

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092821\
 Data File : VL037713.D
 Acq On : 28 Sep 2021 21:55
 Operator : SY/AP
 Sample : M3948-03DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 29 03:42:15 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Sep 16 13:42:46 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1369959	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4133772	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3564538	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2578702	10.01	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

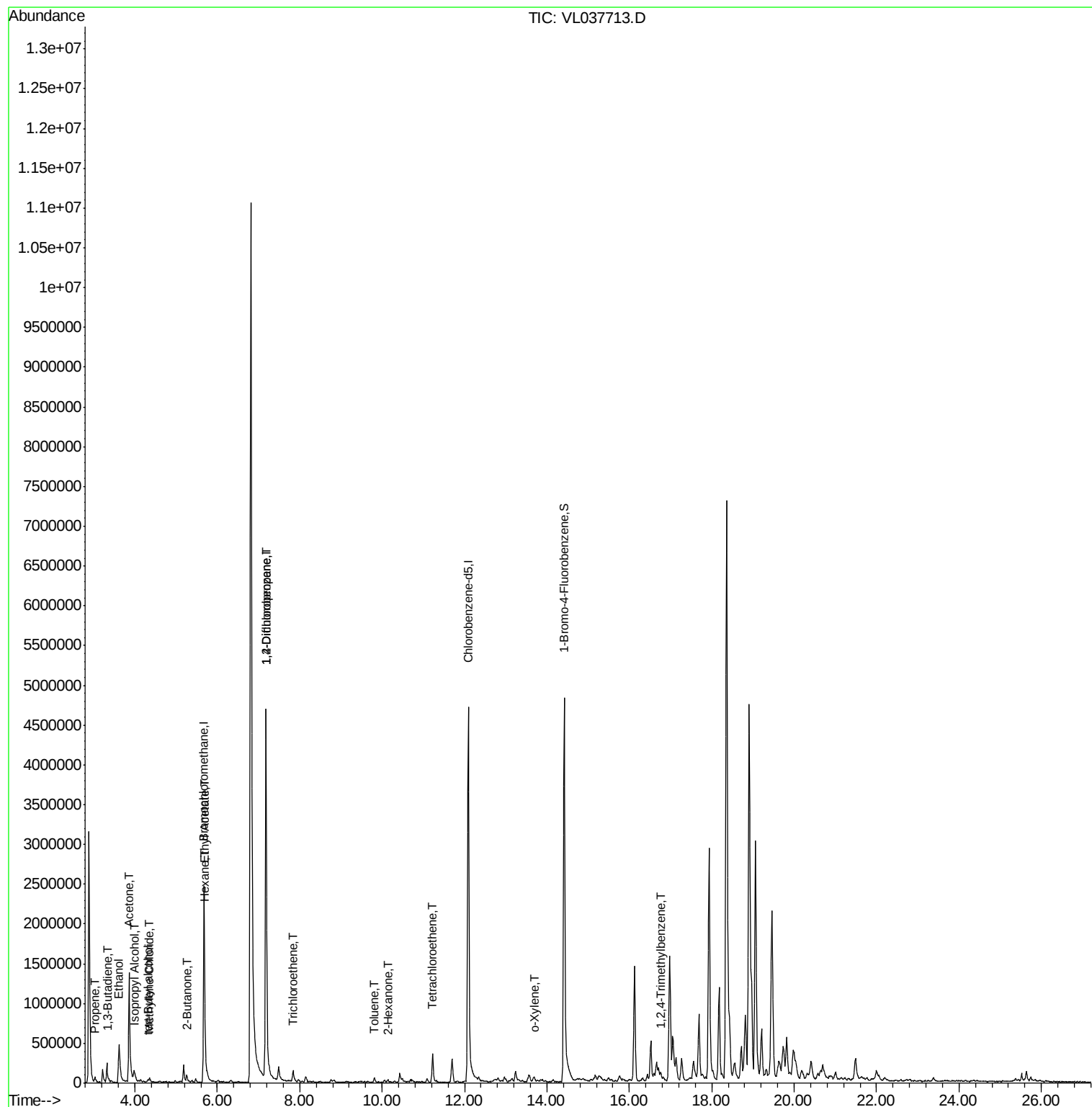
Target Compounds					Ovalue
9) Propene	3.01	41	5973	0.066	ppbv 84
13) Ethanol	3.61	45	813222	91.211	ppbv 93
15) Acetone	3.86	43	1887955	13.264	ppbv 99
16) 1,3-Butadiene	3.35	39	4462	0.050	ppbv # 10
17) tert-Butyl alcohol	4.31	59	6278	0.052	ppbv # 72
19) Isopropyl Alcohol	3.99	45	159432	2.059	ppbv # 1
20) Methylene Chloride	4.35	84	15605	0.230	ppbv # 75
25) Ethyl Acetate	5.69	43	26486	0.077	ppbv # 90
26) Hexane	5.70	57	66619	0.407	ppbv # 46
34) 2-Butanone	5.26	43	123361	0.734	ppbv 99
38) Trichloroethene	7.84	130	26430	0.184	ppbv 90
39) 1,2-Dichloropropane	7.18	63	951394	7.206	ppbv # 27
51) 2-Hexanone	10.15	43	4169	0.044	ppbv # 29
52) Tetrachloroethene	11.22	164	98460	0.744	ppbv # 85
53) Toluene	9.82	91	19469	0.051	ppbv # 1
60) o-Xylene	13.70	91	19347	0.049	ppbv # 56
74) 1,2,4-Trimethylbenzene	16.78	105	14759	0.033	ppbv # 65

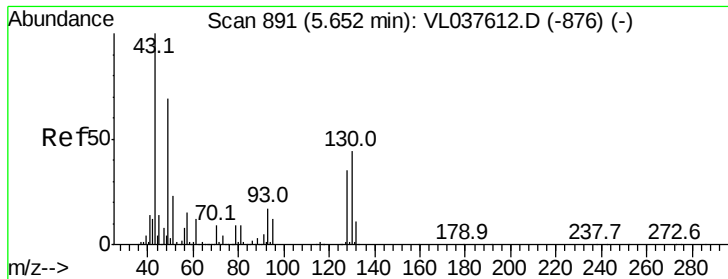
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File:

Acq: 28 Sep 2021 21:55

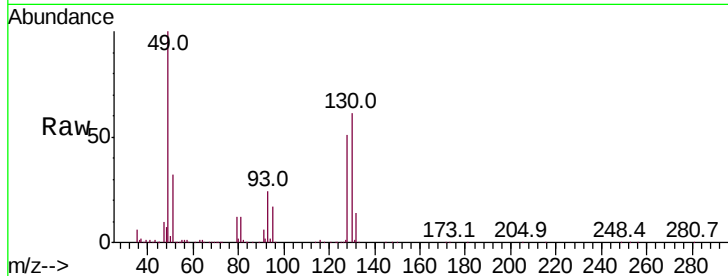
Tot Ion: 49 Resp: 1369959

Ion Ratio Lower Upper

49 100

128 53.9 27.9 83.6

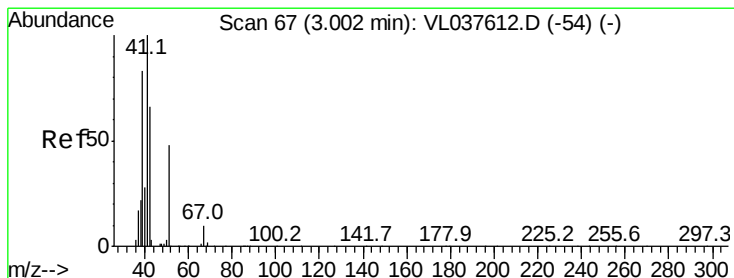
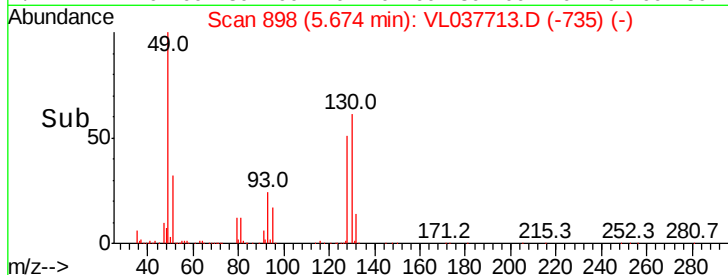
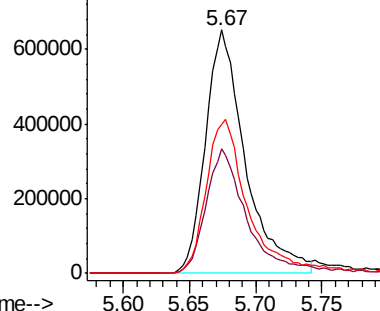
130 66.9 33.9 101.7



