

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032789.D
 Acq On : 20 Nov 2018 22:04
 Operator : SY/AP
 Sample : J5961-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 21 04:08:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1342384	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3353885	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3030075	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2229377	9.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

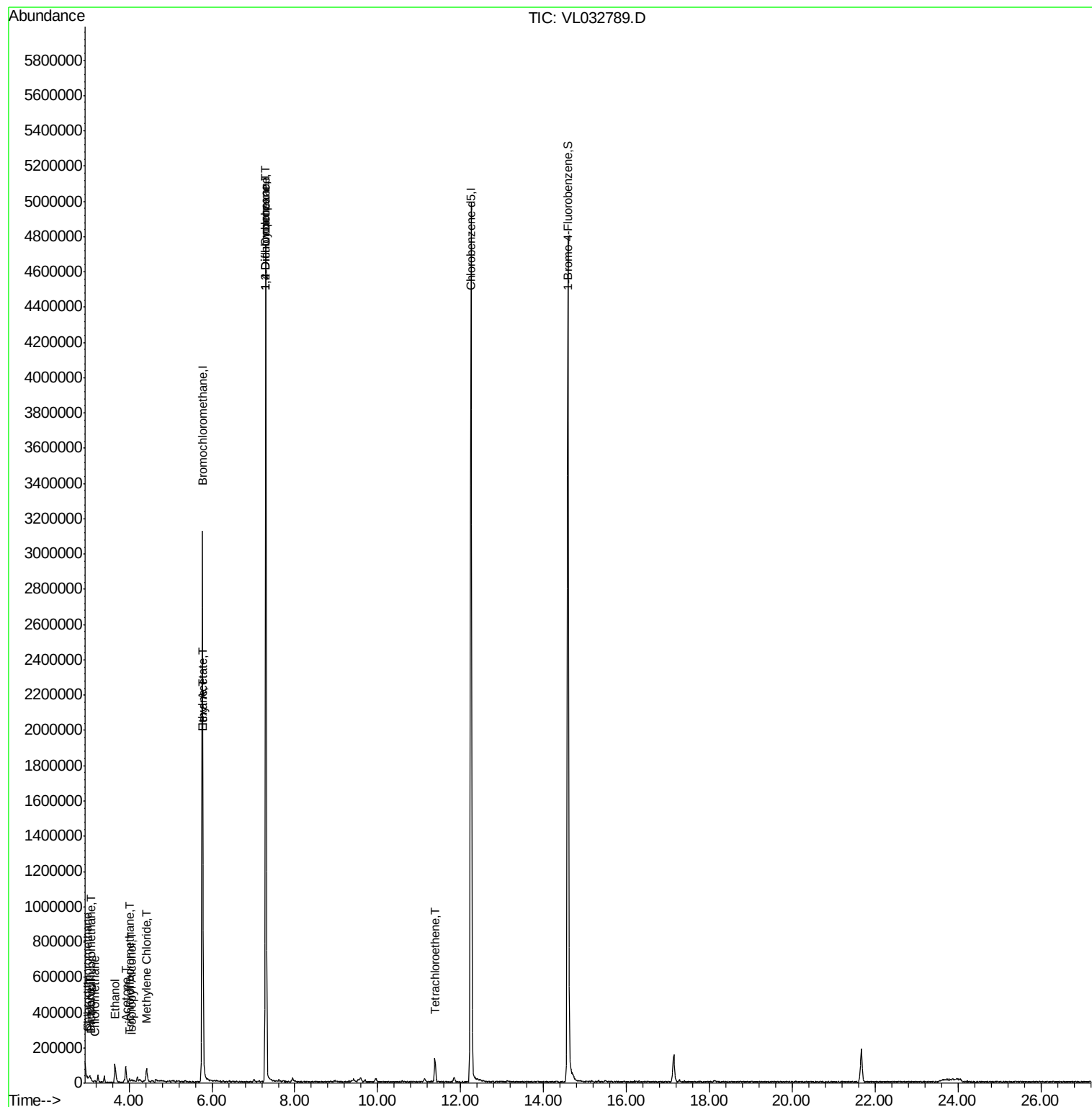
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	10669	0.055	ppbv	100
3) Chlorodifluoromethane	3.00	51	18510	0.174	ppbv #	81
4) Chloromethane	3.18	50	2536	0.043	ppbv #	41
9) Propene	3.06	41	5933	0.139	ppbv #	82
11) Trichlorofluoromethane	4.01	101	6867	0.038	ppbv	96
13) Ethanol	3.66	45	109823	7.873	ppbv	97
15) Acetone	3.92	43	86918	0.709	ppbv	96
19) Isopropyl Alcohol	4.06	45	5740	0.070	ppbv #	1
20) Methylene Chloride	4.42	84	25122	0.396	ppbv	83
25) Ethyl Acetate	5.79	43	11919	0.042	ppbv #	83
26) Hexane	5.79	57	11180	0.088	ppbv #	54
30) Cyclohexane	7.28	84	6752	0.061	ppbv #	1
39) 1,2-Dichloropropane	7.30	63	834712	8.203	ppbv #	24
52) Tetrachloroethene	11.38	164	30037	0.323	ppbv #	74

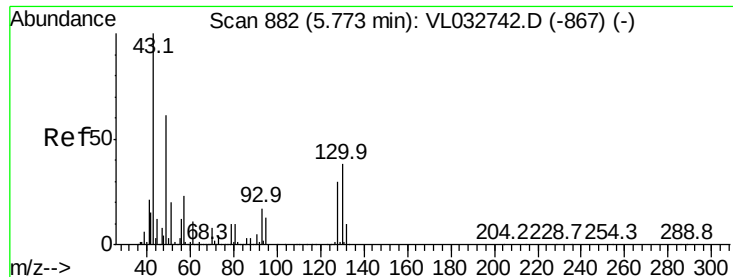
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

