

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071918\
 Data File : VL032303.D
 Acq On : 20 Jul 2018 00:54
 Operator : SY/AP
 Sample : J4029-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 20 02:12:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	5.83	49	1513067	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3136395	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	3650229	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.66	95	2830537	9.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.60%

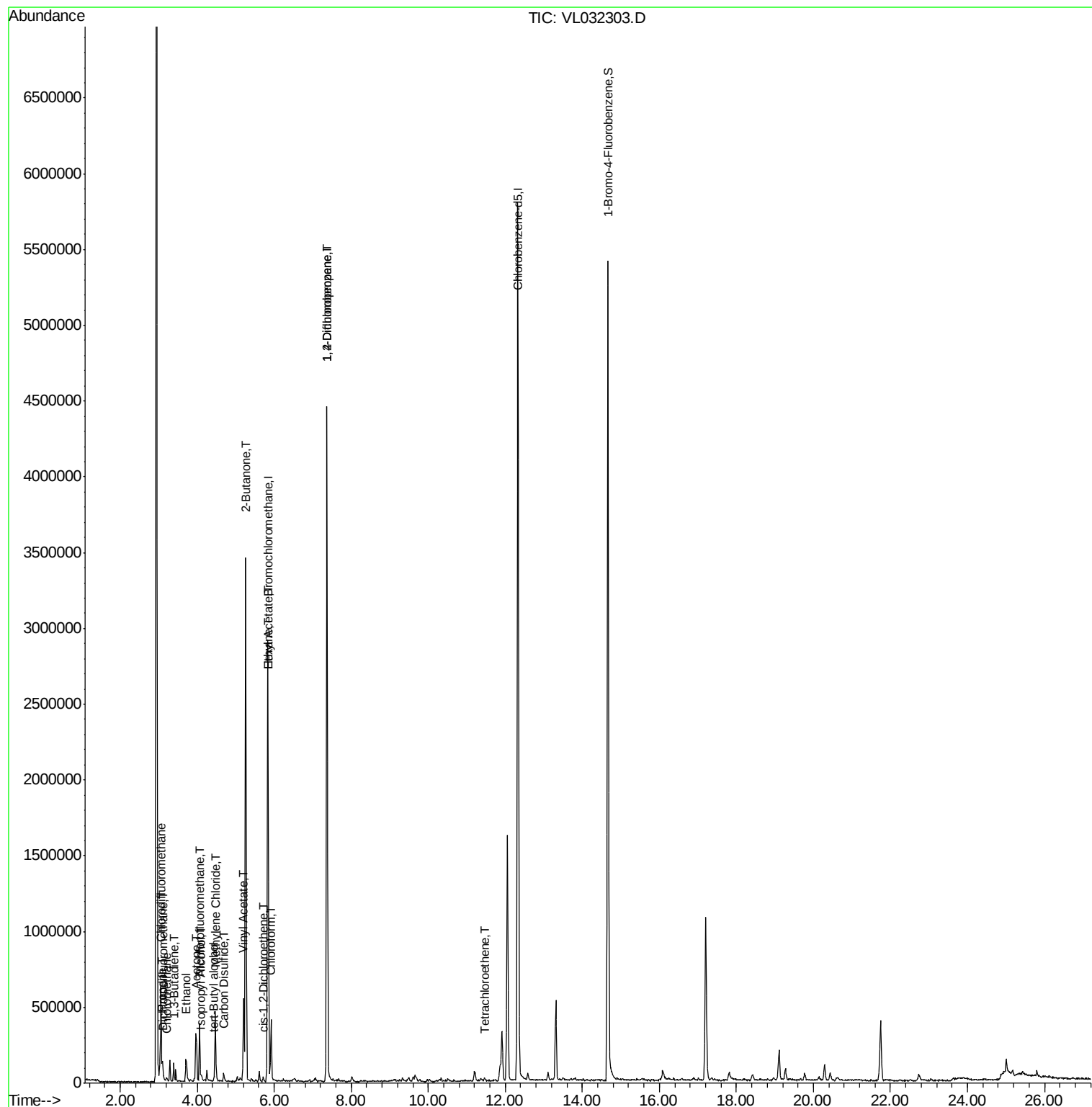
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.13	85	18327	0.071 ppbv	91
3) Chlorodifluoromethane	3.06	51	643907	3.792 ppbv	93
4) Chloromethane	3.22	50	2537	0.025 ppbv	89
9) Propene	3.10	41	23366	0.315 ppbv	86
11) Trichlorofluoromethane	4.06	101	243952	1.213 ppbv	100
13) Ethanol	3.71	45	87745	4.138 ppbv #	28
15) Acetone	3.96	43	345730	2.183 ppbv	91
16) 1,3-Butadiene	3.39	39	29390	0.364 ppbv #	11
17) tert-Butyl alcohol	4.43	59	2053	0.041 ppbv #	72
19) Isopropyl Alcohol	4.11	45	56481	0.527 ppbv #	92
20) Methylene Chloride	4.47	84	151559	2.486 ppbv	91
23) Vinyl Acetate	5.21	43	245259	0.864 ppbv #	6
25) Ethyl Acetate	5.85	43	122106	0.354 ppbv #	79
26) Hexane	5.85	57	163159	1.030 ppbv #	41
27) Carbon Disulfide	4.69	76	59270	0.423 ppbv #	83
29) Chloroform	5.92	83	250338	1.072 ppbv	98
31) cis-1,2-Dichloroethene	5.70	61	6053	0.040 ppbv	90
34) 2-Butanone	5.26	43	1971372	9.160 ppbv #	58
39) 1,2-Dichloropropane	7.37	63	879501	7.196 ppbv #	26
52) Tetrachloroethene	11.46	164	2266	0.021 ppbv #	74

