

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035248.D
 Acq On : 29 Jul 2020 16:12
 Operator : SY/AP
 Sample : L3474-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:49:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 29 07:14:29 2020
 QLast Update : Wed Jul 29 07:14:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1368417	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3169713	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2971628	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2398798	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

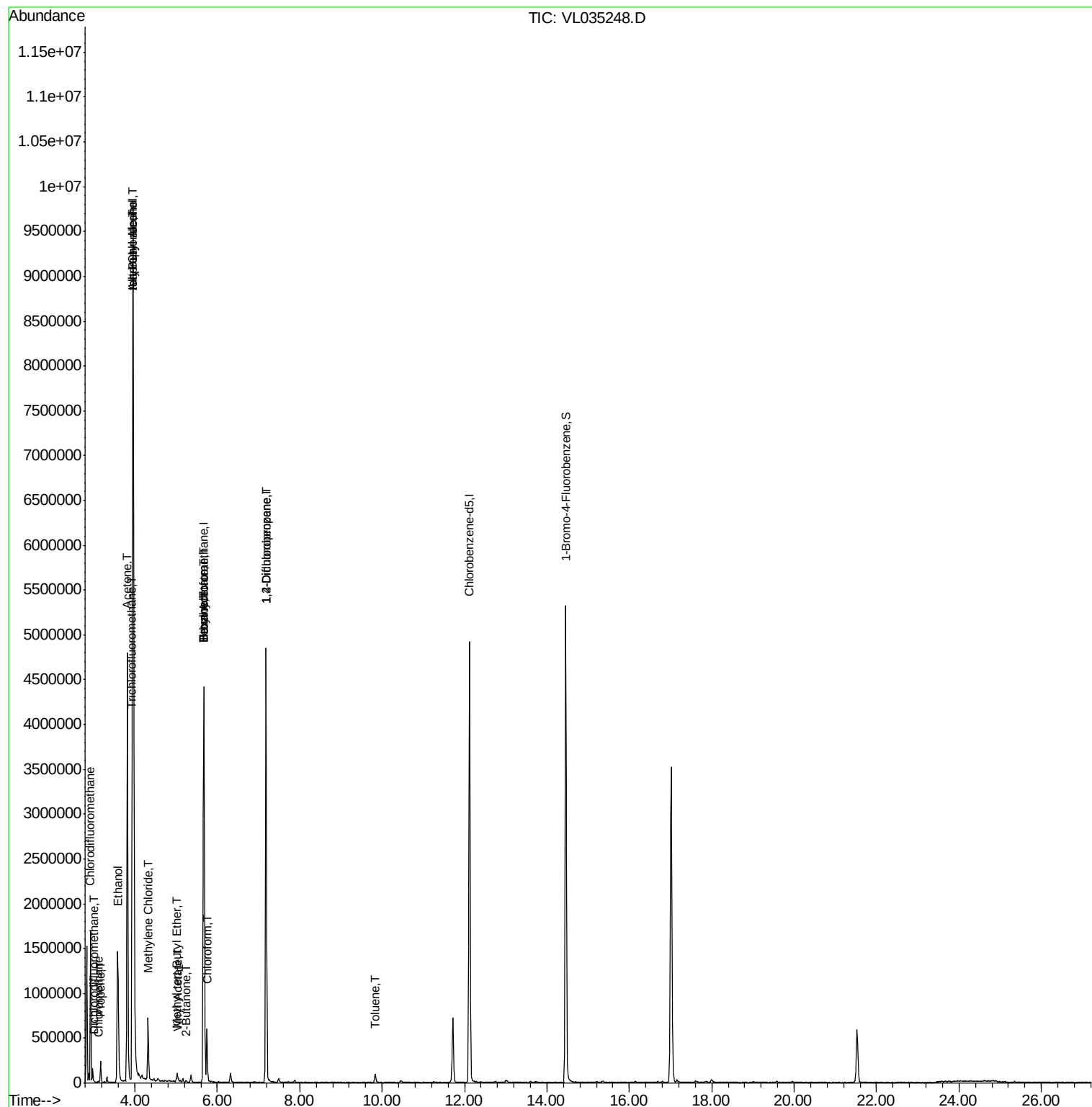
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	9214	0.056 ppbv #	88
3) Chlorodifluoromethane	2.92	51	927354	6.122 ppbv #	56
4) Chloromethane	3.10	50	3091	0.036 ppbv #	85
9) Propene	3.17	41	56994	1.079 ppbv	94
11) Trichlorofluoromethane	3.92	101	9658	0.044 ppbv #	58
13) Ethanol	3.58	45	2015919	93.806 ppbv	96
15) Acetone	3.81	43	4805812	26.329 ppbv	95
17) tert-Butyl alcohol	3.95	59	722180	4.099 ppbv	96
19) Isopropyl Alcohol	3.95	45	14027925	116.528 ppbv #	96
20) Methylene Chloride	4.32	84	232756	2.801 ppbv	95
21) Allyl Chloride	3.95	41	1854994	17.845 ppbv #	78
23) Vinyl Acetate	5.05	43	14169	0.077 ppbv #	66
25) Ethyl Acetate	5.68	43	749101	2.628 ppbv #	77
26) Hexane	5.68	57	1075105	8.361 ppbv #	42
28) Methyl tert-Butyl Ether	5.02	73	54121	0.294 ppbv	92
29) Chloroform	5.74	83	393573	1.825 ppbv	95
34) 2-Butanone	5.23	43	15081	0.094 ppbv	97
39) 1,2-Dichloropropane	7.18	63	865807	9.851 ppbv #	23
41) Tetrahydrofuran	5.68	42	396578	5.017 ppbv #	47
53) Toluene	9.83	91	69290	0.296 ppbv	96

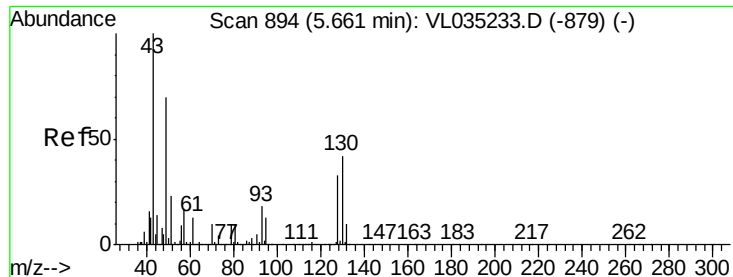
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 29 07:14:29 2020
QLast Update : Wed Jul 29 07:14:29 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

Lab File: VL035248.D

Acq: 29 Jul 2020 16:12

Instrument :
MSVOA_L
ClientSampleId :

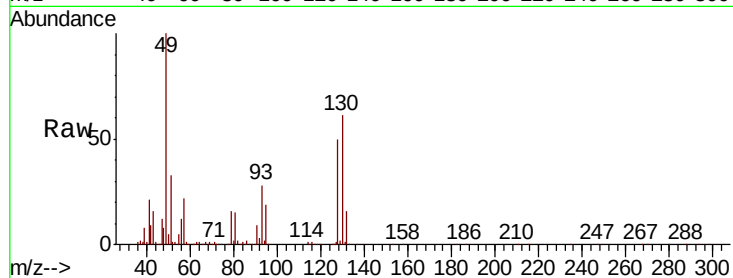
Tot Ion: 49 Resp: 1368417

Ion Ratio Lower Upper

49 100

128 48.6 24.0 72.0

130 62.8 30.7 92.1



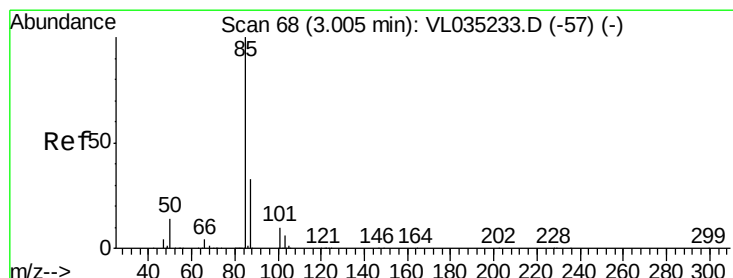
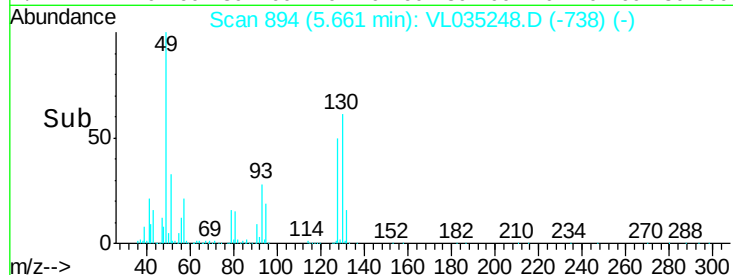
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.66

