

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061721\
 Data File : VL037212.D
 Acq On : 17 Jun 2021 21:58
 Operator : SY/AP
 Sample : M2742-04DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Quant Time: Jun 18 01:24:50 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 16 14:06:32 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1456525	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4228498	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	3623394	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	2796720	10.19	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%	

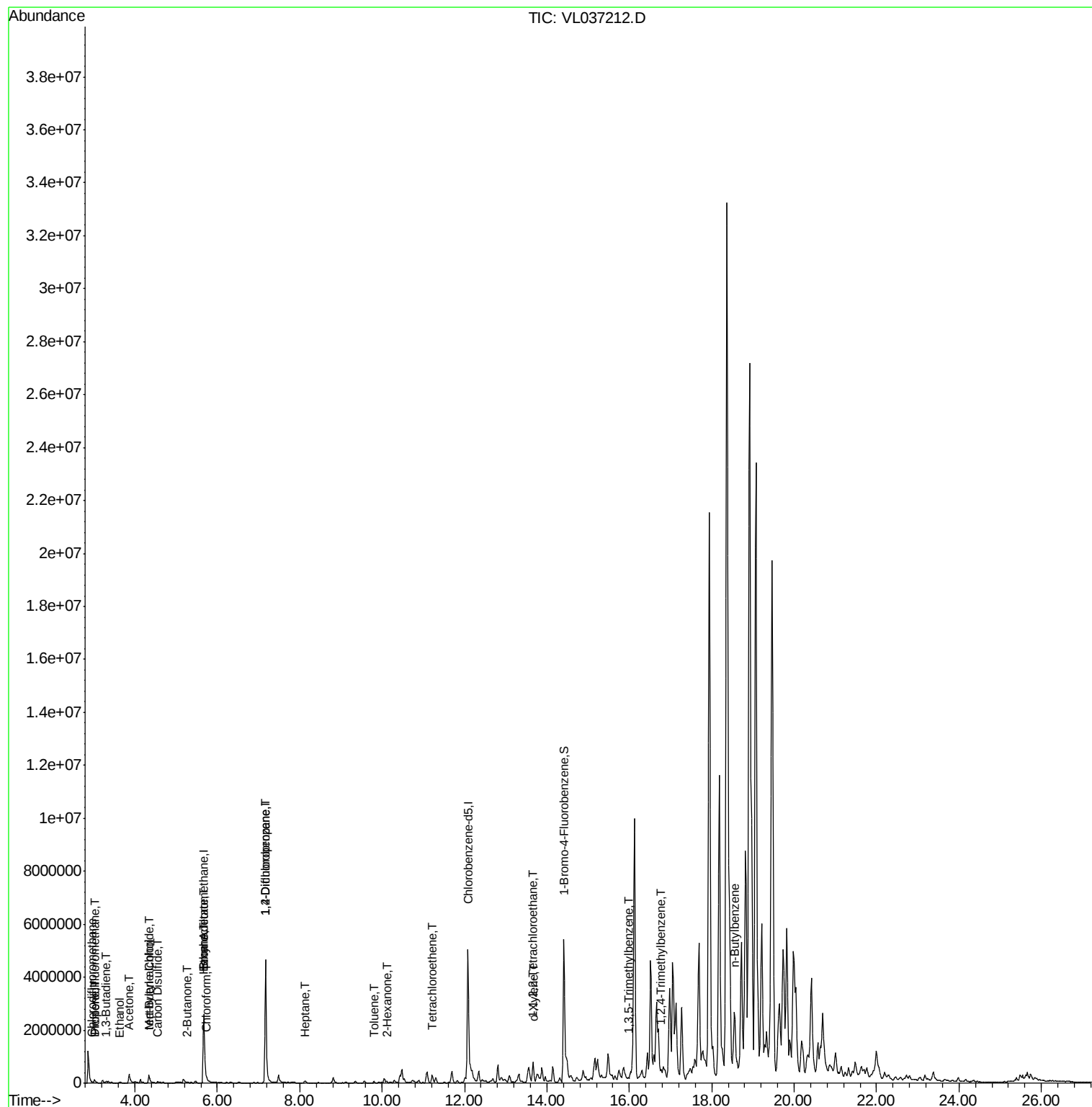
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	14464	0.057	ppbv	94
3) Chlorodifluoromethane	2.96	51	61352	0.217	ppbv #	67
9) Propene	3.01	41	27194	0.300	ppbv	94
10) Heptane	8.11	43	10231	0.047	ppbv #	27
13) Ethanol	3.62	45	13471	0.962	ppbv	73
15) Acetone	3.86	43	517128	3.148	ppbv #	86
16) 1,3-Butadiene	3.31	39	7498	0.077	ppbv #	11
17) tert-Butyl alcohol	4.33	59	13719	0.090	ppbv #	76
20) Methylene Chloride	4.34	84	126672	1.288	ppbv	87
25) Ethyl Acetate	5.68	43	232246	0.653	ppbv #	76
26) Hexane	5.68	57	331251	1.843	ppbv #	47
27) Carbon Disulfide	4.55	76	28007	0.159	ppbv #	20
29) Chloroform	5.75	83	23840	0.086	ppbv #	76
34) 2-Butanone	5.27	43	40793	0.248	ppbv #	61
39) 1,2-Dichloropropane	7.17	63	1033540	8.134	ppbv #	23
51) 2-Hexanone	10.12	43	7886	0.072	ppbv #	29
52) Tetrachloroethene	11.22	164	67005	0.422	ppbv	96
53) Toluene	9.80	91	17206	0.042	ppbv #	1
60) o-Xylene	13.68	91	19935	0.050	ppbv #	39
63) 1,1,2,2-Tetrachloroethane	13.66	83	14477	0.054	ppbv #	25
70) n-Butylbenzene	18.55	91	42152	0.080	ppbv #	70
73) 1,3,5-Trimethylbenzene	15.99	105	9079	0.021	ppbv	100
74) 1,2,4-Trimethylbenzene	16.76	105	58630	0.129	ppbv #	73

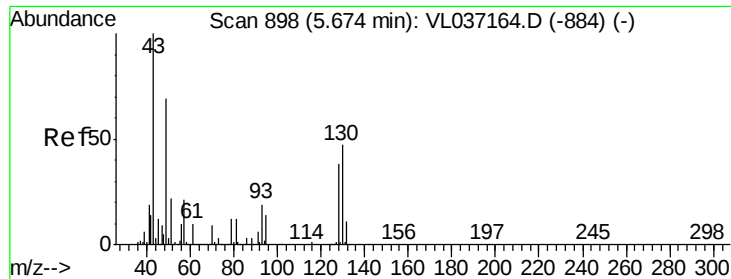
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL037212.D

Acq: 17 Jun 2021 21:58

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

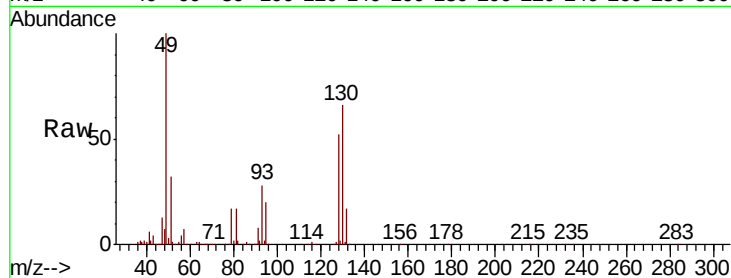
Tot Ion: 49 Resp: 1456525

Ion Ratio Lower Upper

49 100

128 55.1 29.3 88.0

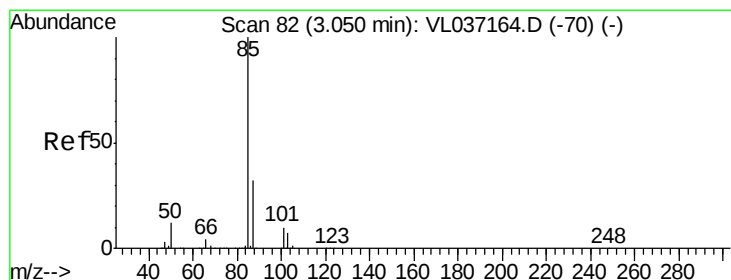
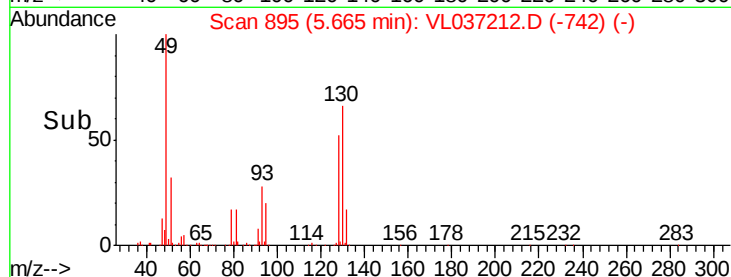
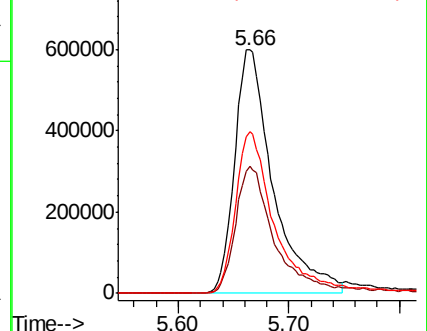
130 69.7 35.9 107.8



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: 0.057 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL037212.D

