

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032273.D
 Acq On : 18 Jul 2018 23:08
 Operator : SY/AP
 Sample : J3454-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 19 02:00:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 18 14:38:53 2018
 QLast Update : Wed Jul 18 14:38:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1725330	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3595002	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4205011	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3302545	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

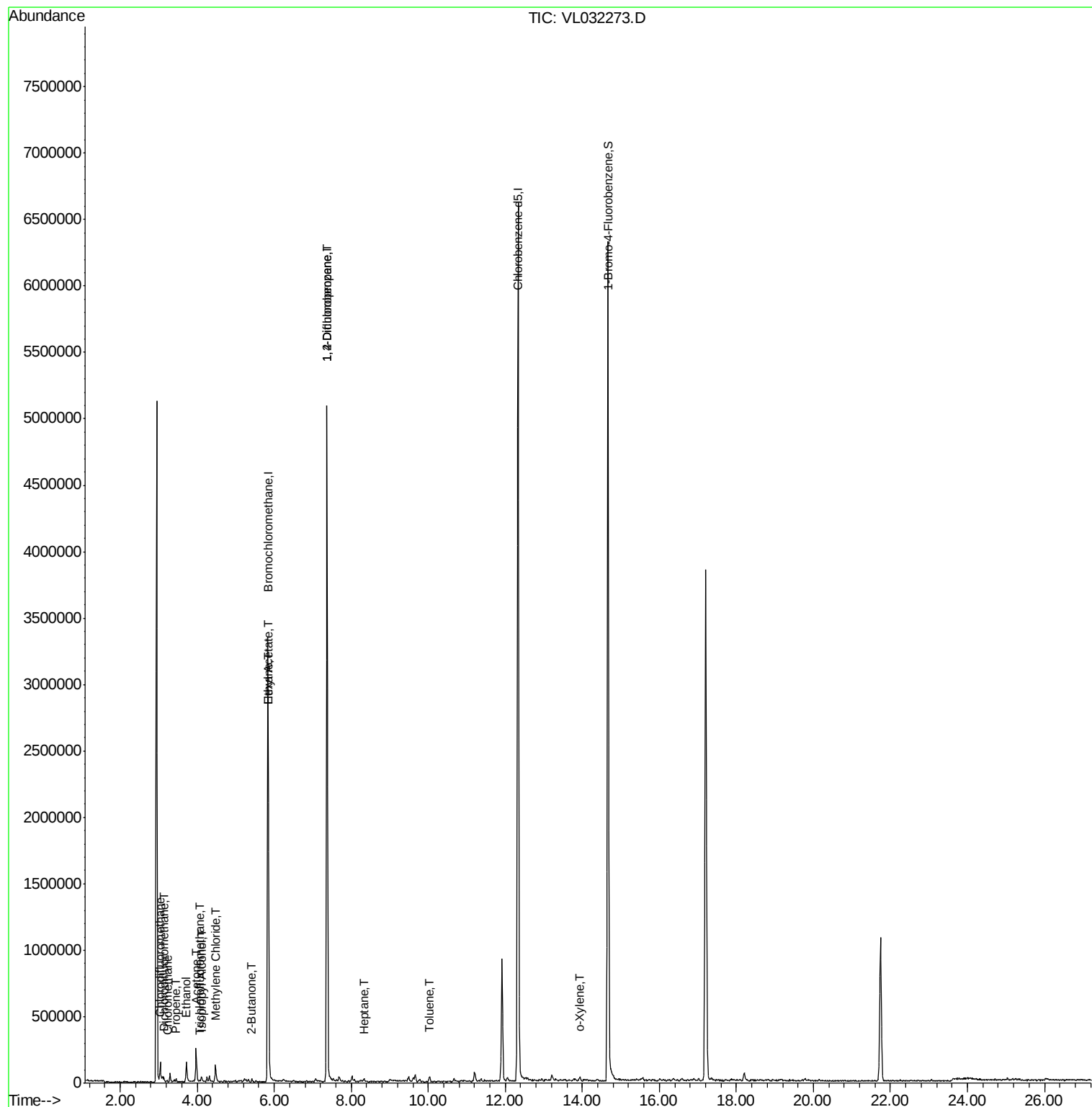
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	24090	0.082	ppbv	94
3) Chlorodifluoromethane	3.04	51	109325	0.565	ppbv #	72
4) Chloromethane	3.23	50	7275	0.064	ppbv #	85
9) Propene	3.45	41	4558	0.054	ppbv	97
10) Heptane	8.34	43	6335	0.024	ppbv	91
11) Trichlorofluoromethane	4.07	101	4705	0.021	ppbv #	68
13) Ethanol	3.72	45	158852	6.570	ppbv	98
15) Acetone	3.97	43	255091	1.413	ppbv	98
19) Isopropyl Alcohol	4.12	45	13546	0.111	ppbv #	35
20) Methylene Chloride	4.48	84	40421	0.581	ppbv	93
25) Ethyl Acetate	5.86	43	182808	0.465	ppbv #	79
26) Hexane	5.86	57	246372	1.364	ppbv #	43
34) 2-Butanone	5.42	43	24688	0.100	ppbv	95
39) 1,2-Dichloropropane	7.37	63	1012622	7.228	ppbv #	25
53) Toluene	10.03	91	16445	0.038	ppbv #	67
60) o-Xylene	13.94	91	10918	0.022	ppbv #	54

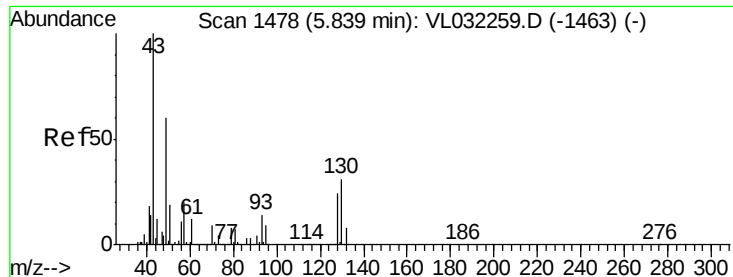
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL071818\
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 18 14:38:53 2018
QLast Update : Wed Jul 18 14:38:53 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1477

Delta R.T. -0.00 min

Lab File: VL032273.D

Acq: 18 Jul 2018 23:08

Instrument :
MSVOA_L
ClientSampleId :

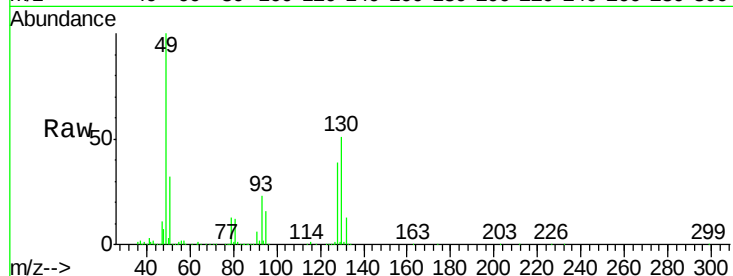
Tot Ion: 49 Resp: 1725330

Ion Ratio Lower Upper

49 100

128 40.2 20.1 60.2

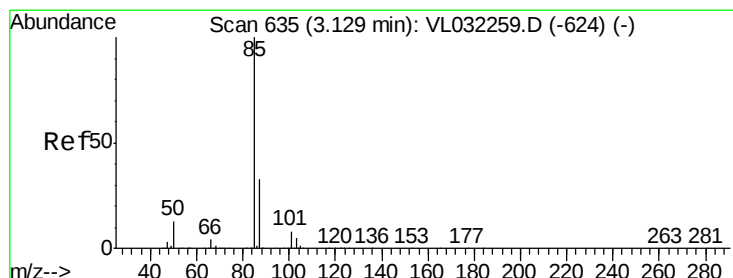
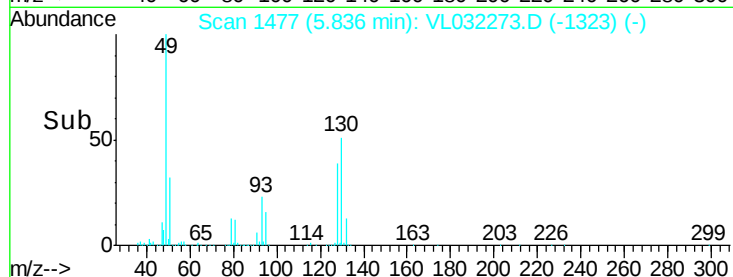
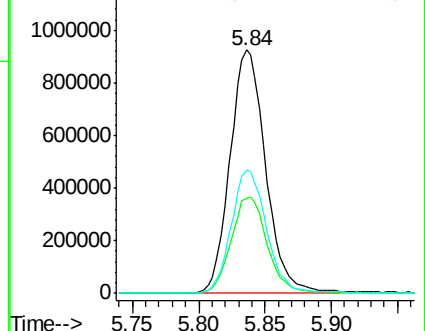
130 50.8 25.9 77.6



