

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121718\
 Data File : VL033013.D
 Acq On : 18 Dec 2018 2:27
 Operator : SY/AP
 Sample : J6444-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 18 09:17:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1238274	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2996010	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2773799	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2372805	11.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	115.80%

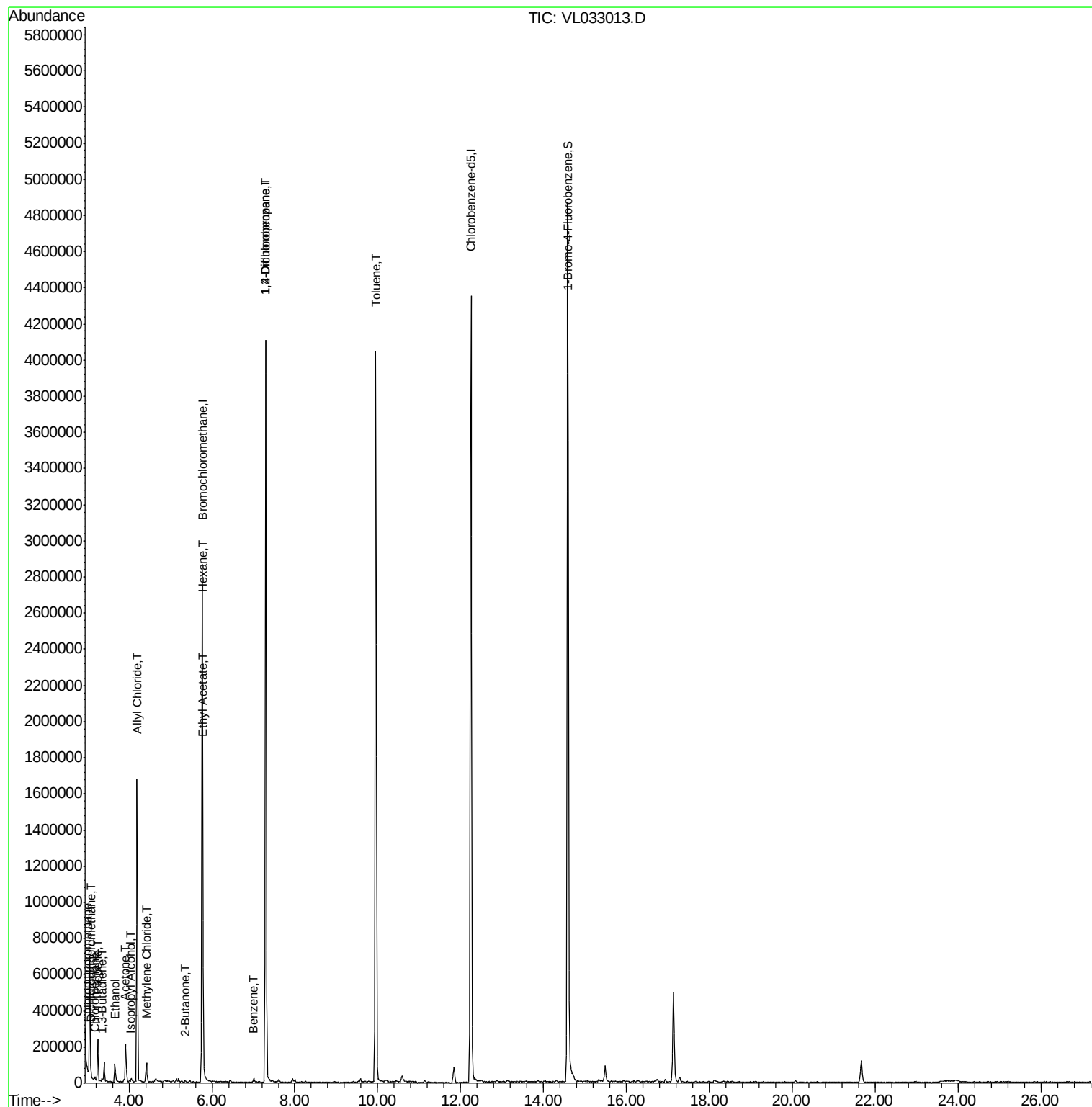
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	11156	0.067	ppbv #	80
3) Chlorodifluoromethane	3.00	51	16619	0.177	ppbv #	71
4) Chloromethane	3.18	50	11410	0.209	ppbv #	84
9) Propene	3.25	41	64089	1.728	ppbv	96
13) Ethanol	3.66	45	93229	7.302	ppbv	92
15) Acetone	3.91	43	207528	1.953	ppbv	99
16) 1,3-Butadiene	3.35	39	4630	0.110	ppbv #	48
19) Isopropyl Alcohol	4.05	45	17990	0.270	ppbv #	95
20) Methylene Chloride	4.42	84	33102	0.637	ppbv	95
21) Allyl Chloride	4.19	41	483593	5.583	ppbv #	49
25) Ethyl Acetate	5.79	43	29062	0.116	ppbv #	89
26) Hexane	5.78	57	34124	0.294	ppbv #	47
34) 2-Butanone	5.35	43	6365	0.049	ppbv #	83
36) Benzene	7.01	78	6693	0.030	ppbv	95
39) 1,2-Dichloropropane	7.30	63	710016	8.496	ppbv #	21
53) Toluene	9.95	91	3125507	13.373	ppbv	100

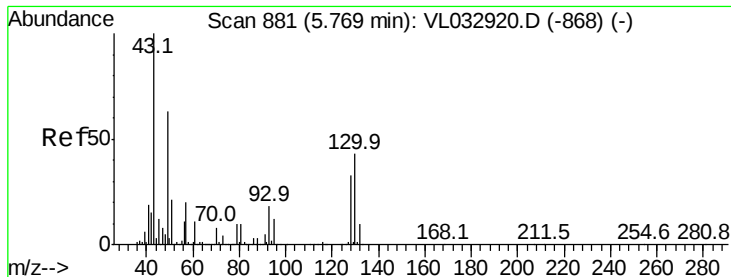
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033013.D

Acq: 18 Dec 2018 2:27

Instrument :

MSVOA_L

ClientSampleId :

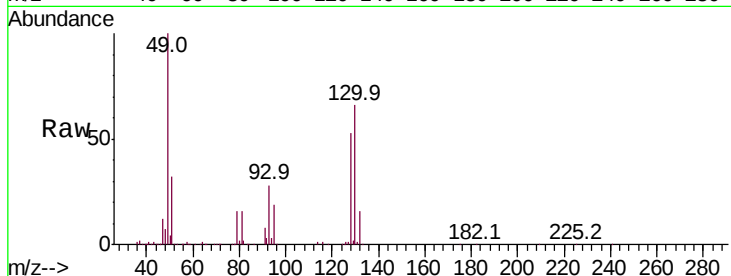
Tot Ion: 49 Resp: 1238274

Ion Ratio Lower Upper

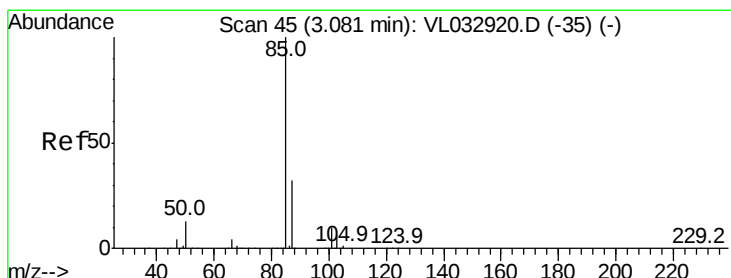
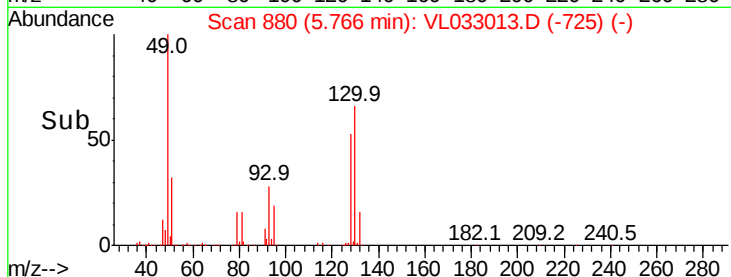
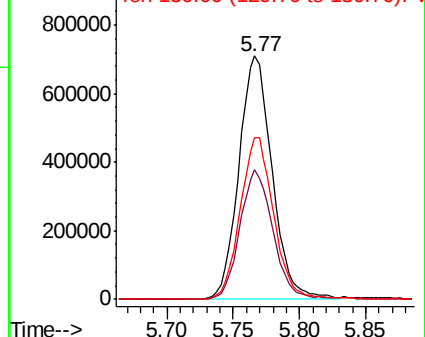
49 100

