

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL063020\
 Data File : VL035128.D
 Acq On : 30 Jun 2020 16:58
 Operator : SY/AP
 Sample : L3124-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 01 02:59:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun 20 02:10:36 2020
 QLast Update : Sat Jun 20 02:10:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1372710	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	3201183	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.12	117	3045435	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2539227	10.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

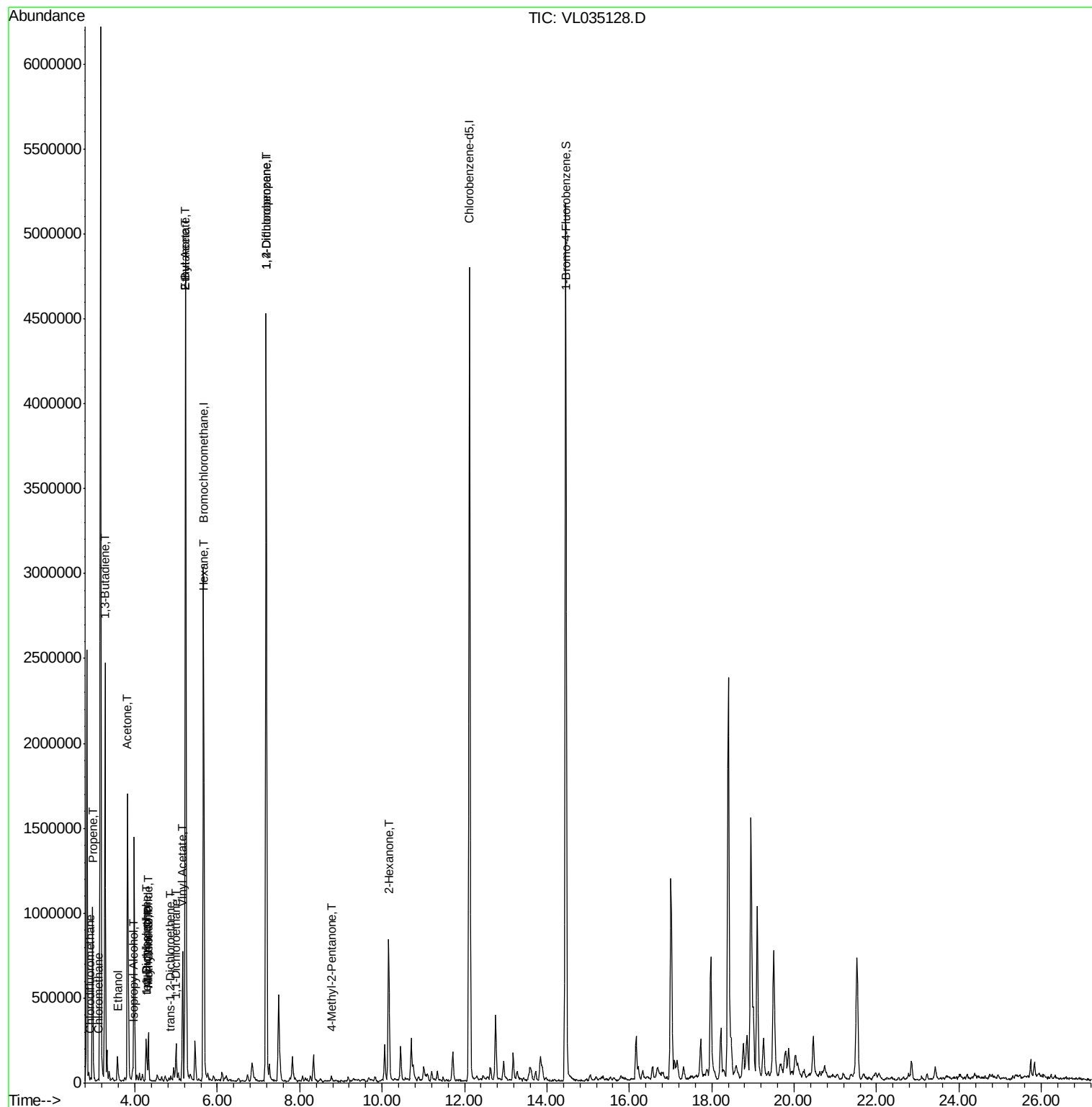
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.92	51	15709	0.104	ppbv #	60
4) Chloromethane	3.11	50	2979	0.035	ppbv	100
9) Propene	2.97	41	395525	6.587	ppbv	100
13) Ethanol	3.58	45	146201	6.445	ppbv	96
15) Acetone	3.82	43	1601401	9.649	ppbv #	57
16) 1,3-Butadiene	3.28	39	570932	7.844	ppbv #	14
17) tert-Butyl alcohol	4.28	59	166431	1.132	ppbv	96
18) 1,1-Dichloroethene	4.27	96	10216	0.165	ppbv	82
19) Isopropyl Alcohol	3.95	45	77169	0.716	ppbv #	93
20) Methylene Chloride	4.33	84	89601	1.334	ppbv	89
21) Allyl Chloride	4.32	41	4014	0.041	ppbv #	24
22) trans-1,2-Dichloroethene	4.87	96	3621	0.063	ppbv #	73
23) Vinyl Acetate	5.16	43	233673	1.160	ppbv #	12
24) 1,1-Dichloroethane	5.00	63	171491	1.010	ppbv	96
25) Ethyl Acetate	5.23	43	5634292	18.811	ppbv #	75
26) Hexane	5.68	57	47982	0.355	ppbv #	1
34) 2-Butanone	5.23	43	5634292	30.649	ppbv	97
39) 1,2-Dichloropropane	7.19	63	847169	8.738	ppbv #	24
50) 4-Methyl-2-Pentanone	8.76	43	9092	0.035	ppbv #	38
51) 2-Hexanone	10.16	43	709645	3.469	ppbv #	98

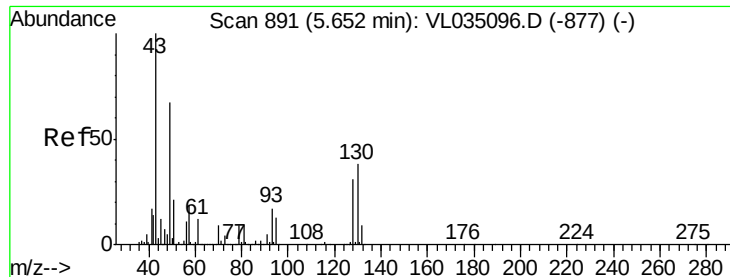
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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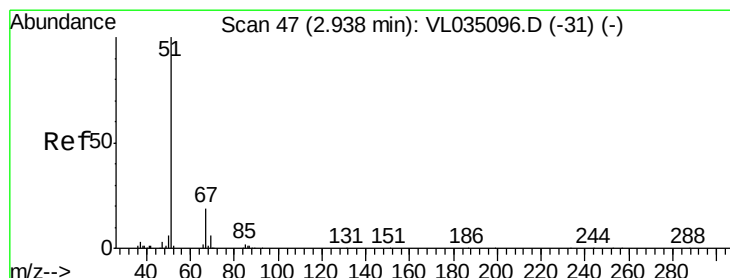
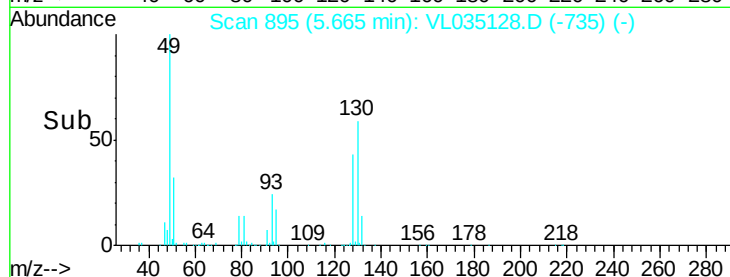
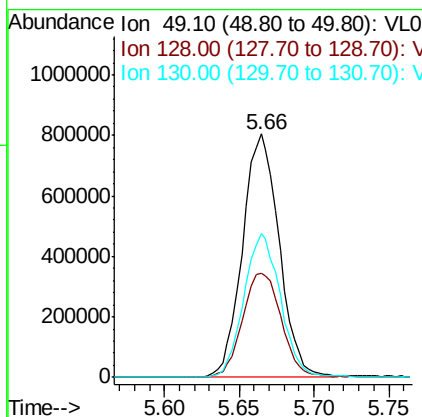
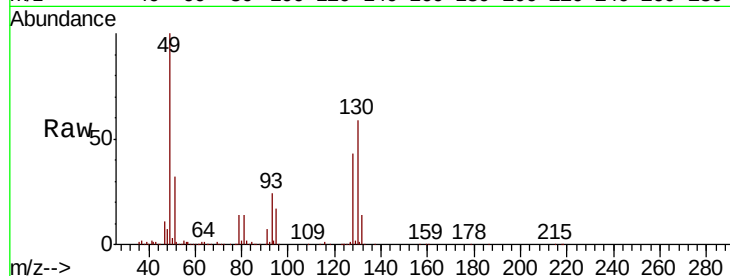




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.01 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