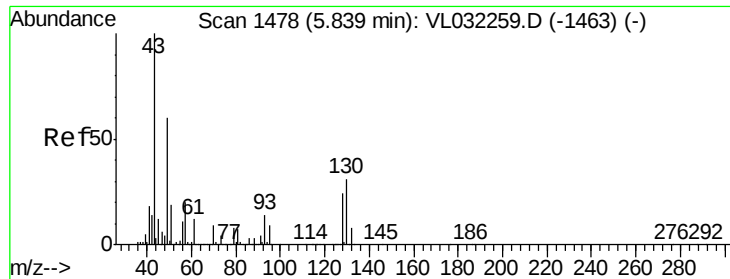
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 18 14:38:53 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1476

Delta R.T. -0.01 min

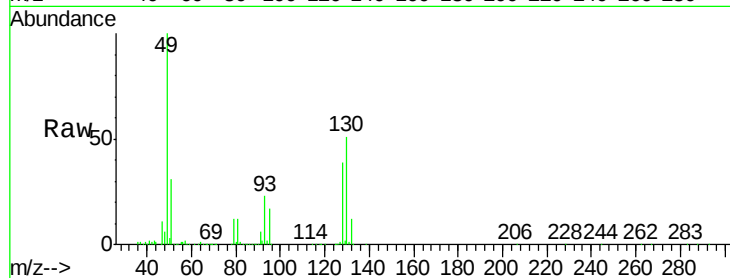
Lab File: VL032303.D

Acq: 20 Jul 2018 00:54

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1513067

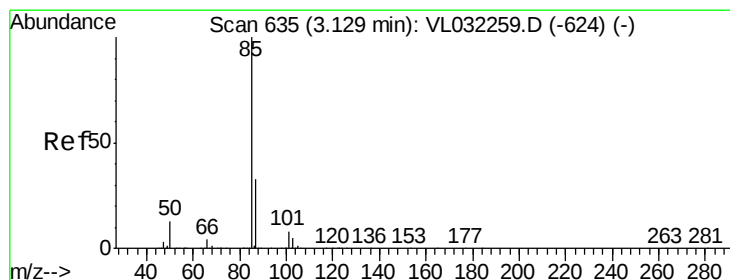
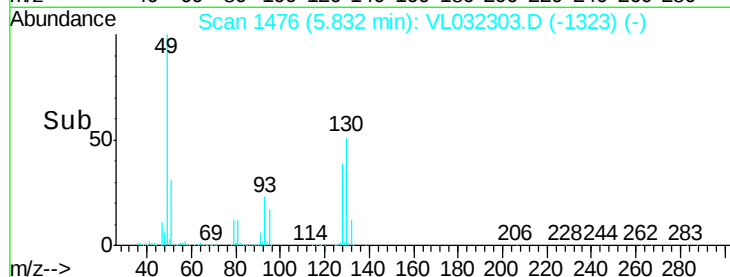
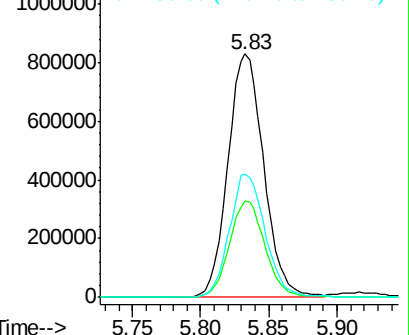
Ion	Ratio	Lower	Upper
49	100		
128	39.4	20.1	60.2
130	50.9	25.9	77.6