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



#9

Propene

Concen: 0.066 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL037713.D

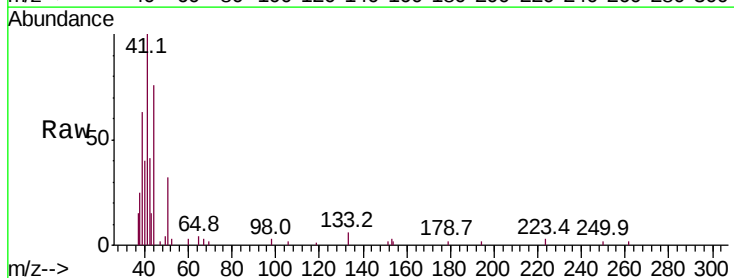
Acq: 28 Sep 2021 21:55

Tgt Ion: 41 Resp: 5973

Ion Ratio Lower Upper

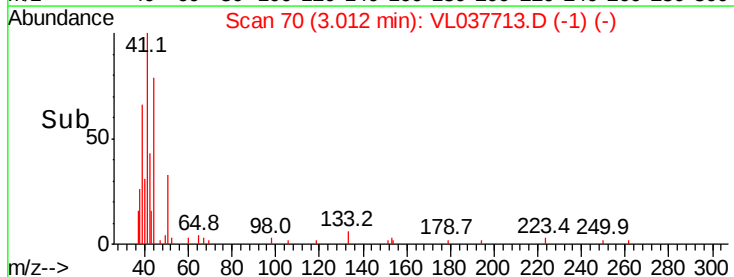
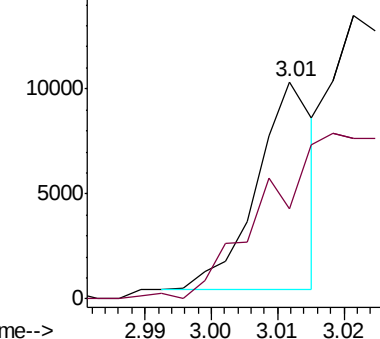
41 100

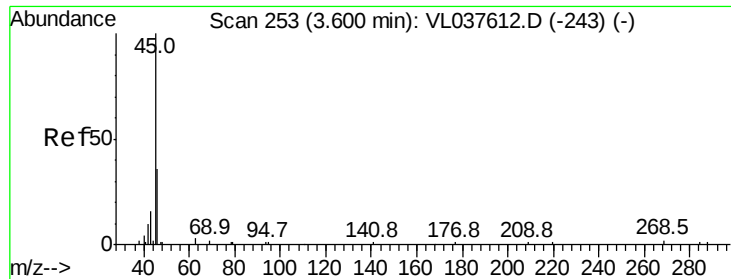
42 58.2 57.2 85.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

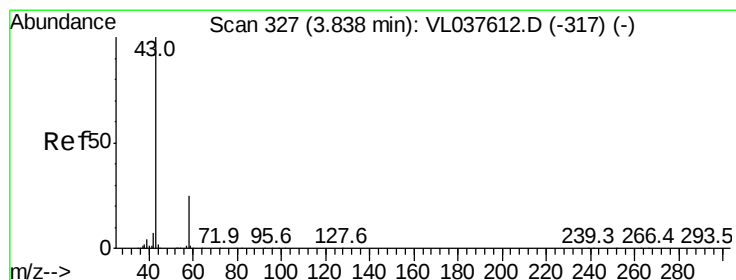
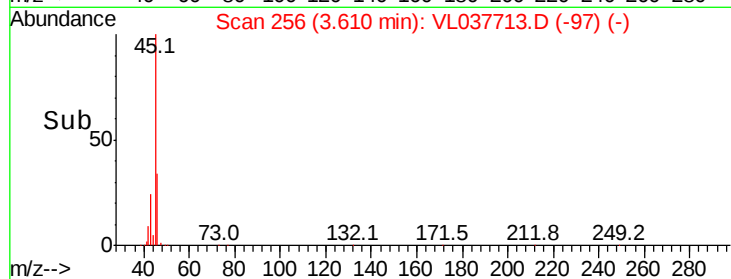
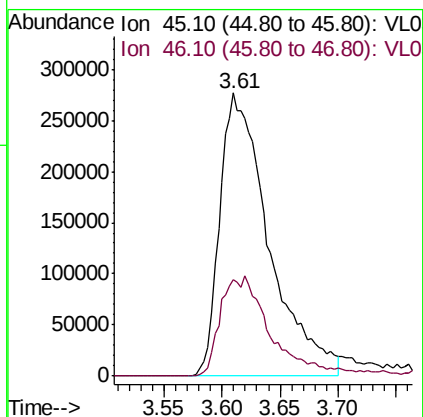
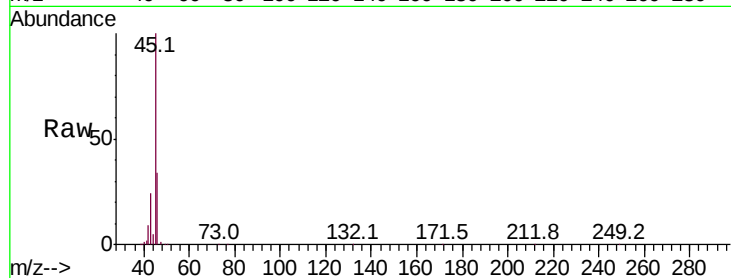
Ion 42.10 (41.80 to 42.80): VL0





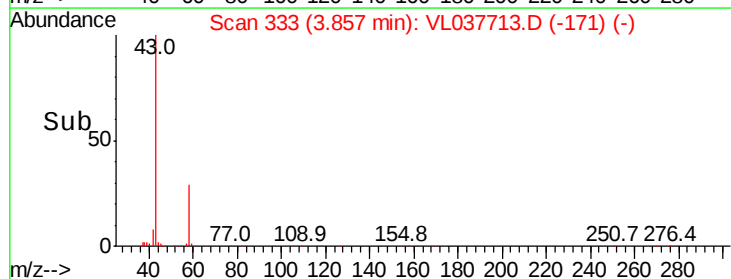
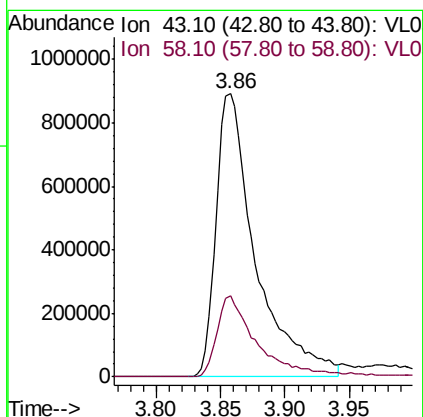
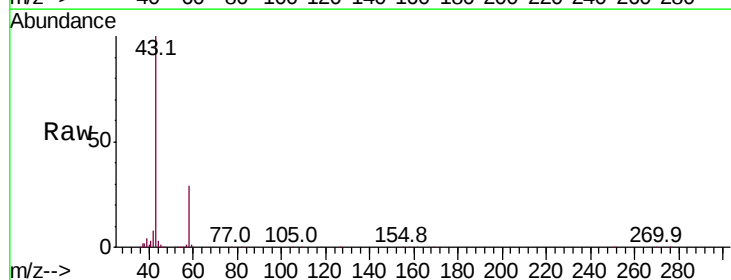
#13
Ethanol
Concen: 91.211 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Sep 2021 21:55