Time-->



#2

Dichlorodifluoromethane

Concen: 0.056 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035248.D

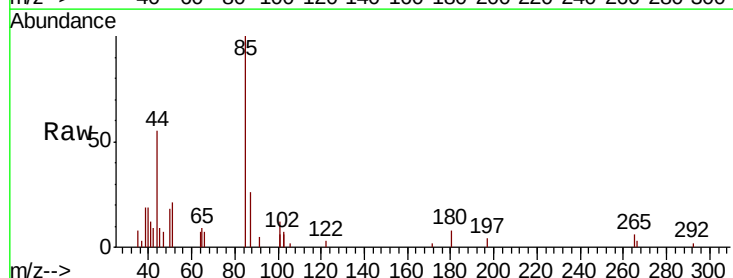
Acq: 29 Jul 2020 16:12

Tgt Ion: 85 Resp: 9214

Ion Ratio Lower Upper

85 100

87 26.3 26.7 40.1#

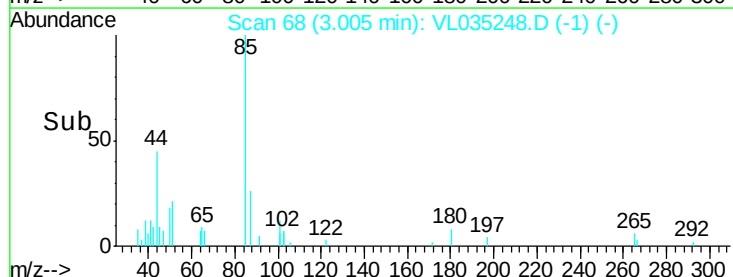


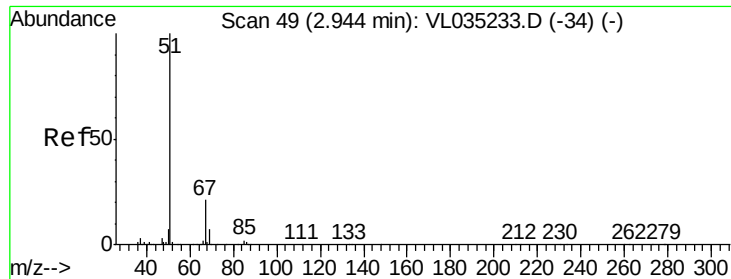
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.01

Time-->

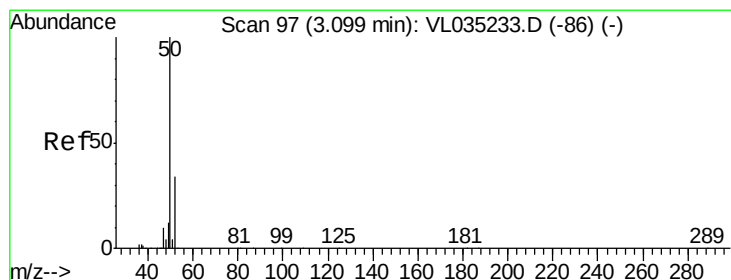
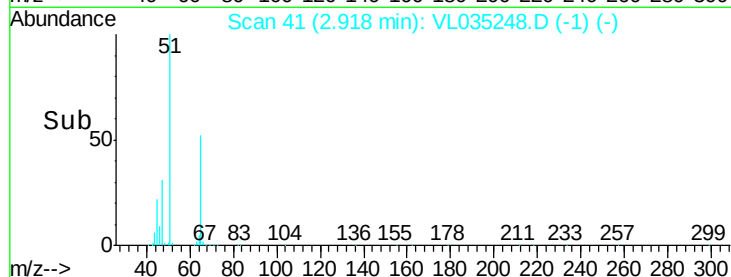
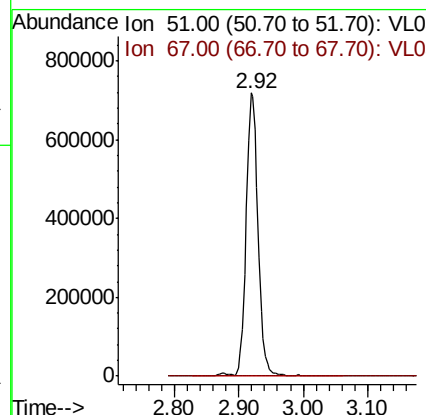
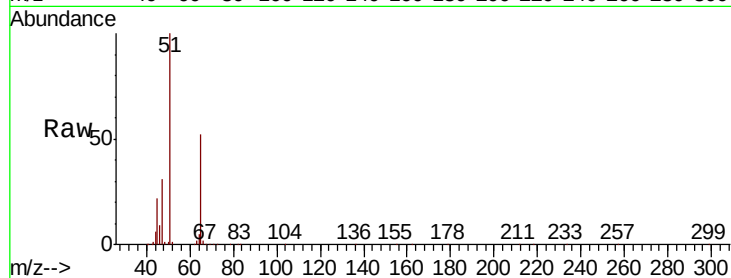




#3
 Chlorodifluoromethane
 Concen: 6.122 ppbv
 RT: 2.92 min Scan# 41
 Delta R.T. -0.03 min
 Lab File: VL035248.D
 Acq: 29 Jul 2020 16:12

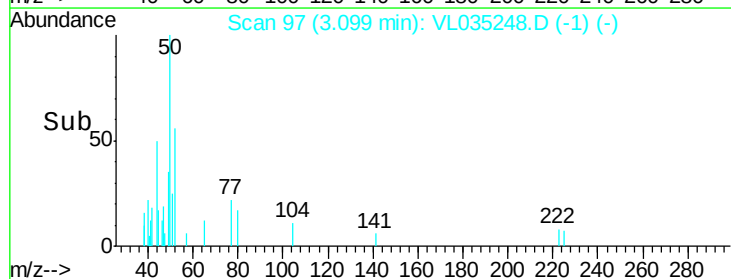
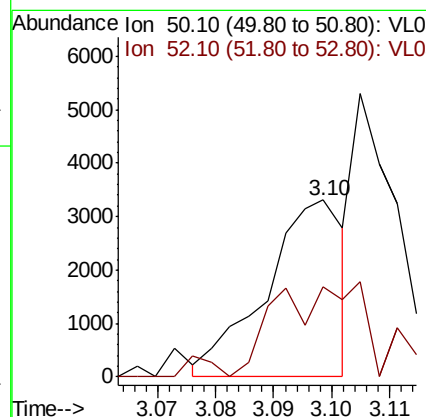
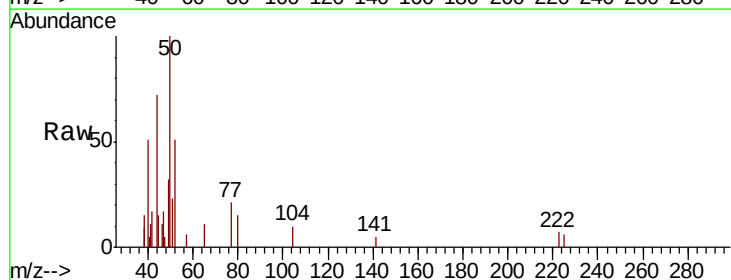
Instrument :
 MSVOA_L
 ClientSampled :

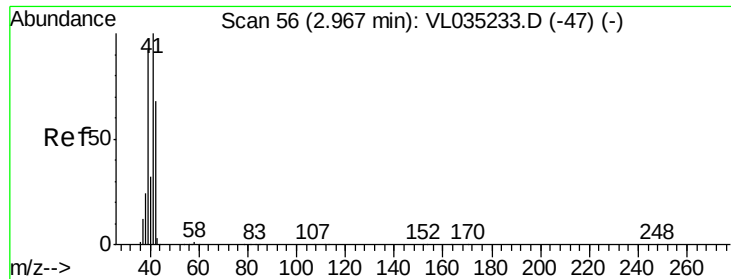
Tot Ion: 51 Resp: 927354
 Ion Ratio Lower Upper
 51 100
 67 0.4 16.6 25.0#



#4
 Chloromethane
 Concen: 0.036 ppbv
 RT: 3.10 min Scan# 97
 Delta R.T. 0.00 min
 Lab File: VL035248.D
 Acq: 29 Jul 2020 16:12

Tgt Ion: 50 Resp: 3091
 Ion Ratio Lower Upper
 50 100
 52 42.4 27.1 40.7#





#9

Propene

Concen: 1.079 ppbv

RT: 3.17 min Scan# 118

Delta R.T. 0.20 min

Lab File: VL035248.D

Acq: 29 Jul 2020 16:12

Instrument :

