

Data File : VL032150.D
Acq On : 29 Jun 2018 21:14
Operator : SY/AP
Sample : VSTDICC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jun 29 21:39:49 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 20:36:18 2018
QLast Update : Fri Jun 29 20:36:18 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1819357	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	4379837	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	4064155	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	3030498	10.03	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

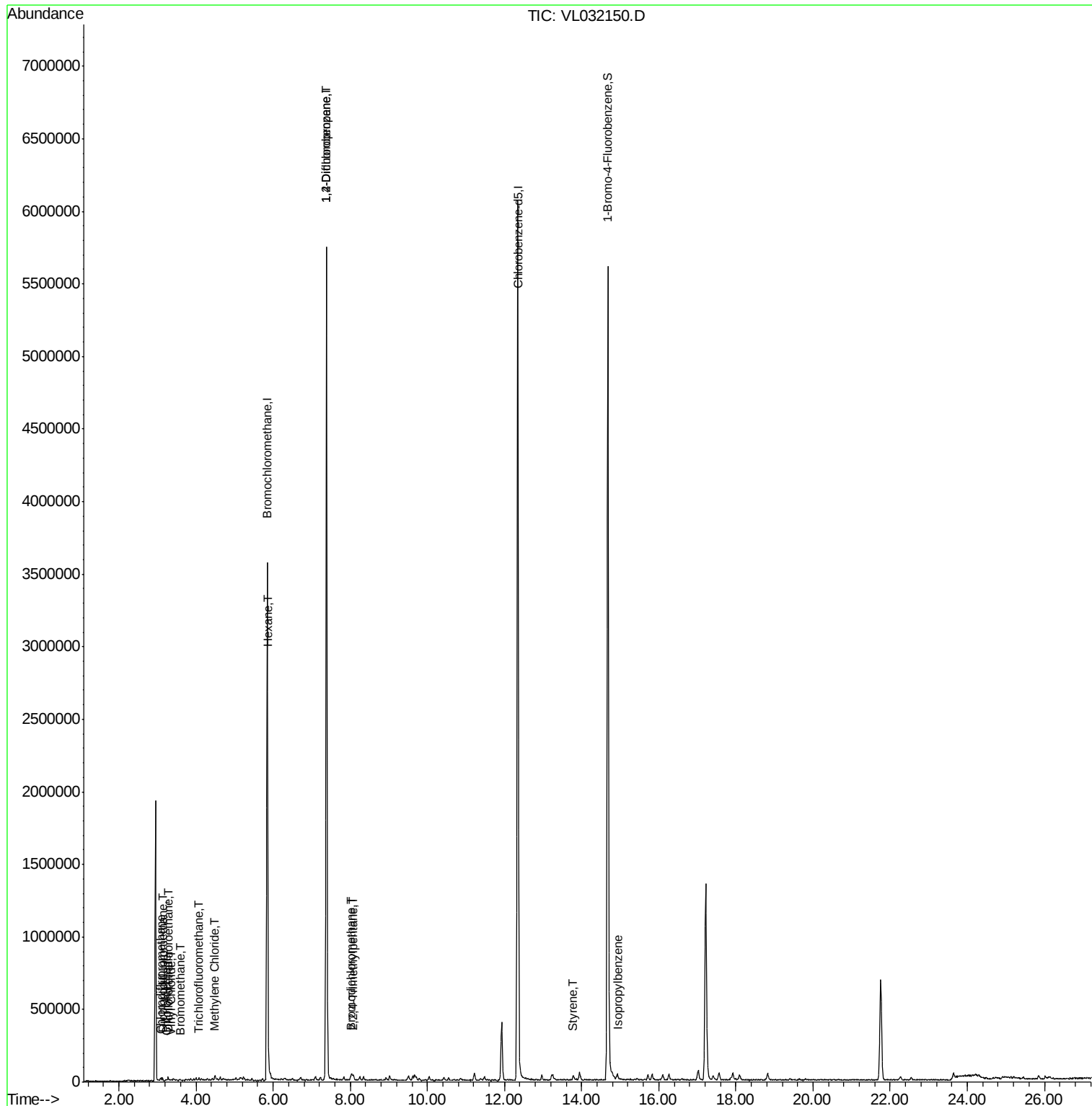
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.13	85	12272	0.064	ppbv	99
3) Chlorodifluoromethane	3.08	51	8292	0.035	ppbv #	88
4) Chloromethane	3.23	50	4260	0.034	ppbv #	65
5) Vinyl Chloride	3.36	62	3929	0.030	ppbv #	76
6) Bromomethane	3.58	94	2709	0.036	ppbv #	51
8) Dichlorotetrafluoroethane	3.28	85	10583	0.040	ppbv	98
11) Trichlorofluoromethane	4.08	101	9669	0.038	ppbv #	61
20) Methylene Chloride	4.48	84	5223	0.064	ppbv #	89
26) Hexane	5.86	57	9906	0.042	ppbv #	87
39) 1,2-Dichloropropane	7.38	63	1106762	6.347	ppbv #	27
42) Bromodichloromethane	8.01	83	10773	0.033	ppbv #	53
44) 2,2,4-Trimethylpentane	8.08	57	25774	0.033	ppbv #	80
61) Styrene	13.78	104	6971	0.042	ppbv #	4
62) Isopropylbenzene	14.93	105	26171	0.035	ppbv #	83

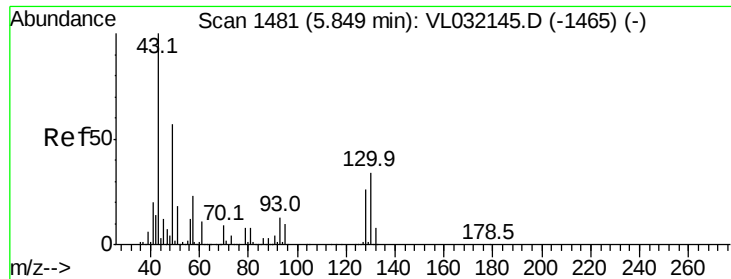
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.85 min Scan# 1480