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: 0.071 ppbv

RT: 3.13 min Scan# 634

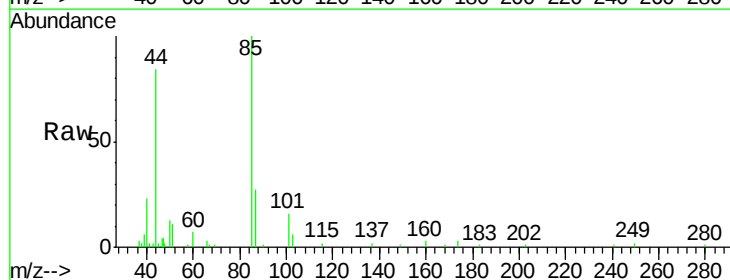
Delta R.T. -0.00 min

Lab File: VL032303.D

Acq: 20 Jul 2018 00:54

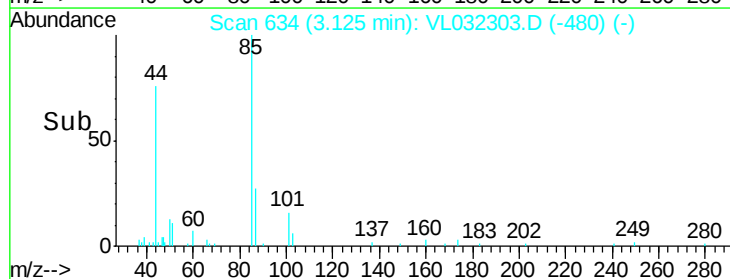
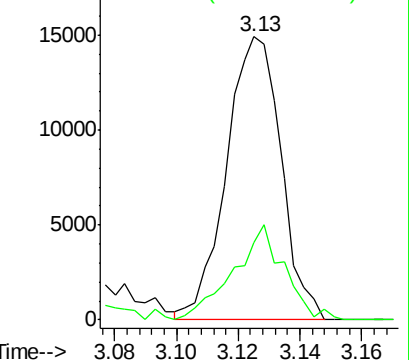
Tgt Ion: 85 Resp: 18327

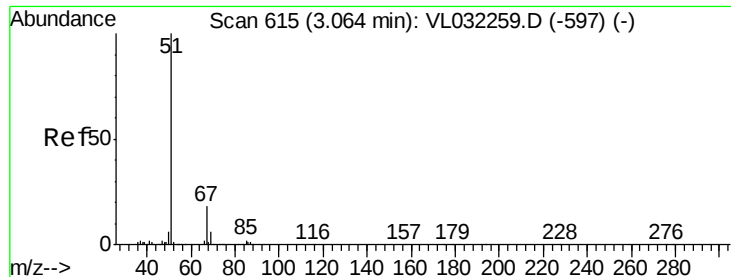
Ion	Ratio	Lower	Upper
85	100		
87	27.4	26.2	39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 3.792 ppbv

RT: 3.06 min Scan# 614

Delta R.T. -0.00 min

Lab File: VL032303.D

Acq: 20 Jul 2018 00:54

Instrument :

MSVOA_L

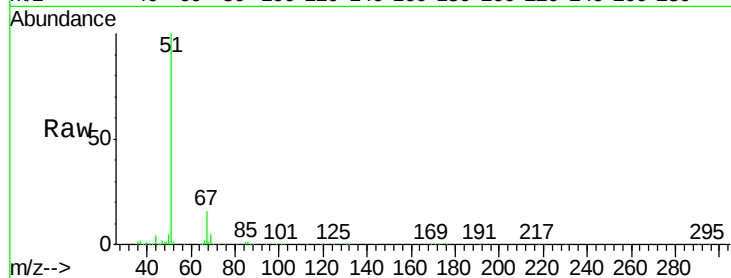
ClientSampleId :

Tot Ion: 51 Resp: 643907

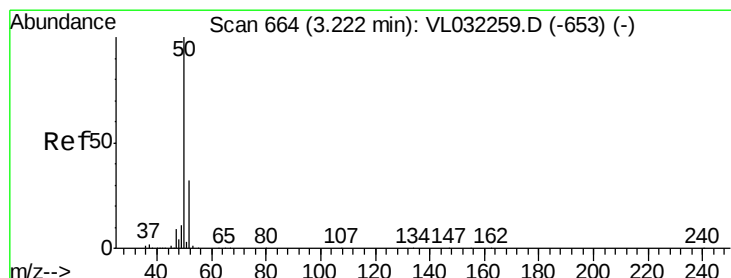
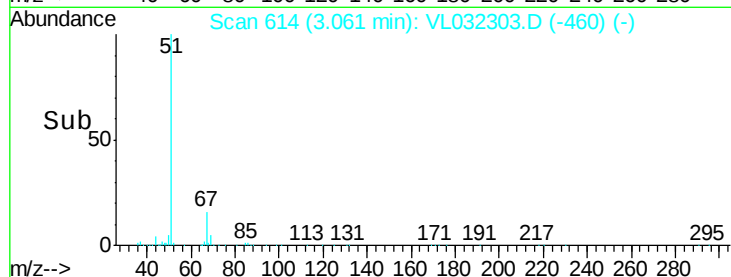
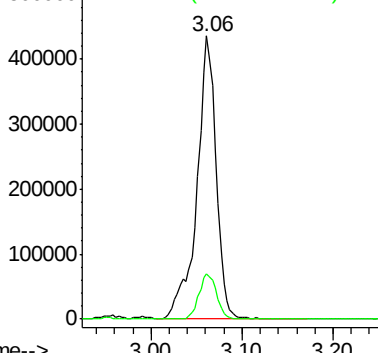
Ion Ratio Lower Upper