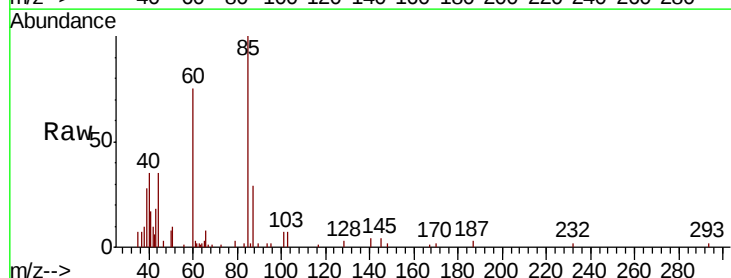
Acq: 17 Jun 2021 21:58

Tgt Ion: 85 Resp: 14464

Ion Ratio Lower Upper

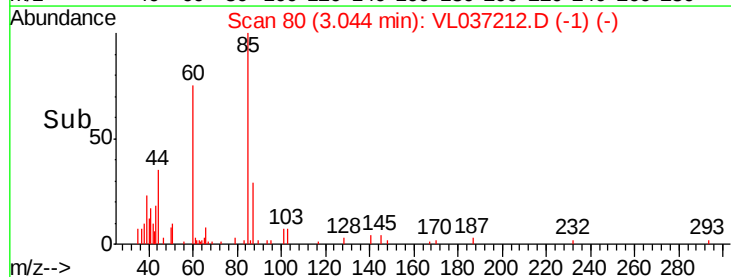
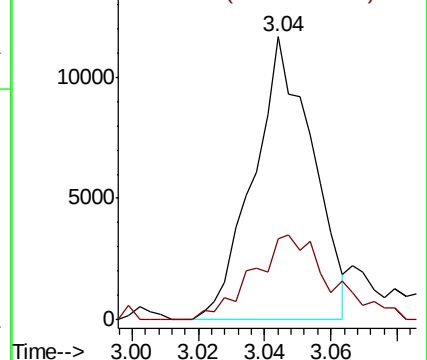
85 100

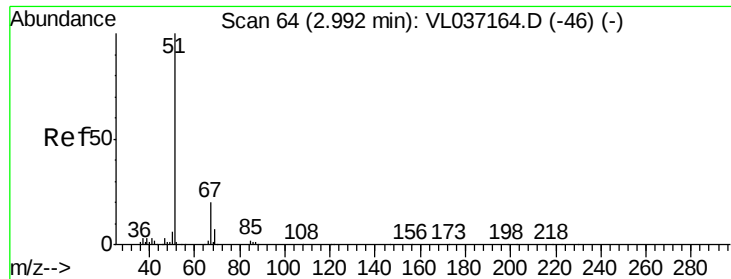
87 28.9 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.217 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.03 min

Lab File: VL037212.D

Acq: 17 Jun 2021 21:58

Instrument :

MSVOA_L

ClientSampleId :

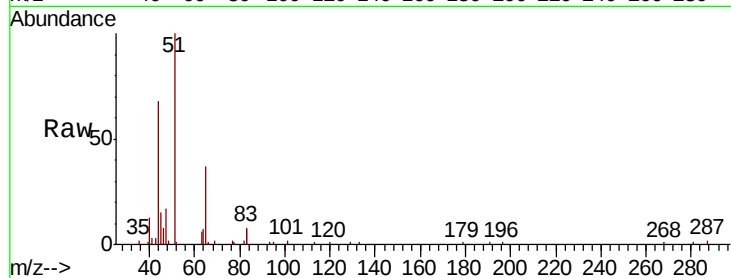
SV2DL

Tot Ion: 51 Resp: 61352

Ion Ratio Lower Upper

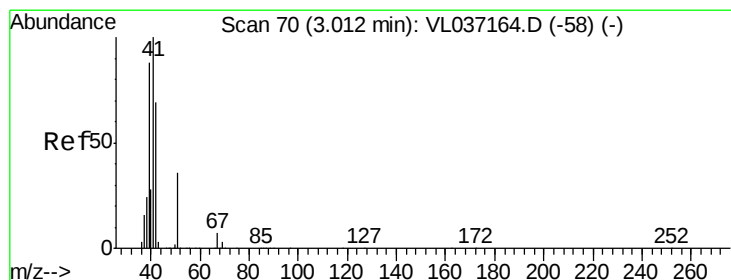
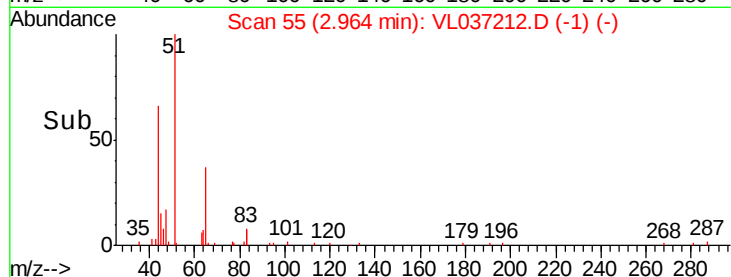
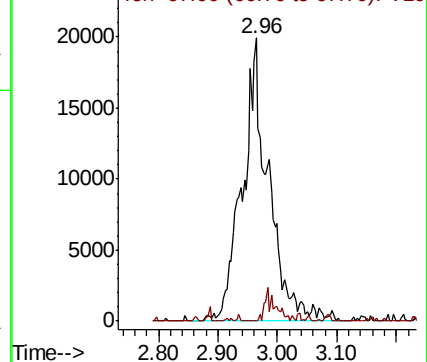
51 100

67 4.7 15.8 23.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.300 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL037212.D

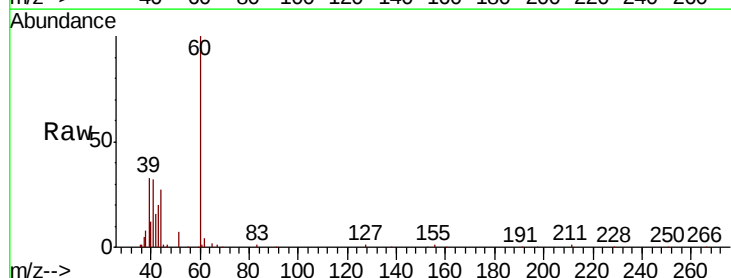
Acq: 17 Jun 2021 21:58

Tgt Ion: 41 Resp: 27194

Ion Ratio Lower Upper

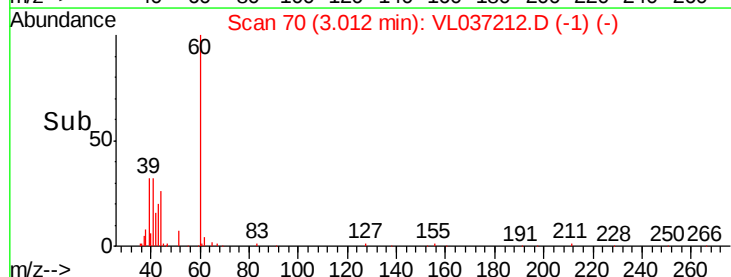
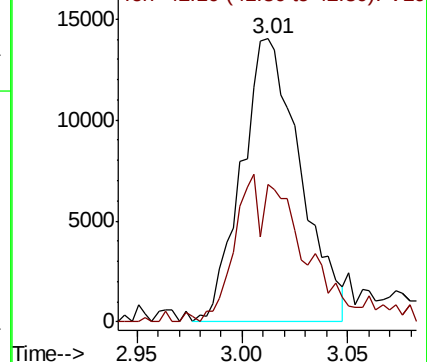
41 100

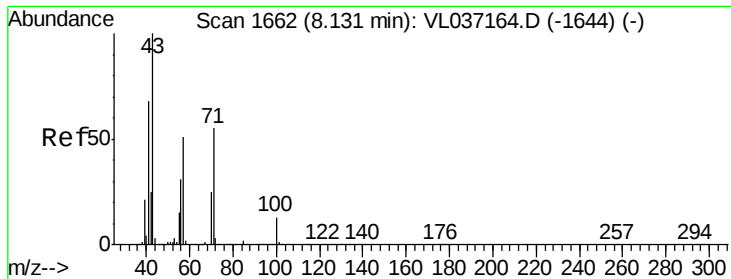
42 63.6 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

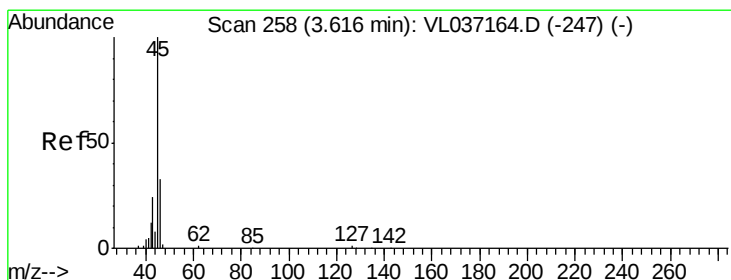
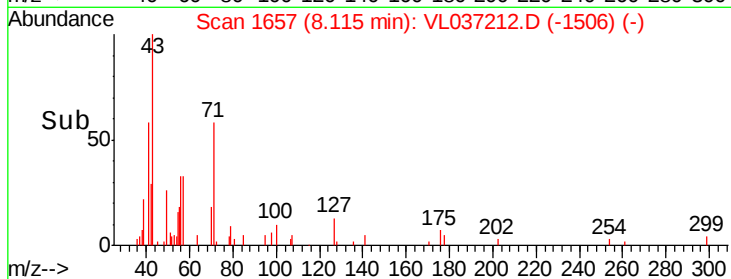
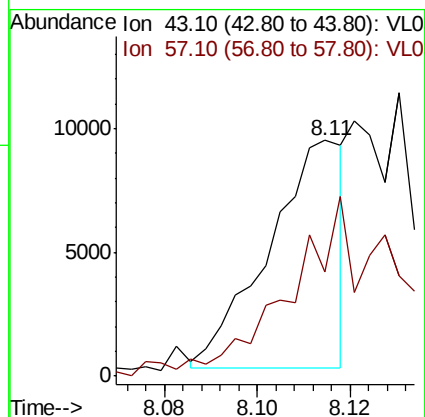
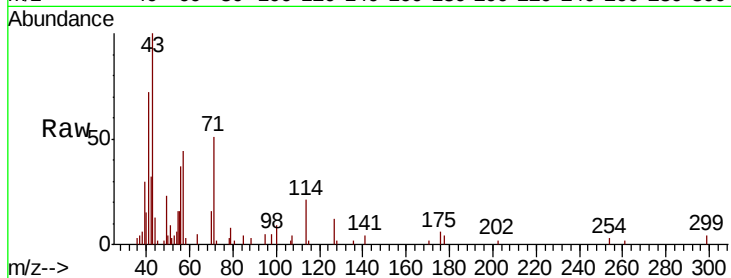




