

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL063020\
 Data File : VL035133.D
 Acq On : 30 Jun 2020 20:15
 Operator : SY/AP
 Sample : L3124-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 01 03:01:41 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	1300421	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3046242	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2886593	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2391713	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

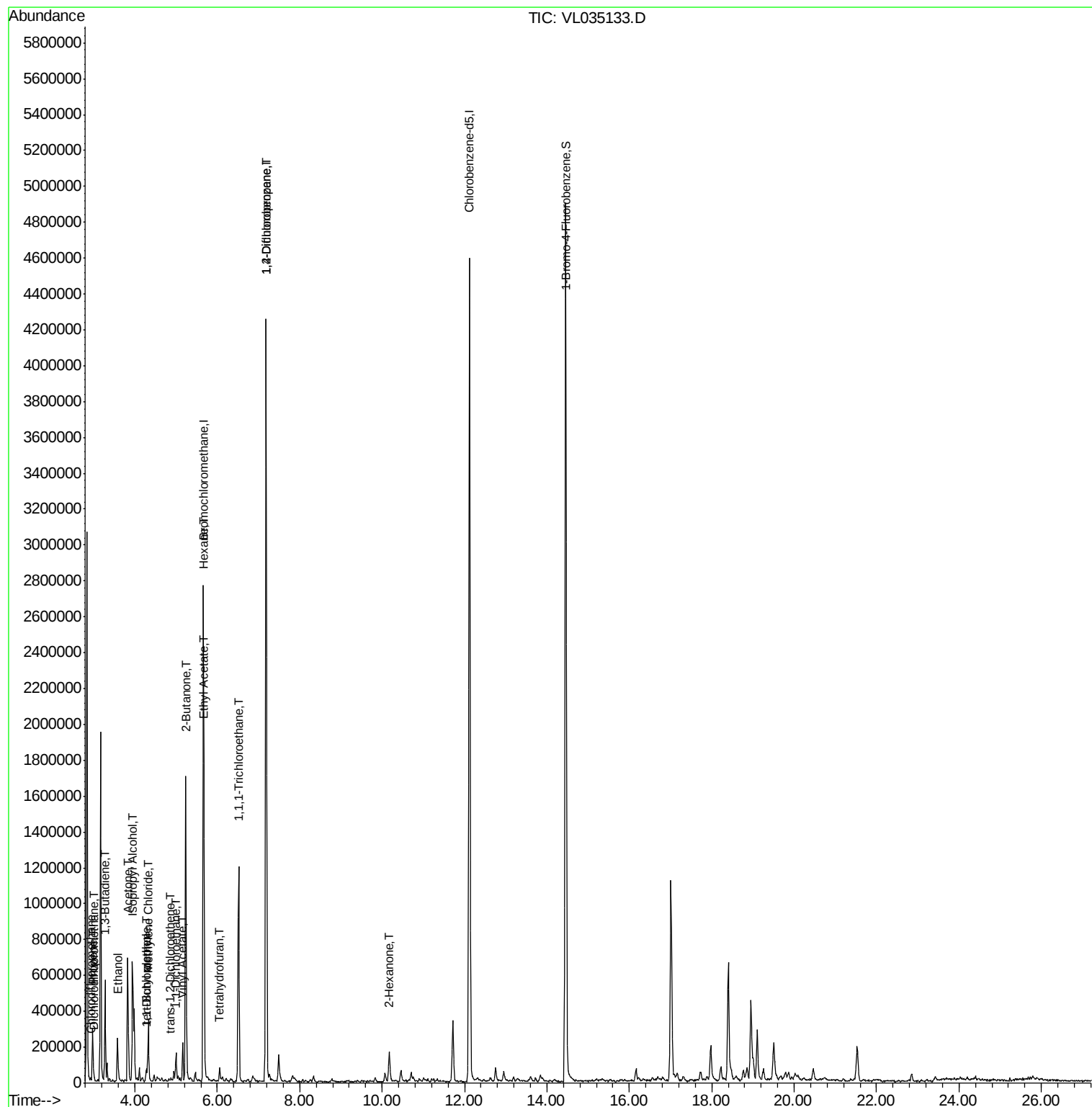
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	11531	0.066	ppbv #	76
3) Chlorodifluoromethane	2.93	51	15334	0.107	ppbv #	81
9) Propene	2.97	41	120804	2.124	ppbv	95
13) Ethanol	3.57	45	256073	11.916	ppbv	99
15) Acetone	3.82	43	652809	4.152	ppbv #	76
16) 1,3-Butadiene	3.28	39	128311	1.861	ppbv #	15
17) tert-Butyl alcohol	4.28	59	22775	0.163	ppbv #	50
18) 1,1-Dichloroethene	4.26	96	3003	0.051	ppbv #	13
19) Isopropyl Alcohol	3.94	45	782954	7.669	ppbv	99
20) Methylene Chloride	4.32	84	106464	1.673	ppbv	95
22) trans-1,2-Dichloroethene	4.87	96	2921	0.053	ppbv #	64
23) Vinyl Acetate	5.16	43	64439	0.338	ppbv #	17
24) 1,1-Dichloroethane	5.00	63	128562	0.799	ppbv	96
25) Ethyl Acetate	5.68	43	45985	0.162	ppbv #	78
26) Hexane	5.68	57	51455	0.402	ppbv #	7
32) 1,1,1-Trichloroethane	6.51	97	739519	3.983	ppbv	99
34) 2-Butanone	5.23	43	1879296	10.743	ppbv	99
39) 1,2-Dichloropropane	7.18	63	814817	8.832	ppbv #	25
41) Tetrahydrofuran	6.06	42	42349	0.474	ppbv	96
51) 2-Hexanone	10.18	43	130813	0.672	ppbv #	99

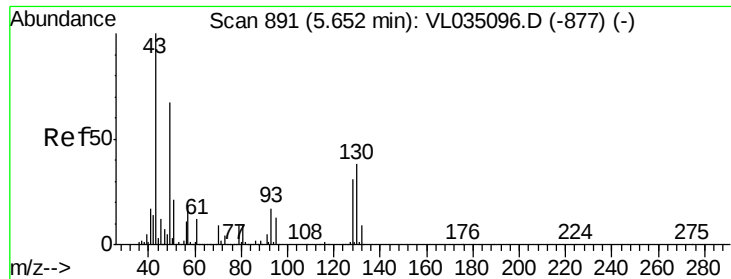
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jun 20 02:10:36 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.01 min

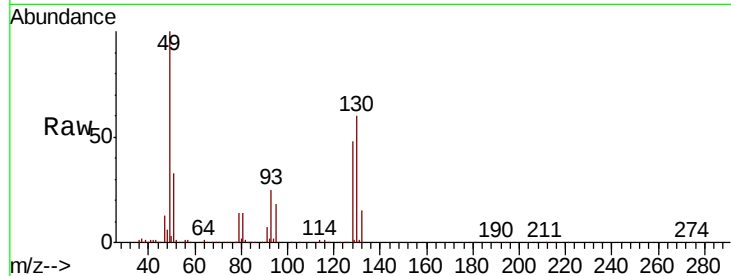
Lab File: VL035133.D

Acq: 30 Jun 2020 20:15

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1300421

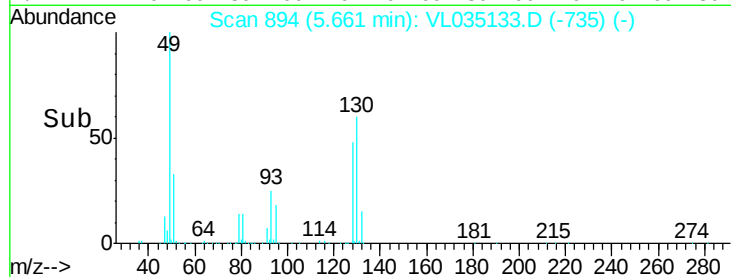
Ion	Ratio	Lower	Upper
49	100		
128	46.0	22.9	68.5
130	59.9	29.0	87.0



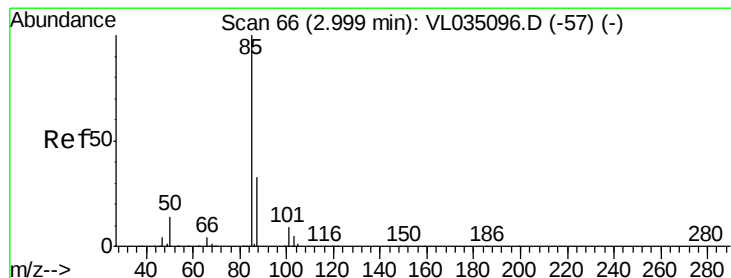
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.066 ppbv