51 100

67 14.7 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: 0.025 ppbv

RT: 3.22 min Scan# 662

Delta R.T. -0.01 min

Lab File: VL032303.D

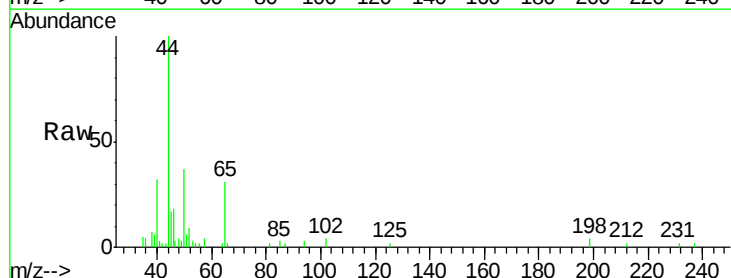
Acq: 20 Jul 2018 00:54

Tgt Ion: 50 Resp: 2537

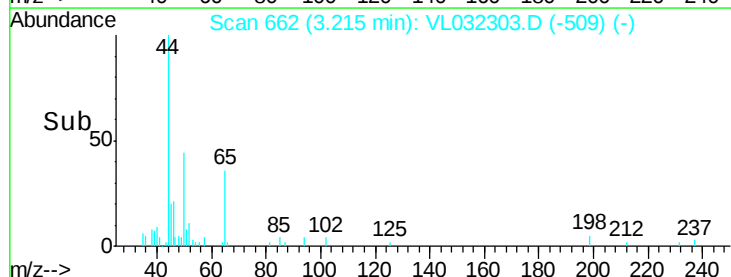
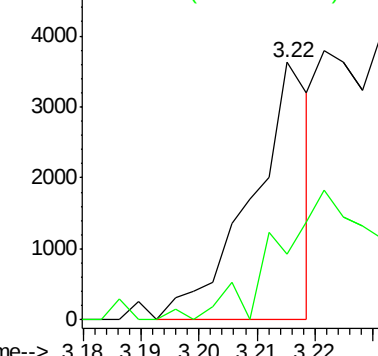
Ion Ratio Lower Upper

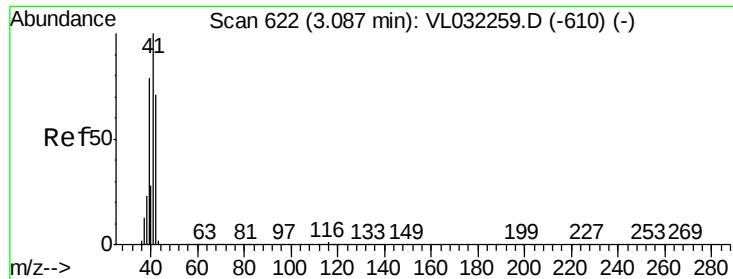
50 100

52 25.6 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: 0.315 ppbv

RT: 3.10 min Scan# 626

Delta R.T. 0.01 min

Lab File: VL032303.D

Acq: 20 Jul 2018 00:54

Instrument :

