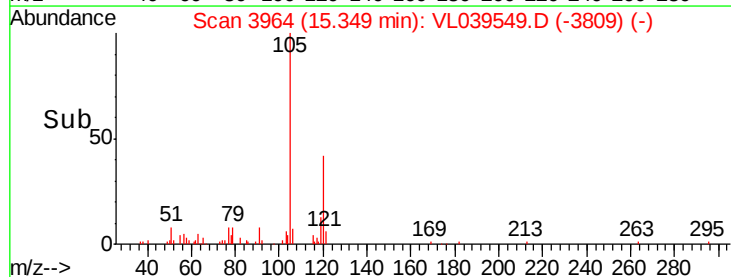
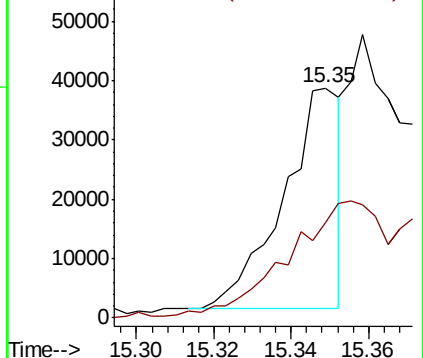
105 100

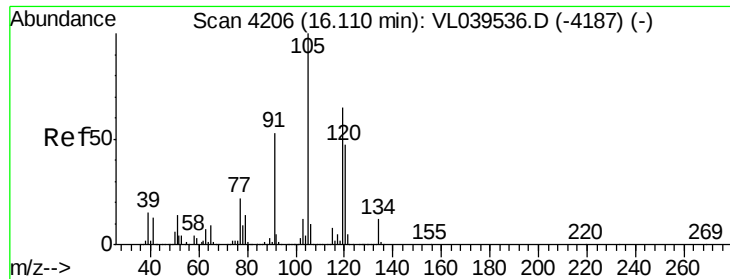
120 40.4 35.4 53.2



Abundance Ion 105.10 (104.80 to 105.80): V

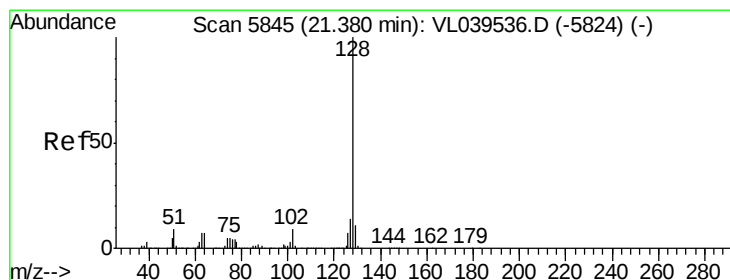
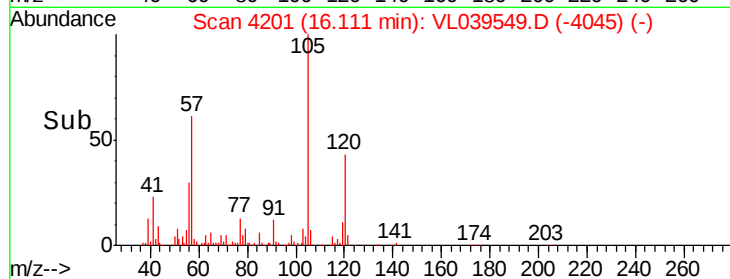
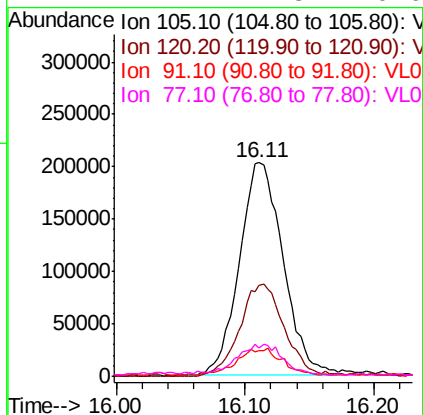
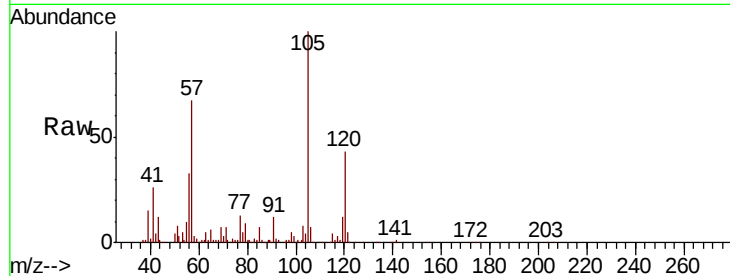
Ion 120.20 (119.90 to 120.90): V