128 53.3 26.3 78.8

130 67.7 33.9 101.7



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



#2

Dichlorodifluoromethane

Concen: 0.067 ppbv

RT: 3.08 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL033013.D

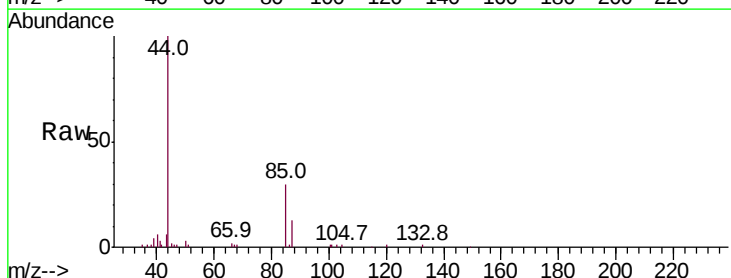
Acq: 18 Dec 2018 2:27

Tgt Ion: 85 Resp: 11156

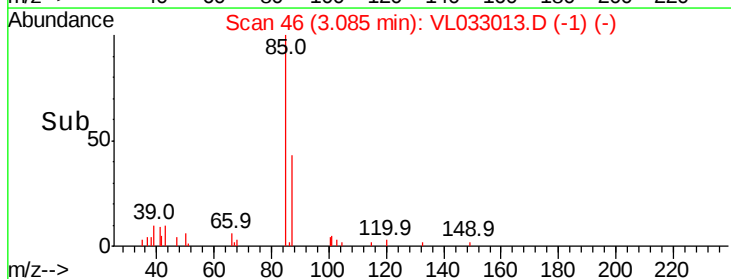
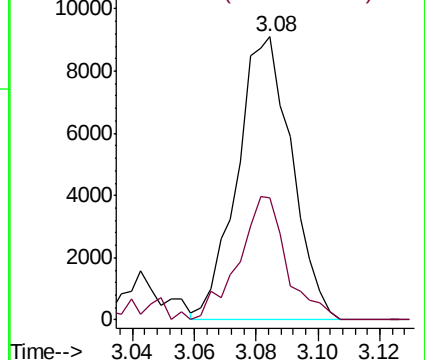
Ion Ratio Lower Upper

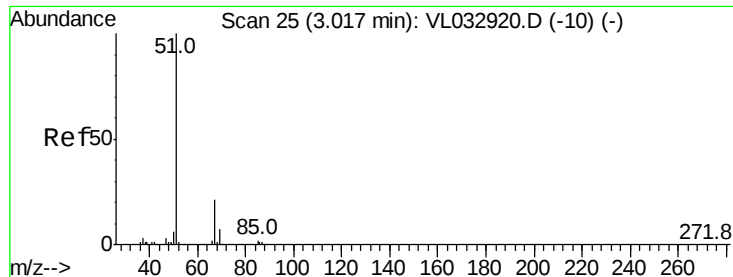
85 100

87 43.1 25.7 38.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.177 ppbv

RT: 3.00 min Scan# 19

Delta R.T. -0.02 min

Lab File: VL033013.D

Acq: 18 Dec 2018 2:27

Instrument :

MSVOA_L

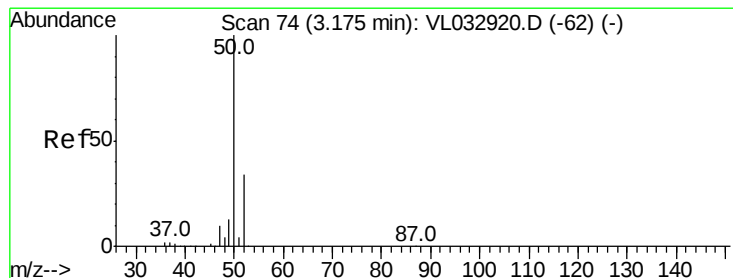
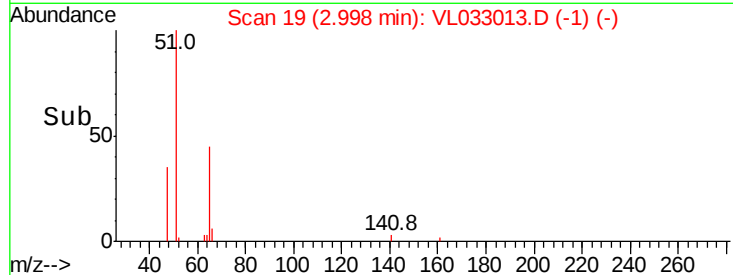
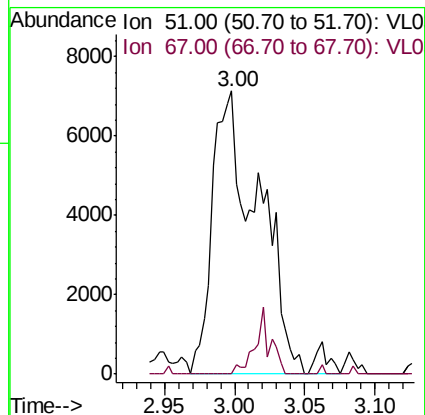
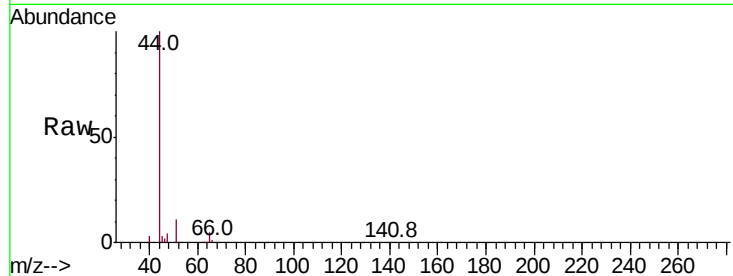
ClientSampleId :