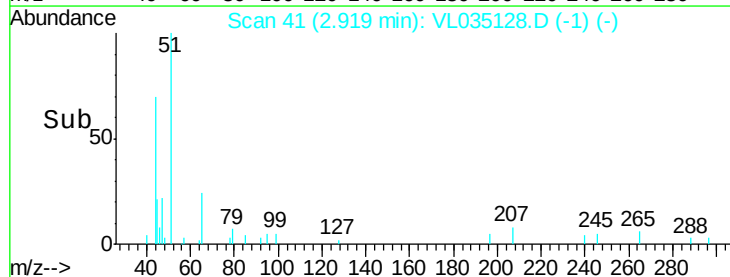
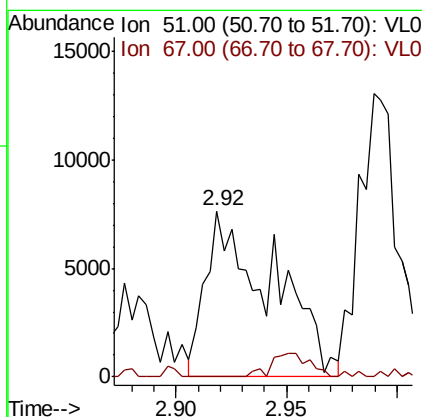
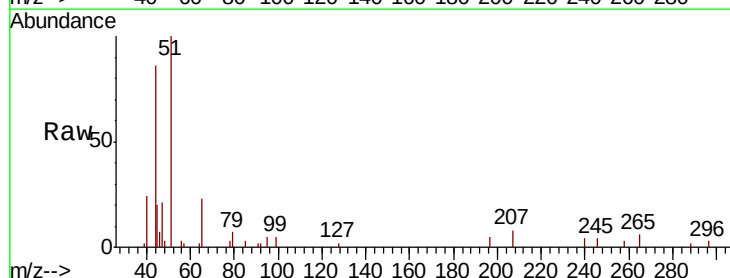
Instrument :
MSVOA_L
ClientSampleId :

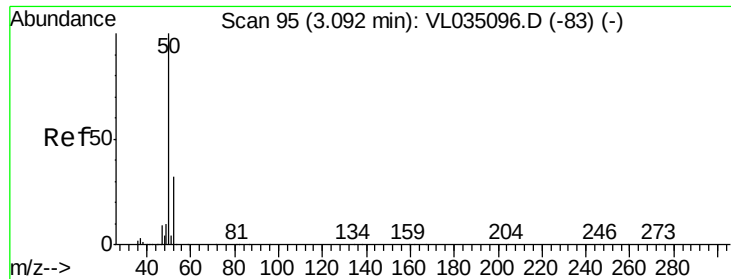
Tot Ion: 49 Resp: 1372710
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 59.3 29.0 87.0



#3
Chlorodifluoromethane
Concen: 0.104 ppbv
RT: 2.92 min Scan# 41
Delta R.T. -0.02 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

Tgt Ion: 51 Resp: 15709
Ion Ratio Lower Upper
51 100
67 1.1 15.2 22.8#

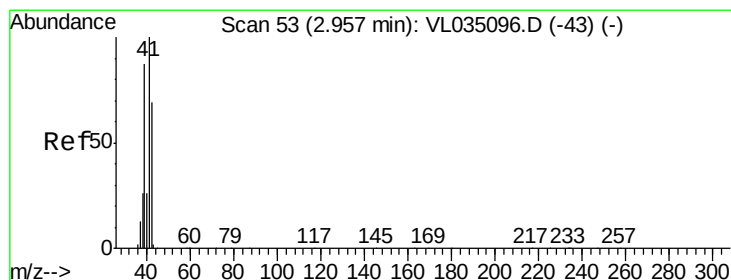
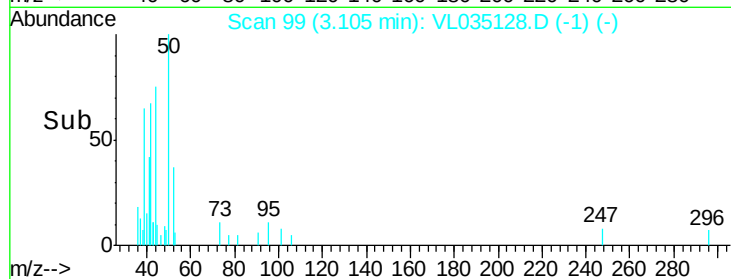
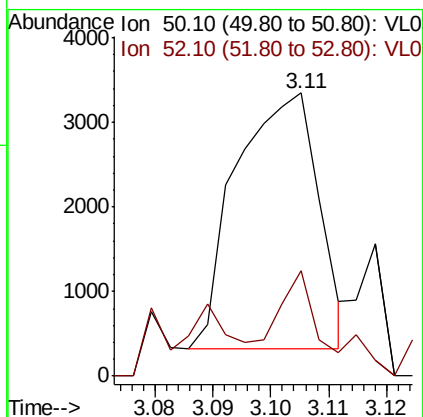
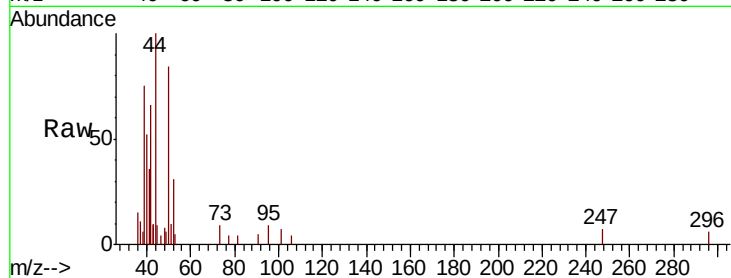




#4
Chloromethane
Concen: 0.035 ppbv
RT: 3.11 min Scan# 99
Delta R.T. 0.01 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

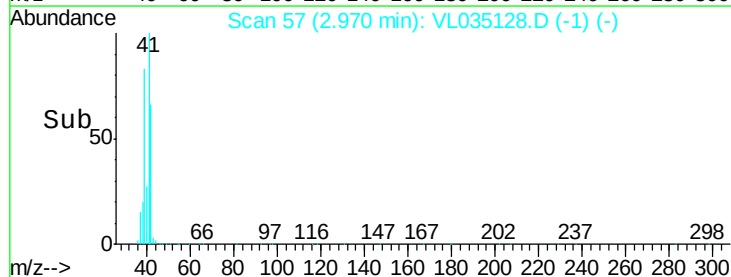
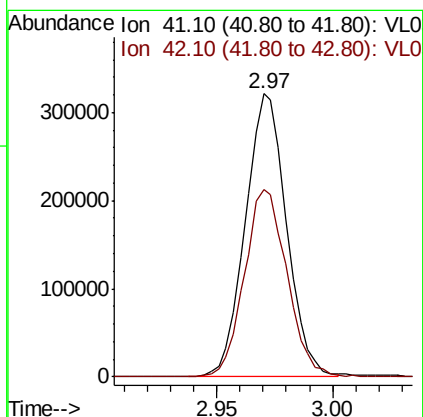
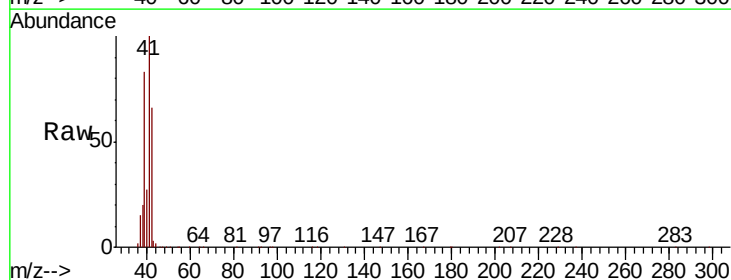
Instrument :
MSVOA_L
ClientSampleId :

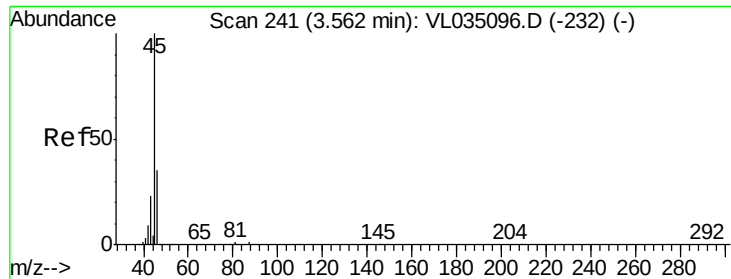
Tot Ion: 50 Resp: 2979
Ion Ratio Lower Upper
50 100
52 31.8 25.4 38.0



#9
Propene
Concen: 6.587 ppbv
RT: 2.97 min Scan# 57
Delta R.T. 0.01 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

