

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092718\
 Data File : VL032579.D
 Acq On : 28 Sep 2018 11:53
 Operator : SY/AP
 Sample : J5094-11 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 28 23:12:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 25 05:17:15 2018
 QLast Update : Tue Sep 25 05:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1301711	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2897959	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2840043	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2204827	10.29	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

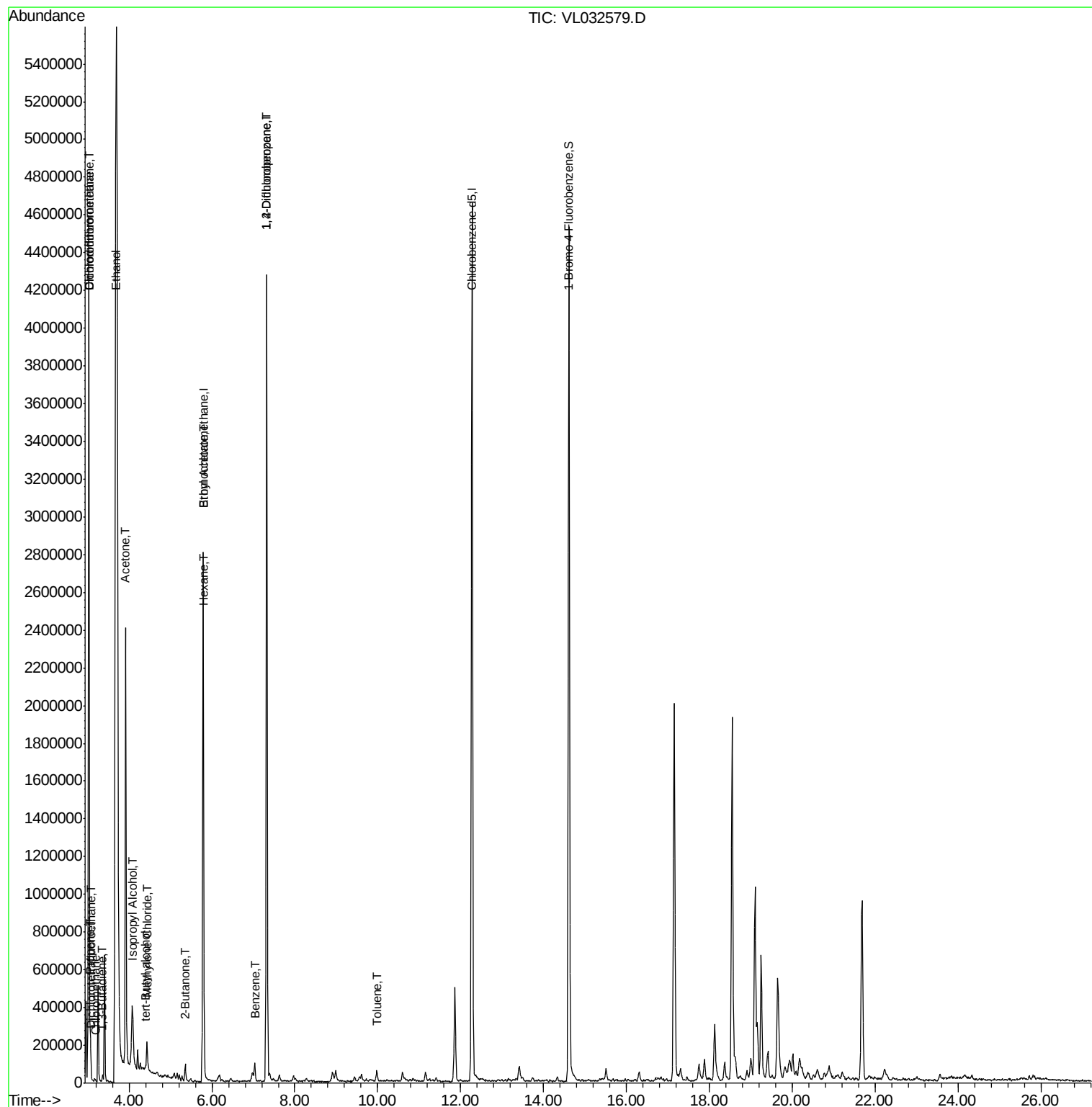
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	68785	0.571	ppbv 99
3) Chlorodifluoromethane	3.03	51	4383466	40.494	ppbv 97
4) Chloromethane	3.19	50	6655	0.105	ppbv 98
8) Dichlorotetrafluoroethane	3.09	85	8440	0.064	ppbv # 20
9) Propene	3.06	41	52332	1.114	ppbv # 70
13) Ethanol	3.69	45	13340159	944.930	ppbv 95
15) Acetone	3.92	43	2284568	19.994	ppbv 100
16) 1,3-Butadiene	3.36	39	9013	0.195	ppbv # 33
17) tert-Butyl alcohol	4.39	59	1870	0.130	ppbv # 100
19) Isopropyl Alcohol	4.08	45	320046	4.021	ppbv # 93
20) Methylene Chloride	4.43	84	43508	0.786	ppbv 95
25) Ethyl Acetate	5.79	43	123336	0.445	ppbv # 93
26) Hexane	5.80	57	36494	0.291	ppbv # 41
34) 2-Butanone	5.35	43	89343	0.518	ppbv 97
36) Benzene	7.03	78	66191	0.283	ppbv # 92
39) 1,2-Dichloropropane	7.32	63	783503	7.424	ppbv # 26
53) Toluene	9.98	91	36246	0.127	ppbv 94

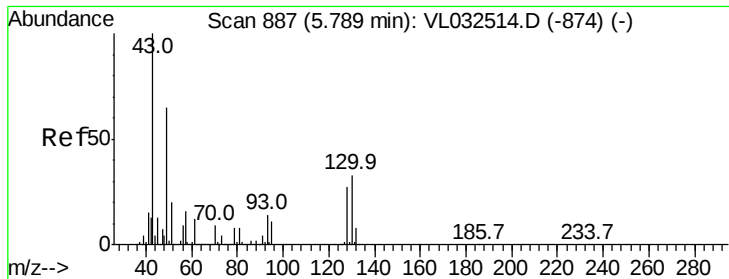
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032579.D

Acq: 28 Sep 2018 11:53

Instrument :
MSVOA_L
ClientSampleId :

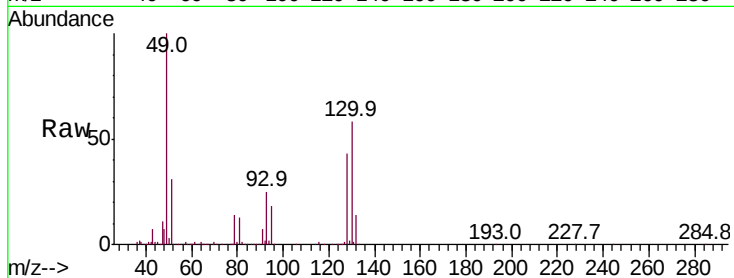
Tot Ion: 49 Resp: 1301711

Ion Ratio Lower Upper

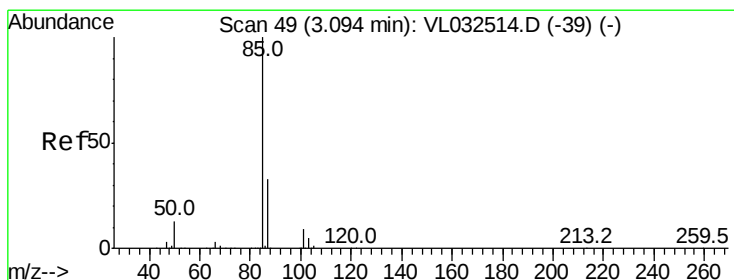
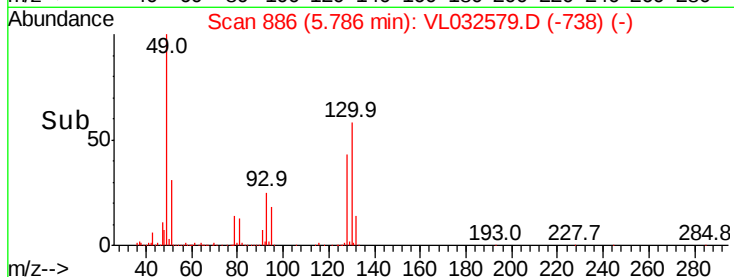
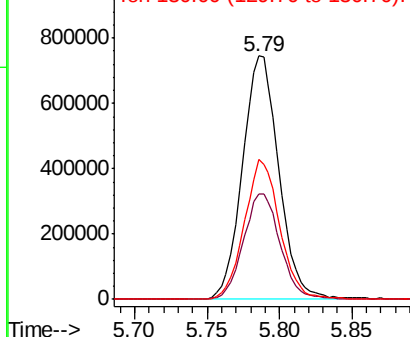
49 100

