

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092718\
 Data File : VL032578.D
 Acq On : 28 Sep 2018 11:14
 Operator : SY/AP
 Sample : J5094-10 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 28 23:12:16 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	1259909	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2847188	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3042727	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2154313	9.39	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.90%

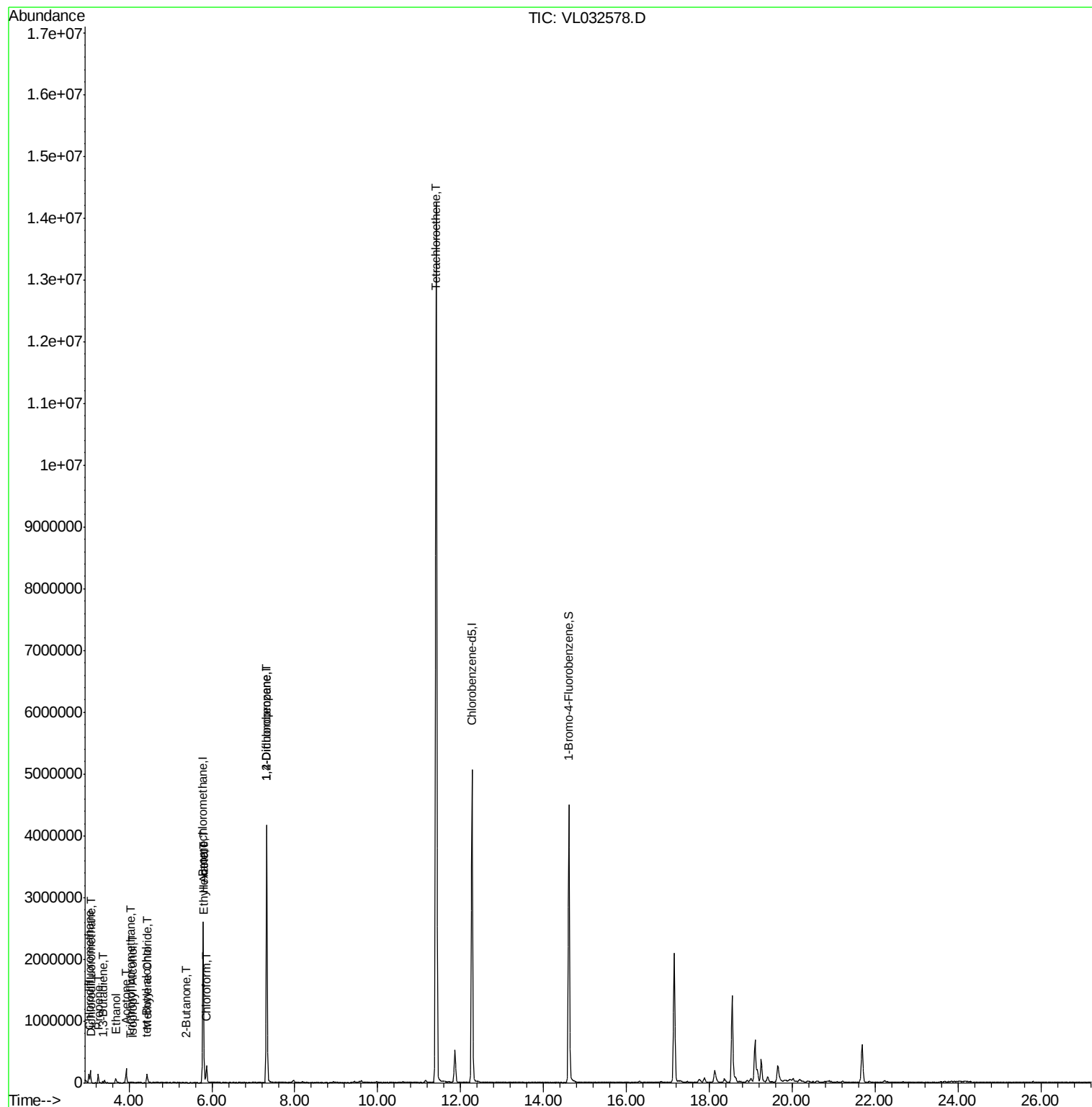
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	9646	0.083	ppbv	100
3) Chlorodifluoromethane	3.03	51	135360	1.292	ppbv	98
9) Propene	3.26	41	33579	0.739	ppbv	92
11) Trichlorofluoromethane	4.03	101	5656	0.041	ppbv #	77
13) Ethanol	3.68	45	70350	5.148	ppbv	98
15) Acetone	3.93	43	232999	2.107	ppbv	97
16) 1,3-Butadiene	3.36	39	7127	0.159	ppbv #	8
17) tert-Butyl alcohol	4.40	59	1181	0.085	ppbv #	100
19) Isopropyl Alcohol	4.07	45	2549	0.033	ppbv #	93
20) Methylene Chloride	4.43	84	40130	0.749	ppbv	91
25) Ethyl Acetate	5.80	43	11521	0.043	ppbv #	87
26) Hexane	5.80	57	7676	0.063	ppbv #	1
29) Chloroform	5.87	83	179776	0.967	ppbv	95
34) 2-Butanone	5.37	43	8514	0.050	ppbv	91
39) 1,2-Dichloropropane	7.32	63	768221	7.409	ppbv #	24
52) Tetrachloroethene	11.41	164	3609473	45.053	ppbv	100

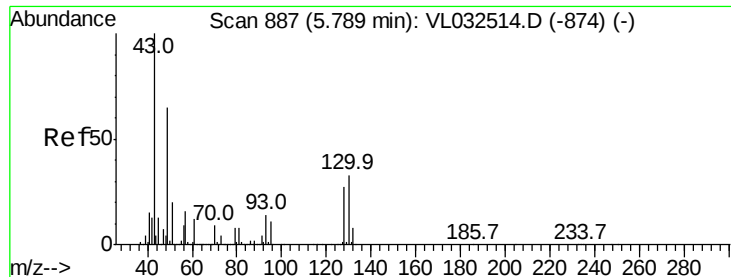
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 25 05:17:15 2018
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032578.D

Acq: 28 Sep 2018 11:14

Instrument :

MSVOA_L

ClientSampleId :