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: 0.082 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.00 min

Lab File: VL032273.D

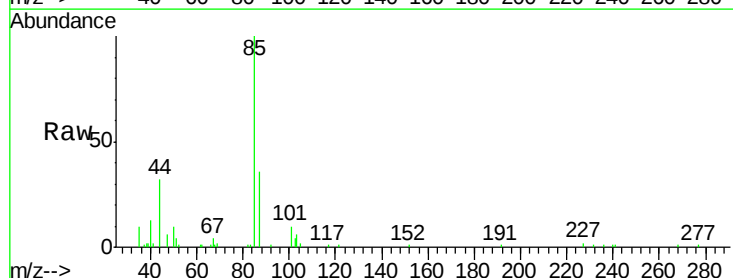
Acq: 18 Jul 2018 23:08

Tgt Ion: 85 Resp: 24090

Ion Ratio Lower Upper

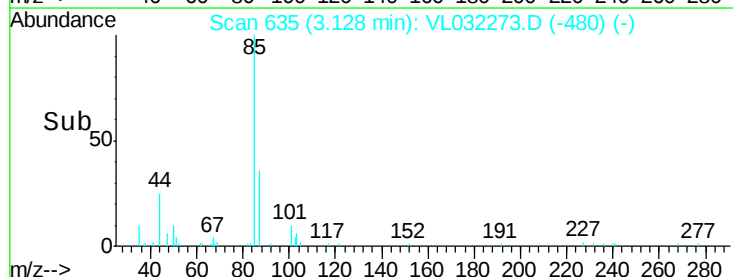
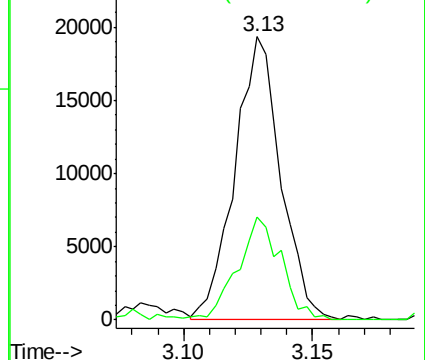
85 100

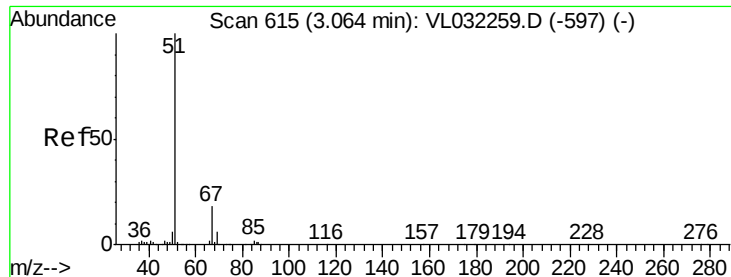
87 36.1 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.565 ppbv

RT: 3.04 min Scan# 608

Delta R.T. -0.02 min

Lab File: VL032273.D

Acq: 18 Jul 2018 23:08

Instrument :

MSVOA_L

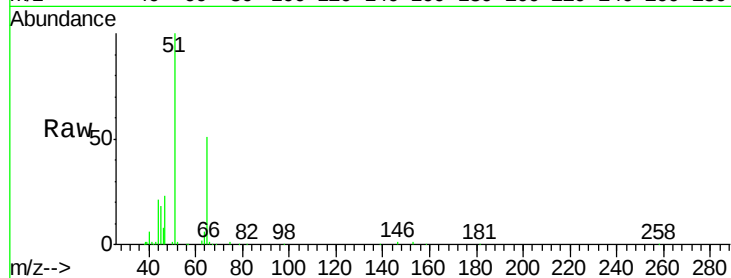
ClientSampleId :

Tot Ion: 51 Resp: 109325

Ion Ratio Lower Upper

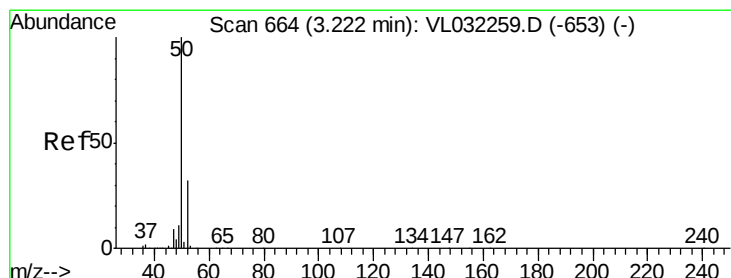
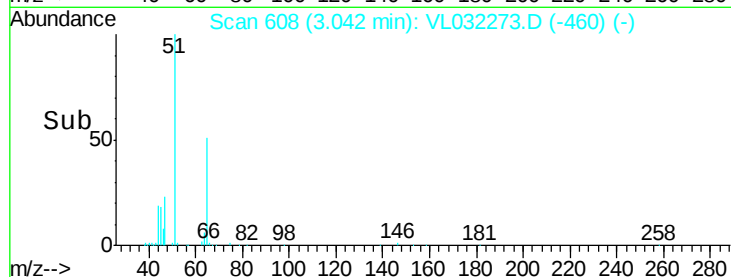
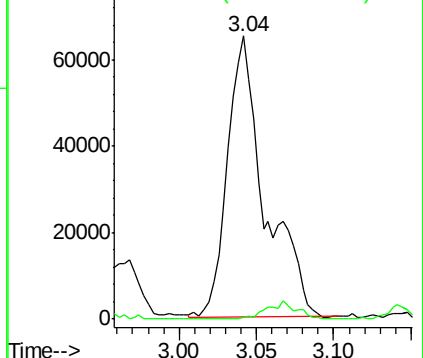
51 100

67 5.3 14.2 21.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.064 ppbv

RT: 3.23 min Scan# 666

Delta R.T. 0.01 min

Lab File: VL032273.D

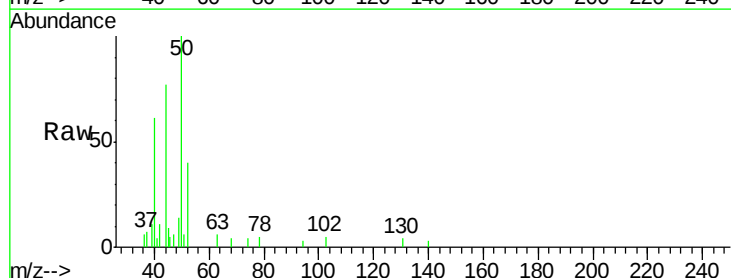
Acq: 18 Jul 2018 23:08

Tgt Ion: 50 Resp: 7275

Ion Ratio Lower Upper

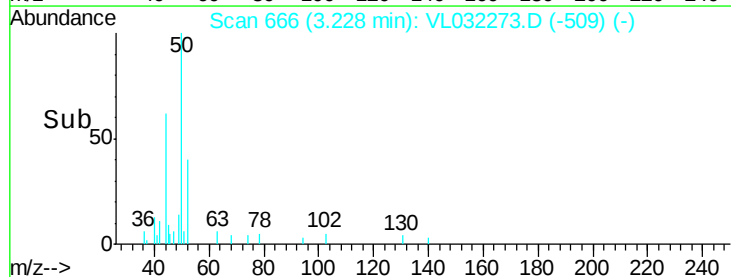
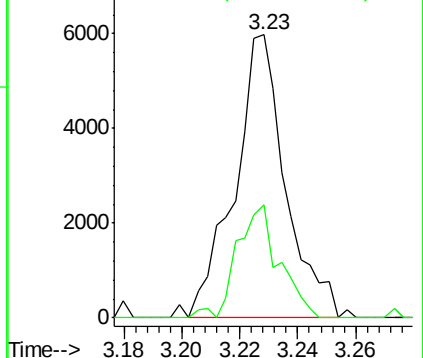
50 100

