

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036088.D
 Acq On : 8 Dec 2020 6:22
 Operator : SY/AP
 Sample : L4948-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2BDL

Quant Time: Dec 08 08:42:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1273620	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2779019	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2500511	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2031716	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

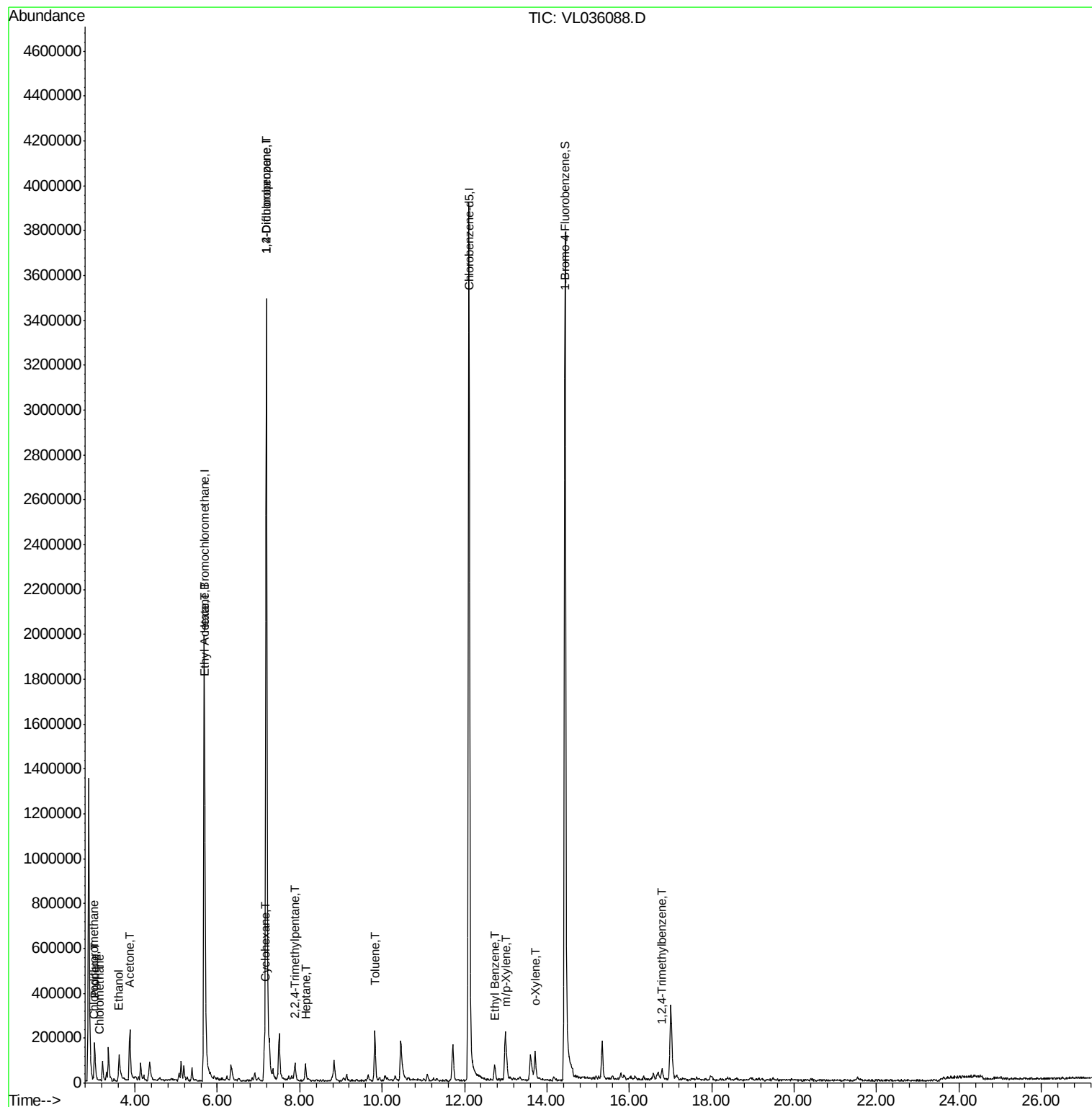
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	7428	0.051	ppbv	99
4) Chloromethane	3.14	50	2972	0.042	ppbv #	83
9) Propene	3.02	41	64926	0.892	ppbv	87
10) Heptane	8.14	43	17210	0.093	ppbv #	29
13) Ethanol	3.61	45	62287	6.207	ppbv #	1
15) Acetone	3.86	43	224926	1.469	ppbv	100
25) Ethyl Acetate	5.70	43	85469	0.279	ppbv #	81
26) Hexane	5.70	57	103013	0.749	ppbv #	42
30) Cyclohexane	7.15	84	34267	0.339	ppbv #	21
39) 1,2-Dichloropropane	7.19	63	813893	8.751	ppbv #	23
44) 2,2,4-Trimethylpentane	7.89	57	59127	0.139	ppbv #	82
53) Toluene	9.83	91	157266	0.595	ppbv	98
58) Ethyl Benzene	12.73	91	31203	0.091	ppbv	97
59) m/p-Xylene	13.02	91	37397	0.130	ppbv #	34
60) o-Xylene	13.72	91	78586	0.289	ppbv	91
74) 1,2,4-Trimethylbenzene	16.79	105	23731	0.084	ppbv #	64

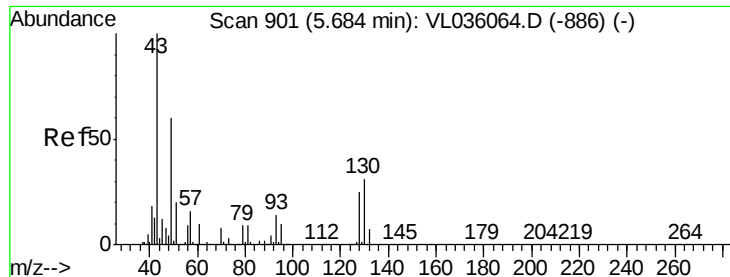
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL036088.D

Acq: 8 Dec 2020 6:22

Instrument :

MSVOA_L

ClientSampled :

IA-2BDL

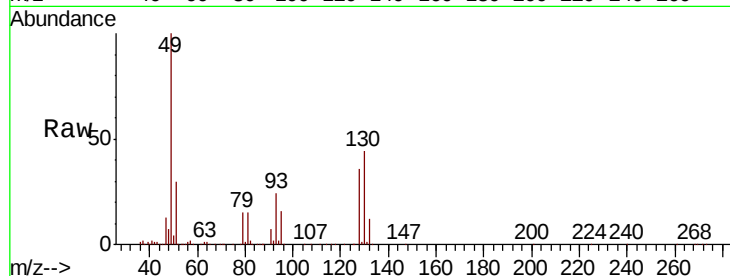
Tot Ion: 49 Resp: 1273620

Ion Ratio Lower Upper

49 100

128 38.8 21.1 63.1

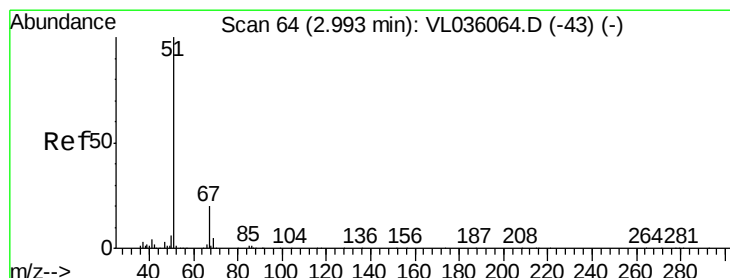
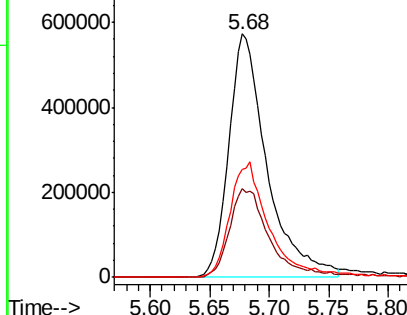
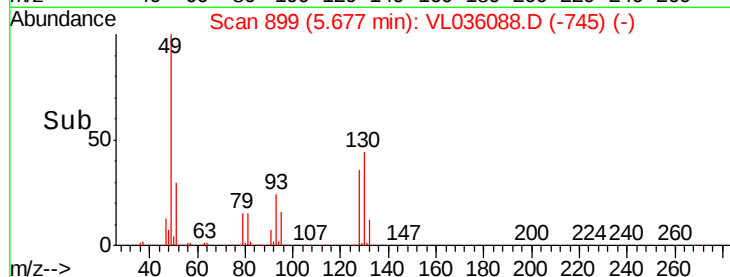
130 48.6 27.1 81.3