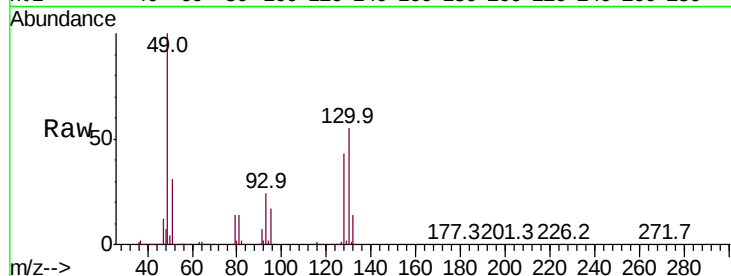
Tot Ion: 49 Resp: 1259909

Ion Ratio Lower Upper

49 100

128 44.8 20.7 62.1

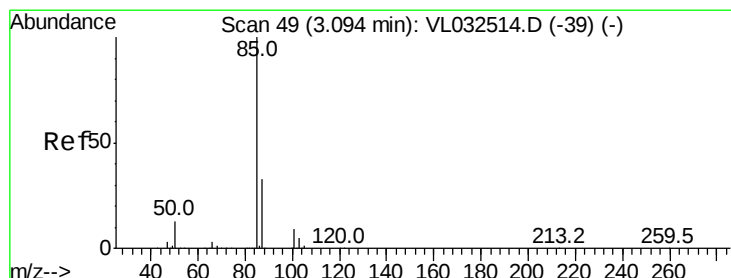
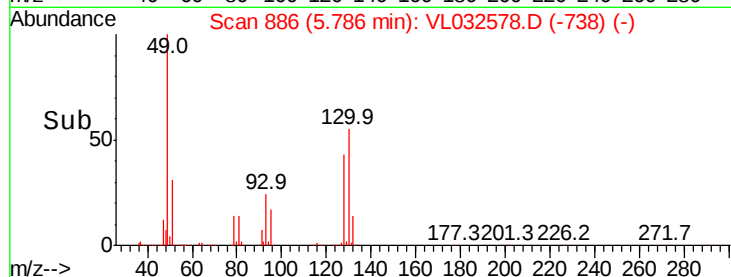
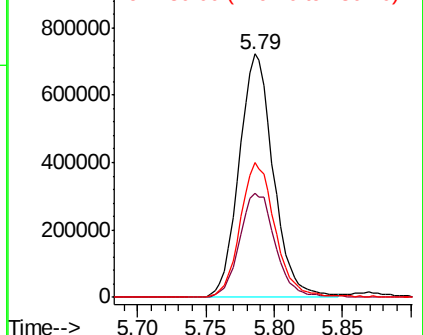
130 56.5 26.6 79.7



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: 0.083 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL032578.D

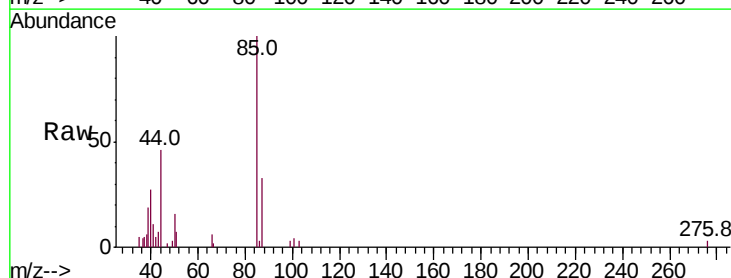
Acq: 28 Sep 2018 11:14

Tgt Ion: 85 Resp: 9646

Ion Ratio Lower Upper

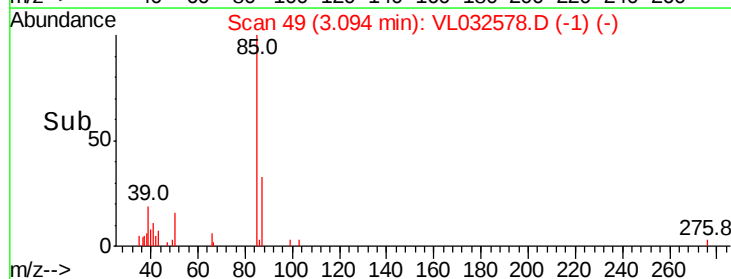
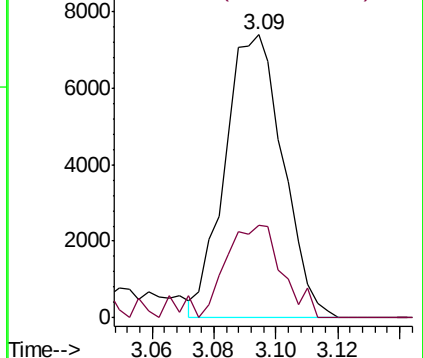
85 100

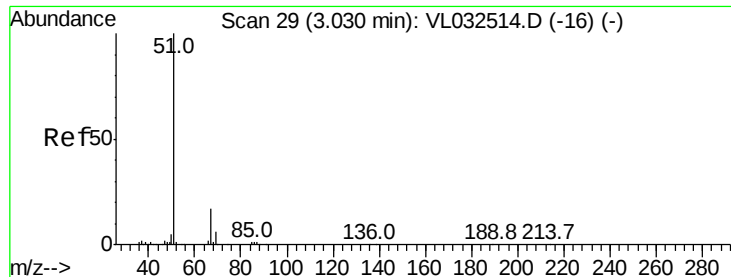
87 32.7 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.292 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032578.D

Acq: 28 Sep 2018 11:14

Instrument :

MSVOA_L

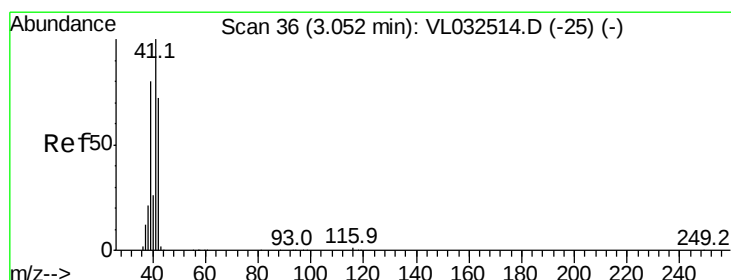
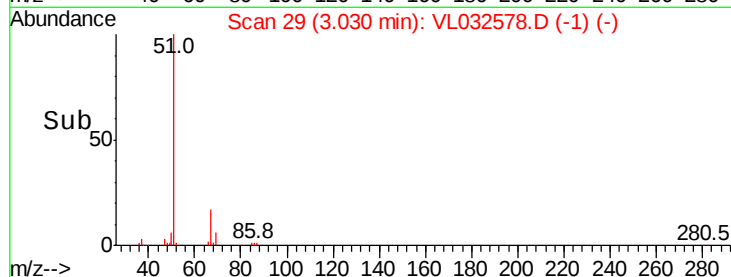
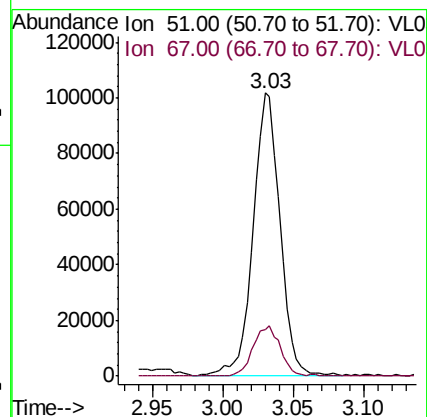
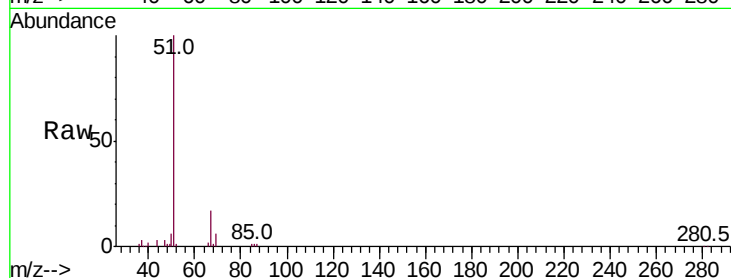
ClientSampleId :