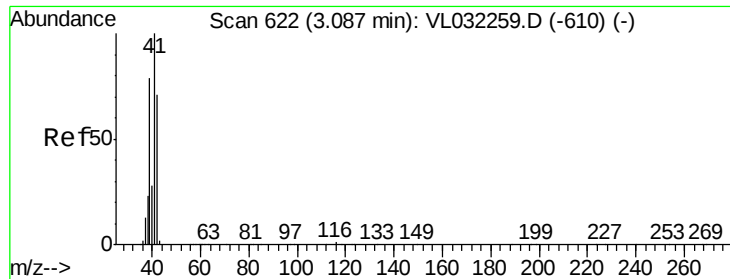
52 40.0 25.3 37.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.054 ppbv

RT: 3.45 min Scan# 735

Delta R.T. 0.36 min

Lab File: VL032273.D

Acq: 18 Jul 2018 23:08

Instrument :

MSVOA_L

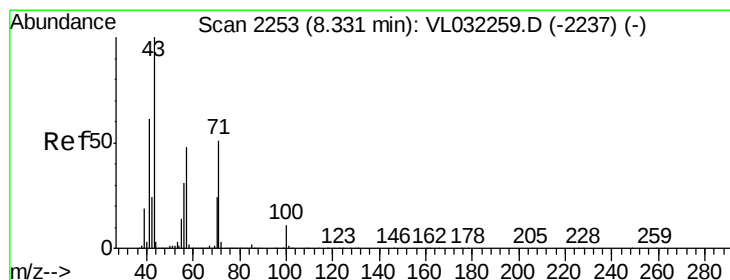
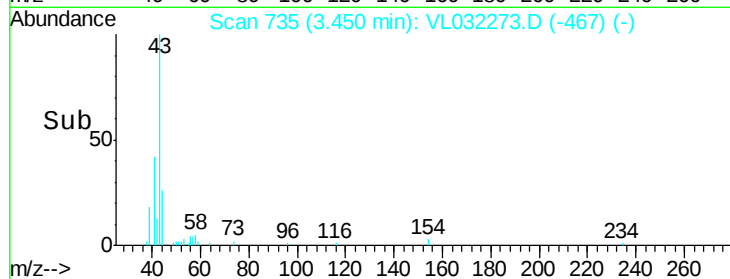
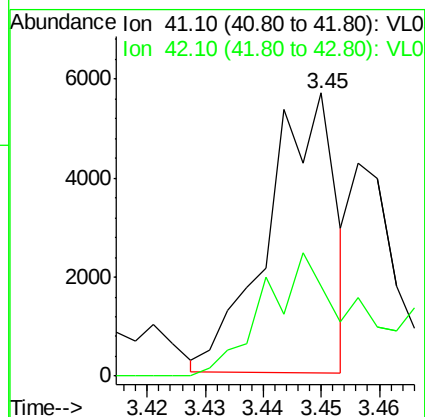
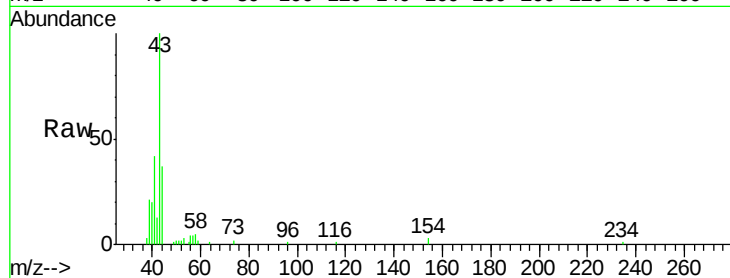
ClientSampleId :

Tot Ion: 41 Resp: 4558

Ion Ratio Lower Upper

41 100

42 67.9 56.2 84.4



#10

Heptane

Concen: 0.024 ppbv

RT: 8.34 min Scan# 2255

Delta R.T. 0.01 min

Lab File: VL032273.D

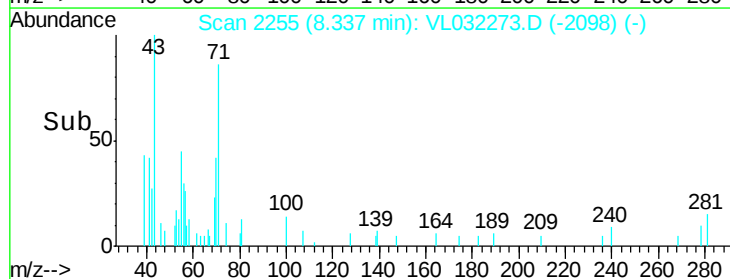
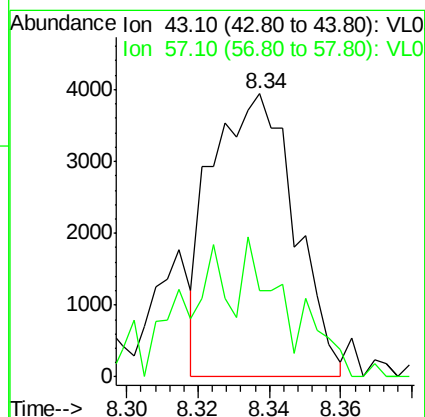
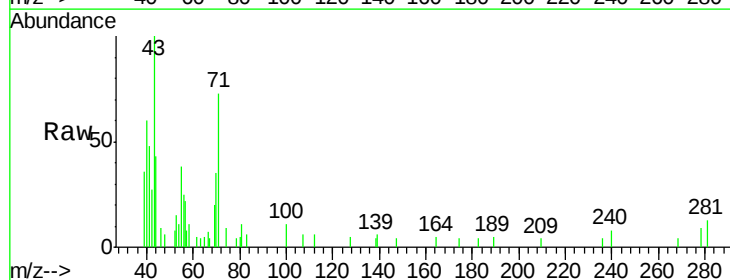
Acq: 18 Jul 2018 23:08

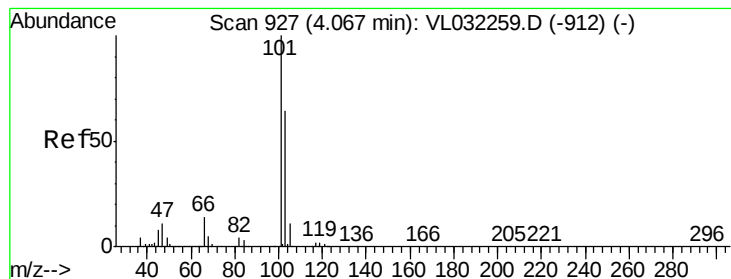
Tgt Ion: 43 Resp: 6335

Ion Ratio Lower Upper

43 100

57 56.3 39.9 59.9





#11

Trichlorofluoromethane

Concen: 0.021 ppbv

RT: 4.07 min Scan# 927

Delta R.T. -0.00 min

Lab File: VL032273.D

Acq: 18 Jul 2018 23:08

Instrument :