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



#3

Chlorodifluoromethane

Concen: 0.051 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL036088.D

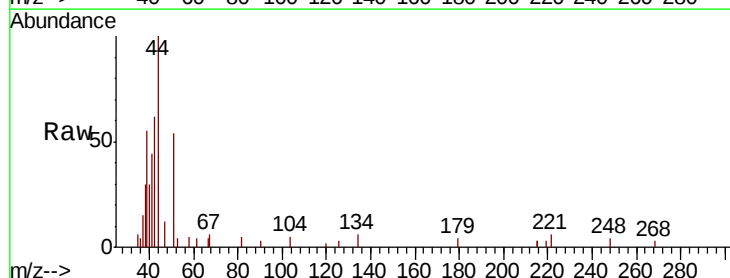
Acq: 8 Dec 2020 6:22

Tgt Ion: 51 Resp: 7428

Ion Ratio Lower Upper

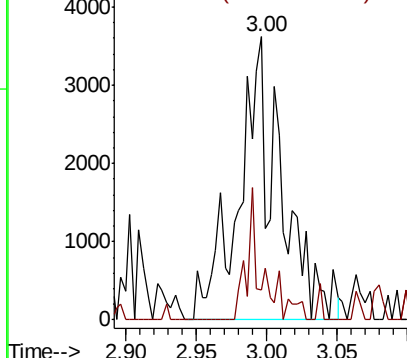
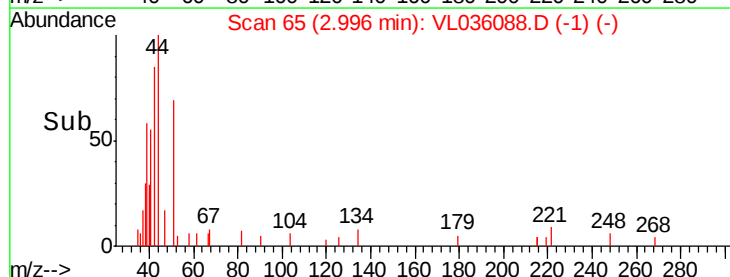
51 100

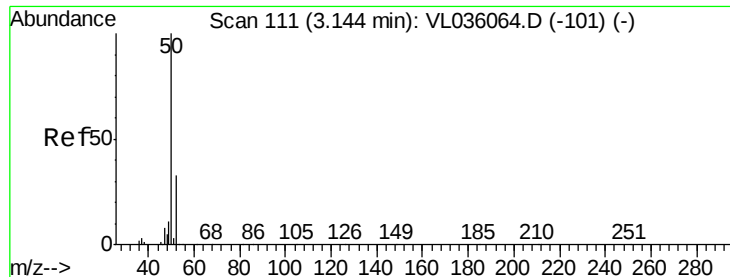
67 18.4 14.3 21.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.042 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL036088.D

Acq: 8 Dec 2020 6:22

Instrument :

MSVOA_L

ClientSampleId :

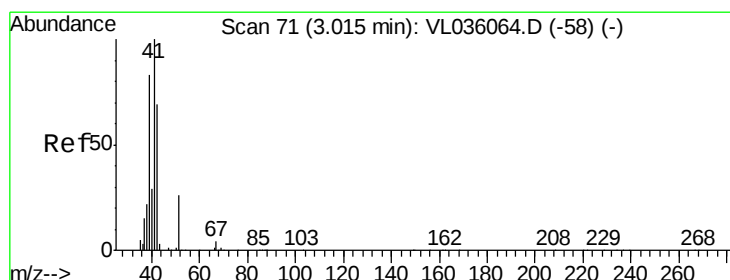
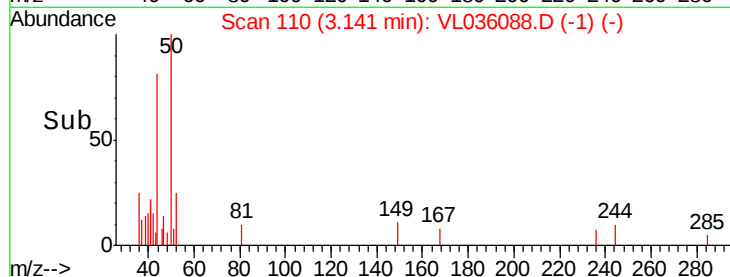
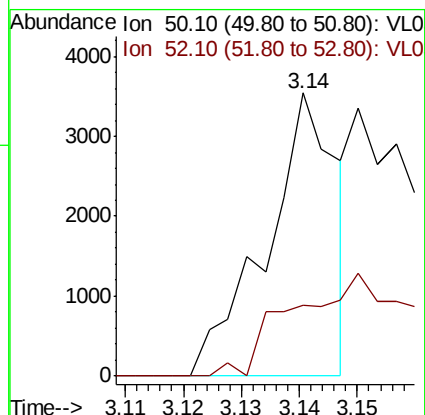
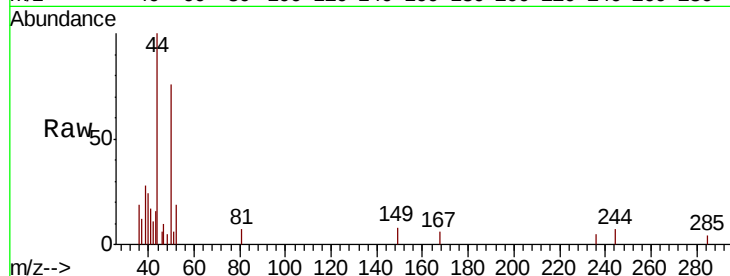
IA-2BDL

Tot Ion: 50 Resp: 2972

Ion Ratio Lower Upper

50 100

52 23.0 26.1 39.1#



#9

Propene

Concen: 0.892 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL036088.D

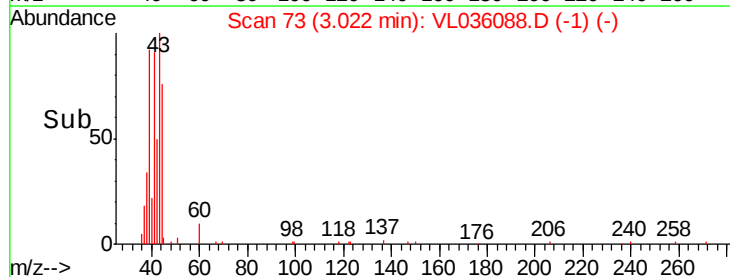
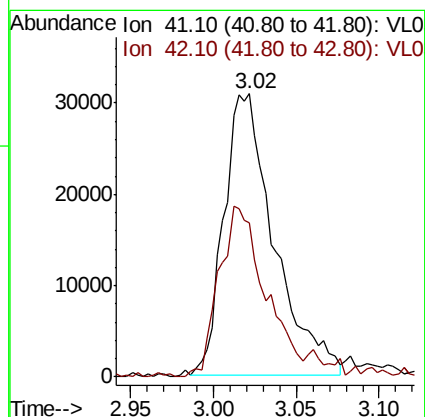
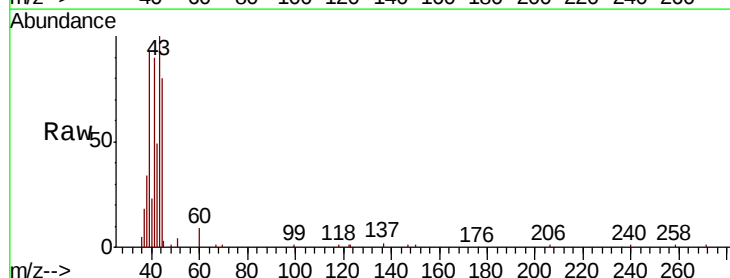
Acq: 8 Dec 2020 6:22

