

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121020\
 Data File : VL036156.D
 Acq On : 11 Dec 2020 9:17
 Operator : SY/AP
 Sample : L4930-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OFFSITE-SG-2

Quant Time: Dec 11 10:53:45 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	5.65	49	1302739	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.16	114	2515473	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.07	117	2222882	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1981287	11.23	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.30%

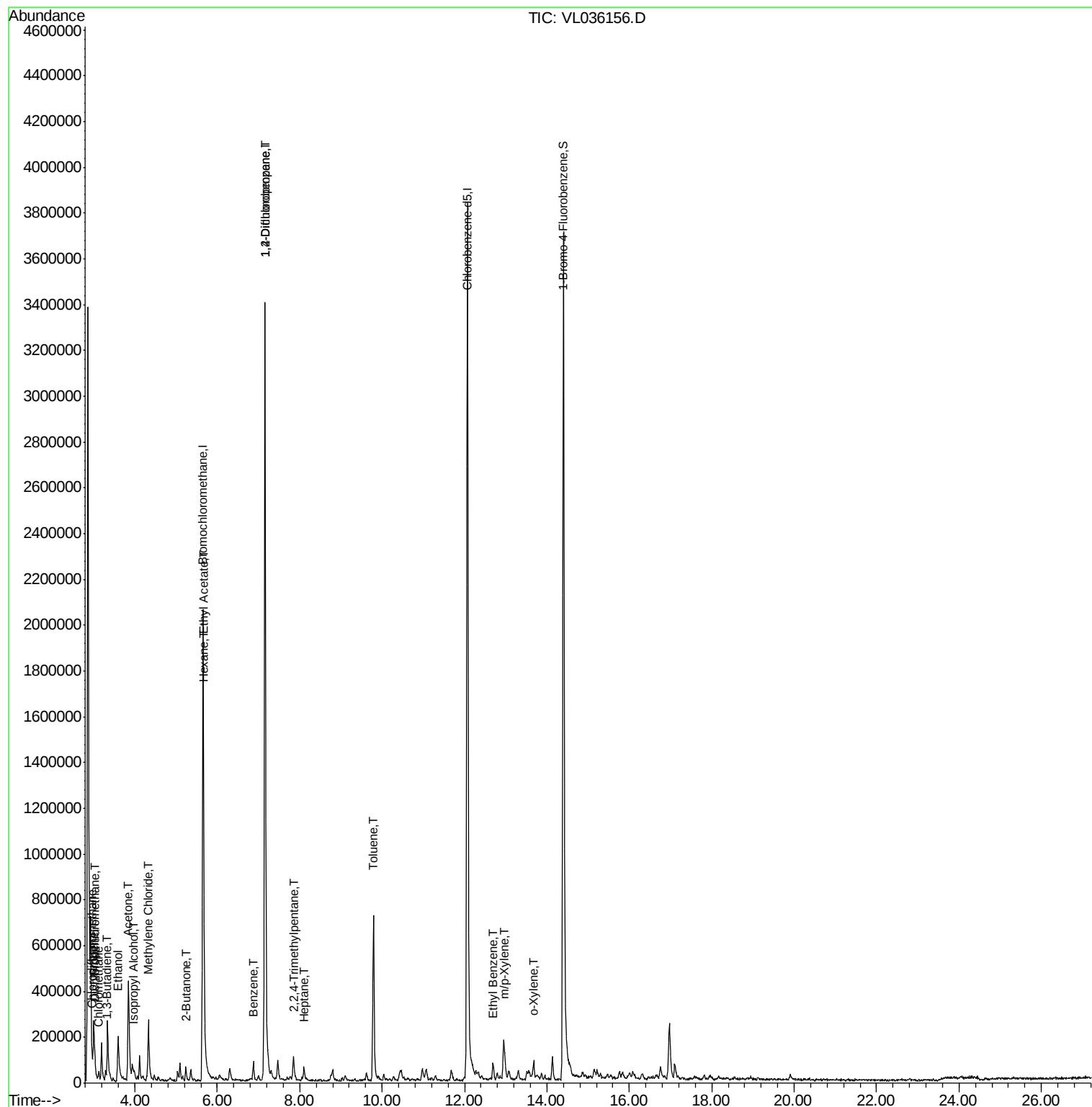
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.03	85	43024	0.283	ppbv	94
3) Chlorodifluoromethane	2.97	51	58049	0.391	ppbv	97
4) Chloromethane	3.12	50	27398	0.375	ppbv	99
9) Propene	3.00	41	74216	0.997	ppbv	85
10) Heptane	8.10	43	7635	0.040	ppbv #	29
13) Ethanol	3.59	45	181383	17.671	ppbv	79
15) Acetone	3.84	43	610212	3.897	ppbv	94
16) 1,3-Butadiene	3.31	39	3122	0.040	ppbv #	1
19) Isopropyl Alcohol	3.96	45	19422	0.203	ppbv #	100
20) Methylene Chloride	4.33	84	85444	1.332	ppbv	93
25) Ethyl Acetate	5.67	43	65141	0.208	ppbv #	95
26) Hexane	5.67	57	101296	0.720	ppbv #	53
34) 2-Butanone	5.23	43	29207	0.175	ppbv #	56
36) Benzene	6.87	78	31006	0.145	ppbv #	90
39) 1,2-Dichloropropane	7.15	63	819460	9.734	ppbv #	24
44) 2,2,4-Trimethylpentane	7.84	57	38035	0.099	ppbv #	10
53) Toluene	9.79	91	552493	2.308	ppbv	98
58) Ethyl Benzene	12.70	91	31964	0.105	ppbv	93
59) m/p-Xylene	12.97	91	44214	0.172	ppbv #	34
60) o-Xylene	13.67	91	8589	0.036	ppbv #	33

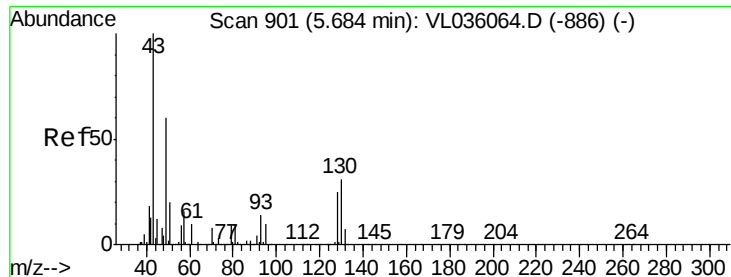
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.65 min Scan# 890

Delta R.T. -0.04 min

Lab File: VL036156.D

Acq: 11 Dec 2020 9:17

Instrument :

MSVOA_X

ClientSampleId :

OFFSITE-SG-2

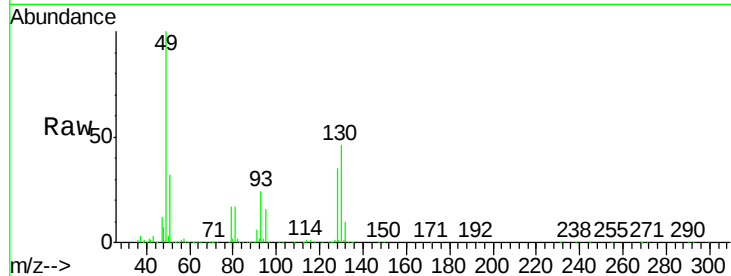
Tgt Ion: 49 Resp: 1302739

Ion Ratio Lower Upper

49 100

128 34.1 21.1 63.1

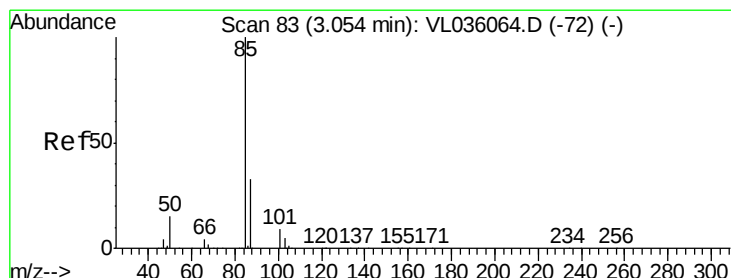
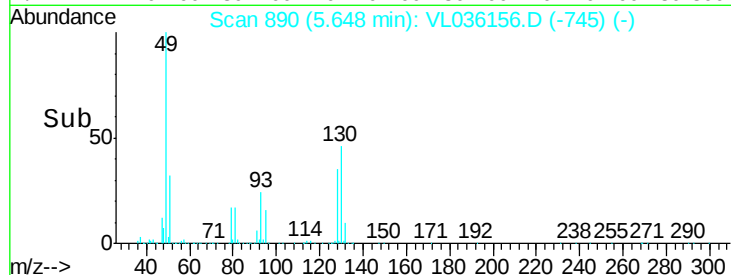
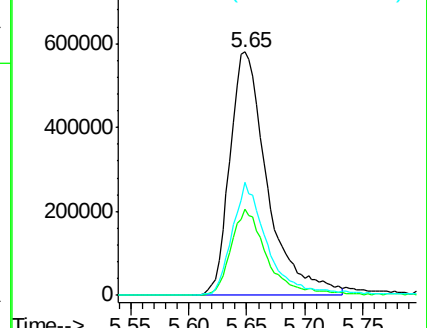
130 44.8 27.1 81.3