Tot Ion: 51 Resp: 16619

Ion Ratio Lower Upper

51 100

67 7.6 16.8 25.2#



#4

Chloromethane

Concen: 0.209 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL033013.D

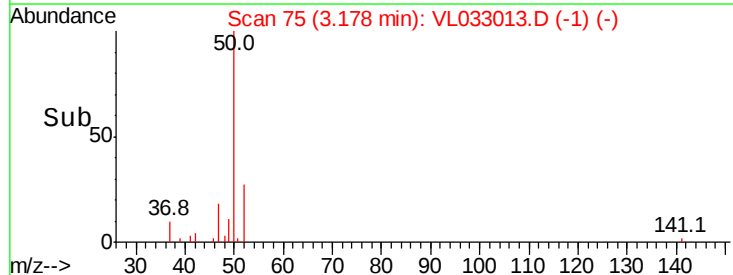
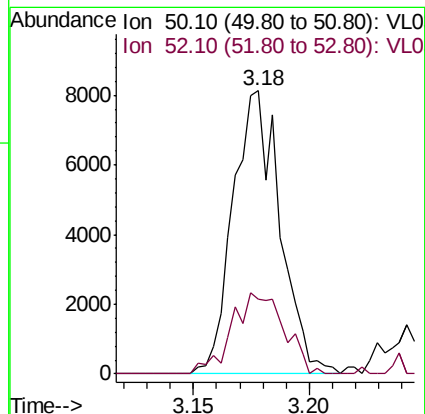
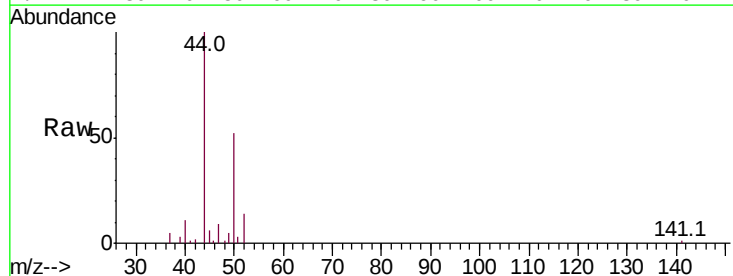
Acq: 18 Dec 2018 2:27

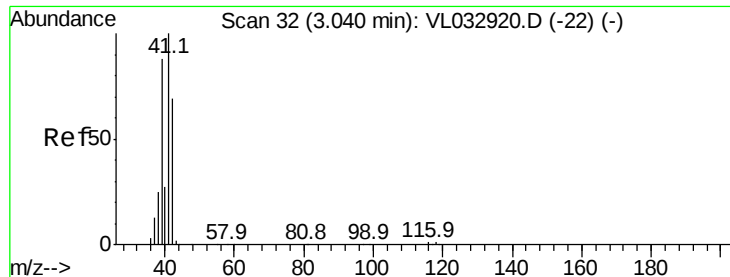
Tgt Ion: 50 Resp: 11410

Ion Ratio Lower Upper

50 100

52 24.8 27.3 40.9#





#9

Propene

Concen: 1.728 ppbv

RT: 3.25 min Scan# 96

Delta R.T. 0.21 min

Lab File: VL033013.D

Acq: 18 Dec 2018 2:27

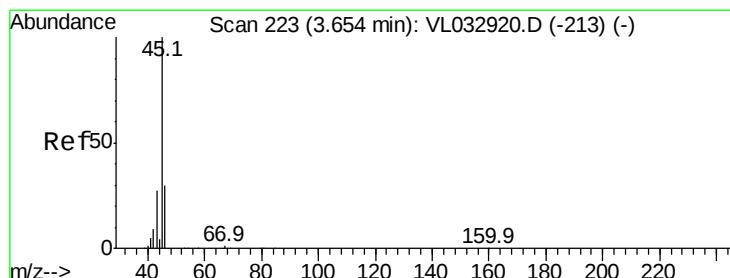
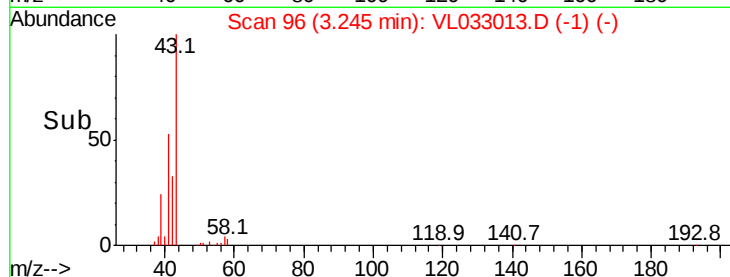
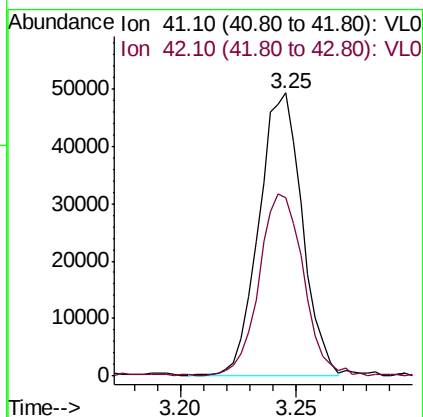
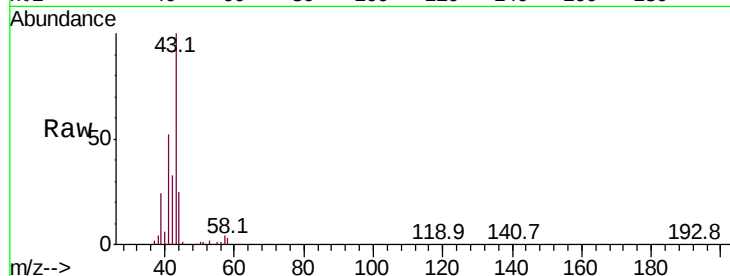
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 41 Resp: 64089

Ion Ratio Lower Upper

41 100

42 67.3 56.2 84.2



#13

Ethanol

Concen: 7.302 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033013.D

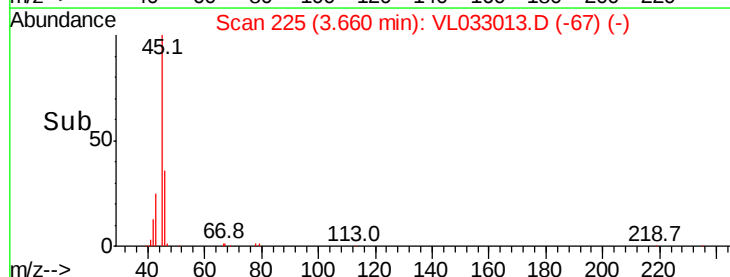
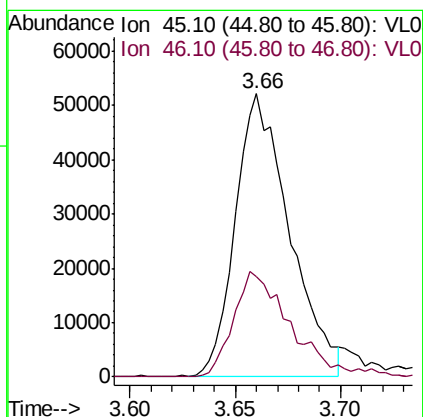
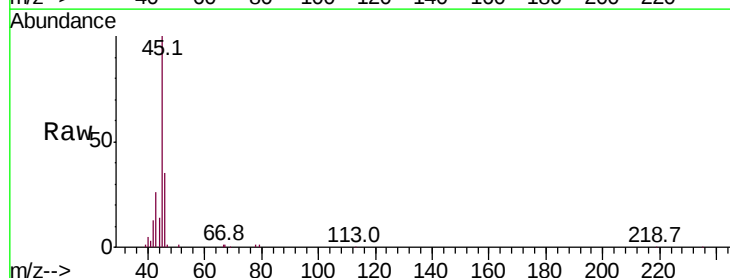
Acq: 18 Dec 2018 2:27

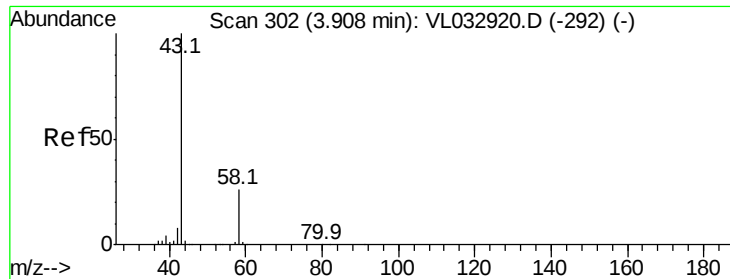
Tgt Ion: 45 Resp: 93229

Ion Ratio Lower Upper

45 100

46 39.2 13.8 55.4





#15

Acetone

Concen: 1.953 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL033013.D

Acq: 18 Dec 2018 2:27

Instrument :