#10
Heptane
Concen: 0.047 ppbv
RT: 8.11 min Scan# 1657
Delta R.T. -0.02 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

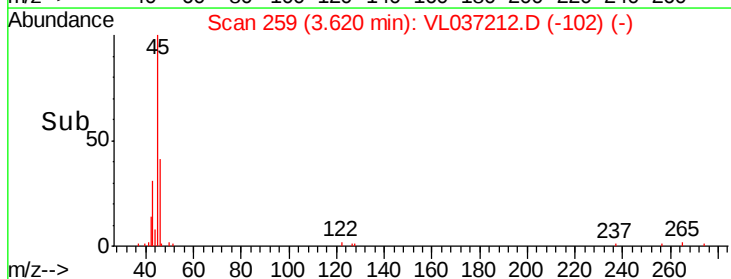
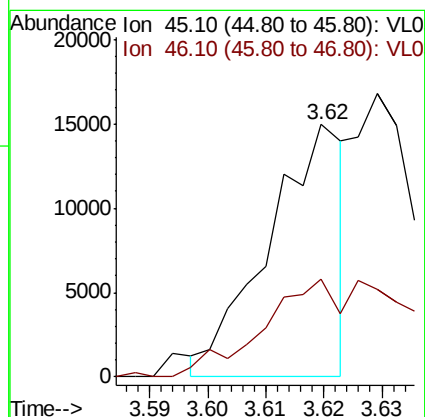
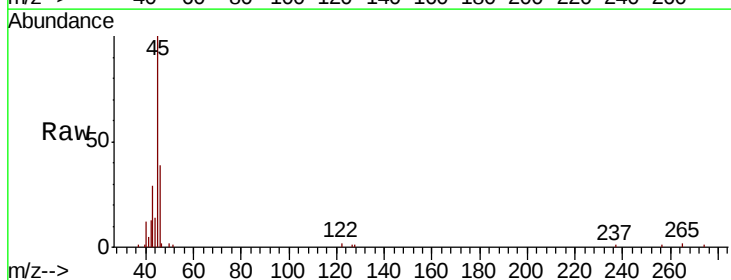
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

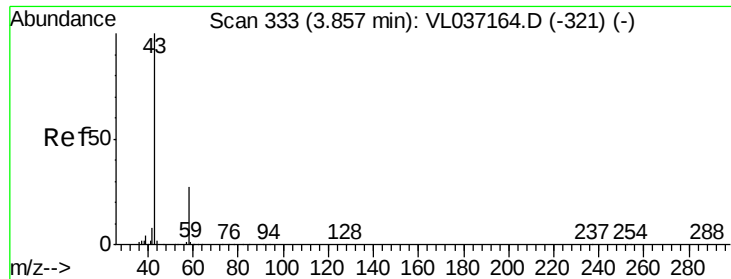
Tot Ion: 43 Resp: 10231
Ion Ratio Lower Upper
43 100
57 0.0 40.6 61.0#



#13
Ethanol
Concen: 0.962 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.00 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Tgt Ion: 45 Resp: 13471
Ion Ratio Lower Upper
45 100
46 110.7 34.2 137.0

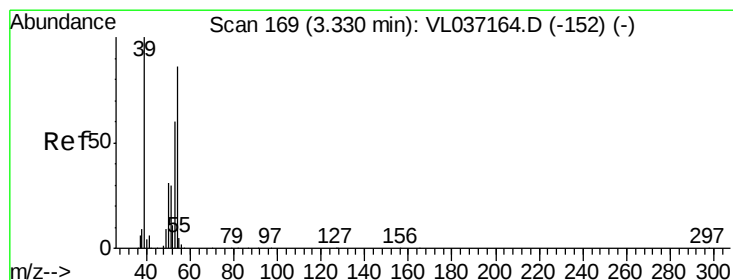
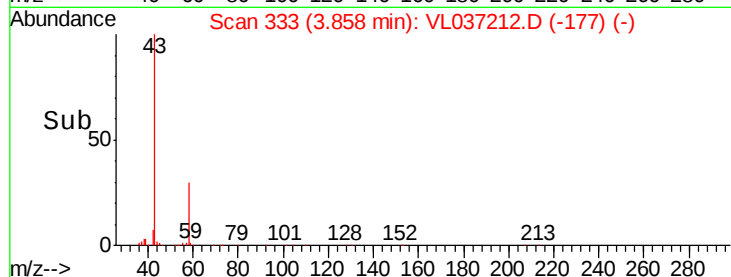
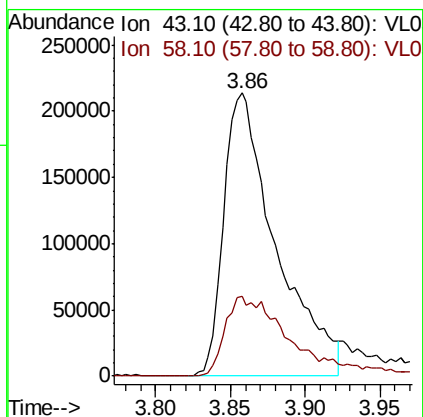
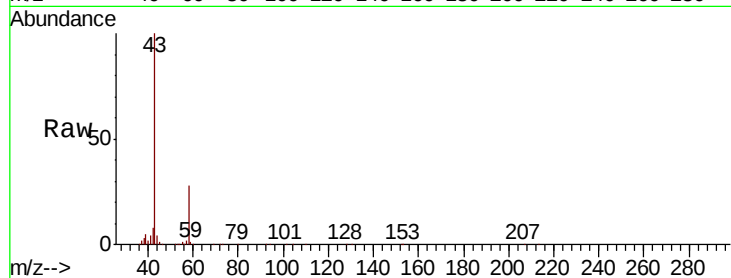




#15
Acetone
Concen: 3.148 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.00 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

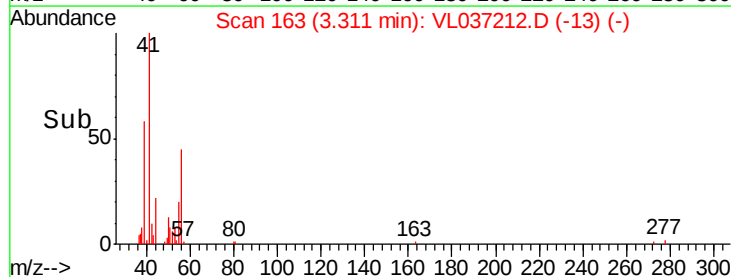
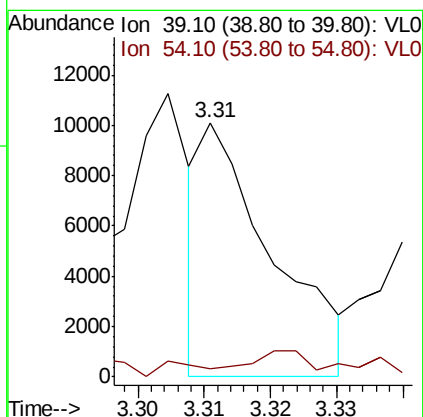
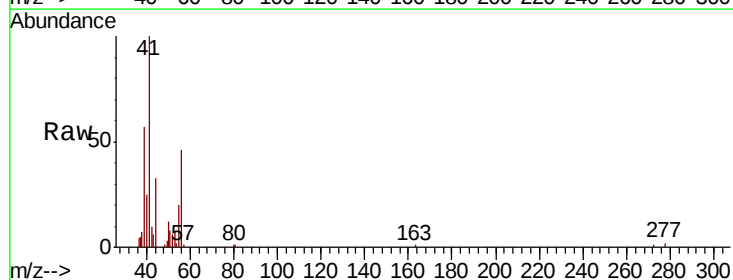
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

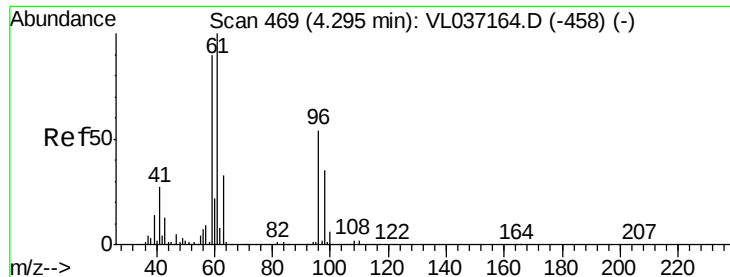
Tot Ion: 43 Resp: 517128
Ion Ratio Lower Upper
43 100
58 37.1 23.7 35.5#



#16
1,3-Butadiene
Concen: 0.077 ppbv
RT: 3.31 min Scan# 163
Delta R.T. -0.02 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Tgt Ion: 39 Resp: 7498
Ion Ratio Lower Upper
39 100
54 0.0 61.2 91.8#