Delta R.T. -0.02 min

Lab File: VL032150.D

Acq: 29 Jun 2018 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

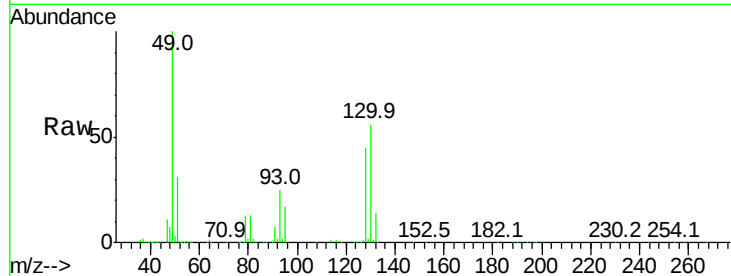
Tgt Ion: 49 Resp: 1819357

Ion	Ratio	Lower	Upper
49	100		
128	46.0	23.4	70.0
130	58.7	30.3	90.9

49 100

128 46.0 23.4 70.0

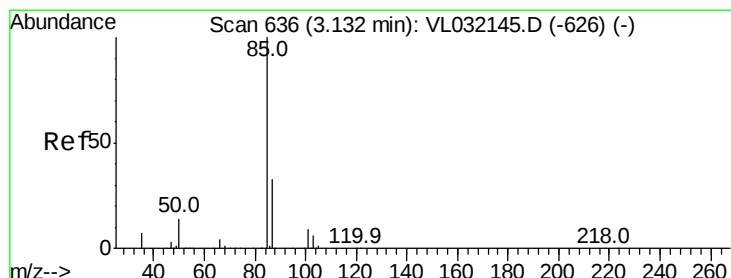
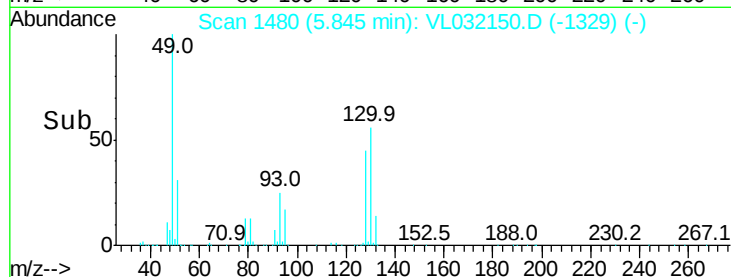
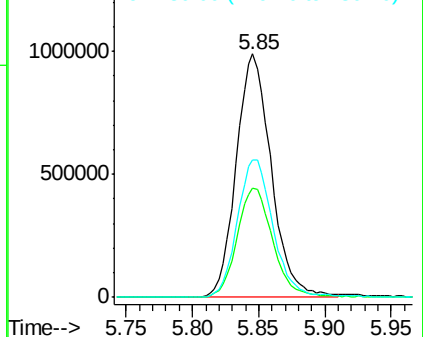
130 58.7 30.3 90.9



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: 0.064 ppbv

RT: 3.13 min Scan# 637

Delta R.T. -0.01 min

Lab File: VL032150.D

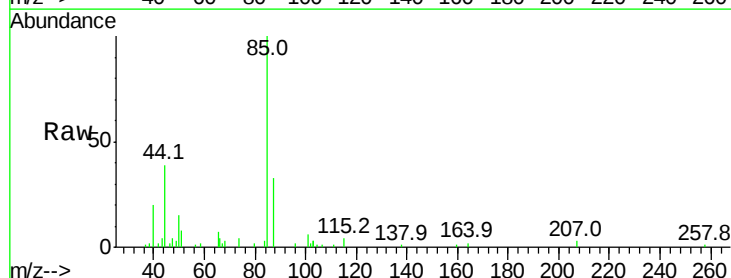
Acq: 29 Jun 2018 21:14

Tgt Ion: 85 Resp: 12272

Ion	Ratio	Lower	Upper
85	100		
87	34.0	26.7	40.1

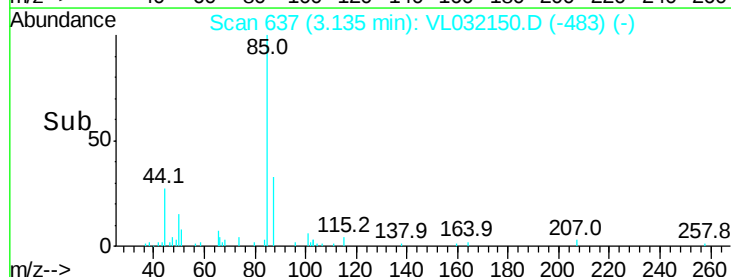
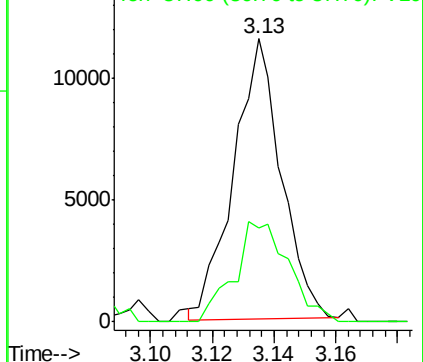
85 100

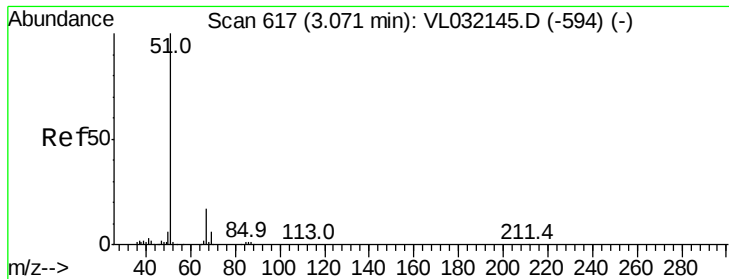
87 34.0 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.035 ppbv

RT: 3.08 min Scan# 619

Delta R.T. 0.00 min

Lab File: VL032150.D

Acq: 29 Jun 2018 21:14

Instrument :

MSVOA_L

ClientSampleId :

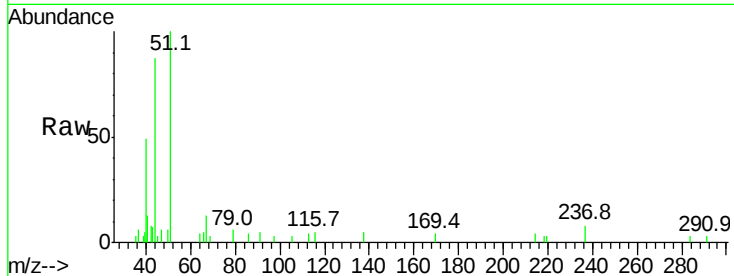
VSTDIC0.03

Tgt Ion: 51 Resp: 8292

Ion Ratio Lower Upper

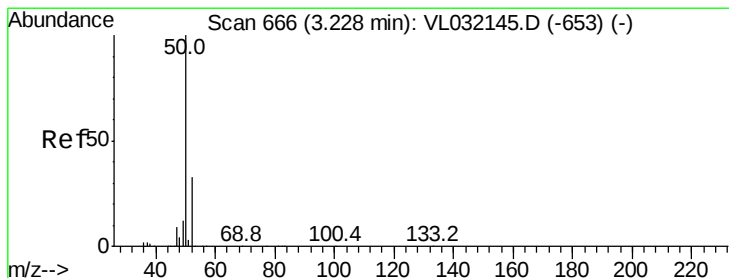
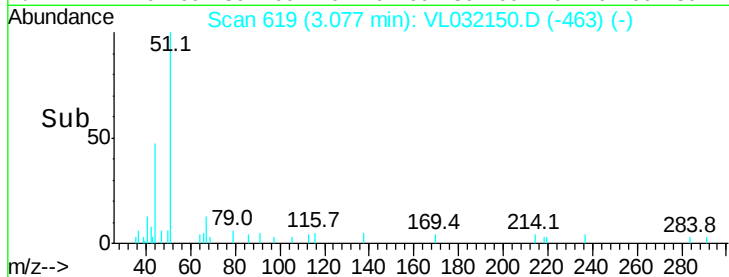
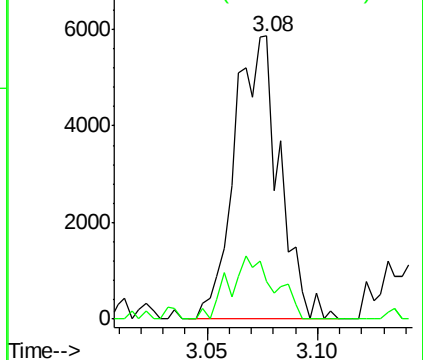
51 100