MSVOA_L

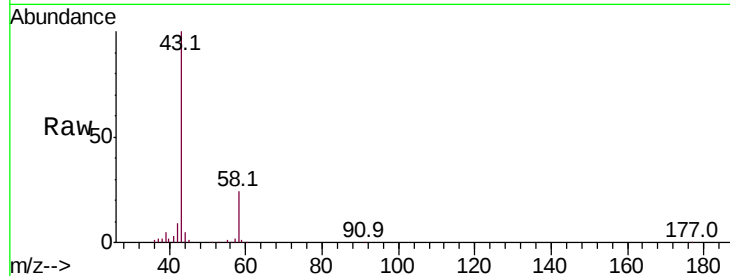
ClientSampleId :

Tot Ion: 43 Resp: 207528

Ion Ratio Lower Upper

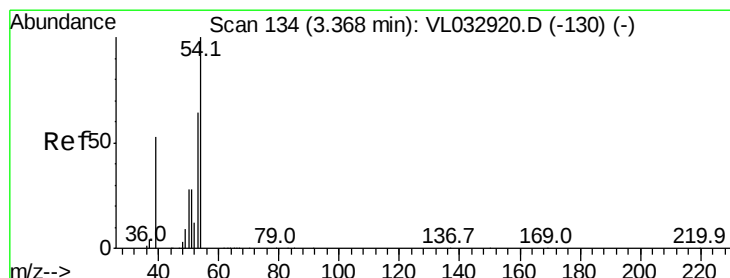
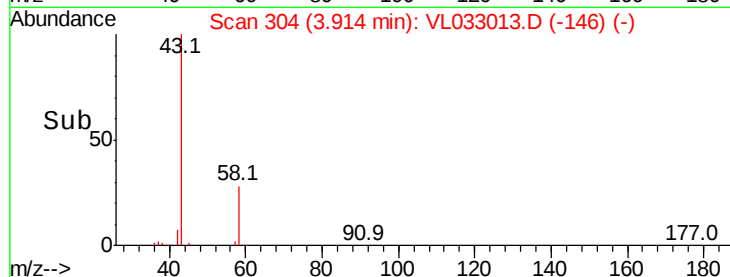
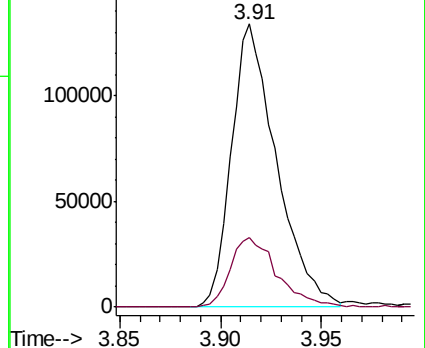
43 100

58 26.1 20.6 30.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.110 ppbv

RT: 3.35 min Scan# 127

Delta R.T. -0.02 min

Lab File: VL033013.D

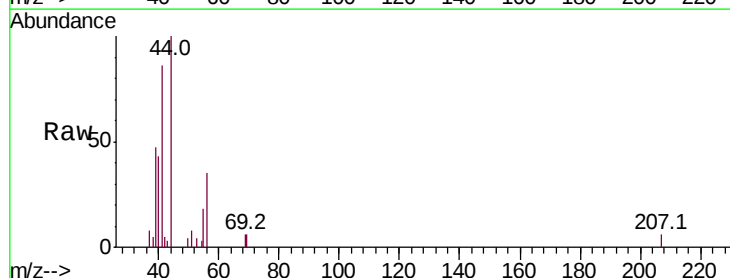
Acq: 18 Dec 2018 2:27

Tgt Ion: 39 Resp: 4630

Ion Ratio Lower Upper

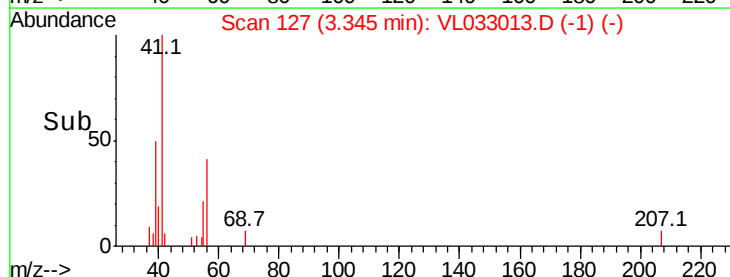
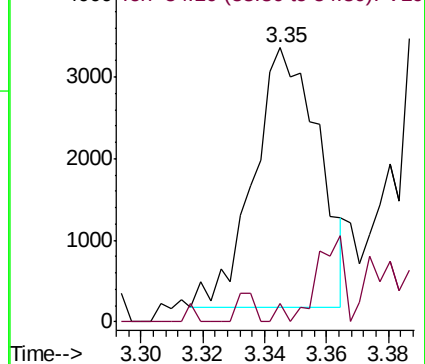
39 100

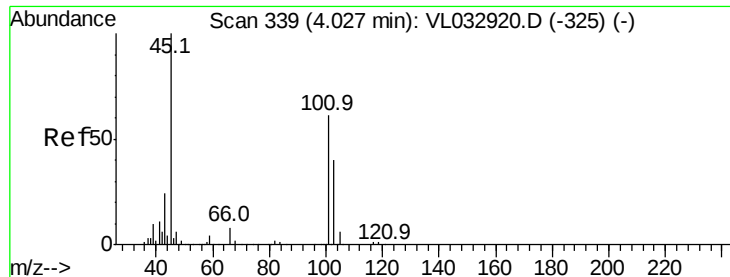
54 41.6 72.7 109.1#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 0.270 ppbv

RT: 4.05 min Scan# 346

Delta R.T. 0.02 min

Lab File: VL033013.D

Acq: 18 Dec 2018 2:27

Instrument :

MSVOA_L

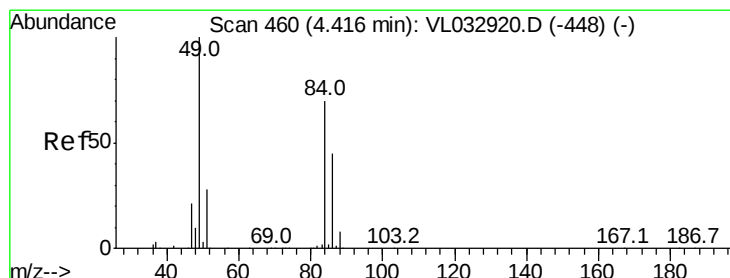
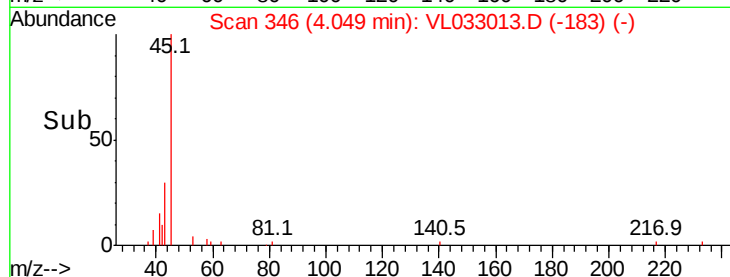
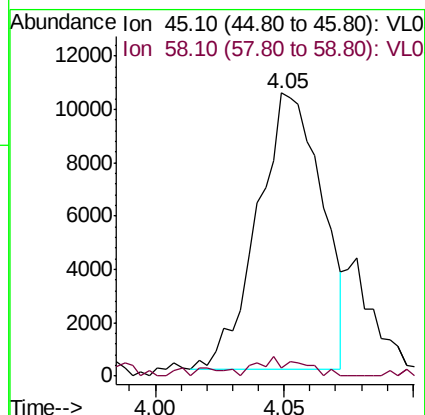
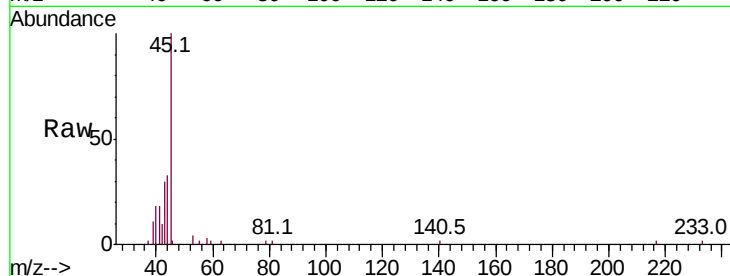
ClientSampleId :