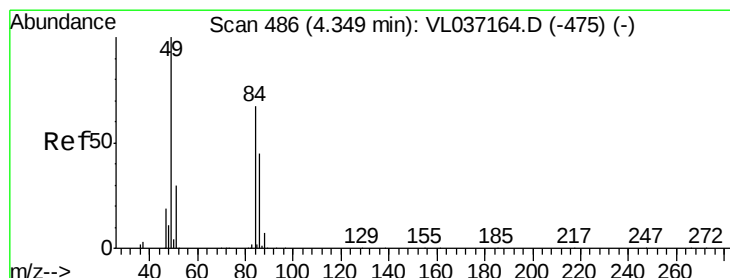
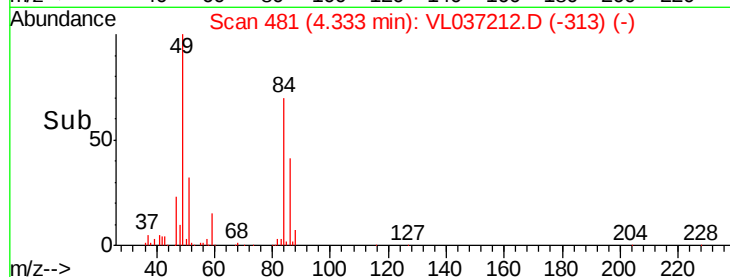
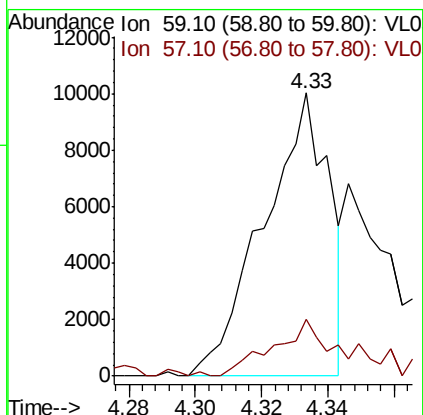
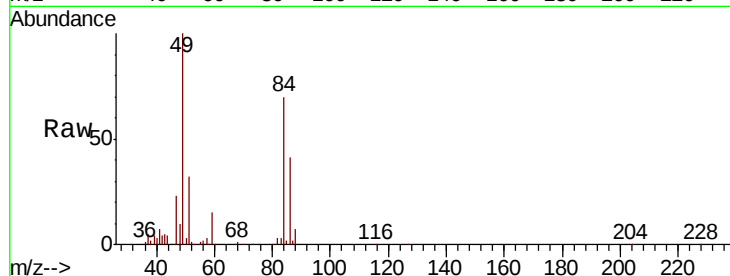


#17

tert-Butyl alcohol
Concen: 0.090 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.04 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Instrument :
MSVOA_L
ClientSampled :
SV2DL

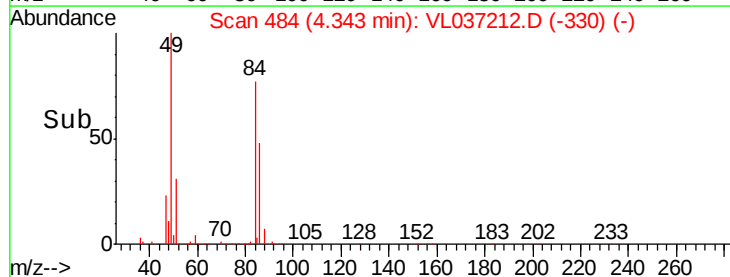
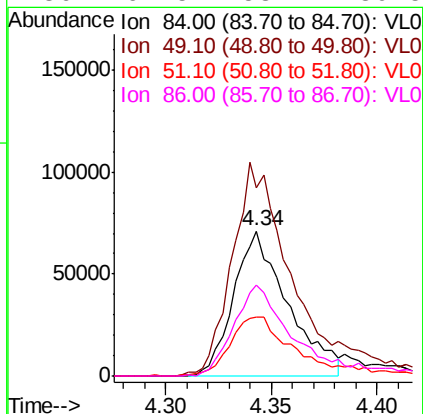
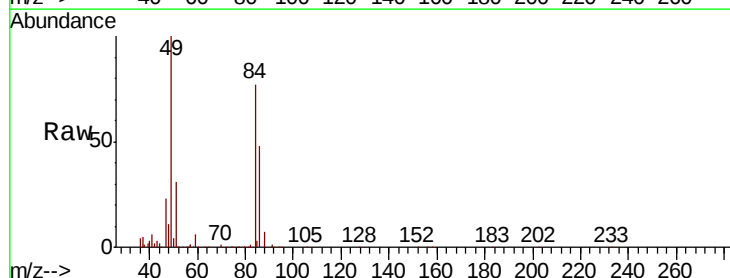
Tot Ion: 59 Resp: 13719
Ion Ratio Lower Upper
59 100
57 20.2 8.8 13.2#

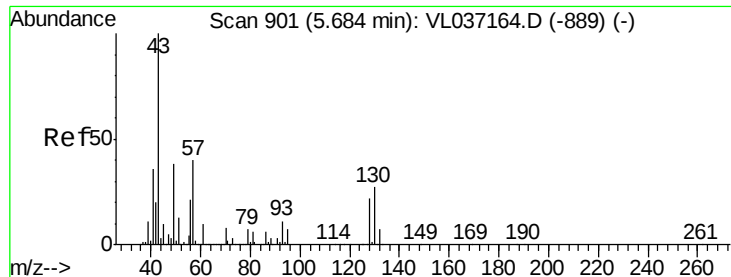


#20

Methylene Chloride
Concen: 1.288 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.01 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Tgt Ion: 84 Resp: 126672
Ion Ratio Lower Upper
84 100
49 127.3 119.7 179.5
51 39.8 36.1 54.1
86 62.5 53.7 80.5

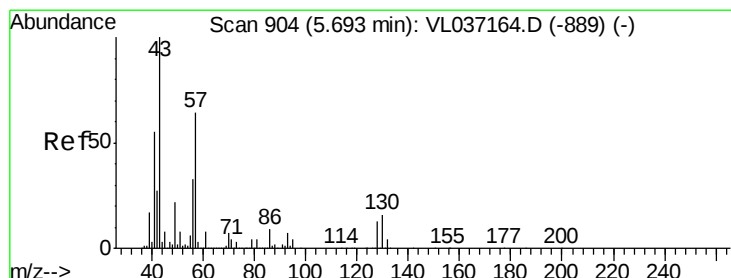
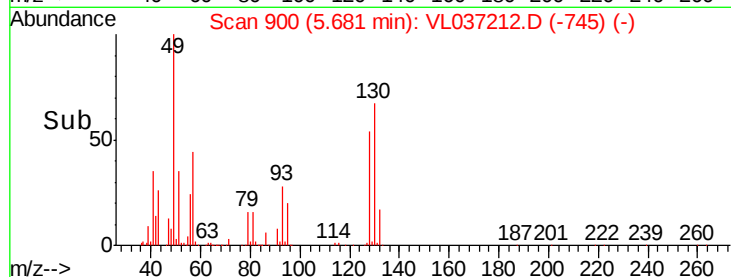
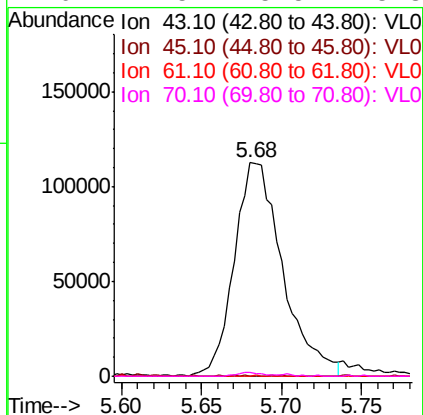
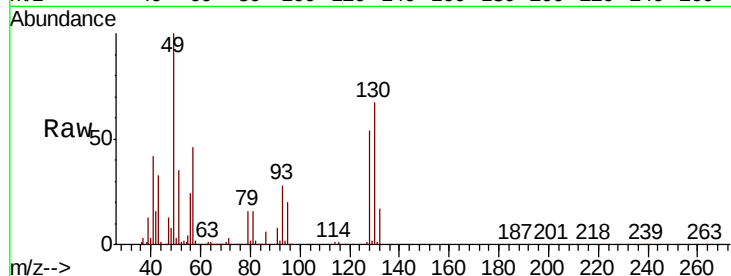




#25
Ethyl Acetate
Concen: 0.653 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

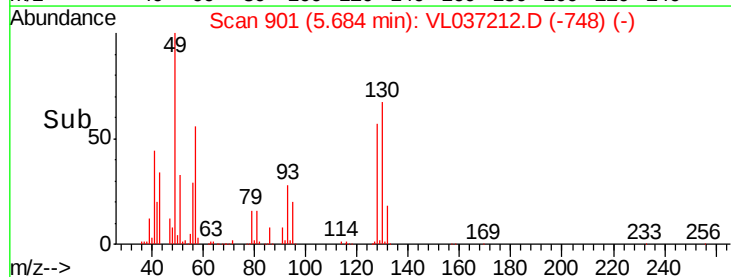
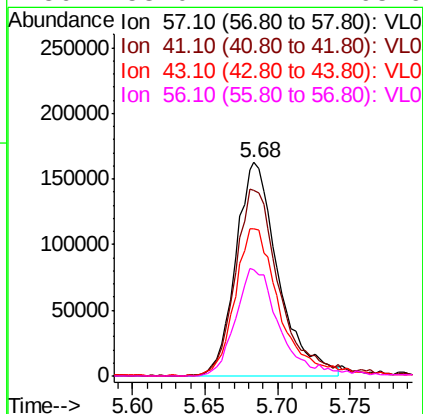
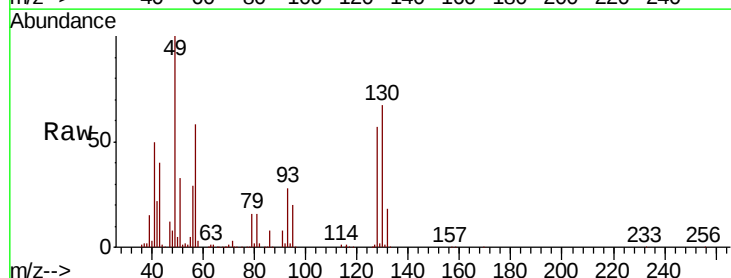
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

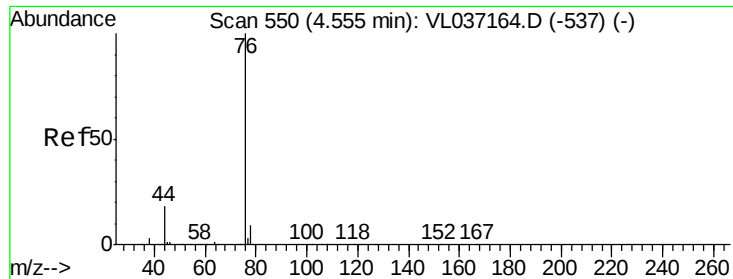
Tot Ion:	43	Resp:	232246
Ion	Ratio	Lower	Upper
43	100		
45	0.2	8.0	12.0#
61	0.1	8.1	12.1#
70	1.5	5.5	8.3#