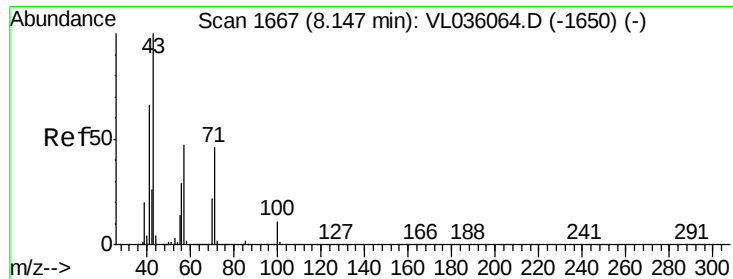
Tgt Ion: 41 Resp: 64926

Ion Ratio Lower Upper

41 100

42 60.6 57.0 85.6

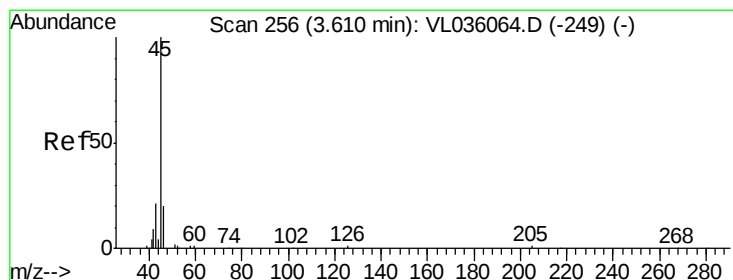
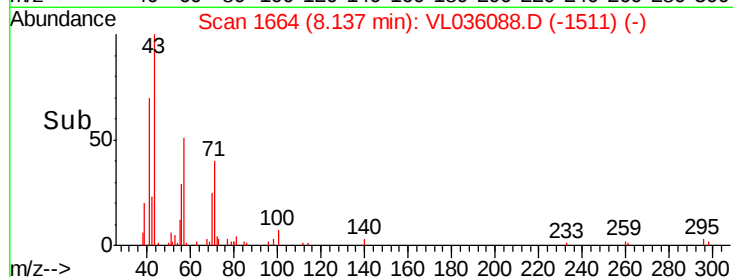
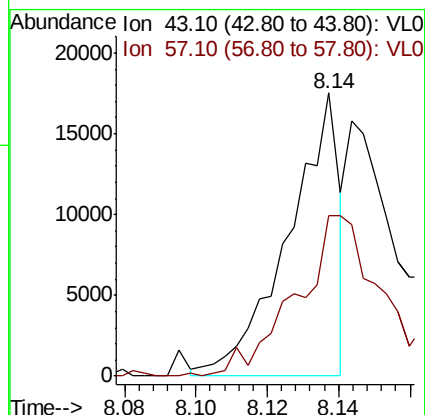
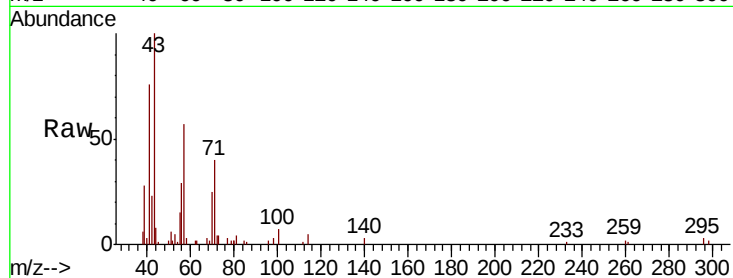




#10
Heptane
Concen: 0.093 ppbv
RT: 8.14 min Scan# 1664
Delta R.T. -0.01 min
Lab File: VL036088.D
Acq: 8 Dec 2020 6:22

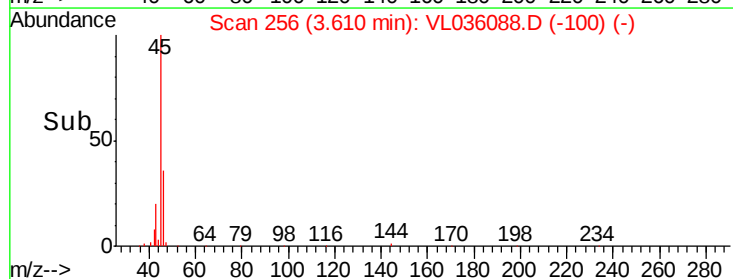
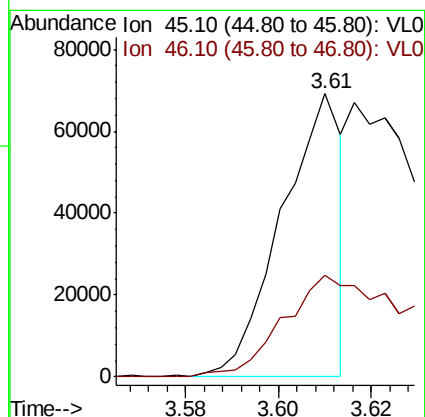
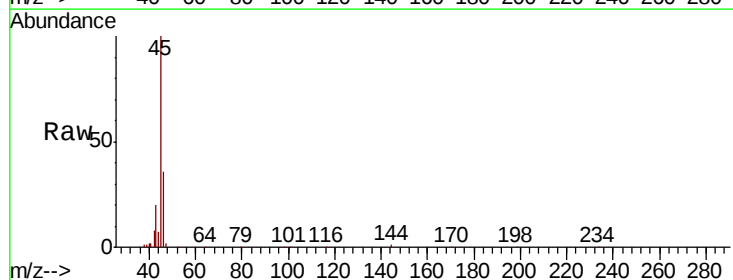
Instrument :
MSVOA_L
ClientSampleId :
IA-2BDL

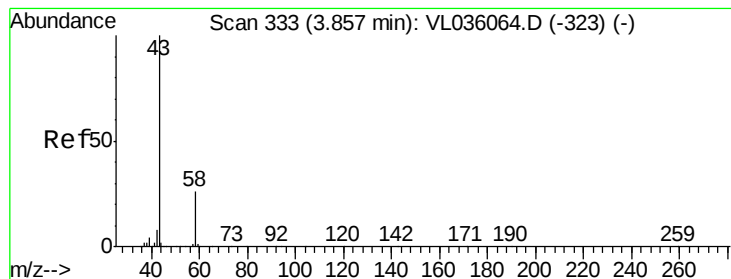
Tot Ion: 43 Resp: 17210
Ion Ratio Lower Upper
43 100
57 0.0 37.9 56.9#



#13
Ethanol
Concen: 6.207 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.00 min
Lab File: VL036088.D
Acq: 8 Dec 2020 6:22

Tgt Ion: 45 Resp: 62287
Ion Ratio Lower Upper
45 100
46 119.4 19.0 75.8#





#15

Acetone

Concen: 1.469 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.01 min

Lab File: VL036088.D

Acq: 8 Dec 2020 6:22

Instrument :