128 44.2 20.7 62.1

130 56.2 26.6 79.7



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: 0.571 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.08 min

Lab File: VL032579.D

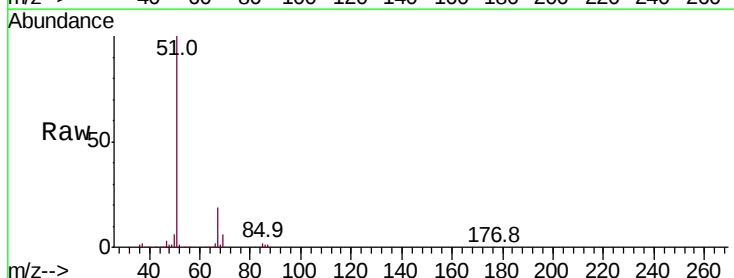
Acq: 28 Sep 2018 11:53

Tgt Ion: 85 Resp: 68785

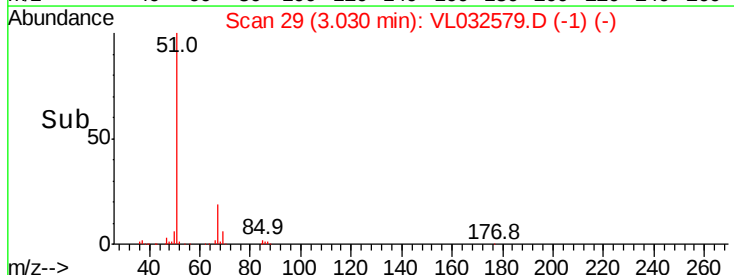
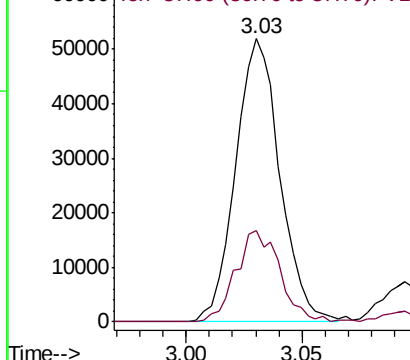
Ion Ratio Lower Upper

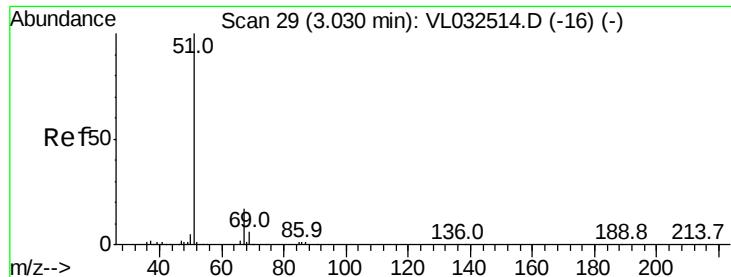
85 100

87 32.2 26.2 39.4



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





#3

Chlorodifluoromethane

Concen: 40.494 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032579.D

Acq: 28 Sep 2018 11:53

Instrument :

MSVOA_L

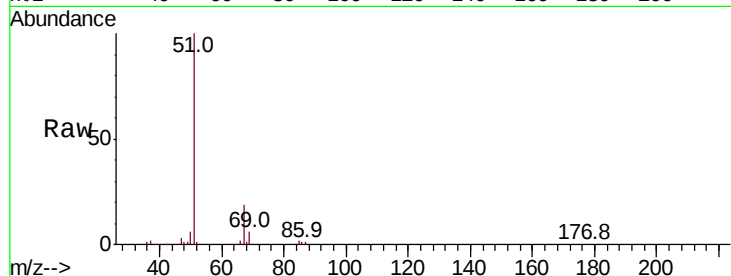
ClientSampleId :

Tot Ion: 51 Resp: 4383466

Ion Ratio Lower Upper

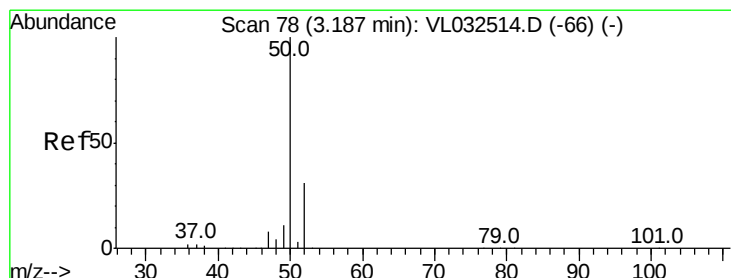
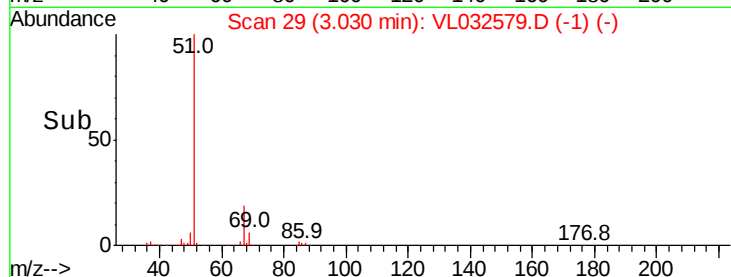
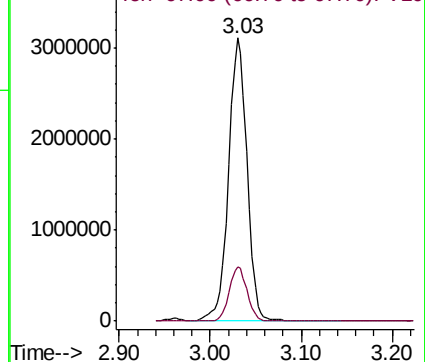
51 100

67 18.5 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.105 ppbv

RT: 3.19 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL032579.D

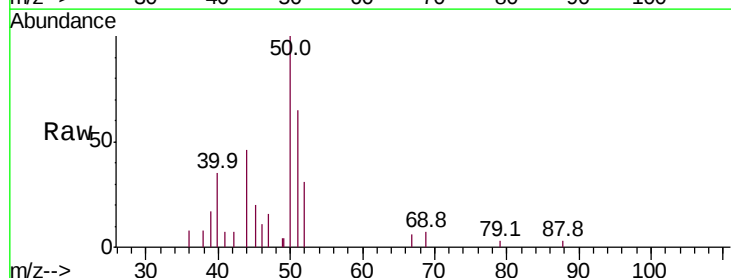
Acq: 28 Sep 2018 11:53

Tgt Ion: 50 Resp: 6655

Ion Ratio Lower Upper

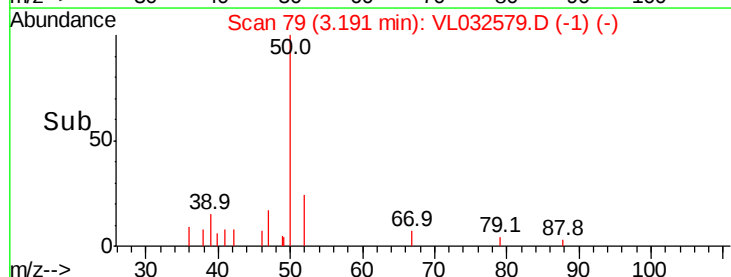
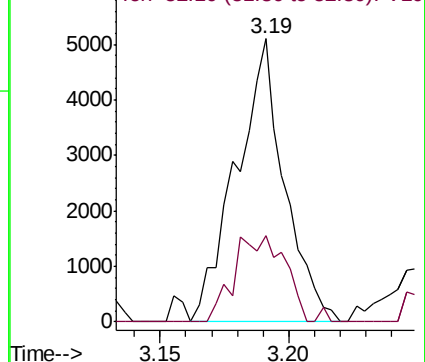
50 100