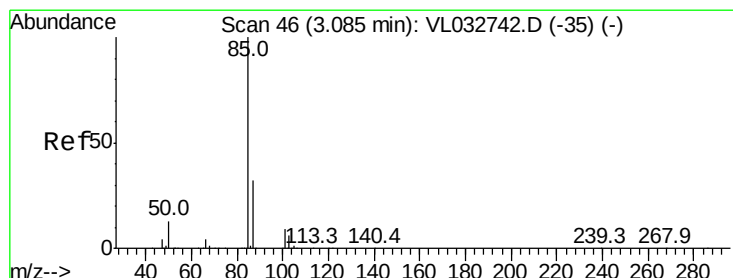
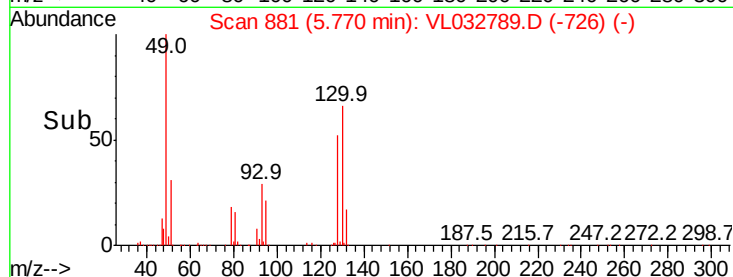
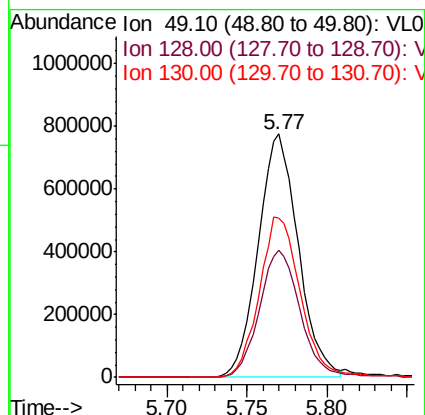
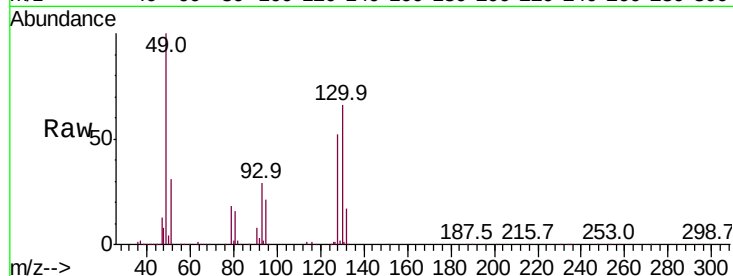




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.00 min
Lab File: VL032789.D
Acq: 20 Nov 2018 22:04

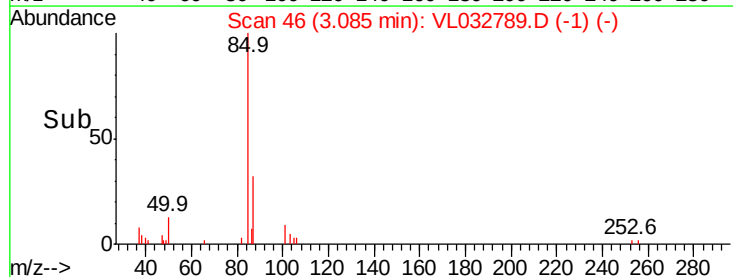
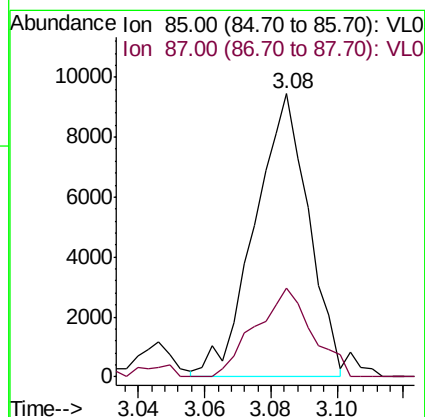
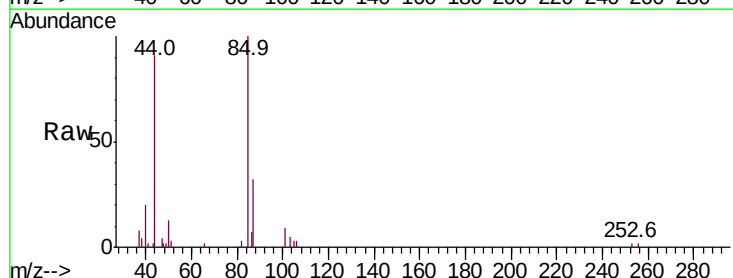
Instrument :
MSVOA_L
ClientSampleId :

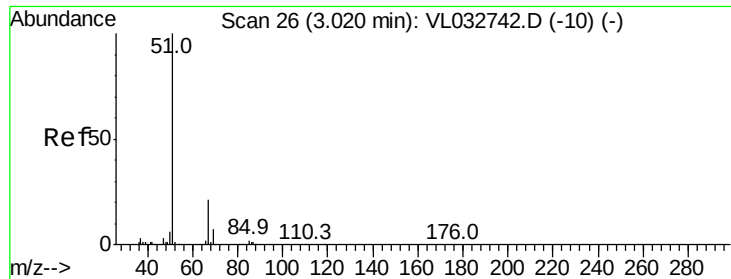
Tot Ion: 49 Resp: 1342384
Ion Ratio Lower Upper
49 100
128 53.9 24.9 74.6
130 68.8 31.4 94.2



#2
Dichlorodifluoromethane
Concen: 0.055 ppbv
RT: 3.08 min Scan# 46
Delta R.T. 0.00 min
Lab File: VL032789.D
Acq: 20 Nov 2018 22:04

Tgt Ion: 85 Resp: 10669
Ion Ratio Lower Upper
85 100
87 32.3 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.174 ppbv

RT: 3.00 min Scan# 19

Delta R.T. -0.02 min

Lab File: VL032789.D

Acq: 20 Nov 2018 22:04

Instrument :

MSVOA_L

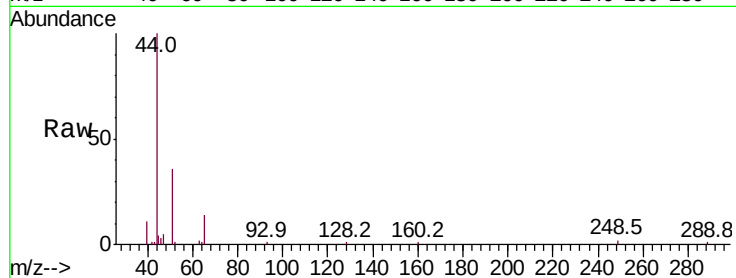
ClientSampleId :

Tot Ion: 51 Resp: 18510

Ion Ratio Lower Upper

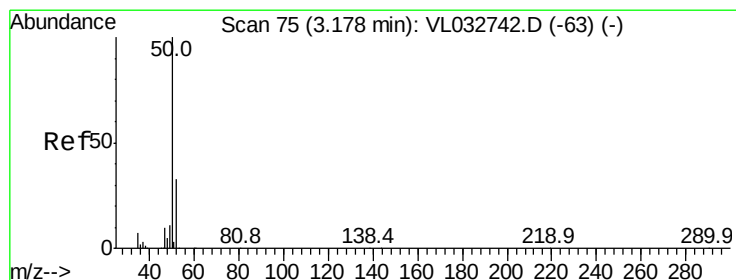
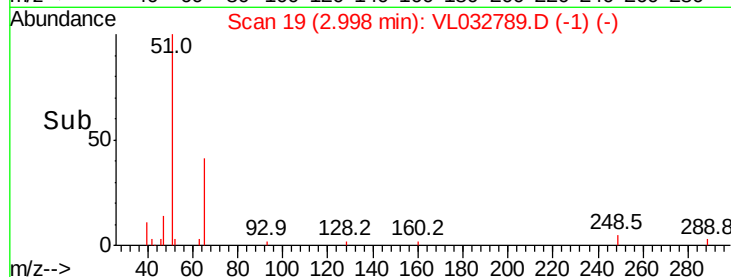
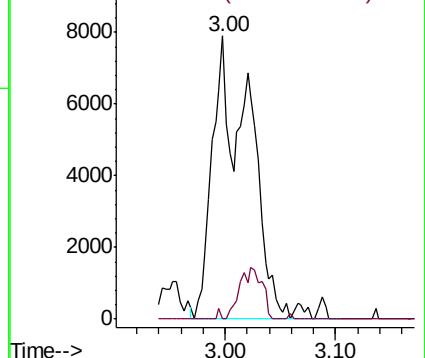
51 100