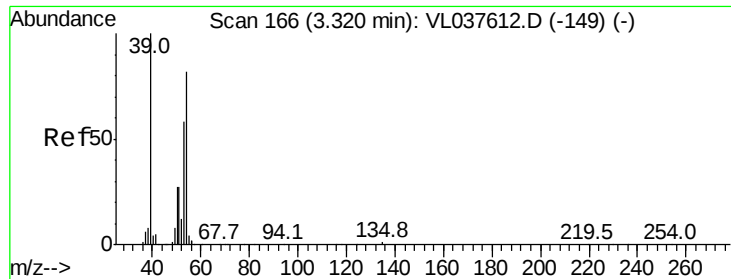
Tot Ion: 45 Resp: 813222
Ion Ratio Lower Upper
45 100
46 38.6 17.2 68.8



#15
Acetone
Concen: 13.264 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.02 min
Lab File: VL037713.D
Acq: 28 Sep 2021 21:55

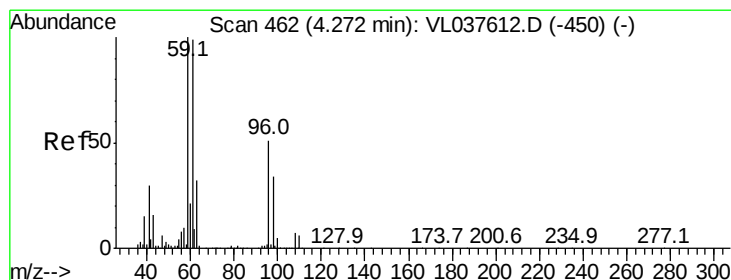
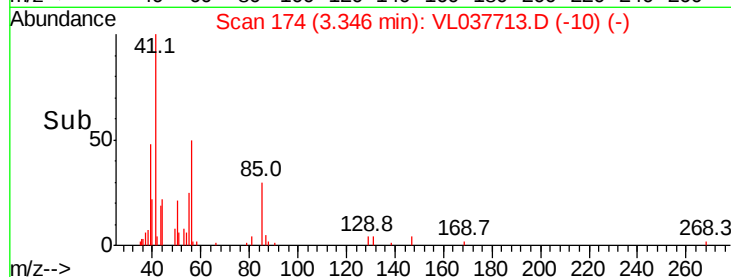
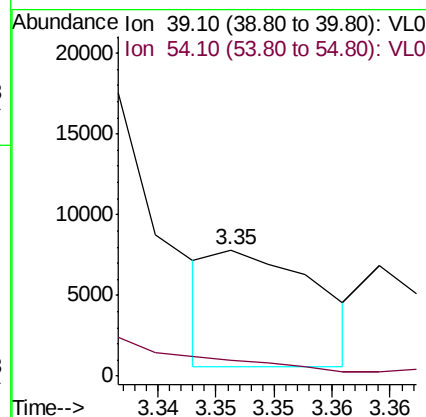
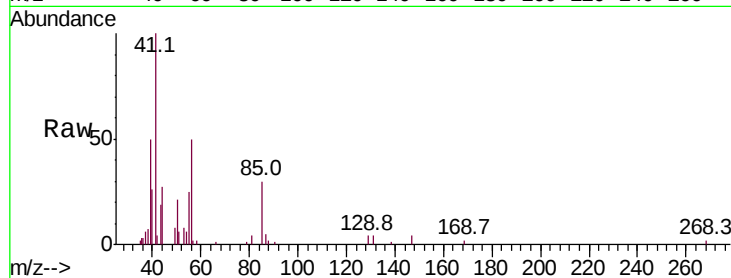
Tgt Ion: 43 Resp: 1887955
Ion Ratio Lower Upper
43 100
58 30.8 24.9 37.3





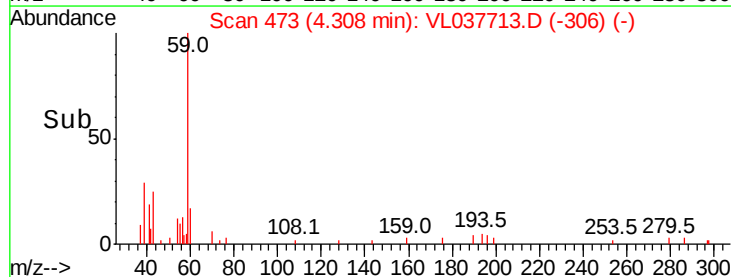
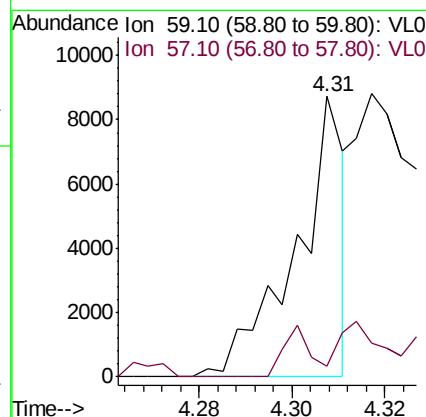
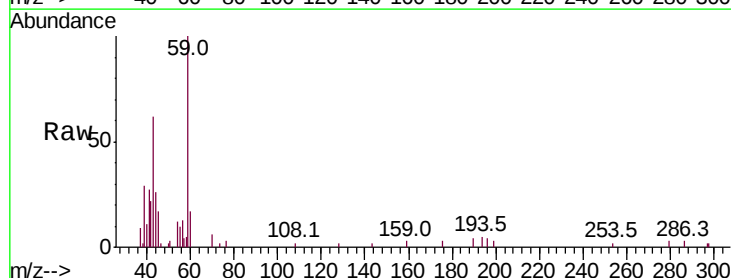
#16
 1,3-Butadiene
 Concen: 0.050 ppbv
 RT: 3.35 min
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 28 Sep 2021 21:55

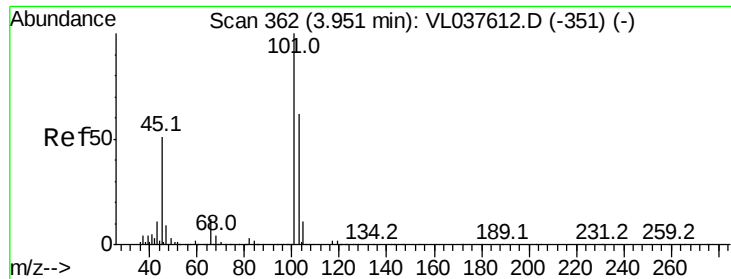
Tot Ion: 39 Resp: 4462
 Ion Ratio Lower Upper
 39 100
 54 0.0 62.6 93.8#



#17
 tert-Butyl alcohol
 Concen: 0.052 ppbv
 RT: 4.31 min Scan# 473
 Delta R.T. 0.04 min
 Lab File: VL037713.D
 Acq: 28 Sep 2021 21:55

Tgt Ion: 59 Resp: 6278
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 2.059 ppbv