MSVOA_L

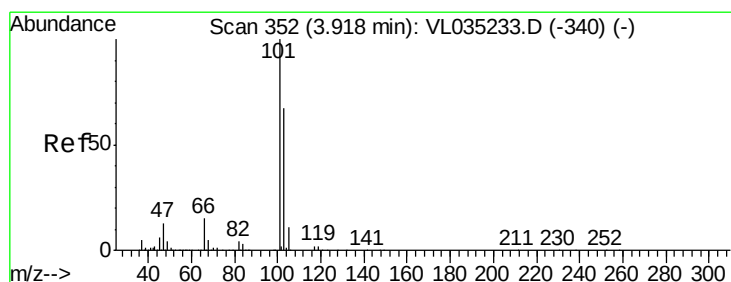
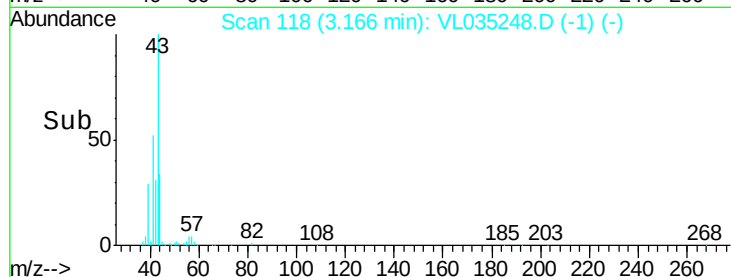
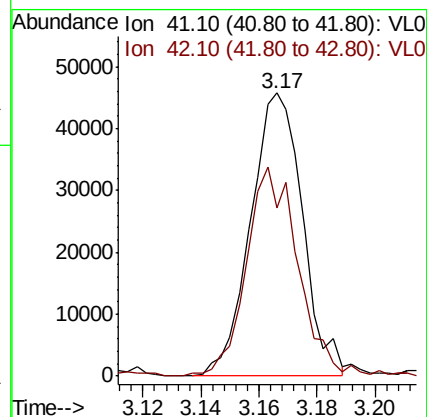
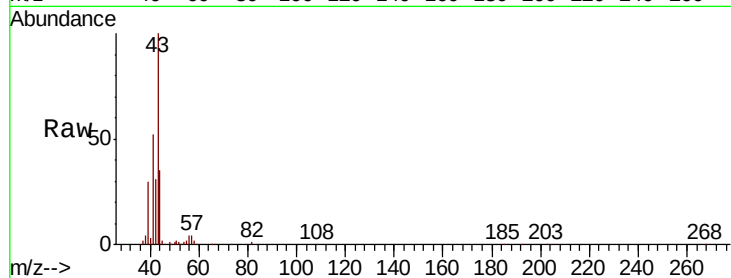
ClientSampleId :

Tot Ion: 41 Resp: 56994

Ion Ratio Lower Upper

41 100

42 73.9 55.0 82.6



#11

Trichlorofluoromethane

Concen: 0.044 ppbv

RT: 3.92 min Scan# 352

Delta R.T. 0.00 min

Lab File: VL035248.D

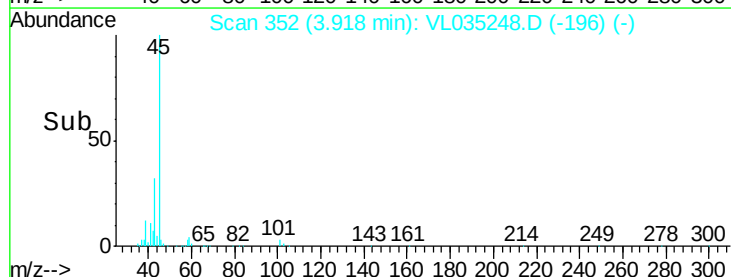
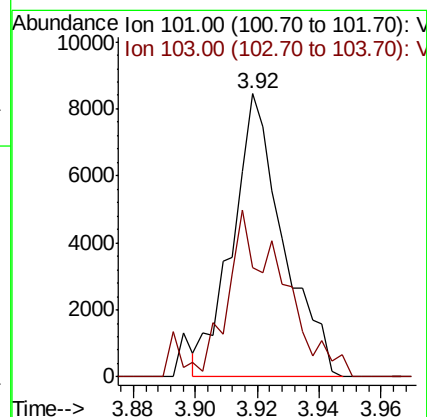
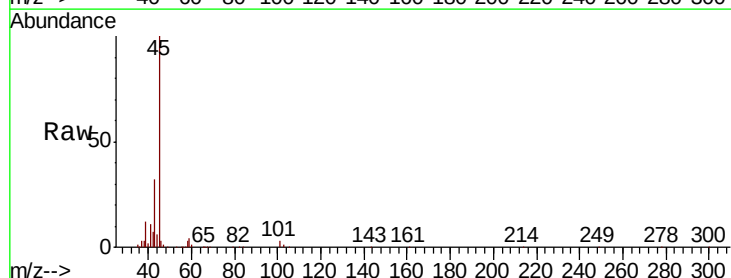
Acq: 29 Jul 2020 16:12

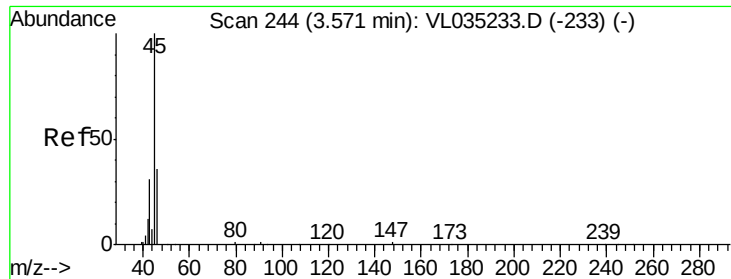
Tgt Ion: 101 Resp: 9658

Ion Ratio Lower Upper

101 100

103 33.4 53.4 80.0#

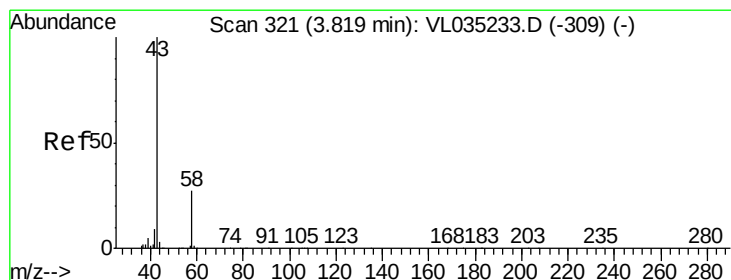
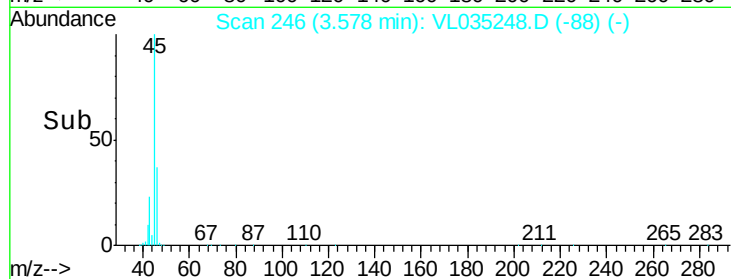
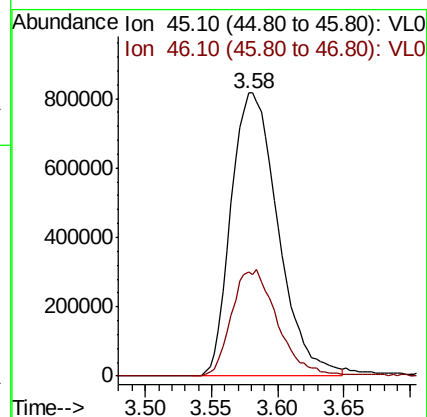
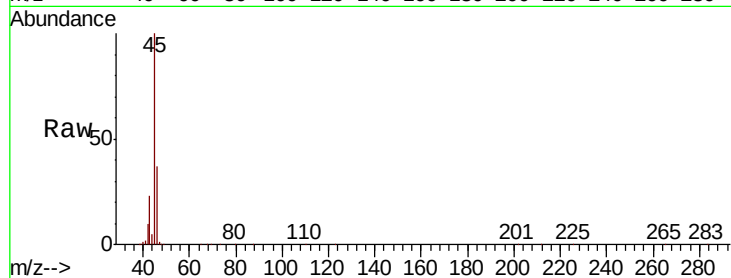




#13
Ethanol
Concen: 93.806 ppbv
RT: 3.58 min Scan# 246
Delta R.T. 0.01 min
Lab File: VL035248.D
Acq: 29 Jul 2020 16:12

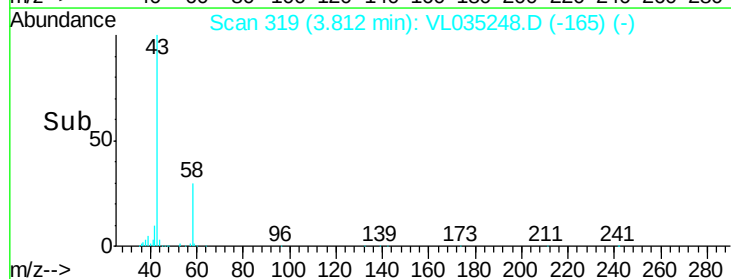
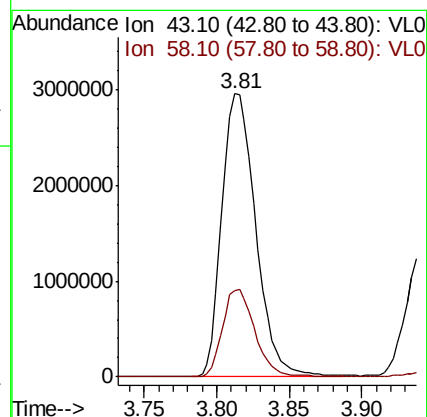
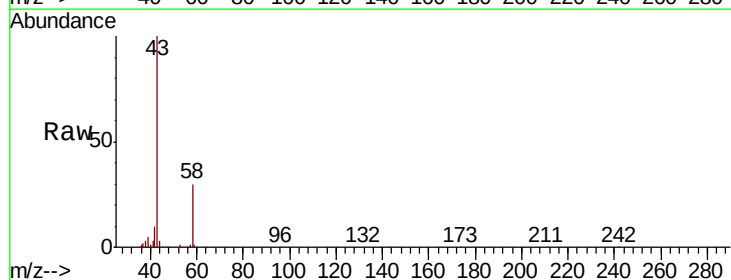
Instrument :
MSVOA_L
ClientSampleId :