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



#2

Dichlorodifluoromethane

Concen: 0.283 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.03 min

Lab File: VL036156.D

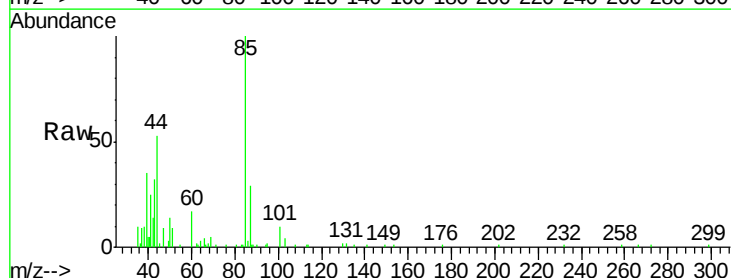
Acq: 11 Dec 2020 9:17

Tgt Ion: 85 Resp: 43024

Ion Ratio Lower Upper

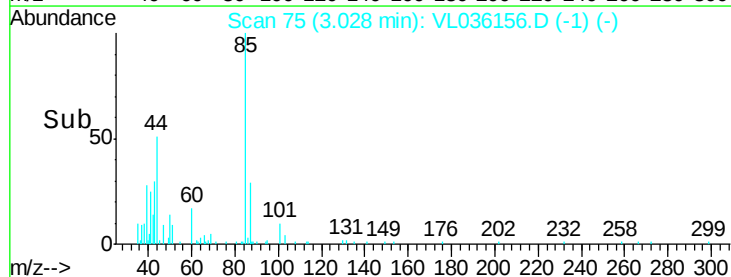
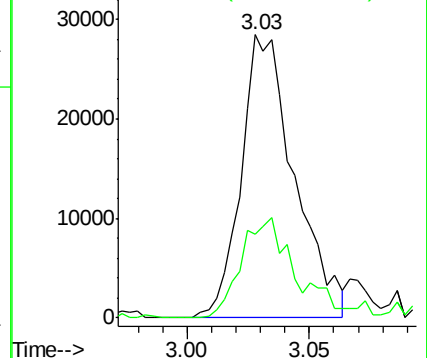
85 100

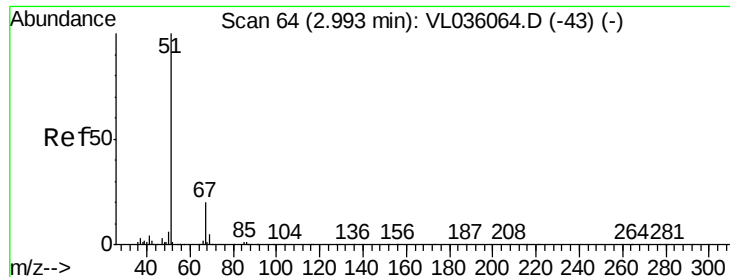
87 29.4 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

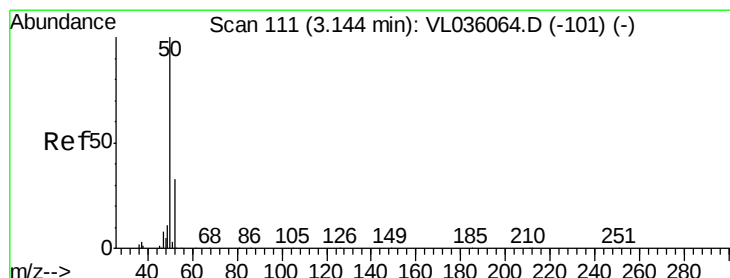
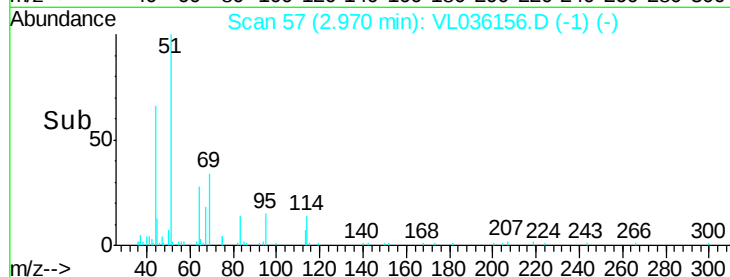
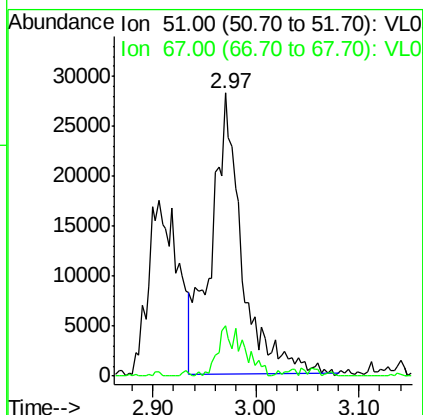
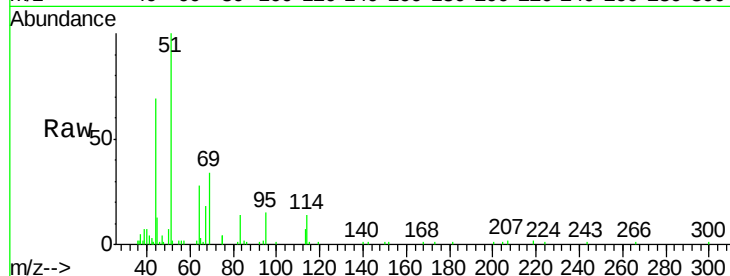




#3
Chlorodifluoromethane
Concen: 0.391 ppbv
RT: 2.97 min Scan# 57
Delta R.T. -0.02 min
Lab File: VL036156.D
Acq: 11 Dec 2020 9:17

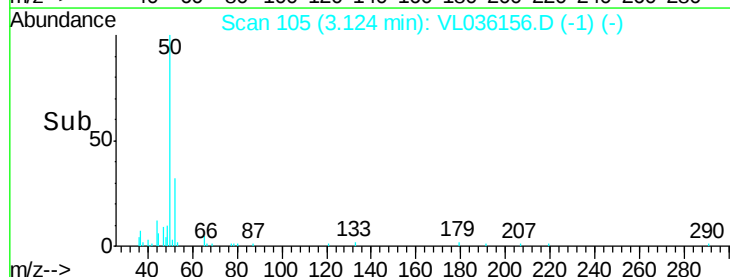
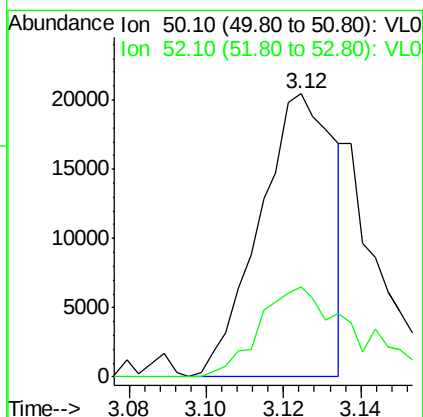
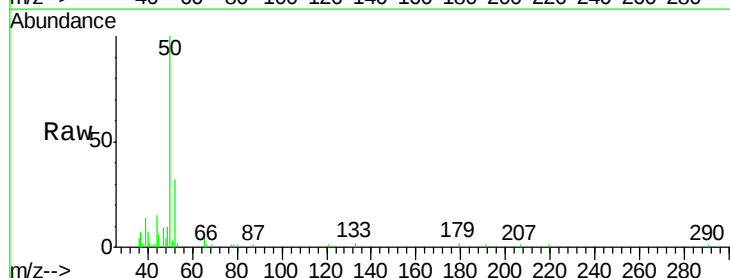
Instrument :
MSVOA_X
ClientSampleId :
OFFSITE-SG-2

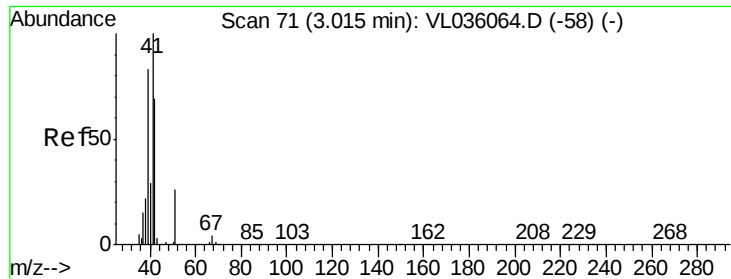
Tgt Ion: 51 Resp: 58049
Ion Ratio Lower Upper
51 100
67 16.5 14.3 21.5



#4
Chloromethane
Concen: 0.375 ppbv
RT: 3.12 min Scan# 105
Delta R.T. -0.02 min
Lab File: VL036156.D
Acq: 11 Dec 2020 9:17

Tgt Ion: 50 Resp: 27398
Ion Ratio Lower Upper
50 100
52 31.9 26.1 39.1





#9

Propene

Concen: 0.997 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL036156.D

Acq: 11 Dec 2020 9:17

Instrument :

MSVOA_X

ClientSampleId :