Tgt Ion: 41 Resp: 395525
Ion Ratio Lower Upper
41 100
42 69.3 55.8 83.6

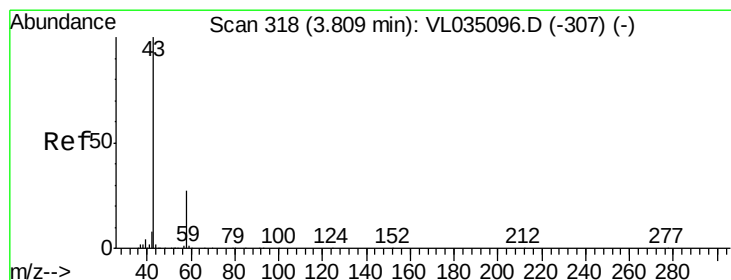
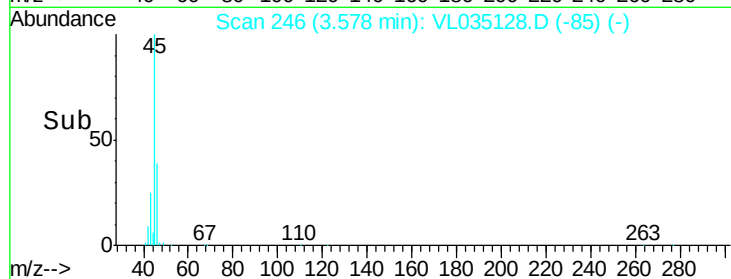
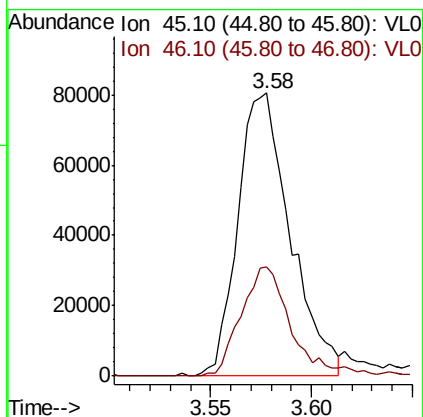
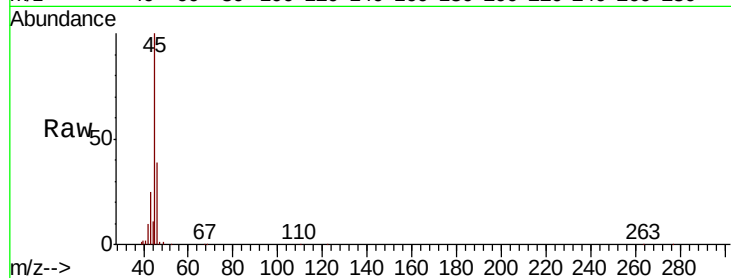




#13
Ethanol
Concen: 6.445 ppbv
RT: 3.58 min Scan# 246
Delta R.T. 0.02 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

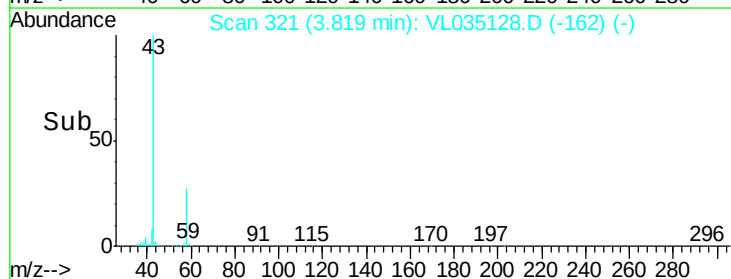
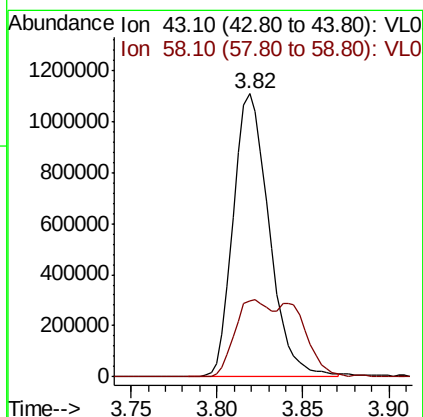
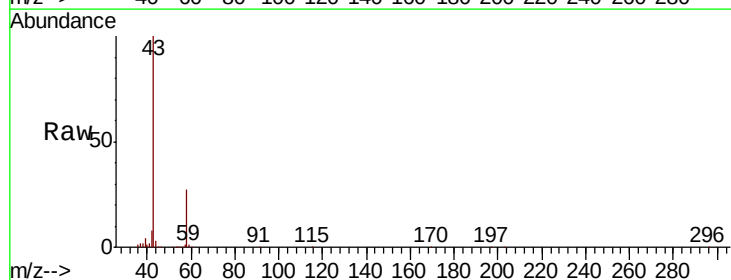
Instrument :
MSVOA_L
ClientSampleId :

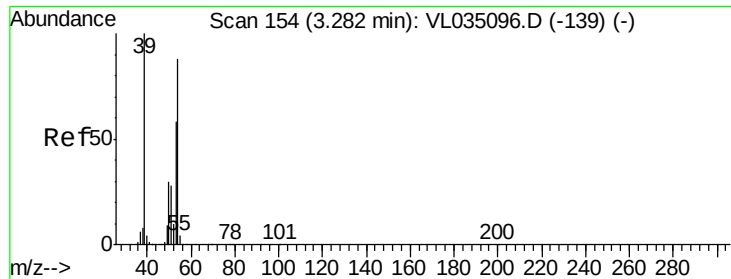
Tot Ion: 45 Resp: 146201
Ion Ratio Lower Upper
45 100
46 37.7 14.2 57.0



#15
Acetone
Concen: 9.649 ppbv
RT: 3.82 min Scan# 321
Delta R.T. 0.01 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

Tgt Ion: 43 Resp: 1601401
Ion Ratio Lower Upper
43 100
58 49.7 21.8 32.6#





#16

1,3-Butadiene

Concen: 7.844 ppbv

RT: 3.28 min Scan# 152

Delta R.T. -0.01 min

Lab File: VL035128.D

Acq: 30 Jun 2020 16:58

Instrument :

MSVOA_L

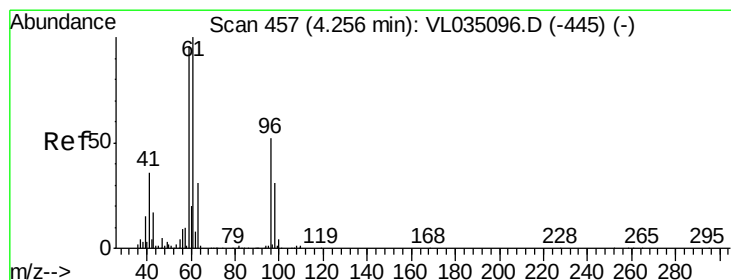
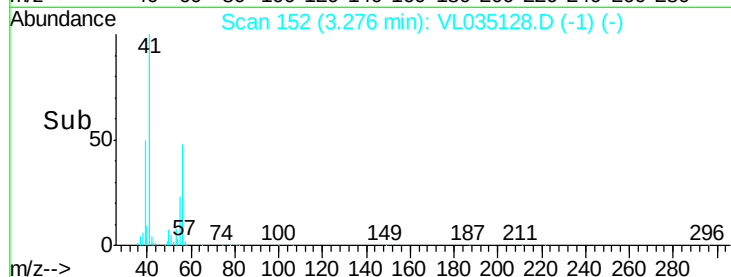
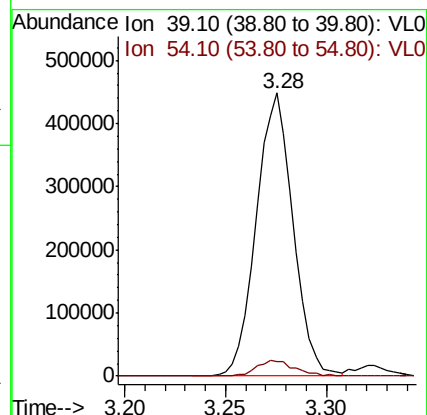
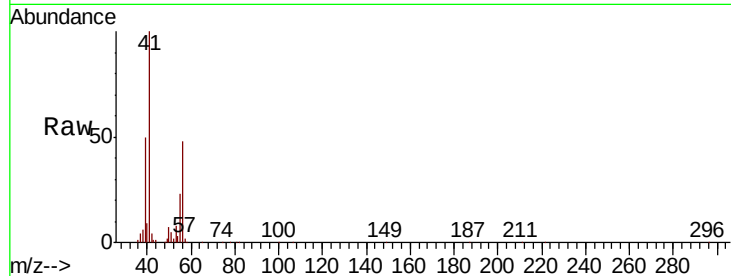
ClientSampleId :