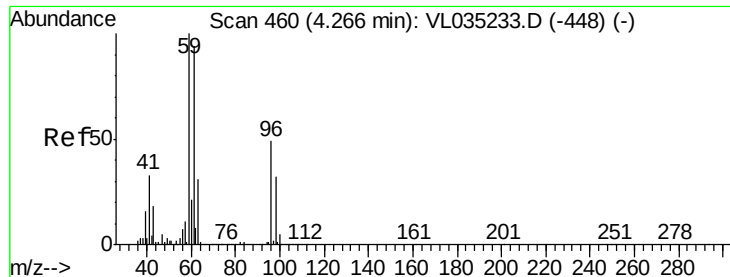
Tot Ion: 45 Resp: 2015919
Ion Ratio Lower Upper
45 100
46 37.3 15.8 63.4



#15
Acetone
Concen: 26.329 ppbv
RT: 3.81 min Scan# 319
Delta R.T. -0.01 min
Lab File: VL035248.D
Acq: 29 Jul 2020 16:12

Tgt Ion: 43 Resp: 4805812
Ion Ratio Lower Upper
43 100
58 29.6 21.8 32.6



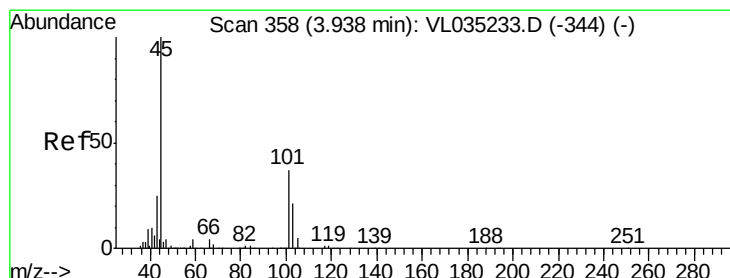
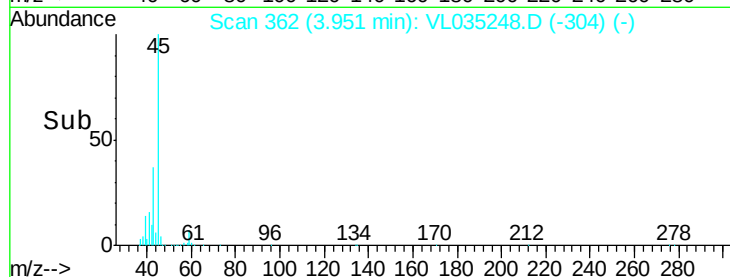
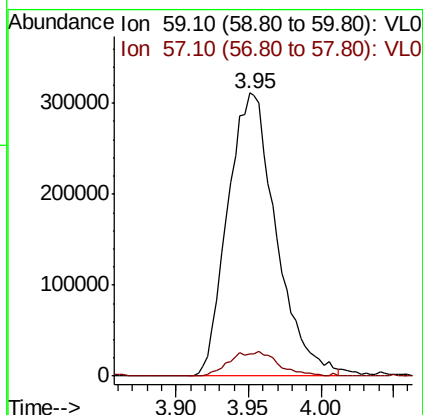
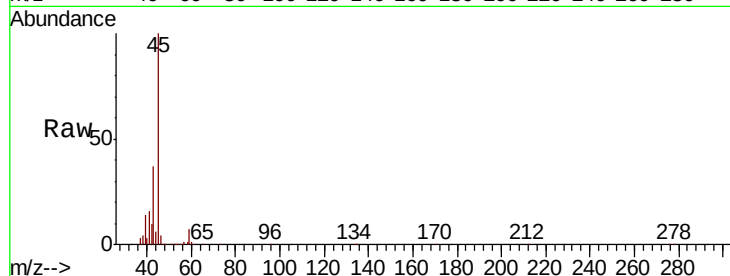


#17

tert-Butyl alcohol
 Concen: 4.099 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.32 min
 Lab File: VL035248.D
 Acq: 29 Jul 2020 16:12

Instrument :
 MSVOA_L
 ClientSampleId :

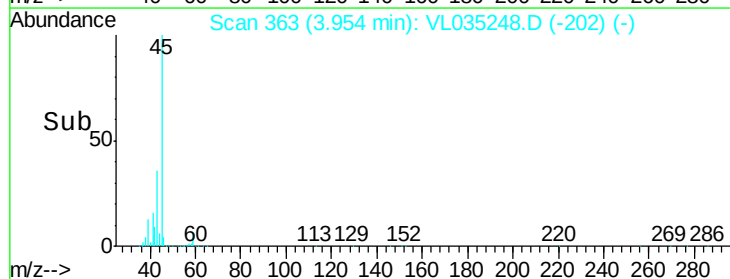
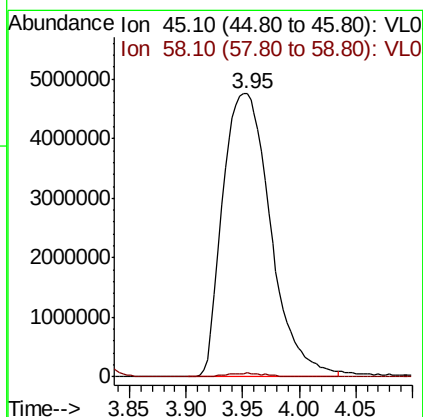
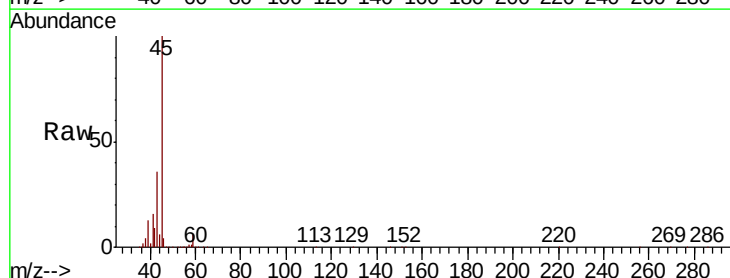
Tot Ion: 59 Resp: 722180
 Ion Ratio Lower Upper
 59 100
 57 9.1 8.6 12.8

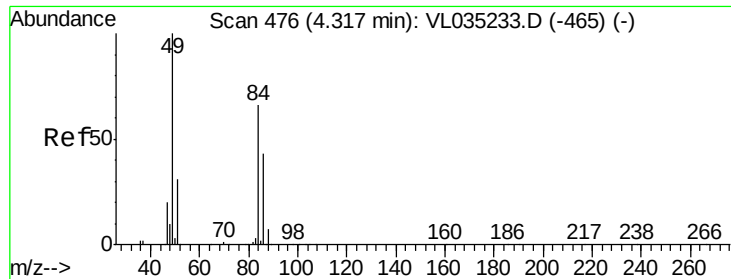


#19

Isopropyl Alcohol
 Concen: 116.528 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. 0.02 min
 Lab File: VL035248.D
 Acq: 29 Jul 2020 16:12

Tgt Ion: 45 Resp:14027925
 Ion Ratio Lower Upper
 45 100
 58 1.1 1.9 2.9#

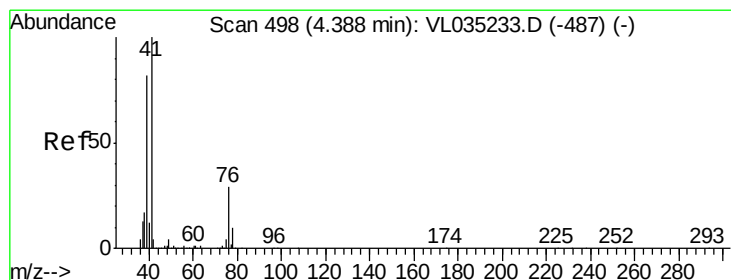
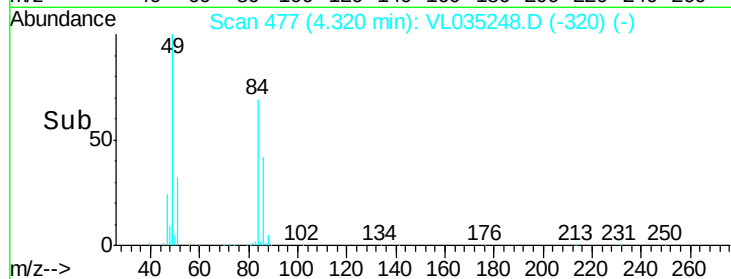
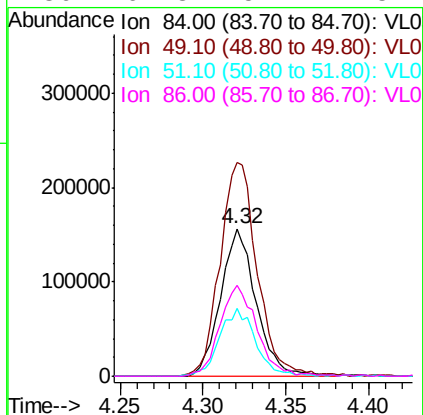
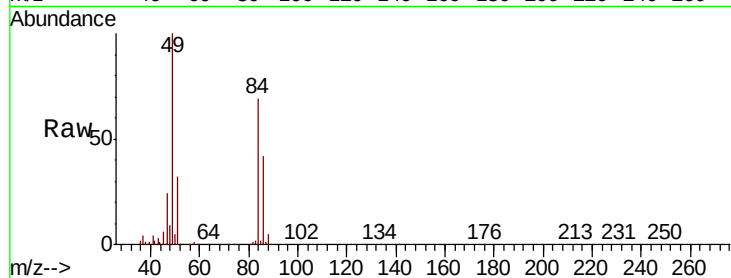