#26
Hexane
Concen: 1.843 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Tgt Ion:	57	Resp:	331251
Ion	Ratio	Lower	Upper
57	100		
41	93.0	73.5	110.3
43	75.0	170.7	256.1#
56	53.0	42.4	63.6





#27

Carbon Disulfide

Concen: 0.159 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.01 min

Lab File: VL037212.D

Acq: 17 Jun 2021 21:58

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

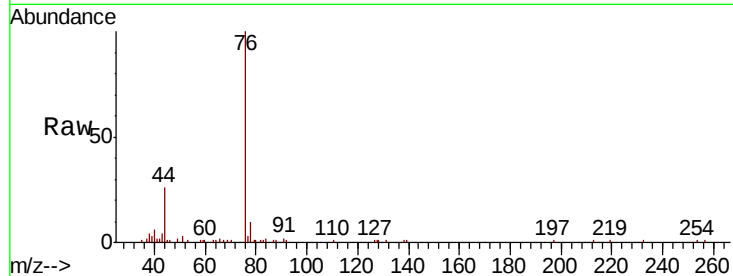
Tot Ion: 76 Resp: 28007

Ion Ratio Lower Upper

76 100

44 63.1 15.4 23.2#

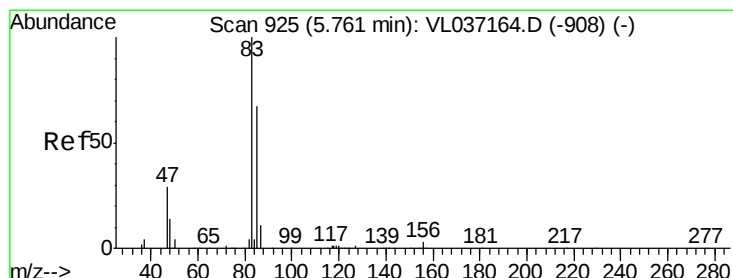
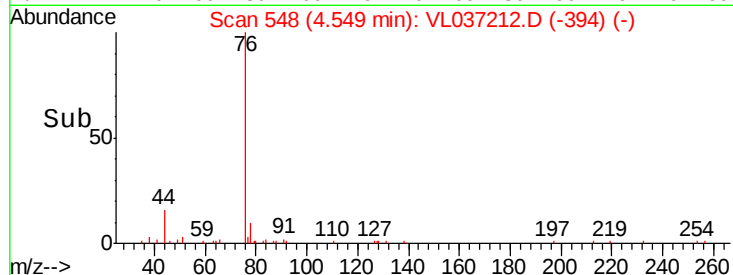
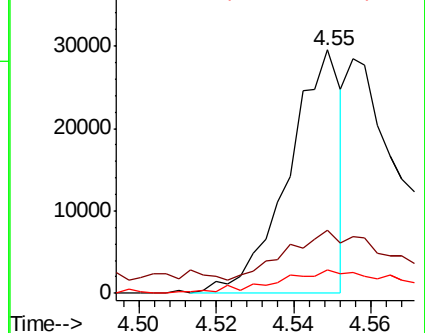
78 27.3 8.0 12.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#29

Chloroform

Concen: 0.086 ppbv

RT: 5.75 min Scan# 921

Delta R.T. -0.01 min

Lab File: VL037212.D

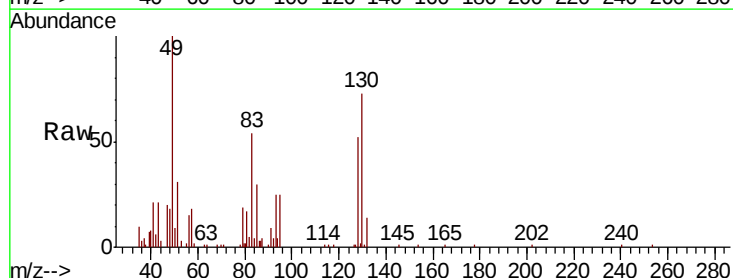
Acq: 17 Jun 2021 21:58

Tgt Ion: 83 Resp: 23840

Ion Ratio Lower Upper

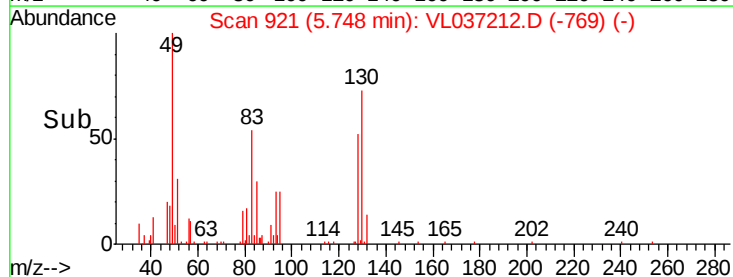
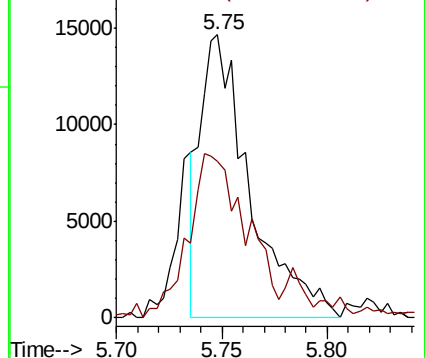
83 100

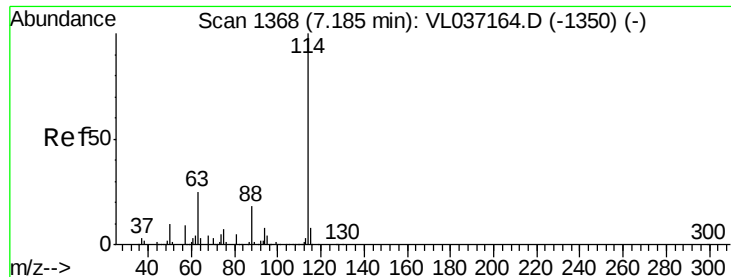
85 47.8 53.6 80.4#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

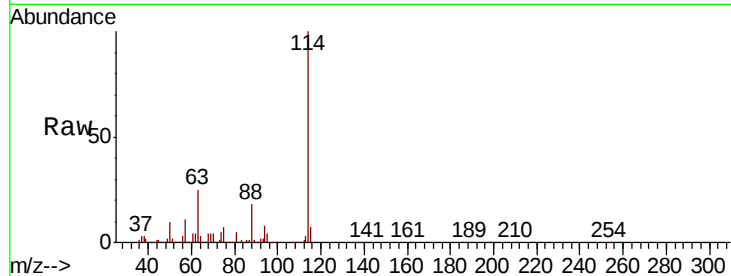




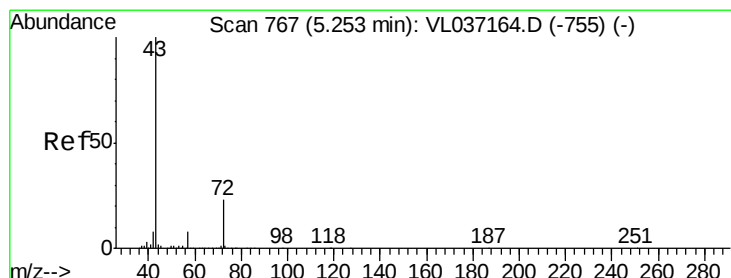
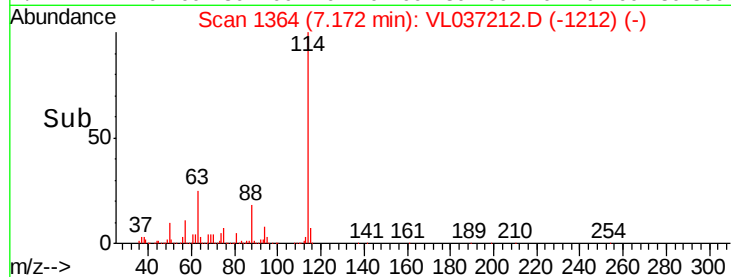
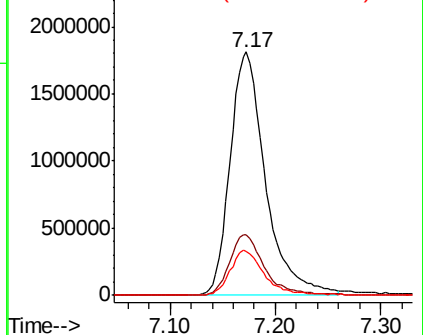
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL037212.D
 Acq: 17 Jun 2021 21:58

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Tot Ion:114 Resp: 4228498
 Ion Ratio Lower Upper
 114 100
 63 25.0 19.6 29.4
 88 18.2 14.2 21.2

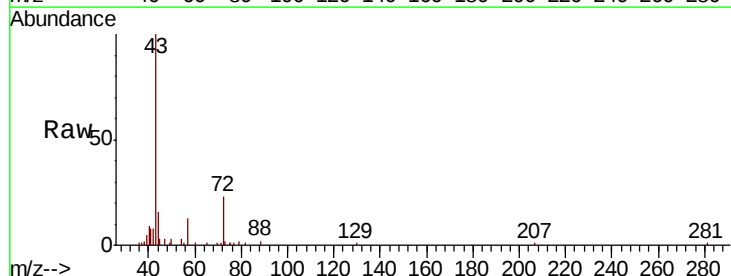


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

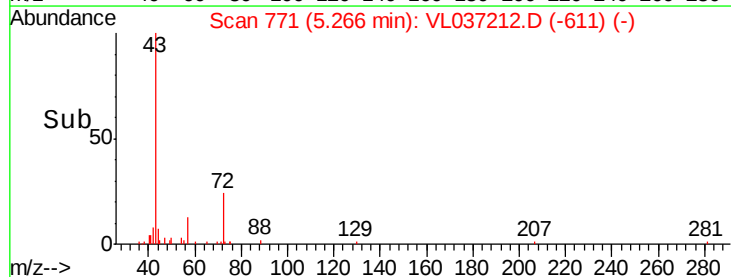
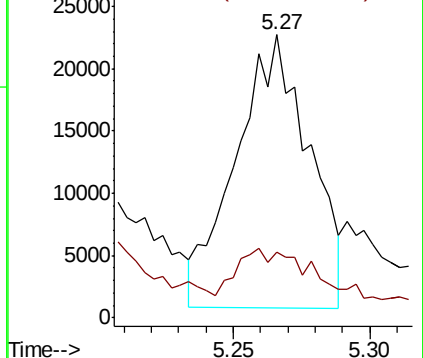