Tot Ion: 51 Resp: 135360

Ion Ratio Lower Upper

51 100

67 18.2 13.8 20.8



#9

Propene

Concen: 0.739 ppbv

RT: 3.26 min Scan# 99

Delta R.T. 0.19 min

Lab File: VL032578.D

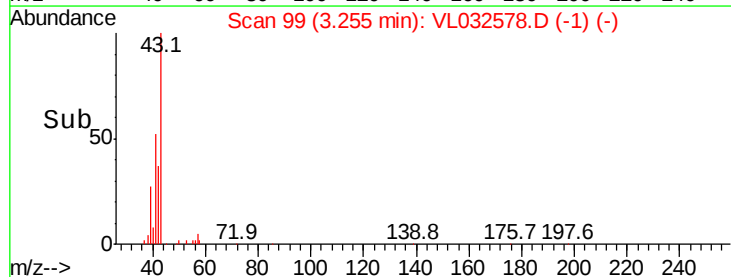
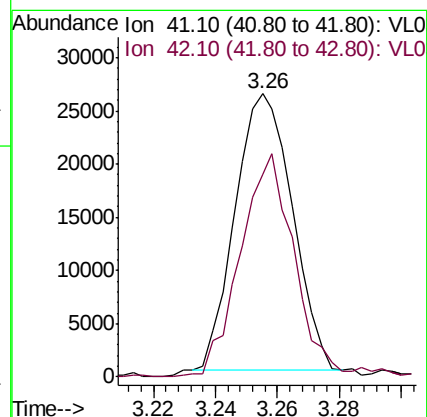
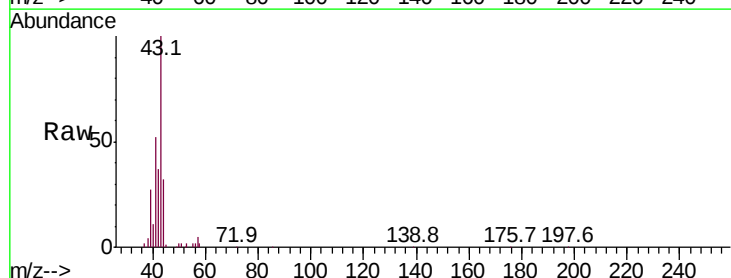
Acq: 28 Sep 2018 11:14

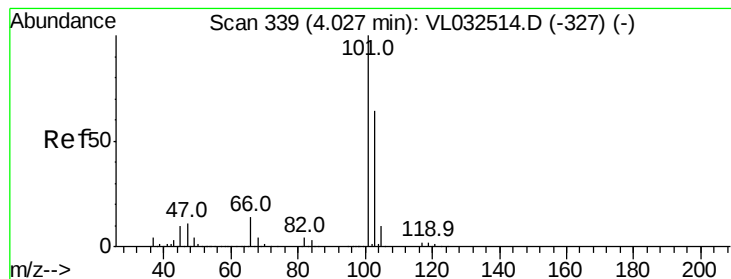
Tgt Ion: 41 Resp: 33579

Ion Ratio Lower Upper

41 100

42 77.2 56.6 84.8





#11

Trichlorofluoromethane

Concen: 0.041 ppbv

RT: 4.03 min Scan# 339

Delta R.T. -0.01 min

Lab File: VL032578.D

Acq: 28 Sep 2018 11:14

Instrument :

MSVOA_L

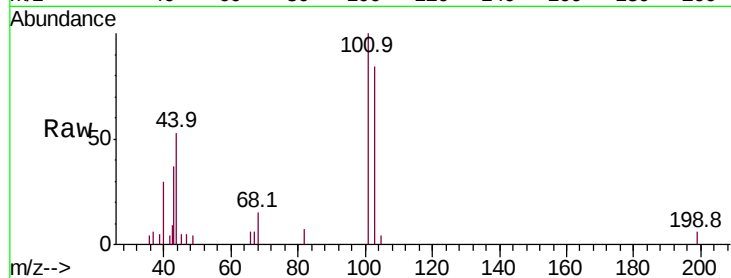
ClientSampleId :

Tot Ion:101 Resp: 5656

Ion Ratio Lower Upper

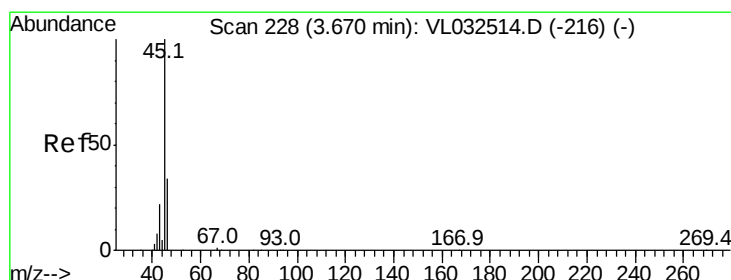
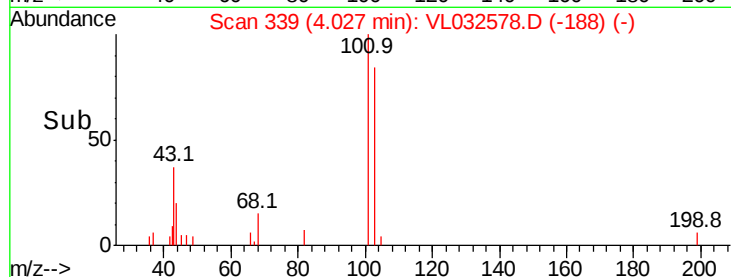
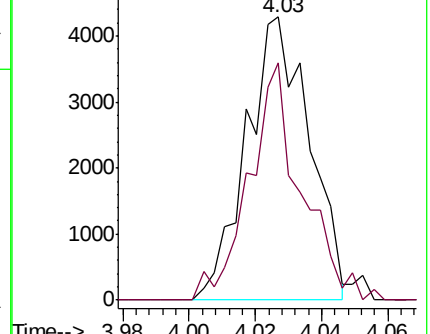
101 100

103 84.0 52.8 79.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 5.148 ppbv

RT: 3.68 min Scan# 231

Delta R.T. -0.01 min

Lab File: VL032578.D

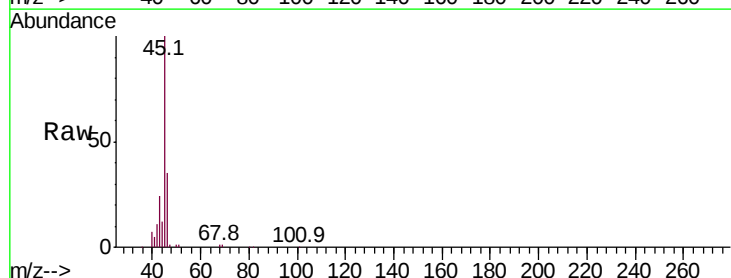
Acq: 28 Sep 2018 11:14

Tgt Ion: 45 Resp: 70350

Ion Ratio Lower Upper

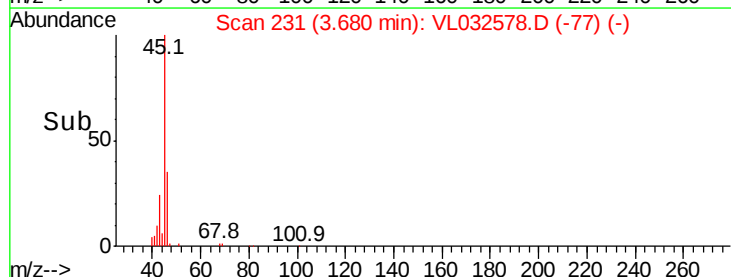
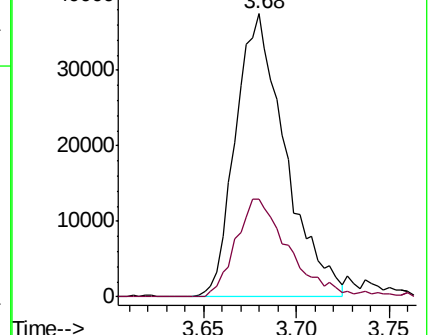
45 100

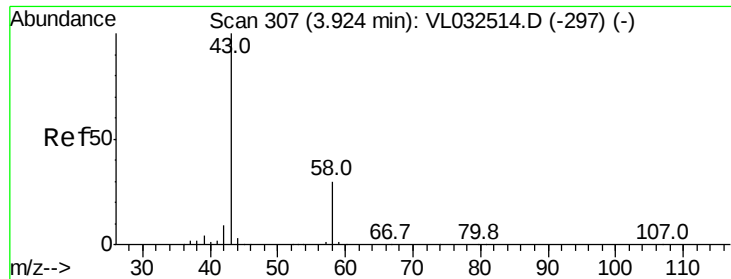
46 36.5 14.2 56.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 2.107 ppbv