RT: 3.01 min Scan# 69

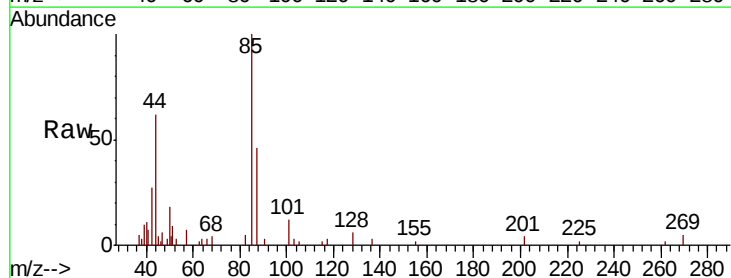
Delta R.T. 0.01 min

Lab File: VL035133.D

Acq: 30 Jun 2020 20:15

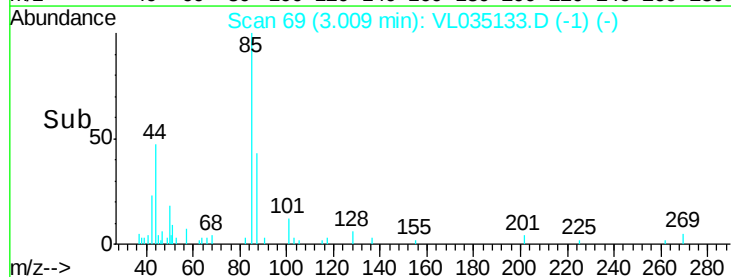
Tgt Ion: 85 Resp: 11531

Ion	Ratio	Lower	Upper
85	100		
87	45.9	26.1	39.1

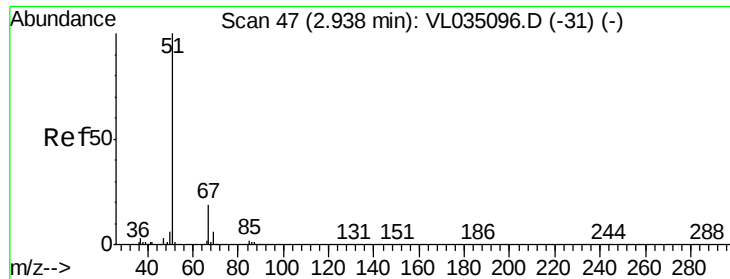


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->



#3

Chlorodifluoromethane

Concen: 0.107 ppbv

RT: 2.93 min Scan# 43

Delta R.T. -0.01 min

Lab File: VL035133.D

Acq: 30 Jun 2020 20:15

Instrument :

MSVOA_L

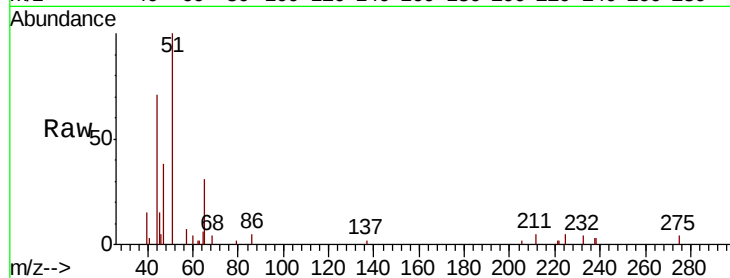
ClientSampleId :

Tot Ion: 51 Resp: 15334

Ion Ratio Lower Upper

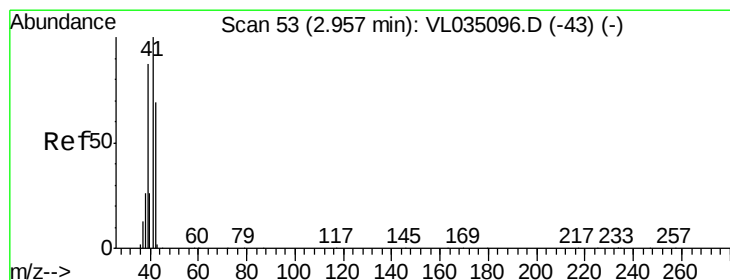
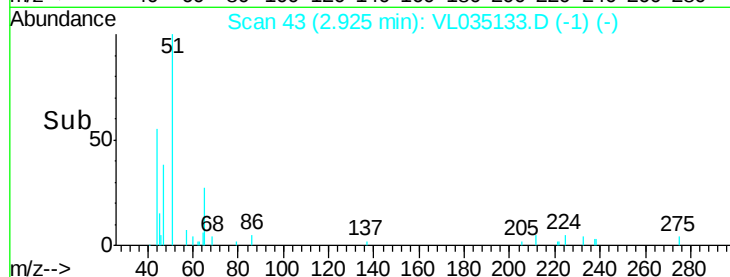
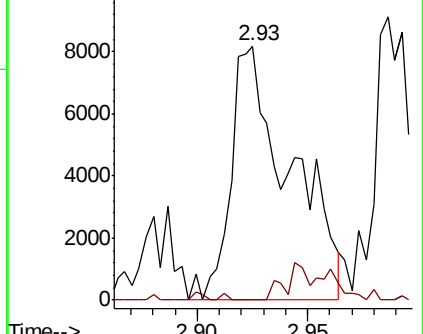
51 100

67 10.3 15.2 22.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 2.124 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.02 min

Lab File: VL035133.D

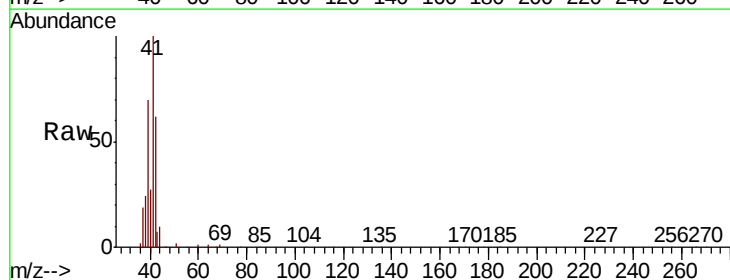
Acq: 30 Jun 2020 20:15

Tgt Ion: 41 Resp: 120804

Ion Ratio Lower Upper

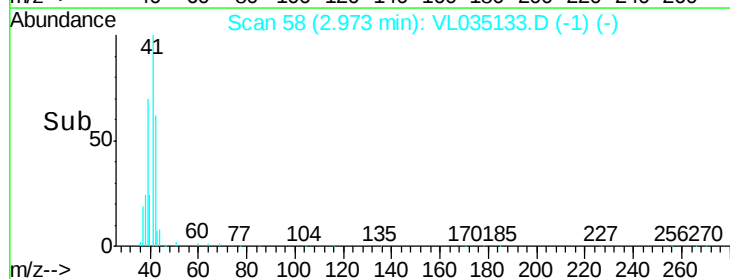
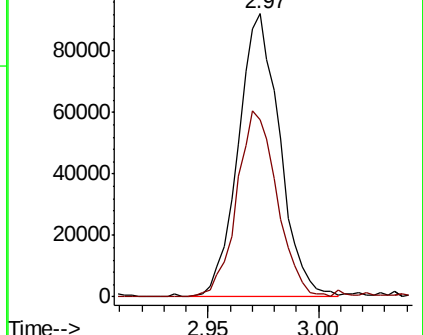
41 100

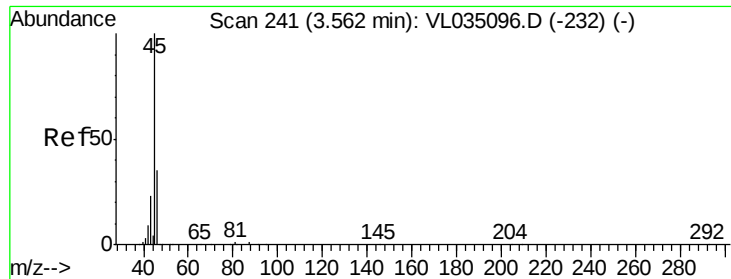
42 65.3 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

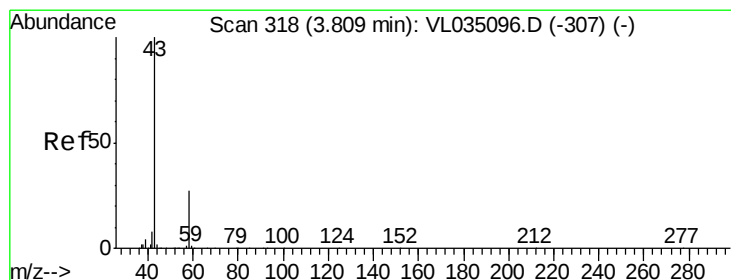
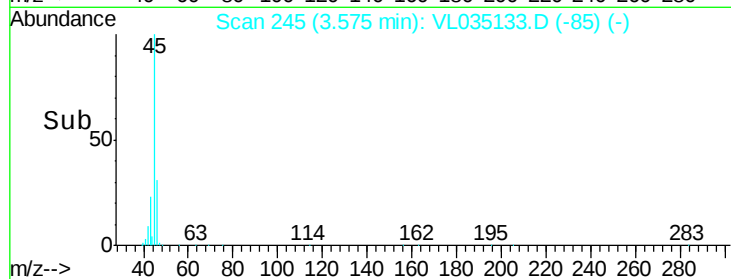
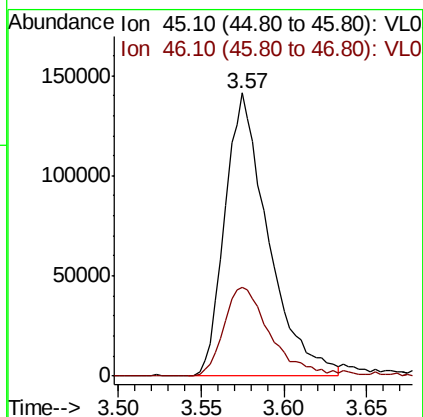
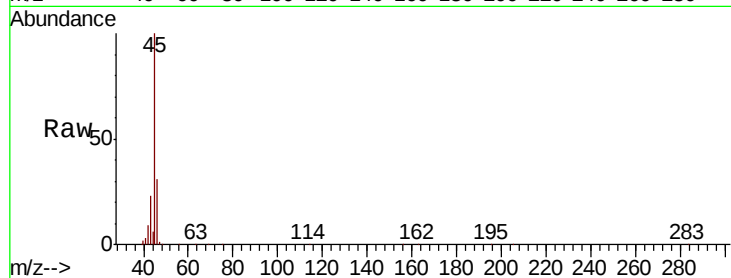