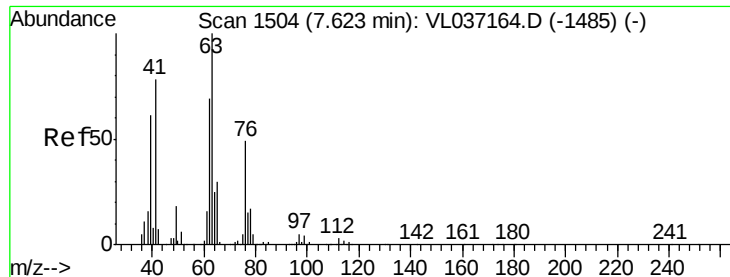
#34
 2-Butanone
 Concen: 0.248 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.01 min
 Lab File: VL037212.D
 Acq: 17 Jun 2021 21:58

Tgt Ion: 43 Resp: 40793
 Ion Ratio Lower Upper
 43 100
 72 42.8 18.9 28.3#



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





#39

1,2-Dichloropropane

Concen: 8.134 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.45 min

Lab File: VL037212.D

Acq: 17 Jun 2021 21:58

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

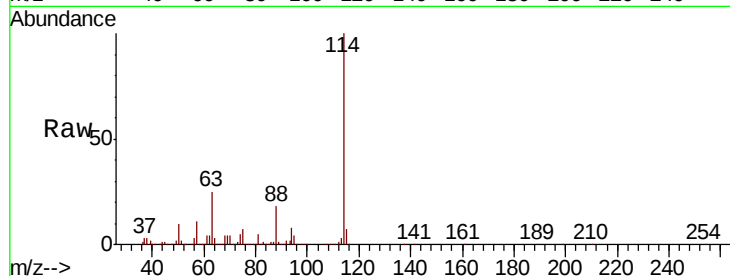
Tot Ion: 63 Resp: 1033540

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

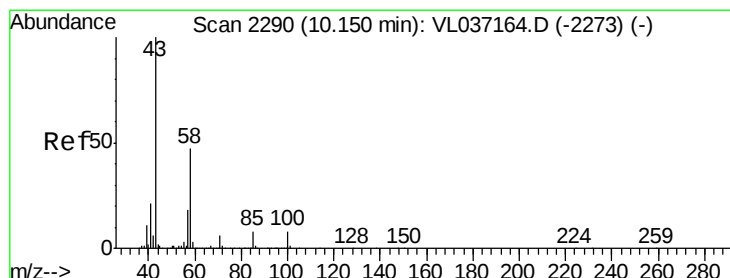
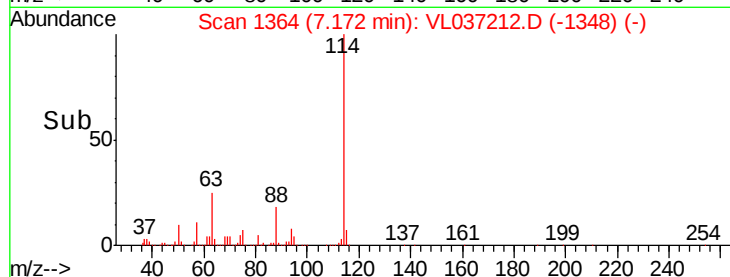
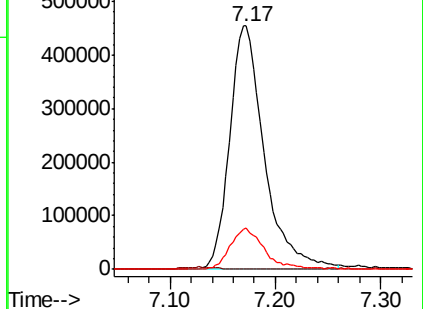
62 16.9 54.9 82.3#



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



#51

2-Hexanone

Concen: 0.072 ppbv

RT: 10.12 min Scan# 2281

Delta R.T. -0.03 min

Lab File: VL037212.D

Acq: 17 Jun 2021 21:58

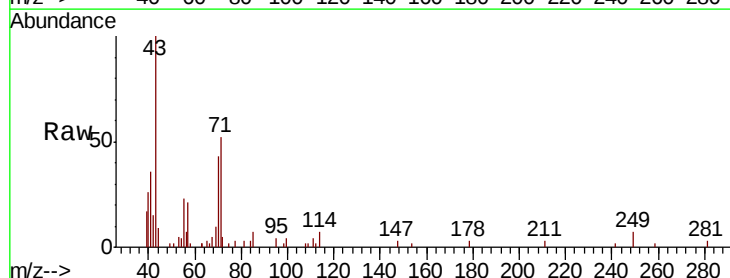
Tgt Ion: 43 Resp: 7886

Ion Ratio Lower Upper

43 100

58 0.0 38.4 57.6#

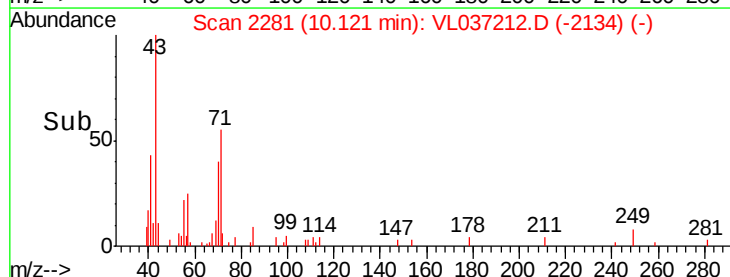
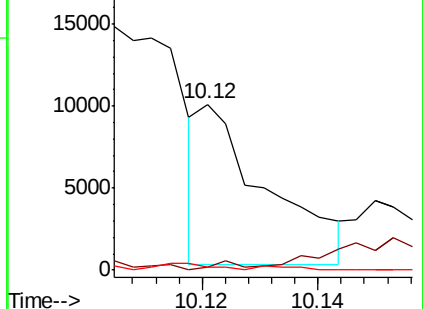
98 0.0 0.3 0.5#

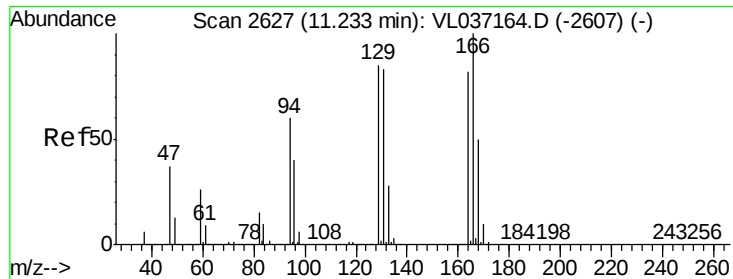


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0

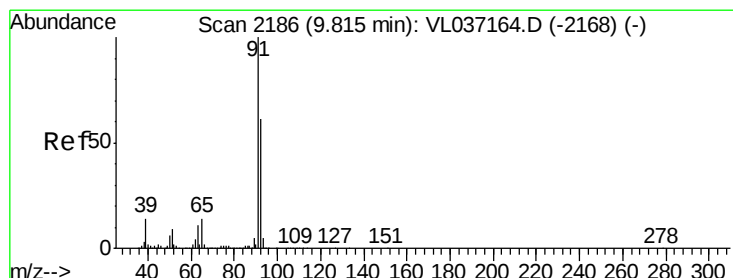
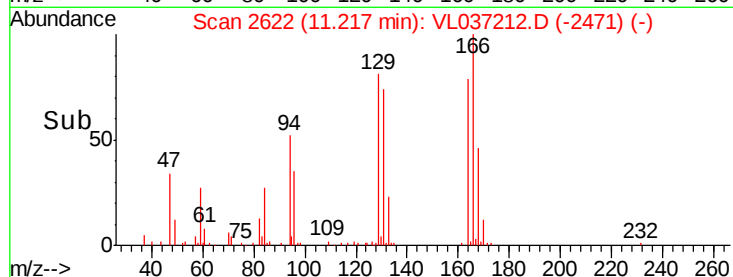
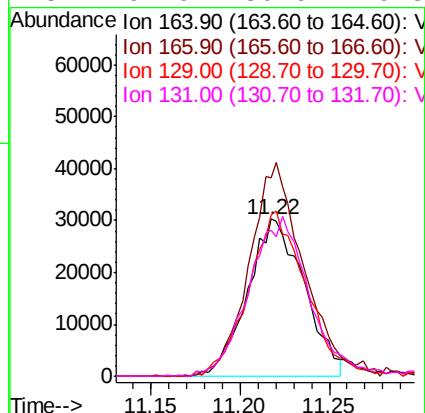
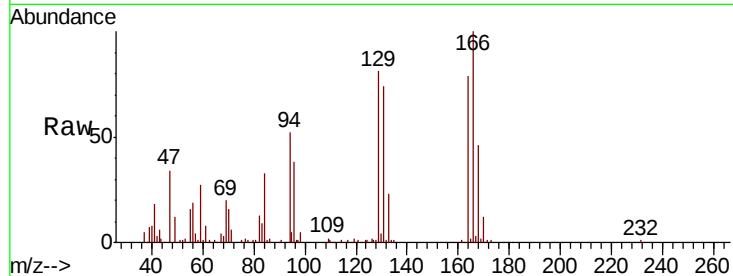




#52
Tetrachloroethene
Concen: 0.422 ppbv
RT: 11.22 min Scan# 2622
Delta R.T. -0.02 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