MSVOA_L

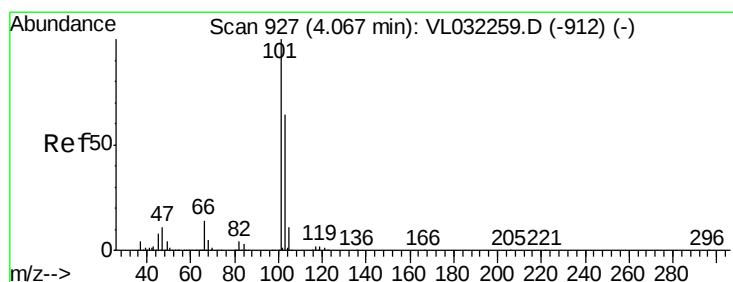
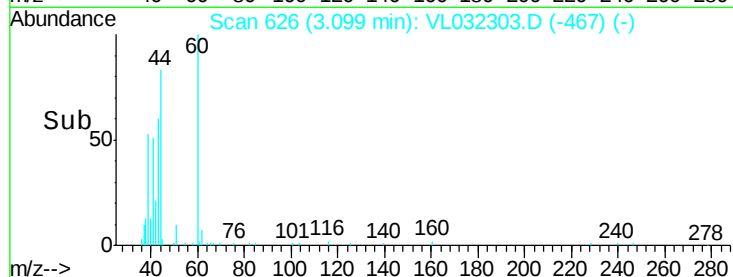
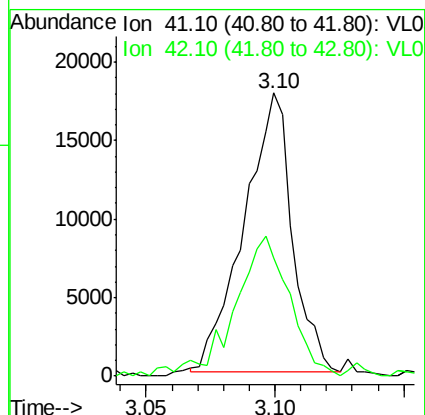
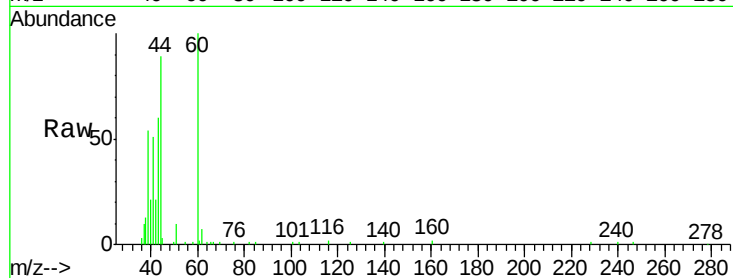
ClientSampleId :

Tot Ion: 41 Resp: 23366

Ion Ratio Lower Upper

41 100

42 58.5 56.2 84.4



#11

Trichlorofluoromethane

Concen: 1.213 ppbv

RT: 4.06 min Scan# 926

Delta R.T. -0.00 min

Lab File: VL032303.D

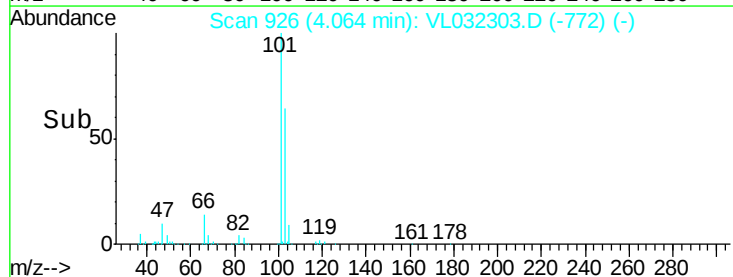
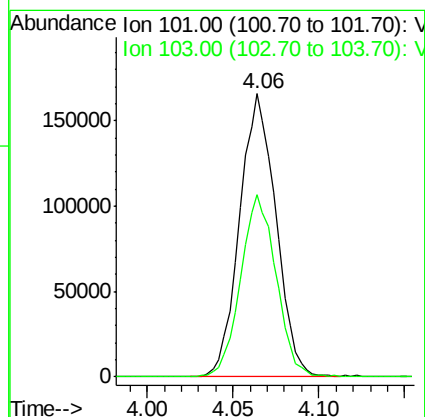
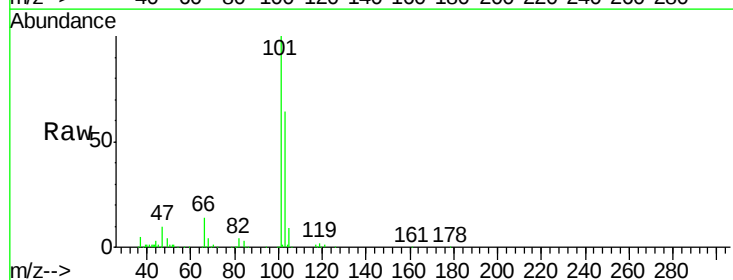
Acq: 20 Jul 2018 00:54

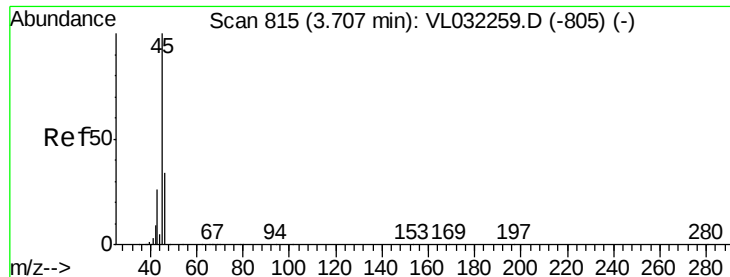
Tgt Ion: 101 Resp: 243952

Ion Ratio Lower Upper

101 100

103 64.5 51.5 77.3





#13

Ethanol

Concen: 4.138 ppbv

RT: 3.71 min Scan# 815

Delta R.T. -0.00 min

Lab File: VL032303.D

Acq: 20 Jul 2018 00:54

Instrument :