67 11.1 16.1 24.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.043 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032789.D

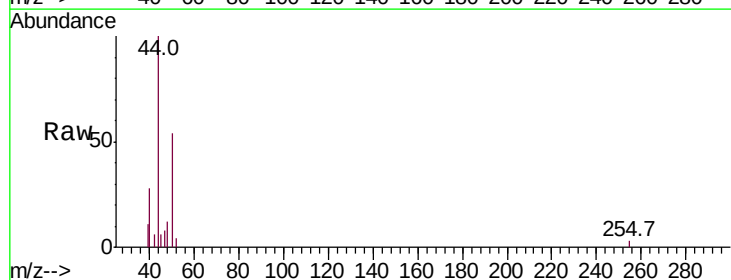
Acq: 20 Nov 2018 22:04

Tgt Ion: 50 Resp: 2536

Ion Ratio Lower Upper

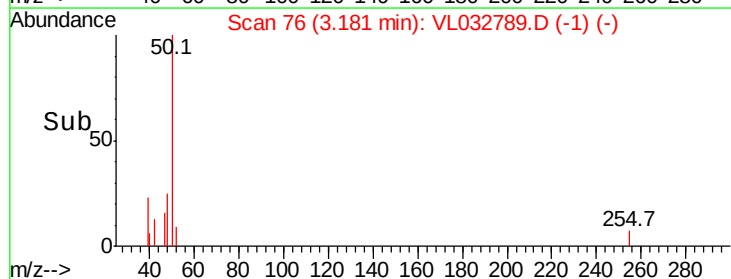
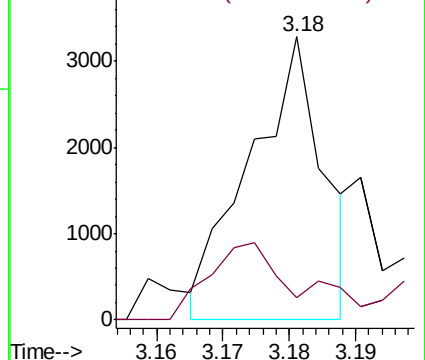
50 100

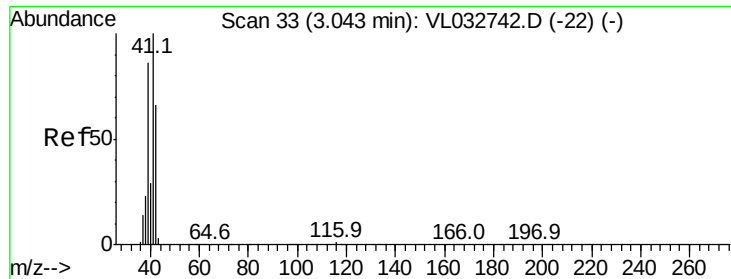
52 0.0 26.6 40.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.139 ppbv

RT: 3.06 min Scan# 38

Delta R.T. 0.02 min

Lab File: VL032789.D

Acq: 20 Nov 2018 22:04

Instrument :

MSVOA_L

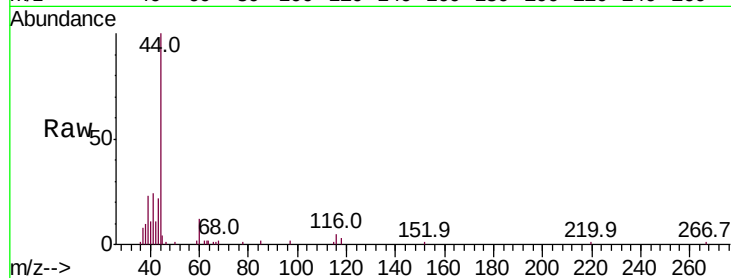
ClientSampleId :

Tot Ion: 41 Resp: 5933

Ion Ratio Lower Upper

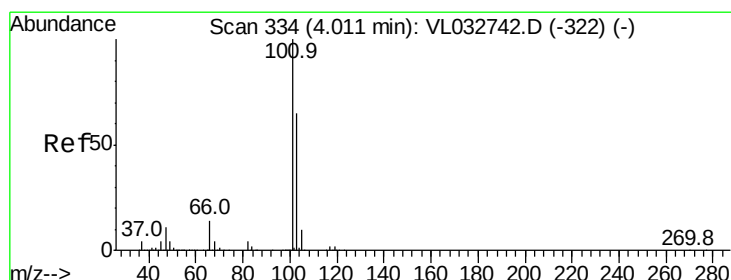
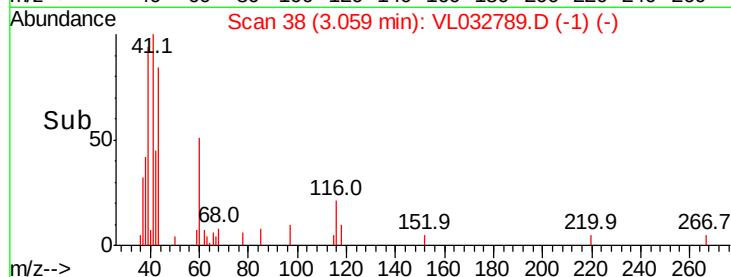
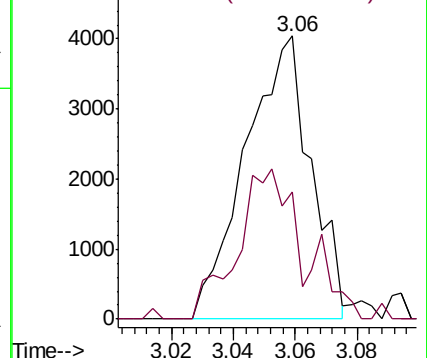
41 100