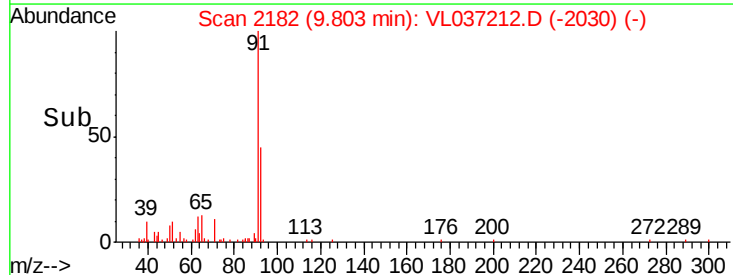
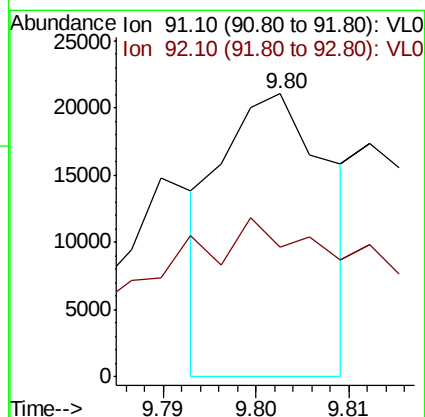
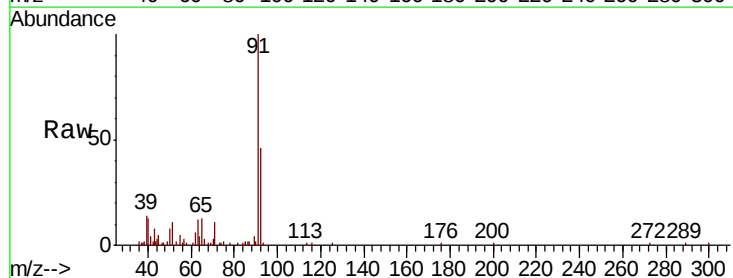
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

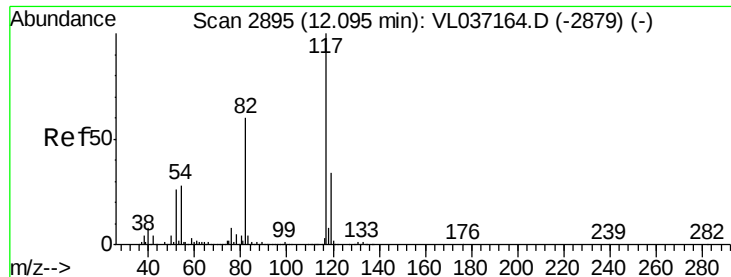
Tot Ion:164 Resp: 67005
Ion Ratio Lower Upper
164 100
166 126.0 97.6 146.4
129 102.5 82.9 124.3
131 92.9 80.6 120.8



#53
Toluene
Concen: 0.042 ppbv
RT: 9.80 min Scan# 2182
Delta R.T. -0.01 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Tgt Ion: 91 Resp: 17206
Ion Ratio Lower Upper
91 100
92 150.1 48.3 72.5#

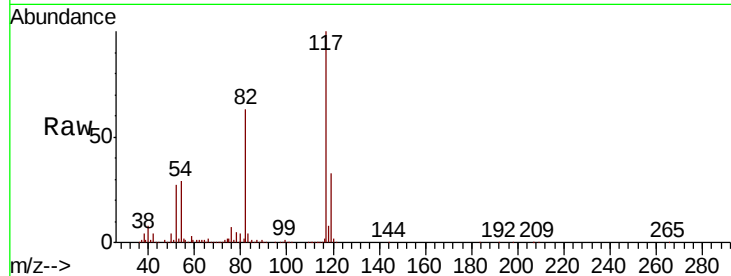




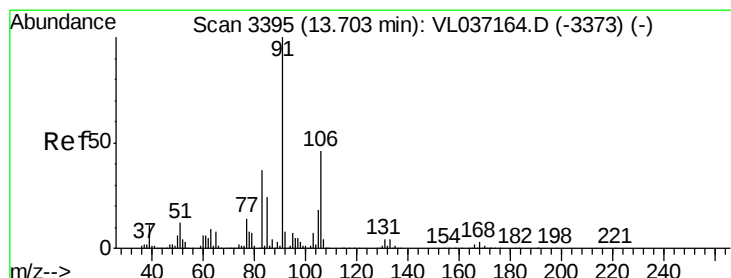
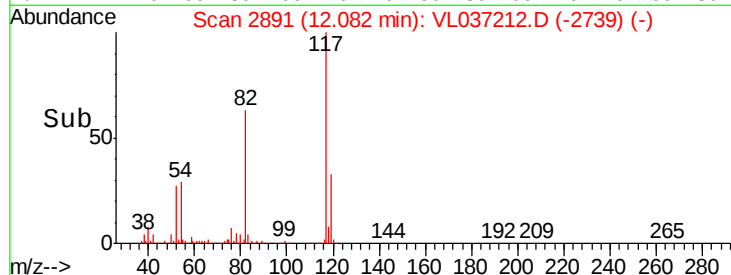
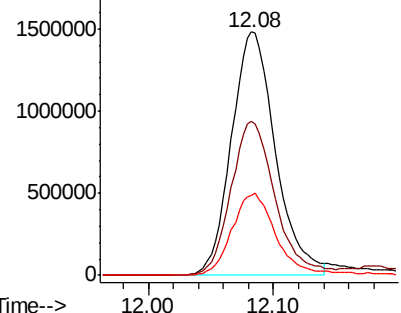
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tot Ion:117 Resp: 3623394
Ion Ratio Lower Upper
117 100
82 63.9 51.7 77.5
119 35.3 47.6 71.4#

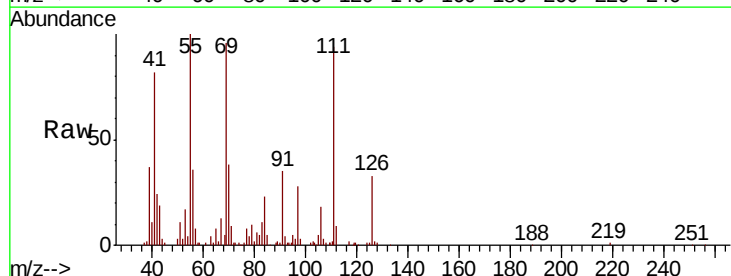


Abundance Ion 117.10 (116.80 to 117.80): V
2000000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

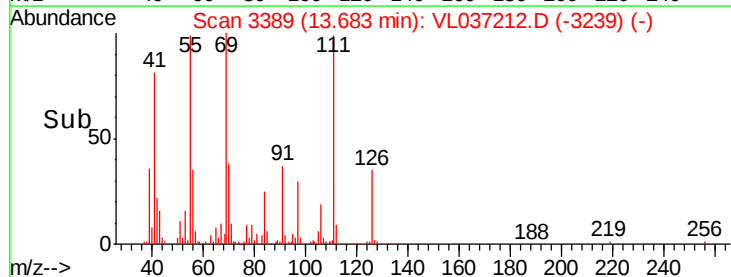
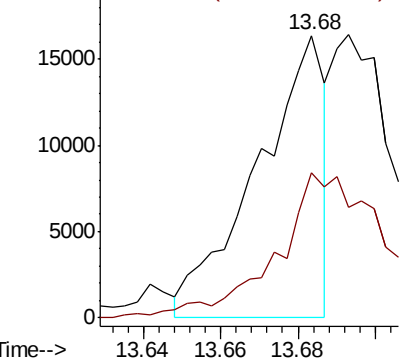


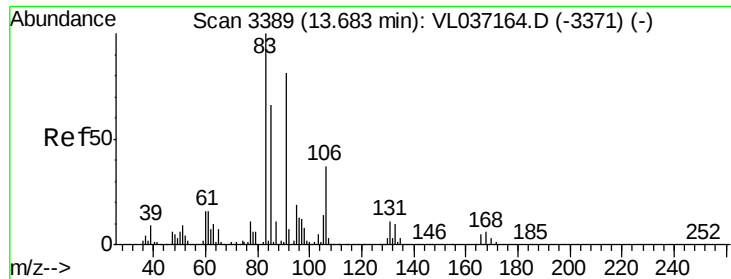
#60
o-Xylene
Concen: 0.050 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. -0.02 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Tgt Ion: 91 Resp: 19935
Ion Ratio Lower Upper
91 100
106 86.4 23.0 69.0#



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





#63

1,1,2,2-Tetrachloroethane

Concen: 0.054 ppbv

RT: 13.66 min Scan# 3382

Delta R.T. -0.02 min

Lab File: VL037212.D

Acq: 17 Jun 2021 21:58

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

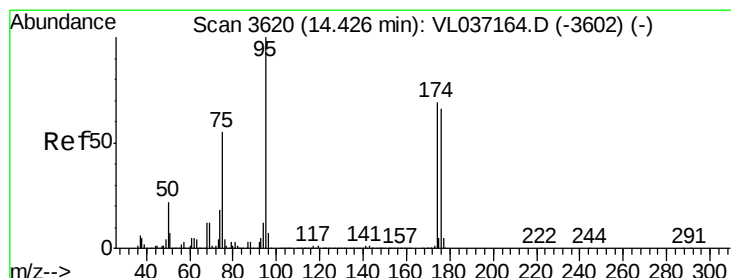
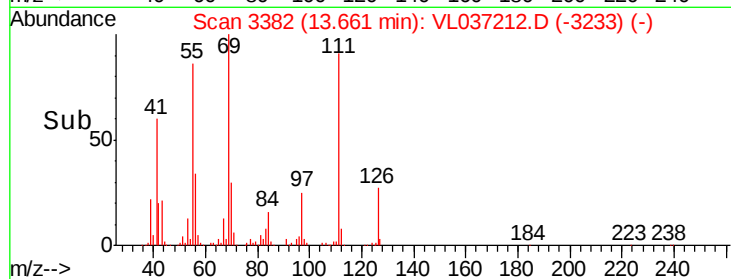
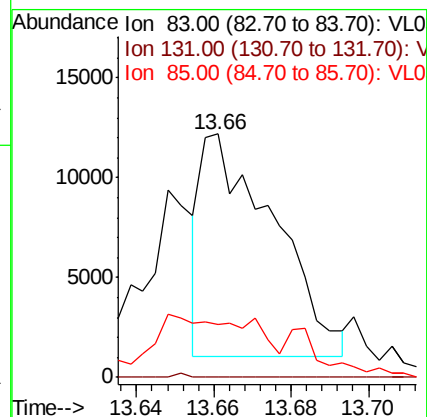
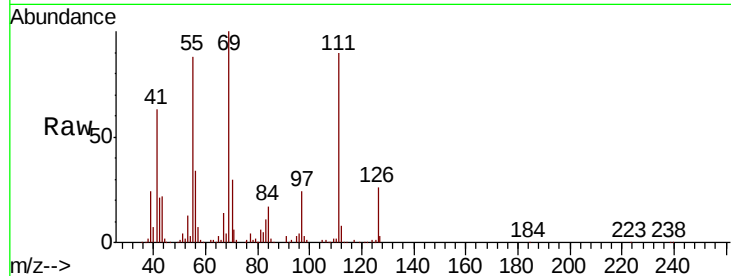
Tot Ion: 83 Resp: 14477