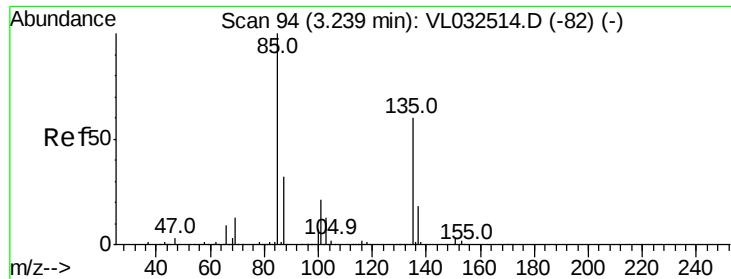
52 30.7 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.064 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.16 min

Lab File: VL032579.D

Acq: 28 Sep 2018 11:53

Instrument :

MSVOA_L

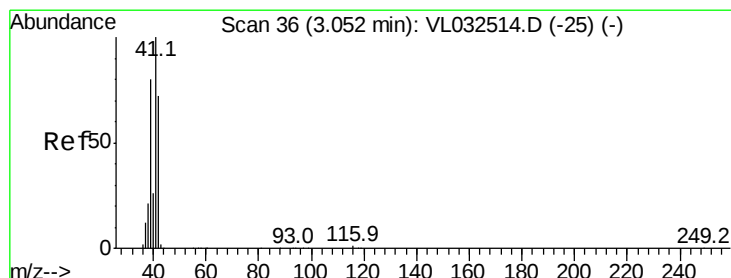
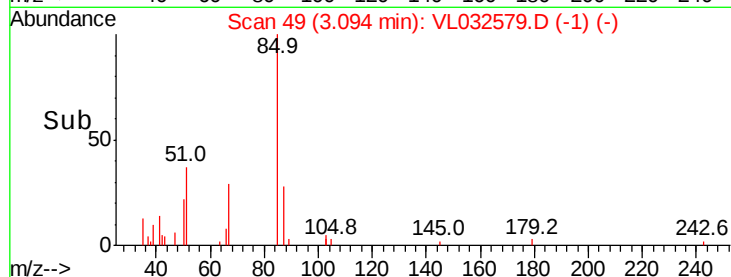
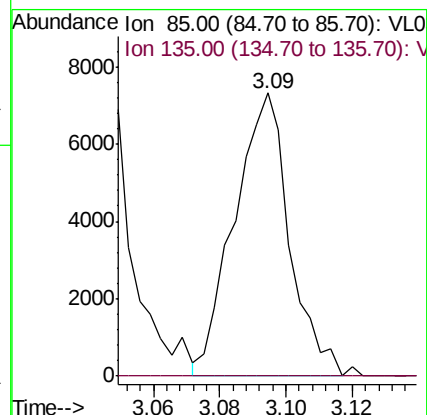
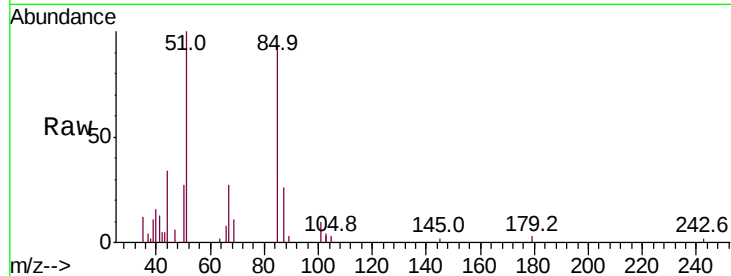
ClientSampleId :

Tot Ion: 85 Resp: 8440

Ion Ratio Lower Upper

85 100

135 0.0 48.6 72.8#



#9

Propene

Concen: 1.114 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL032579.D

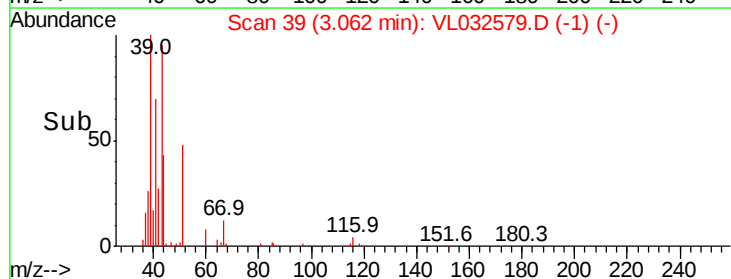
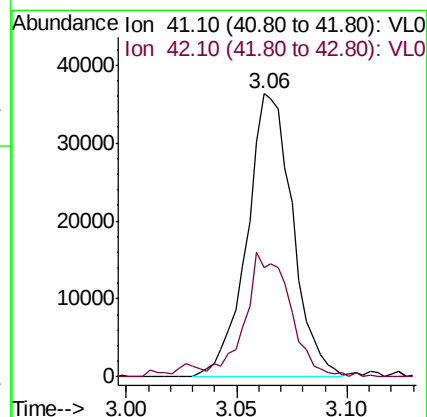
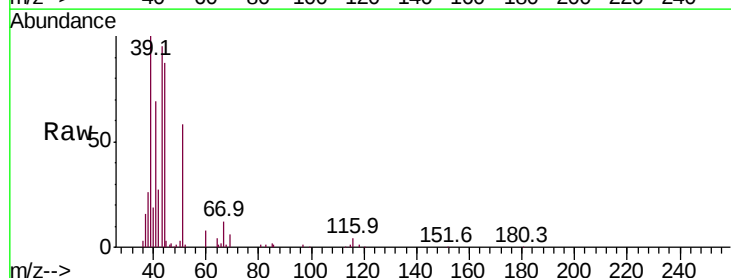
Acq: 28 Sep 2018 11:53

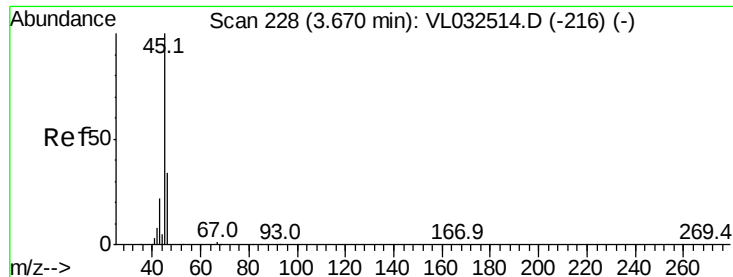
Tgt Ion: 41 Resp: 52332

Ion Ratio Lower Upper

41 100

42 46.1 56.6 84.8#





#13

Ethanol

Concen: 944.930 ppbv

RT: 3.69 min Scan# 235

Delta R.T. 0.01 min

Lab File: VL032579.D

Acq: 28 Sep 2018 11:53

Instrument :