#13
Ethanol
Concen: 11.916 ppbv
RT: 3.57 min Scan# 245
Delta R.T. 0.01 min
Lab File: VL035133.D
Acq: 30 Jun 2020 20:15

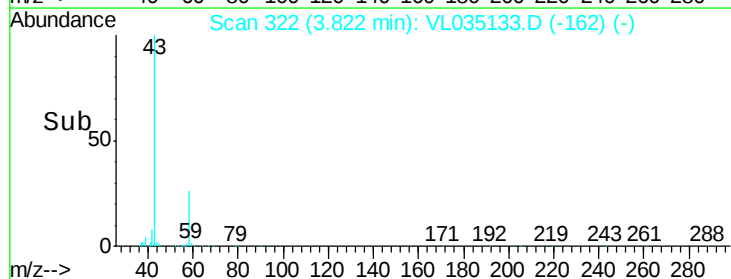
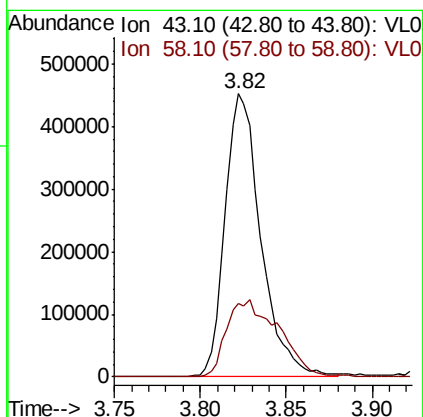
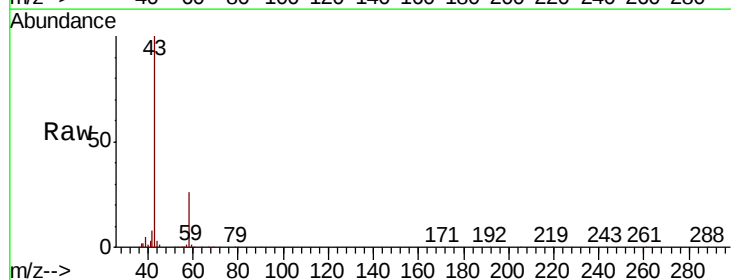
Instrument :
MSVOA_L
ClientSampleId :

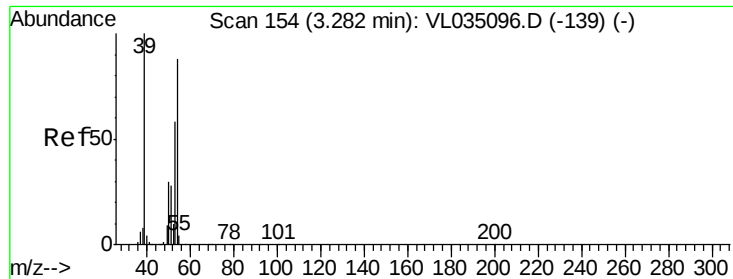
Tot Ion: 45 Resp: 256073
Ion Ratio Lower Upper
45 100
46 34.9 14.2 57.0



#15
Acetone
Concen: 4.152 ppbv
RT: 3.82 min Scan# 322
Delta R.T. 0.01 min
Lab File: VL035133.D
Acq: 30 Jun 2020 20:15

Tgt Ion: 43 Resp: 652809
Ion Ratio Lower Upper
43 100
58 39.8 21.8 32.6#

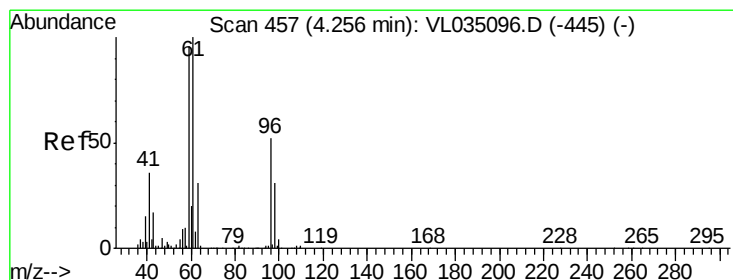
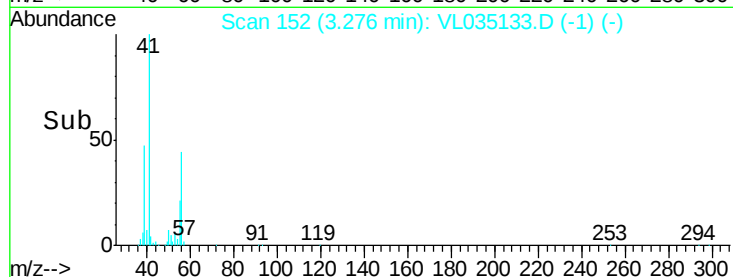
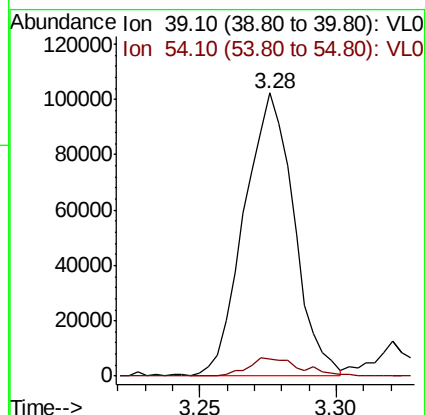
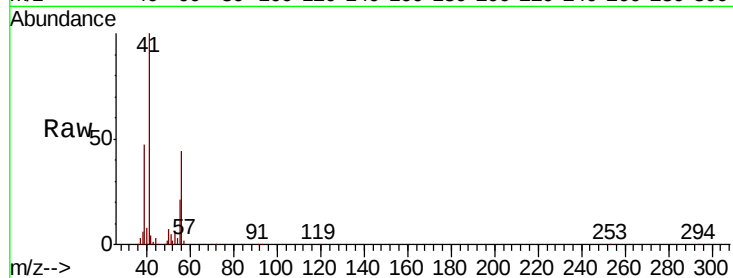




#16
 1,3-Butadiene
 Concen: 1.861 ppbv
 RT: 3.28 min Scan# 152
 Delta R.T. -0.01 min
 Lab File: VL035133.D
 Acq: 30 Jun 2020 20:15

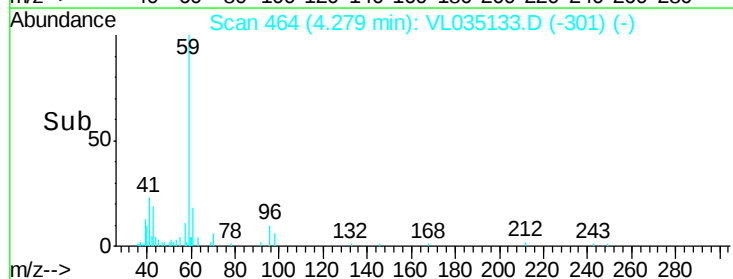
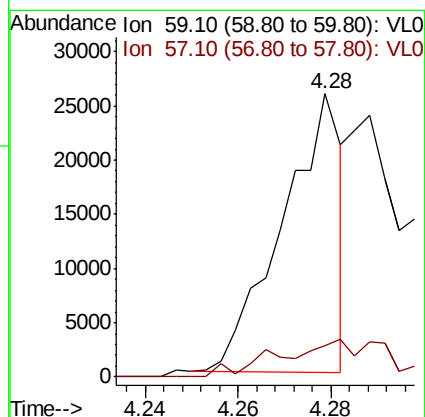
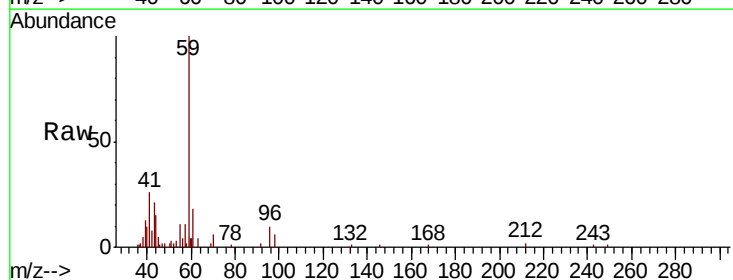
Instrument :
 MSVOA_L
 ClientSampled :