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

85 0.0 33.1 99.2#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.186 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. -0.01 min

Lab File: VL037212.D

Acq: 17 Jun 2021 21:58

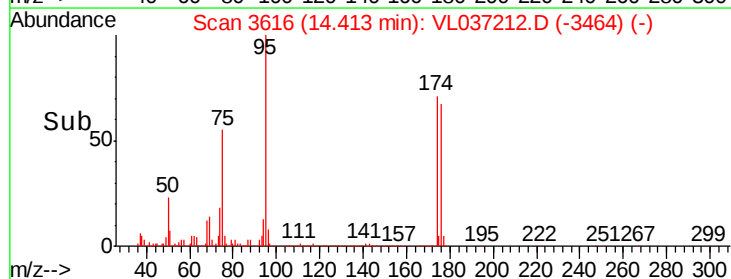
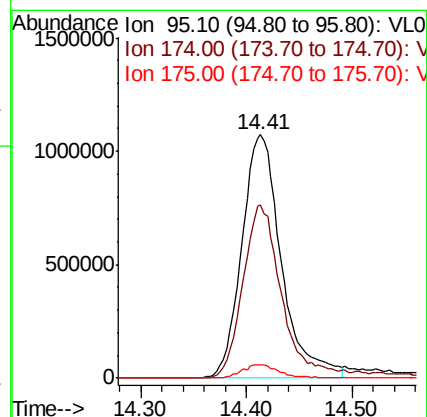
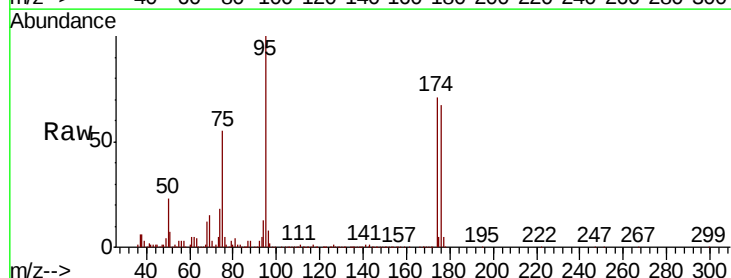
Tgt Ion: 95 Resp: 2796720

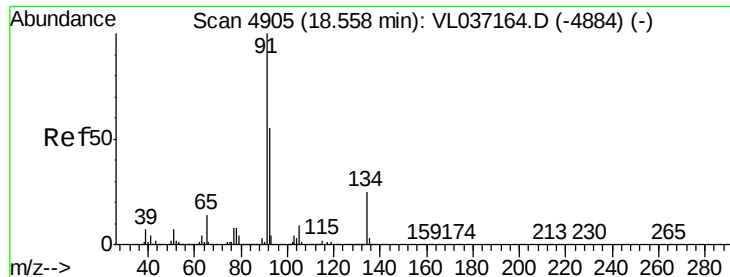
Ion Ratio Lower Upper

95 100

174 74.7 57.0 85.4

175 5.5 4.4 6.6





#70

n-Butylbenzene

Concen: 0.080 ppbv

RT: 18.55 min Scan# 4903

Delta R.T. -0.01 min

Lab File: VL037212.D

Acq: 17 Jun 2021 21:58

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

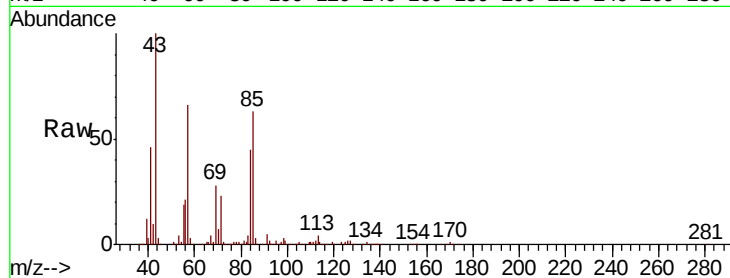
Tot Ion: 91 Resp: 42152

Ion Ratio Lower Upper

91 100

92 72.8 44.0 66.0#

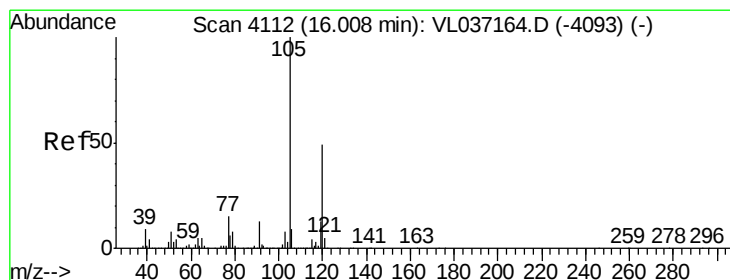
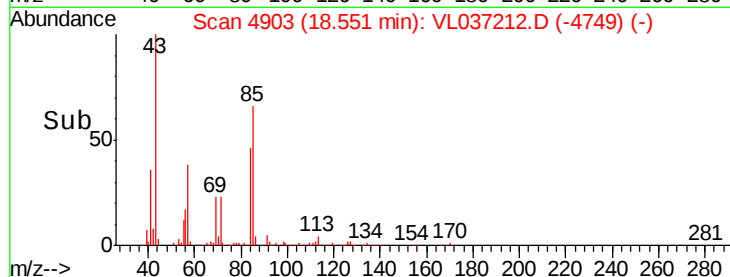
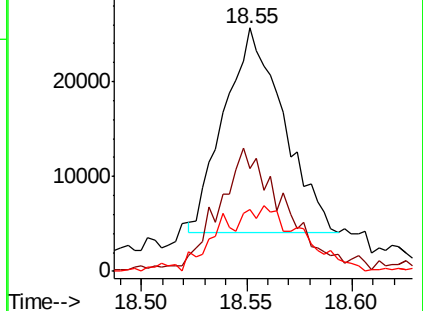
134 46.0 20.2 30.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V



#73

1,3,5-Trimethylbenzene

Concen: 0.021 ppbv

RT: 15.99 min Scan# 4105

Delta R.T. -0.02 min

Lab File: VL037212.D

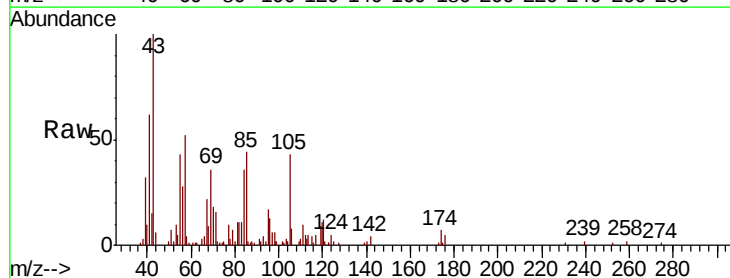
Acq: 17 Jun 2021 21:58

Tgt Ion:105 Resp: 9079

Ion Ratio Lower Upper

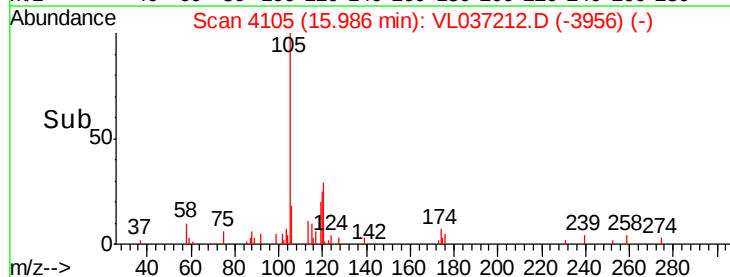
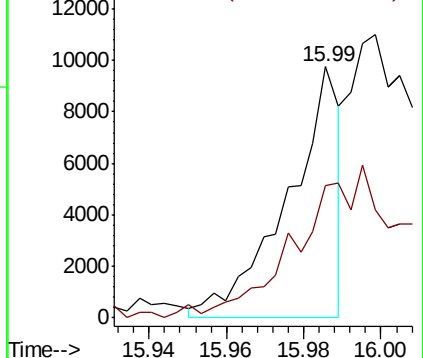
105 100

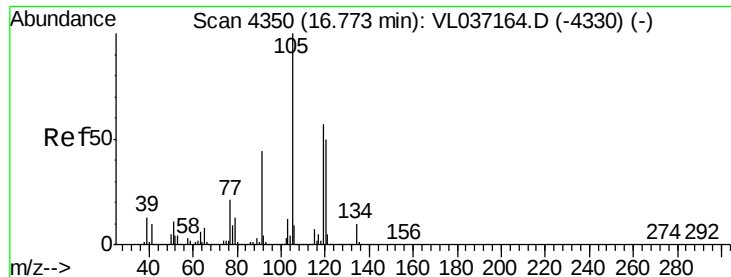
120 49.5 39.4 59.2



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: 0.129 ppbv
 RT: 16.76 min Scan# 4346
 Delta R.T. -0.01 min
 Lab File: VL037212.D
 Acq: 17 Jun 2021 21:58

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Tot Ion:	105	Resp:	58630
Ion Ratio	Lower	Upper	
105	100		
120	49.6	39.8	59.8
91	6.8	37.0	55.4#
77	13.1	17.0	25.4#