42 54.1 55.0 82.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.038 ppbv

RT: 4.01 min Scan# 335

Delta R.T. 0.00 min

Lab File: VL032789.D

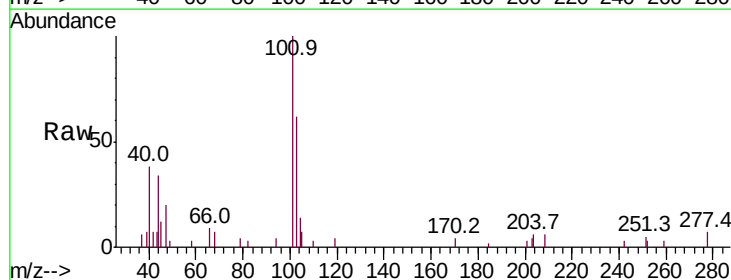
Acq: 20 Nov 2018 22:04

Tgt Ion: 101 Resp: 6867

Ion Ratio Lower Upper

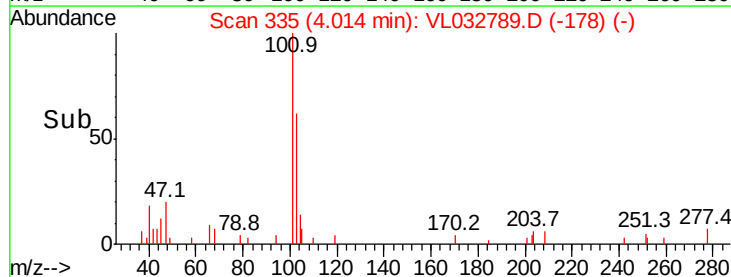
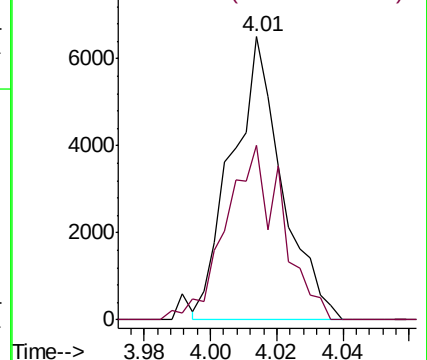
101 100

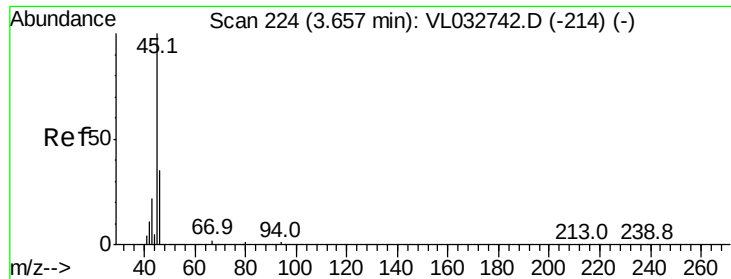
103 61.5 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 7.873 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.00 min

Lab File: VL032789.D

Acq: 20 Nov 2018 22:04

Instrument :

MSVOA_L

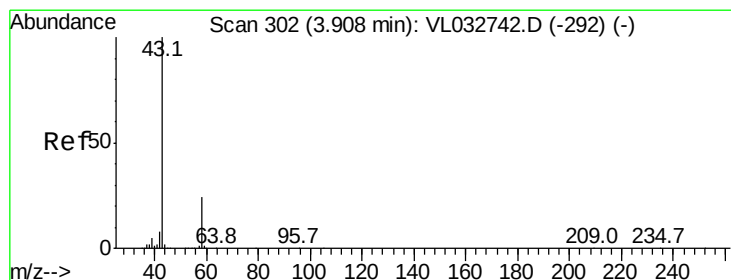
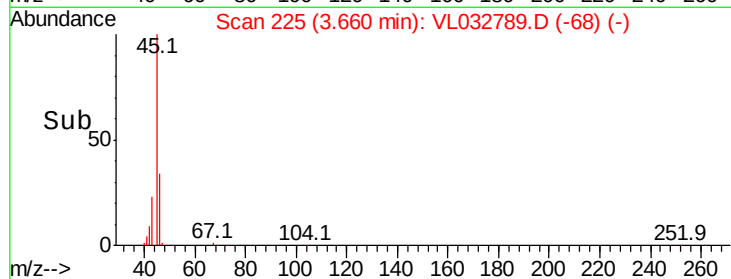
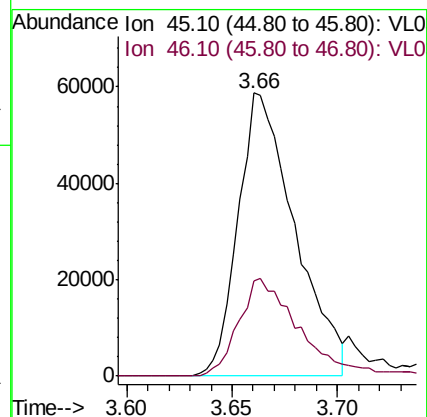
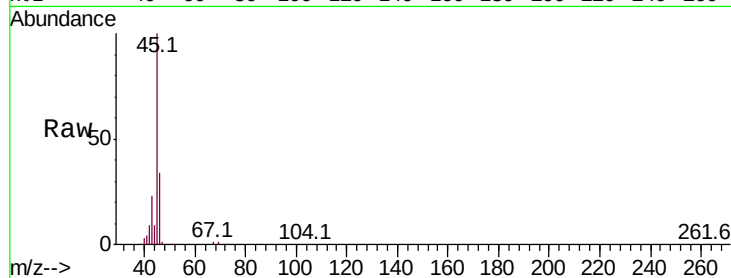
ClientSampleId :

Tot Ion: 45 Resp: 109823

Ion Ratio Lower Upper

45 100

46 37.8 14.5 57.9



#15

Acetone

Concen: 0.709 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.01 min

Lab File: VL032789.D

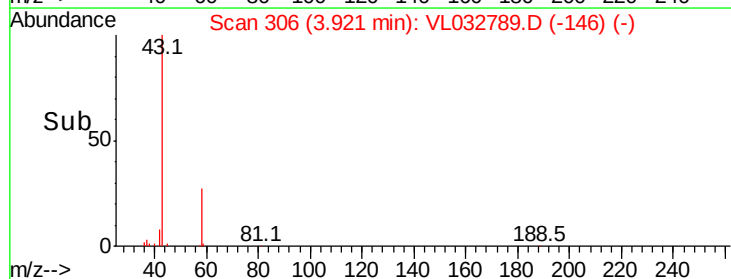
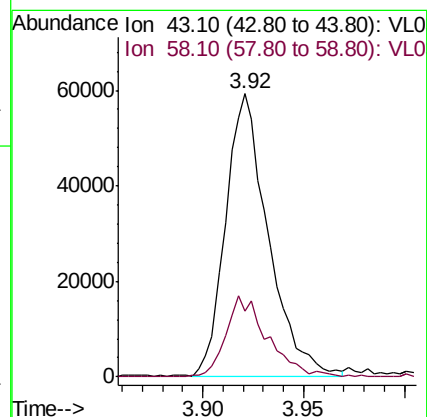
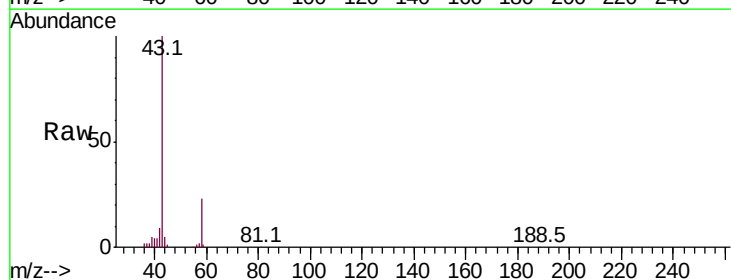
Acq: 20 Nov 2018 22:04