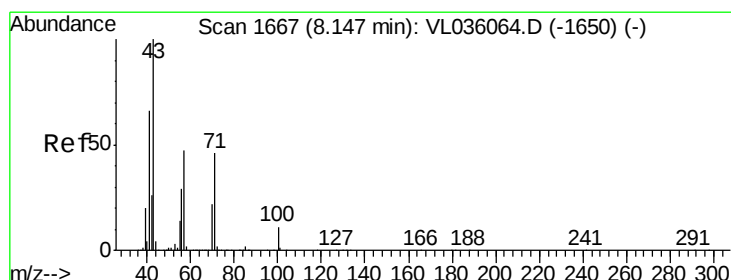
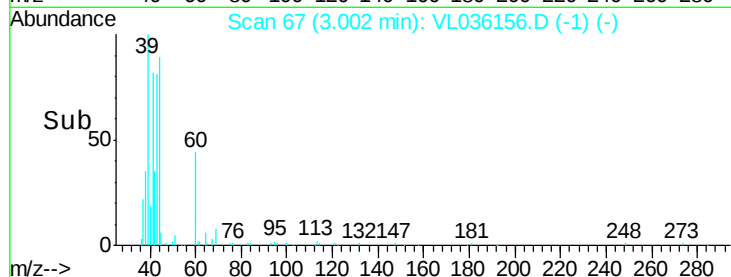
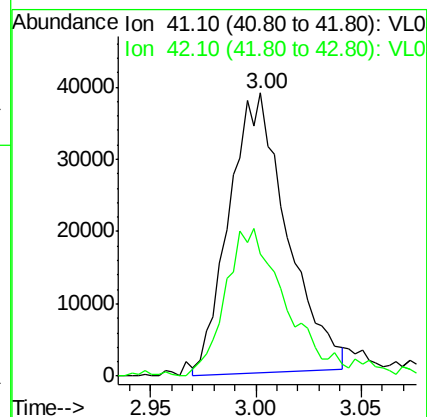
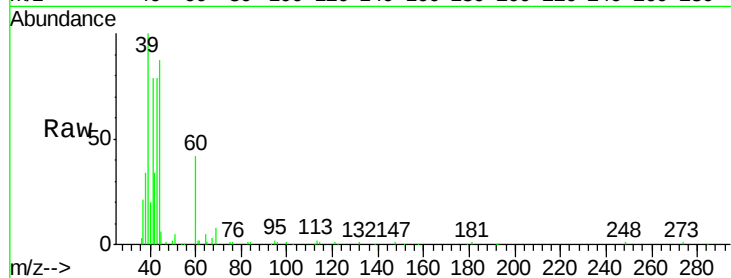
OFFSITE-SG-2

Tgt Ion: 41 Resp: 74216

Ion Ratio Lower Upper

41 100

42 58.8 57.0 85.6



#10

Heptane

Concen: 0.040 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. -0.05 min

Lab File: VL036156.D

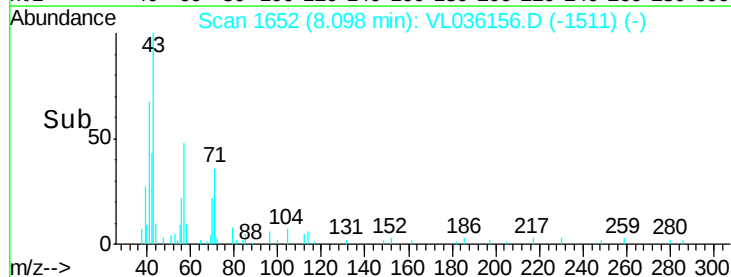
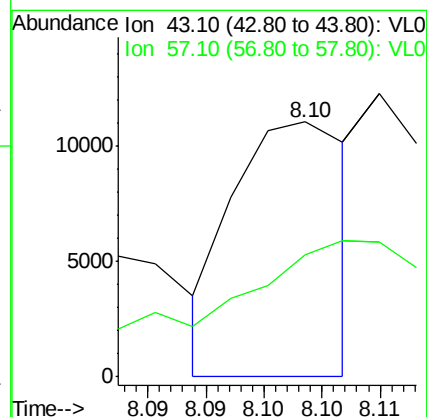
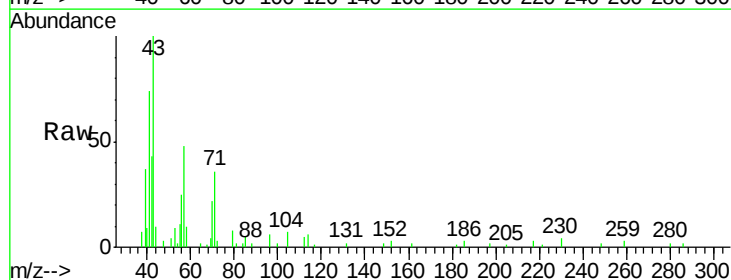
Acq: 11 Dec 2020 9:17

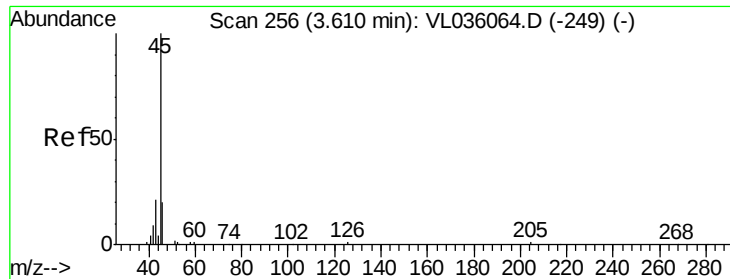
Tgt Ion: 43 Resp: 7635

Ion Ratio Lower Upper

43 100

57 0.0 37.9 56.9#





#13

Ethanol

Concen: 17.671 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.02 min

Lab File: VL036156.D

Acq: 11 Dec 2020 9:17

Instrument :

MSVOA_X

ClientSampleId :

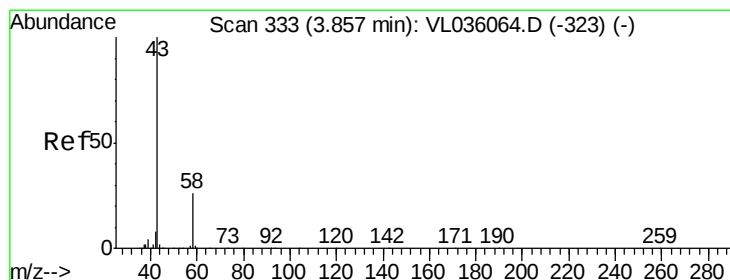
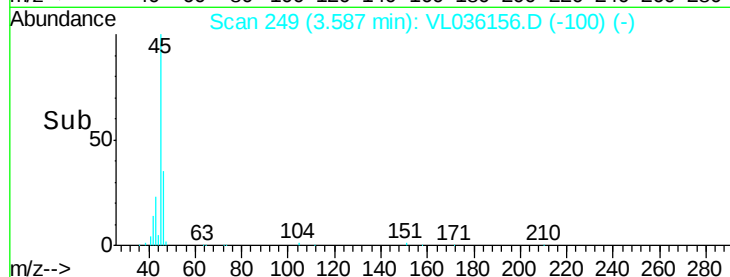
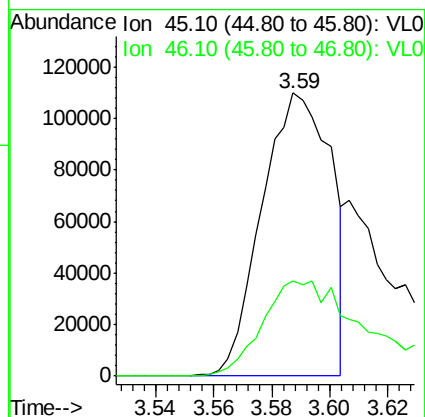
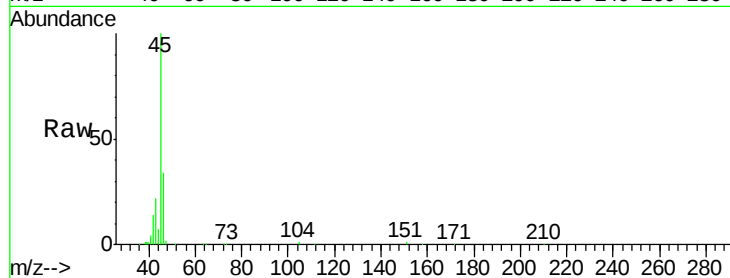
OFFSITE-SG-2