MSVOA_L

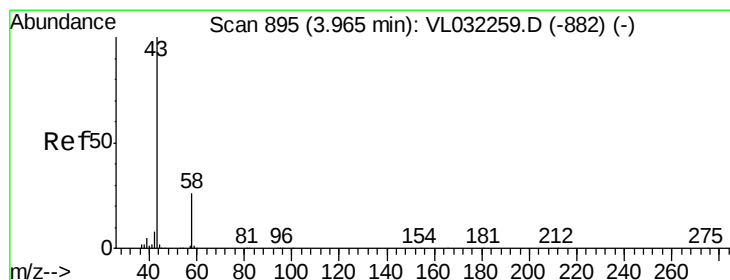
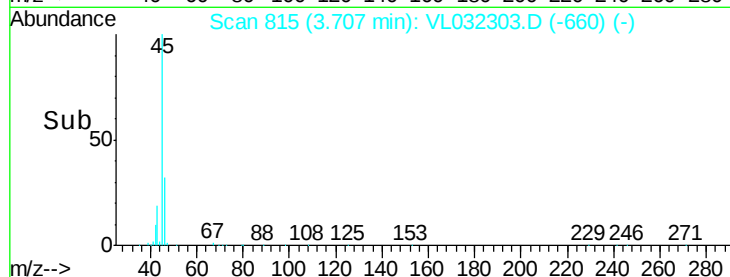
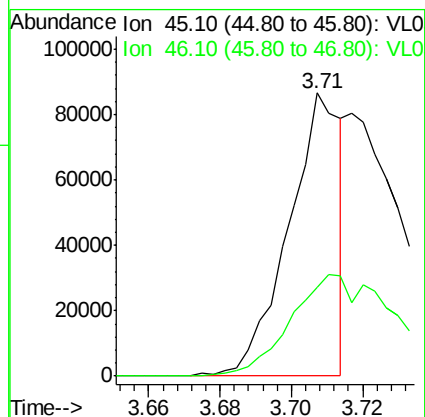
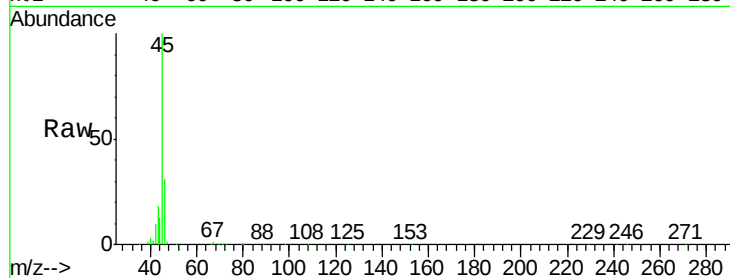
ClientSampleId :

Tot Ion: 45 Resp: 87745

Ion Ratio Lower Upper

45 100

46 81.2 15.2 60.8#



#15

Acetone

Concen: 2.183 ppbv

RT: 3.96 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL032303.D

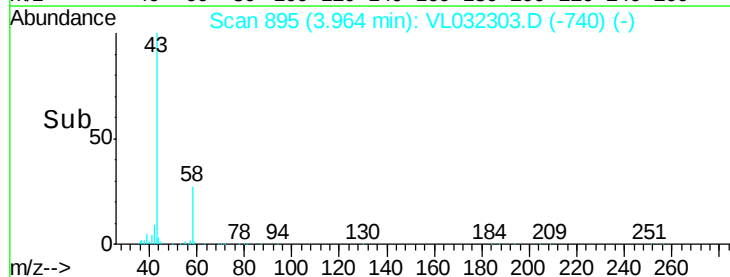
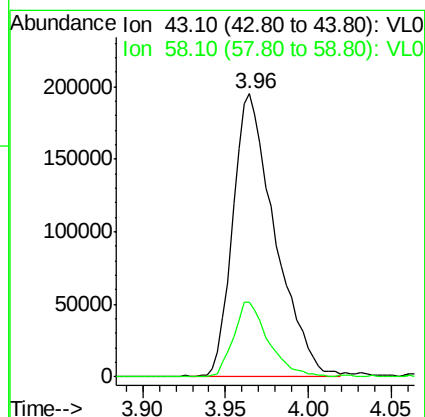
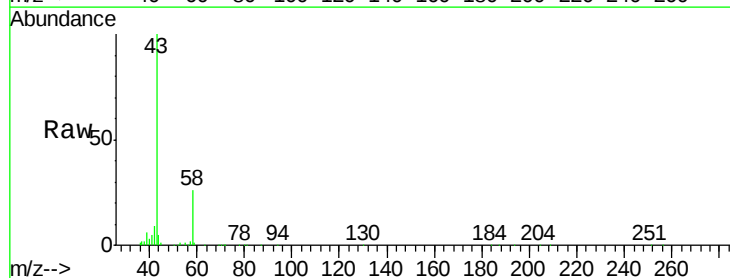
Acq: 20 Jul 2018 00:54