#20
Methylene Chloride
Concen: 2.801 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.00 min
Lab File: VL035248.D
Acq: 29 Jul 2020 16:12

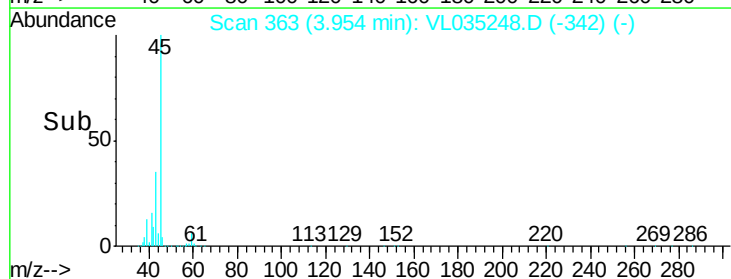
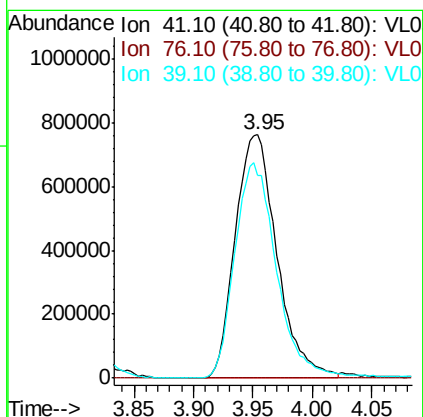
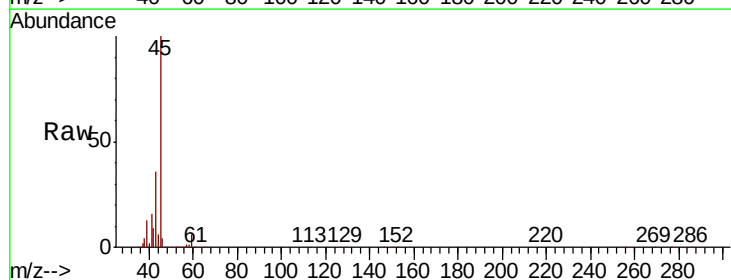
Instrument :
MSVOA_L
ClientSampleId :

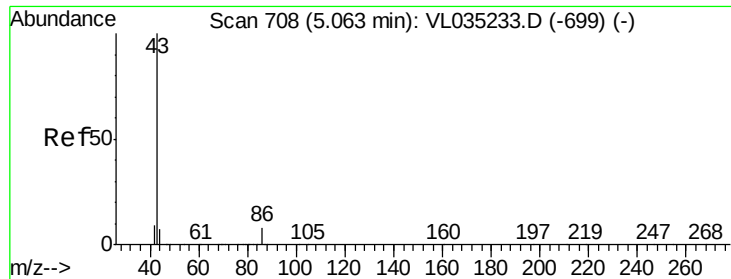
Tot Ion:	84	Resp:	232756
Ion	Ratio	Lower	Upper
84	100		
49	144.3	121.0	181.4
51	46.2	37.7	56.5
86	61.3	52.2	78.4



#21
Allyl Chloride
Concen: 17.845 ppbv
RT: 3.95 min Scan# 363
Delta R.T. -0.43 min
Lab File: VL035248.D
Acq: 29 Jul 2020 16:12

Tgt Ion:	41	Resp:	1854994
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.4	36.6#
39	88.1	63.8	95.8





#23

Vinyl Acetate

Concen: 0.077 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL035248.D

Acq: 29 Jul 2020 16:12

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 14169

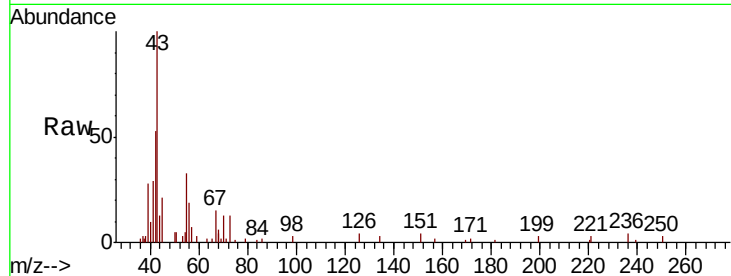
Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.2#

42 29.6 8.0 12.0#

44 0.0 5.2 7.8#

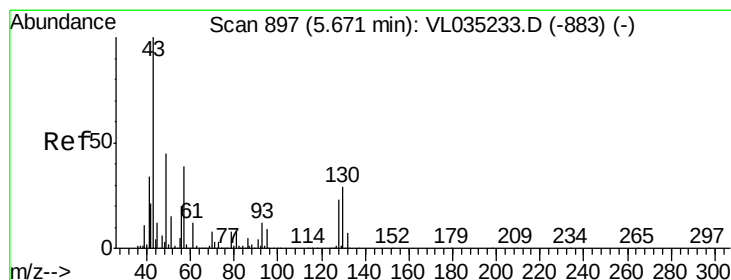
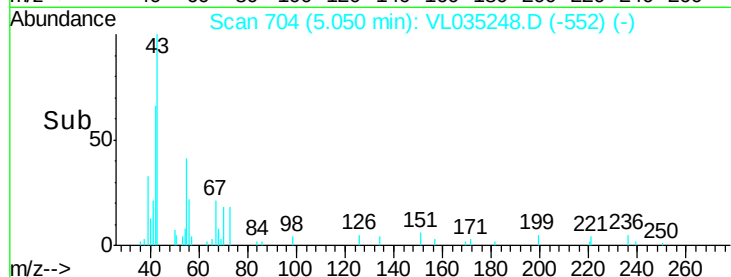
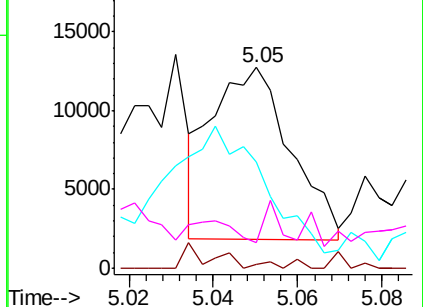


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 2.628 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL035248.D

Acq: 29 Jul 2020 16:12

Tgt Ion: 43 Resp: 749101

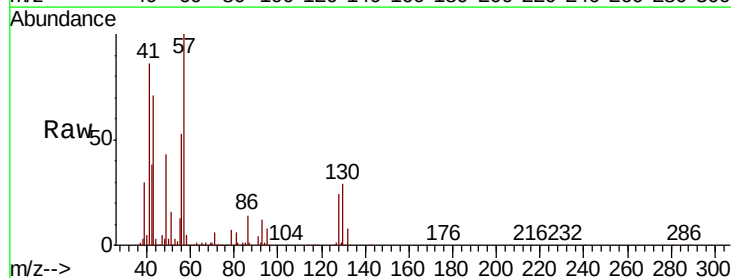
Ion Ratio Lower Upper

43 100

45 1.0 8.5 12.7#

61 0.9 8.1 12.1#

70 2.0 6.2 9.4#

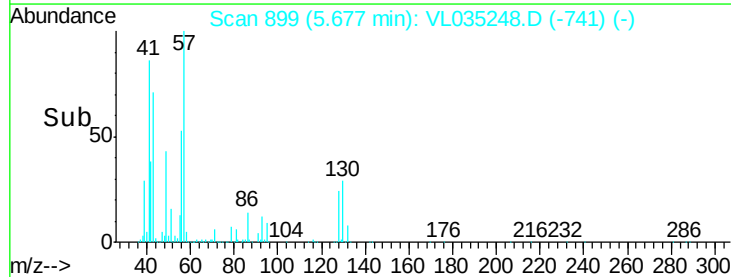
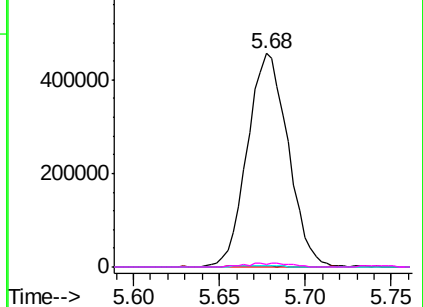