67 21.7 13.2 19.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.034 ppbv

RT: 3.23 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL032150.D

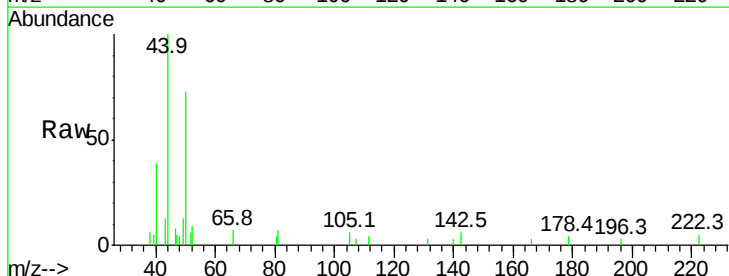
Acq: 29 Jun 2018 21:14

Tgt Ion: 50 Resp: 4260

Ion Ratio Lower Upper

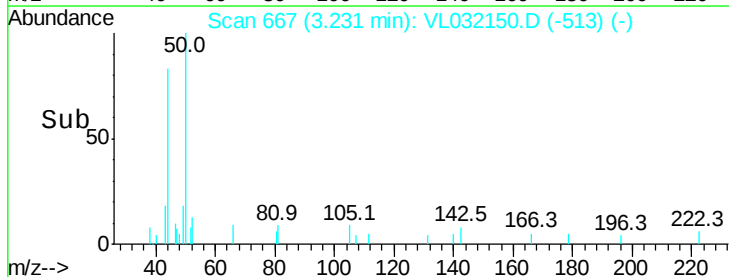
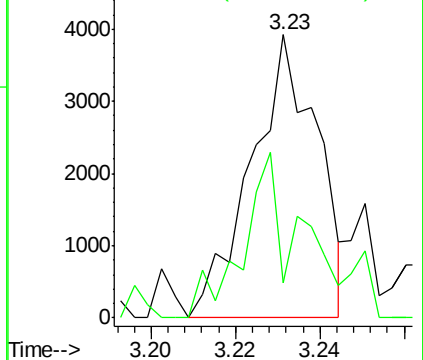
50 100

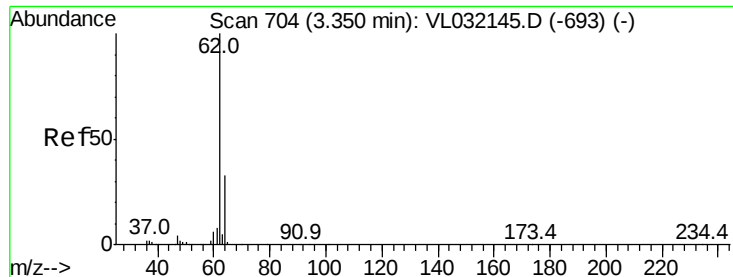
52 12.6 26.0 39.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.030 ppbv

RT: 3.36 min Scan# 706

Delta R.T. 0.00 min

Lab File: VL032150.D

Acq: 29 Jun 2018 21:14

Instrument :

MSVOA_L

ClientSampleId :

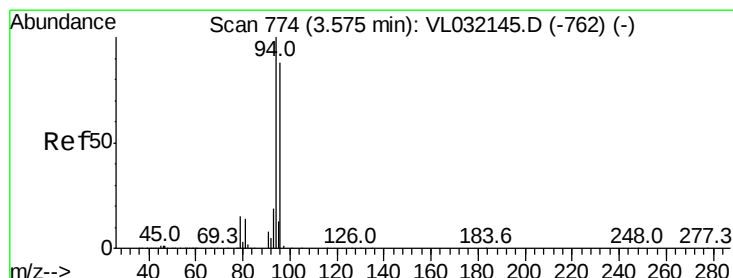
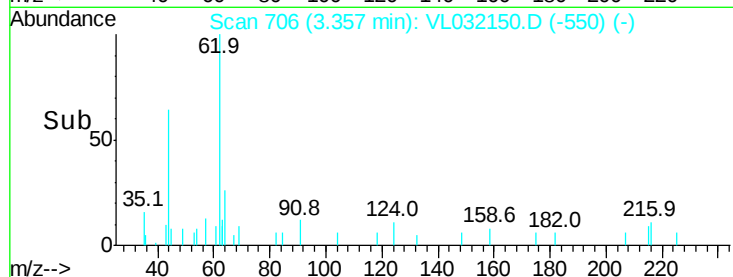
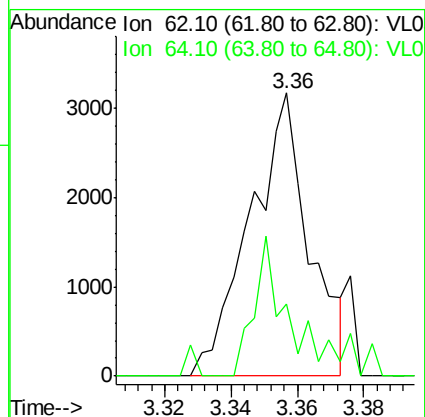
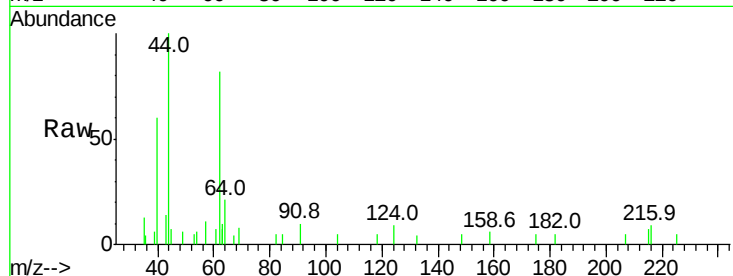
VSTDIC0.03