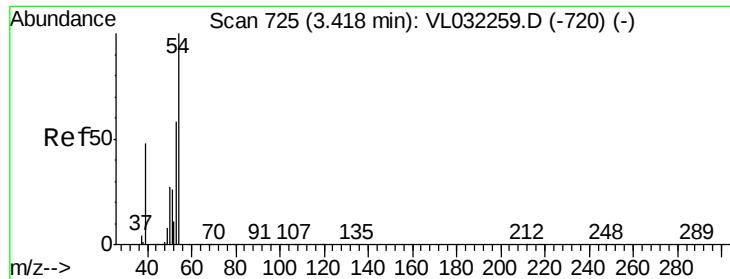
Tgt Ion: 43 Resp: 345730

Ion Ratio Lower Upper

43 100

58 22.5 21.8 32.6

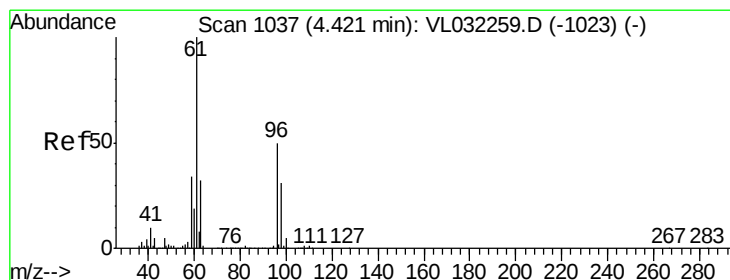
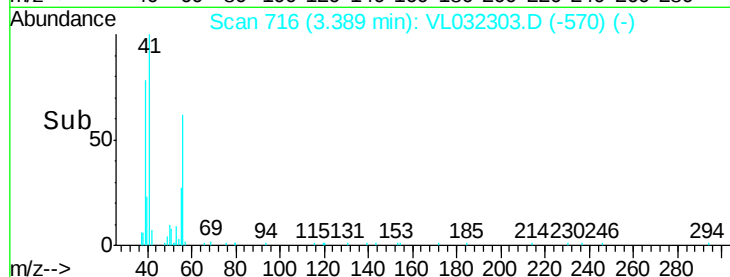
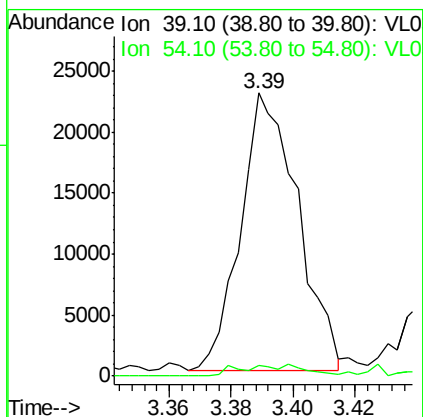
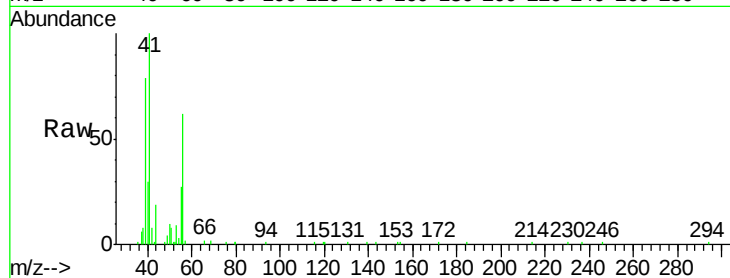




#16
 1,3-Butadiene
 Concen: 0.364 ppbv
 RT: 3.39 min Scan# 716
 Delta R.T. -0.03 min
 Lab File: VL032303.D
 Acq: 20 Jul 2018 00:54