RT: 3.93 min Scan# 309

Delta R.T. -0.01 min

Lab File: VL032578.D

Acq: 28 Sep 2018 11:14

Instrument :

MSVOA_L

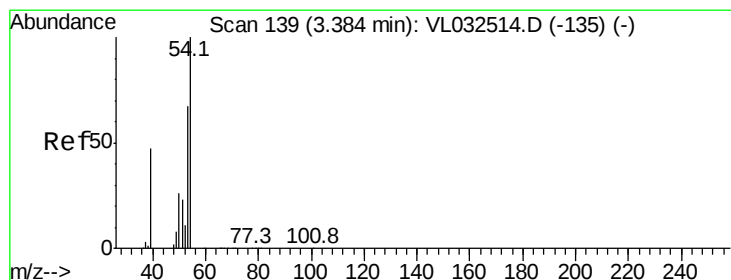
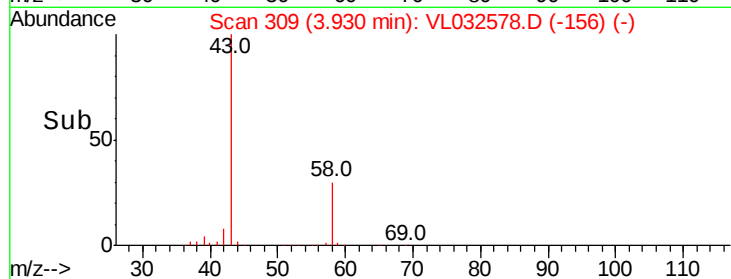
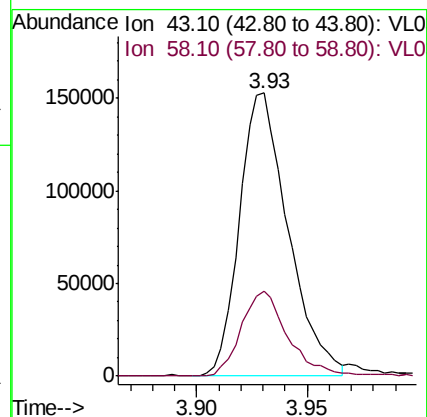
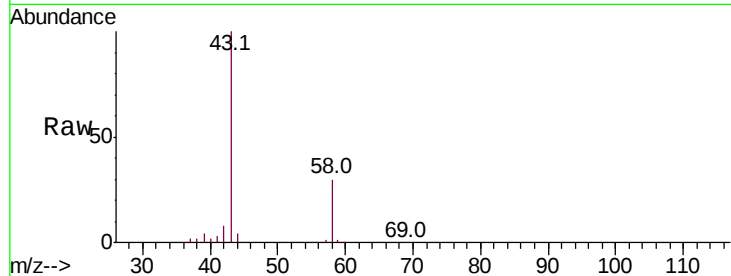
ClientSampleId :

Tot Ion: 43 Resp: 232999

Ion Ratio Lower Upper

43 100

58 29.7 22.6 33.8



#16

1,3-Butadiene

Concen: 0.159 ppbv

RT: 3.36 min Scan# 133

Delta R.T. -0.03 min

Lab File: VL032578.D

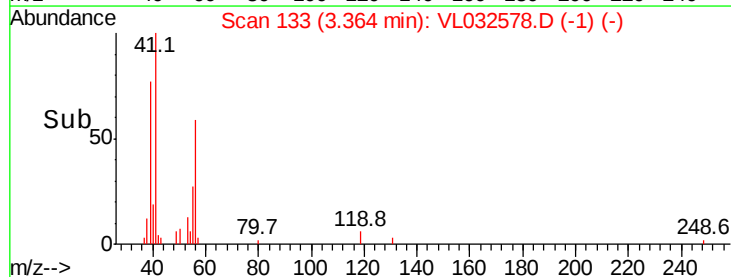
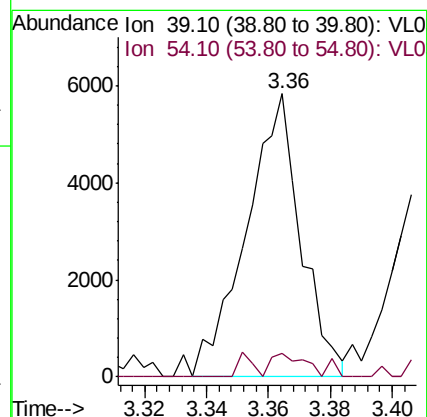
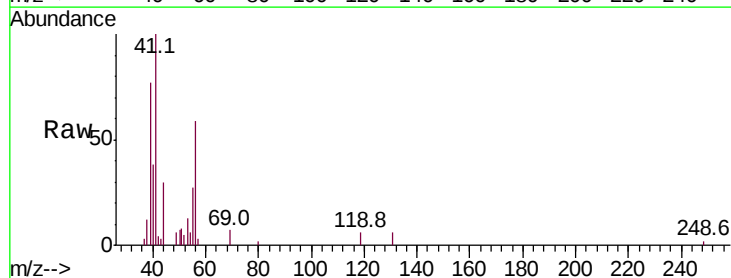
Acq: 28 Sep 2018 11:14

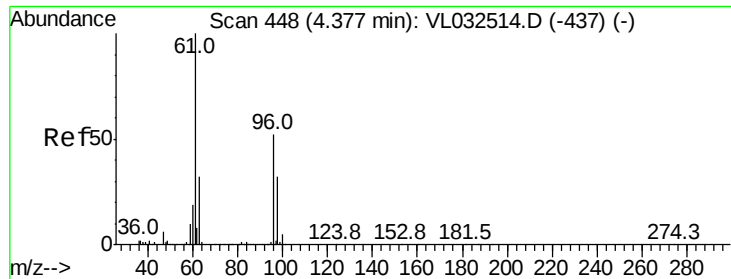
Tgt Ion: 39 Resp: 7127

Ion Ratio Lower Upper

39 100

54 8.2 80.8 121.2#



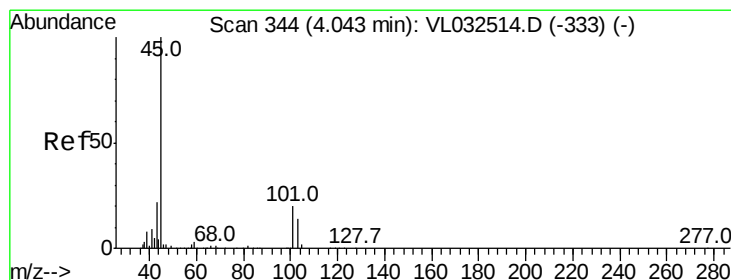
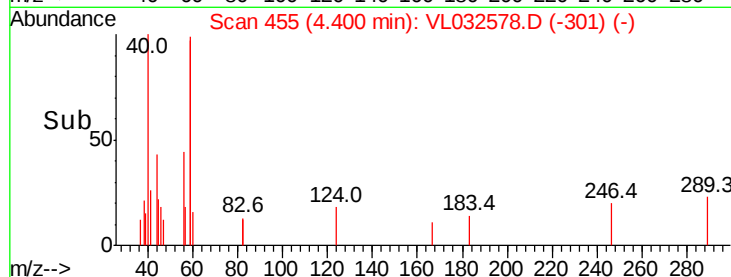
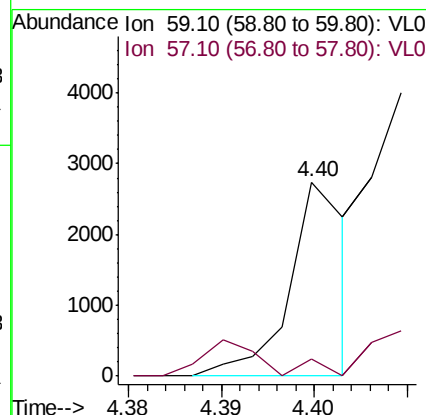
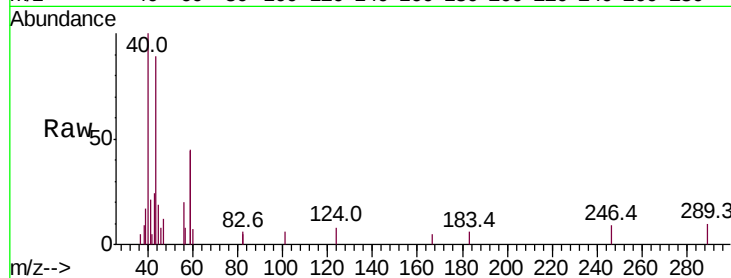