Tot Ion: 39 Resp: 570932

Ion Ratio Lower Upper

39 100

54 6.1 67.0 100.4#



#17

tert-Butyl alcohol

Concen: 1.132 ppbv

RT: 4.28 min Scan# 463

Delta R.T. 0.02 min

Lab File: VL035128.D

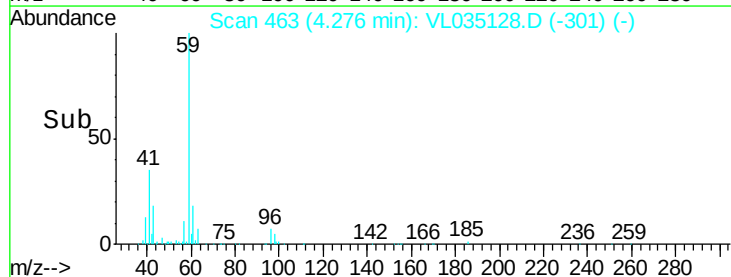
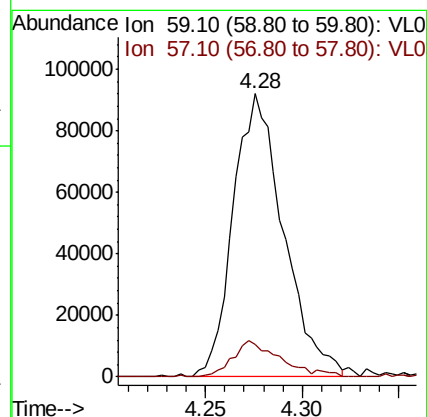
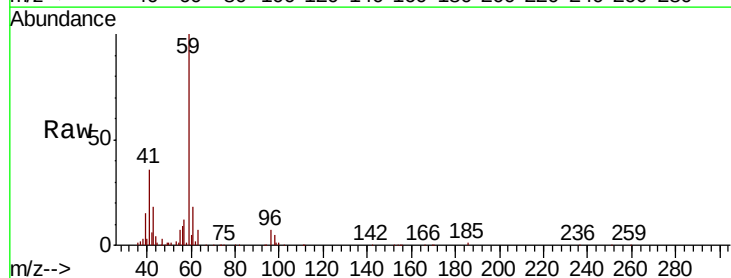
Acq: 30 Jun 2020 16:58

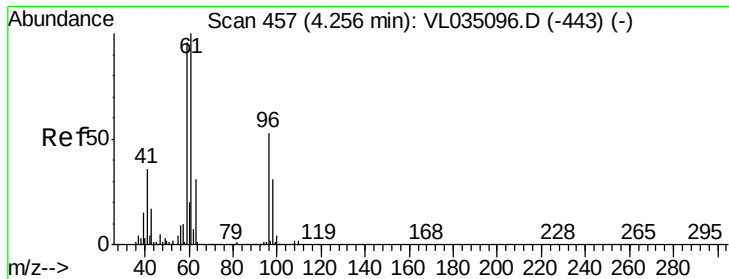
Tgt Ion: 59 Resp: 166431

Ion Ratio Lower Upper

59 100

57 12.4 8.6 12.8

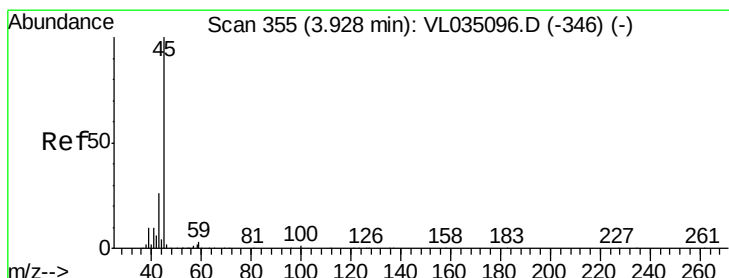
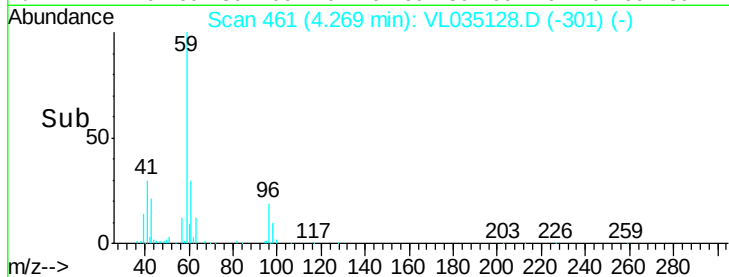
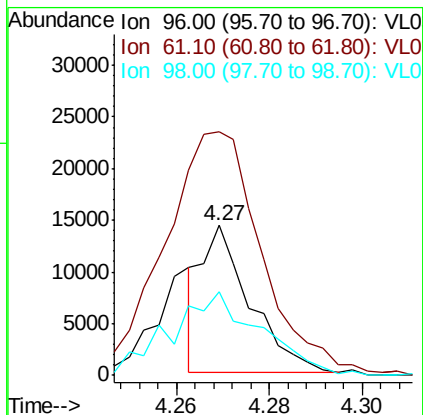
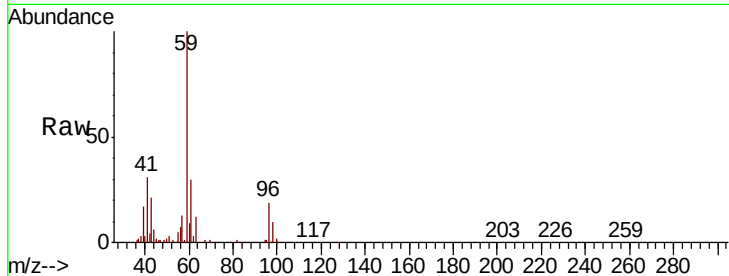




#18
 1,1-Dichloroethene
 Concen: 0.165 ppbv
 RT: 4.27 min Scan# 461
 Delta R.T. 0.01 min
 Lab File: VL035128.D
 Acq: 30 Jun 2020 16:58

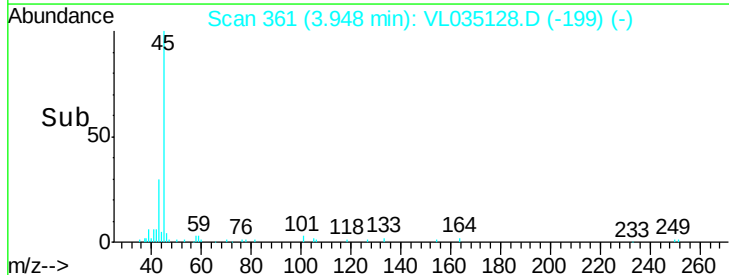
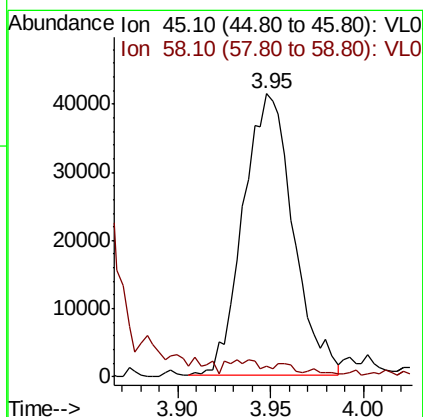
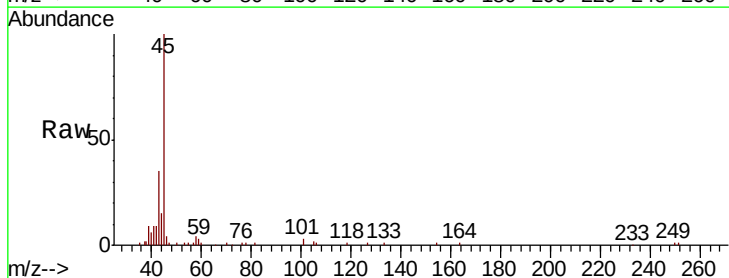
Instrument :
 MSVOA_L
 ClientSampleId :

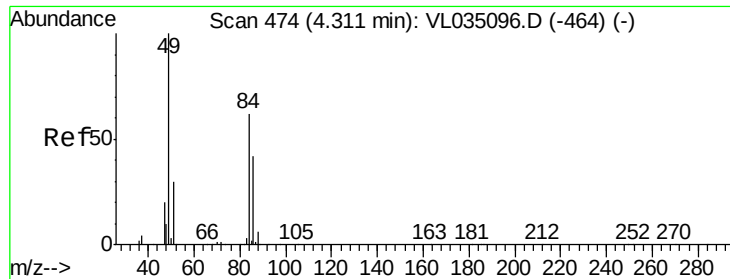
Tot Ion: 96 Resp: 10216
 Ion Ratio Lower Upper
 96 100
 61 157.9 152.2 228.4
 98 55.1 47.7 71.5



#19
 Isopropyl Alcohol
 Concen: 0.716 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.02 min
 Lab File: VL035128.D
 Acq: 30 Jun 2020 16:58

Tgt Ion: 45 Resp: 77169
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.8 2.8#