MSVOA_L

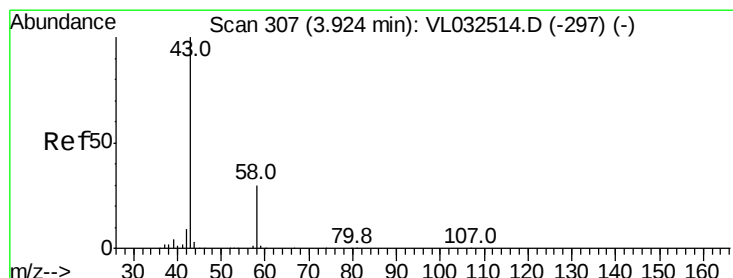
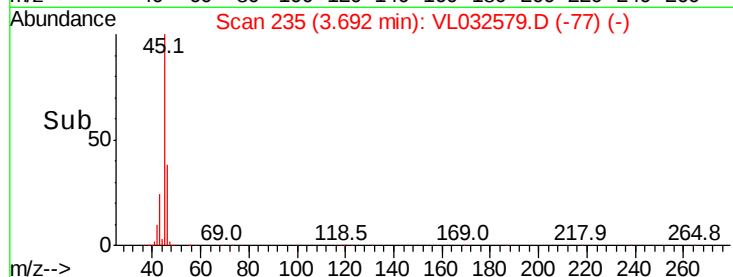
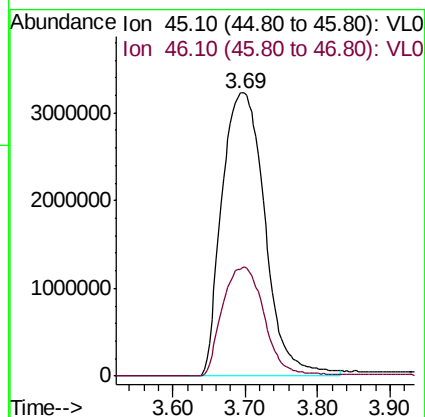
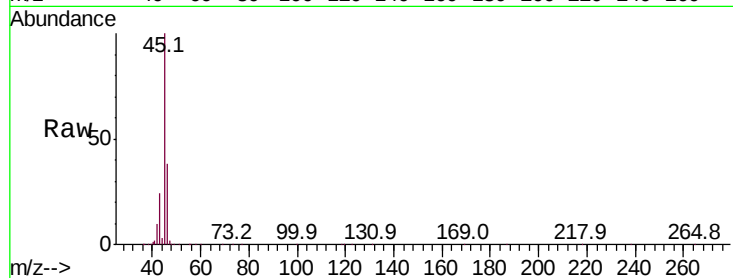
ClientSampleId :

Tot Ion: 45 Resp:13340159

Ion Ratio Lower Upper

45 100

46 38.2 14.2 56.8



#15

Acetone

Concen: 19.994 ppbv

RT: 3.92 min Scan# 305

Delta R.T. -0.02 min

Lab File: VL032579.D

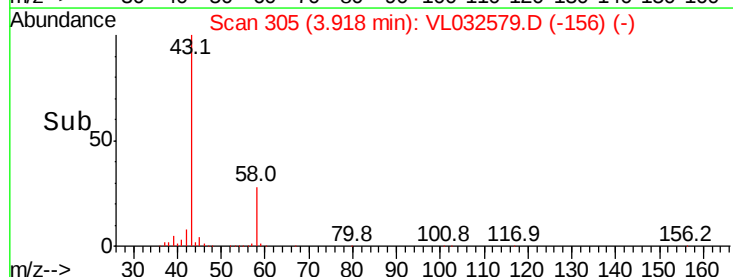
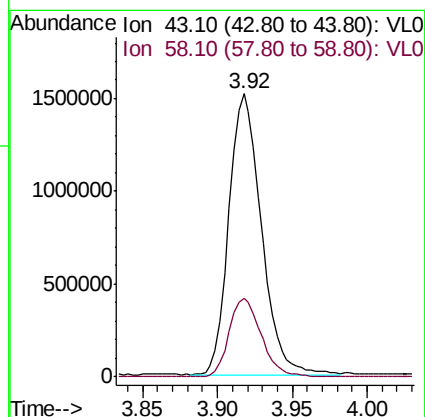
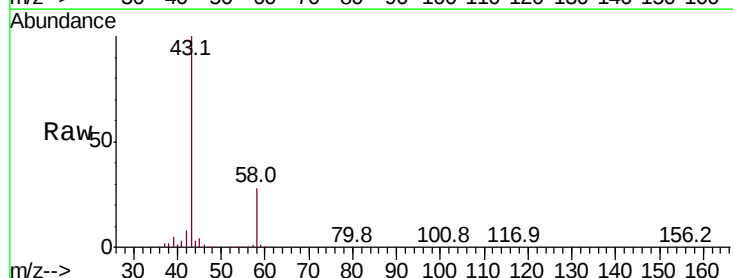
Acq: 28 Sep 2018 11:53

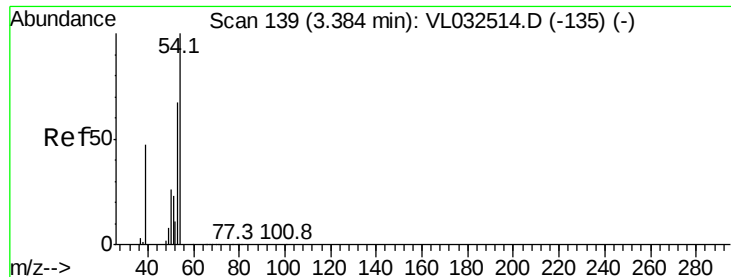
Tgt Ion: 43 Resp: 2284568

Ion Ratio Lower Upper

43 100

58 28.3 22.6 33.8





#16

1,3-Butadiene

Concen: 0.195 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.04 min

Lab File: VL032579.D

Acq: 28 Sep 2018 11:53

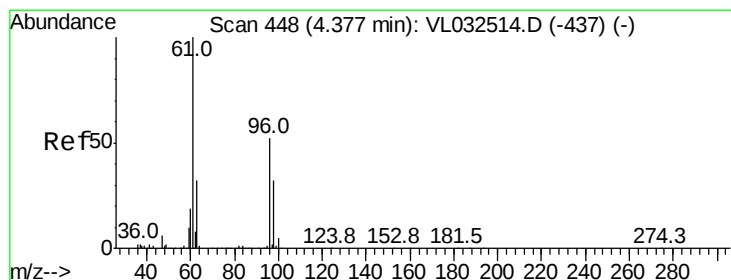
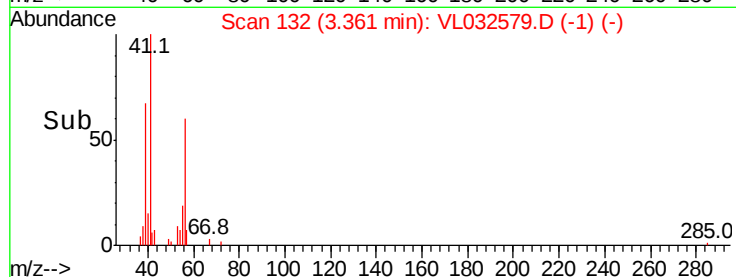
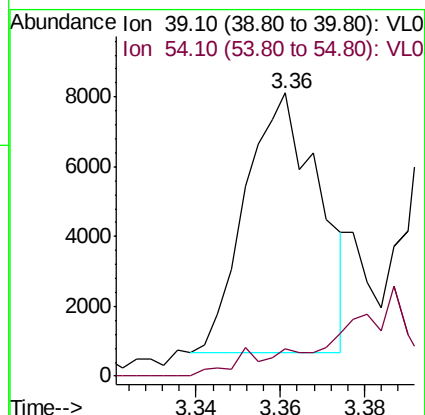
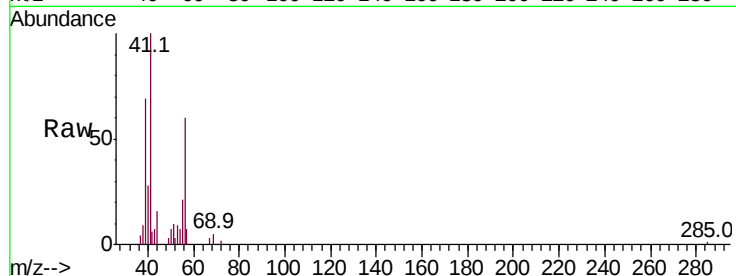
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 39 Resp: 9013