#17

tert-Butyl alcohol
Concen: 0.085 ppbv
RT: 4.40 min Scan# 455
Delta R.T. -0.01 min
Lab File: VL032578.D
Acq: 28 Sep 2018 11:14

Instrument :
MSVOA_L
ClientSampleId :

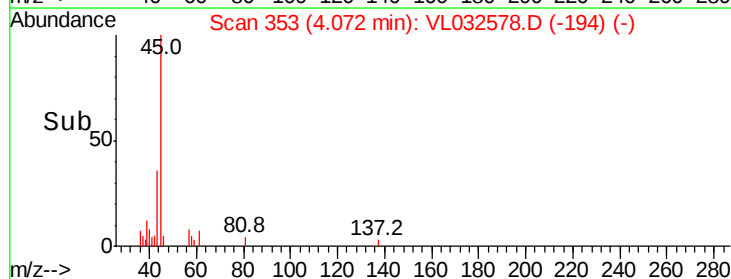
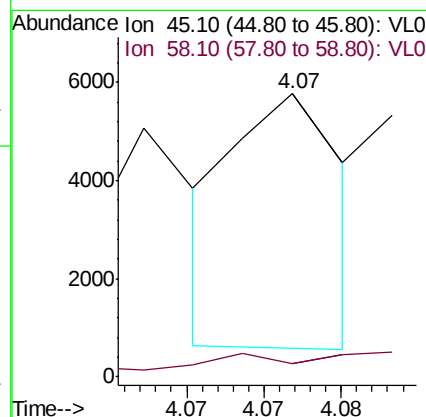
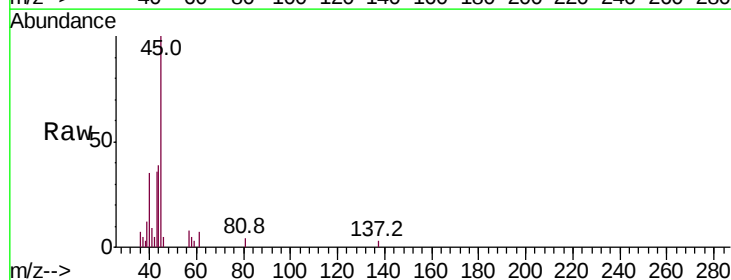
Tot Ion: 59 Resp: 1181
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0

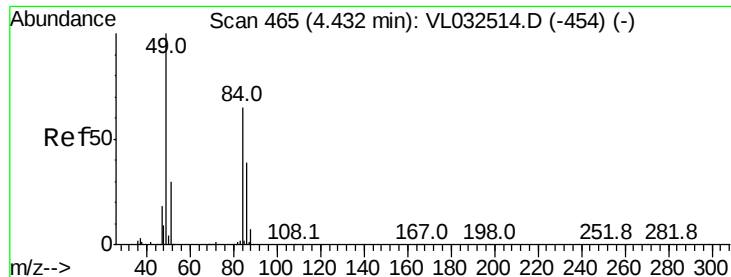


#19

Isopropyl Alcohol
Concen: 0.033 ppbv
RT: 4.07 min Scan# 353
Delta R.T. 0.01 min
Lab File: VL032578.D
Acq: 28 Sep 2018 11:14

Tgt Ion: 45 Resp: 2549
Ion Ratio Lower Upper
45 100
58 0.0 2.0 3.0#





#20

Methylene Chloride

Concen: 0.749 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.02 min

Lab File: VL032578.D

Acq: 28 Sep 2018 11:14

Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 84 Resp: 40130

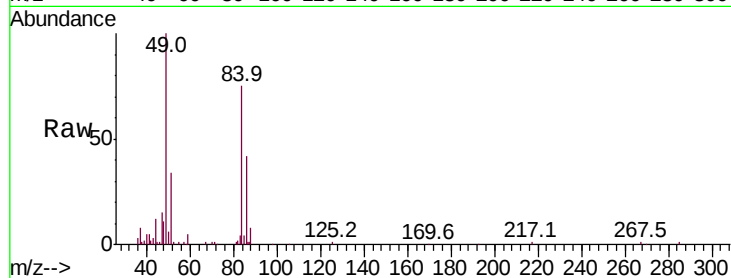
Ion Ratio Lower Upper

84 100

49 134.0 119.1 178.7

51 45.2 35.2 52.8

86 56.1 49.4 74.2

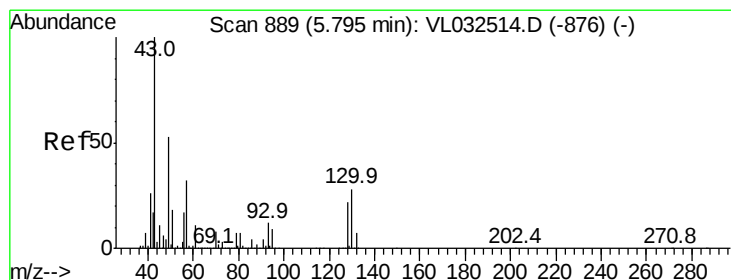
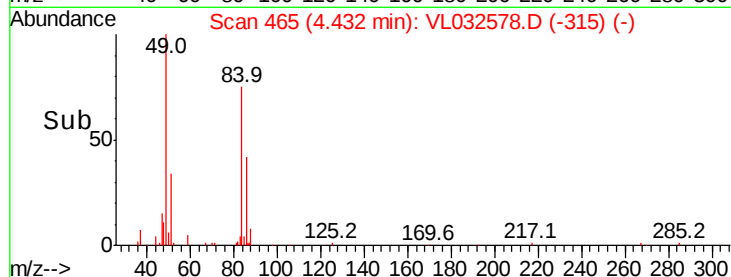
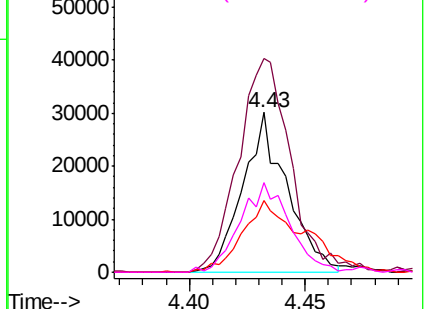


Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.043 ppbv

RT: 5.80 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL032578.D

Acq: 28 Sep 2018 11:14

Tgt Ion: 43 Resp: 11521

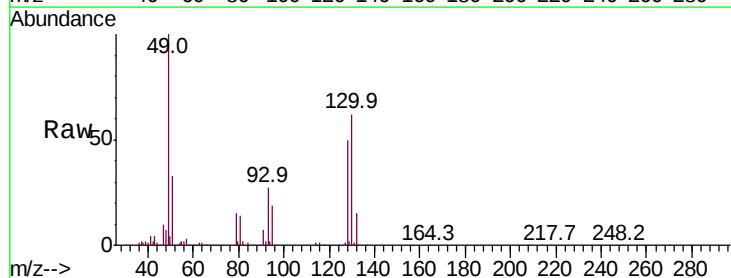
Ion Ratio Lower Upper

43 100

45 10.1 8.0 12.0

61 0.0 7.6 11.4#

70 2.5 5.8 8.8#

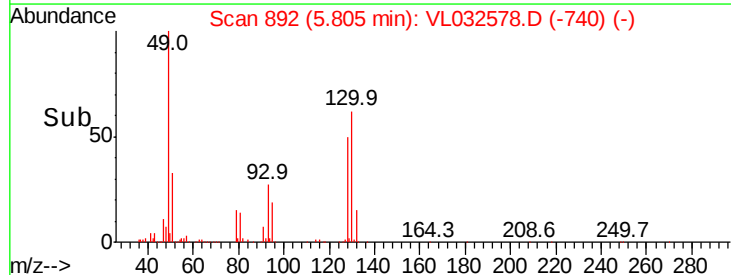
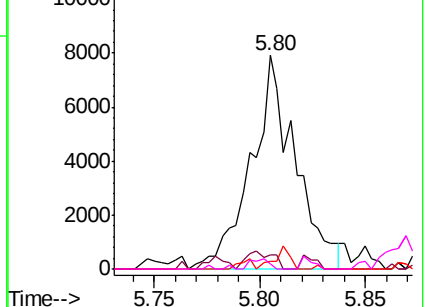


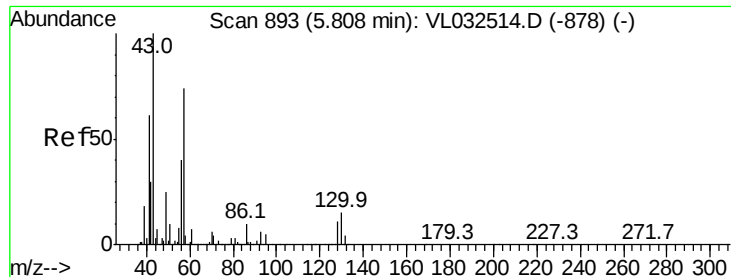
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.063 ppbv

RT: 5.80 min Scan# 891

Delta R.T. -0.02 min

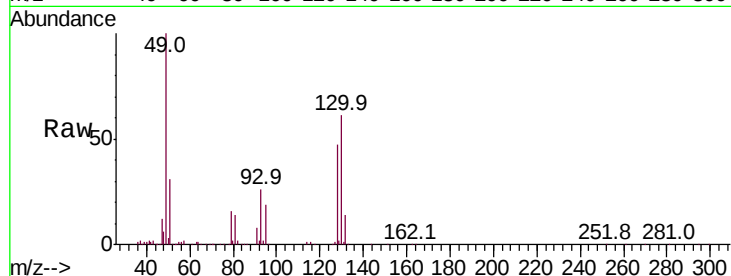
Lab File: VL032578.D

Acq: 28 Sep 2018 11:14

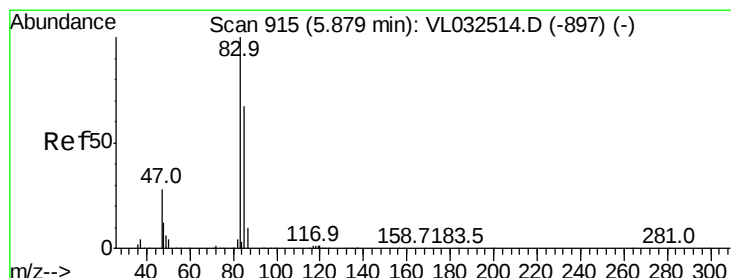
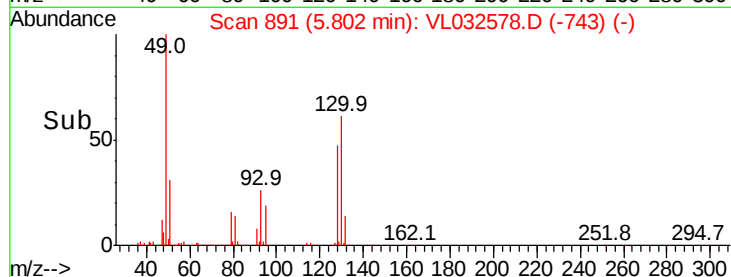
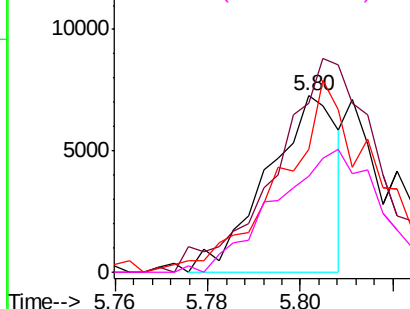
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 7676

Ion	Ratio	Lower	Upper
57	100		
41	0.0	69.0	103.4#
43	0.0	172.1	258.1#
56	0.0	42.2	63.2#



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



#29

Chloroform

Concen: 0.967 ppbv

RT: 5.87 min Scan# 913

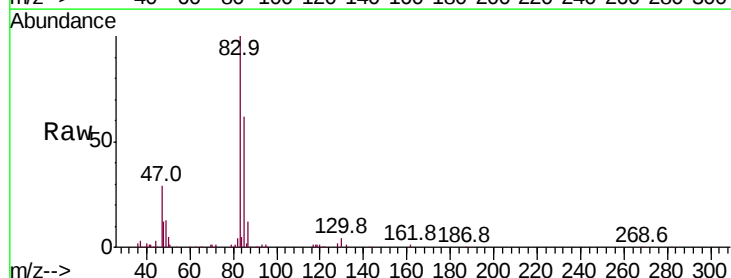
Delta R.T. -0.02 min

Lab File: VL032578.D

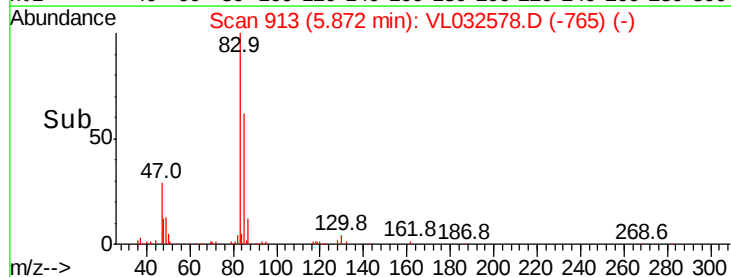
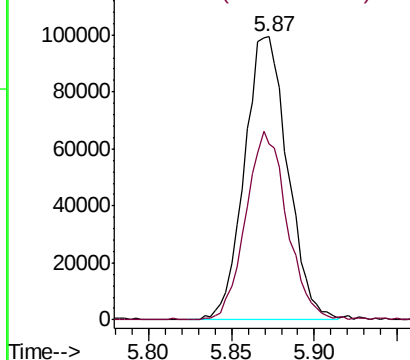
Acq: 28 Sep 2018 11:14