Tgt Ion: 62 Resp: 3929

Ion Ratio Lower Upper

62 100

64 18.9 26.1 39.1#



#6

Bromomethane

Concen: 0.036 ppbv

RT: 3.58 min Scan# 776

Delta R.T. -0.00 min

Lab File: VL032150.D

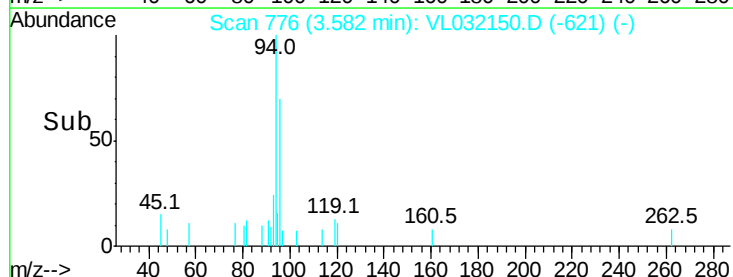
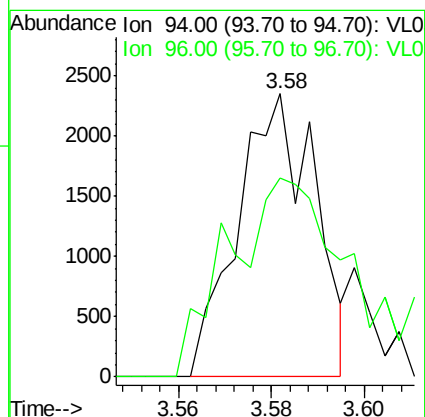
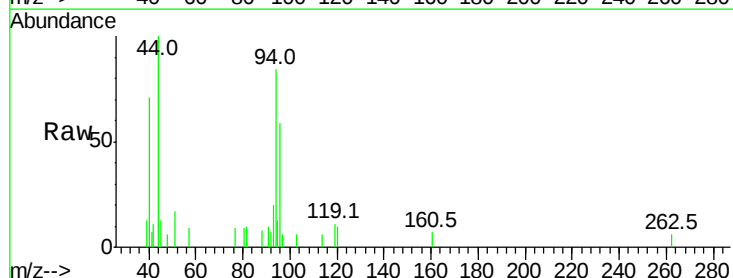
Acq: 29 Jun 2018 21:14

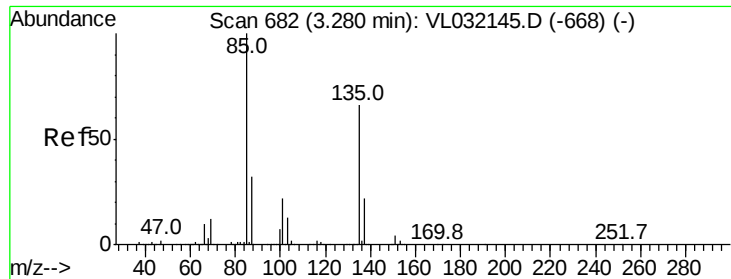
Tgt Ion: 94 Resp: 2709

Ion Ratio Lower Upper

94 100

96 46.2 74.7 112.1#





#8

Dichlorotetrafluoroethane

Concen: 0.040 ppbv

RT: 3.28 min Scan# 682

Delta R.T. -0.01 min

Lab File: VL032150.D

Acq: 29 Jun 2018 21:14

Instrument :

MSVOA_L

ClientSampleId :

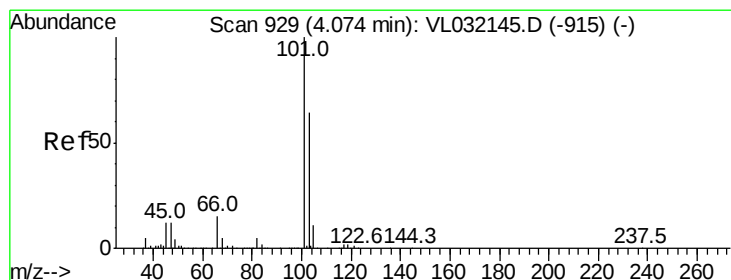
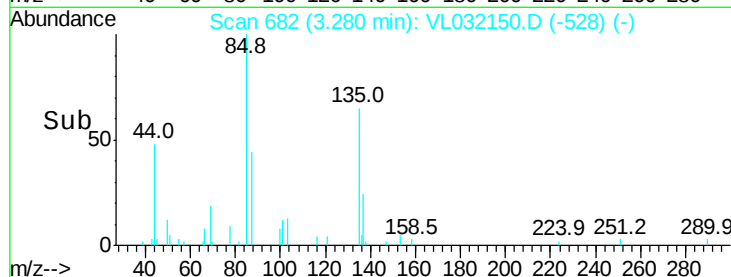
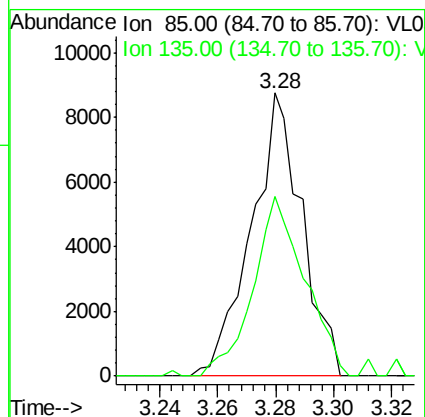
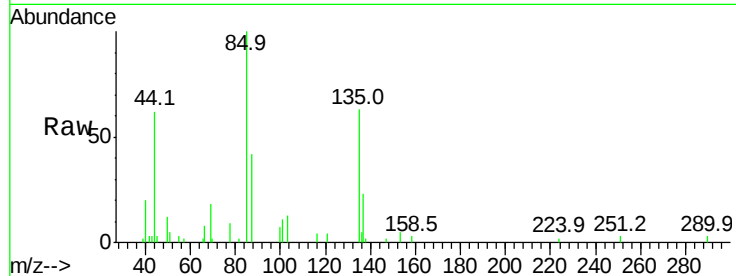
VSTDIC0.03

Tgt Ion: 85 Resp: 10583

Ion Ratio Lower Upper

85 100

135 66.3 54.6 82.0



#11

Trichlorofluoromethane

Concen: 0.038 ppbv

RT: 4.08 min Scan# 930

Delta R.T. -0.01 min

Lab File: VL032150.D

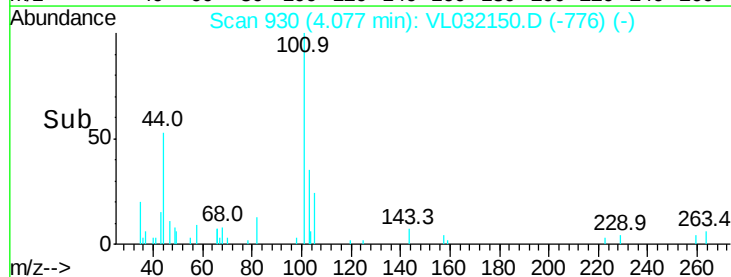
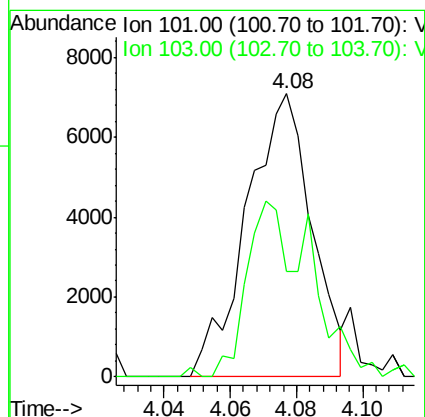
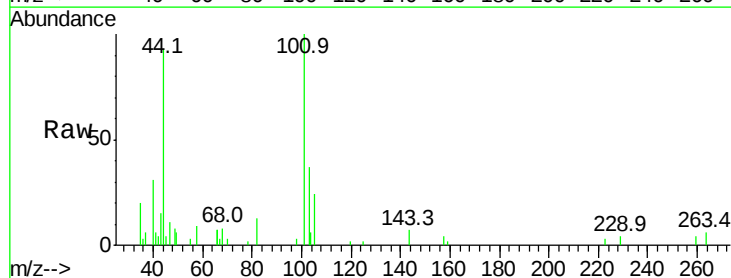
Acq: 29 Jun 2018 21:14