MSVOA_L

ClientSampleId :

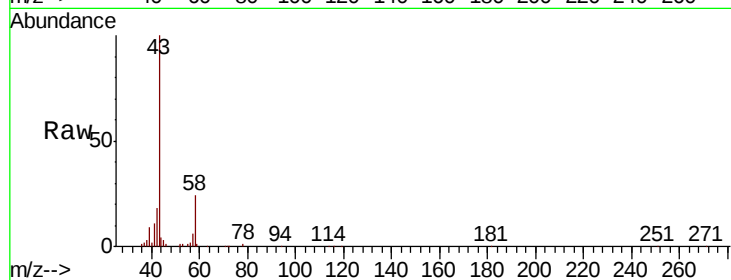
IA-2BDL

Tot Ion: 43 Resp: 224926

Ion Ratio Lower Upper

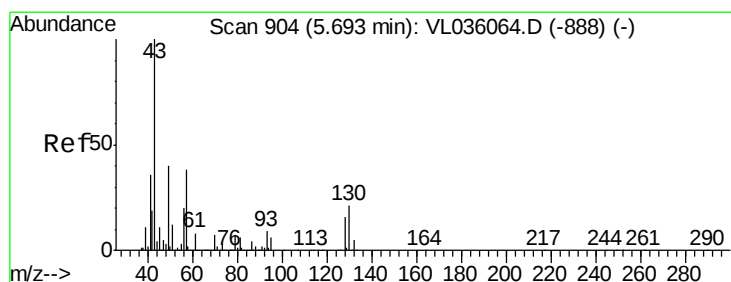
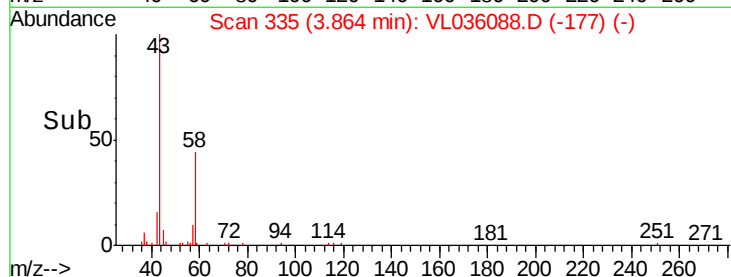
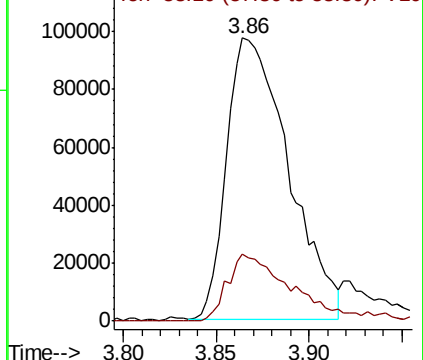
43 100

58 26.0 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#25

Ethyl Acetate

Concen: 0.279 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL036088.D

Acq: 8 Dec 2020 6:22

Tgt Ion: 43 Resp: 85469

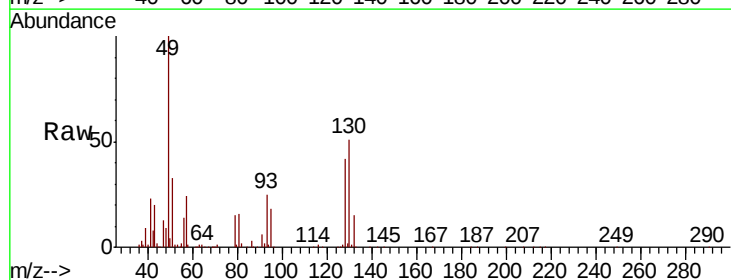
Ion Ratio Lower Upper

43 100

45 3.6 8.2 12.4#

61 0.7 7.4 11.2#

70 2.5 5.4 8.0#

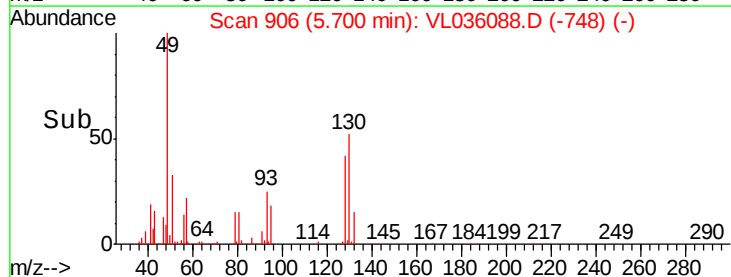
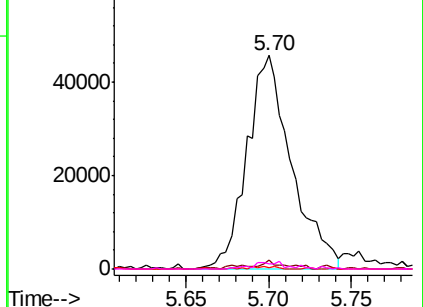


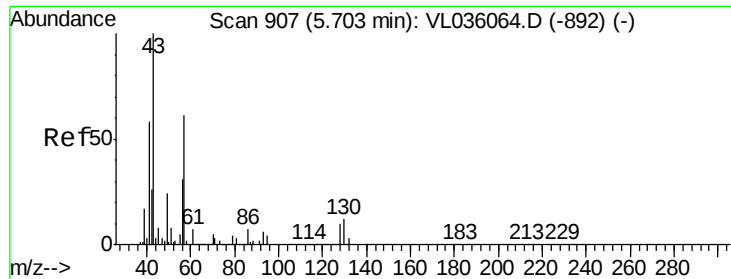
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

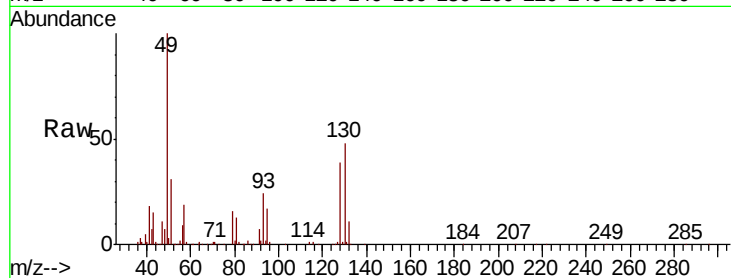




#26
Hexane
Concen: 0.749 ppbv
RT: 5.70 min Scan# 905
Delta R.T. -0.01 min
Lab File: VL036088.D
Acq: 8 Dec 2020 6:22

Instrument :
MSVOA_L
ClientSampleId :
IA-2BDL

Tot Ion	57	Resp	103013
Ion	Ratio	Lower	Upper
57	100		
41	103.3	82.9	124.3
43	87.3	199.9	299.9#
56	56.0	43.1	64.7



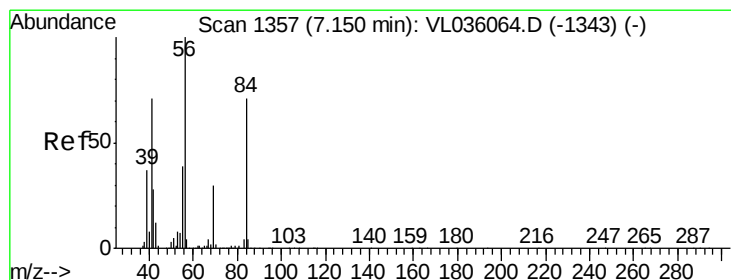
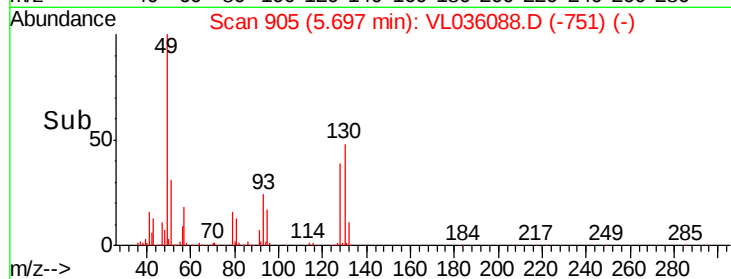
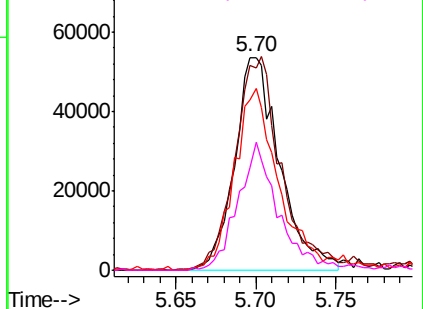
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