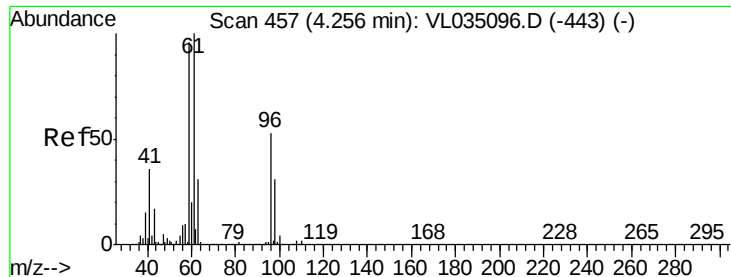
Tot Ion: 39 Resp: 128311
 Ion Ratio Lower Upper
 39 100
 54 6.9 67.0 100.4#



#17
 tert-Butyl alcohol
 Concen: 0.163 ppbv
 RT: 4.28 min Scan# 464
 Delta R.T. 0.02 min
 Lab File: VL035133.D
 Acq: 30 Jun 2020 20:15

Tgt Ion: 59 Resp: 22775
 Ion Ratio Lower Upper
 59 100
 57 29.6 8.6 12.8#





#18

1,1-Dichloroethene

Concen: 0.051 ppbv

RT: 4.26 min Scan# 459

Delta R.T. 0.01 min

Lab File: VL035133.D

Acq: 30 Jun 2020 20:15

Instrument :

MSVOA_L

ClientSampleId :

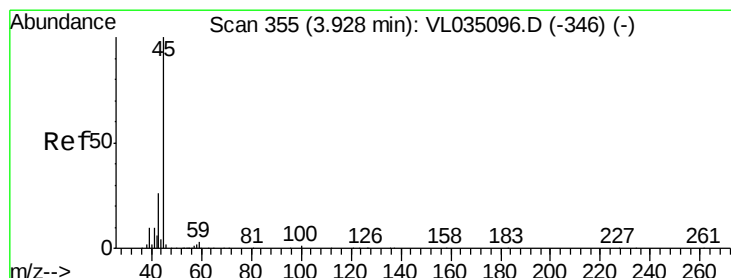
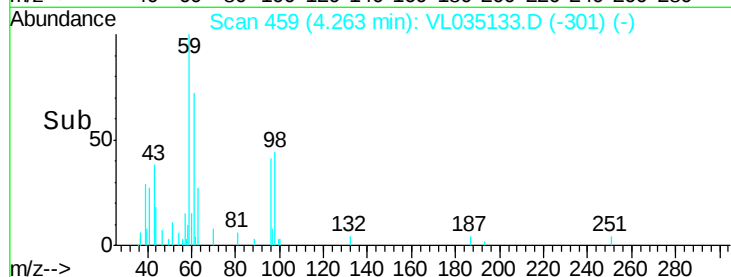
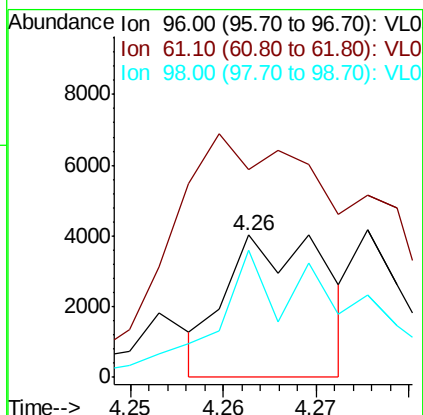
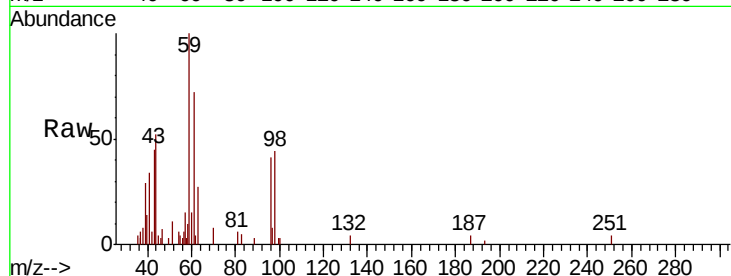
Tot Ion: 96 Resp: 3003

Ion Ratio Lower Upper

96 100

61 45.0 152.2 228.4#

98 96.2 47.7 71.5#



#19

Isopropyl Alcohol

Concen: 7.669 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.02 min

Lab File: VL035133.D

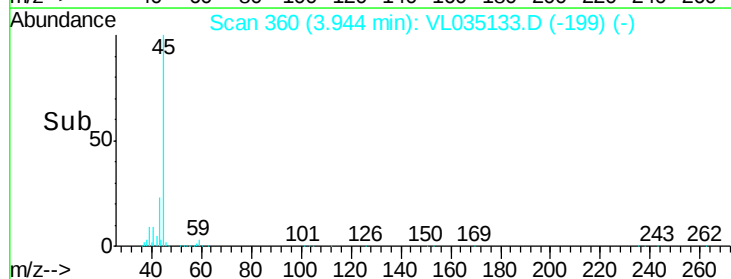
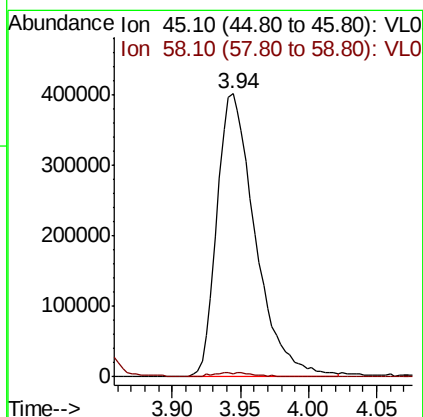
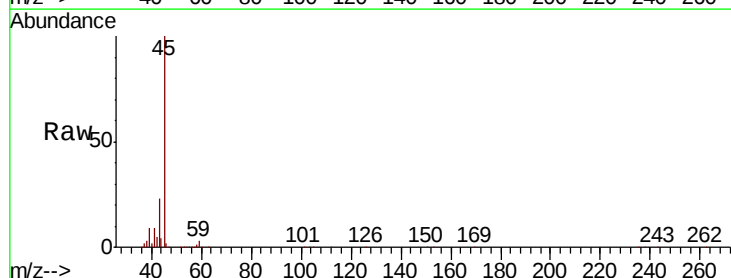
Acq: 30 Jun 2020 20:15

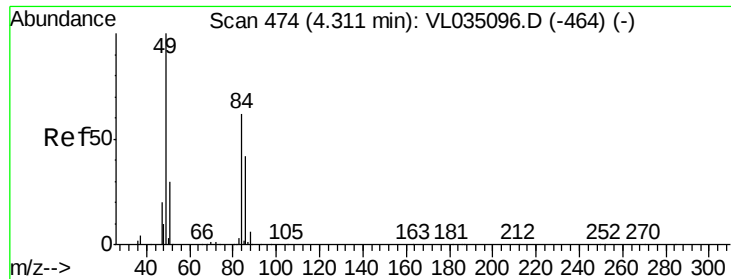
Tgt Ion: 45 Resp: 782954

Ion Ratio Lower Upper

45 100

58 1.9 1.8 2.8

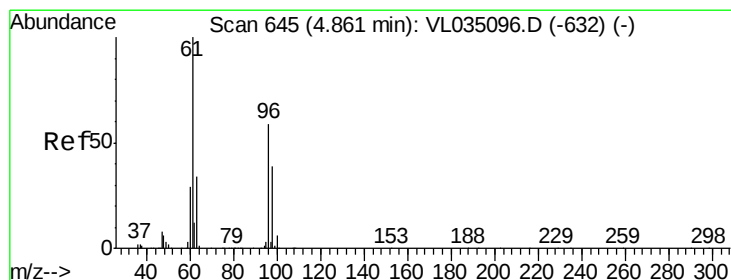
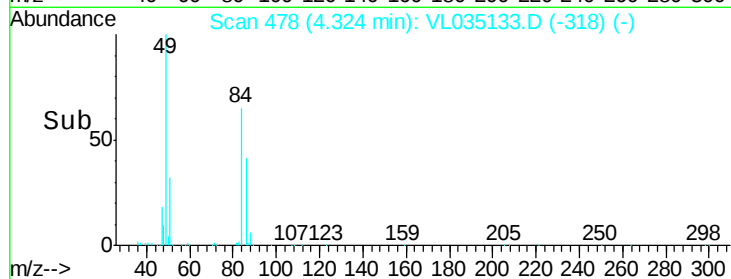
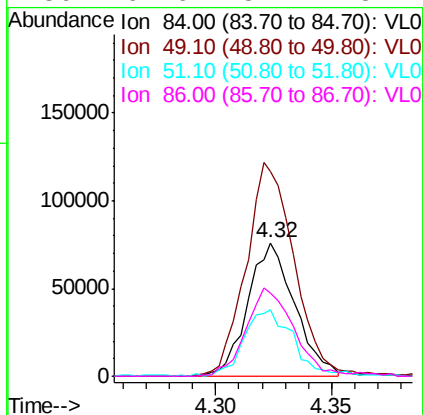
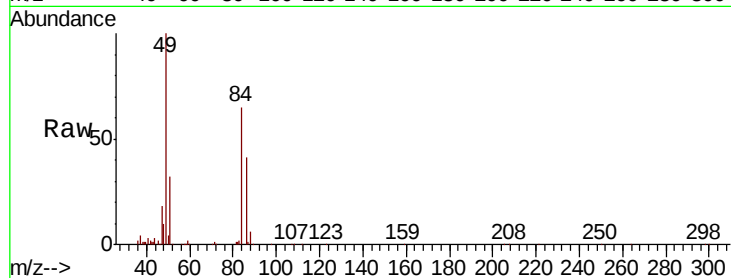