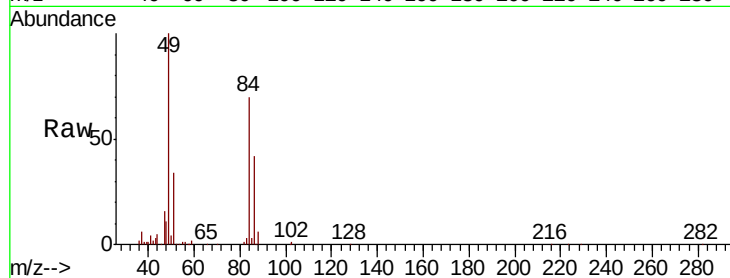




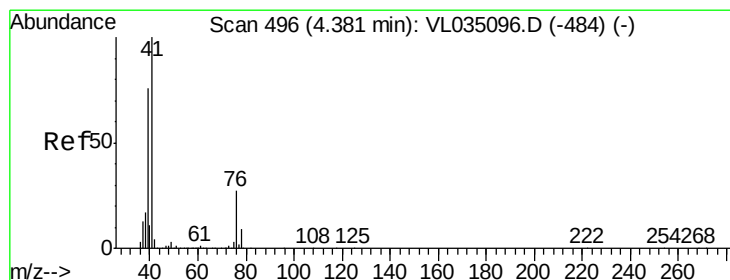
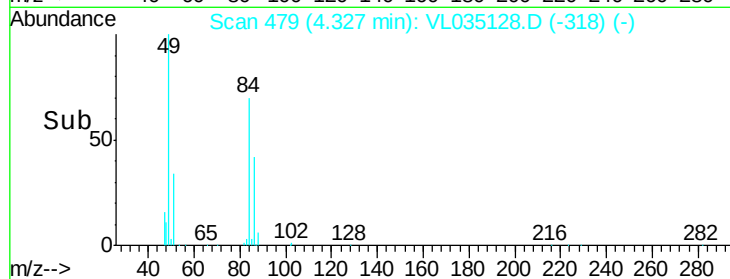
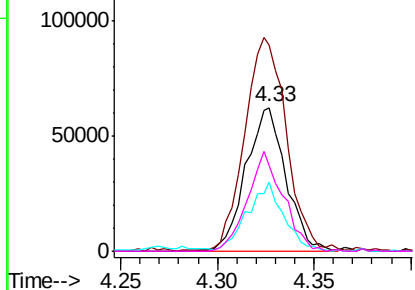
#20
Methylene Chloride
Concen: 1.334 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.02 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	84	Resp:	89601
Ion	Ratio	Lower	Upper
84	100		
49	142.5	128.8	193.2
51	46.7	38.7	58.1
86	59.8	54.1	81.1

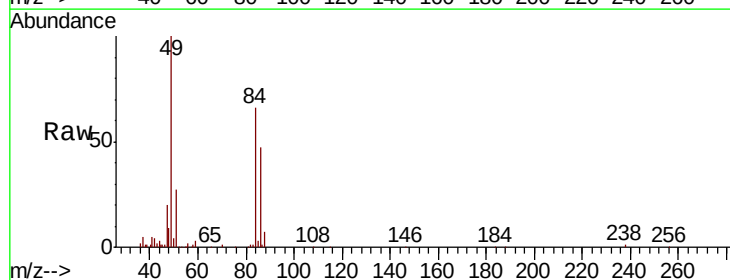


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

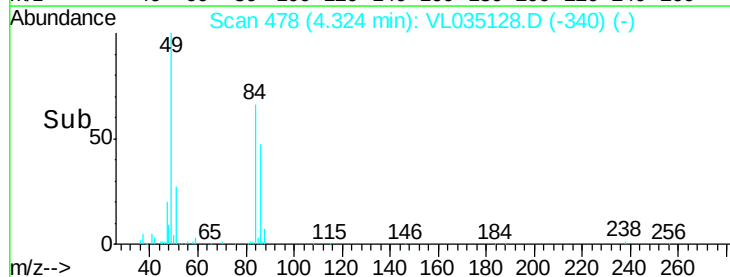
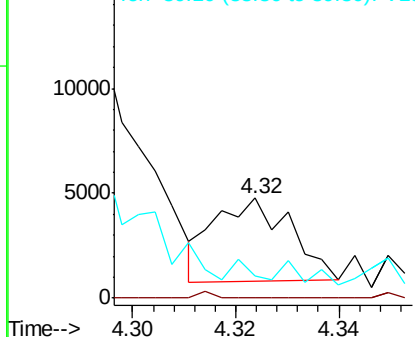


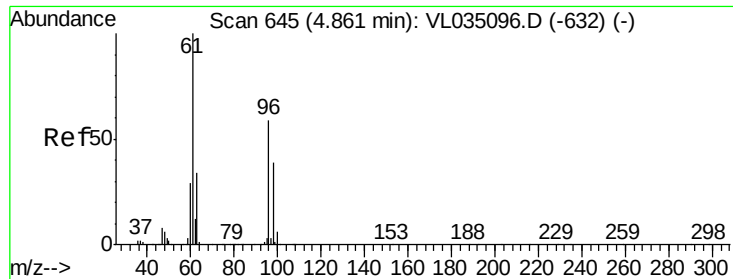
#21
Allyl Chloride
Concen: 0.041 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.06 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

Tgt Ion:	41	Resp:	4014
Ion	Ratio	Lower	Upper
41	100		
76	49.7	22.6	34.0#
39	0.0	61.6	92.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.063 ppbv

RT: 4.87 min Scan# 649

Delta R.T. 0.01 min

Lab File: VL035128.D

Acq: 30 Jun 2020 16:58

Instrument :

MSVOA_L

ClientSampled :

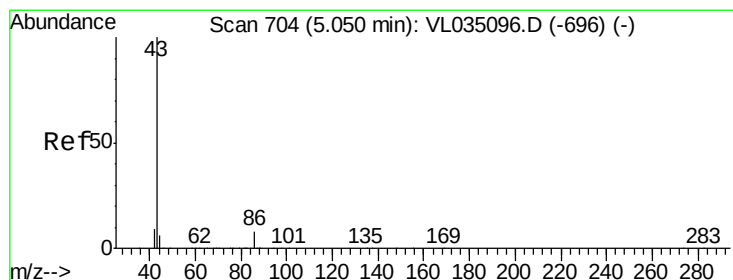
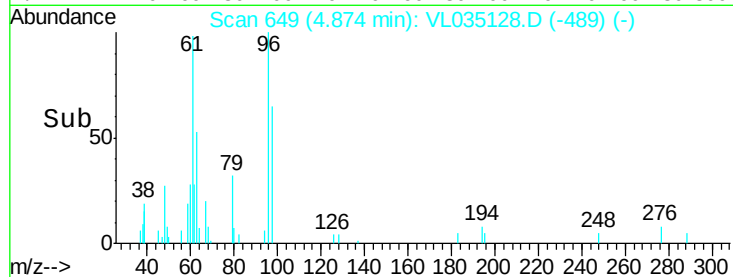
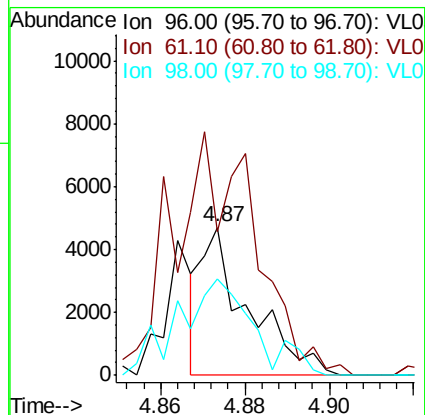
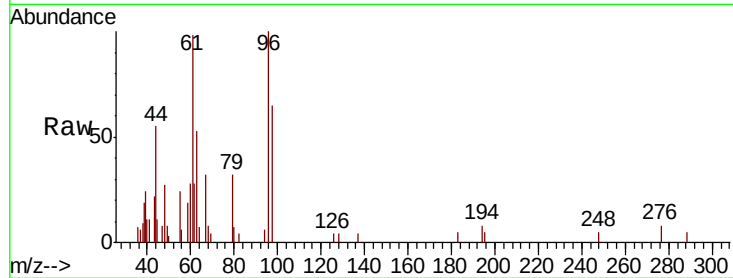
Tot Ion: 96 Resp: 3621

Ion Ratio Lower Upper

96 100

61 117.5 134.5 201.7#

98 65.4 52.6 79.0



#23

Vinyl Acetate

Concen: 1.160 ppbv

RT: 5.16 min Scan# 737

Delta R.T. 0.11 min

Lab File: VL035128.D

Acq: 30 Jun 2020 16:58

Tgt Ion: 43 Resp: 233673

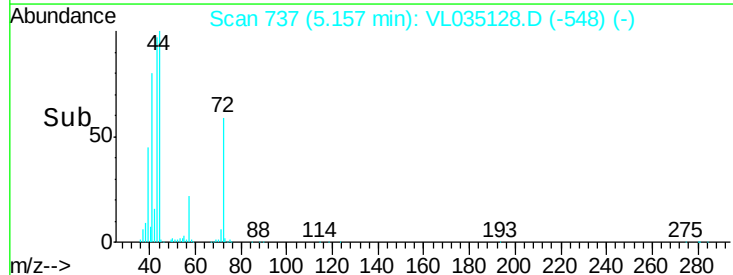
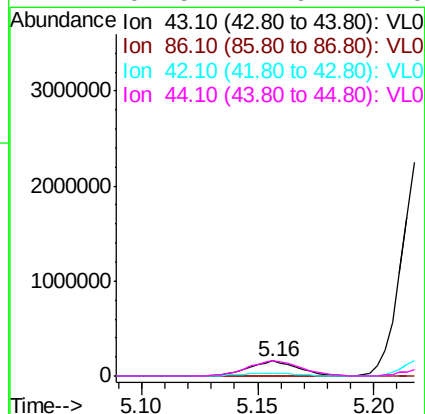
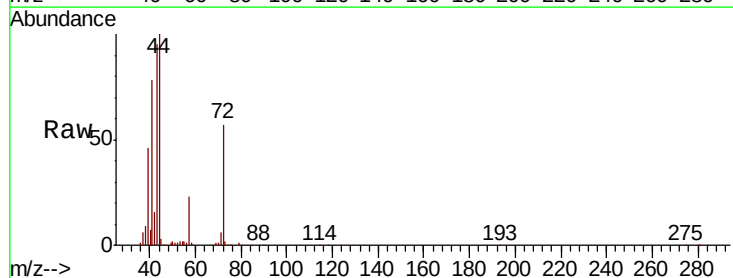
Ion Ratio Lower Upper