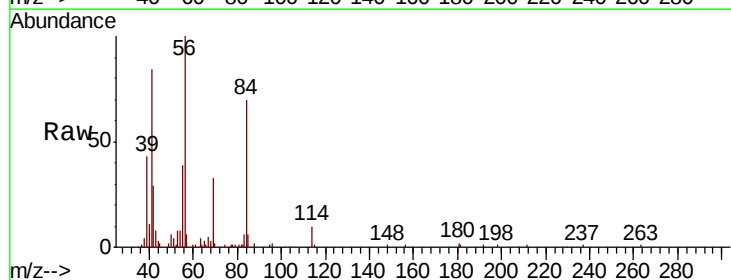
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#30
Cyclohexane
Concen: 0.339 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL036088.D
Acq: 8 Dec 2020 6:22

Tgt Ion	84	Resp	34267
Ion	Ratio	Lower	Upper
84	100		
56	262.3	128.0	192.0#
41	183.4	81.3	121.9#

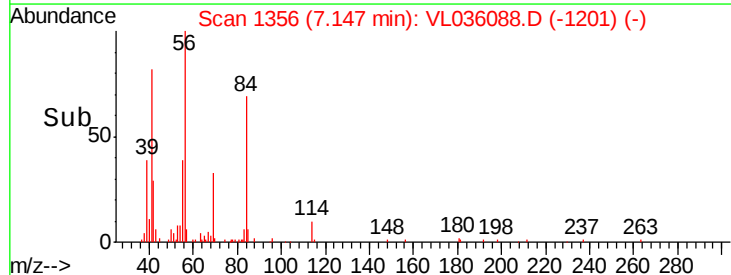
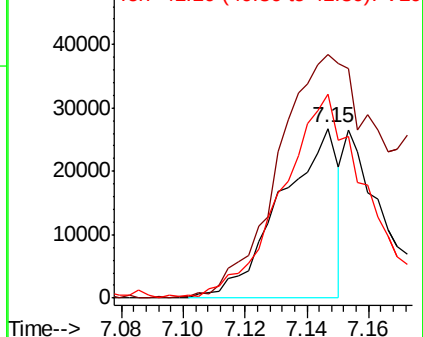


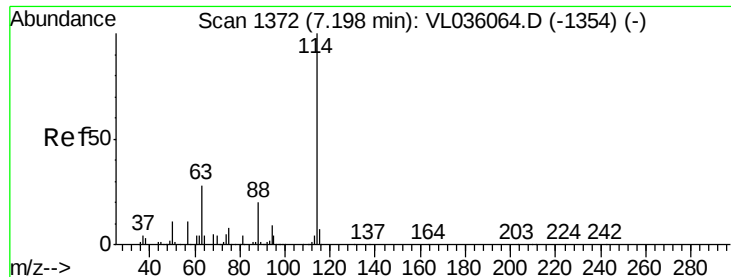
Abundance

Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

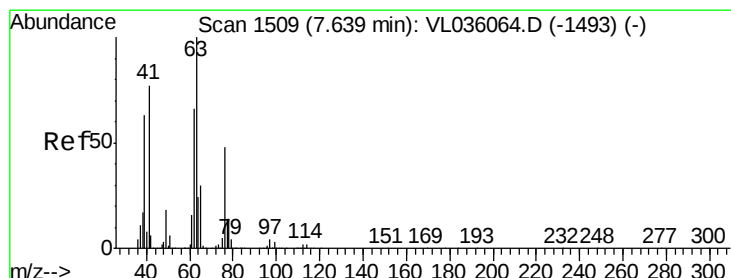
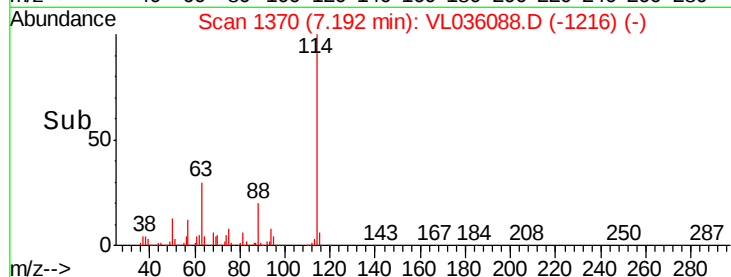
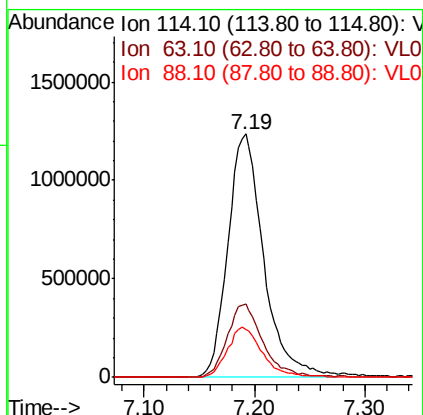
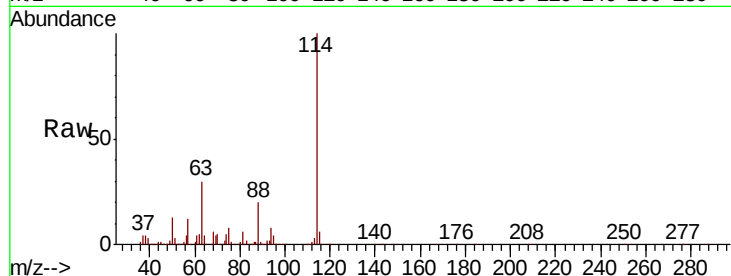




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.01 min
 Lab File: VL036088.D
 Acq: 8 Dec 2020 6:22

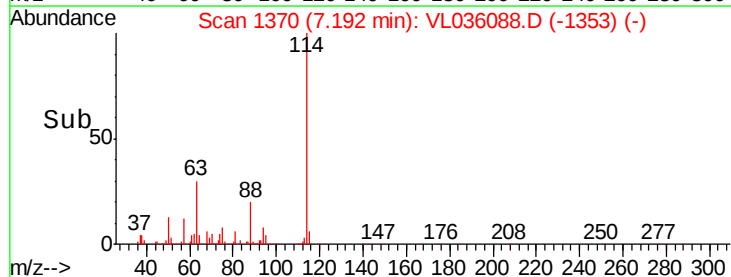
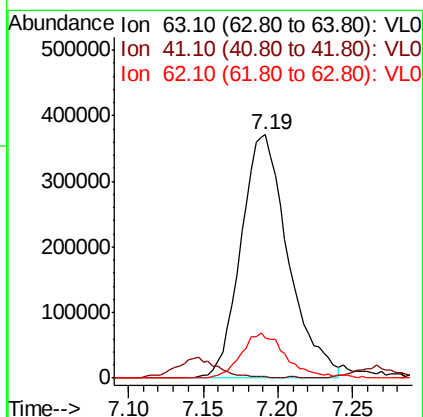
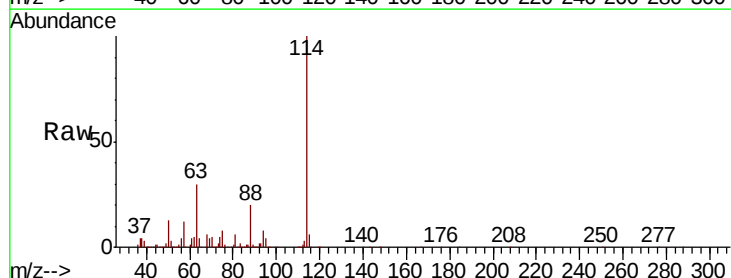
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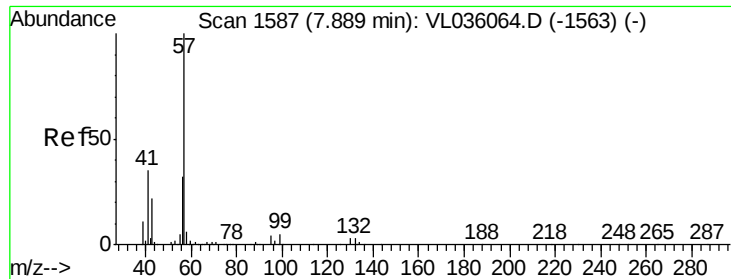
Tot Ion:114 Resp: 2779019
 Ion Ratio Lower Upper
 114 100
 63 30.5 23.6 35.4
 88 20.4 15.8 23.6