#20
Methylene Chloride
Concen: 1.673 ppbv
RT: 4.32 min Scan# 478
Delta R.T. 0.01 min
Lab File: VL035133.D
Acq: 30 Jun 2020 20:15

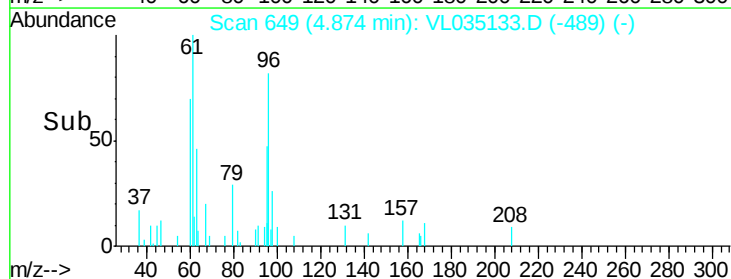
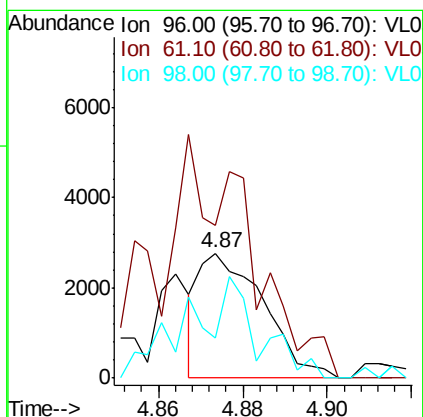
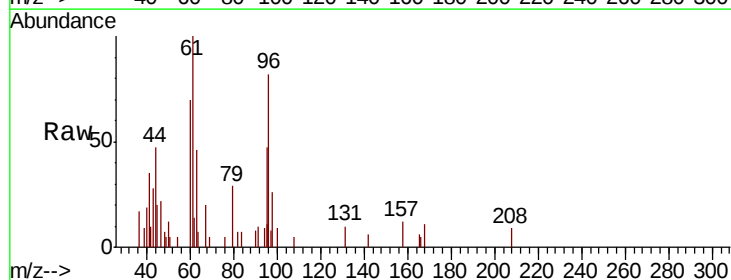
Instrument :
MSVOA_L
ClientSampleId :

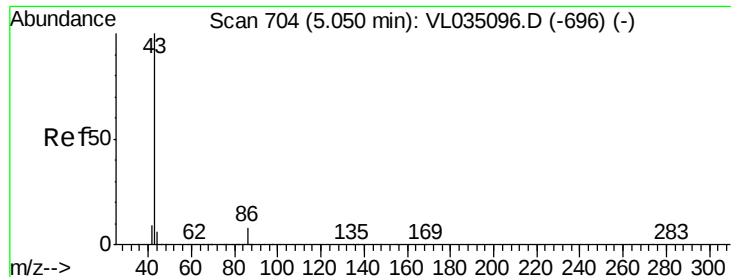
Tot Ion:	84	Resp:	106464
Ion	Ratio	Lower	Upper
84	100		
49	153.8	128.8	193.2
51	49.7	38.7	58.1
86	62.6	54.1	81.1



#22
trans-1,2-Dichloroethene
Concen: 0.053 ppbv
RT: 4.87 min Scan# 649
Delta R.T. 0.01 min
Lab File: VL035133.D
Acq: 30 Jun 2020 20:15

Tgt Ion:	96	Resp:	2921
Ion	Ratio	Lower	Upper
96	100		
61	122.3	134.5	201.7#
98	32.1	52.6	79.0#





#23

Vinyl Acetate

Concen: 0.338 ppbv

RT: 5.16 min Scan# 738

Delta R.T. 0.11 min

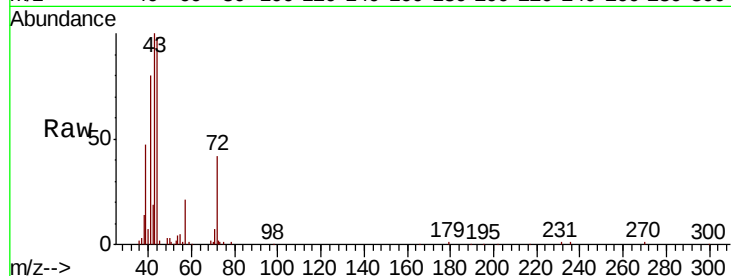
Lab File: VL035133.D

Acq: 30 Jun 2020 20:15

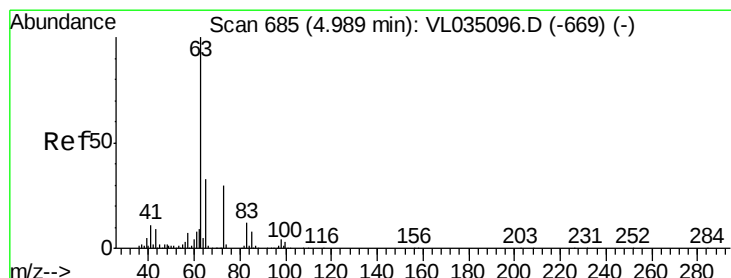
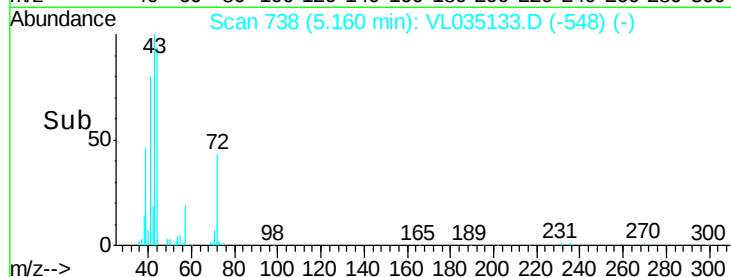
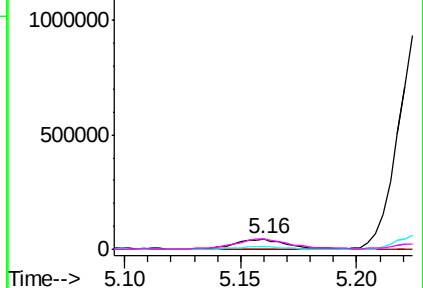
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 43 Resp: 64439

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.2#
42	18.5	8.1	12.1#
44	95.9	4.6	7.0#



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



#24

1,1-Dichloroethane

Concen: 0.799 ppbv

RT: 5.00 min Scan# 689

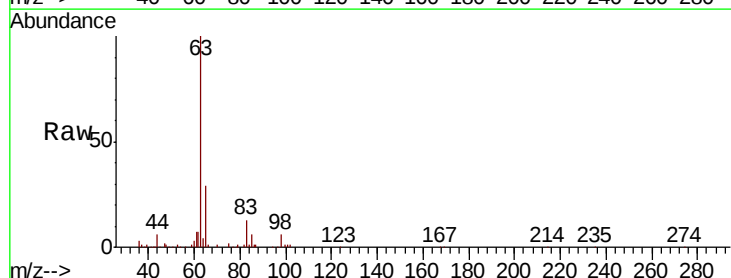
Delta R.T. 0.01 min

Lab File: VL035133.D

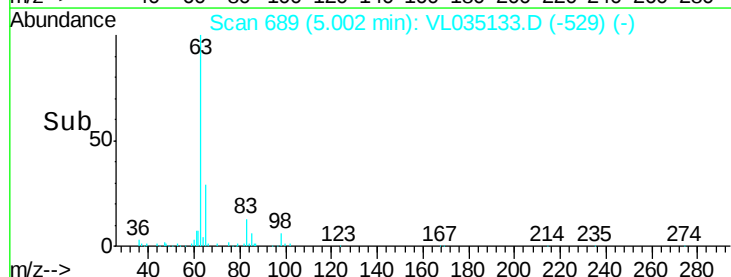
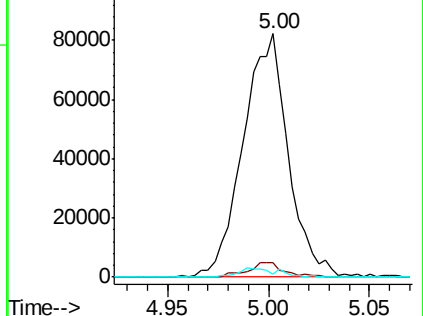
Acq: 30 Jun 2020 20:15