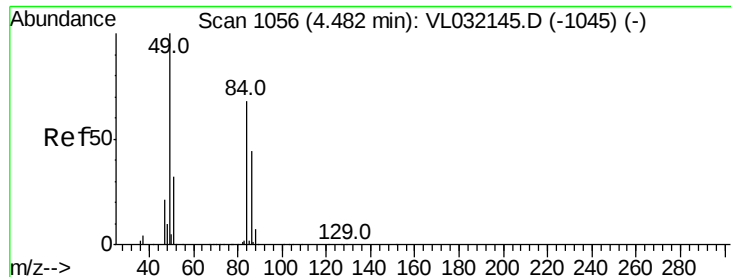
Tgt Ion: 101 Resp: 9669

Ion Ratio Lower Upper

101 100

103 33.8 51.4 77.0#

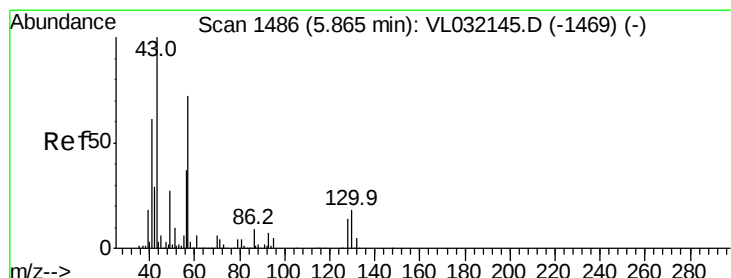
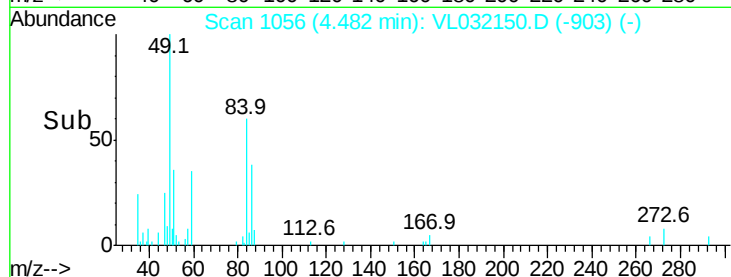
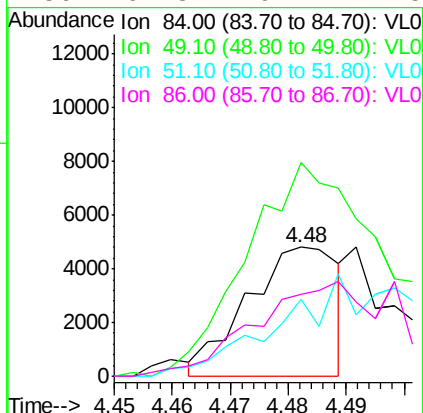
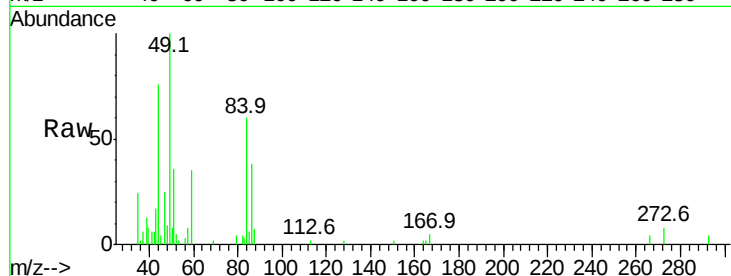




#20
Methylene Chloride
Concen: 0.064 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. -0.01 min
Lab File: VL032150.D
Acq: 29 Jun 2018 21:14

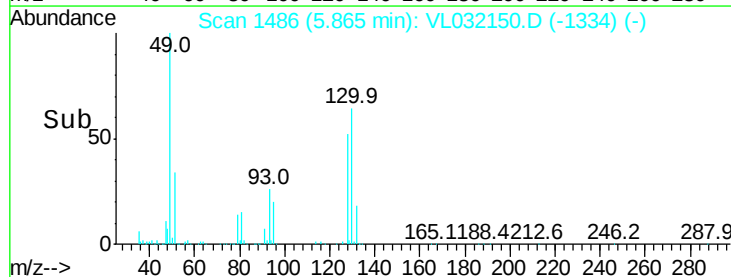
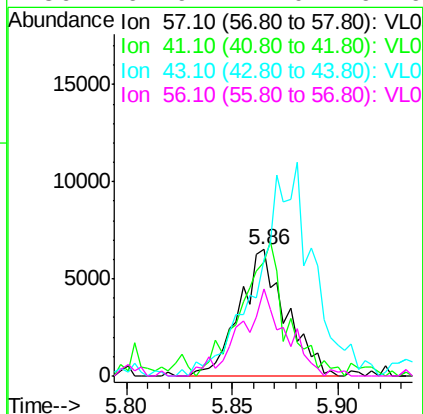
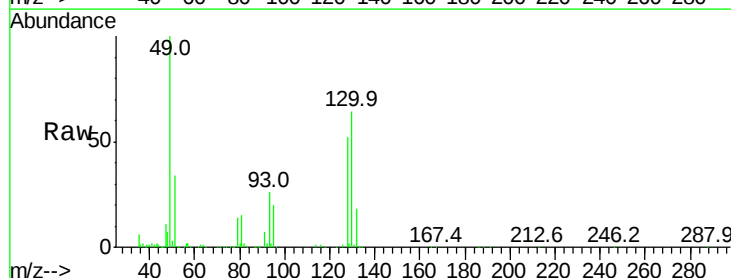
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

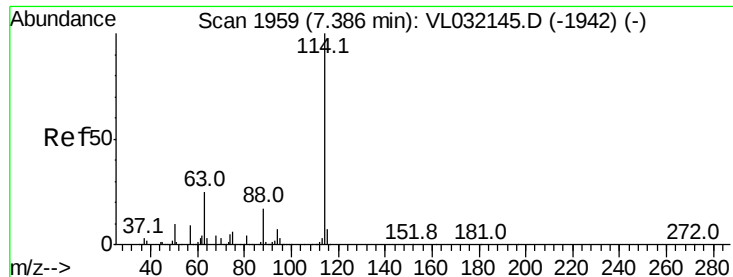
Tgt Ion: 84 Resp: 5223
Ion Ratio Lower Upper
84 100
49 164.3 119.6 179.4
51 58.8 36.3 54.5#
86 61.3 49.7 74.5



#26
Hexane
Concen: 0.042 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032150.D
Acq: 29 Jun 2018 21:14