Ion Ratio Lower Upper

39 100

54 33.3 80.8 121.2#



#17

tert-Butyl alcohol

Concen: 0.130 ppbv

RT: 4.39 min Scan# 451

Delta R.T. -0.02 min

Lab File: VL032579.D

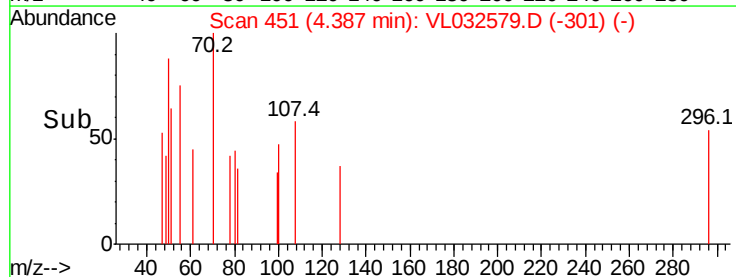
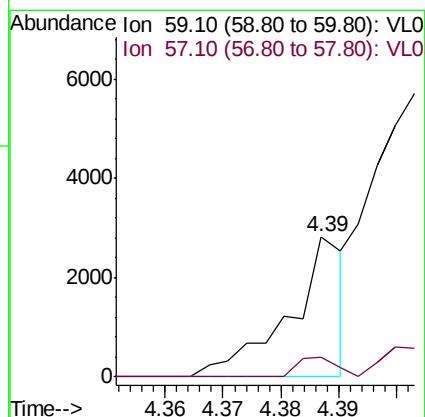
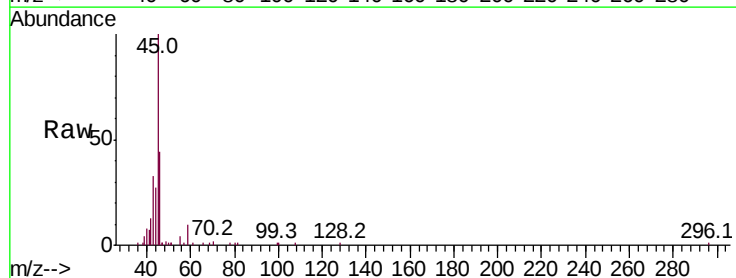
Acq: 28 Sep 2018 11:53

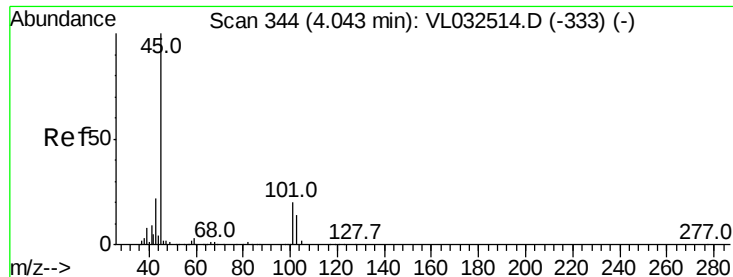
Tgt Ion: 59 Resp: 1870

Ion Ratio Lower Upper

59 100

57 0.0 0.0 0.0





#19

Isopropyl Alcohol

Concen: 4.021 ppbv

RT: 4.08 min Scan# 355

Delta R.T. 0.02 min

Lab File: VL032579.D

Acq: 28 Sep 2018 11:53

Instrument :

MSVOA_L

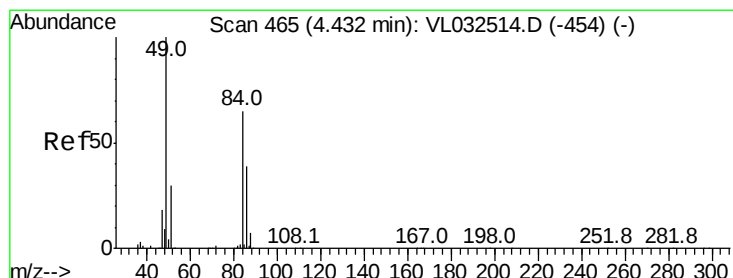
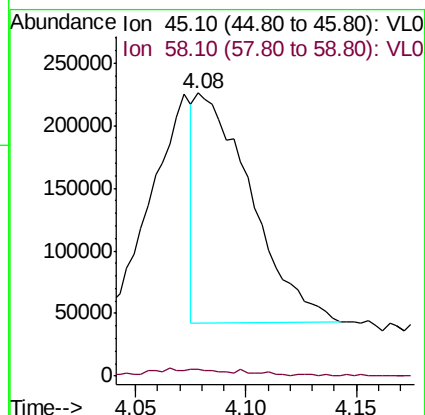
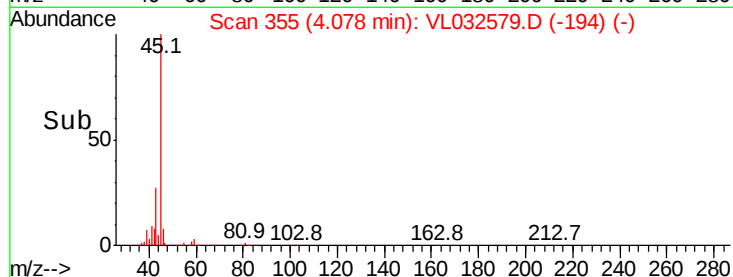
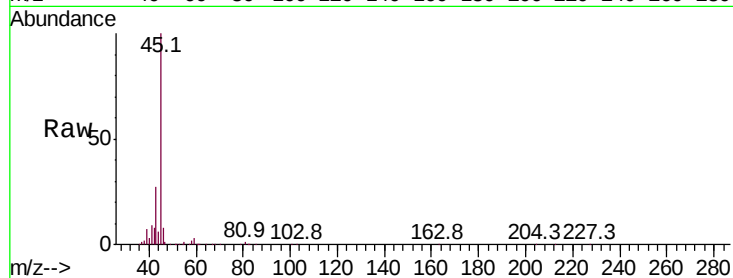
ClientSampled :

Tot Ion: 45 Resp: 320046

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.786 ppbv

RT: 4.43 min Scan# 464

Delta R.T. -0.02 min

Lab File: VL032579.D

Acq: 28 Sep 2018 11:53

Tgt Ion: 84 Resp: 43508

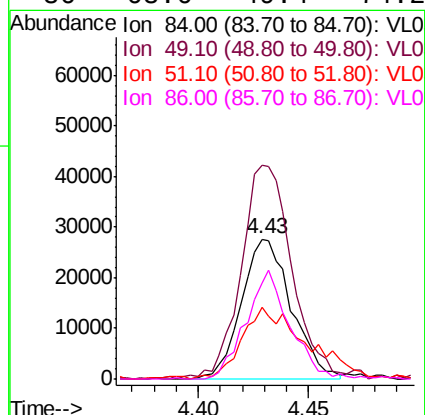
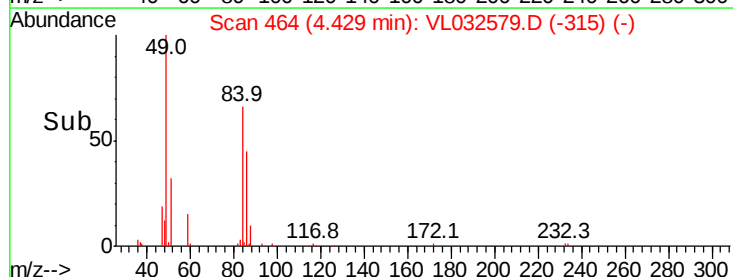
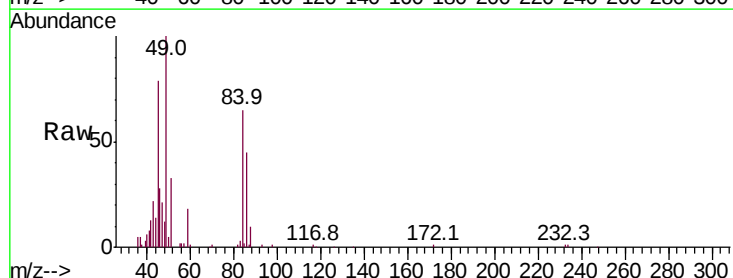
Ion Ratio Lower Upper