RT: 3.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

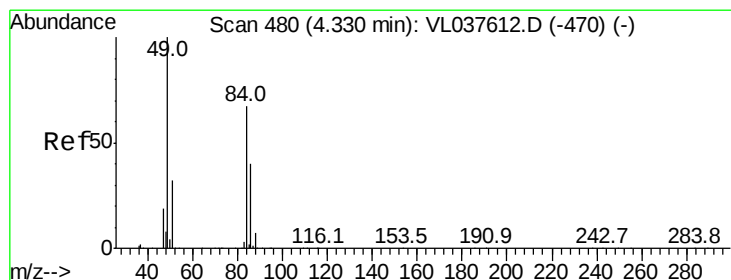
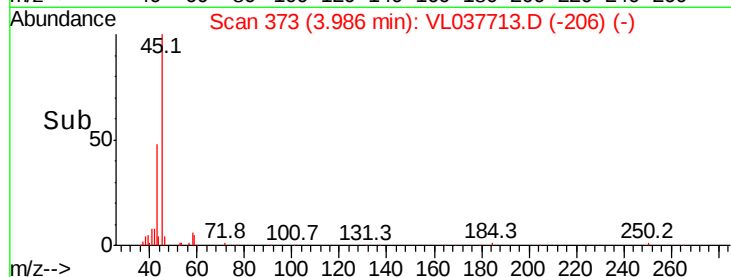
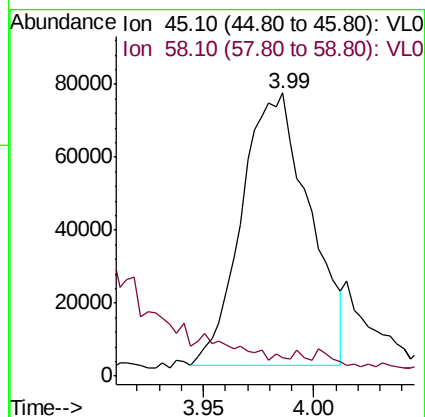
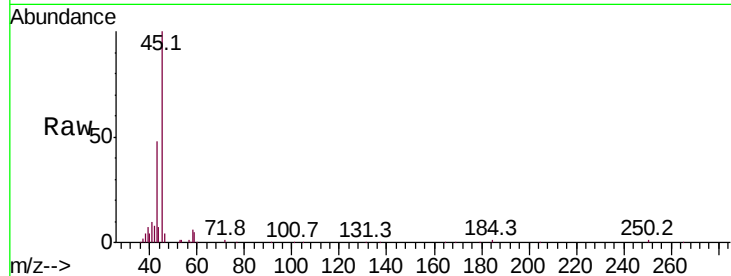
Acq: 28 Sep 2021 21:55

Tot Ion: 45 Resp: 159432

Ion Ratio Lower Upper

45 100

58 362.0 2.9 4.3#



#20

Methylene Chloride

Concen: 0.230 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.02 min

Lab File: VL037713.D

Acq: 28 Sep 2021 21:55

Tgt Ion: 84 Resp: 15605

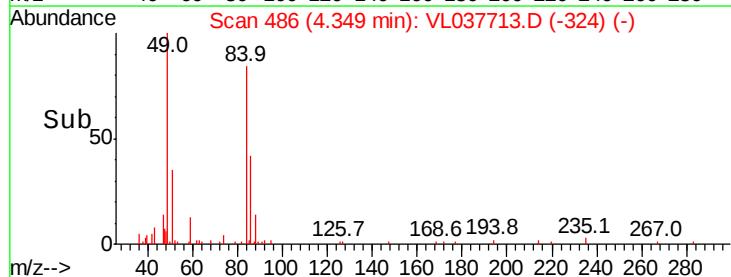
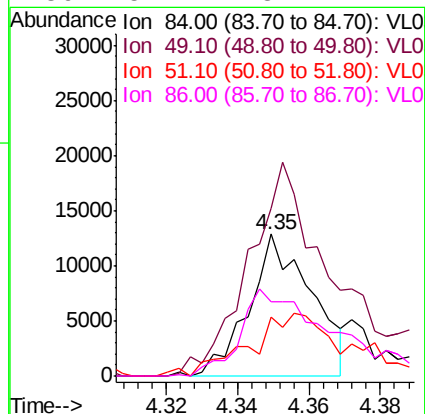
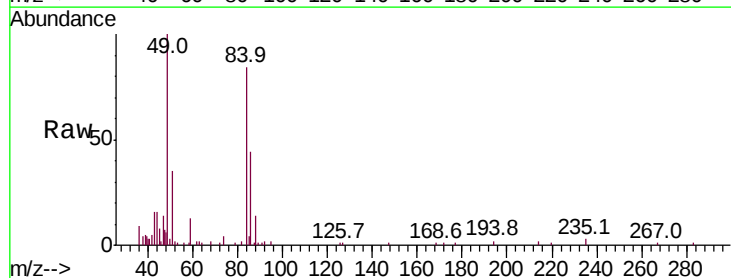
Ion Ratio Lower Upper

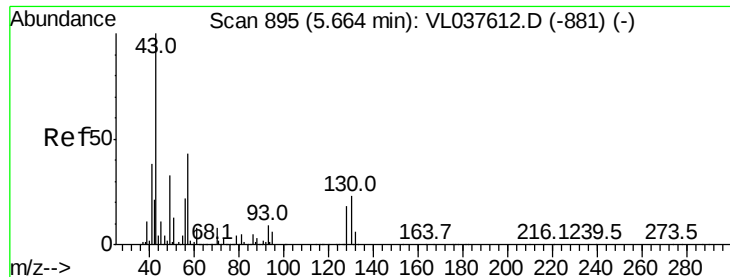
84 100

49 105.2 120.0 180.0#

51 41.8 38.0 57.0

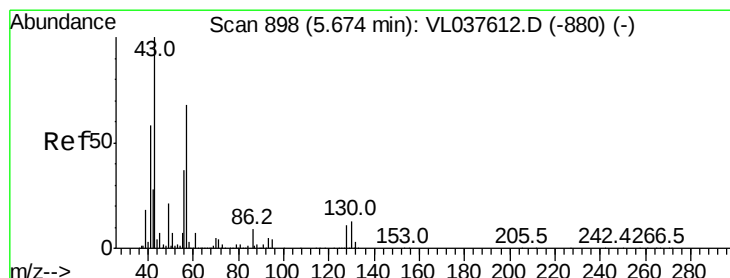
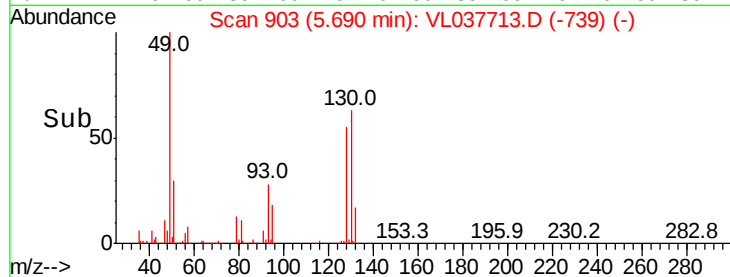
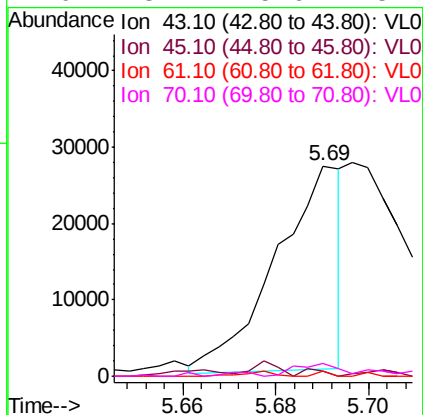
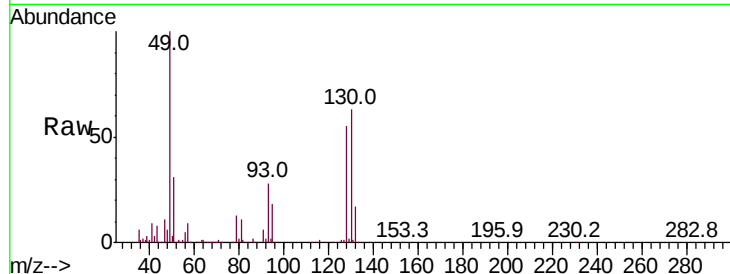
86 52.2 48.2 72.2