Tgt Ion: 45 Resp: 181383

Ion Ratio Lower Upper

45 100

46 61.3 19.0 75.8



#15

Acetone

Concen: 3.897 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL036156.D

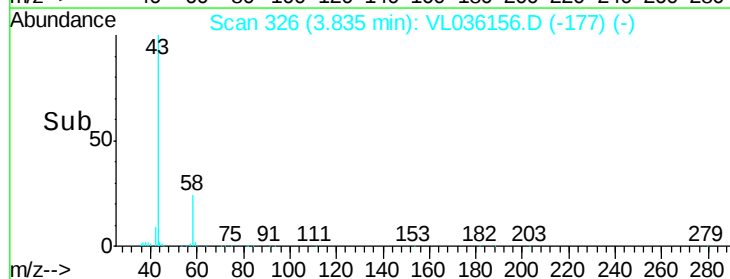
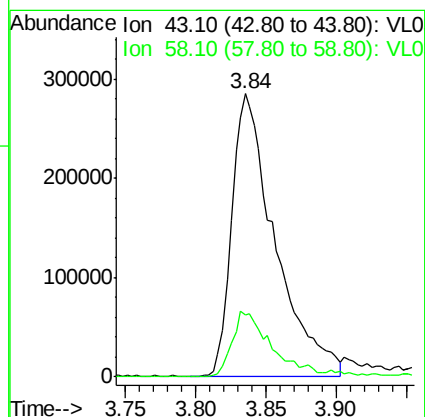
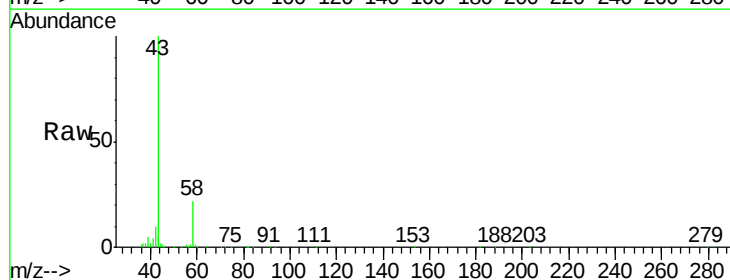
Acq: 11 Dec 2020 9:17

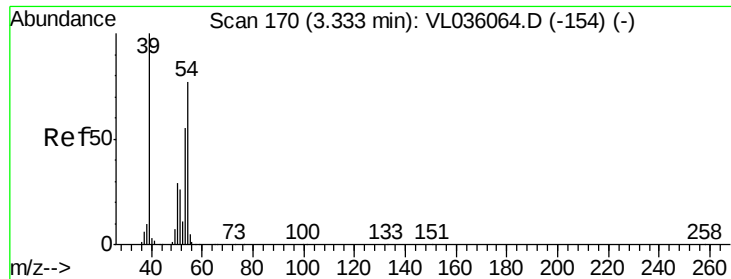
Tgt Ion: 43 Resp: 610212

Ion Ratio Lower Upper

43 100

58 23.1 20.9 31.3





#16

1,3-Butadiene

Concen: 0.040 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.02 min

Lab File: VL036156.D

Acq: 11 Dec 2020 9:17

Instrument :

MSVOA_X

ClientSampleId :

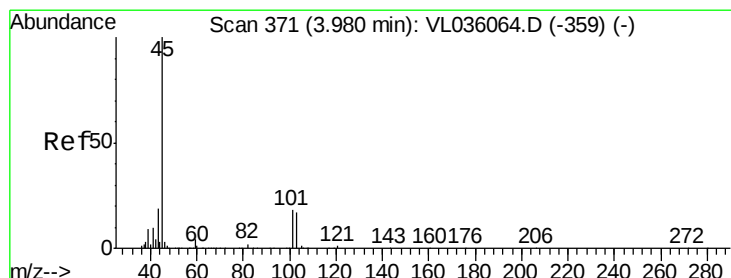
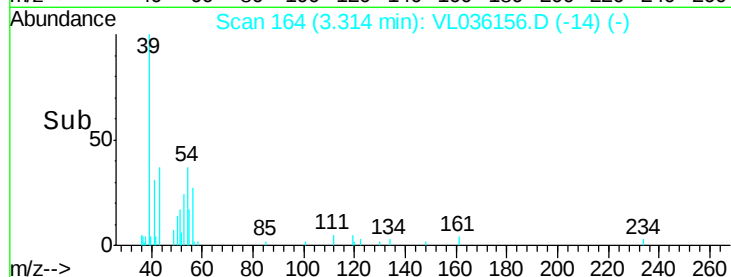
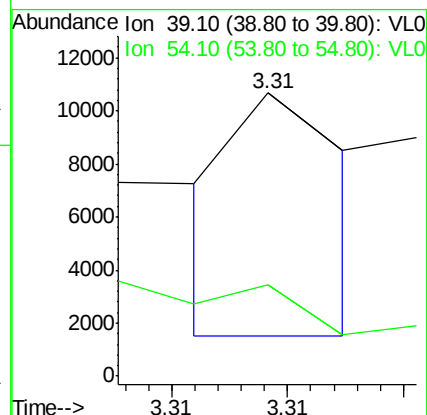
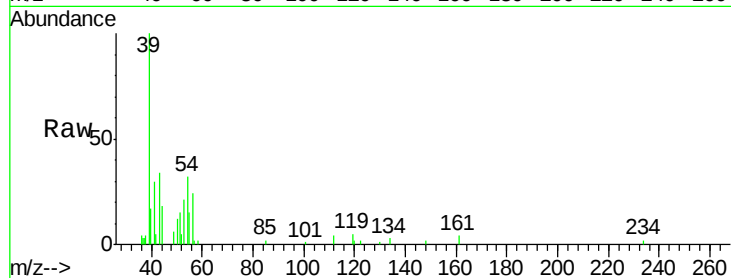
OFFSITE-SG-2

Tgt Ion: 39 Resp: 3122

Ion Ratio Lower Upper

39 100

54 227.5 62.1 93.1#



#19

Isopropyl Alcohol

Concen: 0.203 ppbv

RT: 3.96 min Scan# 365

Delta R.T. -0.02 min

Lab File: VL036156.D

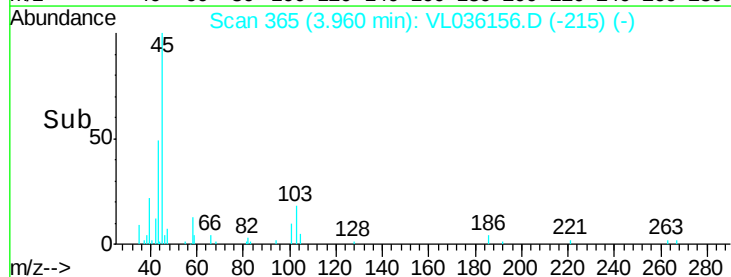
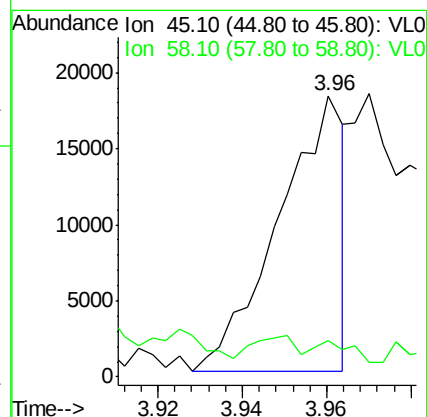
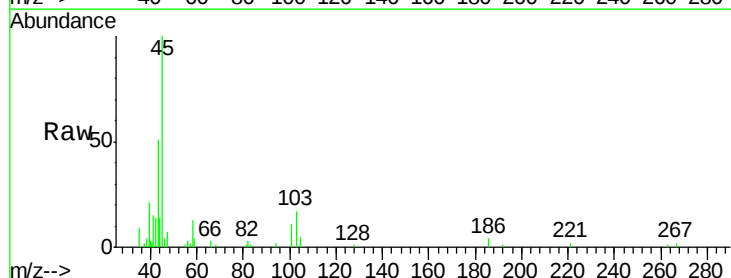
Acq: 11 Dec 2020 9:17

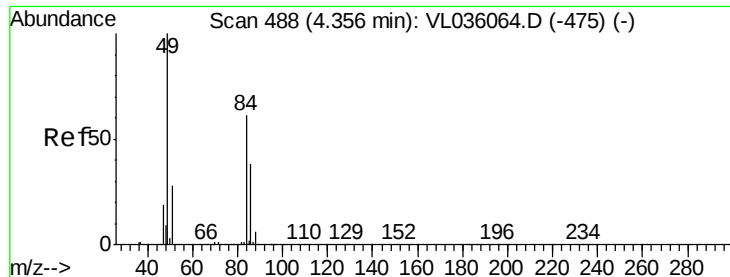
Tgt Ion: 45 Resp: 19422

Ion Ratio Lower Upper

45 100

58 31.0 0.0 0.0#

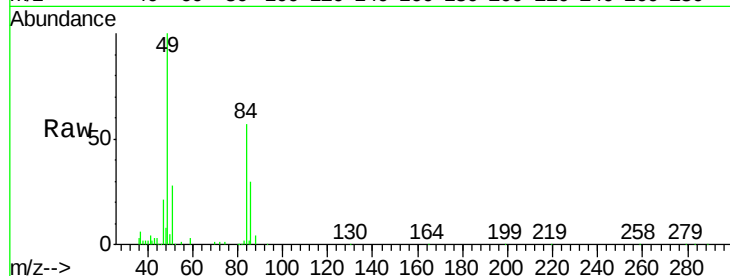




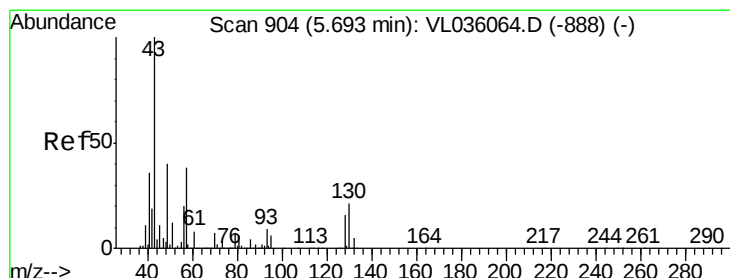
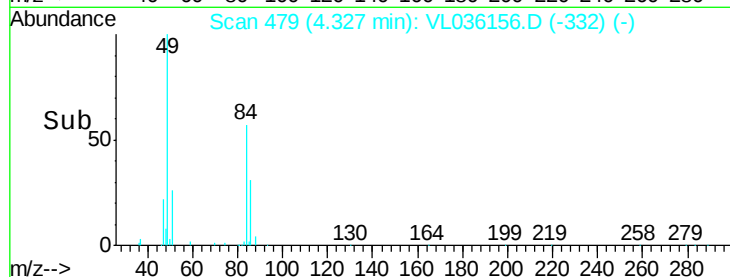
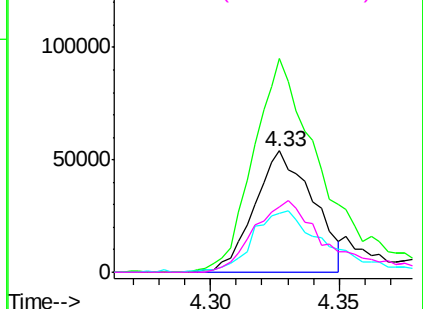
#20
Methylene Chloride
Concen: 1.332 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.03 min
Lab File: VL036156.D
Acq: 11 Dec 2020 9:17