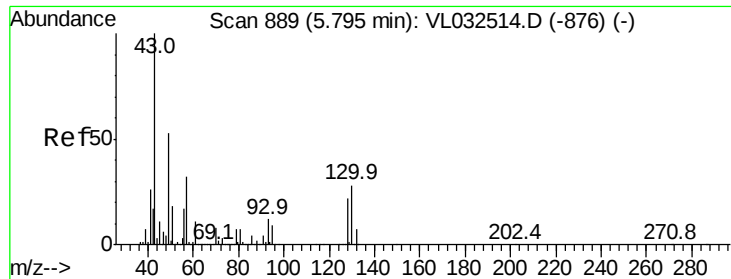
84 100

49 150.3 119.1 178.7

51 50.9 35.2 52.8

86 68.6 49.4 74.2

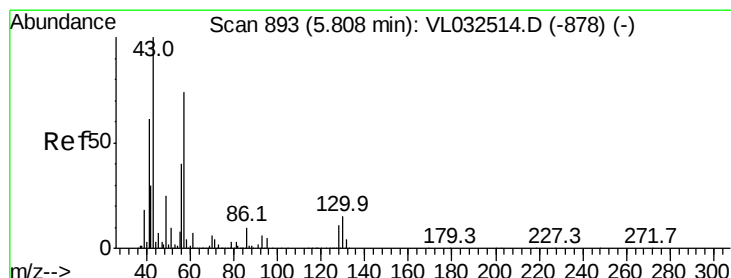
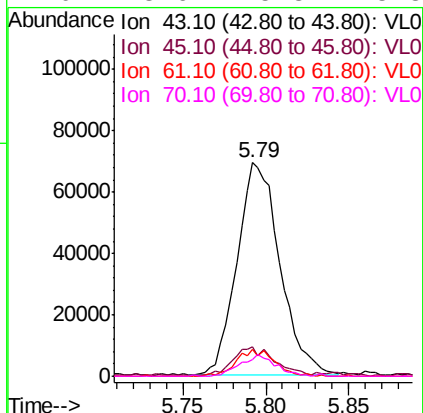
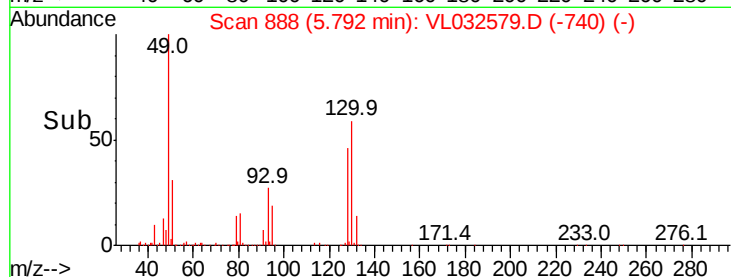
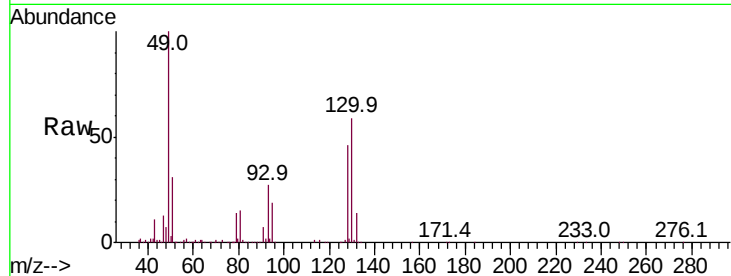




#25
Ethyl Acetate
Concen: 0.445 ppbv
RT: 5.79 min Scan# 888
Delta R.T. -0.02 min
Lab File: VL032579.D
Acq: 28 Sep 2018 11:53

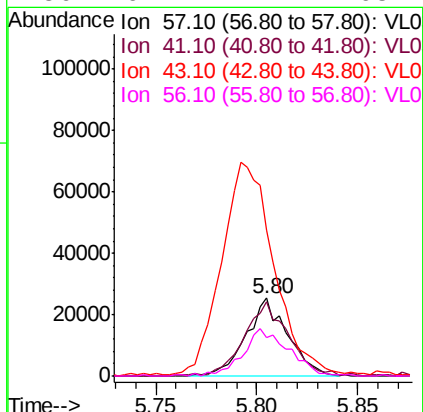
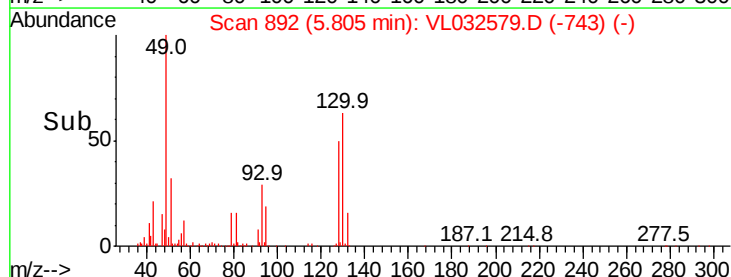
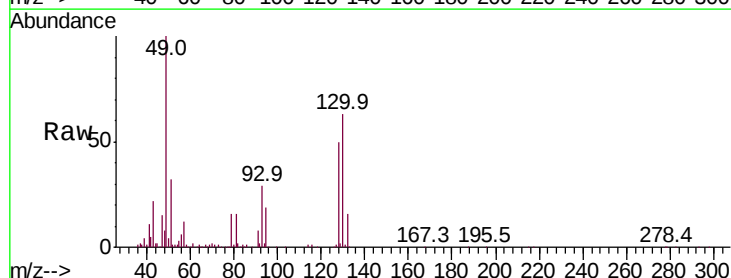
Instrument :
MSVOA_L
ClientSampled :

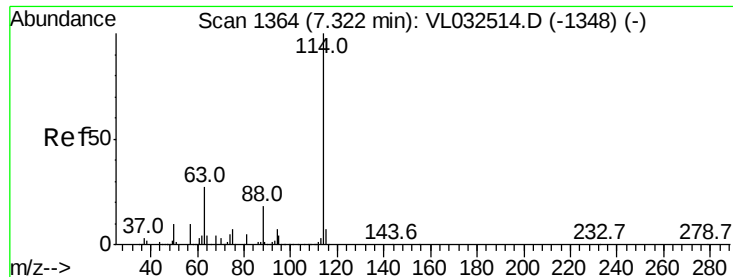
Tot Ion:	43	Resp:	123336
Ion	Ratio	Lower	Upper
43	100		
45	13.4	8.0	12.0#
61	11.7	7.6	11.4#
70	8.6	5.8	8.8



#26
Hexane
Concen: 0.291 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032579.D
Acq: 28 Sep 2018 11:53

Tgt Ion:	57	Resp:	36494
Ion	Ratio	Lower	Upper
57	100		
41	102.9	69.0	103.4
43	348.3	172.1	258.1#
56	67.4	42.2	63.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1363

Delta R.T. -0.03 min

Lab File: VL032579.D

Acq: 28 Sep 2018 11:53

Instrument :

MSVOA_L

ClientSampleId :

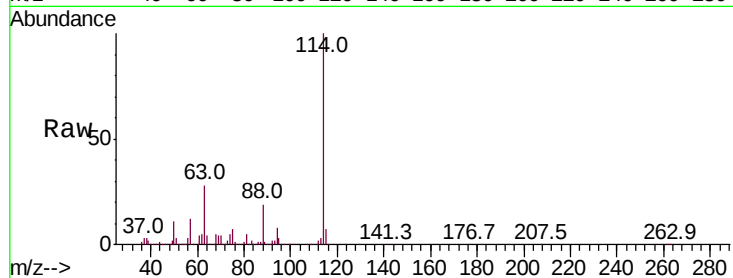
Tot Ion:114 Resp: 2897959

Ion Ratio Lower Upper

114 100

63 27.2 22.2 33.4

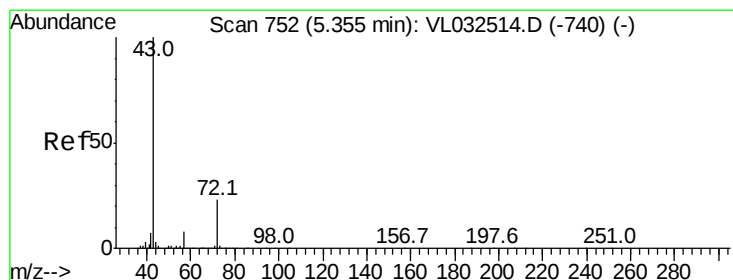
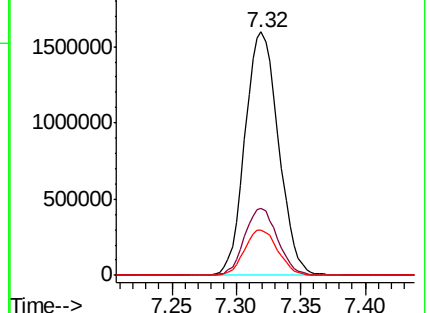
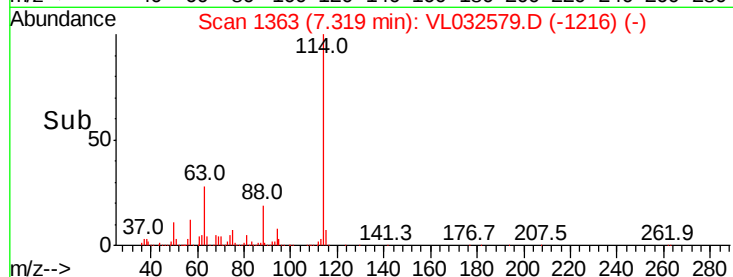
88 18.5 15.0 22.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.518 ppbv