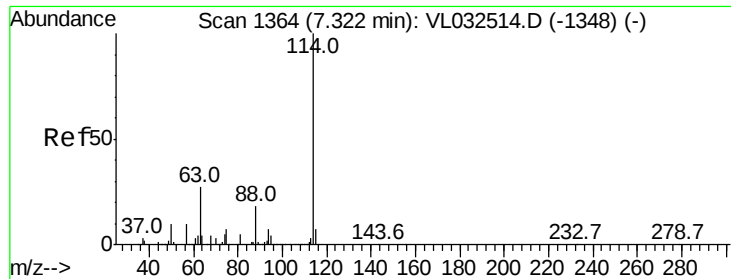
Tgt Ion: 83 Resp: 179776

Ion	Ratio	Lower	Upper
83	100		
85	61.7	52.5	78.7



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0

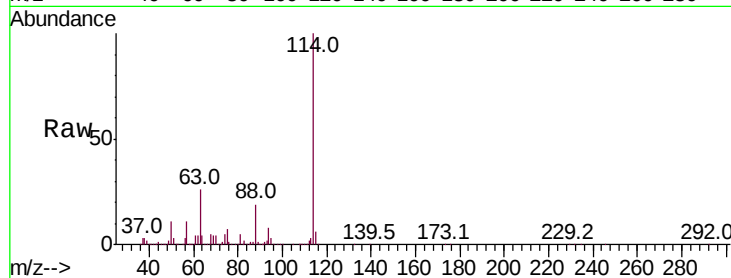




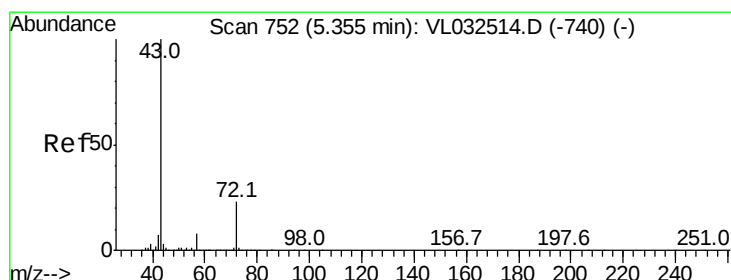
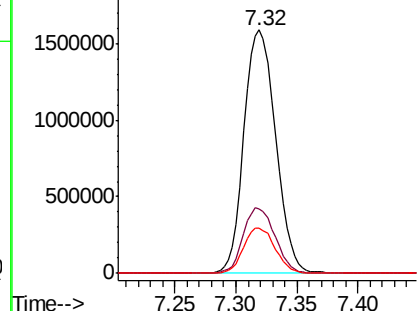
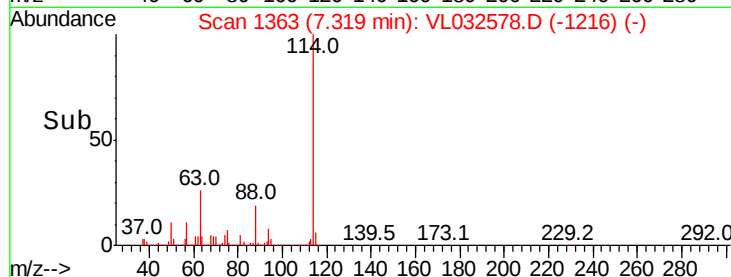
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.03 min
 Lab File: VL032578.D
 Acq: 28 Sep 2018 11:14

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 2847188
 Ion Ratio Lower Upper
 114 100
 63 27.2 22.2 33.4
 88 18.5 15.0 22.4

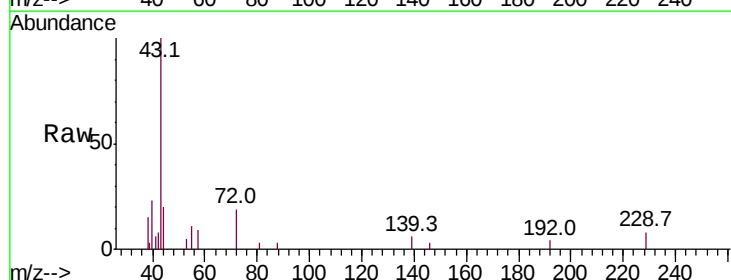


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

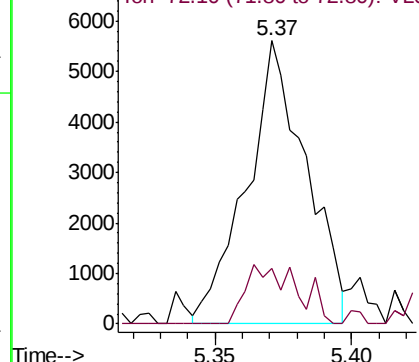
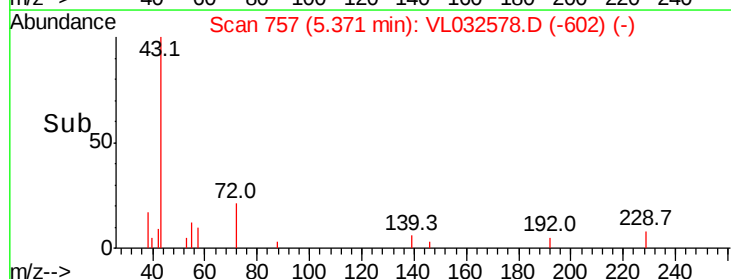


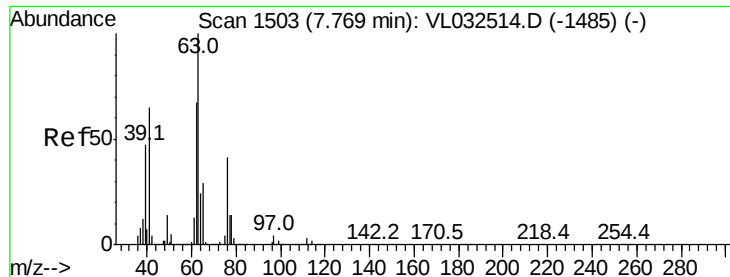
#34
 2-Butanone
 Concen: 0.050 ppbv
 RT: 5.37 min Scan# 757
 Delta R.T. -0.00 min
 Lab File: VL032578.D
 Acq: 28 Sep 2018 11:14

Tgt Ion: 43 Resp: 8514
 Ion Ratio Lower Upper
 43 100
 72 17.9 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 7.409 ppbv

RT: 7.32 min Scan# 1362

Delta R.T. -0.47 min

Lab File: VL032578.D

Acq: 28 Sep 2018 11:14

Instrument :

MSVOA_L

ClientSampleId :