Tgt Ion: 57 Resp: 9906
Ion Ratio Lower Upper
57 100
41 114.8 68.6 103.0#
43 206.6 168.6 252.8
56 67.9 41.0 61.6#

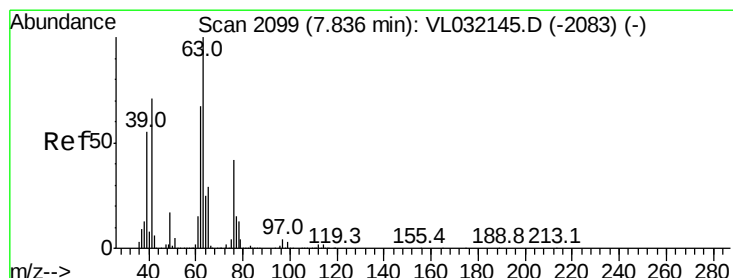
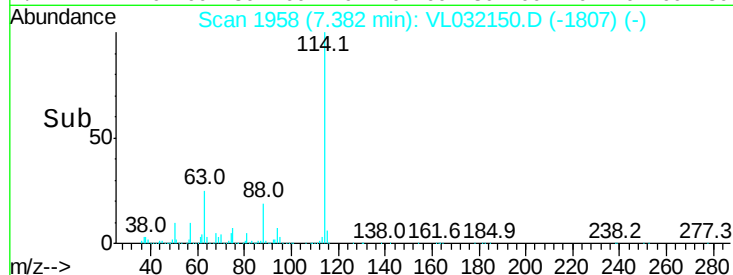
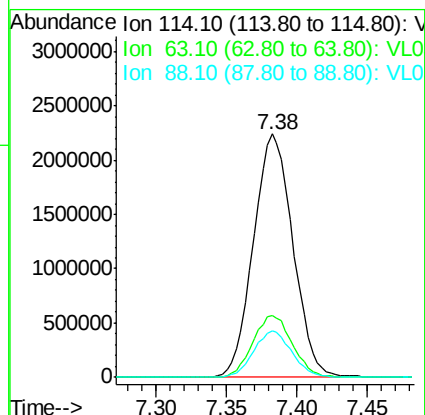
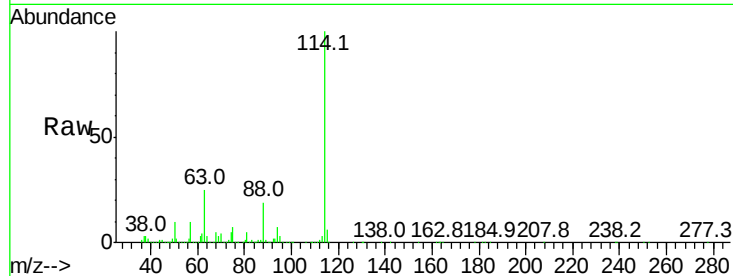




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.02 min
 Lab File: VL032150.D
 Acq: 29 Jun 2018 21:14

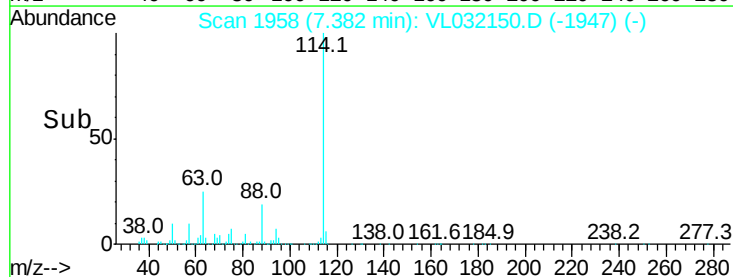
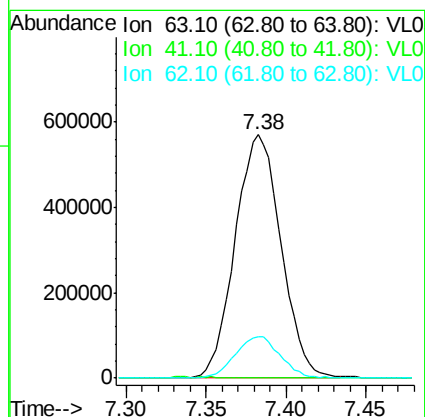
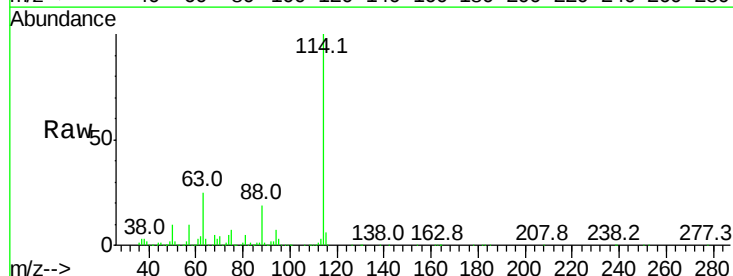
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

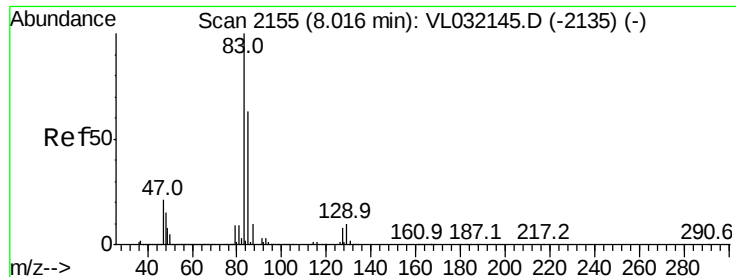
Tgt Ion:114 Resp: 4379837
 Ion Ratio Lower Upper
 114 100
 63 25.7 19.1 28.7
 88 18.6 13.9 20.9



#39
 1,2-Dichloropropane
 Concen: 6.347 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.47 min
 Lab File: VL032150.D
 Acq: 29 Jun 2018 21:14

Tgt Ion: 63 Resp: 1106762
 Ion Ratio Lower Upper
 63 100
 41 0.0 53.3 79.9#
 62 16.9 54.8 82.2#