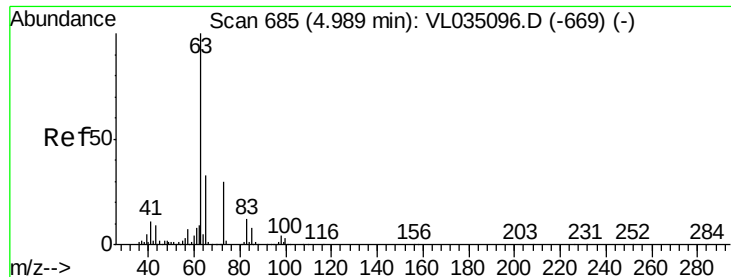
43 100

86 0.0 6.2 9.2#

42 17.2 8.1 12.1#

44 104.5 4.6 7.0#





#24

1,1-Dichloroethane

Concen: 1.010 ppbv

RT: 5.00 min Scan# 687

Delta R.T. 0.01 min

Lab File: VL035128.D

Acq: 30 Jun 2020 16:58

Instrument :

MSVOA_L

ClientSampleId :

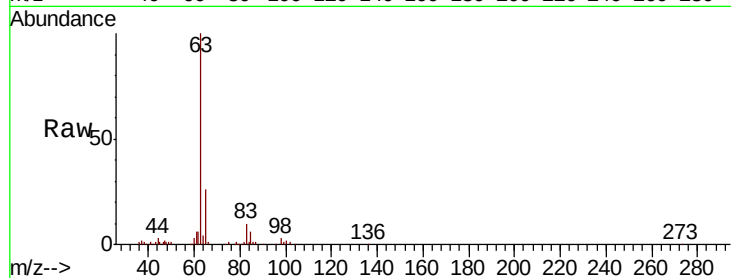
Tot Ion: 63 Resp: 171491

Ion Ratio Lower Upper

63 100

98 3.0 2.3 6.9

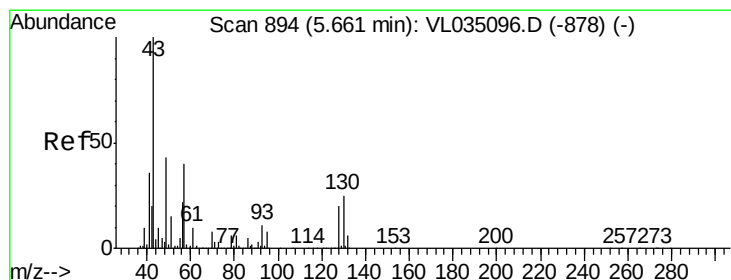
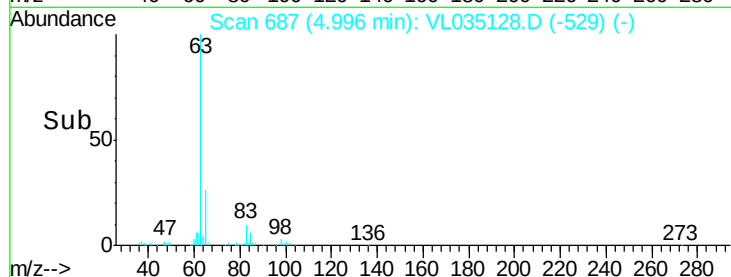
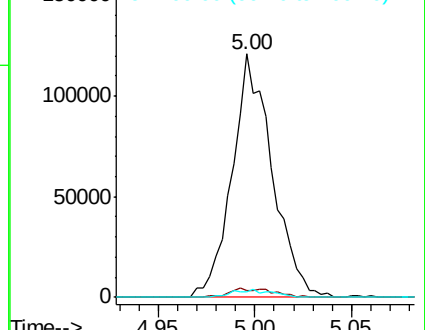
100 2.2 1.4 4.0



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 18.811 ppbv

RT: 5.23 min Scan# 759

Delta R.T. -0.43 min

Lab File: VL035128.D

Acq: 30 Jun 2020 16:58

Tgt Ion: 43 Resp: 5634292

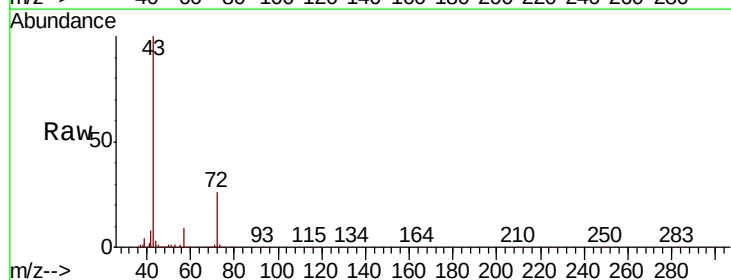
Ion Ratio Lower Upper

43 100

45 0.8 8.4 12.6#

61 0.0 8.0 12.0#

70 0.1 6.3 9.5#

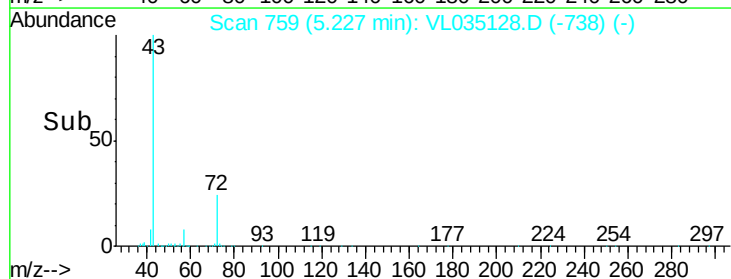
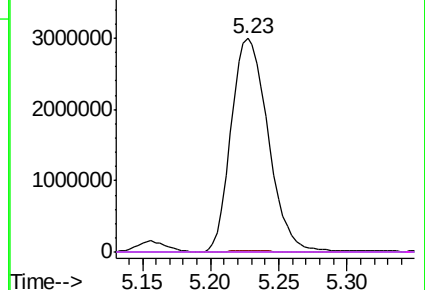


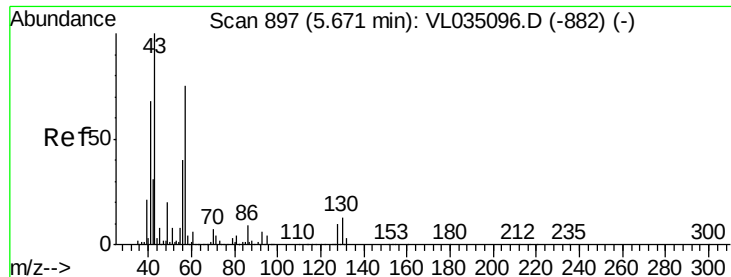
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

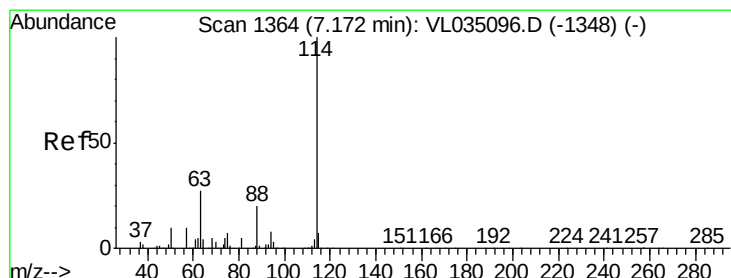
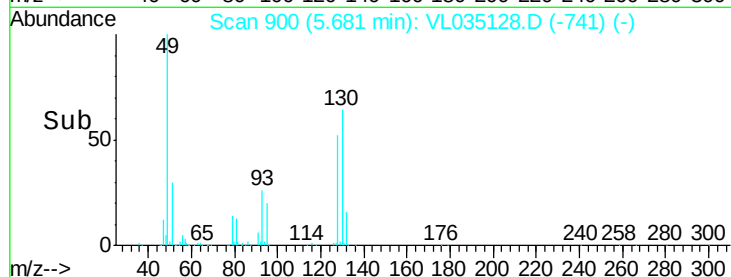
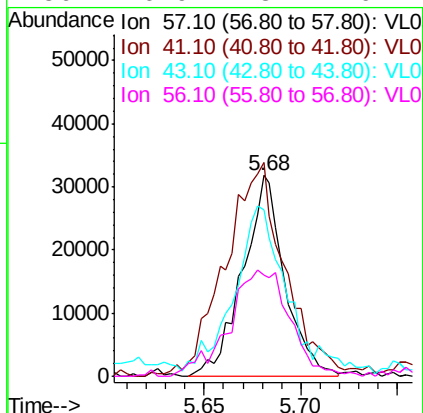
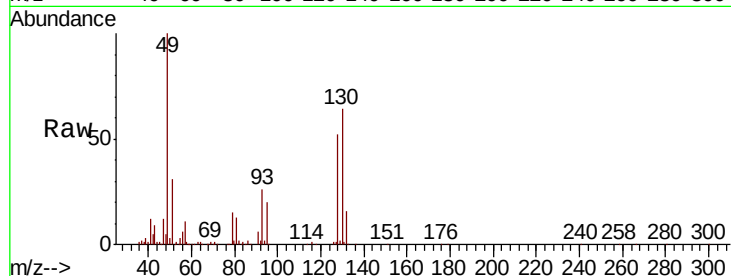