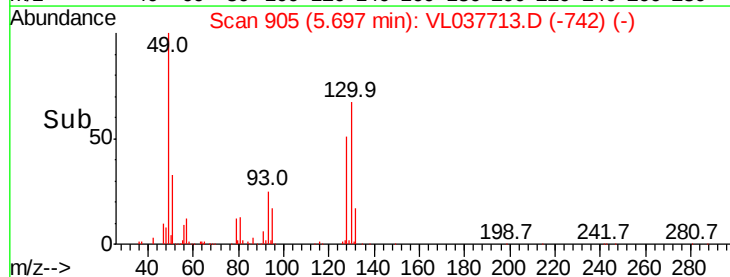
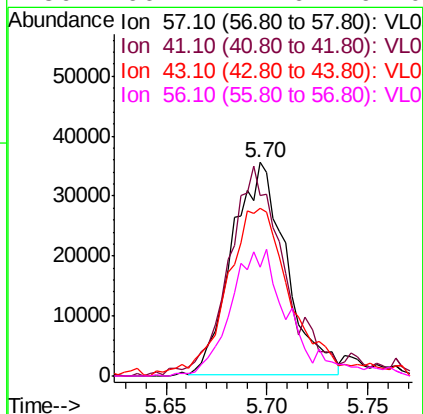
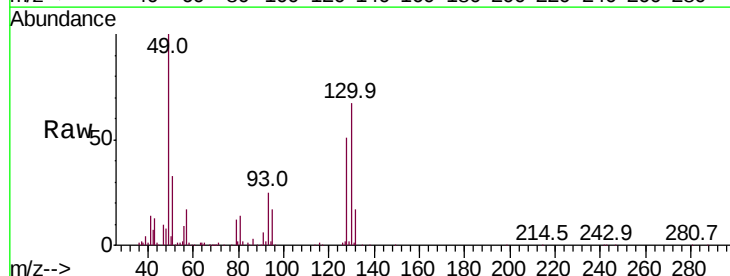
#25
Ethyl Acetate
Concen: 0.077 ppbv
RT: 5.69 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Sep 2021 21:55

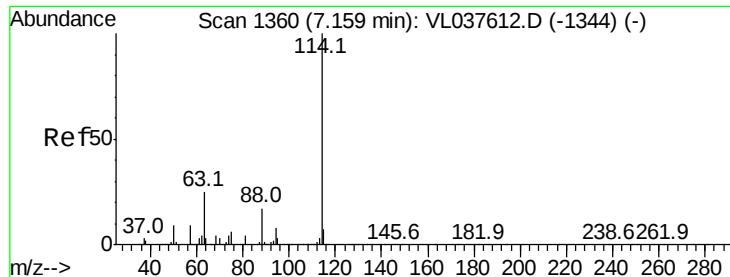
Tot Ion:	43	Resp:	26486
Ion	Ratio	Lower	Upper
43	100		
45	8.8	8.0	12.0
61	1.6	7.5	11.3#
70	8.7	5.6	8.4#



#26
Hexane
Concen: 0.407 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.02 min
Lab File: VL037713.D
Acq: 28 Sep 2021 21:55

Tgt Ion:	57	Resp:	66619
Ion	Ratio	Lower	Upper
57	100		
41	112.9	70.9	106.3#
43	94.6	170.4	255.6#
56	66.1	42.6	64.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Sep 2021 21:55

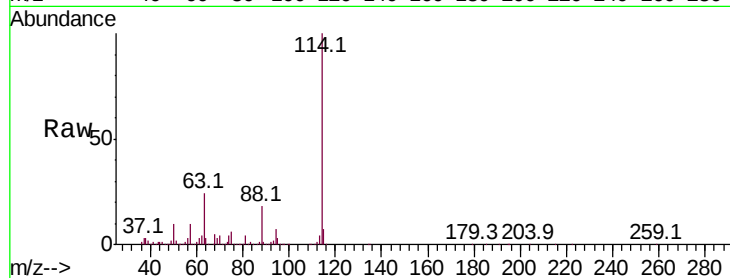
Tot Ion: 114 Resp: 4133772

Ion Ratio Lower Upper

114 100

63 24.4 19.6 29.4

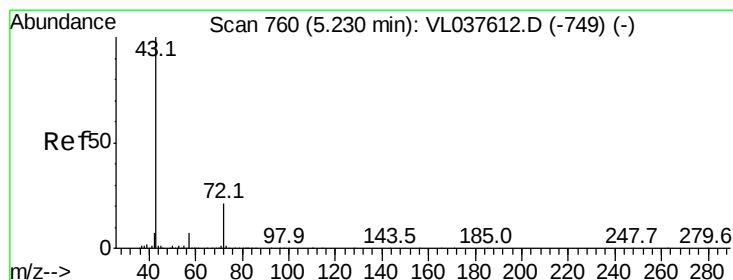
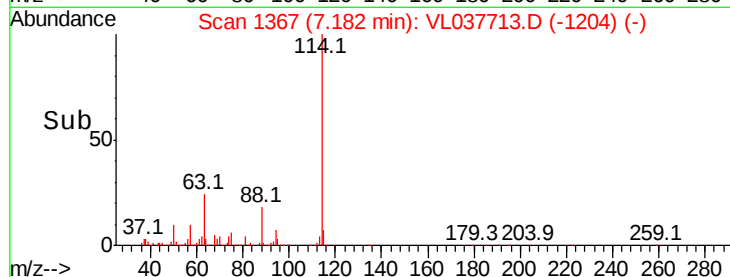
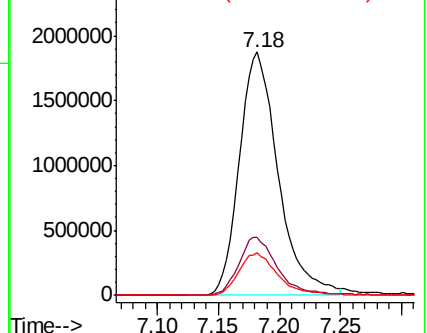
88 17.8 14.2 21.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.734 ppbv

RT: 5.26 min Scan# 769

Delta R.T. 0.03 min

Lab File: VL037713.D

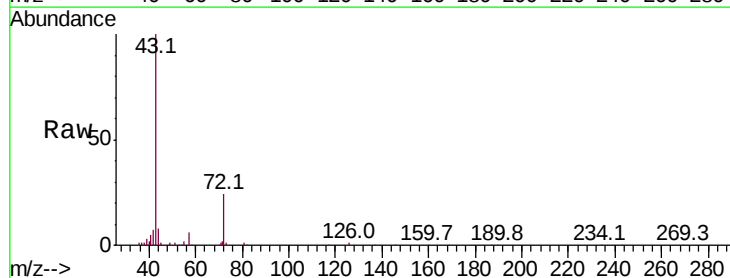
Acq: 28 Sep 2021 21:55

Tgt Ion: 43 Resp: 123361

Ion Ratio Lower Upper

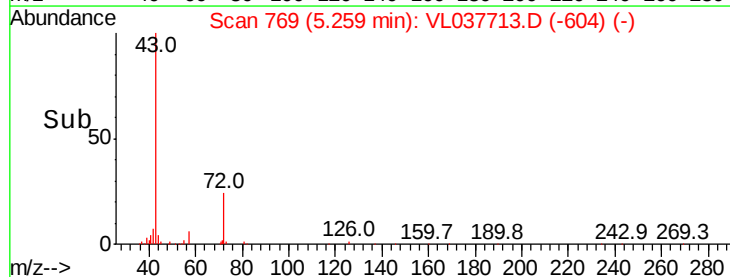
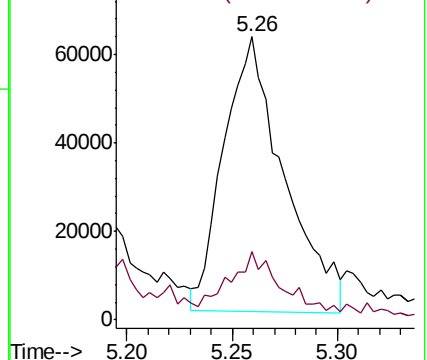
43 100

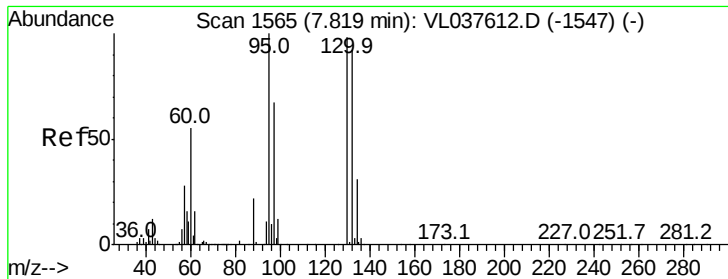
72 23.5 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#38