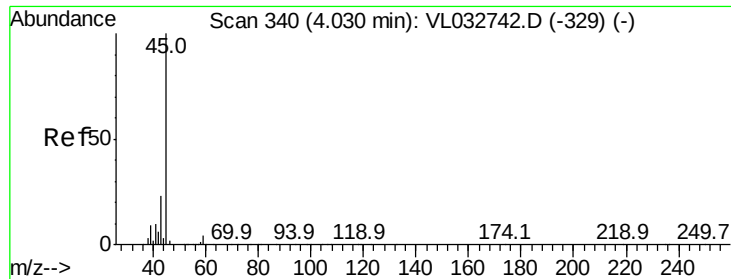
Tgt Ion: 43 Resp: 86918

Ion Ratio Lower Upper

43 100

58 28.5 21.1 31.7





#19

Isopropyl Alcohol

Concen: 0.070 ppbv

RT: 4.06 min Scan# 350

Delta R.T. 0.03 min

Lab File: VL032789.D

Acq: 20 Nov 2018 22:04

Instrument :

MSVOA_L

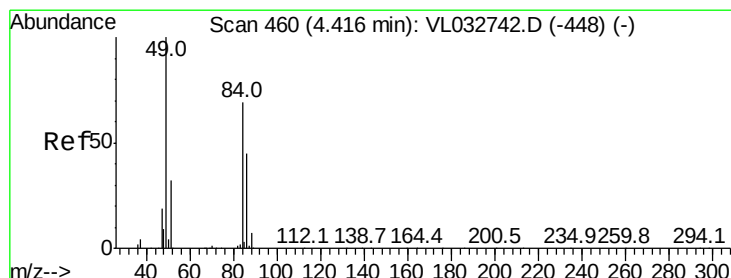
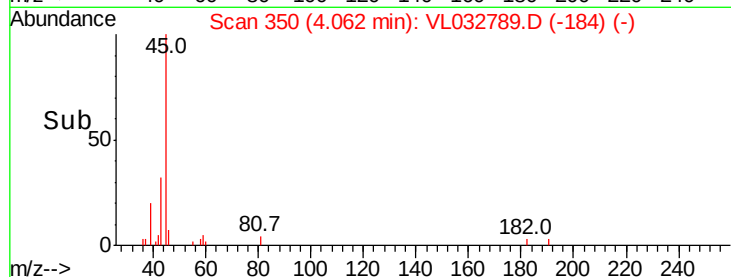
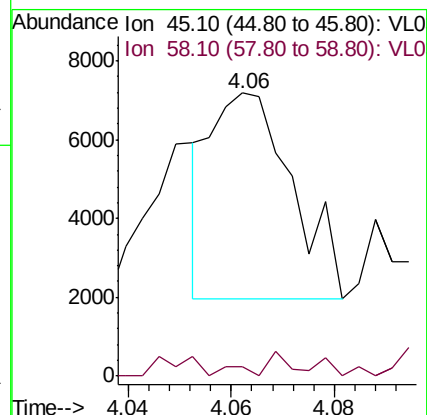
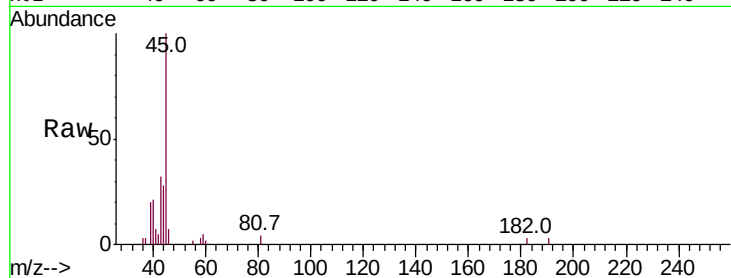
ClientSampled :

Tot Ion: 45 Resp: 5740

Ion Ratio Lower Upper

45 100

58 431.2 1.4 2.0#



#20

Methylene Chloride

Concen: 0.396 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.00 min

Lab File: VL032789.D

Acq: 20 Nov 2018 22:04

Tgt Ion: 84 Resp: 25122

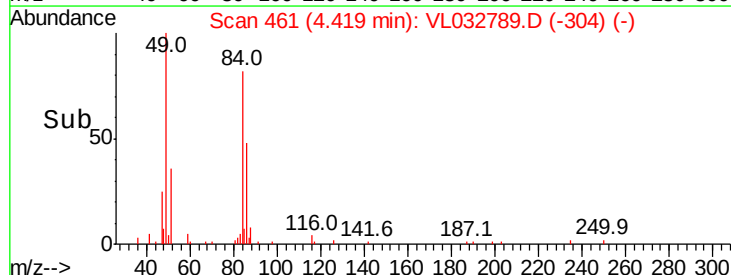
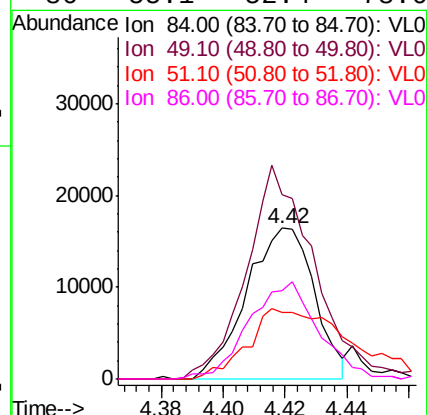
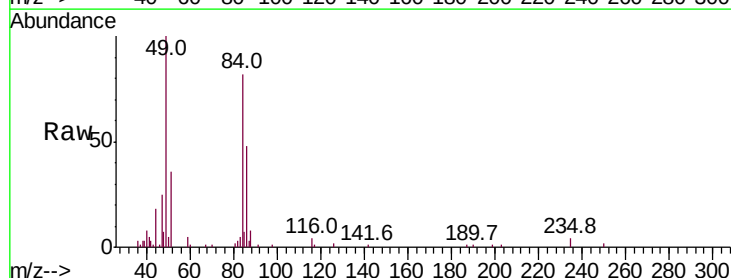
Ion Ratio Lower Upper