Instrument :
MSVOA_X
ClientSampleId :
OFFSITE-SG-2

Tgt Ion:	84	Resp:	85444
Ion	Ratio	Lower	Upper
84	100		
49	176.4	133.0	199.4
51	48.3	38.9	58.3
86	53.8	48.8	73.2

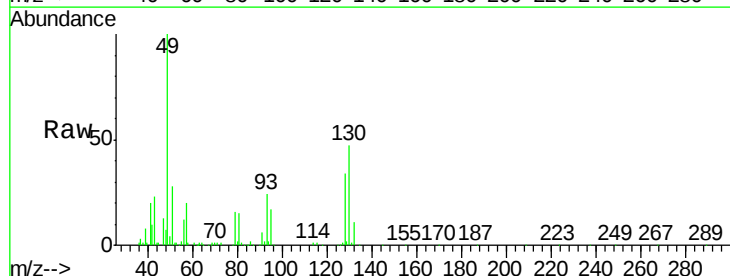


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

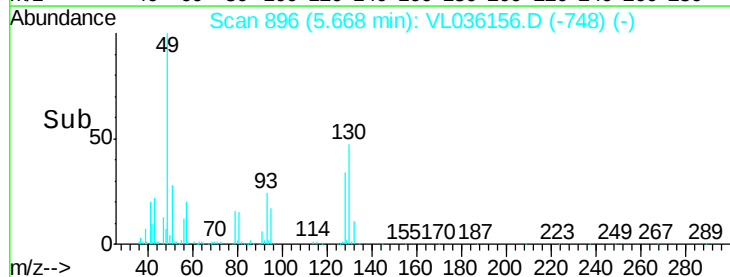
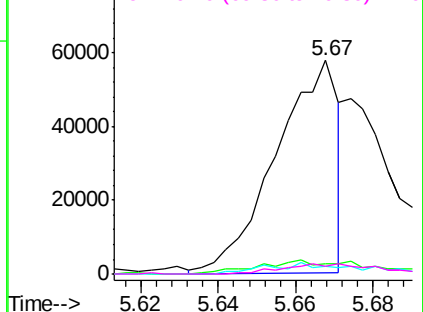


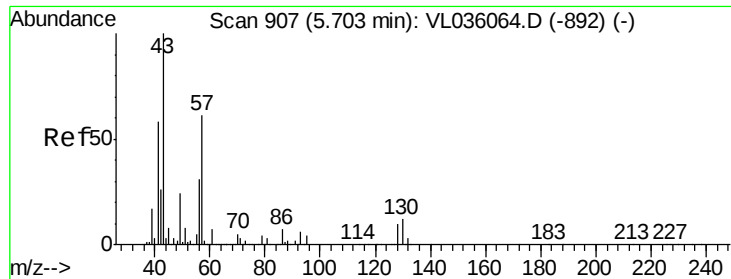
#25
Ethyl Acetate
Concen: 0.208 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.03 min
Lab File: VL036156.D
Acq: 11 Dec 2020 9:17

Tgt Ion:	43	Resp:	65141
Ion	Ratio	Lower	Upper
43	100		
45	12.5	8.2	12.4#
61	8.3	7.4	11.2
70	8.7	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

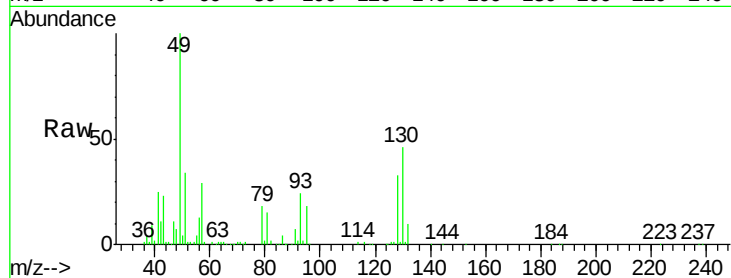




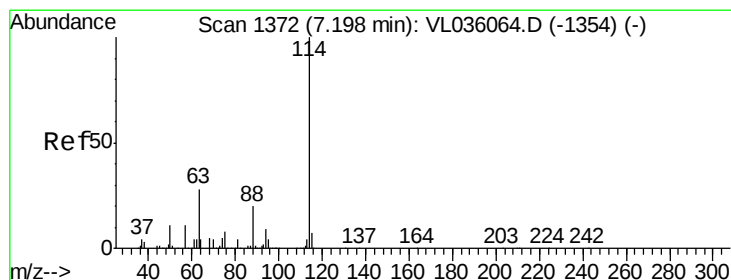
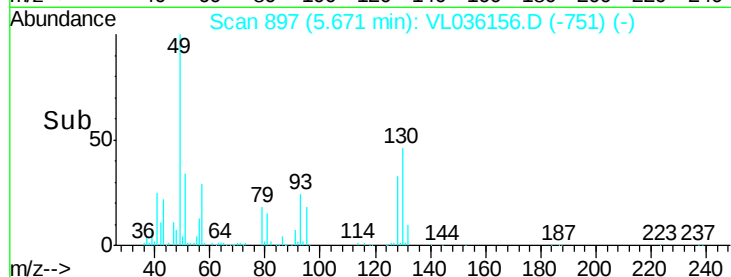
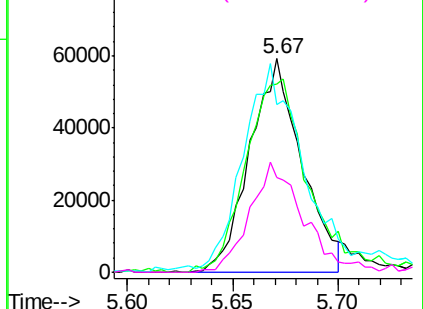
#26
Hexane
Concen: 0.720 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.03 min
Lab File: VL036156.D
Acq: 11 Dec 2020 9:17

Instrument :
MSVOA_X
ClientSampleId :
OFFSITE-SG-2

Tgt Ion: 57 Resp: 101296
Ion Ratio Lower Upper
57 100
41 114.8 82.9 124.3
43 124.3 199.9 299.9#
56 54.2 43.1 64.7

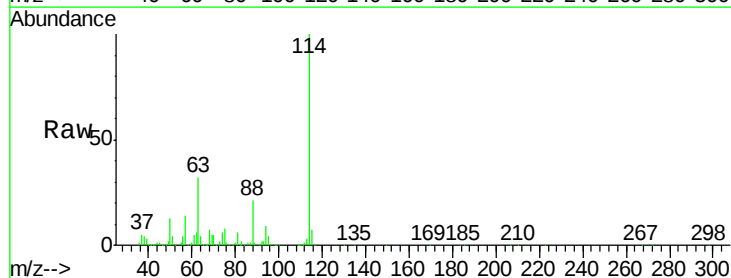


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

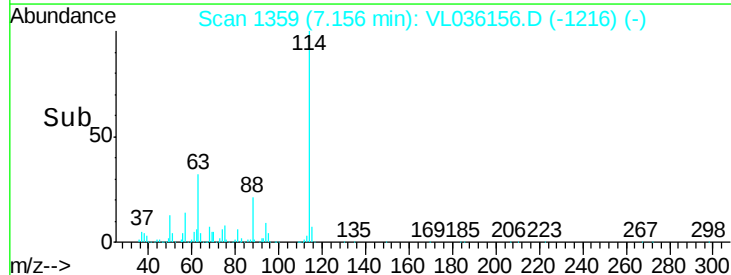
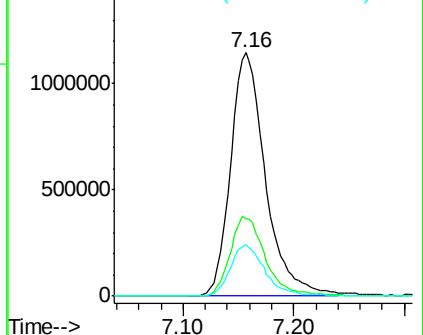