MSVOA_L

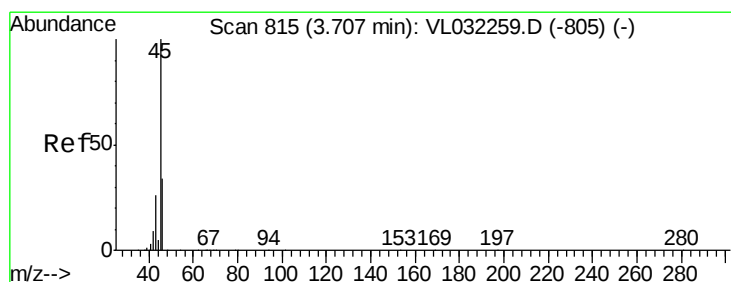
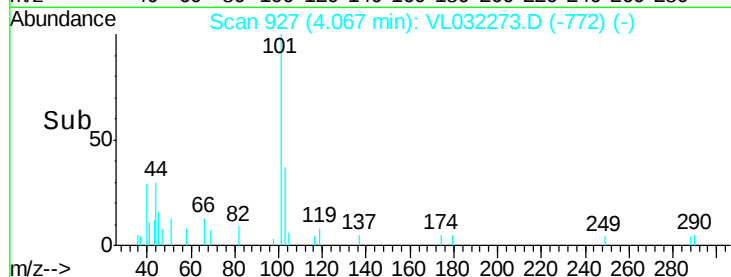
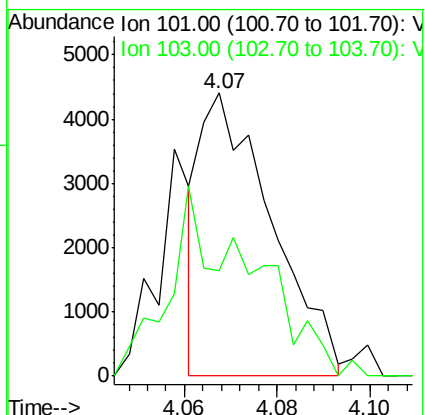
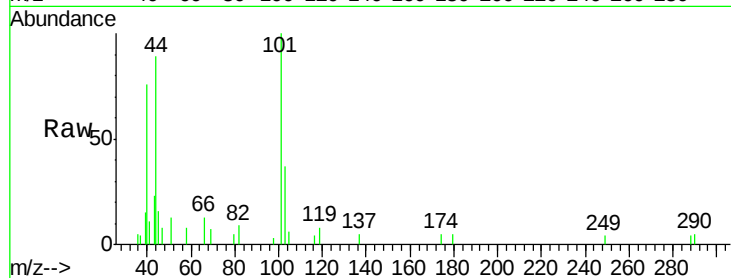
ClientSampleId :

Tot Ion:101 Resp: 4705

Ion Ratio Lower Upper

101 100

103 38.9 51.5 77.3#



#13

Ethanol

Concen: 6.570 ppbv

RT: 3.72 min Scan# 818

Delta R.T. 0.01 min

Lab File: VL032273.D

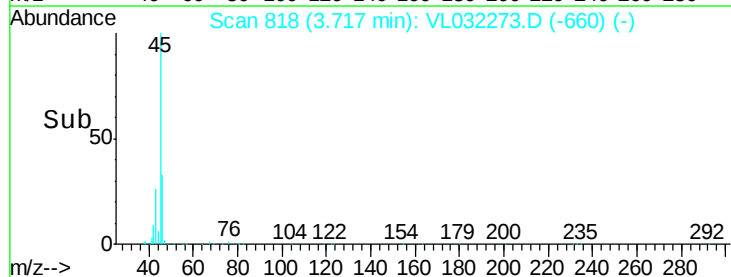
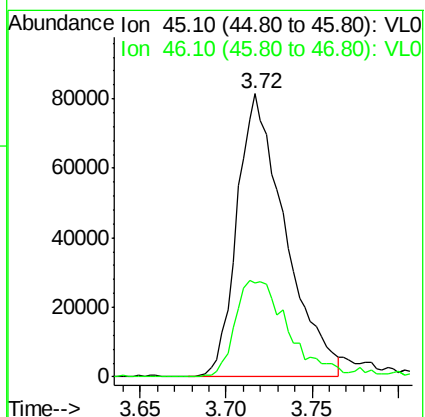
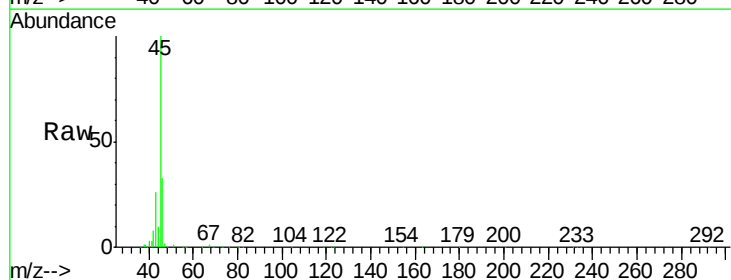
Acq: 18 Jul 2018 23:08

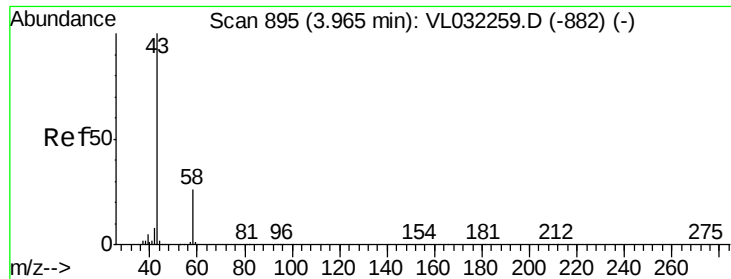
Tgt Ion: 45 Resp: 158852

Ion Ratio Lower Upper

45 100

46 39.3 15.2 60.8





#15

Acetone

Concen: 1.413 ppbv

RT: 3.97 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL032273.D

Acq: 18 Jul 2018 23:08

Instrument :

MSVOA_L

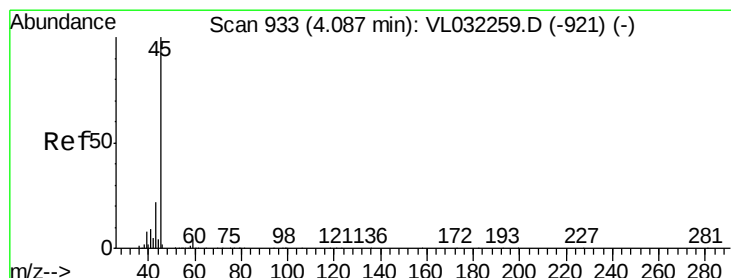
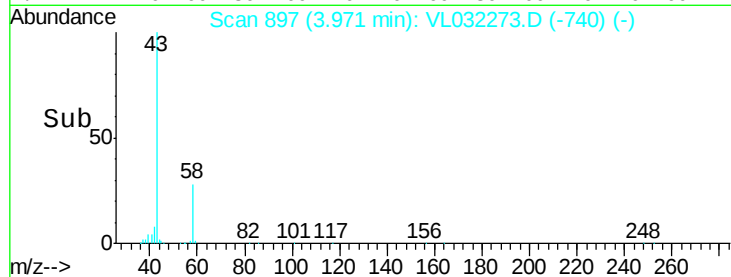
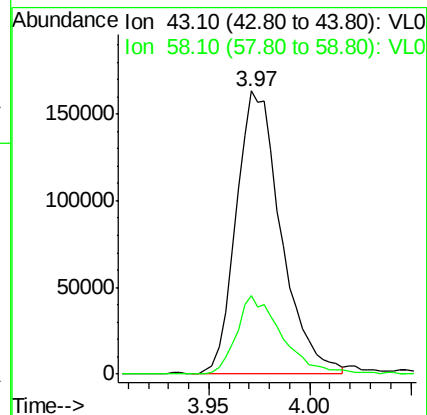
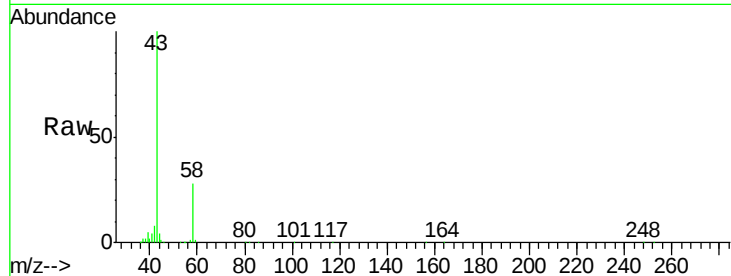
ClientSampleId :