#42

Bromodichloromethane

Concen: 0.033 ppbv

RT: 8.01 min Scan# 2153

Delta R.T. -0.02 min

Lab File: VL032150.D

Acq: 29 Jun 2018 21:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

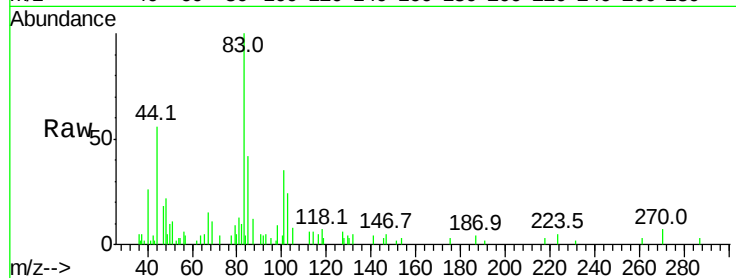
Tgt Ion: 83 Resp: 10773

Ion Ratio Lower Upper

83 100

85 24.2 52.6 79.0#

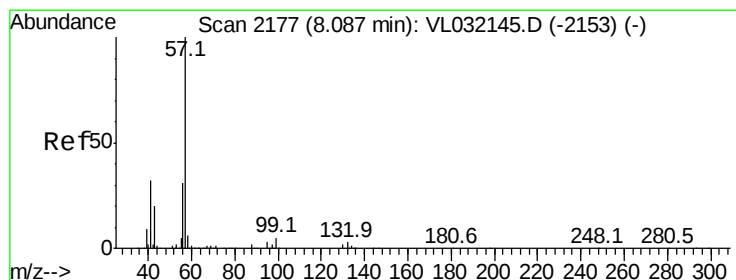
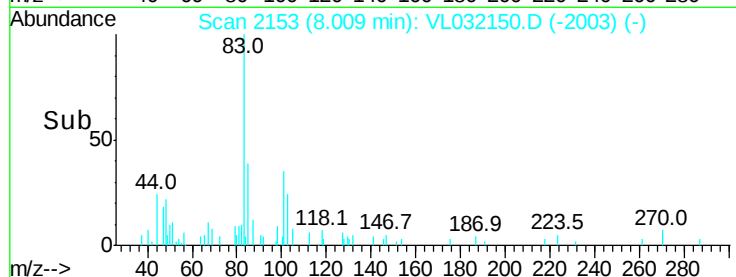
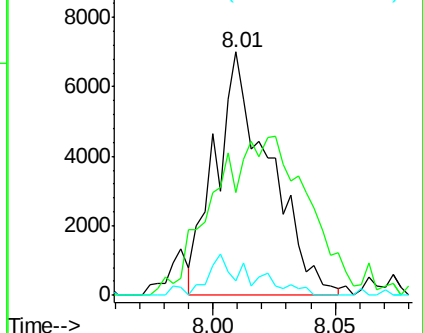
127 5.8 6.5 9.7#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.033 ppbv

RT: 8.08 min Scan# 2176

Delta R.T. -0.02 min

Lab File: VL032150.D

Acq: 29 Jun 2018 21:14

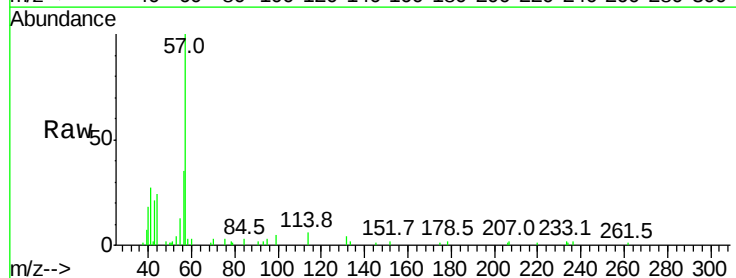
Tgt Ion: 57 Resp: 25774

Ion Ratio Lower Upper

57 100

41 41.4 24.3 36.5#

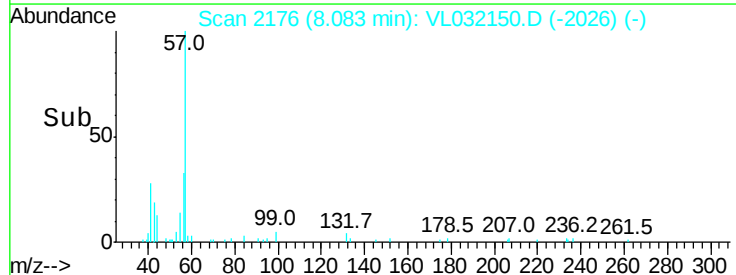
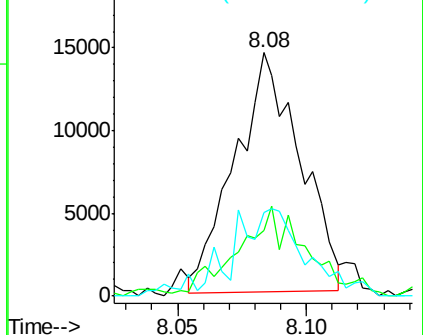
56 42.0 25.1 37.7#

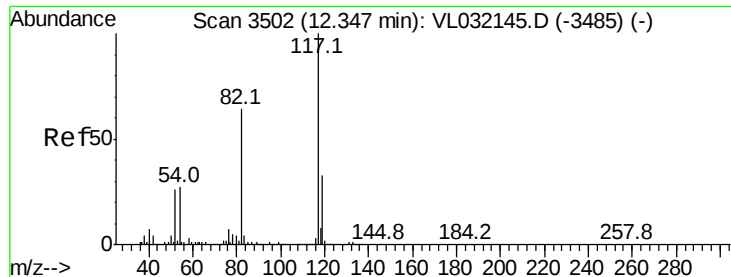


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

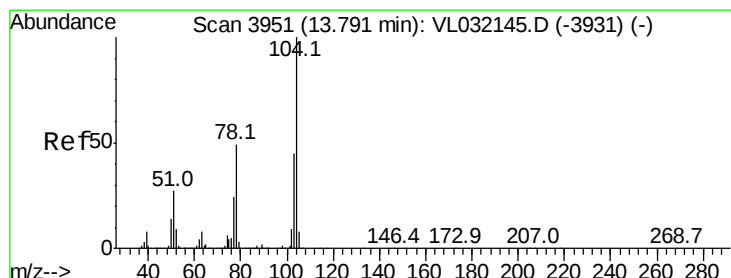
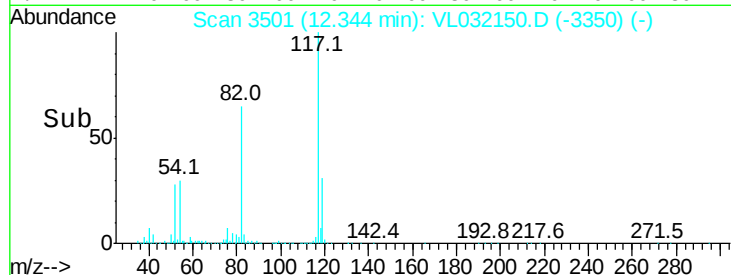
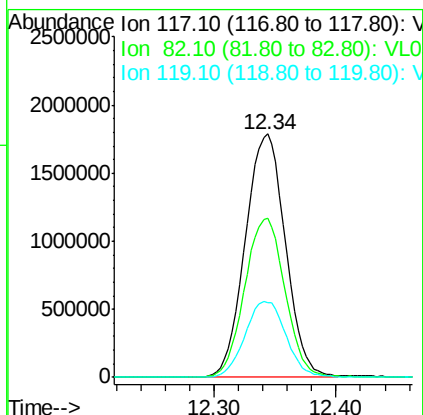
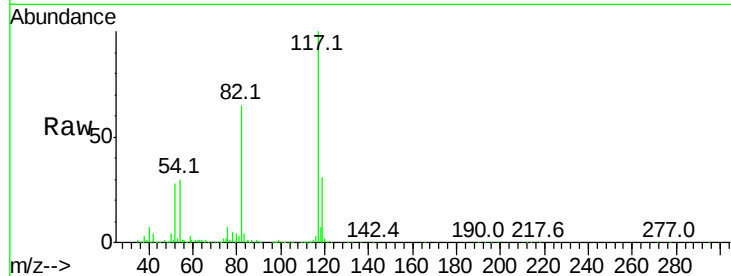