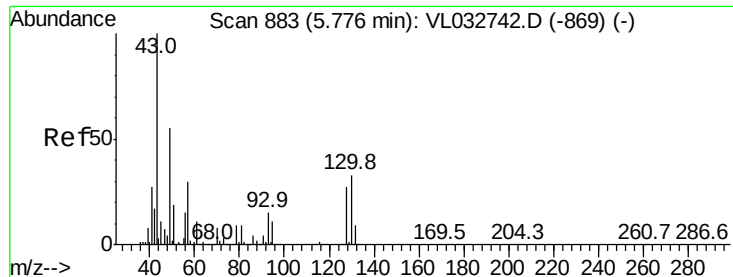
84 100

49 116.4 115.8 173.6

51 44.4 36.9 55.3

86 55.1 52.4 78.6

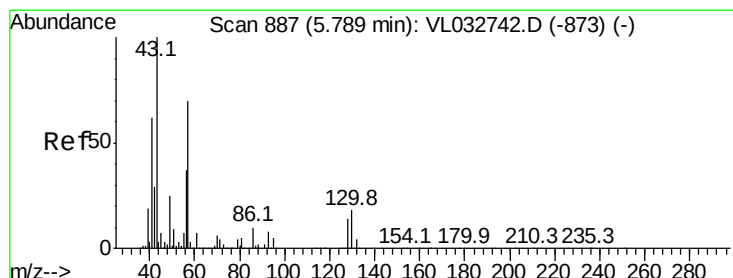
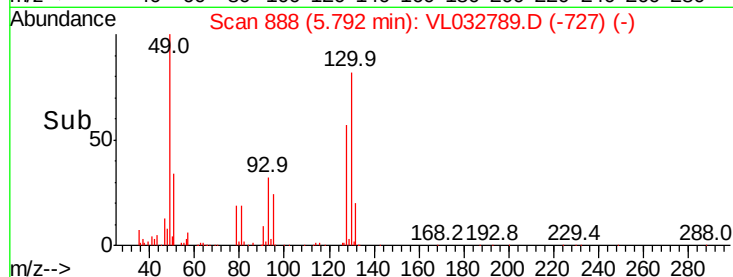
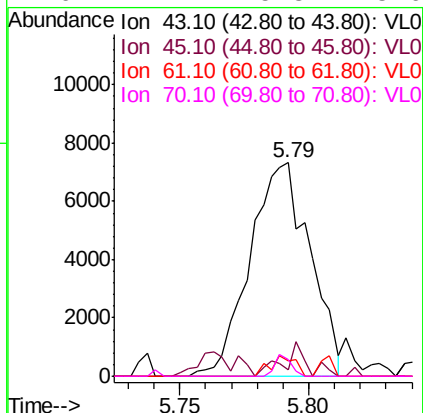
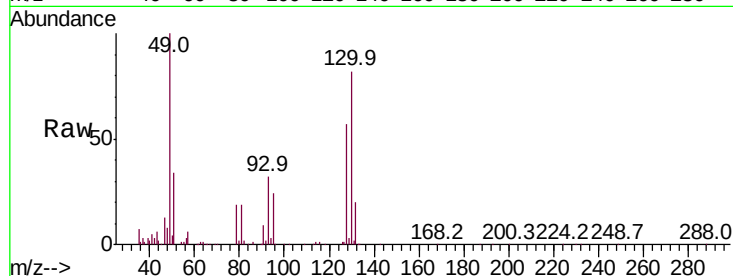




#25
Ethyl Acetate
Concen: 0.042 ppbv
RT: 5.79 min Scan# 888
Delta R.T. 0.02 min
Lab File: VL032789.D
Acq: 20 Nov 2018 22:04

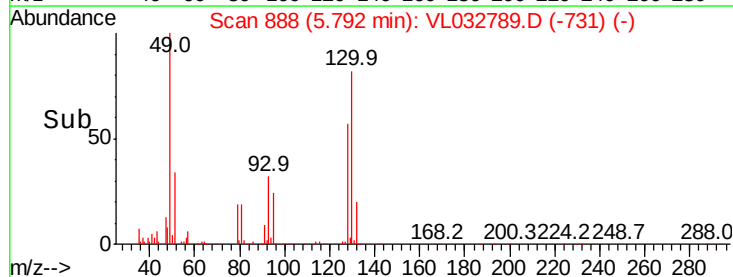
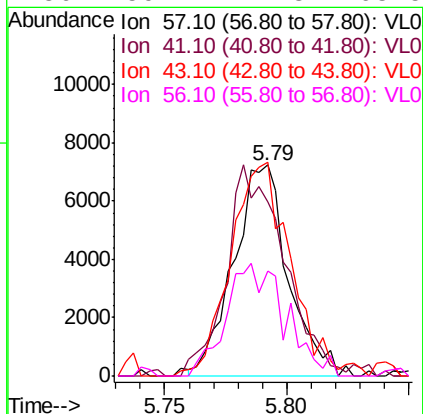
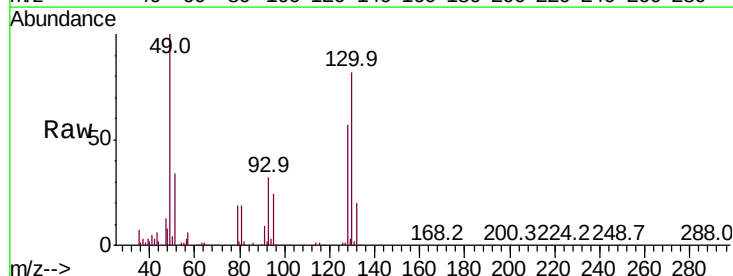
Instrument :
MSVOA_L
ClientSampleId :

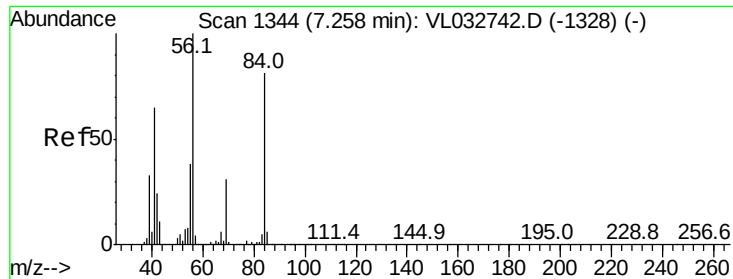
Tot Ion:	43	Resp:	11919
Ion	Ratio	Lower	Upper
43	100		
45	13.9	7.9	11.9#
61	0.0	7.8	11.6#
70	2.7	5.8	8.6#



#26
Hexane
Concen: 0.088 ppbv
RT: 5.79 min Scan# 888
Delta R.T. 0.00 min
Lab File: VL032789.D
Acq: 20 Nov 2018 22:04

Tgt Ion:	57	Resp:	11180
Ion	Ratio	Lower	Upper
57	100		
41	109.2	70.3	105.5#
43	114.3	174.0	261.0#
56	59.4	42.3	63.5