Tot Ion: 43 Resp: 255091

Ion Ratio Lower Upper

43 100

58 28.4 21.8 32.6



#19

Isopropyl Alcohol

Concen: 0.111 ppbv

RT: 4.12 min Scan# 943

Delta R.T. 0.03 min

Lab File: VL032273.D

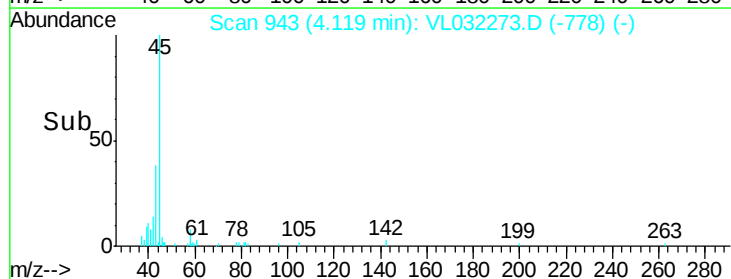
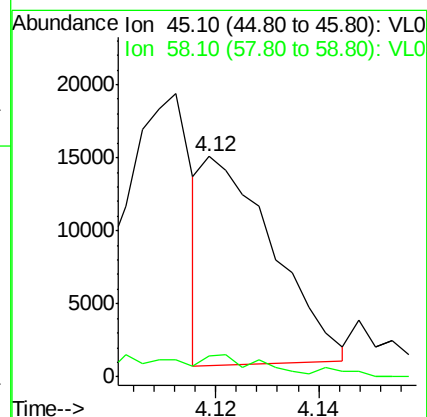
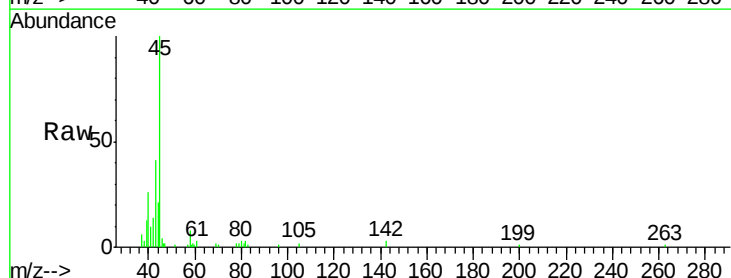
Acq: 18 Jul 2018 23:08

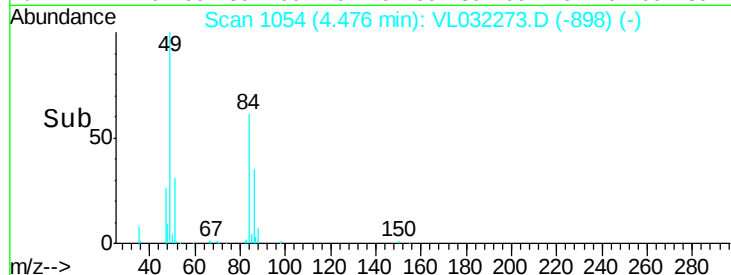
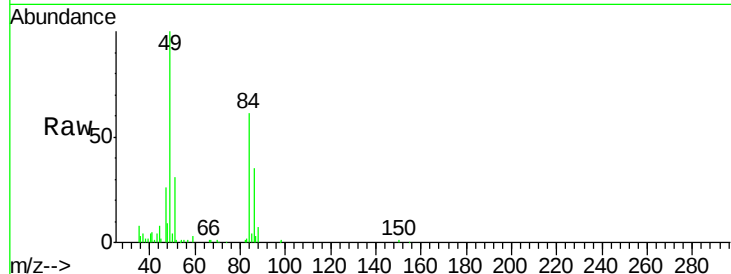
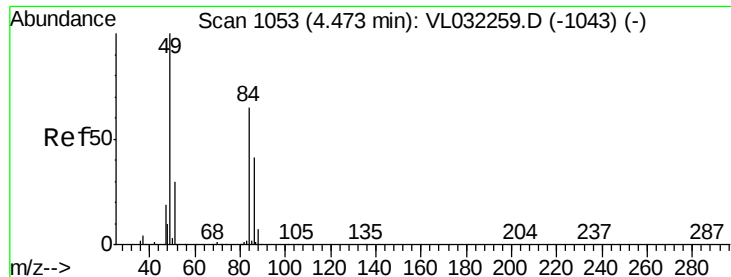
Tgt Ion: 45 Resp: 13546

Ion Ratio Lower Upper

45 100

58 25.0 1.5 2.3#

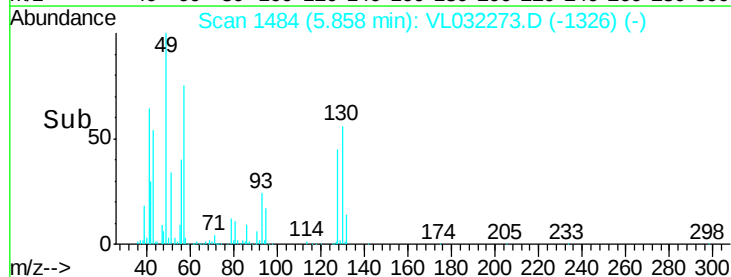
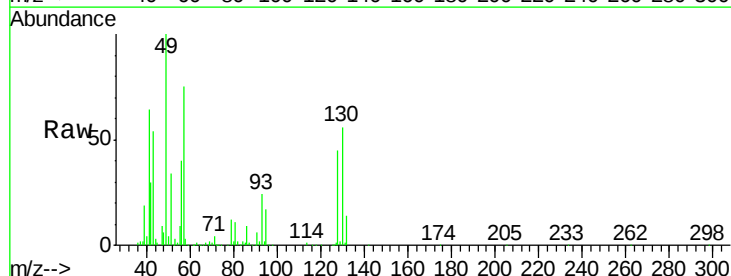
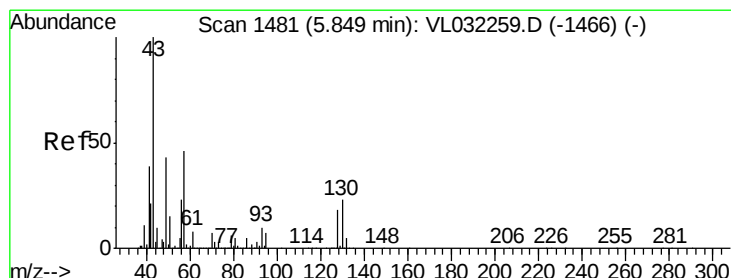
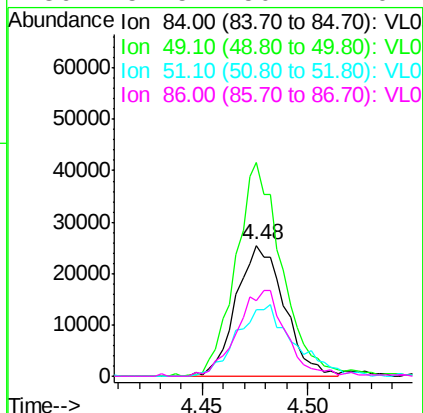