#39
 1,2-Dichloropropane
 Concen: 8.751 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.45 min
 Lab File: VL036088.D
 Acq: 8 Dec 2020 6:22

Tgt Ion: 63 Resp: 813893
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.9 92.9#
 62 16.5 52.5 78.7#

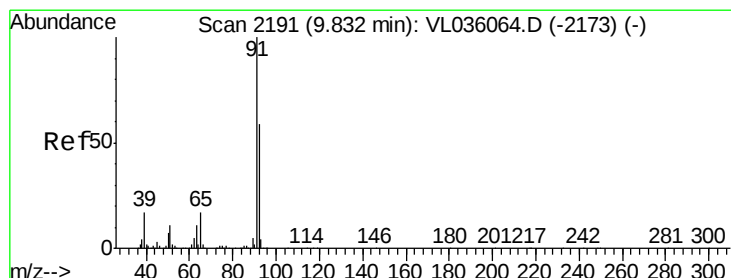
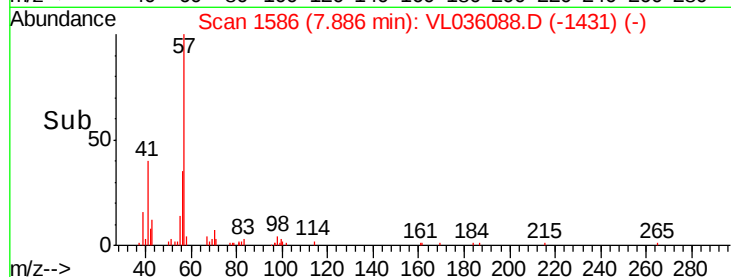
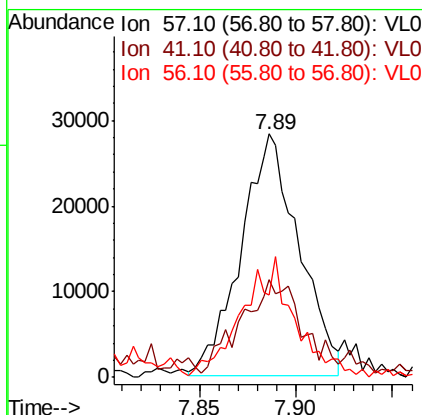
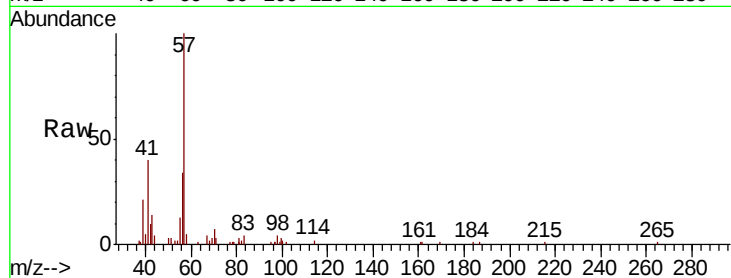




#44
 2,2,4-Trimethylpentane
 Concen: 0.139 ppbv
 RT: 7.89 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: VL036088.D
 Acq: 8 Dec 2020 6:22

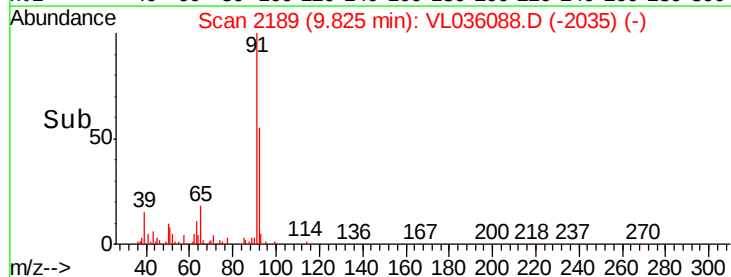
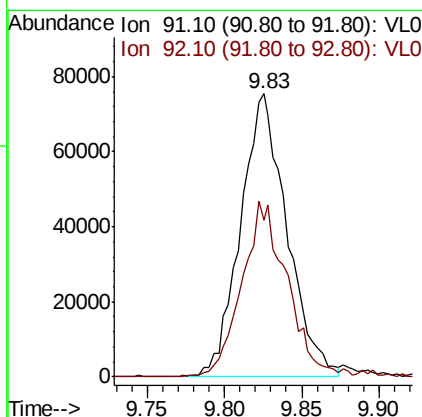
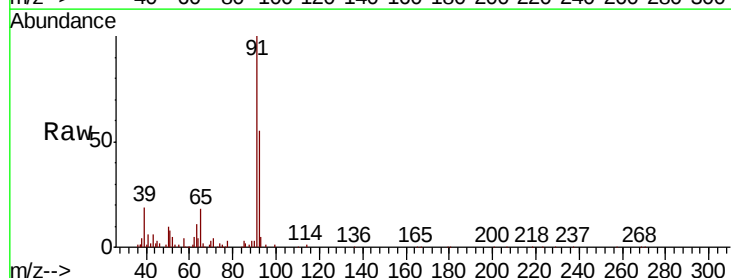
Instrument :
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 IA-2BDL

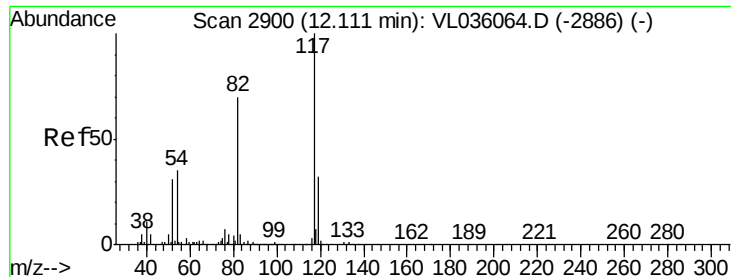
Tot Ion	57	Resp	59127
Ion Ratio	Lower	Upper	
57	100		
41	42.3	28.9	43.3
56	46.5	25.3	37.9#



#53
 Toluene
 Concen: 0.595 ppbv
 RT: 9.83 min Scan# 2189
 Delta R.T. -0.01 min
 Lab File: VL036088.D
 Acq: 8 Dec 2020 6:22