Tot Ion: 45 Resp: 17990

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



#20

Methylene Chloride

Concen: 0.637 ppbv

RT: 4.42 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL033013.D

Acq: 18 Dec 2018 2:27

Tgt Ion: 84 Resp: 33102

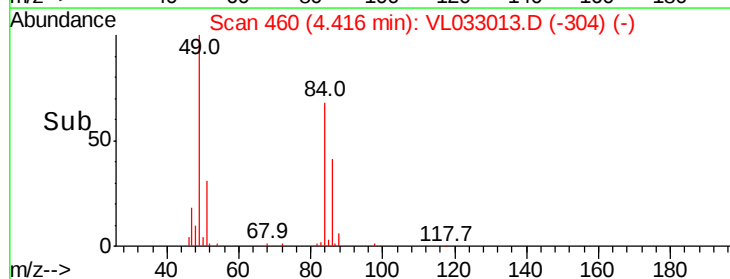
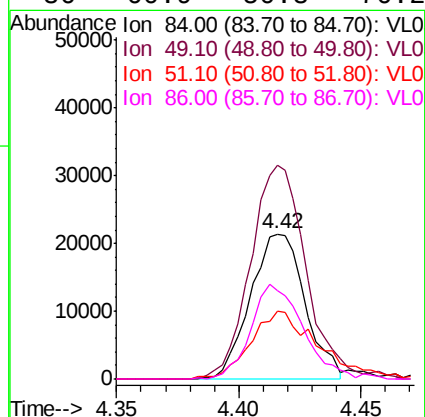
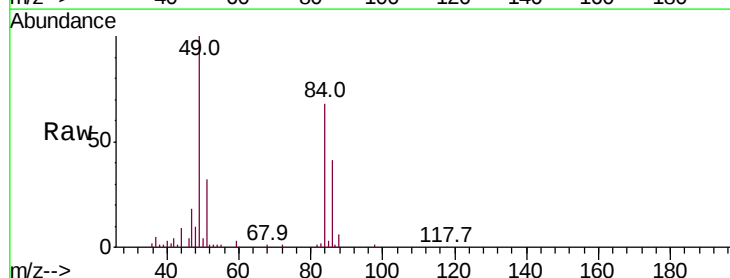
Ion Ratio Lower Upper

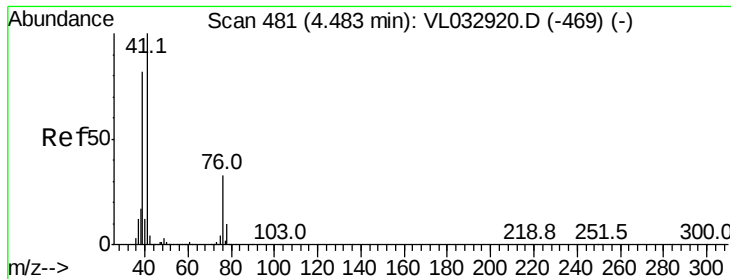
84 100

49 147.1 113.8 170.8

51 46.5 31.8 47.8

86 60.9 50.8 76.2

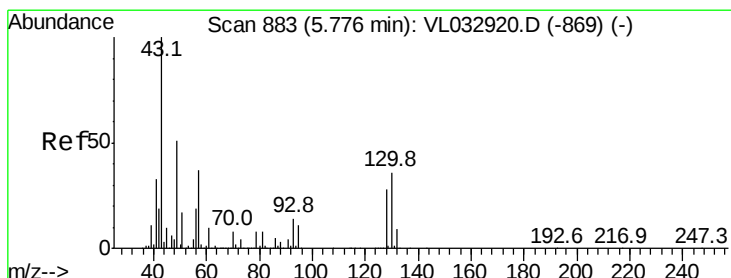
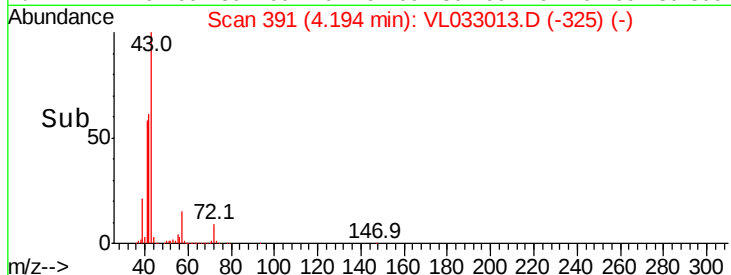
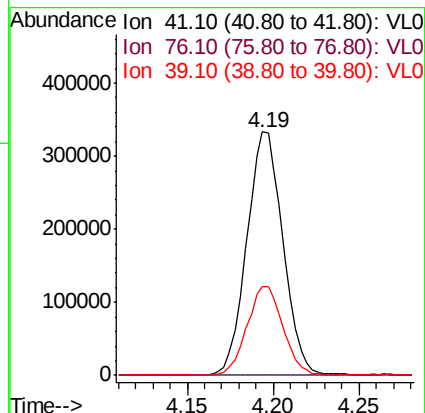
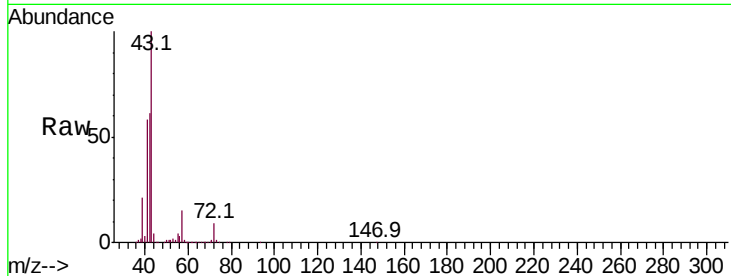




#21
Allvl Chloride
Concen: 5.583 ppbv
RT: 4.19 min Scan# 391
Delta R.T. -0.29 min
Lab File: VL033013.D
Acq: 18 Dec 2018 2:27