#20
Methylene Chloride
Concen: 0.581 ppbv
RT: 4.48 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VL032273.D
Acq: 18 Jul 2018 23:08

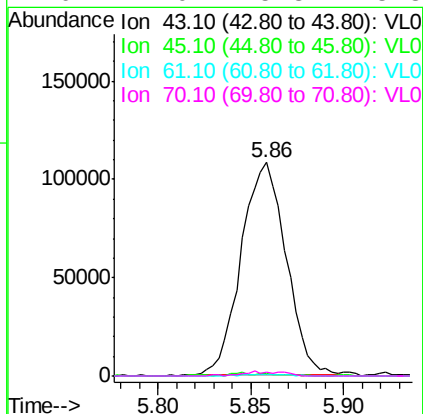
Instrument :
MSVOA_L
ClientSampleId :

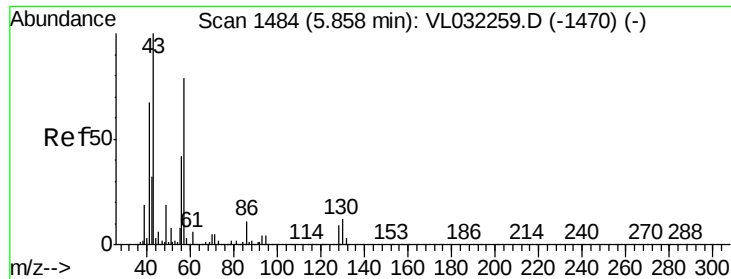
Tot Ion:	84	Resp:	40421
Ion	Ratio	Lower	Upper
84	100		
49	162.5	122.4	183.6
51	50.8	36.8	55.2
86	57.5	50.7	76.1



#25
Ethyl Acetate
Concen: 0.465 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. 0.01 min
Lab File: VL032273.D
Acq: 18 Jul 2018 23:08

Tgt Ion:	43	Resp:	182808
Ion	Ratio	Lower	Upper
43	100		
45	1.6	7.9	11.9#
61	0.8	7.6	11.4#
70	2.0	5.8	8.8#

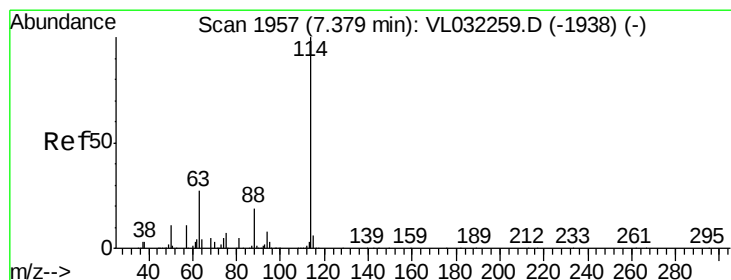
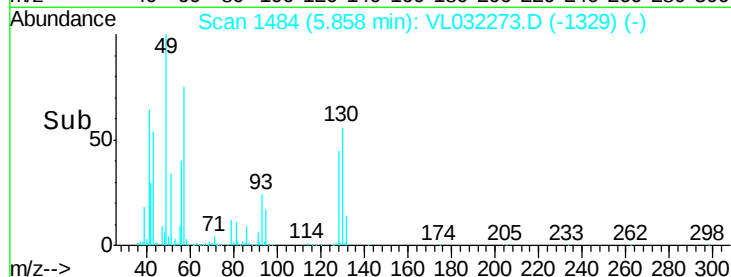
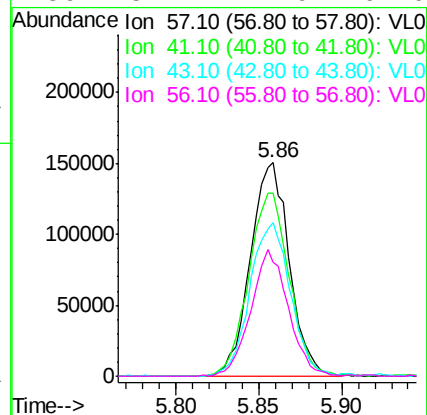
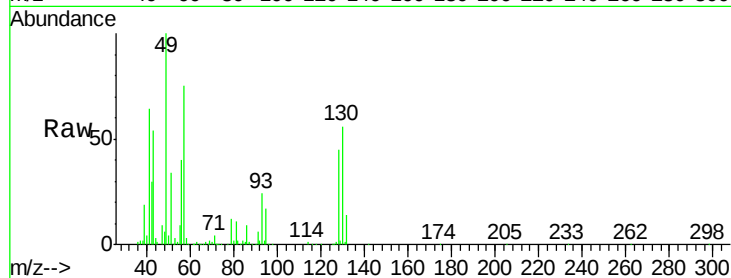




#26
Hexane
Concen: 1.364 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. -0.00 min
Lab File: VL032273.D
Acq: 18 Jul 2018 23:08

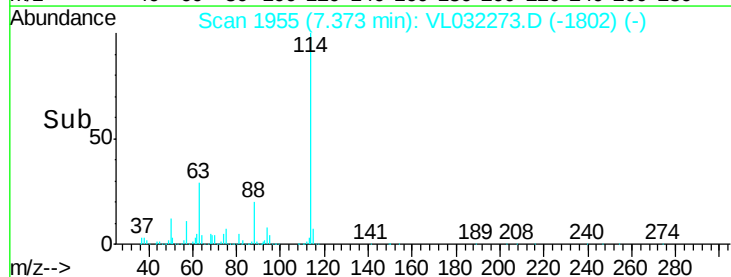
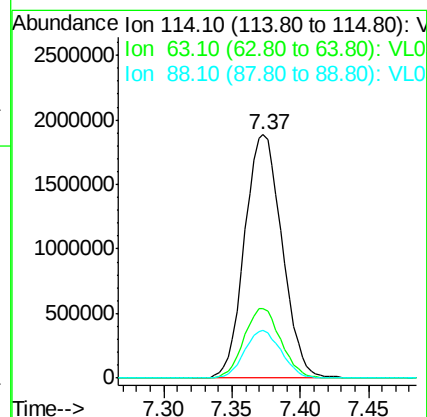
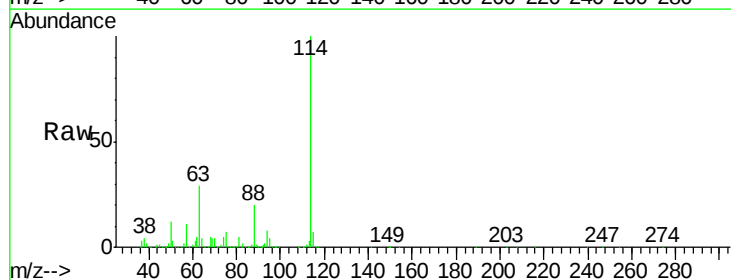
Instrument :
MSVOA_L
ClientSampleId :

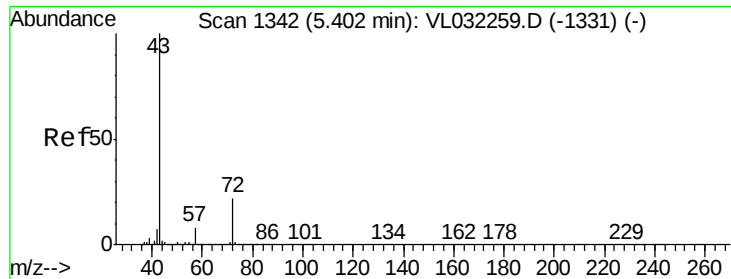
Tot Ion: 57 Resp: 246372
Ion Ratio Lower Upper
57 100
41 89.7 67.9 101.9
43 75.8 175.9 263.9#
56 57.1 41.9 62.9