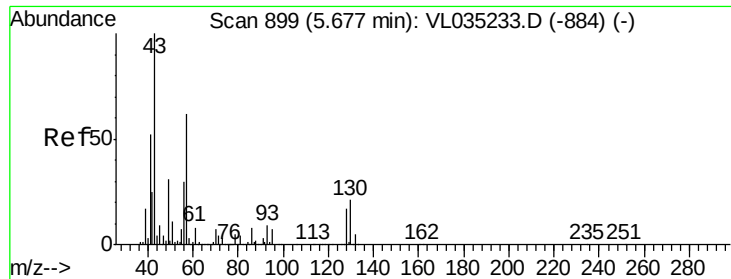
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

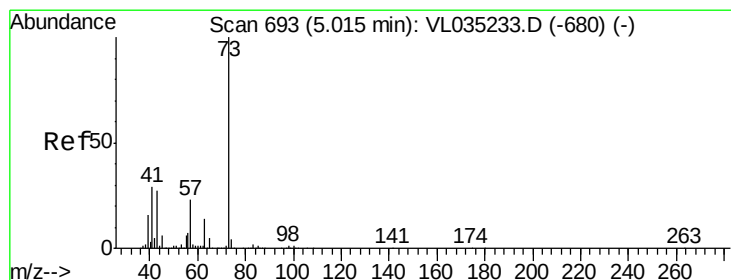
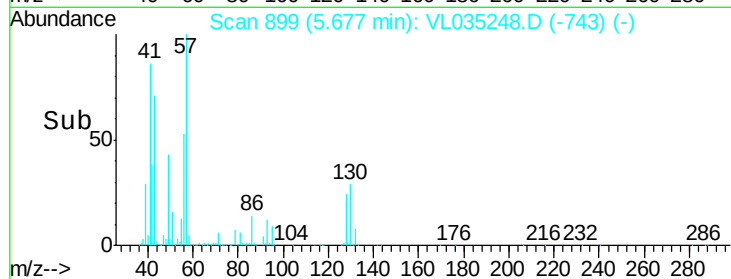
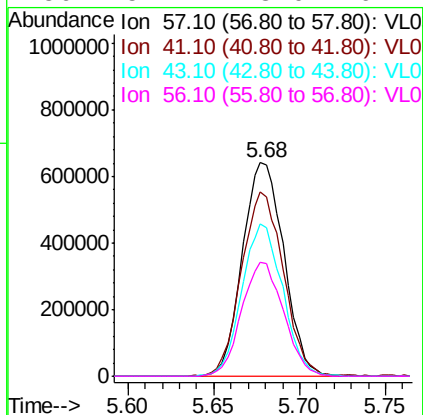
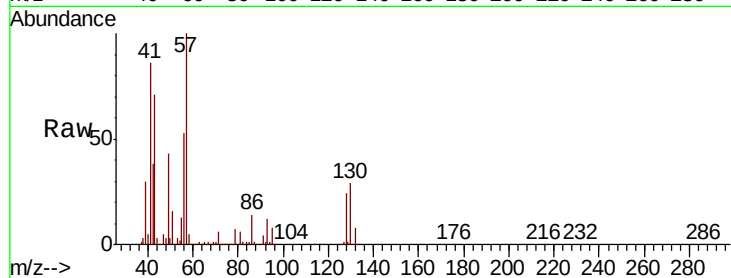




#26
Hexane
Concen: 8.361 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL035248.D
Acq: 29 Jul 2020 16:12

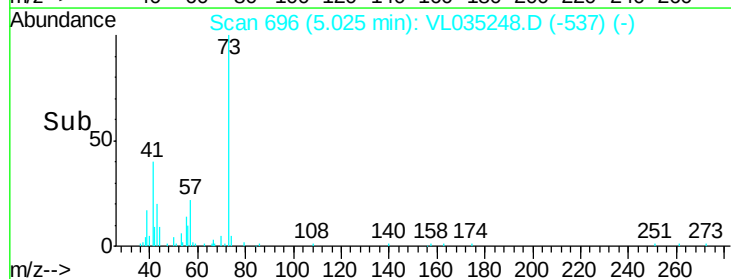
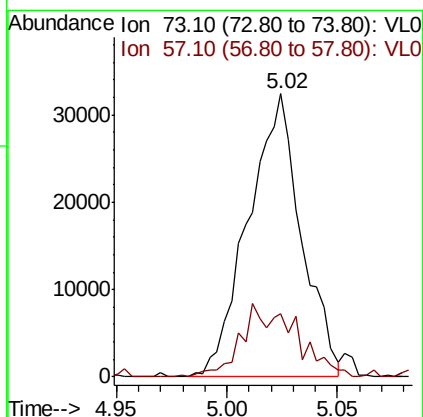
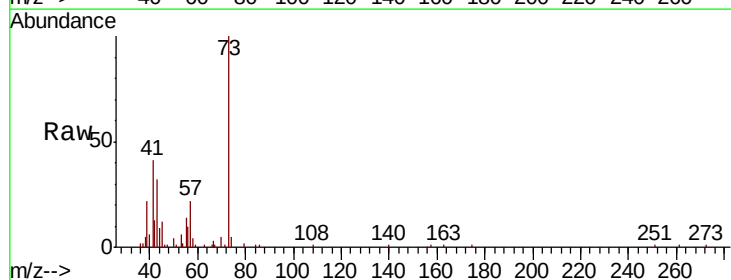
Instrument :
MSVOA_L
ClientSampleId :

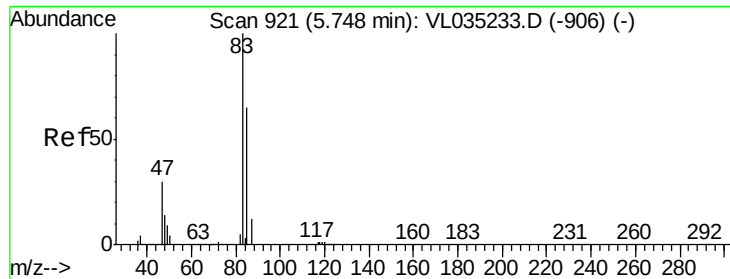
Tot Ion: 57 Resp: 1075105
Ion Ratio Lower Upper
57 100
41 87.7 73.9 110.9
43 70.1 177.6 266.4#
56 54.1 43.0 64.4



#28
Methyl tert-Butyl Ether
Concen: 0.294 ppbv
RT: 5.02 min Scan# 696
Delta R.T. 0.01 min
Lab File: VL035248.D
Acq: 29 Jul 2020 16:12

Tgt Ion: 73 Resp: 54121
Ion Ratio Lower Upper
73 100
57 26.8 18.2 27.4





#29

Chloroform

Concen: 1.825 ppbv

RT: 5.74 min Scan# 920

Delta R.T. -0.00 min

Lab File: VL035248.D

Acq: 29 Jul 2020 16:12

Instrument :

MSVOA_L

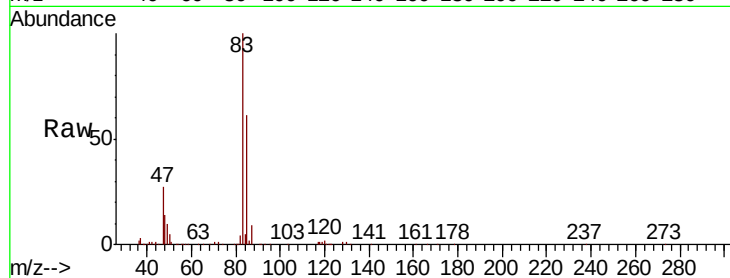
ClientSampleId :

Tot Ion: 83 Resp: 393573

Ion Ratio Lower Upper

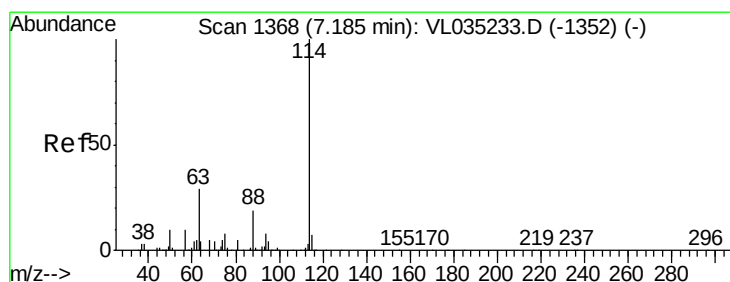
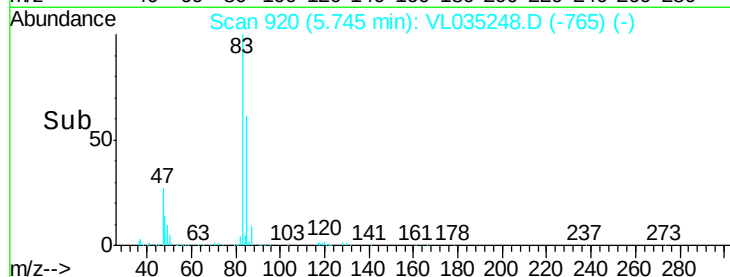
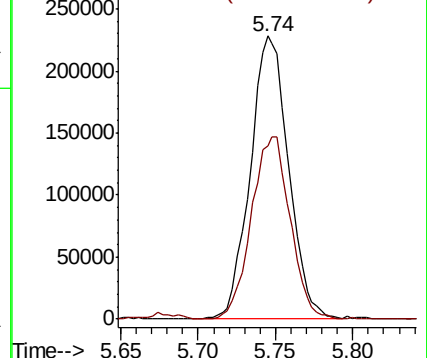
83 100