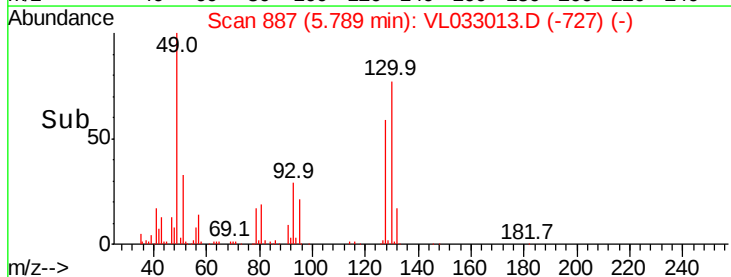
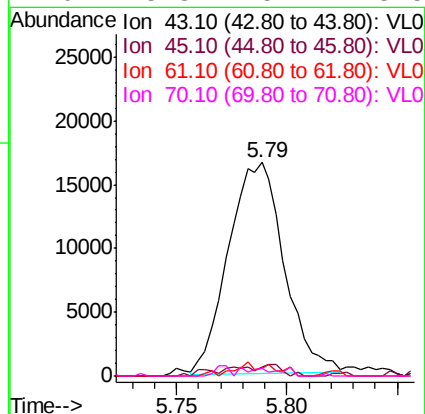
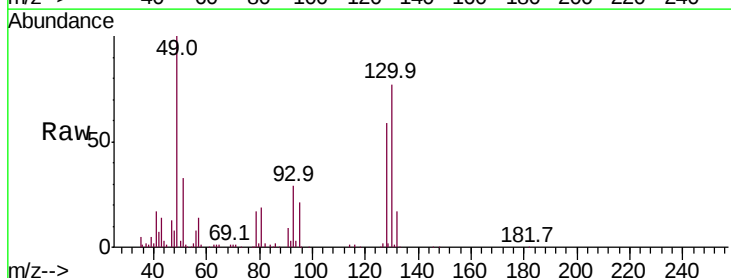
Instrument :
MSVOA_L
ClientSampleId :

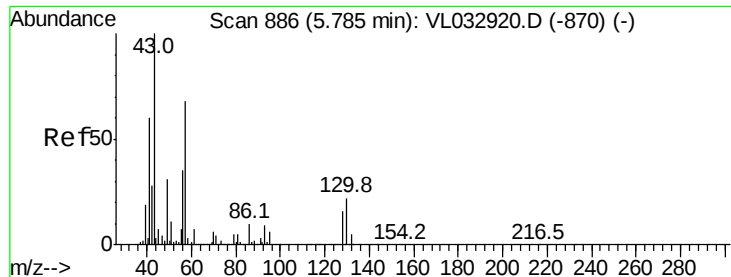
Tot Ion: 41 Resp: 483593
Ion Ratio Lower Upper
41 100
76 0.0 25.2 37.8#
39 37.6 65.2 97.8#



#25
Ethyl Acetate
Concen: 0.116 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.01 min
Lab File: VL033013.D
Acq: 18 Dec 2018 2:27

Tgt Ion: 43 Resp: 29062
Ion Ratio Lower Upper
43 100
45 5.7 7.8 11.6#
61 4.4 7.4 11.2#
70 3.8 5.7 8.5#

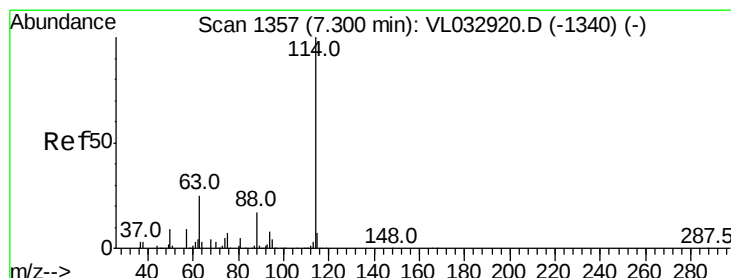
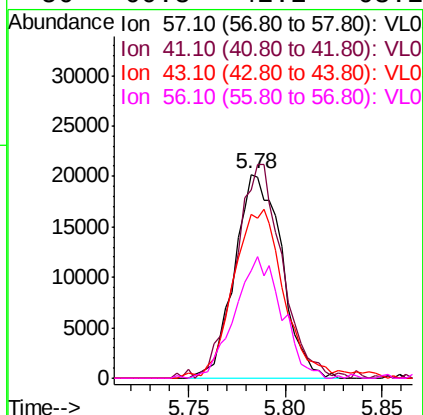
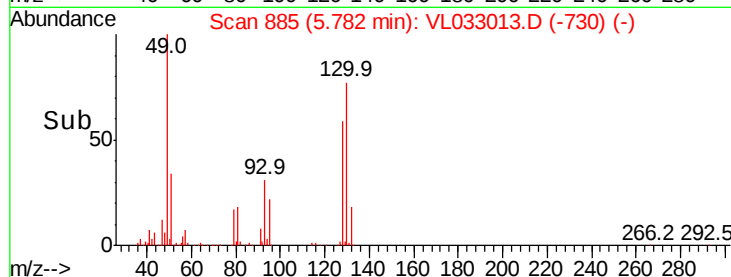
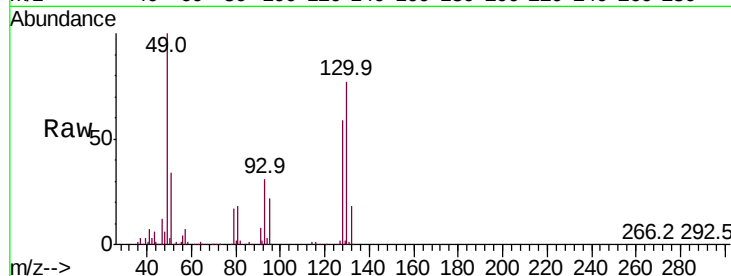




#26
Hexane
Concen: 0.294 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033013.D
Acq: 18 Dec 2018 2:27

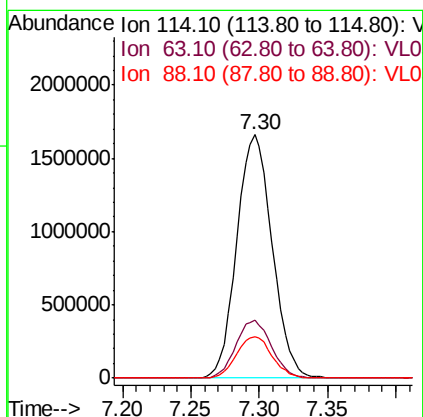
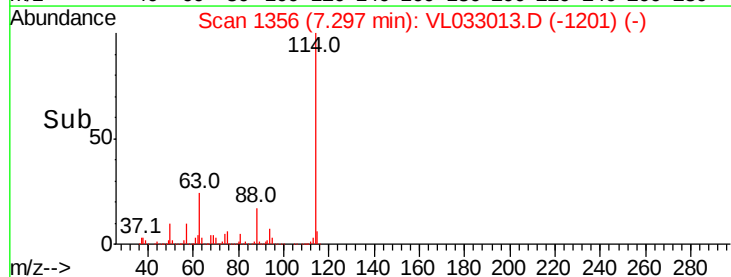
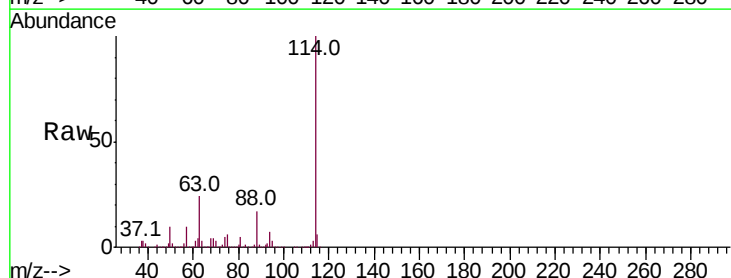
Instrument :
MSVOA_L
ClientSampleId :

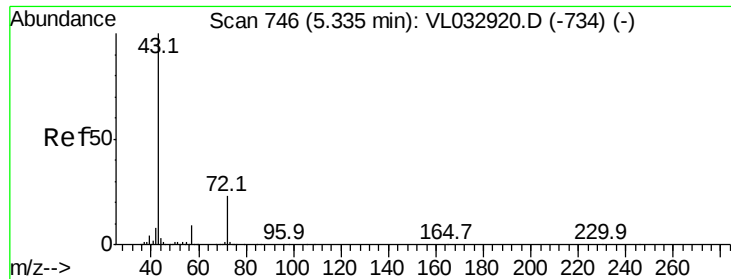
Tot Ion: 57 Resp: 34124
Ion Ratio Lower Upper
57 100
41 104.7 72.2 108.2
43 91.0 171.9 257.9#
56 60.8 42.2 63.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL033013.D
Acq: 18 Dec 2018 2:27