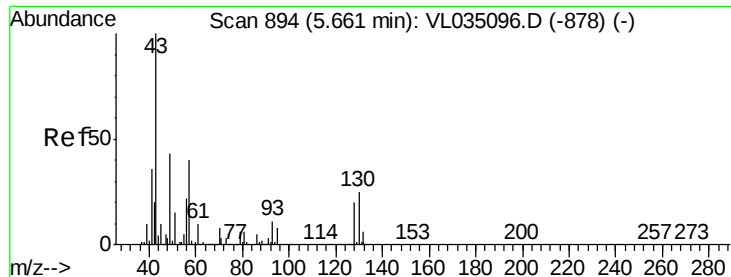
Tgt Ion: 63 Resp: 128562

Ion	Ratio	Lower	Upper
63	100		
98	5.7	2.3	6.9
100	1.5	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

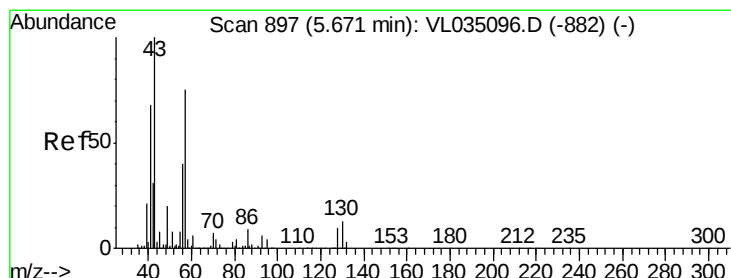
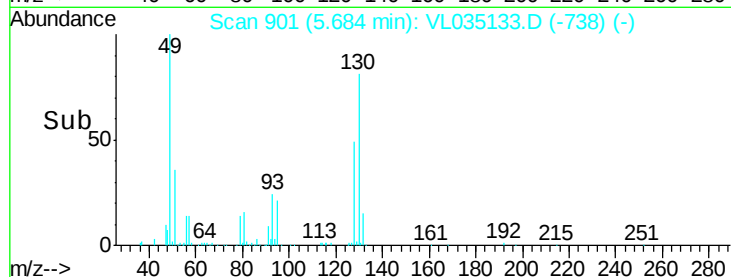
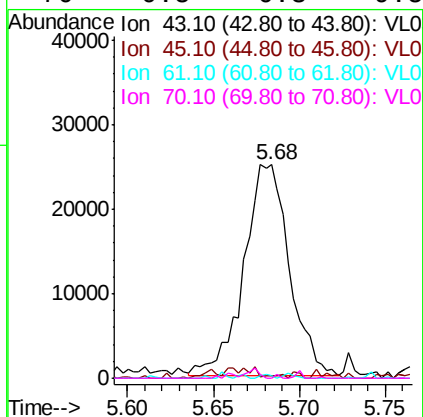
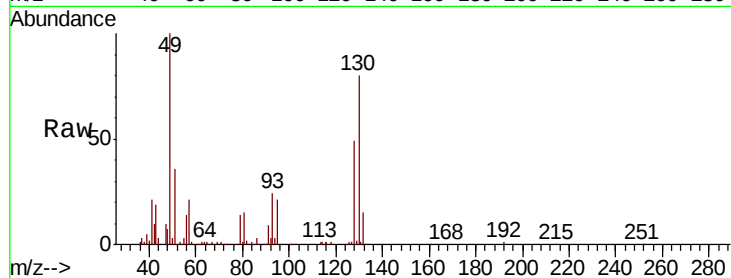




#25
Ethyl Acetate
Concen: 0.162 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.02 min
Lab File: VL035133.D
Acq: 30 Jun 2020 20:15

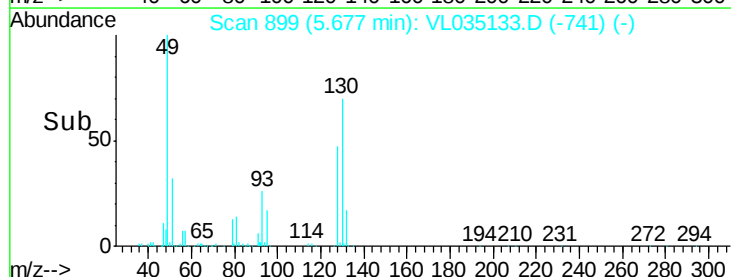
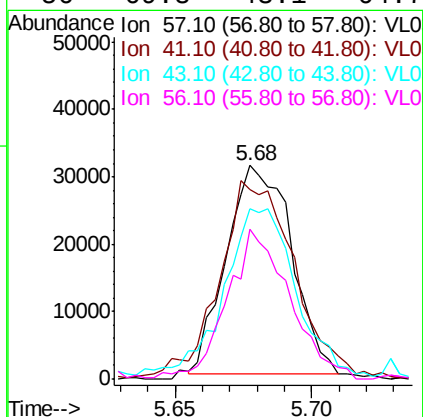
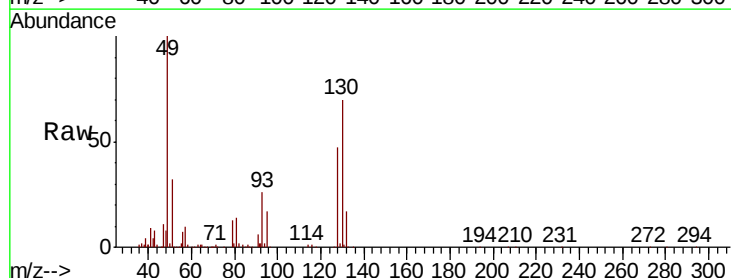
Instrument :
MSVOA_L
ClientSampleId :

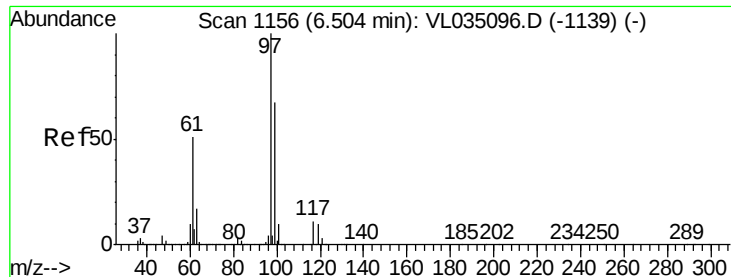
Tot Ion:	43	Resp:	45985
Ion	Ratio	Lower	Upper
43	100		
45	2.4	8.4	12.6#
61	1.3	8.0	12.0#
70	0.5	6.3	9.5#



#26
Hexane
Concen: 0.402 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL035133.D
Acq: 30 Jun 2020 20:15

Tgt Ion:	57	Resp:	51455
Ion	Ratio	Lower	Upper
57	100		
41	110.9	72.9	109.3#
43	0.0	181.3	271.9#
56	69.8	43.1	64.7#





#32

1,1,1-Trichloroethane

Concen: 3.983 ppbv

RT: 6.51 min Scan# 1159

Delta R.T. 0.01 min

Lab File: VL035133.D

Acq: 30 Jun 2020 20:15

Instrument :

MSVOA_L

ClientSampleId :

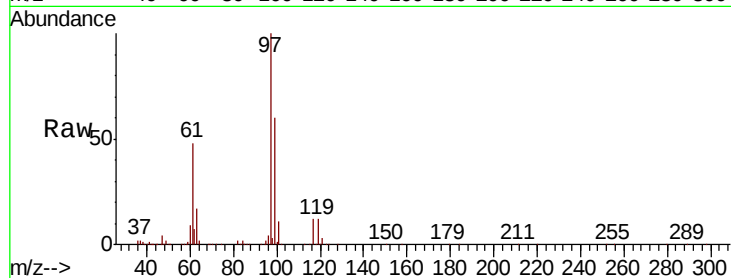
Tot Ion: 97 Resp: 739519

Ion Ratio Lower Upper

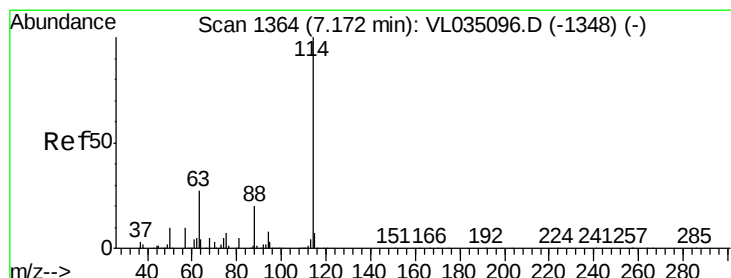
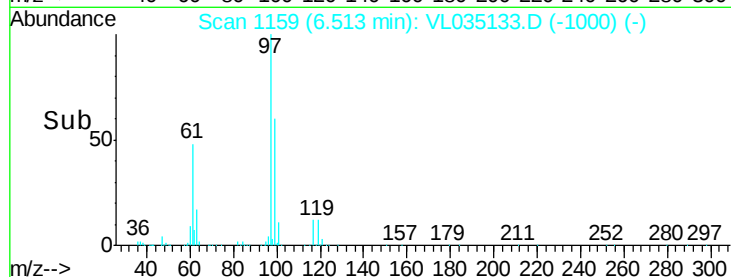
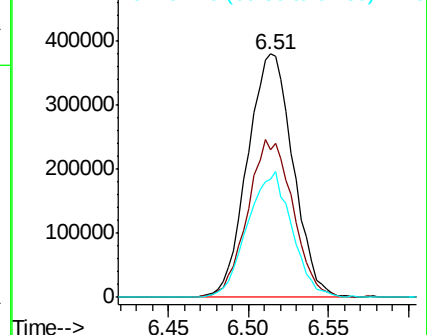
97 100