Tgt Ion	91	Resp	157266
Ion Ratio	Lower	Upper	
91	100		
92	61.7	48.2	72.2

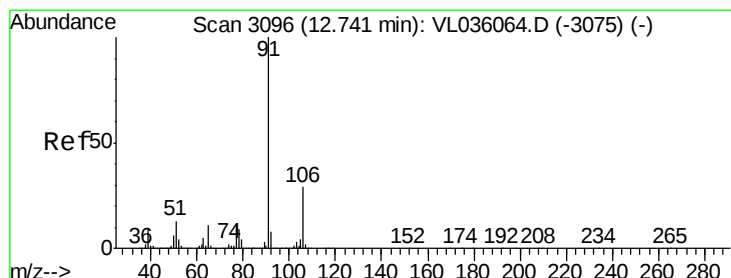
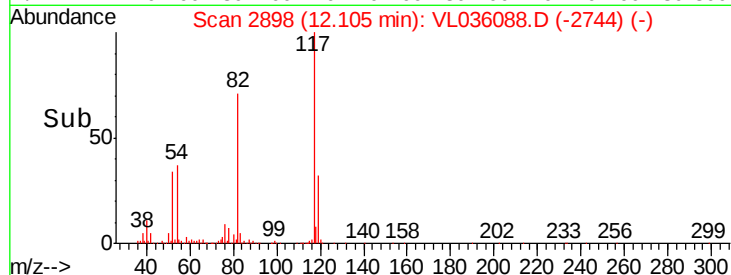
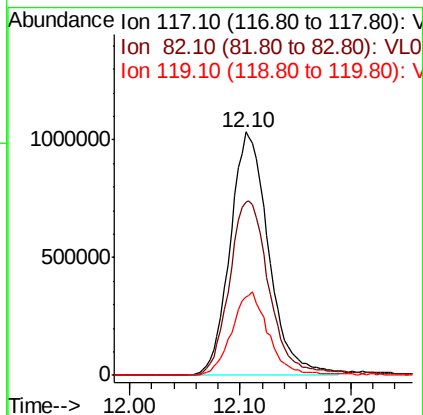
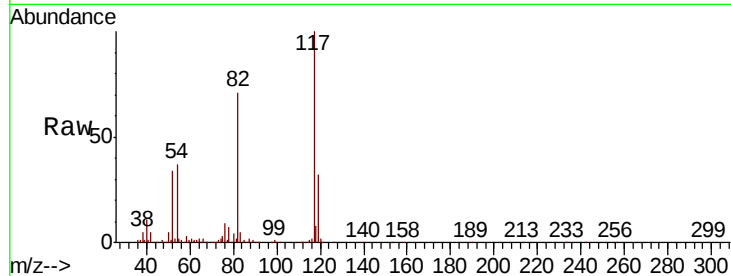




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL036088.D
Acq: 8 Dec 2020 6:22

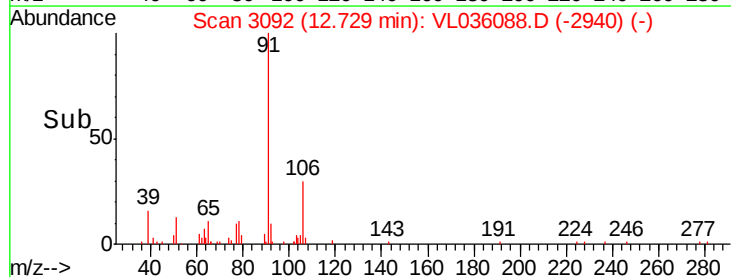
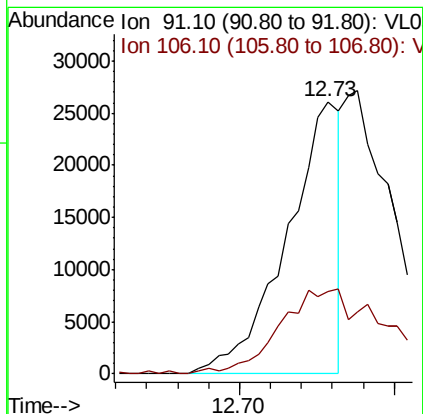
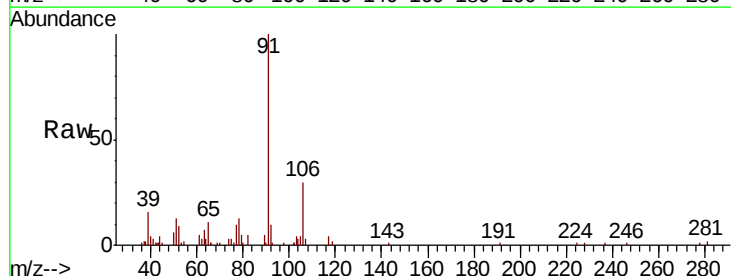
Instrument :
MSVOA_L
ClientSampleId :
IA-2BDL

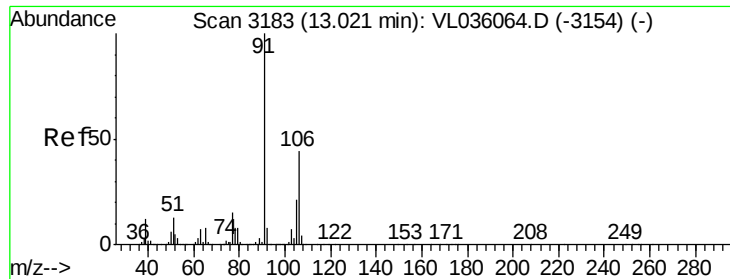
Tot Ion:117 Resp: 2500511
Ion Ratio Lower Upper
117 100
82 76.6 0.0 0.0#
119 32.8 0.0 0.0#



#58
Ethyl Benzene
Concen: 0.091 ppbv
RT: 12.73 min Scan# 3092
Delta R.T. -0.01 min
Lab File: VL036088.D
Acq: 8 Dec 2020 6:22

Tgt Ion: 91 Resp: 31203
Ion Ratio Lower Upper
91 100
106 30.4 23.0 34.4

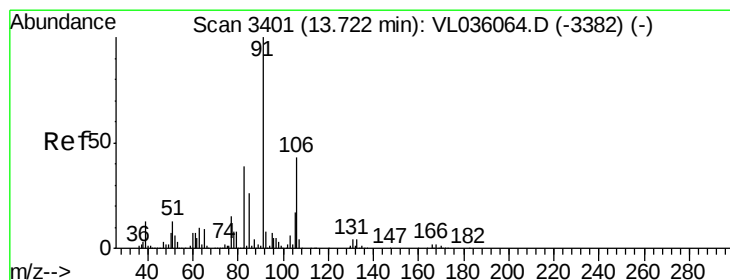
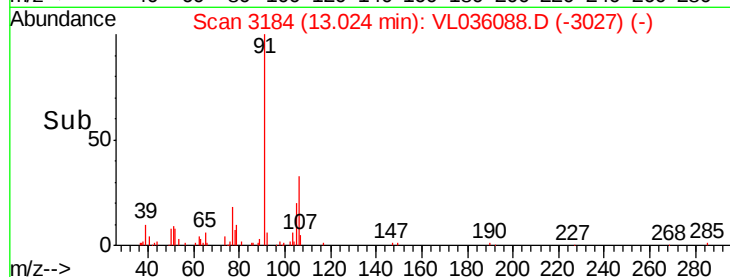
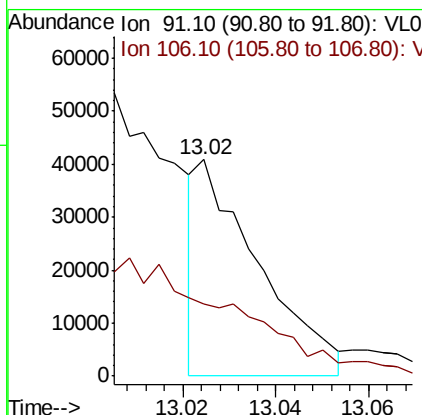
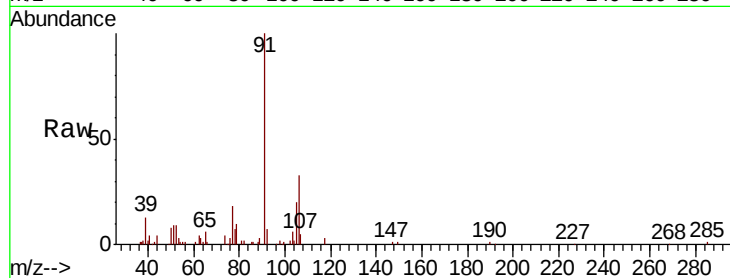