RT: 5.35 min Scan# 751

Delta R.T. -0.02 min

Lab File: VL032579.D

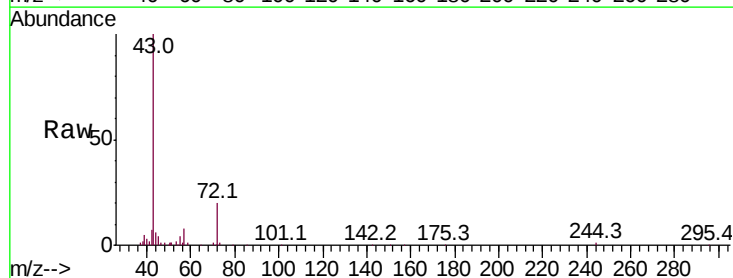
Acq: 28 Sep 2018 11:53

Tgt Ion: 43 Resp: 89343

Ion Ratio Lower Upper

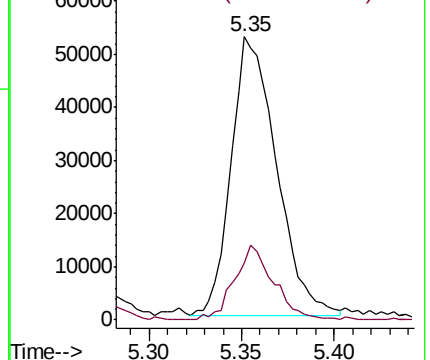
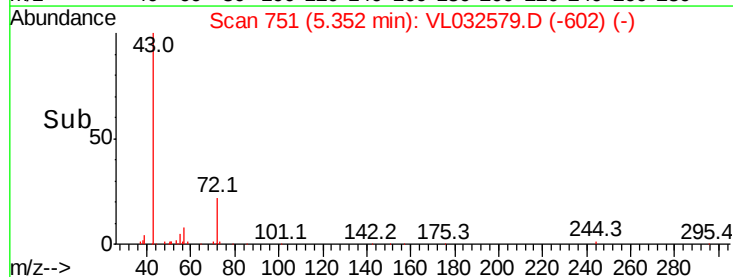
43 100

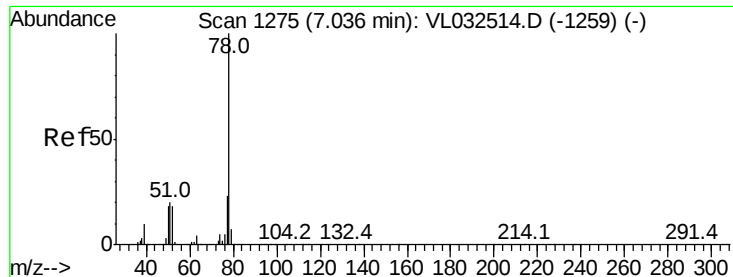
72 23.4 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

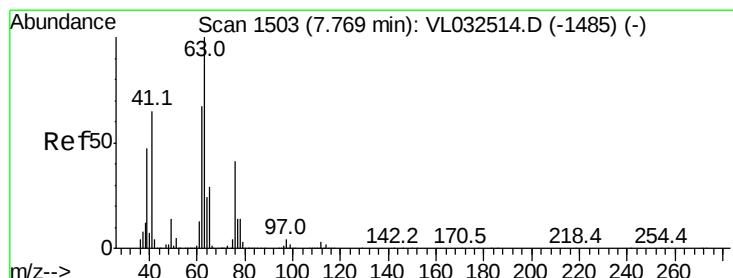
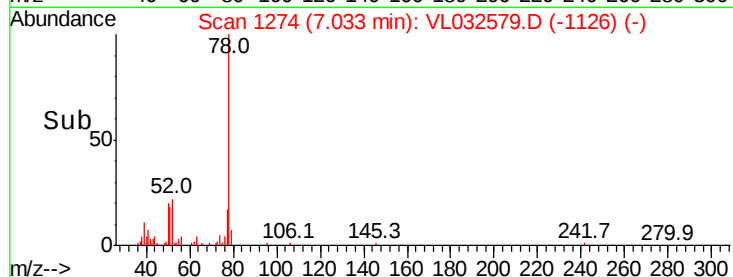
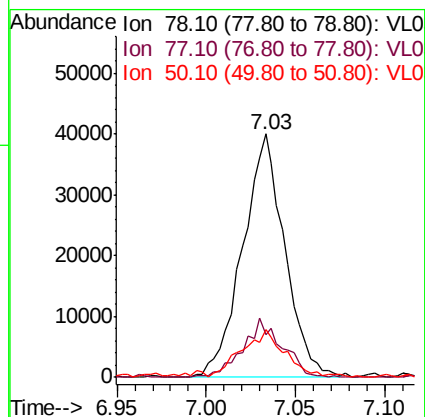
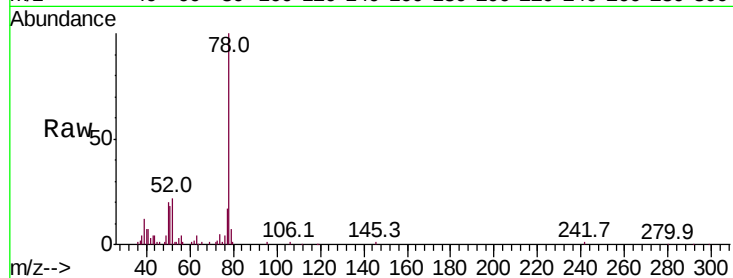




#36
Benzene
Concen: 0.283 ppbv
RT: 7.03 min Scan# 1274
Delta R.T. -0.02 min
Lab File: VL032579.D
Acq: 28 Sep 2018 11:53

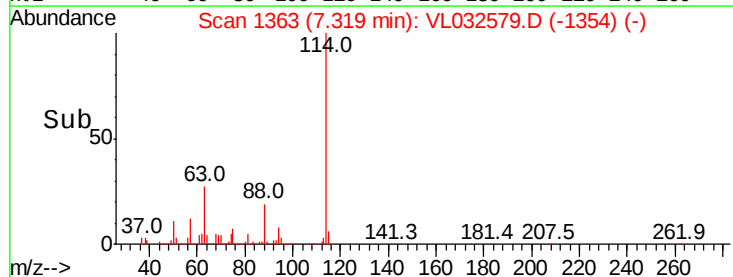
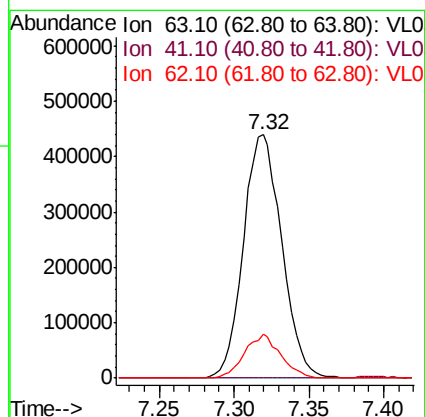
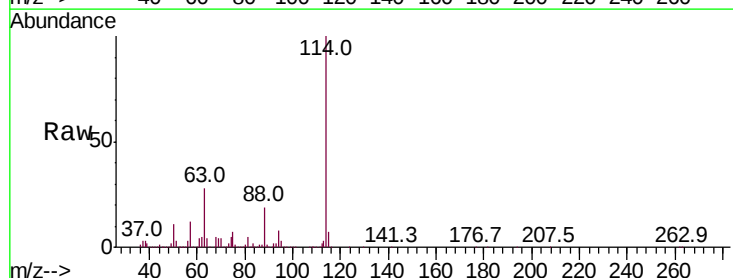
Instrument :
MSVOA_L
ClientSampled :