99 64.7 52.0 78.0

61 50.5 41.0 61.6



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.01 min

Lab File: VL035133.D

Acq: 30 Jun 2020 20:15

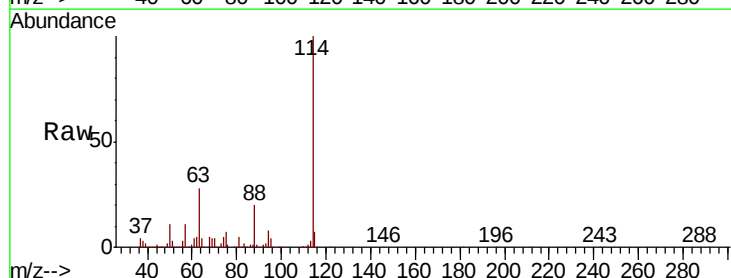
Tgt Ion: 114 Resp: 3046242

Ion Ratio Lower Upper

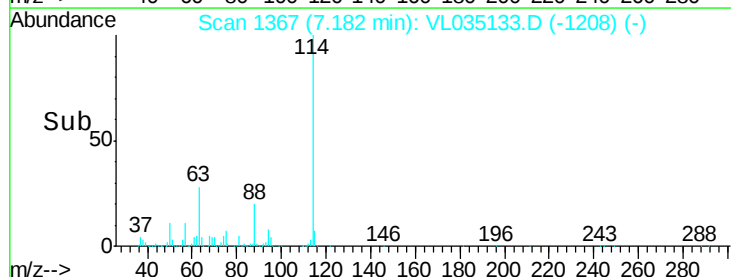
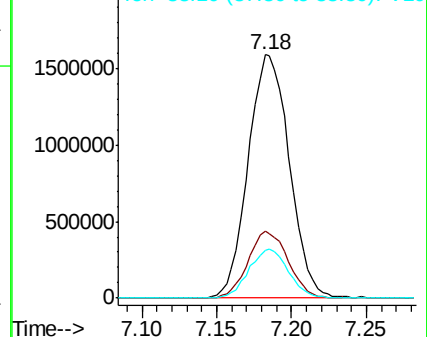
114 100

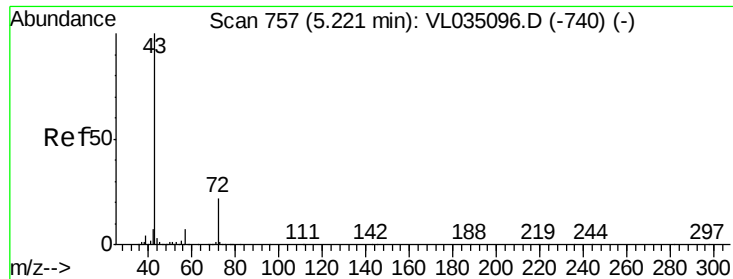
63 26.9 21.9 32.9

88 19.4 15.6 23.4



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

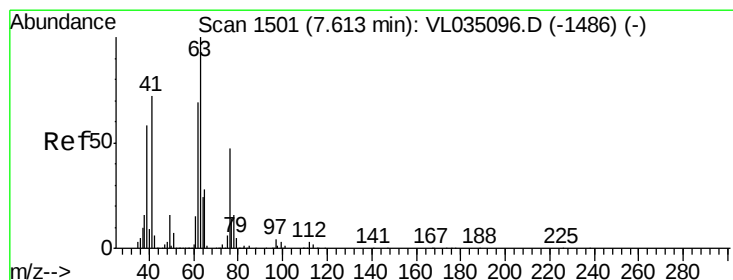
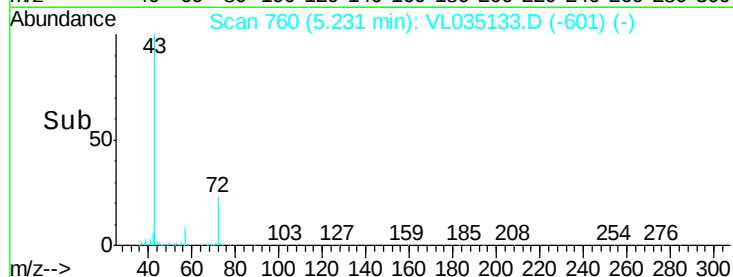
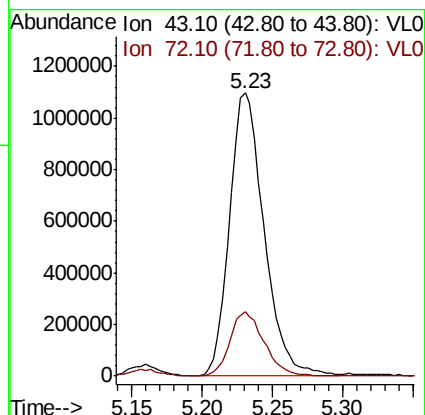
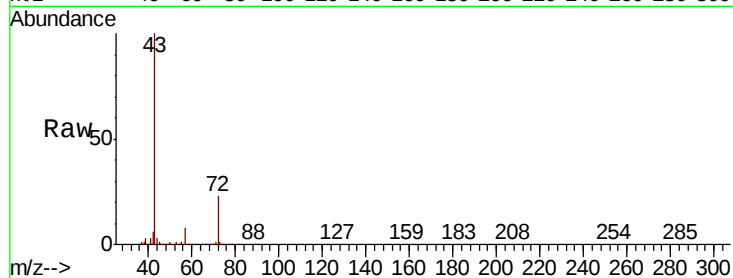




#34
2-Butanone
Concen: 10.743 ppbv
RT: 5.23 min Scan# 760
Delta R.T. 0.01 min
Lab File: VL035133.D
Acq: 30 Jun 2020 20:15

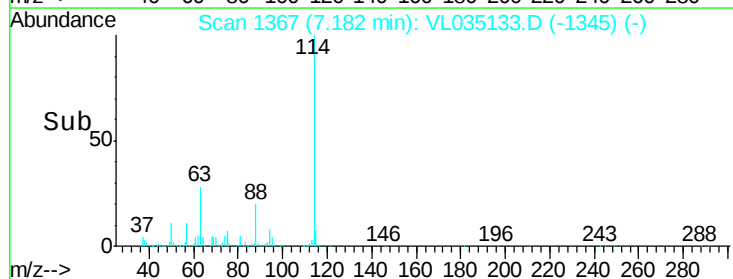
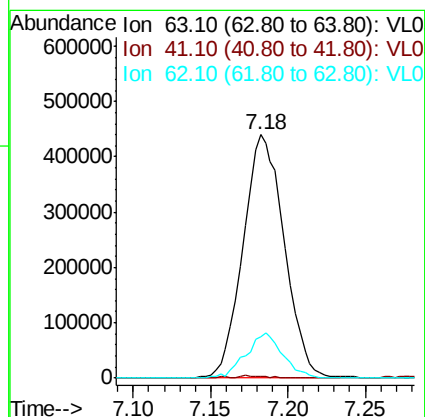
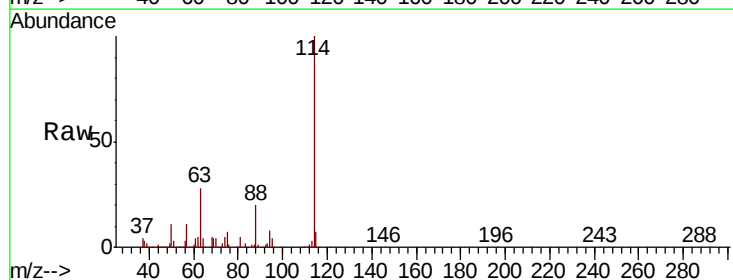
Instrument :
MSVOA_L
ClientSampleId :

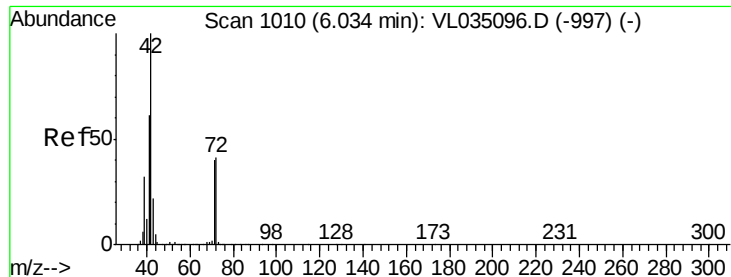
Tot Ion: 43 Resp: 1879296
Ion Ratio Lower Upper
43 100
72 22.5 18.3 27.5



#39
1,2-Dichloropropane
Concen: 8.832 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.43 min
Lab File: VL035133.D
Acq: 30 Jun 2020 20:15

Tgt Ion: 63 Resp: 814817
Ion Ratio Lower Upper
63 100
41 0.8 58.0 87.0#
62 17.0 55.4 83.0#