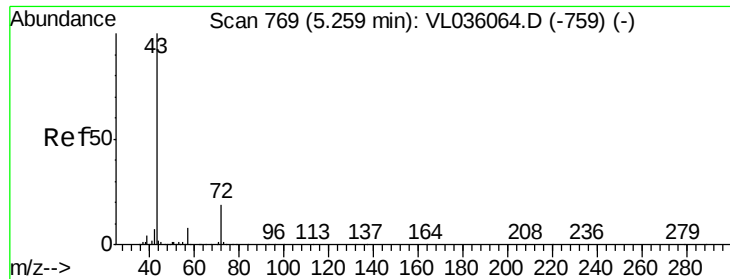
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.04 min
Lab File: VL036156.D
Acq: 11 Dec 2020 9:17

Tgt Ion: 114 Resp: 2515473
Ion Ratio Lower Upper
114 100
63 33.3 23.6 35.4
88 21.2 15.8 23.6



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

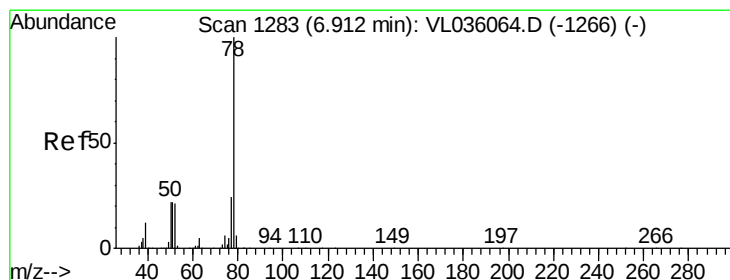
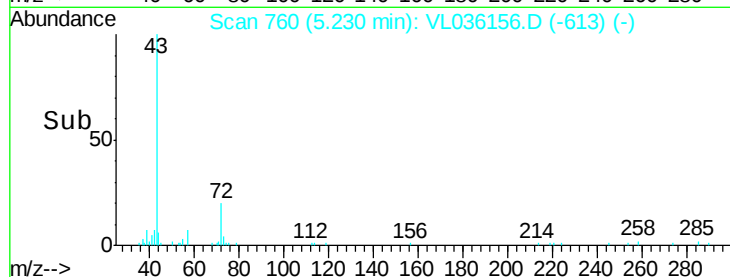
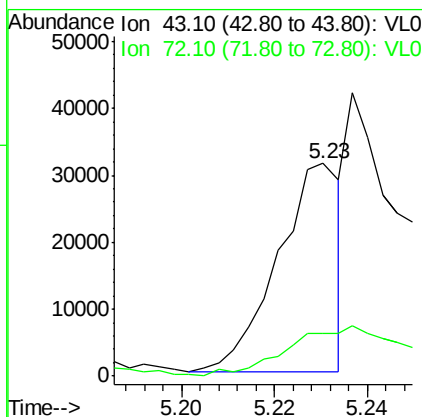
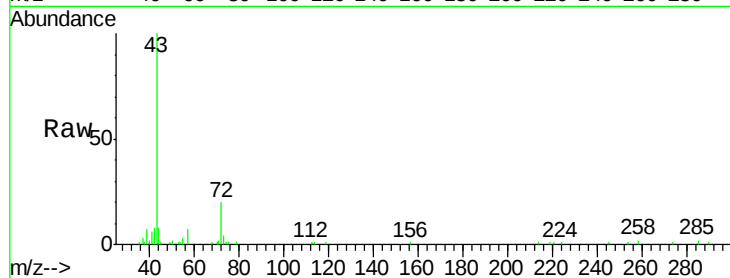




#34
2-Butanone
Concen: 0.175 ppbv
RT: 5.23 min Scan# 760
Delta R.T. -0.03 min
Lab File: VL036156.D
Acq: 11 Dec 2020 9:17

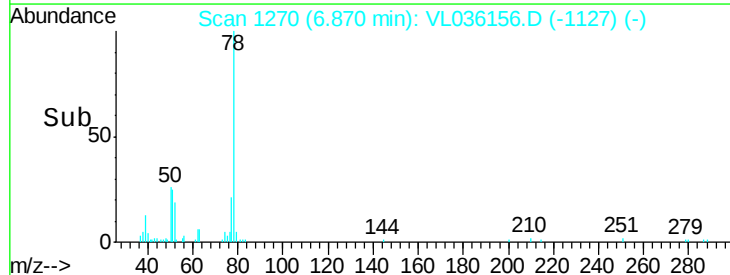
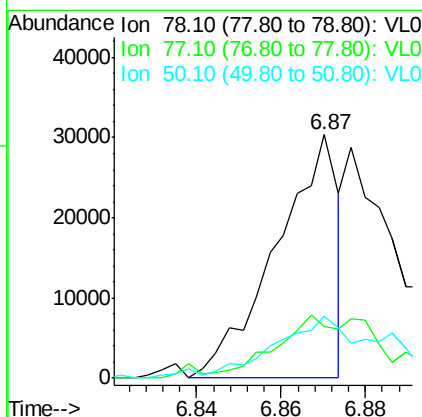
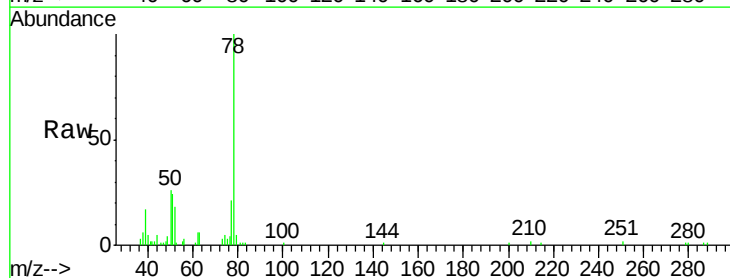
Instrument :
MSVOA_X
ClientSampleId :
OFFSITE-SG-2

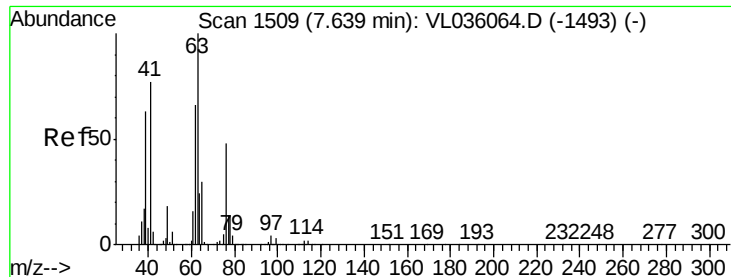
Tgt Ion: 43 Resp: 29207
Ion Ratio Lower Upper
43 100
72 0.0 16.5 24.7#



#36
Benzene
Concen: 0.145 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.04 min
Lab File: VL036156.D
Acq: 11 Dec 2020 9:17

Tgt Ion: 78 Resp: 31006
Ion Ratio Lower Upper
78 100
77 15.2 19.4 29.2#
50 21.9 17.8 26.8





#39

1,2-Dichloropropane

Concen: 9.734 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.49 min

Lab File: VL036156.D

Acq: 11 Dec 2020 9:17

Instrument :

MSVOA_X

ClientSampleId :

OFFSITE-SG-2

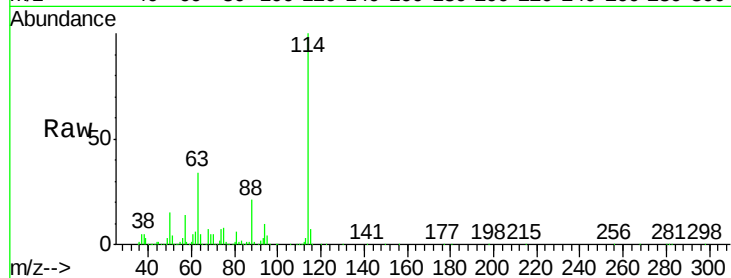
Tgt Ion: 63 Resp: 819460

Ion Ratio Lower Upper

63 100

41 0.0 61.9 92.9#

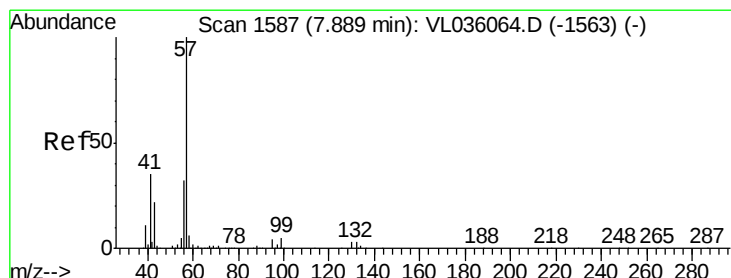
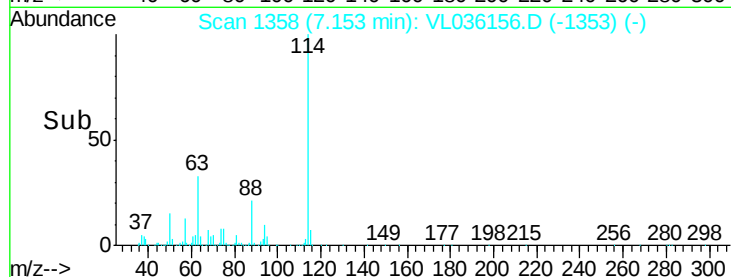
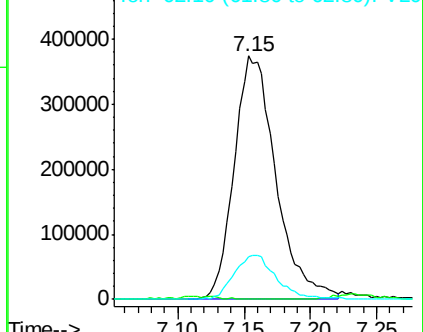
62 17.4 52.5 78.7#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.099 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.04 min