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.34 min Scan# 3501
Delta R.T. -0.02 min
Lab File: VL032150.D
Acq: 29 Jun 2018 21:14

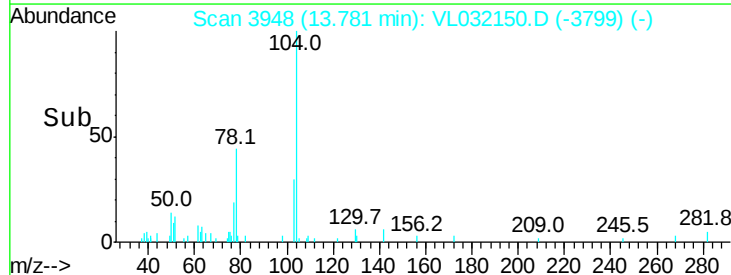
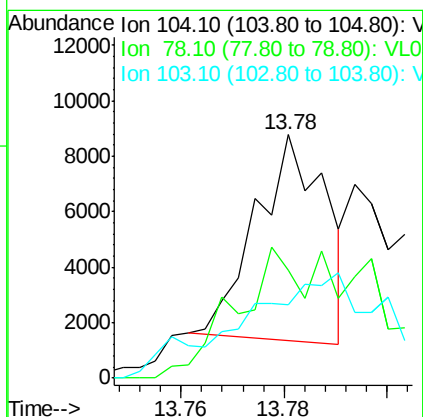
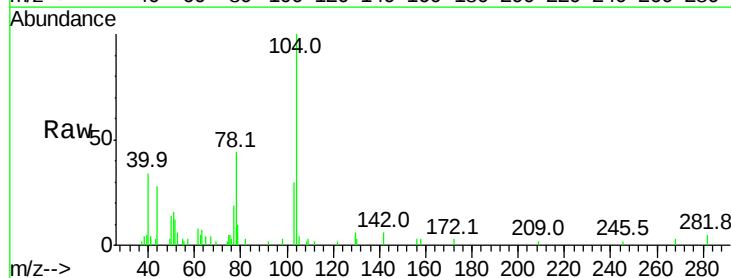
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

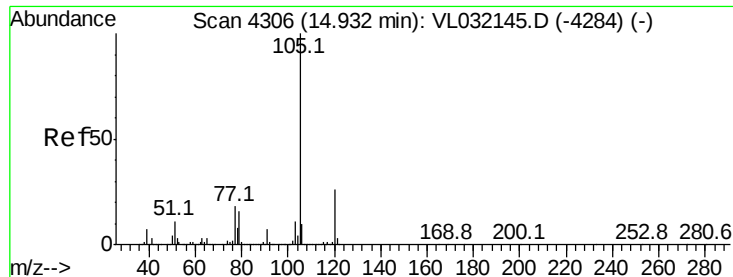
Tgt Ion:117 Resp: 4064155
Ion Ratio Lower Upper
117 100
82 65.9 47.8 71.8
119 32.1 43.3 64.9#



#61
Styrene
Concen: 0.042 ppbv
RT: 13.78 min Scan# 3948
Delta R.T. -0.02 min
Lab File: VL032150.D
Acq: 29 Jun 2018 21:14

Tgt Ion:104 Resp: 6971
Ion Ratio Lower Upper
104 100
78 128.6 37.9 56.9#
103 0.0 36.6 55.0#





#62

Isopropylbenzene

Concen: 0.035 ppbv

RT: 14.93 min Scan# 4306

Delta R.T. -0.02 min

Lab File: VL032150.D

Acq: 29 Jun 2018 21:14

Instrument :

MSVOA_L

ClientSampleId :

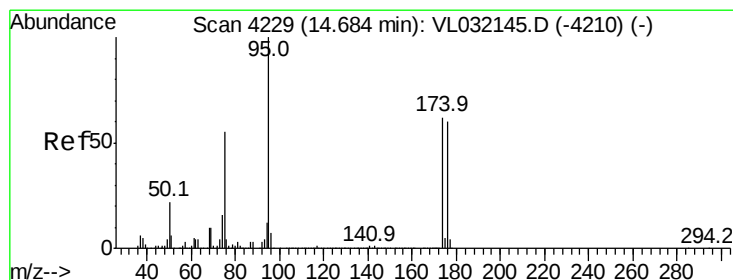
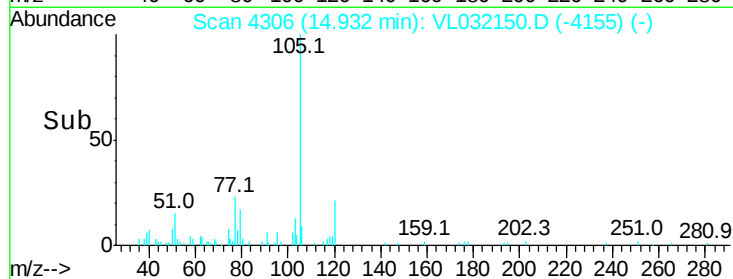
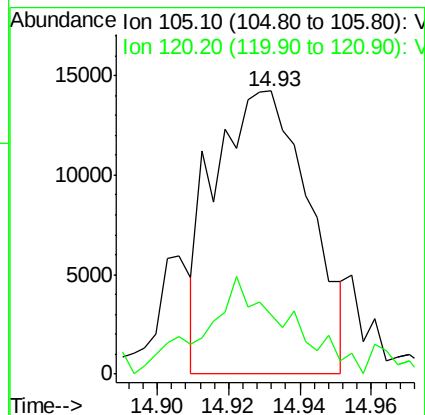
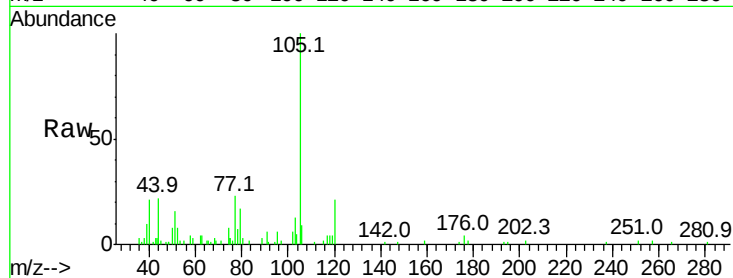
VSTDIC0.03

Tgt Ion: 105 Resp: 26171

Ion Ratio Lower Upper

105 100

120 34.7 21.0 31.4#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.034 ppbv

RT: 14.68 min Scan# 4227

Delta R.T. -0.02 min

Lab File: VL032150.D

Acq: 29 Jun 2018 21:14

Tgt Ion: 95 Resp: 3030498

Ion Ratio Lower Upper

95 100

174 59.2 52.1 78.1

175 4.5 4.0 6.0