#59
m/p-Xylene
Concen: 0.130 ppbv
RT: 13.02 min Scan# 3184
Delta R.T. 0.00 min
Lab File: VL036088.D
Acq: 8 Dec 2020 6:22

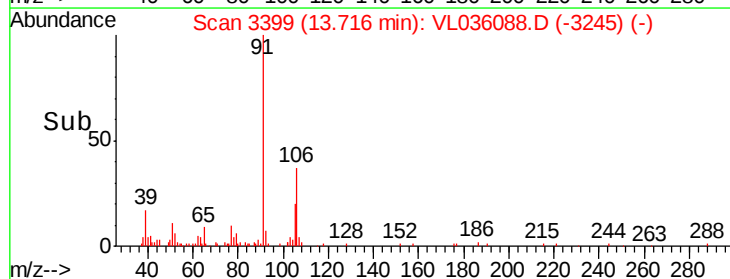
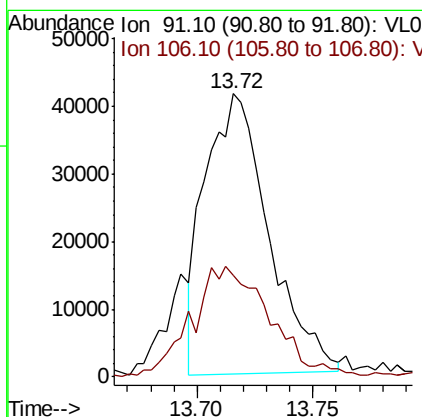
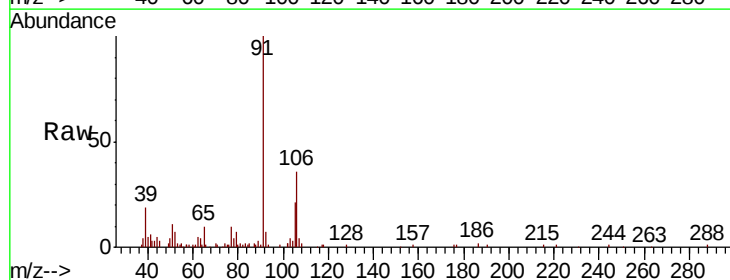
Instrument :
MSVOA_L
ClientSampled :
IA-2BDL

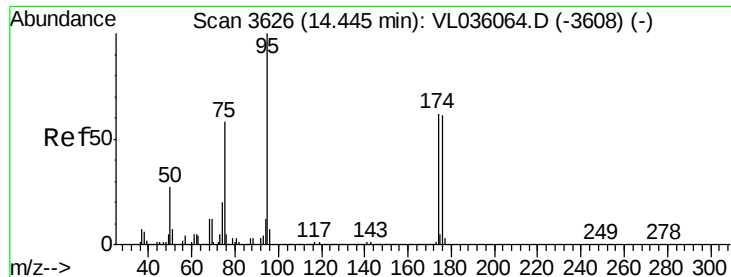
Tot Ion: 91 Resp: 37397
Ion Ratio Lower Upper
91 100
106 0.0 33.6 50.4#



#60
o-Xylene
Concen: 0.289 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL036088.D
Acq: 8 Dec 2020 6:22

Tgt Ion: 91 Resp: 78586
Ion Ratio Lower Upper
91 100
106 48.9 21.6 64.6





#68

1-Bromo-4-Fluorobenzene

Concen: 10.233 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.01 min

Lab File: VL036088.D

Acq: 8 Dec 2020 6:22

Instrument :

MSVOA_L

ClientSampled :

IA-2BDL

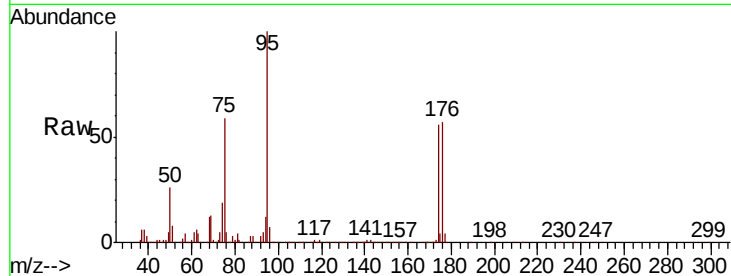
Tot Ion: 95 Resp: 2031716

Ion Ratio Lower Upper

95 100

174 61.2 50.7 76.1

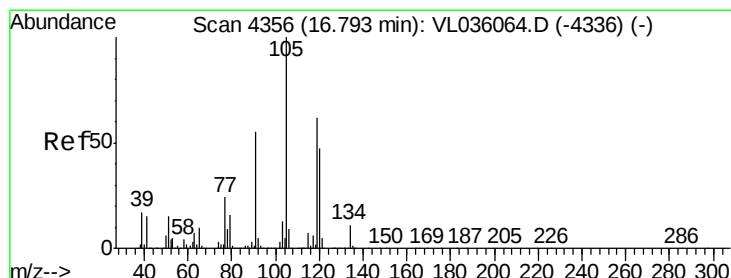
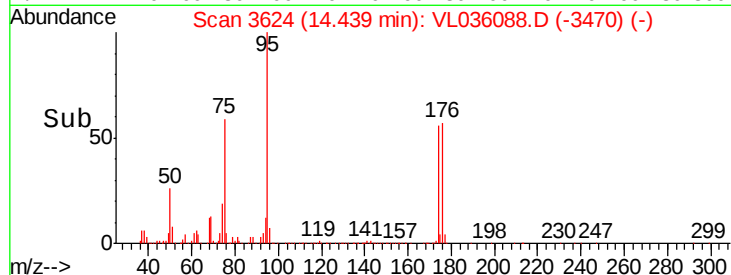
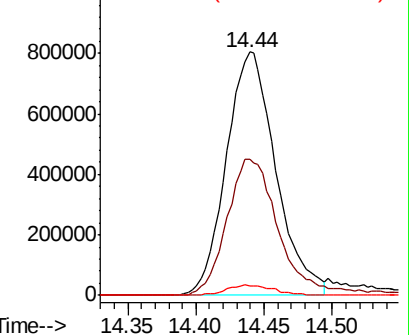
175 4.4 4.0 6.0



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



#74

1,2,4-Trimethylbenzene

Concen: 0.084 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. -0.00 min

Lab File: VL036088.D

Acq: 8 Dec 2020 6:22

Tgt Ion: 105 Resp: 23731

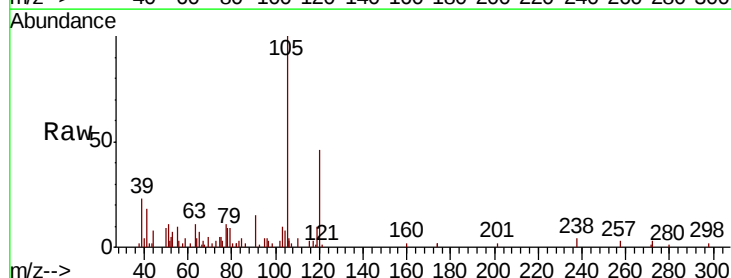
Ion Ratio Lower Upper

105 100

120 47.6 37.4 56.0

91 10.7 45.6 68.4#

77 3.6 19.4 29.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