Lab File: VL036156.D

Acq: 11 Dec 2020 9:17

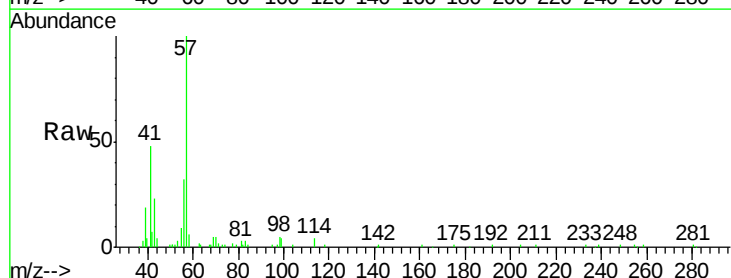
Tgt Ion: 57 Resp: 38035

Ion Ratio Lower Upper

57 100

41 105.8 28.9 43.3#

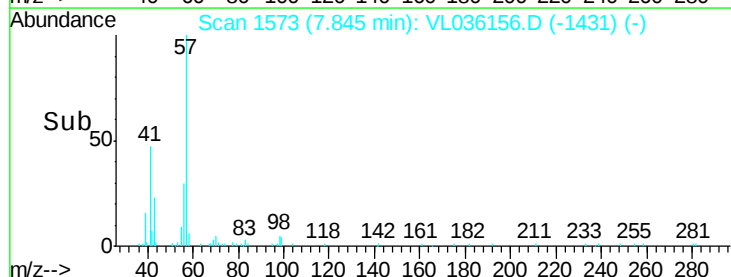
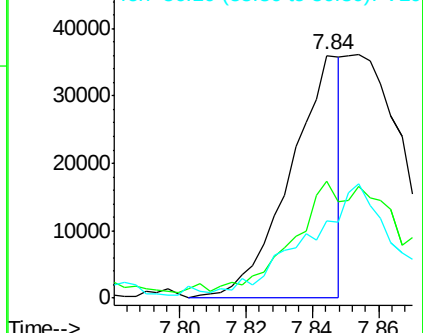
56 0.0 25.3 37.9#

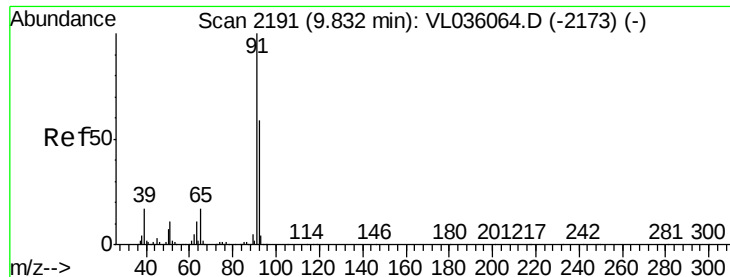


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 2.308 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.04 min

Lab File: VL036156.D

Acq: 11 Dec 2020 9:17

Instrument :

MSVOA_X

ClientSampleId :

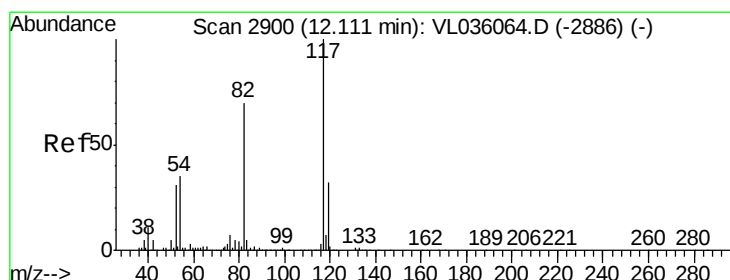
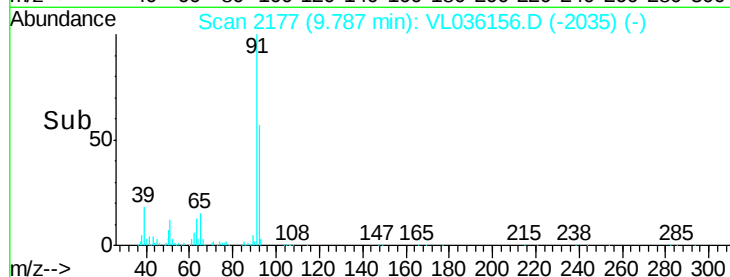
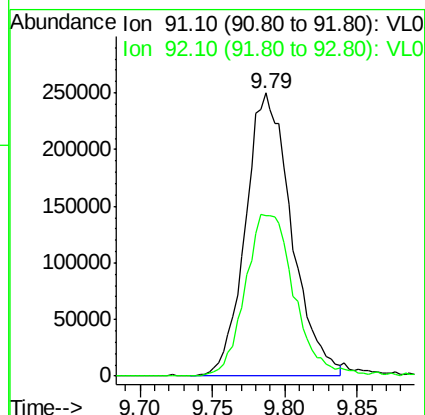
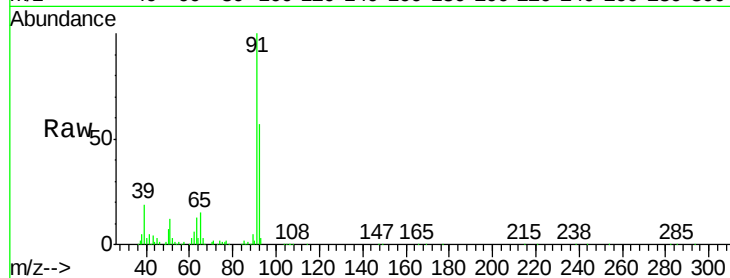
OFFSITE-SG-2

Tgt Ion: 91 Resp: 552493

Ion Ratio Lower Upper

91 100

92 61.9 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.04 min

Lab File: VL036156.D

Acq: 11 Dec 2020 9:17

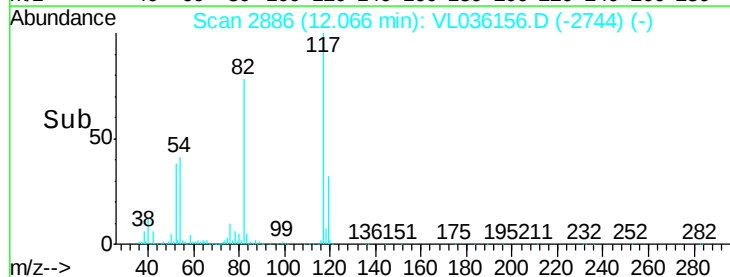
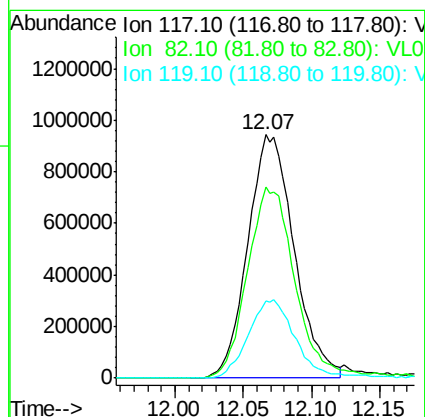
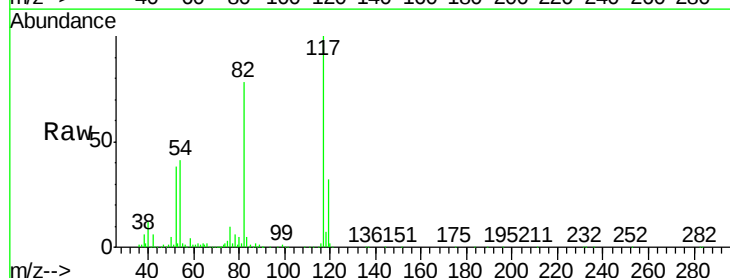
Tgt Ion: 117 Resp: 2222882

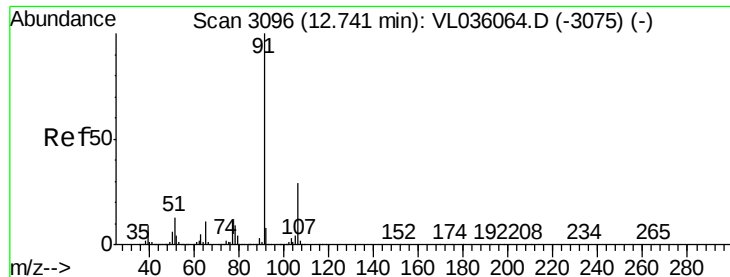
Ion Ratio Lower Upper

117 100

82 82.5 0.0 0.0#

119 33.1 0.0 0.0#





#58

Ethyl Benzene

Concen: 0.105 ppbv

RT: 12.70 min Scan# 3083

Delta R.T. -0.04 min

Lab File: VL036156.D

Acq: 11 Dec 2020 9:17

Instrument :