Tgt Ion: 114 Resp: 2996010
Ion Ratio Lower Upper
114 100
63 23.8 20.1 30.1
88 17.2 14.2 21.4





#34

2-Butanone

Concen: 0.049 ppbv

RT: 5.35 min Scan# 751

Delta R.T. 0.02 min

Lab File: VL033013.D

Acq: 18 Dec 2018 2:27

Instrument :

MSVOA_L

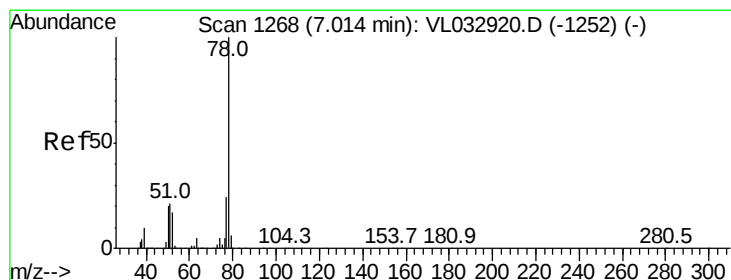
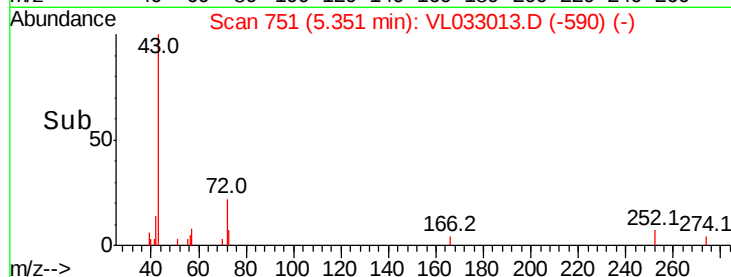
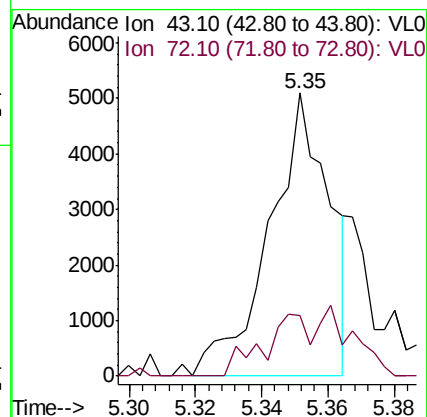
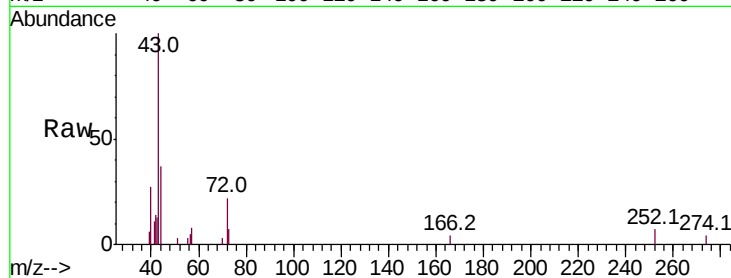
ClientSampleId :

Tot Ion: 43 Resp: 6365

Ion Ratio Lower Upper

43 100

72 31.7 18.8 28.2#



#36

Benzene

Concen: 0.030 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VL033013.D

Acq: 18 Dec 2018 2:27

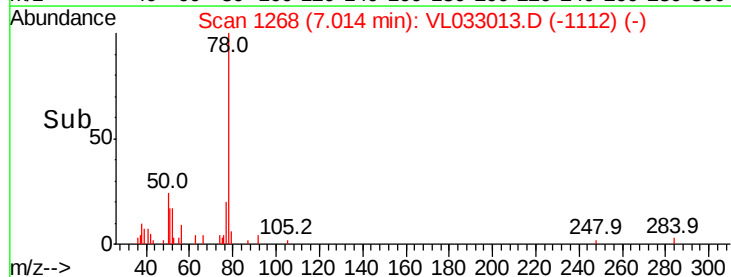
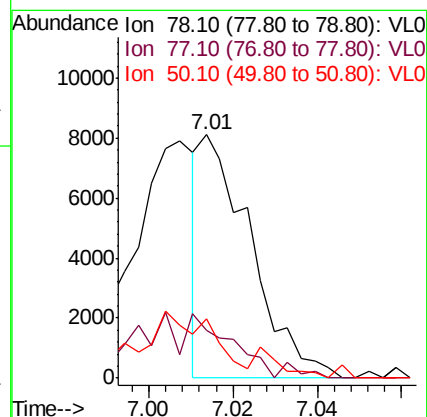
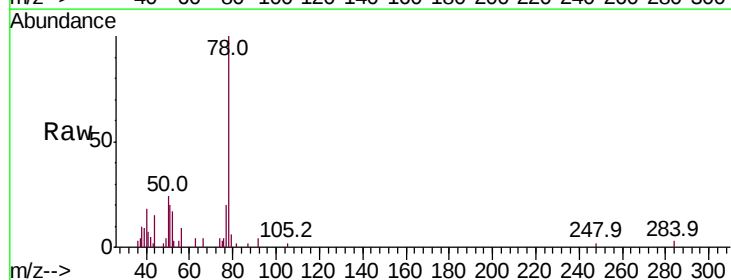
Tgt Ion: 78 Resp: 6693

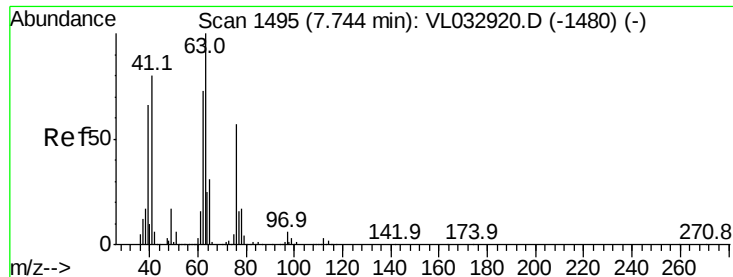
Ion Ratio Lower Upper

78 100

77 19.5 18.9 28.3

50 19.3 16.1 24.1





#39

1,2-Dichloropropane

Concen: 8.496 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL033013.D

Acq: 18 Dec 2018 2:27

Instrument :

MSVOA_L

ClientSampleId :