#26
Hexane
Concen: 0.355 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

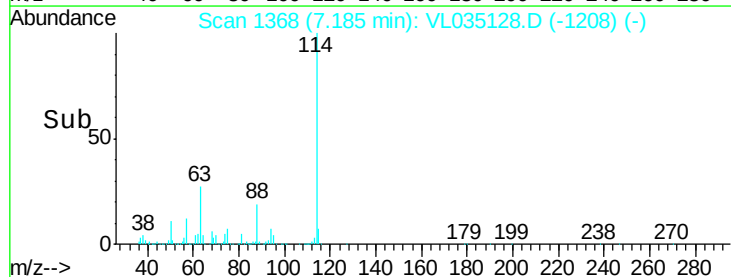
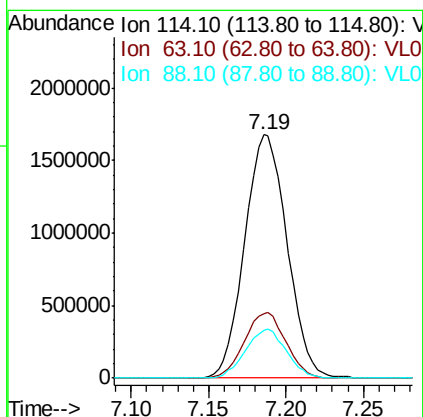
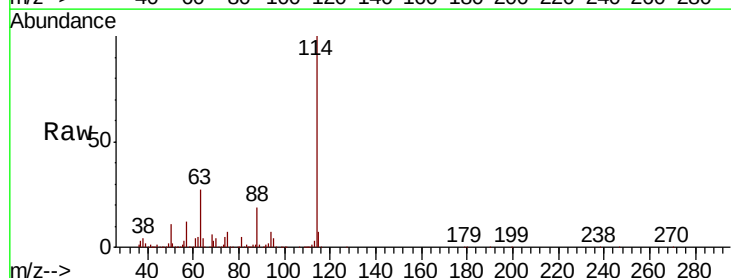
Instrument :
MSVOA_L
ClientSampleId :

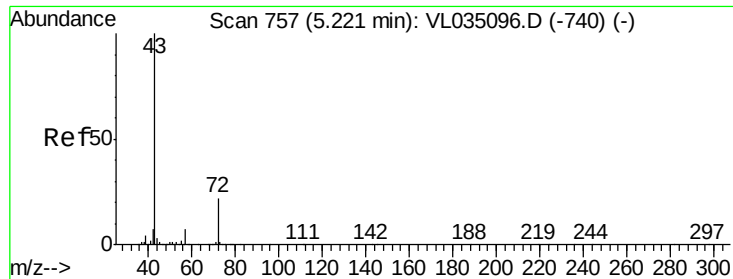
Tot Ion: 57 Resp: 47982
Ion Ratio Lower Upper
57 100
41 153.4 72.9 109.3#
43 0.0 181.3 271.9#
56 76.9 43.1 64.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

Tgt Ion: 114 Resp: 3201183
Ion Ratio Lower Upper
114 100
63 26.6 21.9 32.9
88 19.5 15.6 23.4

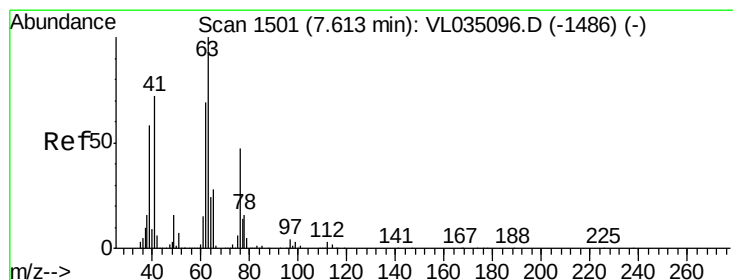
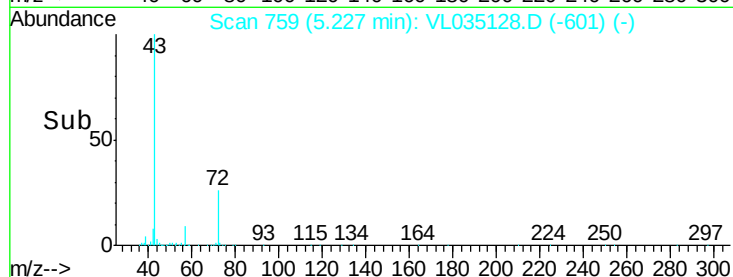
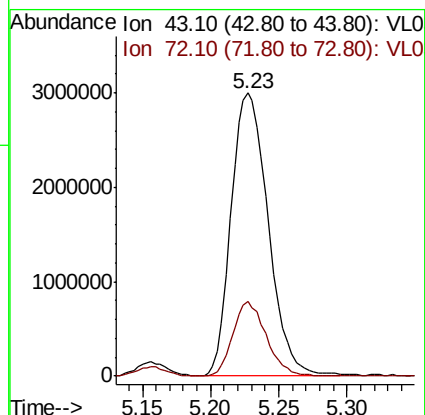
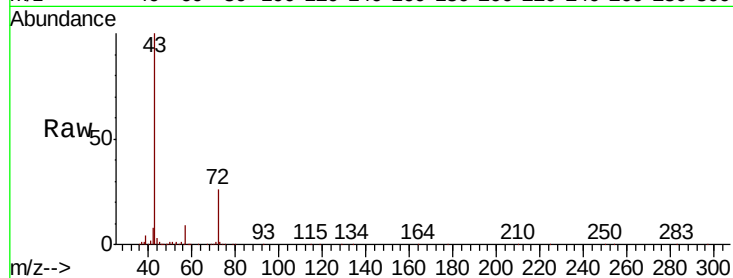




#34
2-Butanone
Concen: 30.649 ppbv
RT: 5.23 min Scan# 759
Delta R.T. 0.01 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

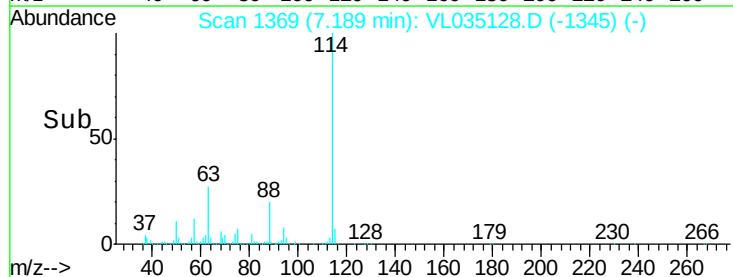
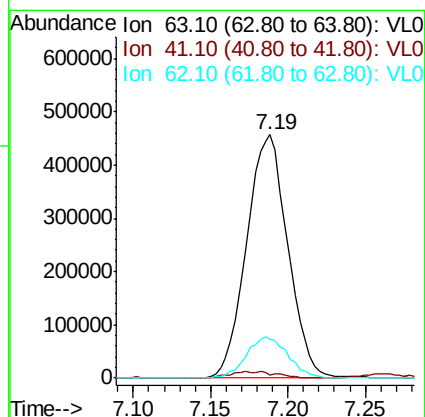
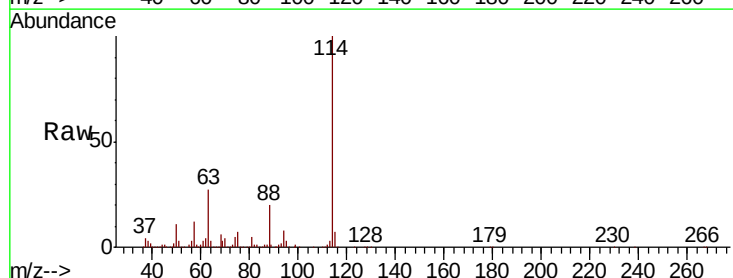
Instrument :
MSVOA_L
ClientSampleId :

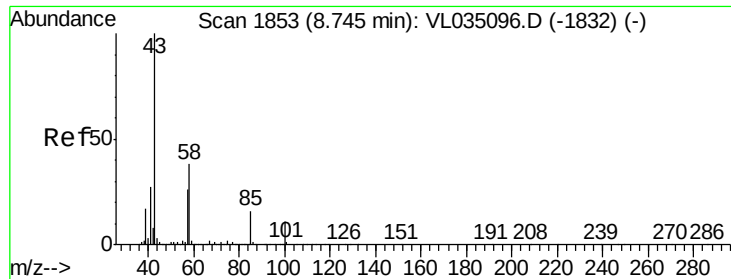
Tot Ion: 43 Resp: 5634292
Ion Ratio Lower Upper
43 100
72 24.2 18.3 27.5



#39
1,2-Dichloropropane
Concen: 8.738 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. -0.42 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

Tgt Ion: 63 Resp: 847169
Ion Ratio Lower Upper
63 100
41 1.3 58.0 87.0#
62 15.7 55.4 83.0#