MSVOA_X

ClientSampleId :

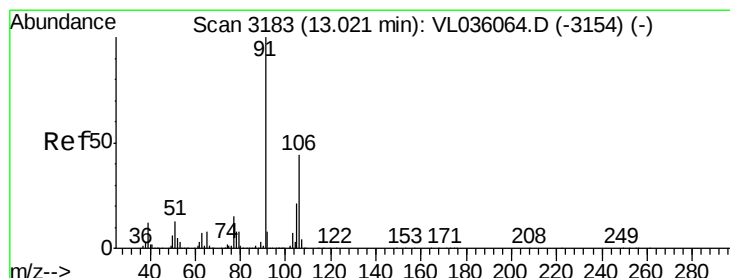
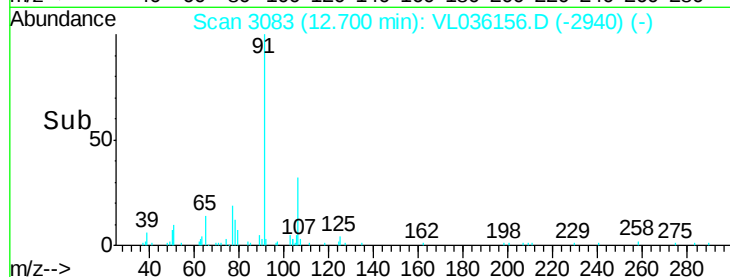
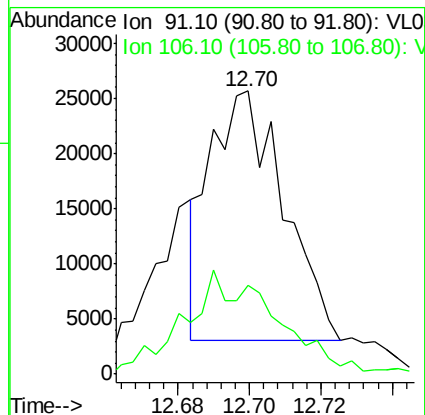
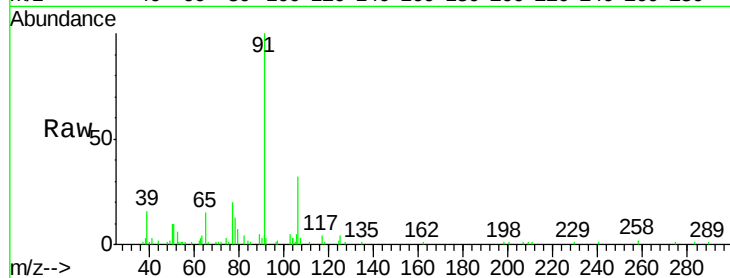
OFFSITE-SG-2

Tgt Ion: 91 Resp: 31964

Ion Ratio Lower Upper

91 100

106 32.4 23.0 34.4



#59

m/p-Xylene

Concen: 0.172 ppbv

RT: 12.97 min Scan# 3166

Delta R.T. -0.05 min

Lab File: VL036156.D

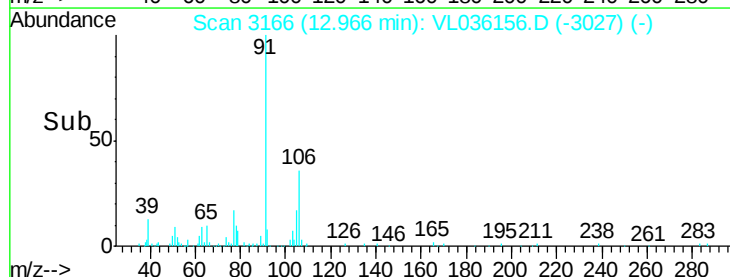
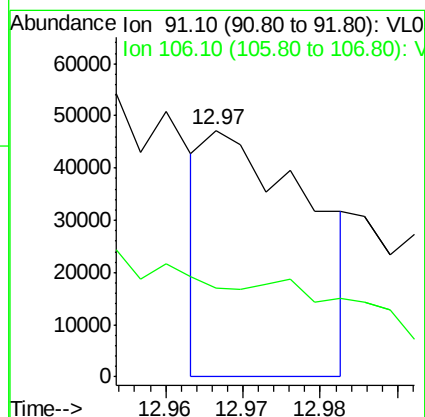
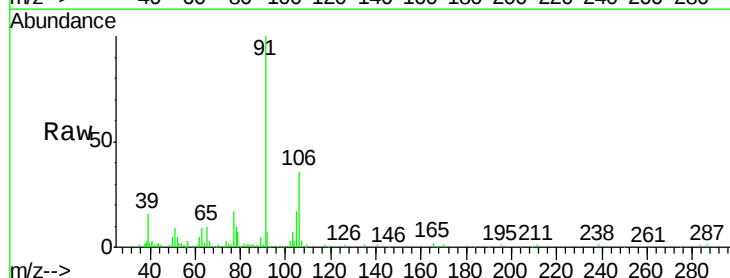
Acq: 11 Dec 2020 9:17

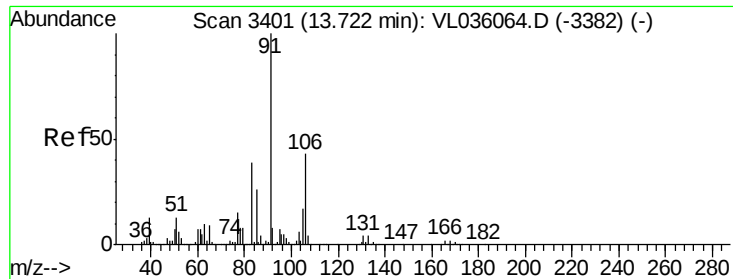
Tgt Ion: 91 Resp: 44214

Ion Ratio Lower Upper

91 100

106 0.0 33.6 50.4#

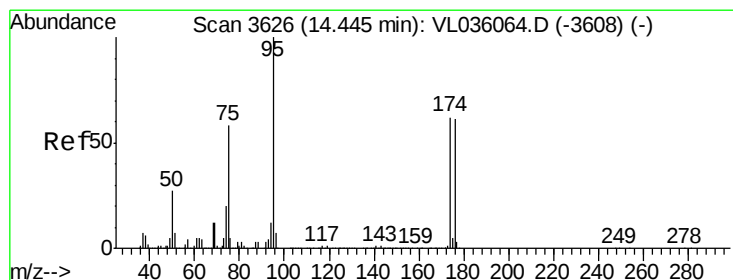
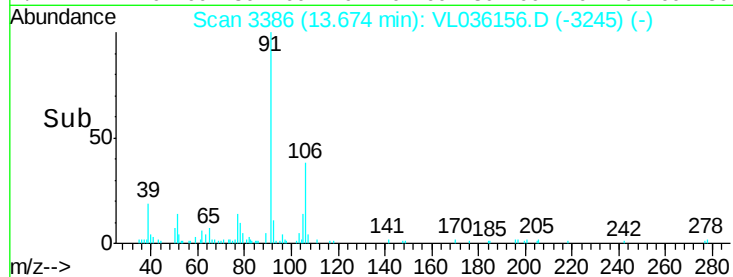
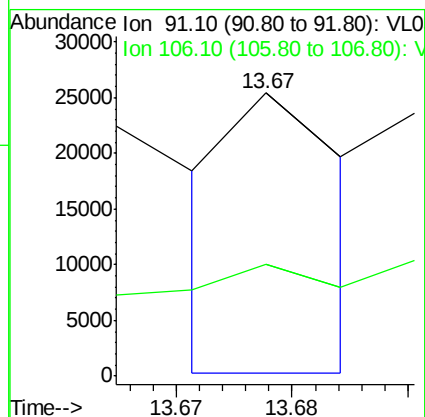
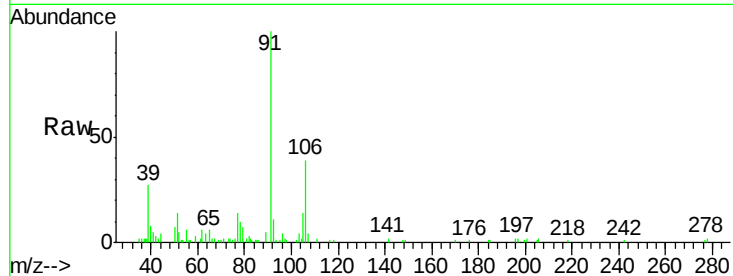




#60
o-Xylene
Concen: 0.036 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. -0.05 min
Lab File: VL036156.D
Acq: 11 Dec 2020 9:17

Instrument :
MSVOA_X
ClientSampleId :
OFFSITE-SG-2

Tgt Ion: 91 Resp: 8589
Ion Ratio Lower Upper
91 100
106 0.0 21.6 64.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 11.225 ppbv
RT: 14.40 min Scan# 3612
Delta R.T. -0.04 min
Lab File: VL036156.D
Acq: 11 Dec 2020 9:17

Tgt Ion: 95 Resp: 1981287
Ion Ratio Lower Upper
95 100
174 55.1 50.7 76.1
175 3.8 4.0 6.0#