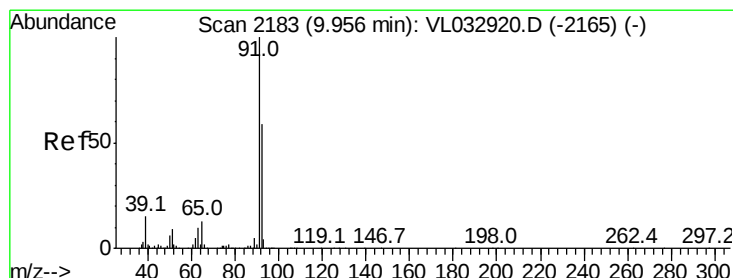
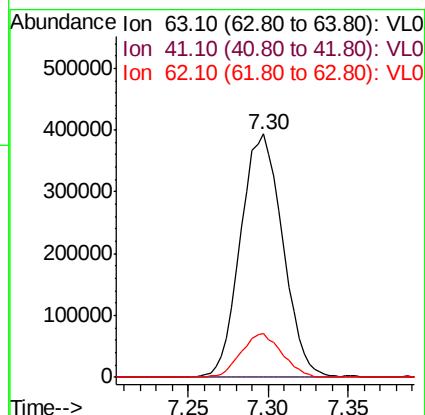
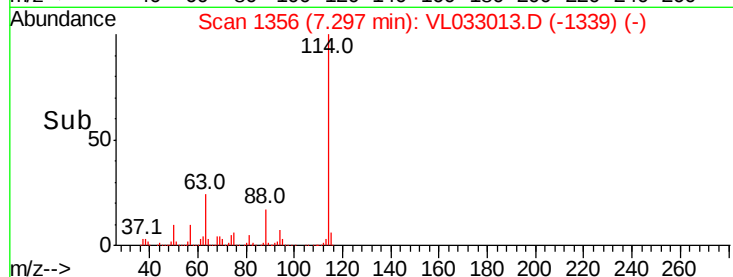
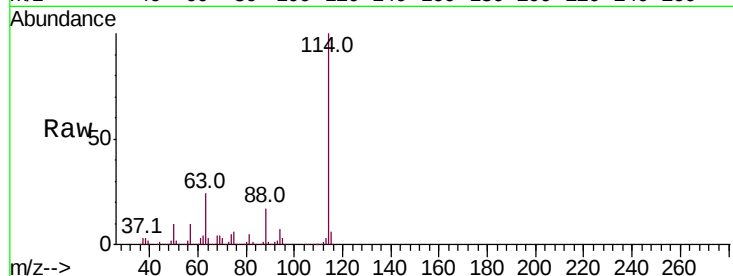
Tot Ion: 63 Resp: 710016

Ion Ratio Lower Upper

63 100

41 0.0 63.9 95.9#

62 17.9 58.8 88.2#



#53

Toluene

Concen: 13.373 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL033013.D

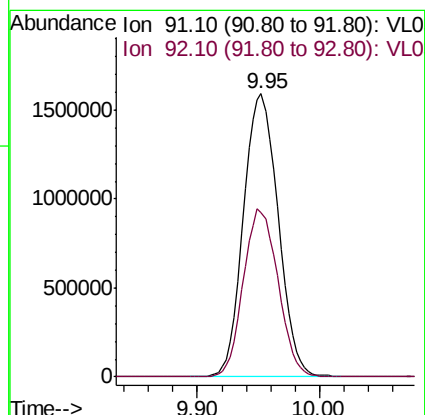
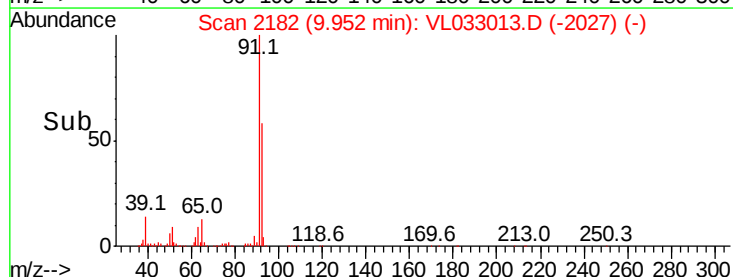
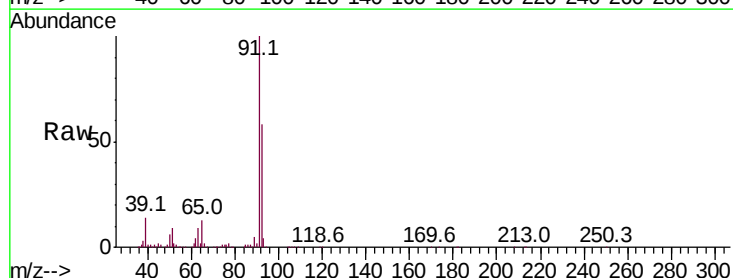
Acq: 18 Dec 2018 2:27

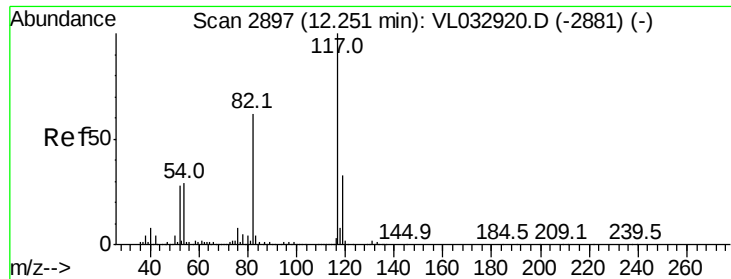
Tgt Ion: 91 Resp: 3125507

Ion Ratio Lower Upper

91 100

92 59.5 47.4 71.0

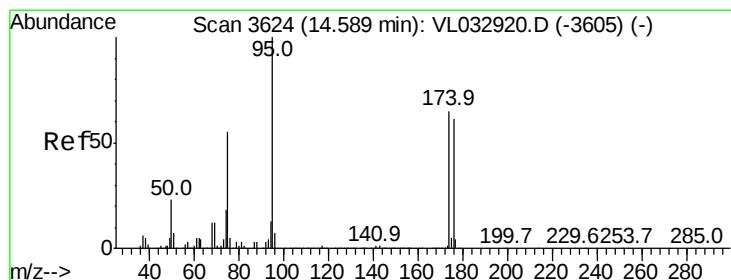
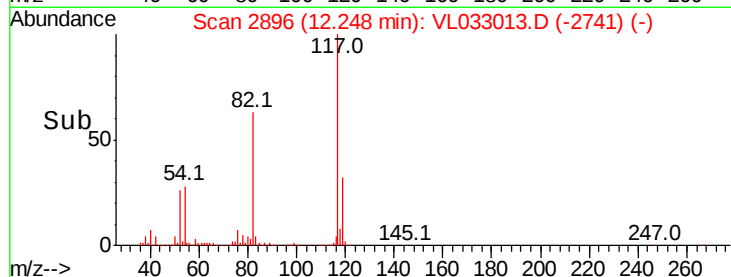
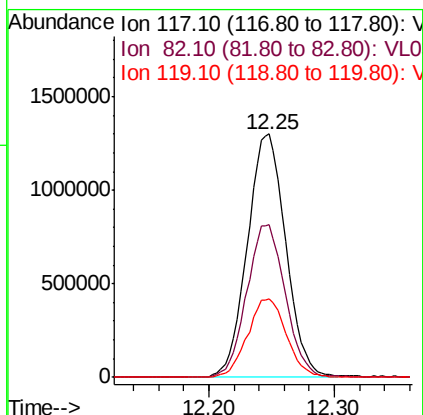
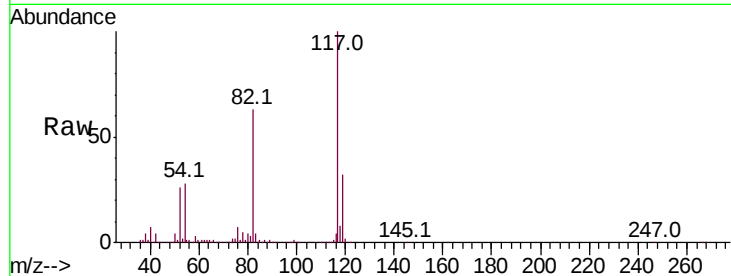




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL033013.D
Acq: 18 Dec 2018 2:27

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2773799
Ion Ratio Lower Upper
117 100
82 63.0 47.8 71.8
119 32.7 43.1 64.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 11.579 ppbv
RT: 14.58 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL033013.D
Acq: 18 Dec 2018 2:27

Tgt Ion: 95 Resp: 2372805
Ion Ratio Lower Upper
95 100
174 66.3 51.4 77.0
175 4.8 3.8 5.6