85 61.0 51.7 77.5



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: 7.18 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VL035248.D

Acq: 29 Jul 2020 16:12

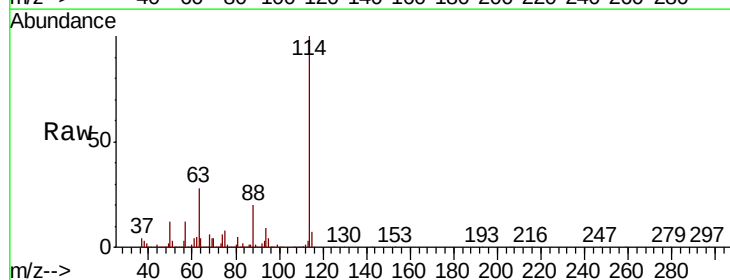
Tgt Ion: 114 Resp: 3169713

Ion Ratio Lower Upper

114 100

63 27.4 22.2 33.2

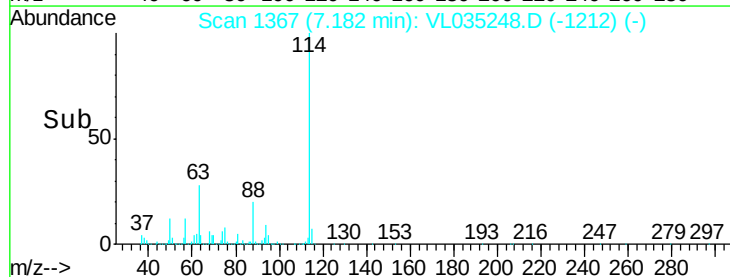
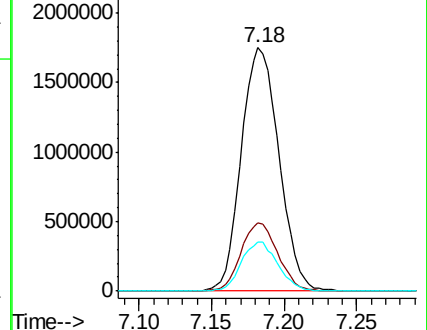
88 19.6 15.4 23.0

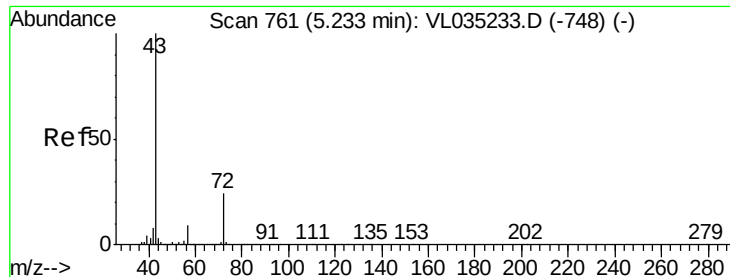


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

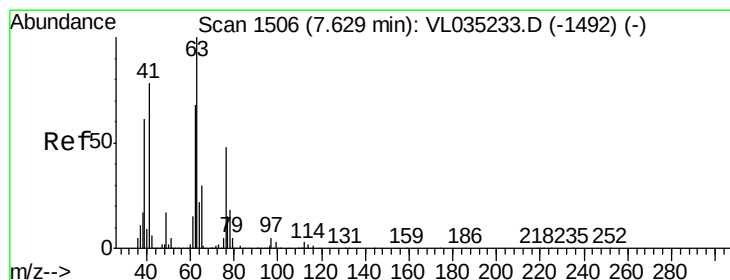
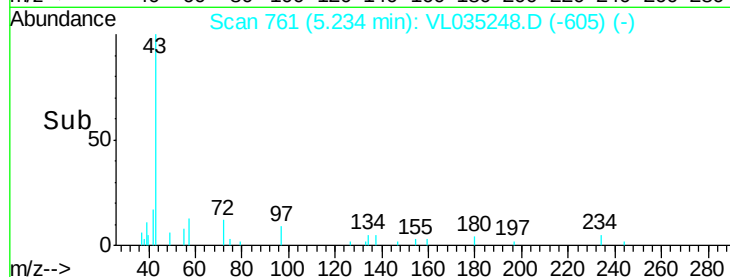
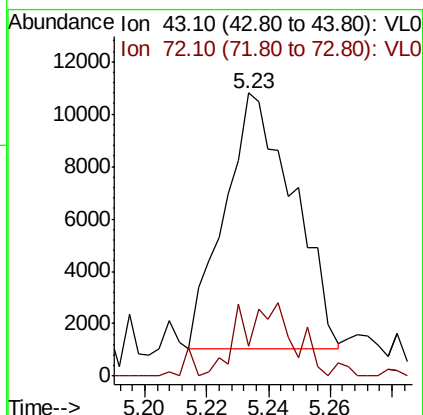
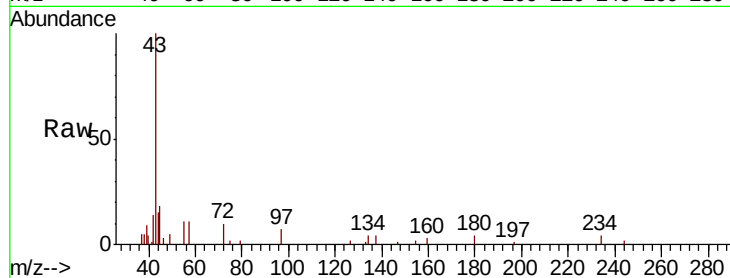




#34
2-Butanone
Concen: 0.094 ppbv
RT: 5.23 min Scan# 761
Delta R.T. 0.00 min
Lab File: VL035248.D
Acq: 29 Jul 2020 16:12

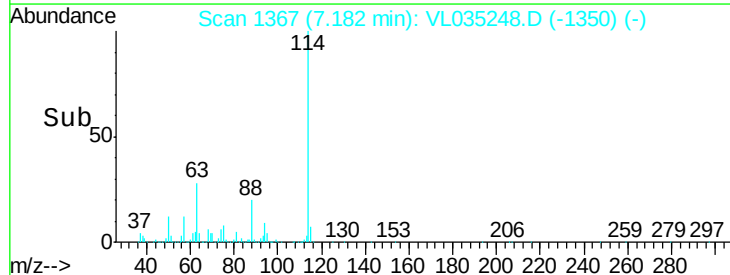
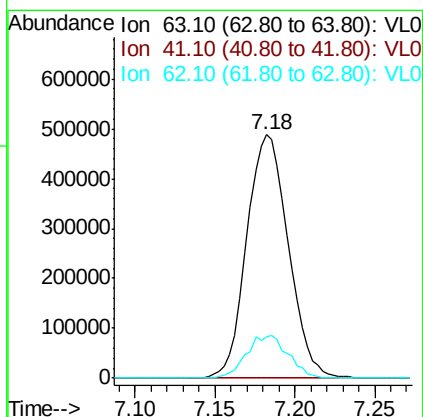
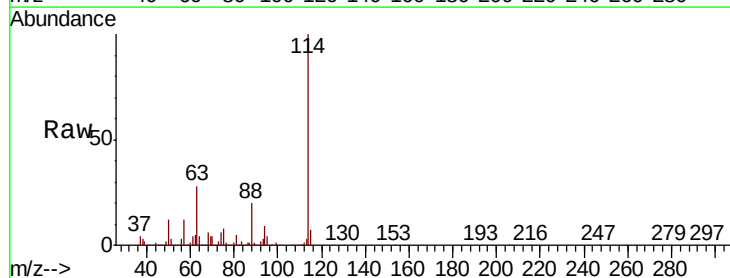
Instrument :
MSVOA_L
ClientSampled :

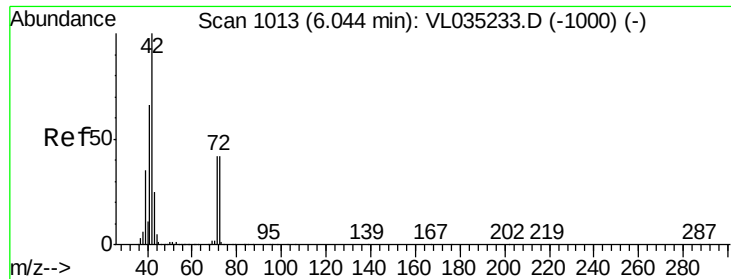
Tot Ion: 43 Resp: 15081
Ion Ratio Lower Upper
43 100
72 25.3 19.2 28.8



#39
1,2-Dichloropropane
Concen: 9.851 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.45 min
Lab File: VL035248.D
Acq: 29 Jul 2020 16:12

Tgt Ion: 63 Resp: 865807
Ion Ratio Lower Upper
63 100
41 0.0 62.2 93.4#
62 16.9 54.2 81.2#