Trichloroethene

Concen: 0.184 ppbv

RT: 7.84 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 28 Sep 2021 21:55

Tot Ion:130 Resp: 26430

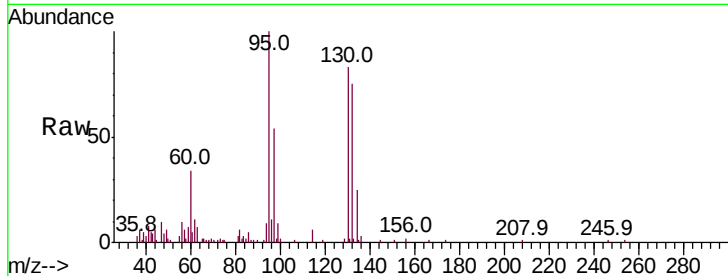
Ion Ratio Lower Upper

130 100

95 117.7 81.8 122.6

132 87.2 75.3 112.9

97 63.8 54.7 82.1

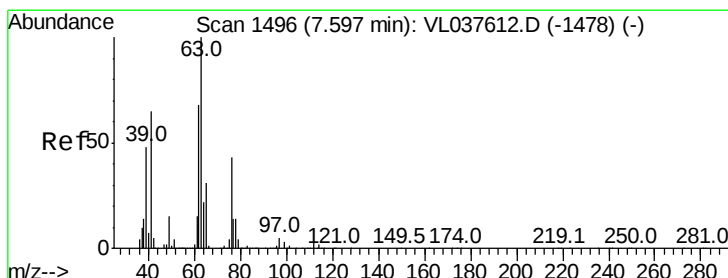
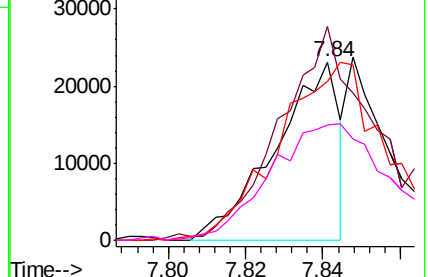
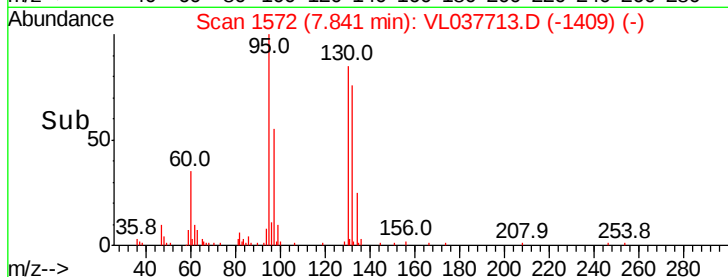


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.206 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.42 min

Lab File: VL037713.D

Acq: 28 Sep 2021 21:55

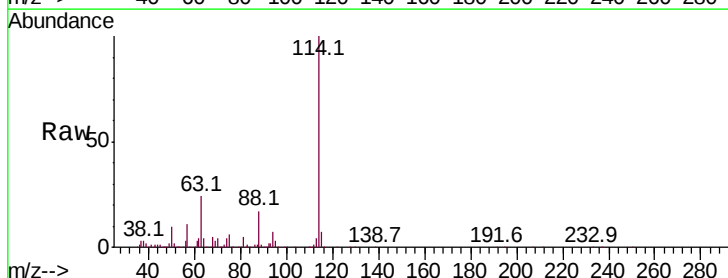
Tgt Ion: 63 Resp: 951394

Ion Ratio Lower Upper

63 100

41 0.0 51.6 77.4#

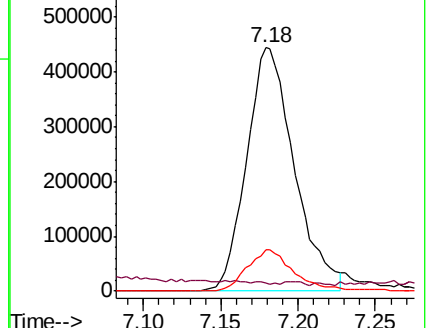
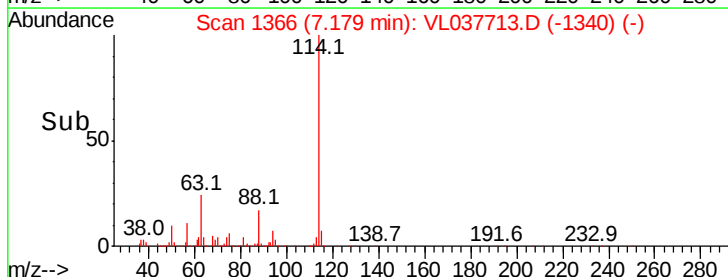
62 16.8 54.6 81.8#

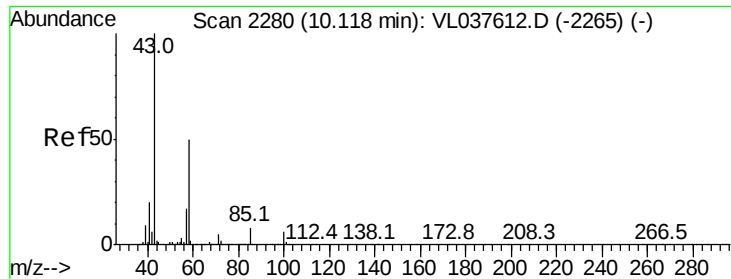


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

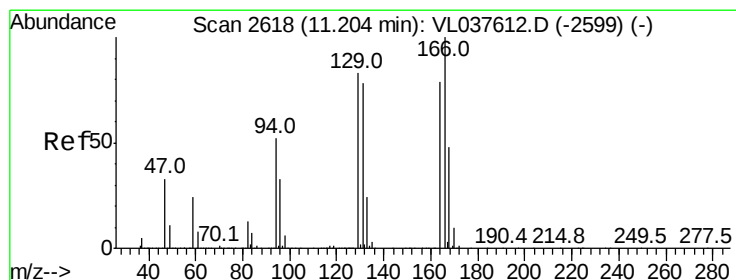
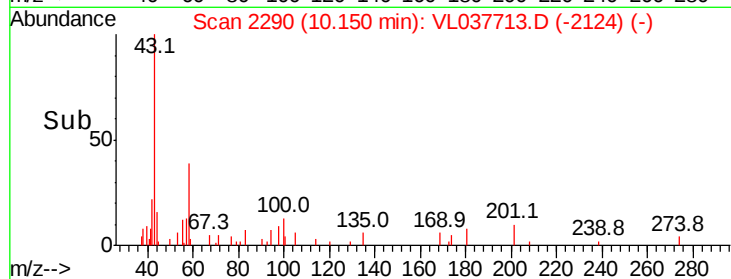
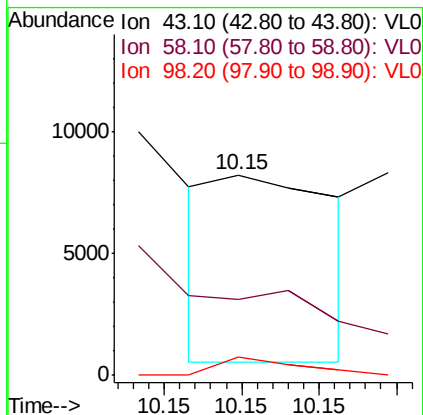
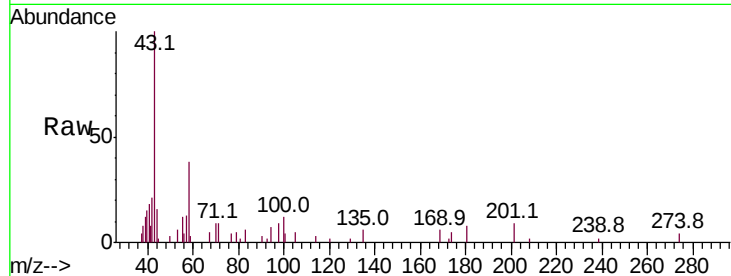
Ion 62.10 (61.80 to 62.80): VL0