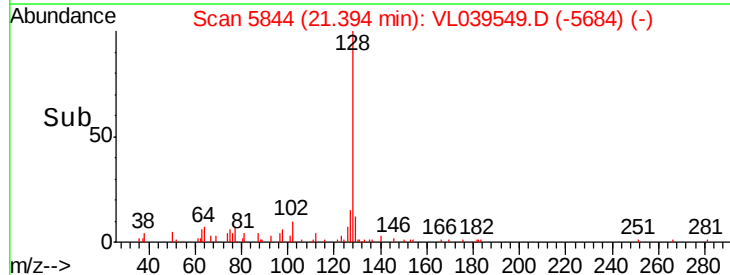
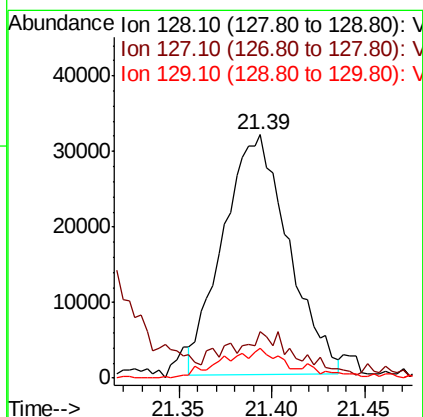
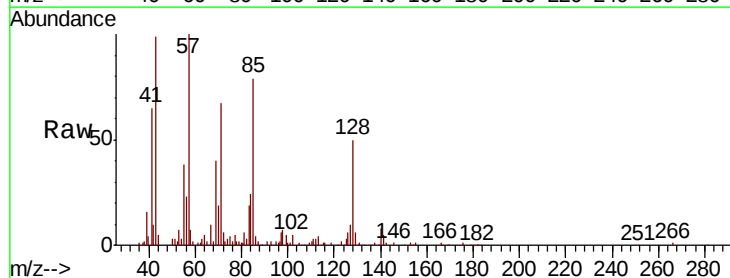
#74
 1,2,4-Trimethylbenzene
 Concen: 1.542 ppbv
 RT: 16.11 min
 Delta R.T. 0.01 min
 Lab File: VL039549.D
 Acq: 17 Aug 2022 15:37

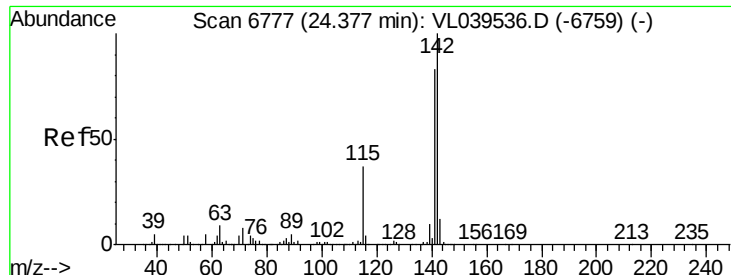
Tot Ion:	105	Resp:	479766
Ion	Ratio	Lower	Upper
105	100		
120	42.7	37.8	56.8
91	11.2	43.8	65.6#
77	12.2	17.8	26.6#



#79
 Naphthalene
 Concen: 0.352 ppbv
 RT: 21.39 min Scan# 5844
 Delta R.T. 0.01 min
 Lab File: VL039549.D
 Acq: 17 Aug 2022 15:37

Tgt Ion:	128	Resp:	78053
Ion	Ratio	Lower	Upper
128	100		
127	16.8	10.8	16.2#
129	11.7	9.1	13.7





#80
 Naphthalene, 2-methyl-
 Concen: 0.198 ppbv
 RT: 24.37
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 SV1
 Acq: 17 Aug 2022 15:37

Tot Ion	Ratio	Lower	Upper
142	100		
141	114.8	0.0	0.0#
115	53.1	0.0	0.0#