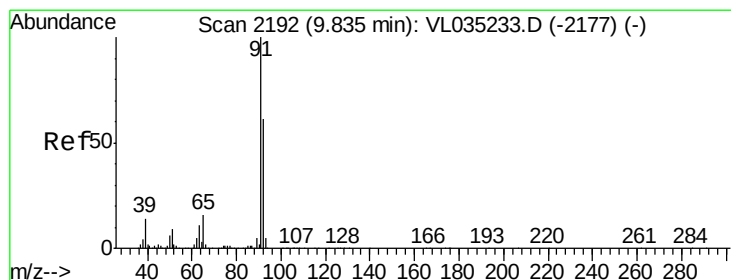
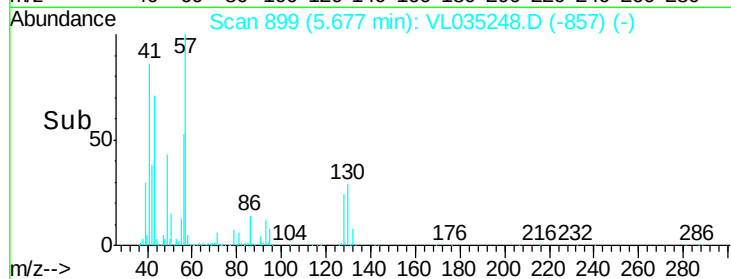
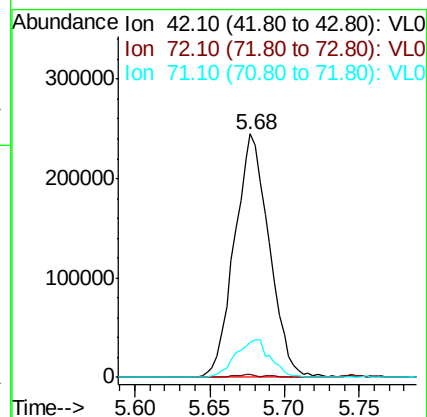
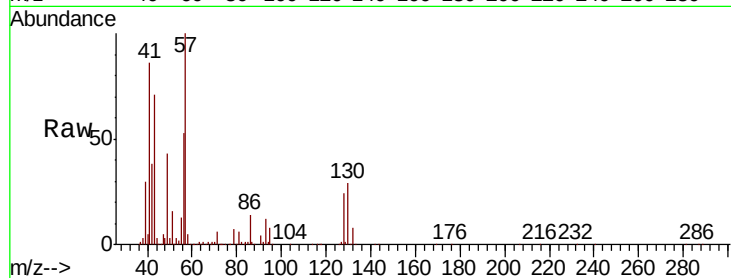




#41
Tetrahydrofuran
Concen: 5.017 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.37 min
Lab File: VL035248.D
Acq: 29 Jul 2020 16:12

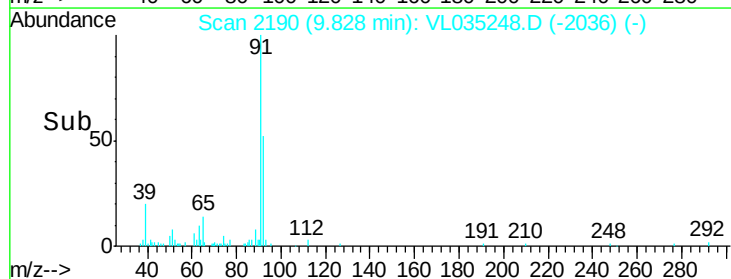
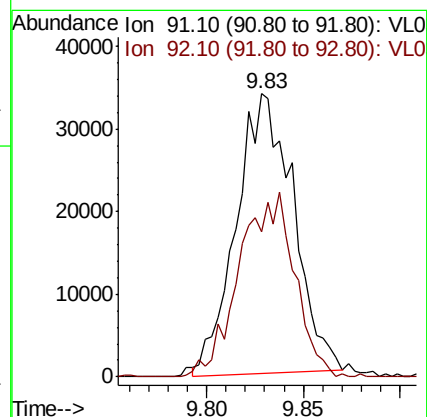
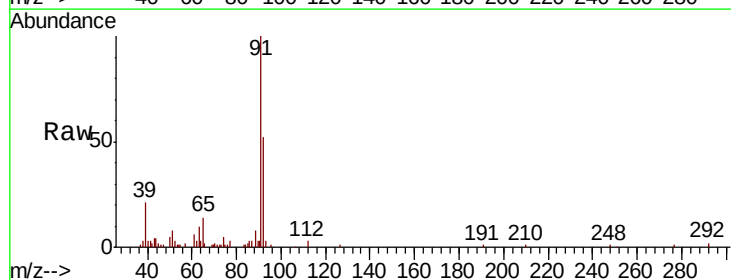
Instrument :
MSVOA_L
ClientSampleId :

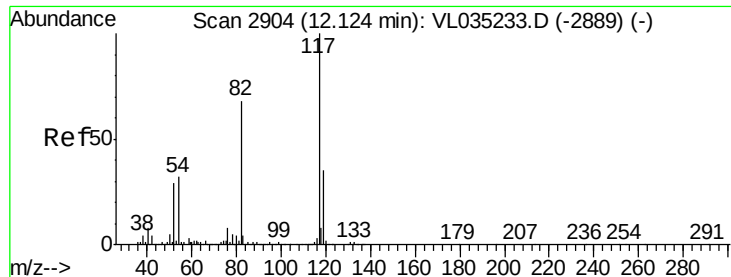
Tot Ion: 42 Resp: 396578
Ion Ratio Lower Upper
42 100
72 1.1 34.2 51.2#
71 15.6 33.2 49.8#



#53
Toluene
Concen: 0.296 ppbv
RT: 9.83 min Scan# 2190
Delta R.T. -0.01 min
Lab File: VL035248.D
Acq: 29 Jul 2020 16:12

Tgt Ion: 91 Resp: 69290
Ion Ratio Lower Upper
91 100
92 63.8 48.5 72.7

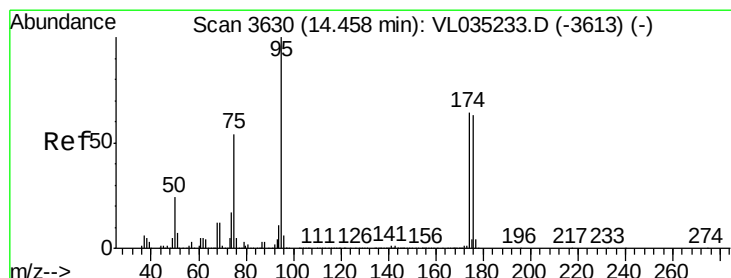
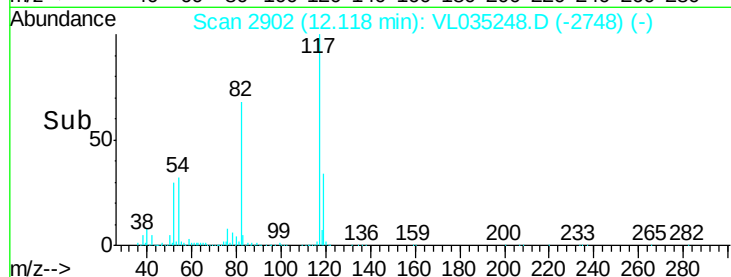
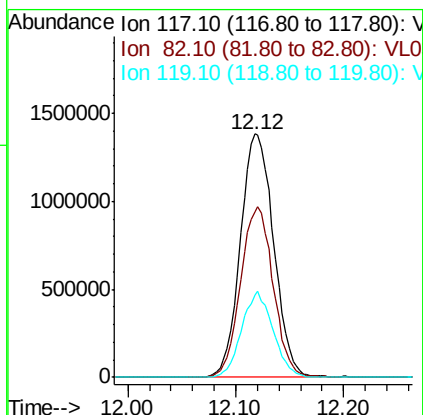
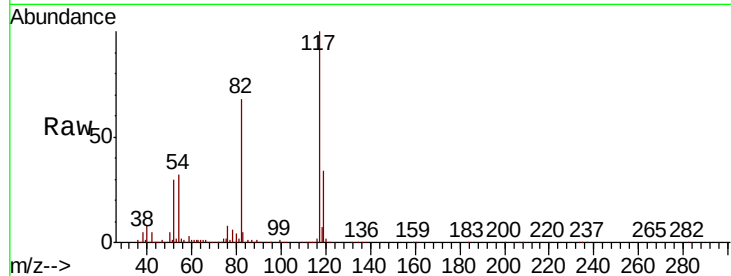




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. -0.01 min
Lab File: VL035248.D
Acq: 29 Jul 2020 16:12

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2971628
Ion Ratio Lower Upper
117 100
82 68.7 52.4 78.6
119 33.5 24.6 36.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.102 ppbv
RT: 14.46 min Scan# 3630
Delta R.T. 0.00 min
Lab File: VL035248.D
Acq: 29 Jul 2020 16:12

Tgt Ion: 95 Resp: 2398798
Ion Ratio Lower Upper
95 100
174 64.9 52.7 79.1
175 4.9 3.9 5.9