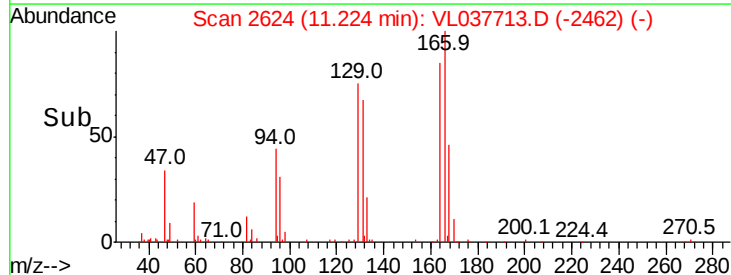
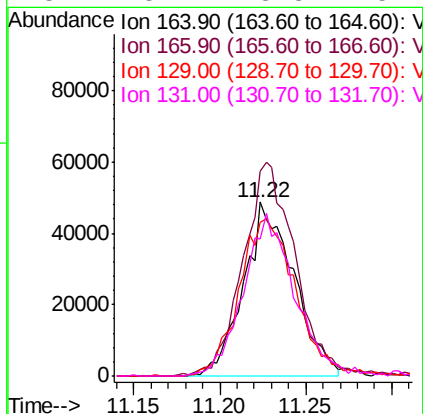
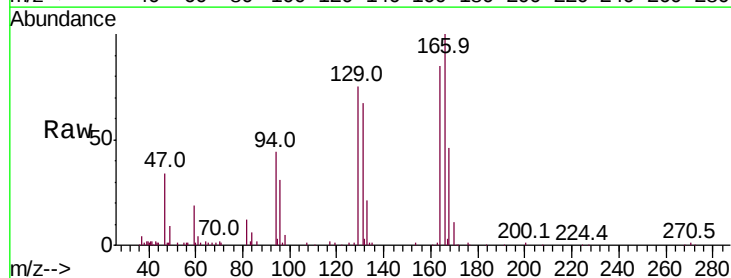
#51
2-Hexanone
Concen: 0.044 ppbv
RT: 10.15 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Sep 2021 21:55

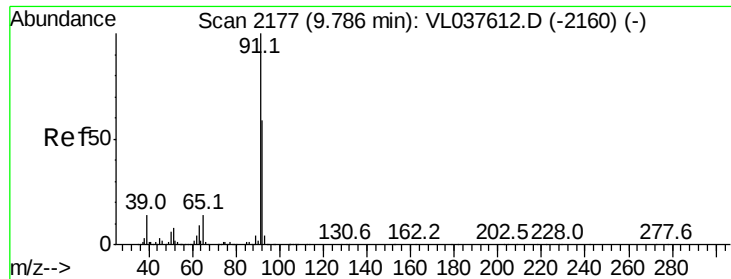
Tot Ion:	43	Resp:	4169
Ion Ratio	Lower	Upper	
43	100		
58	0.0	39.3	58.9#
98	6.5	0.4	0.6#



#52
Tetrachloroethene
Concen: 0.744 ppbv
RT: 11.22 min Scan# 2624
Delta R.T. 0.02 min
Lab File: VL037713.D
Acq: 28 Sep 2021 21:55

Tgt Ion:	164	Resp:	98460
Ion Ratio	Lower	Upper	
164	100		
166	117.1	101.2	151.8
129	87.5	84.0	126.0
131	78.1	78.8	118.2#





#53

Toluene

Concen: 0.051 ppbv

RT: 9.82 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

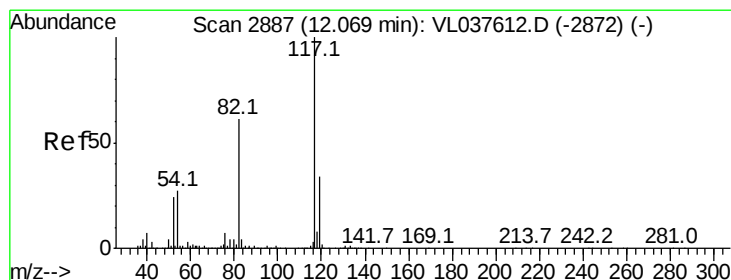
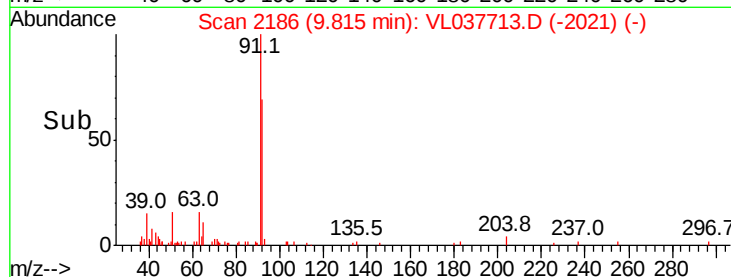
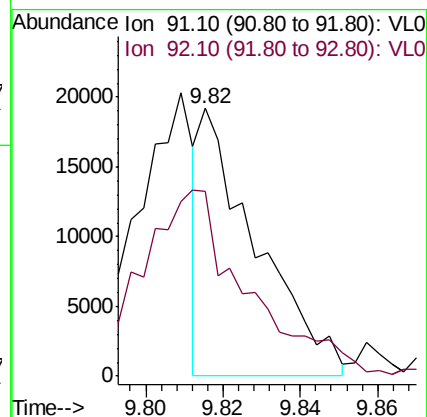
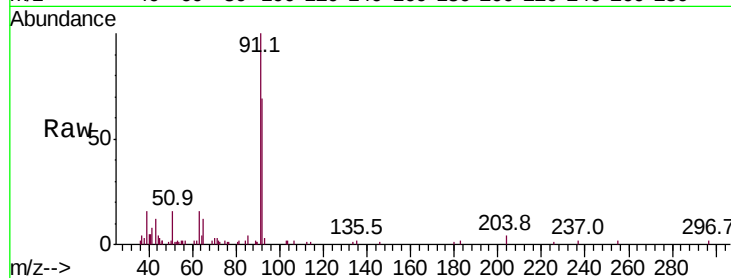
Acq: 28 Sep 2021 21:55

Tot Ion: 91 Resp: 19469

Ion Ratio Lower Upper

91 100

92 142.2 48.9 73.3#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. 0.02 min

Lab File: VL037713.D

Acq: 28 Sep 2021 21:55

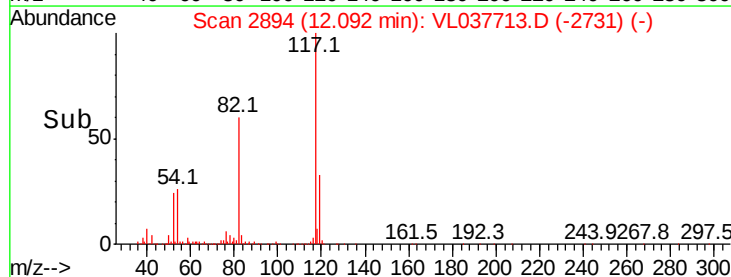
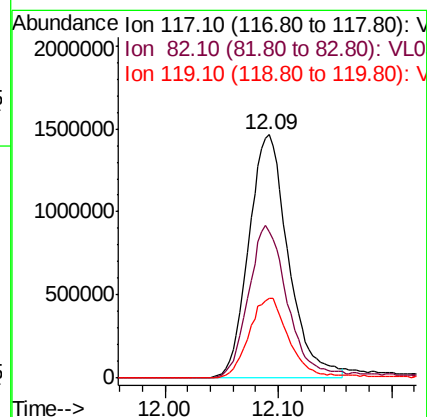
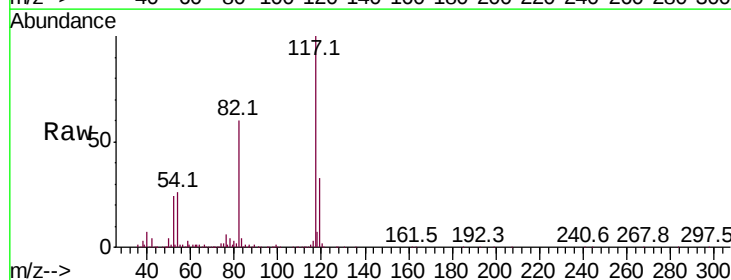
Tgt Ion: 117 Resp: 3564538