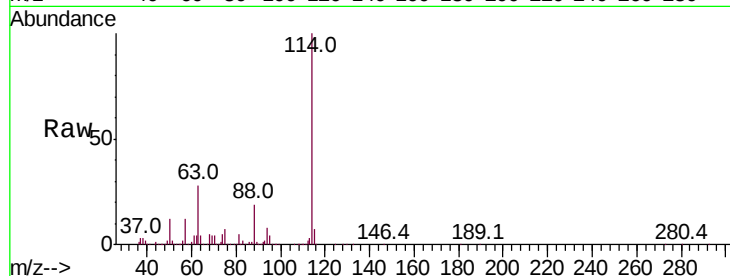
Tot Ion: 63 Resp: 768221

Ion Ratio Lower Upper

63 100

41 0.1 55.4 83.0#

62 14.7 55.4 83.0#

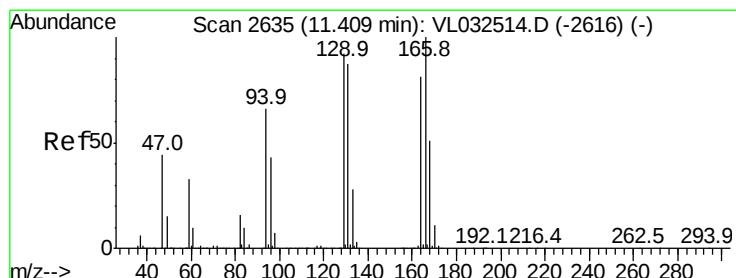
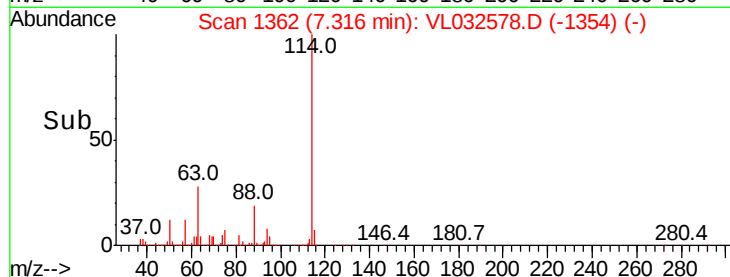
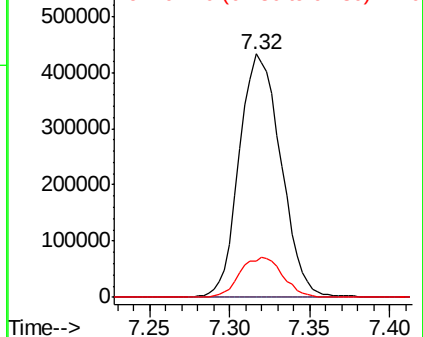


Abundance

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



#52

Tetrachloroethene

Concen: 45.053 ppbv

RT: 11.41 min Scan# 2636

Delta R.T. -0.02 min

Lab File: VL032578.D

Acq: 28 Sep 2018 11:14

Tgt Ion: 164 Resp: 3609473

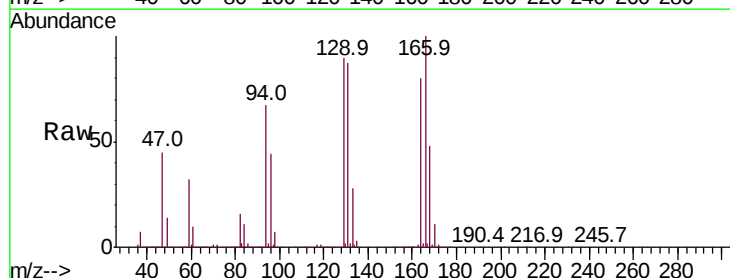
Ion Ratio Lower Upper

164 100

166 125.1 100.6 150.8

129 112.4 89.9 134.9

131 108.3 85.9 128.9



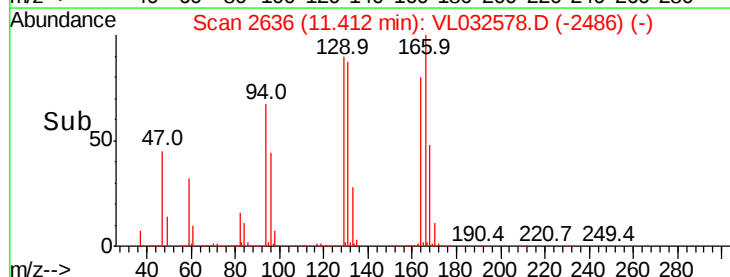
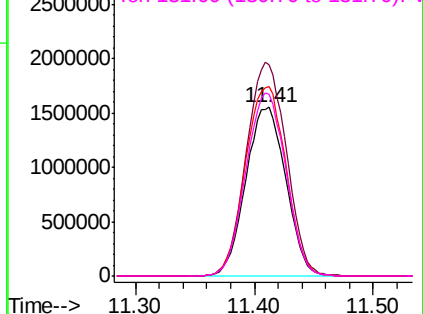
Abundance

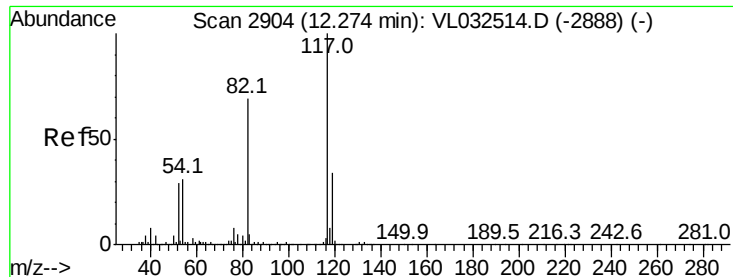
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

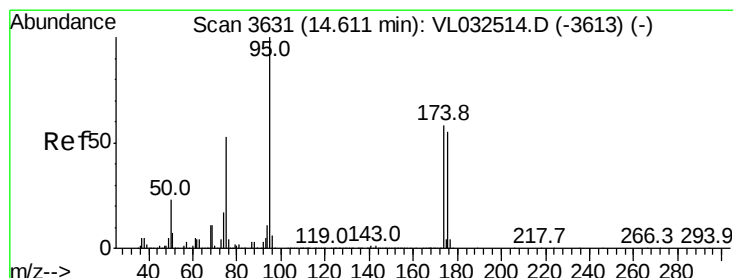
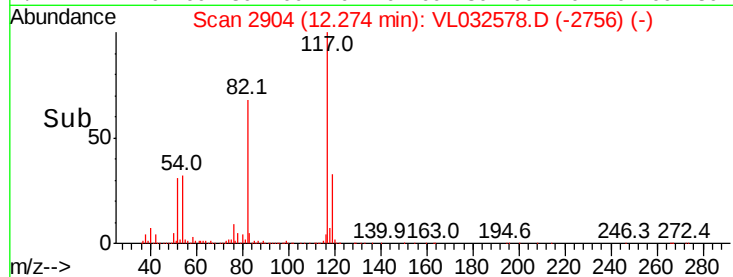
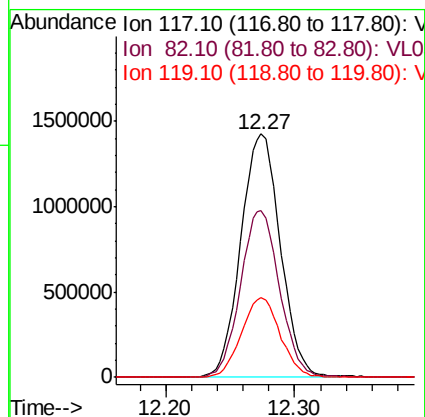
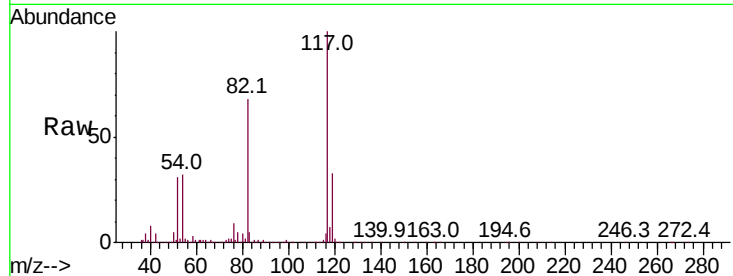




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.02 min
Lab File: VL032578.D
Acq: 28 Sep 2018 11:14

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3042727
Ion Ratio Lower Upper
117 100
82 68.3 53.0 79.6
119 32.4 45.9 68.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.389 ppbv
RT: 14.61 min Scan# 3630
Delta R.T. -0.03 min
Lab File: VL032578.D
Acq: 28 Sep 2018 11:14

Tgt Ion: 95 Resp: 2154313
Ion Ratio Lower Upper
95 100
174 58.5 46.3 69.5
175 4.2 3.4 5.0