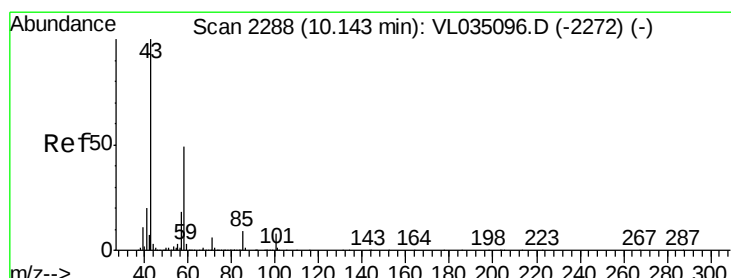
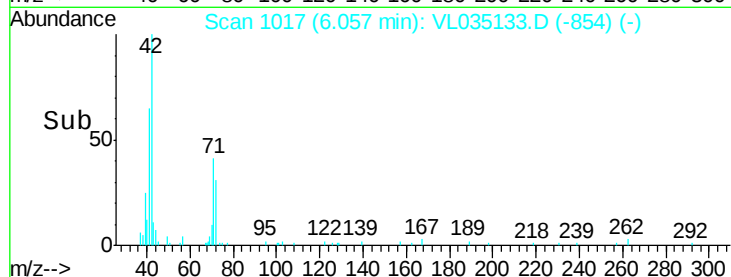
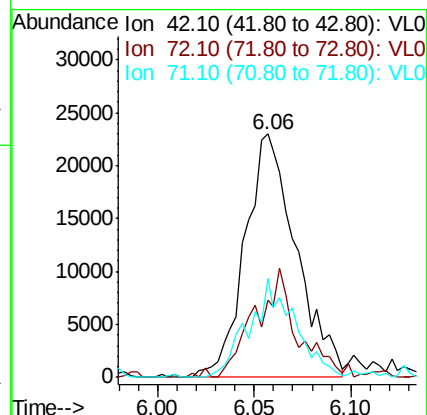
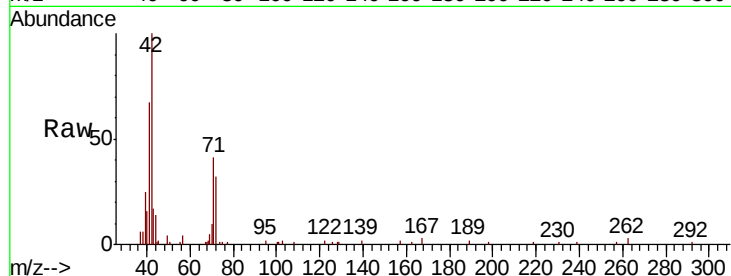




#41
Tetrahydrofuran
Concen: 0.474 ppbv
RT: 6.06 min Scan# 1017
Delta R.T. 0.02 min
Lab File: VL035133.D
Acq: 30 Jun 2020 20:15

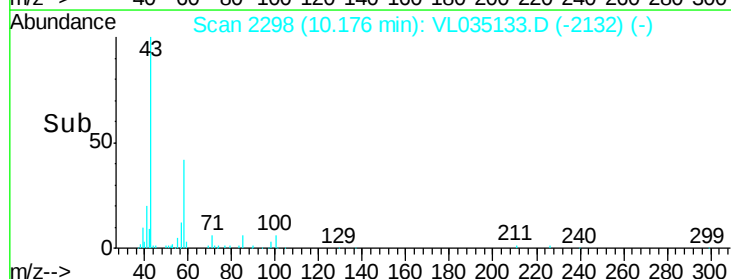
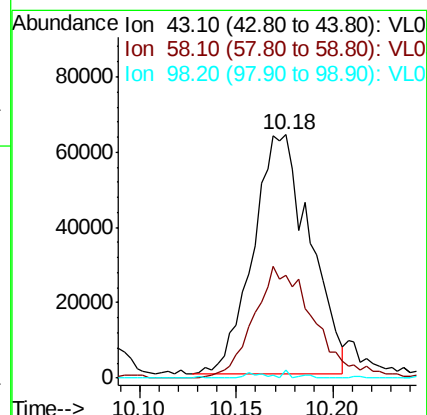
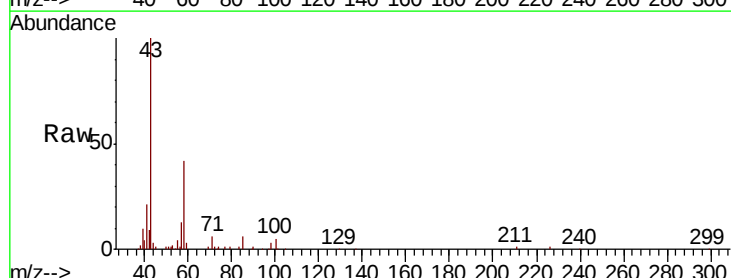
Instrument :
MSVOA_L
ClientSampleId :

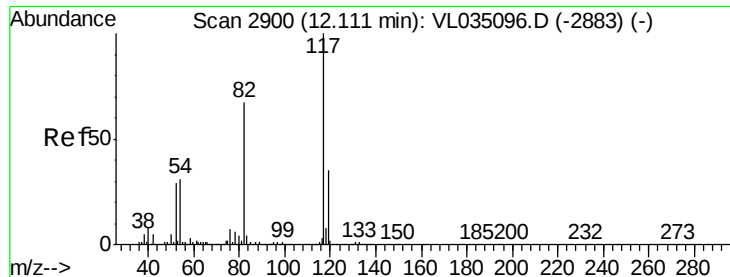
Tot Ion: 42 Resp: 42349
Ion Ratio Lower Upper
42 100
72 38.8 33.4 50.2
71 37.6 31.8 47.6



#51
2-Hexanone
Concen: 0.672 ppbv
RT: 10.18 min Scan# 2298
Delta R.T. 0.03 min
Lab File: VL035133.D
Acq: 30 Jun 2020 20:15

Tgt Ion: 43 Resp: 130813
Ion Ratio Lower Upper
43 100
58 49.3 39.2 58.8
98 1.2 0.3 0.5#

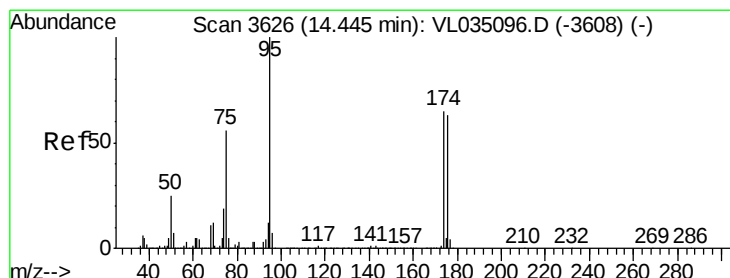
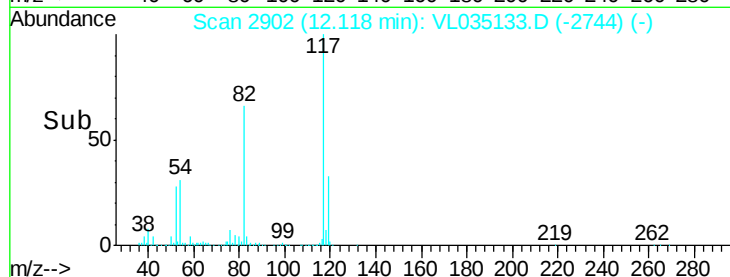
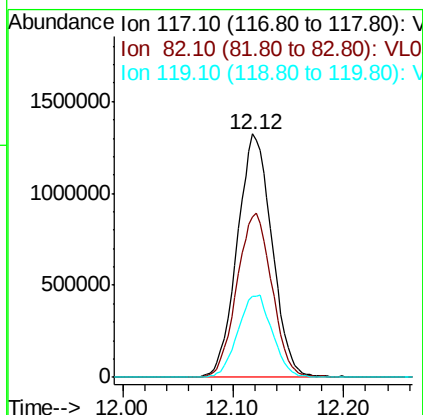
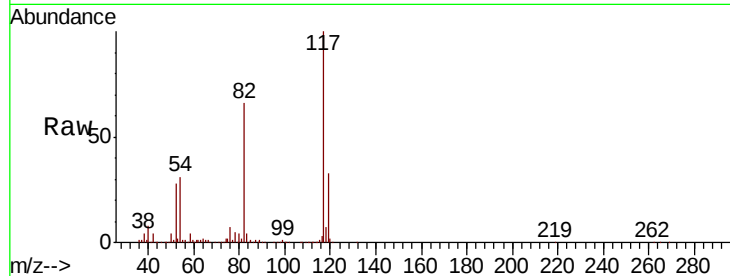




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. 0.01 min
Lab File: VL035133.D
Acq: 30 Jun 2020 20:15

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 117 Resp: 2886593
Ion Ratio Lower Upper
117 100
82 68.2 50.4 75.6
119 33.7 25.4 38.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.974 ppbv
RT: 14.46 min Scan# 3629
Delta R.T. 0.01 min
Lab File: VL035133.D
Acq: 30 Jun 2020 20:15

Tgt Ion: 95 Resp: 2391713
Ion Ratio Lower Upper
95 100
174 66.0 52.2 78.2
175 5.0 4.0 6.0