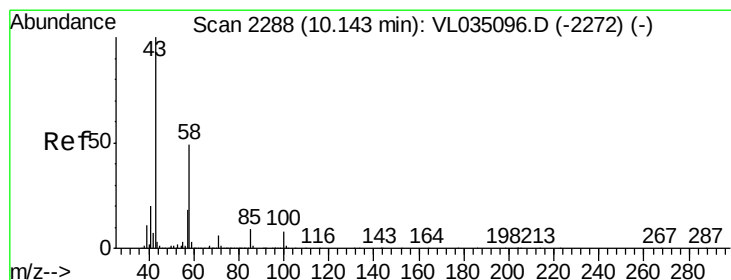
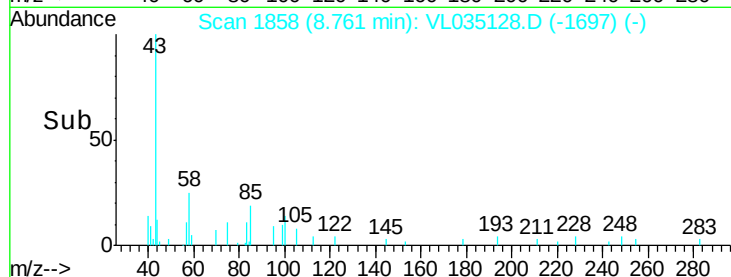
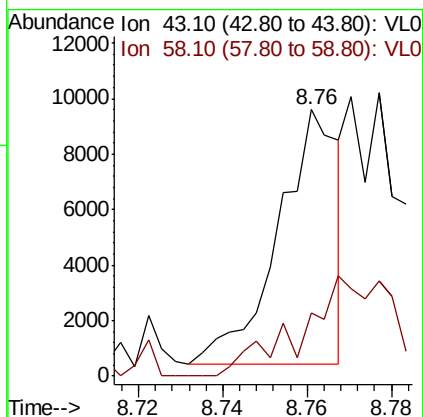
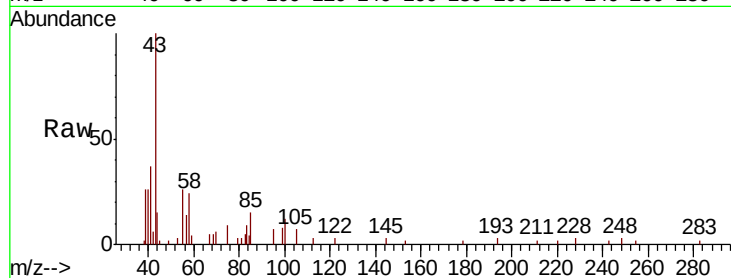




#50
4-Methyl-2-Pentanone
Concen: 0.035 ppbv
RT: 8.76 min Scan# 1858
Delta R.T. 0.02 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

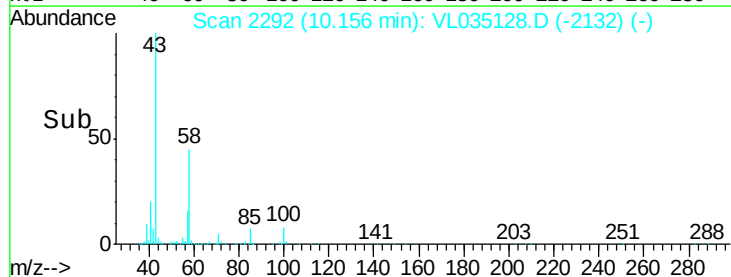
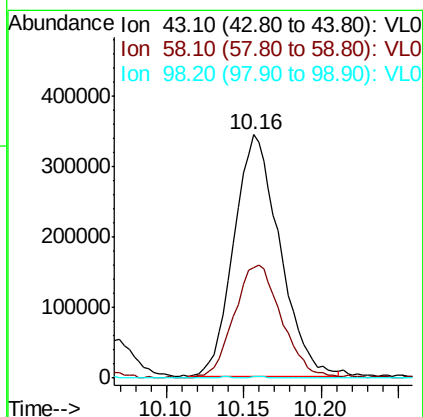
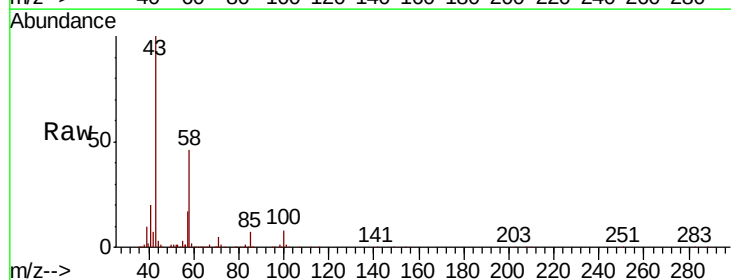
Instrument :
MSVOA_L
ClientSampleId :

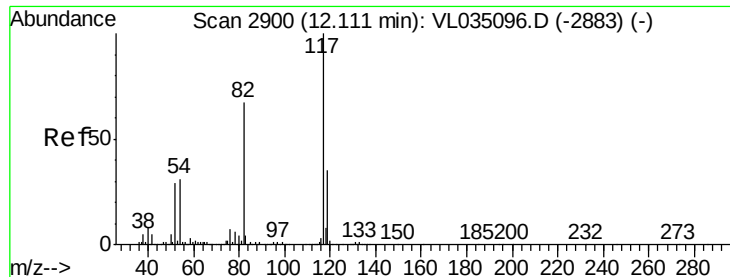
Tot Ion: 43 Resp: 9092
Ion Ratio Lower Upper
43 100
58 0.0 29.4 44.0#



#51
2-Hexanone
Concen: 3.469 ppbv
RT: 10.16 min Scan# 2292
Delta R.T. 0.01 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

Tgt Ion: 43 Resp: 709645
Ion Ratio Lower Upper
43 100
58 48.0 39.2 58.8
98 0.6 0.3 0.5#

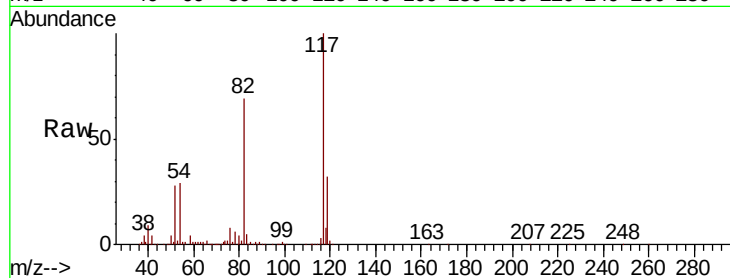




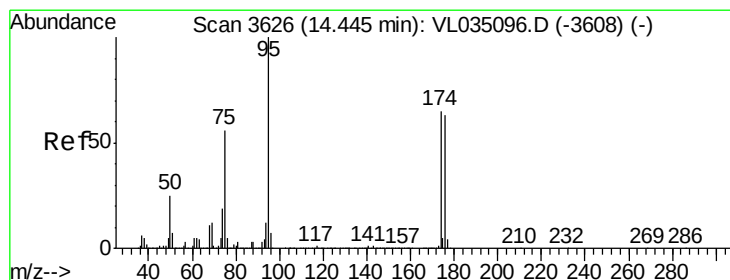
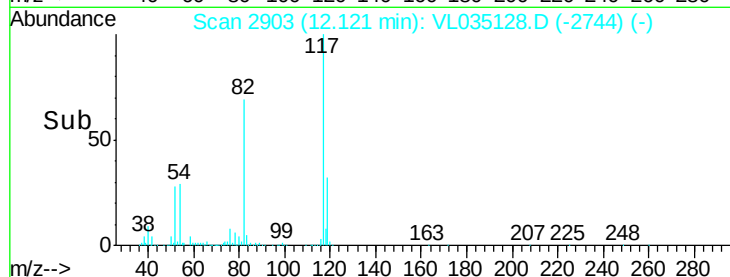
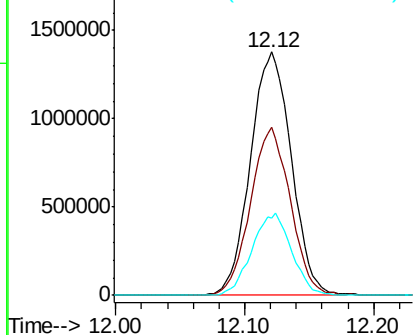
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.01 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3045435
Ion Ratio Lower Upper
117 100
82 67.7 50.4 75.6
119 32.9 25.4 38.0

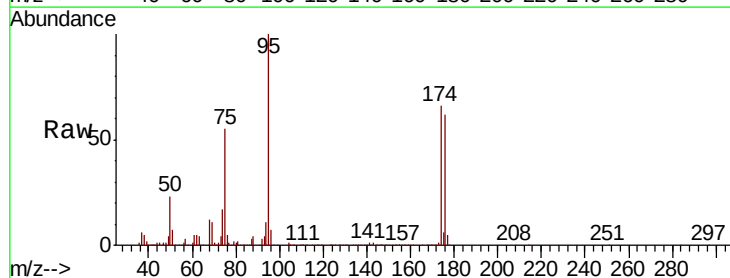


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.037 ppbv
RT: 14.46 min Scan# 3629
Delta R.T. 0.01 min
Lab File: VL035128.D
Acq: 30 Jun 2020 16:58

Tgt Ion: 95 Resp: 2539227
Ion Ratio Lower Upper
95 100
174 66.4 52.2 78.2
175 5.2 4.0 6.0



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