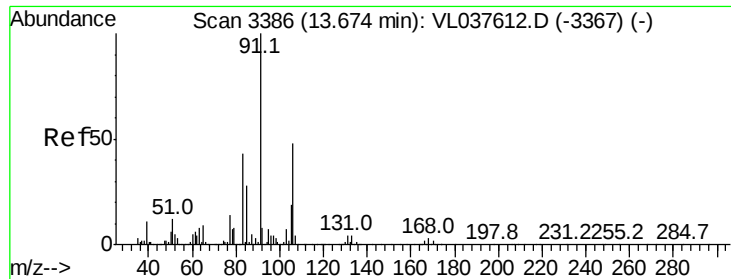
Ion Ratio Lower Upper

117 100

82 66.3 50.6 75.8

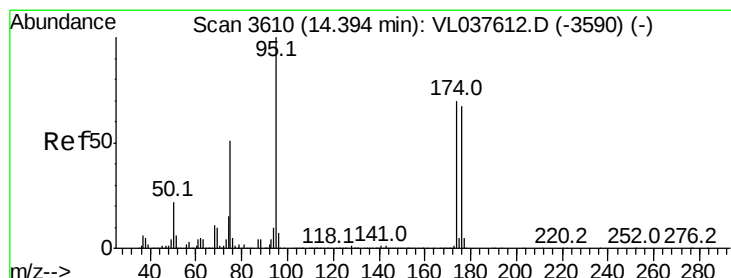
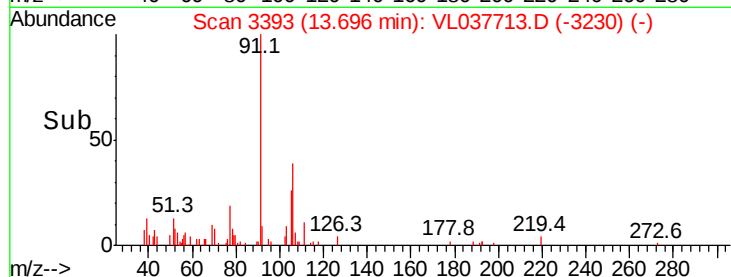
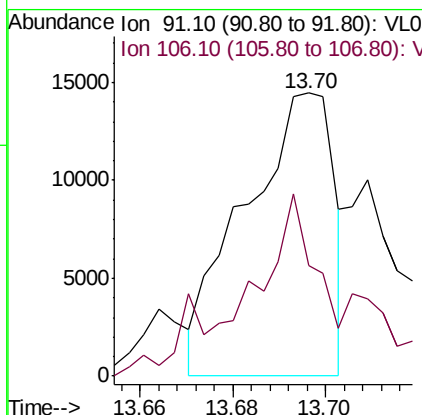
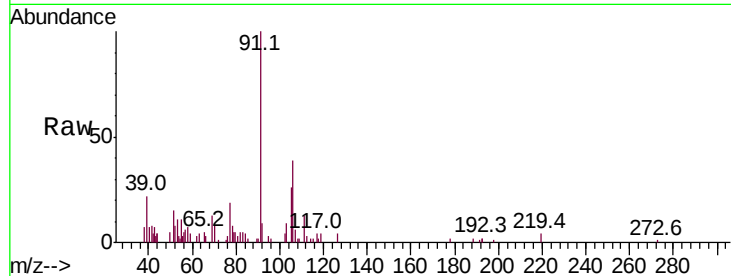
119 34.3 26.2 39.2





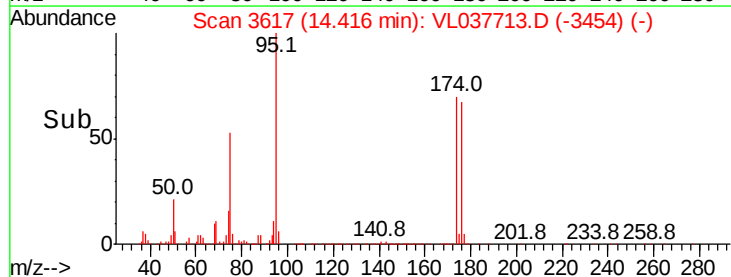
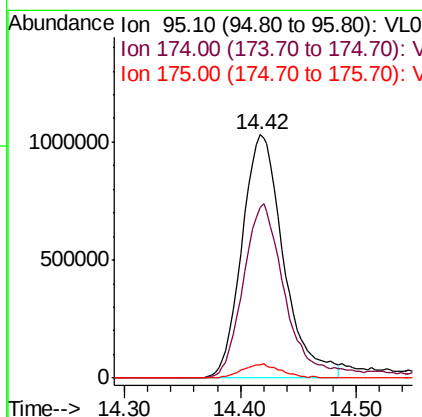
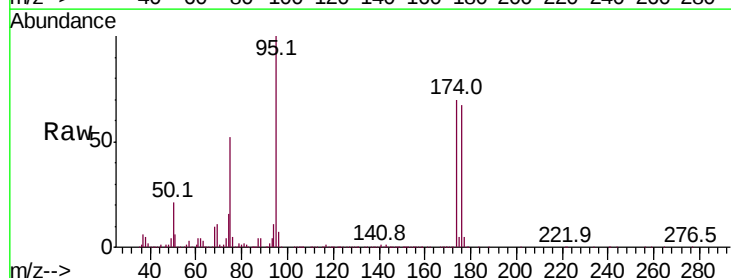
#60
o-Xylene
Concen: 0.049 ppbv
RT: 13.70 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Sep 2021 21:55

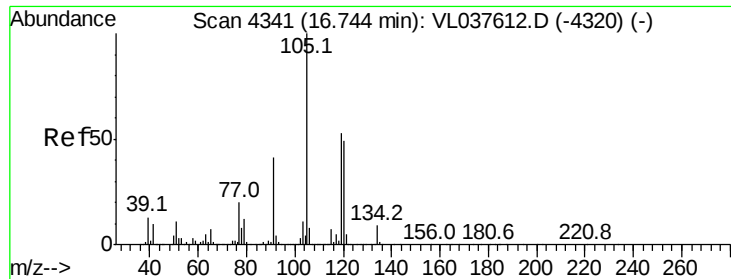
Tot Ion: 91 Resp: 19347
Ion Ratio Lower Upper
91 100
106 75.2 23.0 69.0#



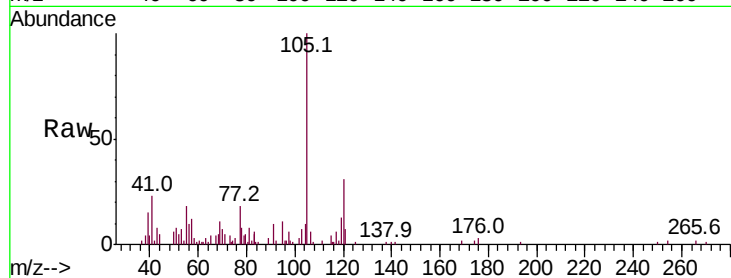
#68
1-Bromo-4-Fluorobenzene
Concen: 10.010 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. 0.02 min
Lab File: VL037713.D
Acq: 28 Sep 2021 21:55

Tgt Ion: 95 Resp: 2578702
Ion Ratio Lower Upper
95 100
174 76.7 56.3 84.5
175 6.1 4.4 6.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.033 ppbv
 RT: 16.78
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Sep 2021 21:55



Tot Ion:	105	Resp:	14759
Ion	Ratio	Lower	Upper
105	100		
120	28.6	39.4	59.0#
91	10.4	33.3	49.9#
77	26.9	15.7	23.5#