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.37 min Scan# 1955
Delta R.T. -0.01 min
Lab File: VL032273.D
Acq: 18 Jul 2018 23:08

Tgt Ion:114 Resp: 3595002
Ion Ratio Lower Upper
114 100
63 28.4 22.6 33.8
88 19.2 15.2 22.8

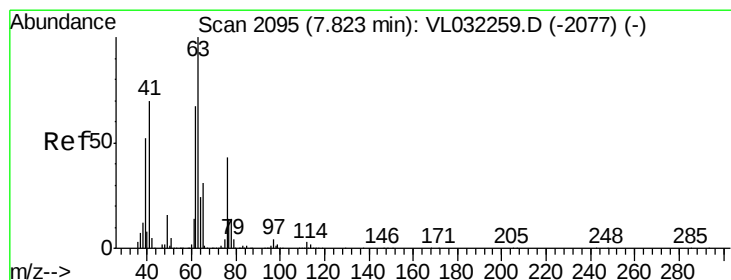
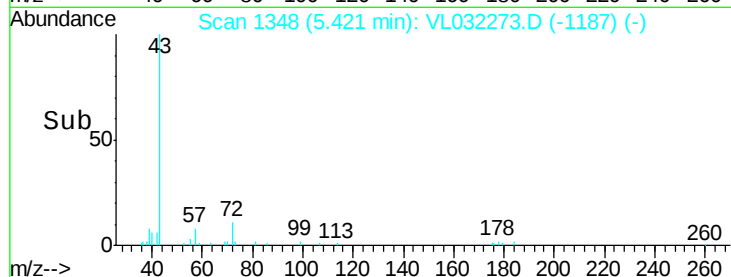
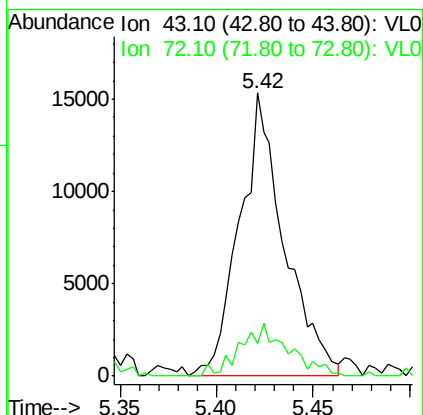
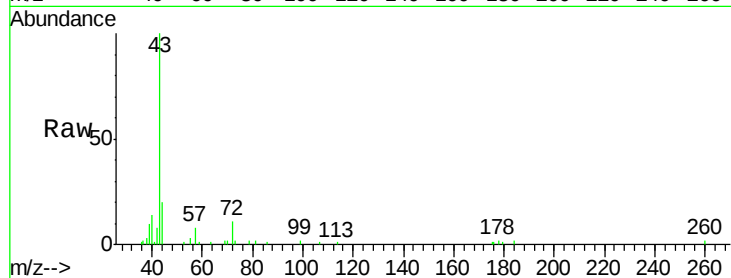




#34
2-Butanone
Concen: 0.100 ppbv
RT: 5.42 min Scan# 1348
Delta R.T. 0.02 min
Lab File: VL032273.D
Acq: 18 Jul 2018 23:08

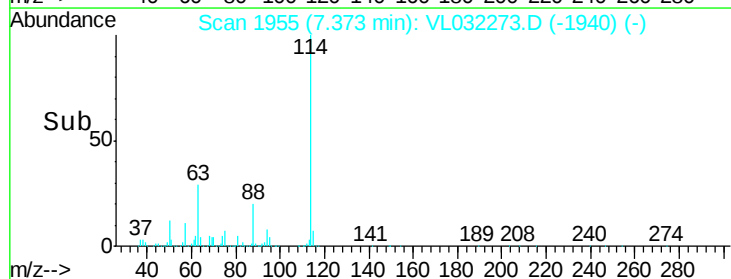
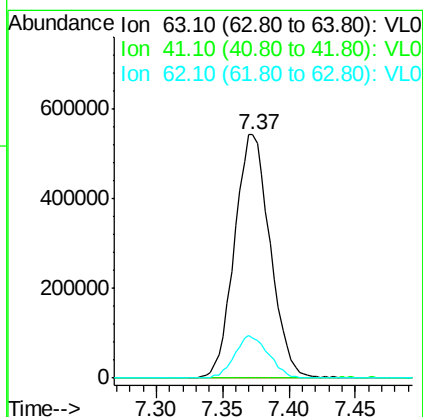
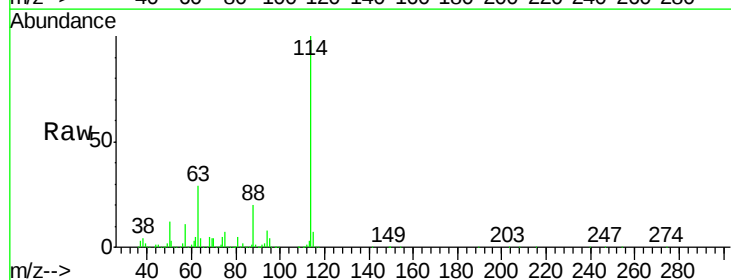
Instrument :
MSVOA_L
ClientSampleId :

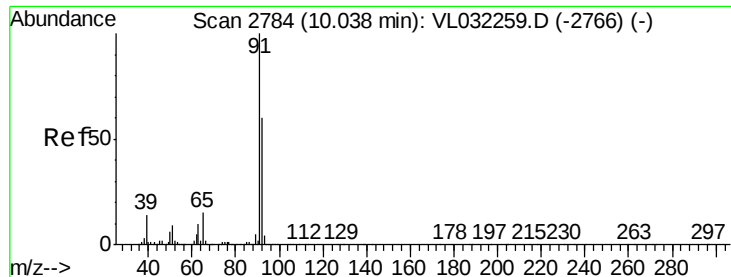
Tot Ion: 43 Resp: 24688
Ion Ratio Lower Upper
43 100
72 19.9 17.7 26.5



#39
1,2-Dichloropropane
Concen: 7.228 ppbv
RT: 7.37 min Scan# 1955
Delta R.T. -0.45 min
Lab File: VL032273.D
Acq: 18 Jul 2018 23:08

Tgt Ion: 63 Resp: 1012622
Ion Ratio Lower Upper
63 100
41 0.0 55.8 83.6#
62 16.2 53.8 80.8#





#53

Toluene

Concen: 0.038 ppbv

RT: 10.03 min Scan# 2783

Delta R.T. -0.00 min

Lab File: VL032273.D

Acq: 18 Jul 2018 23:08

Instrument :