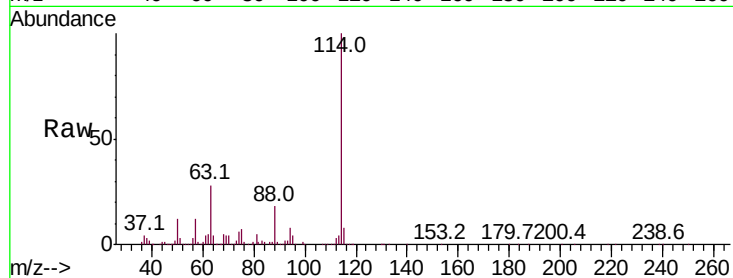




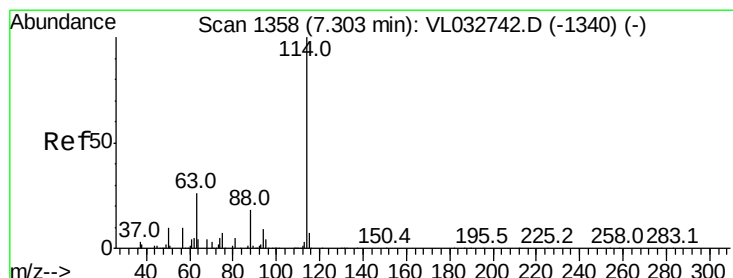
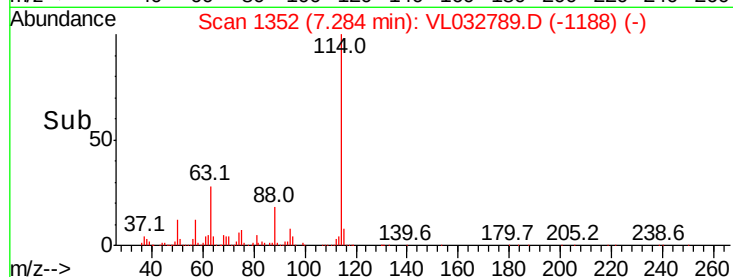
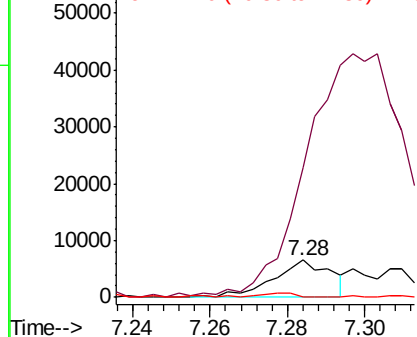
#30
Cvclohexane
Concen: 0.061 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. 0.03 min
Lab File: VL032789.D
Acq: 20 Nov 2018 22:04

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 6752
Ion Ratio Lower Upper
84 100
56 0.0 105.0 157.4#
41 9.5 65.3 97.9#

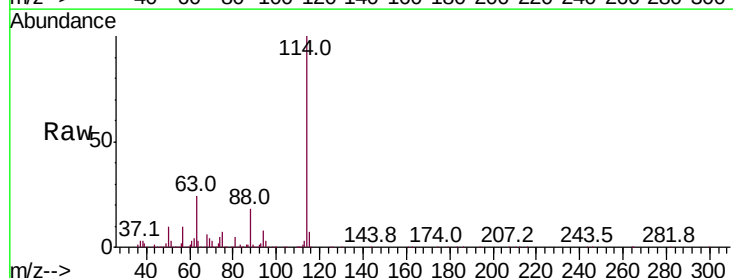


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

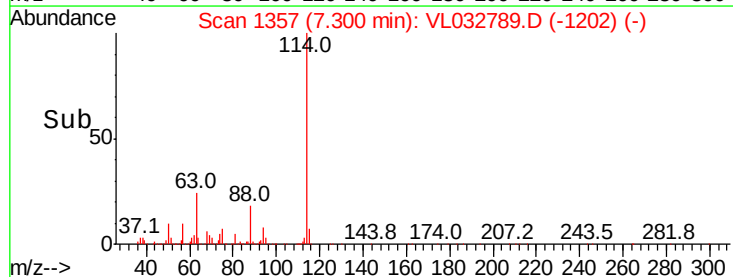
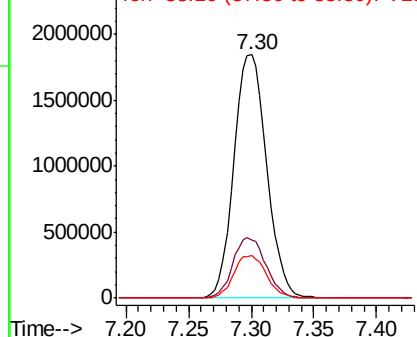


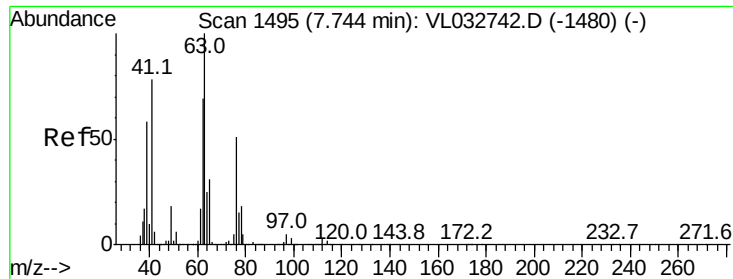
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1357
Delta R.T. -0.00 min
Lab File: VL032789.D
Acq: 20 Nov 2018 22:04

Tgt Ion: 114 Resp: 3353885
Ion Ratio Lower Upper
114 100
63 25.0 20.9 31.3
88 17.6 14.4 21.6



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

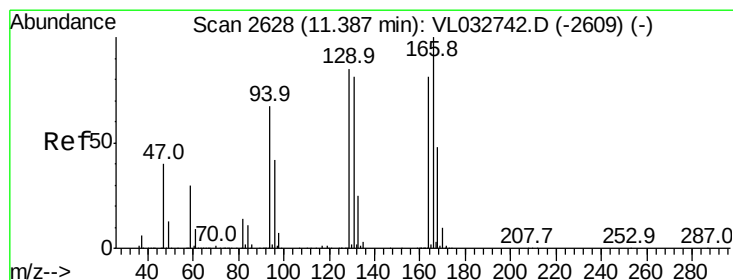
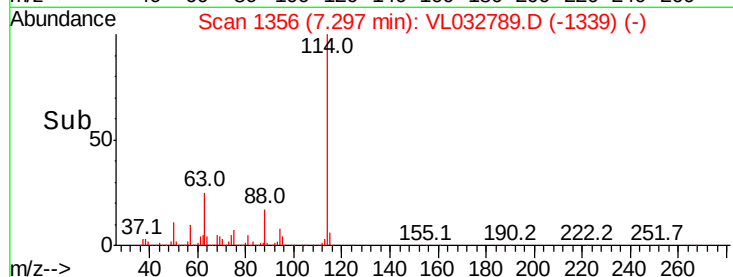
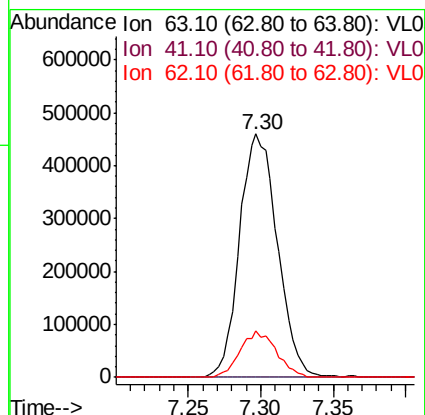
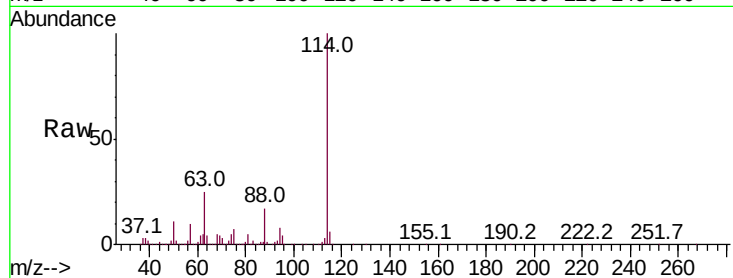