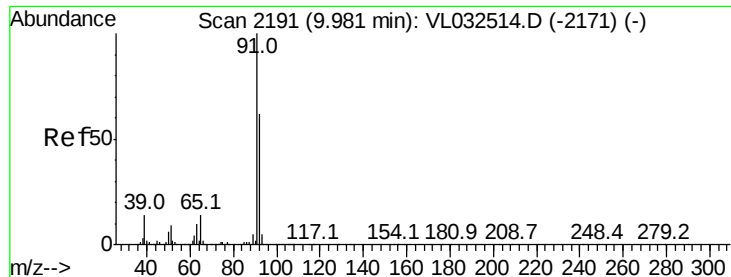
Tot Ion: 78 Resp: 66191
Ion Ratio Lower Upper
78 100
77 17.3 18.4 27.6#
50 19.1 14.4 21.6



#39
1,2-Dichloropropane
Concen: 7.424 ppbv
RT: 7.32 min Scan# 1363
Delta R.T. -0.47 min
Lab File: VL032579.D
Acq: 28 Sep 2018 11:53

Tgt Ion: 63 Resp: 783503
Ion Ratio Lower Upper
63 100
41 0.0 55.4 83.0#
62 17.9 55.4 83.0#





#53

Toluene

Concen: 0.127 ppbv

RT: 9.98 min Scan# 2190

Delta R.T. -0.03 min

Lab File: VL032579.D

Acq: 28 Sep 2018 11:53

Instrument :

MSVOA_L

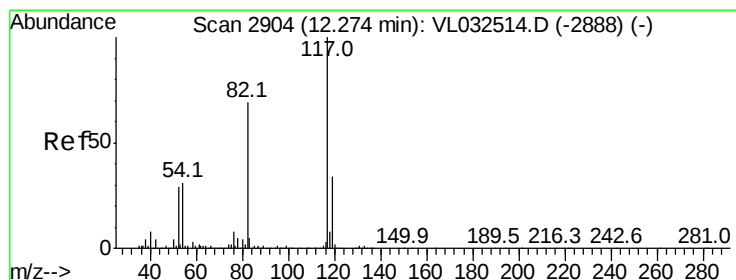
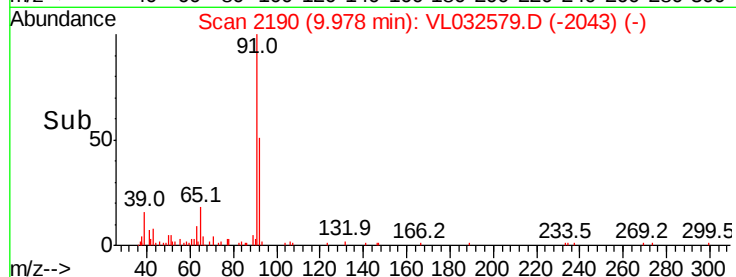
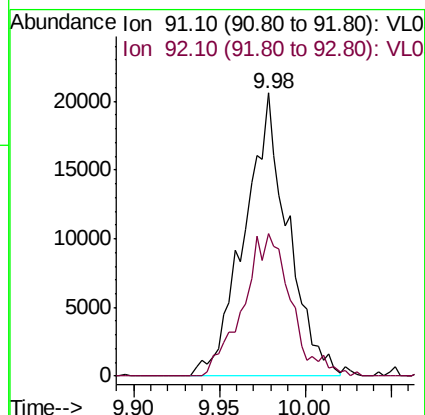
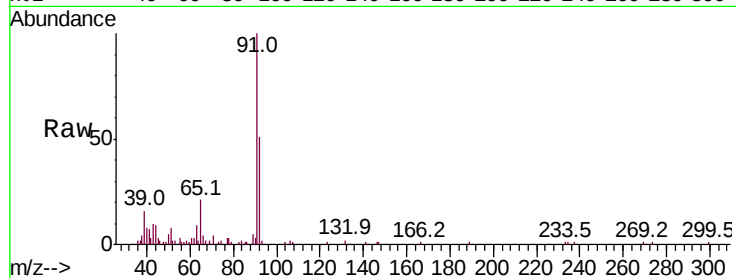
ClientSampleId :

Tot Ion: 91 Resp: 36246

Ion Ratio Lower Upper

91 100

92 55.3 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2904

Delta R.T. -0.02 min

Lab File: VL032579.D

Acq: 28 Sep 2018 11:53

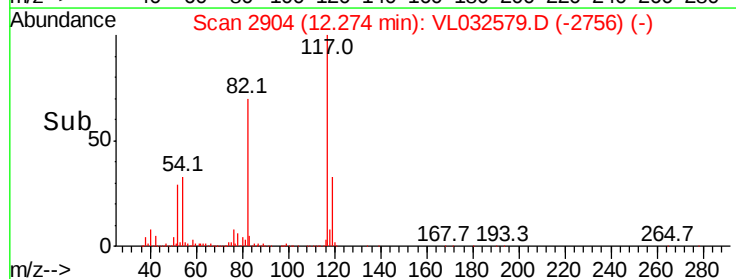
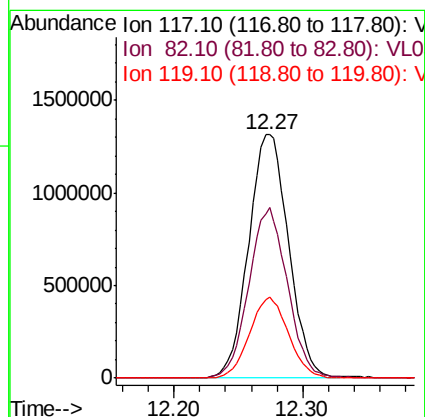
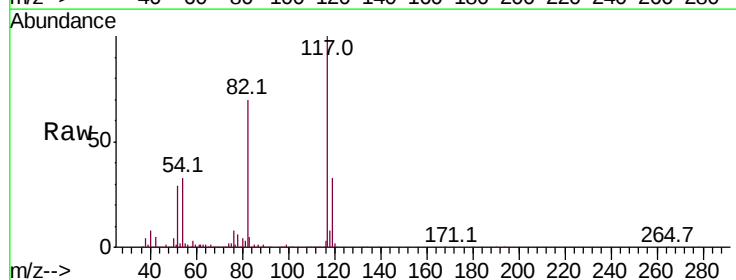
Tgt Ion: 117 Resp: 2840043

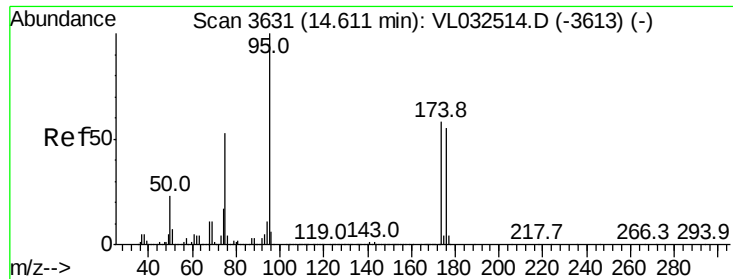
Ion Ratio Lower Upper

117 100

82 67.5 53.0 79.6

119 32.5 45.9 68.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.295 ppbv

RT: 14.61 min Scan# 3630

Delta R.T. -0.03 min

Lab File: VL032579.D

Acq: 28 Sep 2018 11:53

Instrument :

MSVOA_L

ClientSampleId :

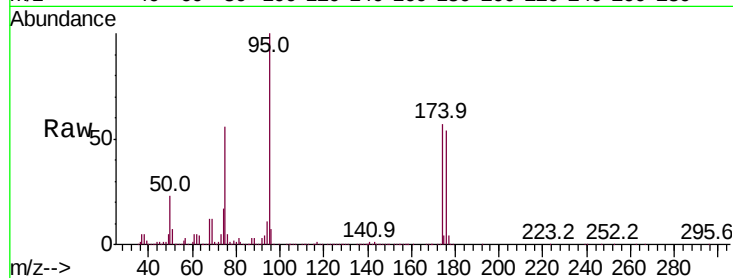
Tot Ion: 95 Resp: 2204827

Ion Ratio Lower Upper

95 100

174 57.6 46.3 69.5

175 4.2 3.4 5.0



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