MSVOA_L

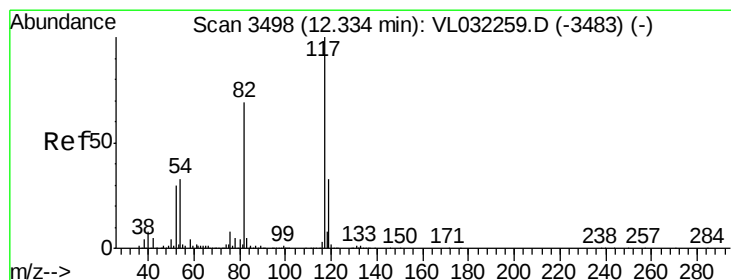
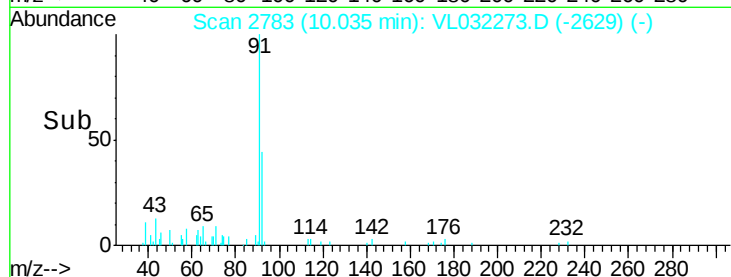
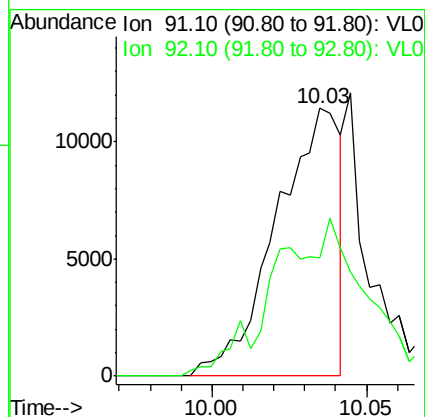
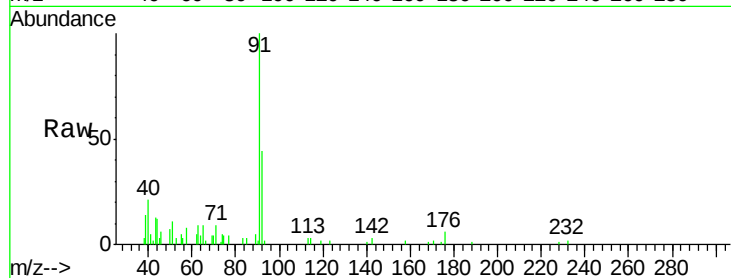
ClientSampleId :

Tot Ion: 91 Resp: 16445

Ion Ratio Lower Upper

91 100

92 85.6 48.6 72.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.33 min Scan# 3496

Delta R.T. -0.01 min

Lab File: VL032273.D

Acq: 18 Jul 2018 23:08

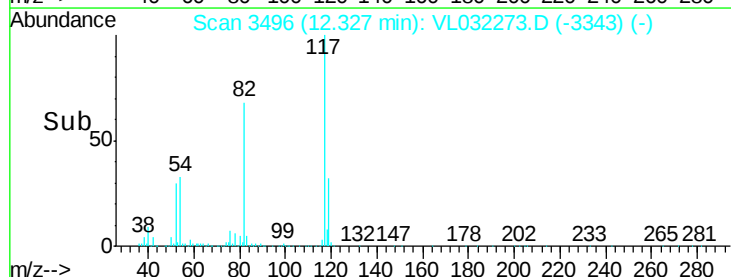
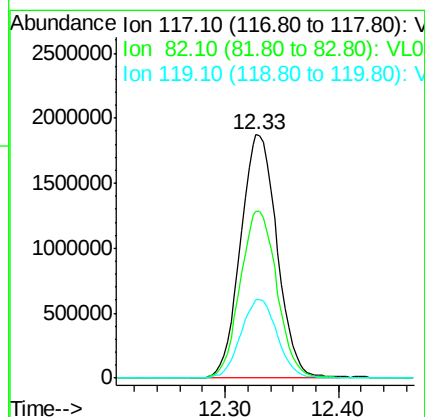
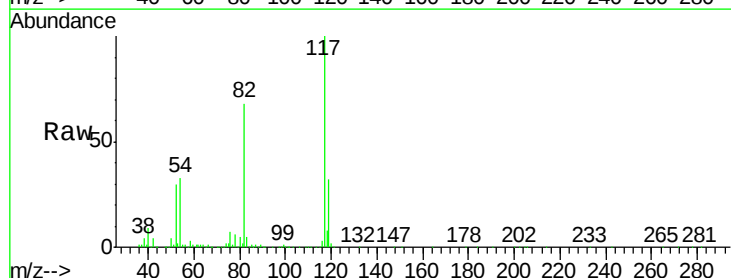
Tgt Ion: 117 Resp: 4205011

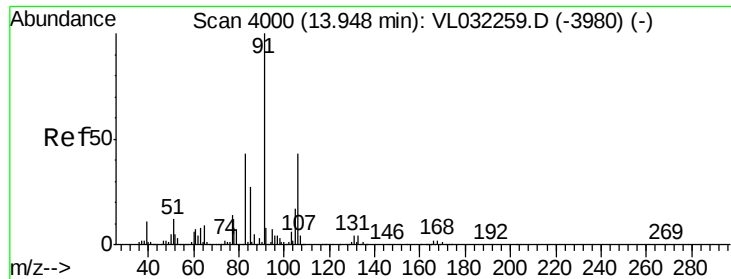
Ion Ratio Lower Upper

117 100

82 69.7 53.9 80.9

119 32.4 25.5 38.3





#60

o-Xylene

Concen: 0.022 ppbv

RT: 13.94 min Scan# 3997

Delta R.T. -0.01 min

Lab File: VL032273.D

Acq: 18 Jul 2018 23:08

Instrument :

MSVOA_L

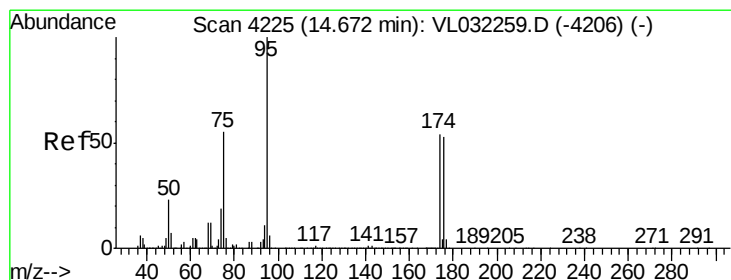
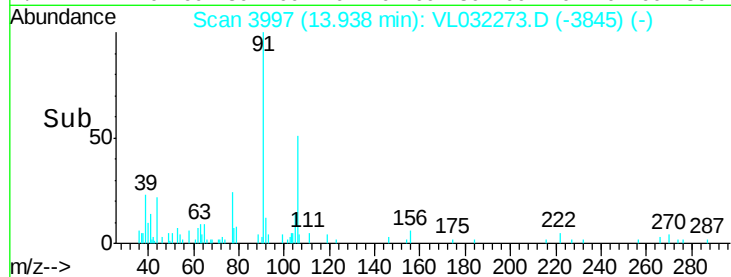
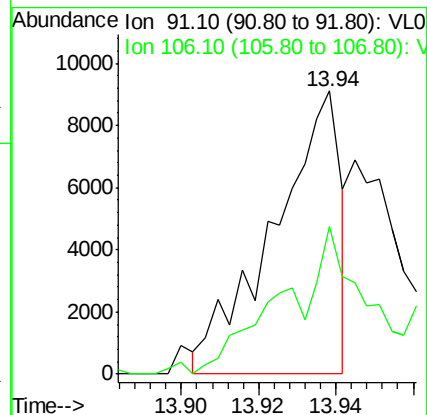
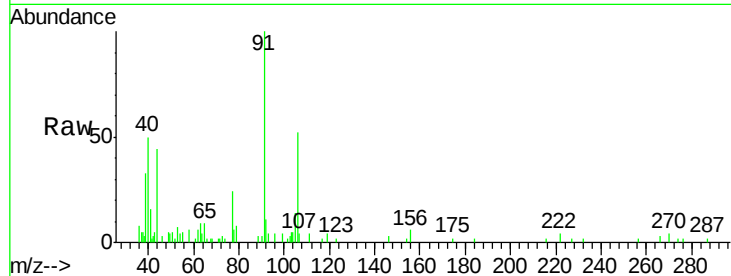
ClientSampled :

Tot Ion: 91 Resp: 10918

Ion Ratio Lower Upper

91 100

106 73.1 21.7 65.1#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.687 ppbv

RT: 14.67 min Scan# 4224

Delta R.T. -0.00 min

Lab File: VL032273.D

Acq: 18 Jul 2018 23:08

Tgt Ion: 95 Resp: 3302545

Ion Ratio Lower Upper

95 100

174 55.9 44.3 66.5

175 4.1 3.3 4.9