#39
 1,2-Dichloropropane
 Concen: 8.203 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.45 min
 Lab File: VL032789.D
 Acq: 20 Nov 2018 22:04

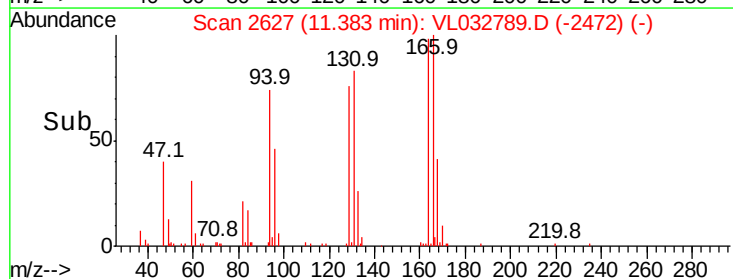
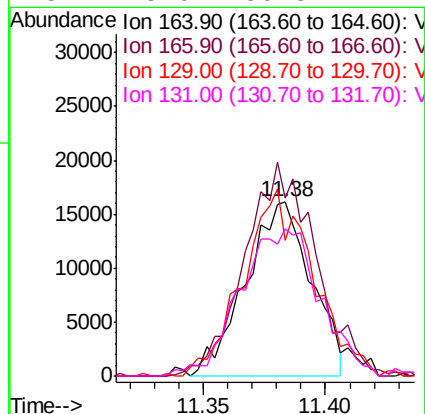
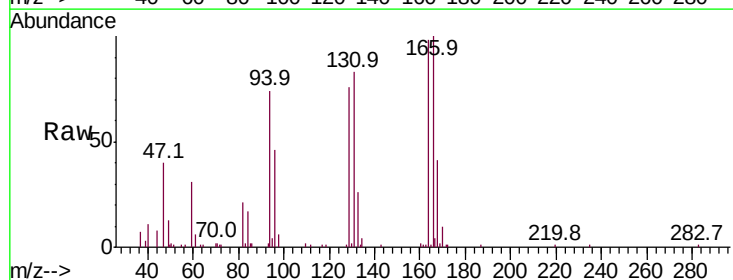
Instrument :
 MSVOA_L
 ClientSampleId :

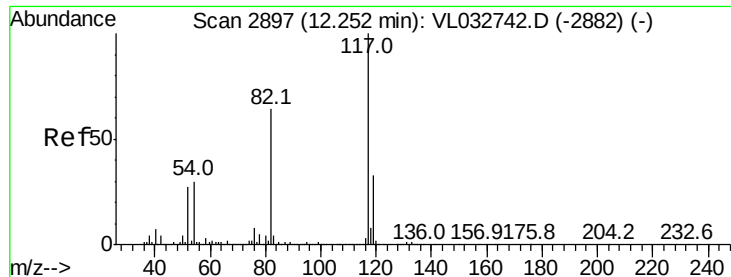
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.1	62.0	93.0#
62	19.2	55.4	83.2#



#52
 Tetrachloroethene
 Concen: 0.323 ppbv
 RT: 11.38 min Scan# 2627
 Delta R.T. -0.00 min
 Lab File: VL032789.D
 Acq: 20 Nov 2018 22:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	96.1	99.3	148.9#
129	74.0	83.9	125.9#
131	78.0	80.8	121.2#

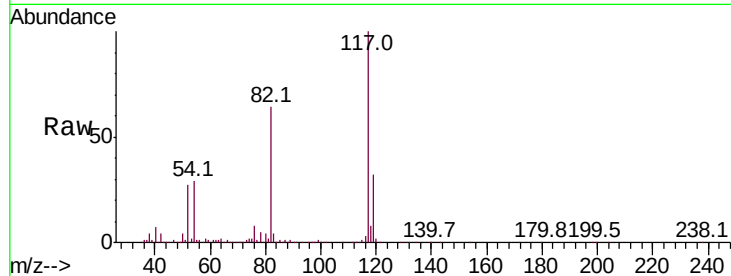




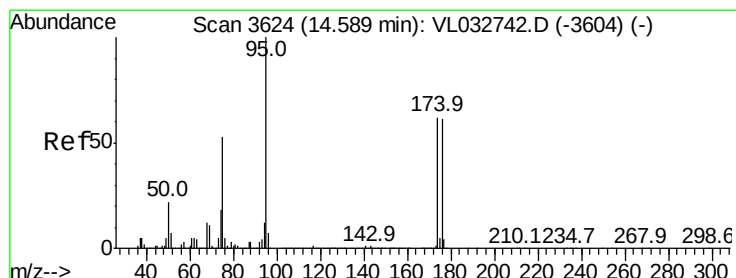
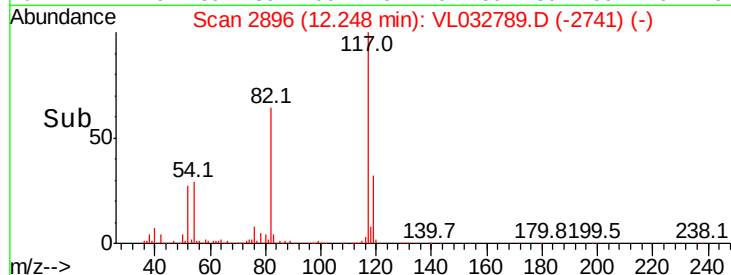
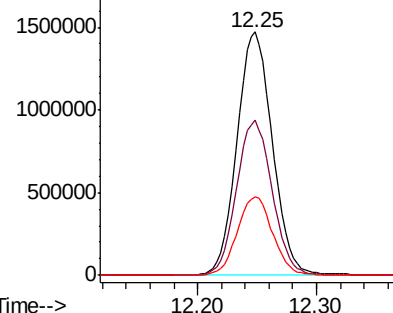
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032789.D
Acq: 20 Nov 2018 22:04

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3030075
Ion Ratio Lower Upper
117 100
82 64.6 51.0 76.6
119 32.5 28.0 42.0

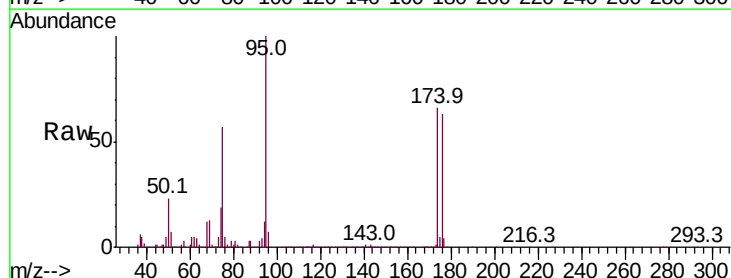


Abundance Ion 117.10 (116.80 to 117.80): V
2000000
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.837 ppbv
RT: 14.59 min Scan# 3623
Delta R.T. -0.00 min
Lab File: VL032789.D
Acq: 20 Nov 2018 22:04

Tgt Ion: 95 Resp: 2229377
Ion Ratio Lower Upper
95 100
174 67.0 50.7 76.1
175 4.9 3.8 5.6



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