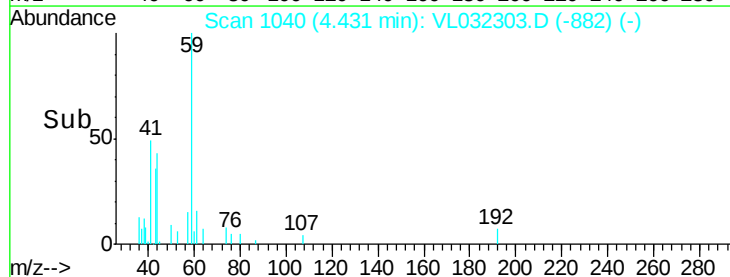
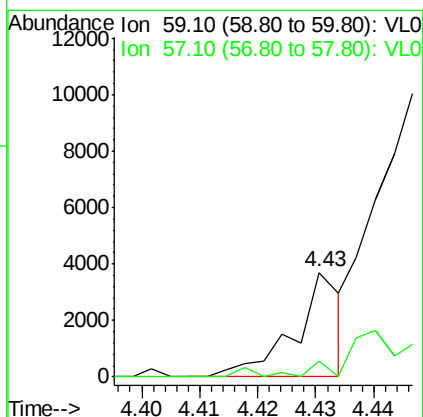
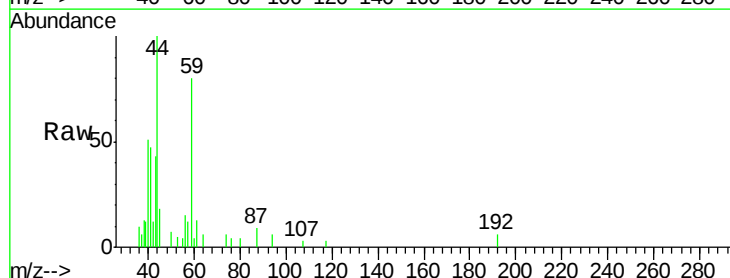
Instrument :
 MSVOA_L
 ClientSampled :

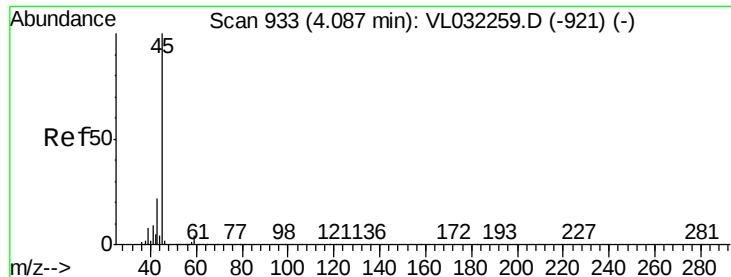
Tot Ion: 39 Resp: 29390
 Ion Ratio Lower Upper
 39 100
 54 5.0 70.6 105.8#



#17
 tert-Butyl alcohol
 Concen: 0.041 ppbv
 RT: 4.43 min Scan# 1040
 Delta R.T. 0.01 min
 Lab File: VL032303.D
 Acq: 20 Jul 2018 00:54

Tgt Ion: 59 Resp: 2053
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

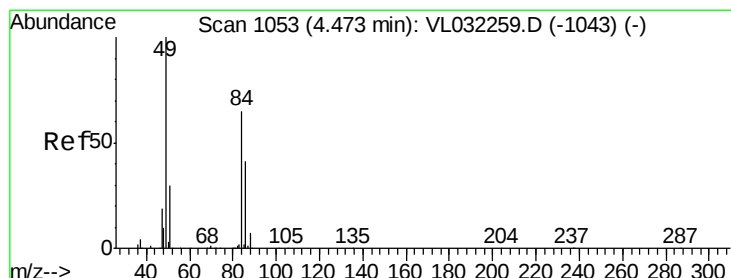
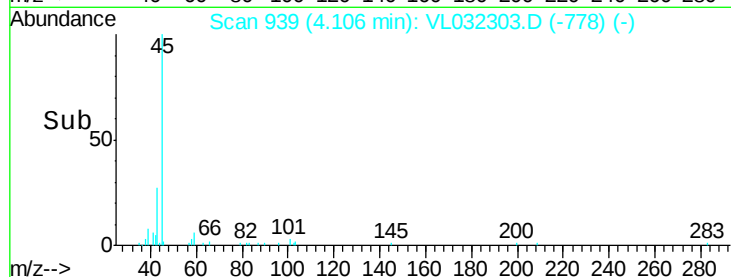
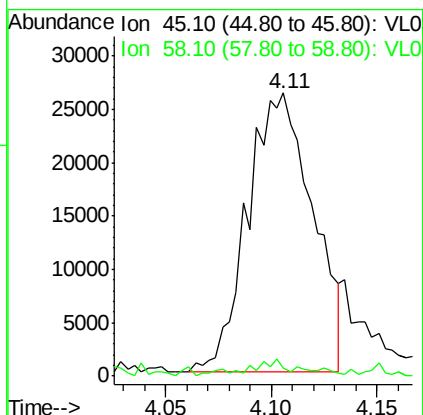
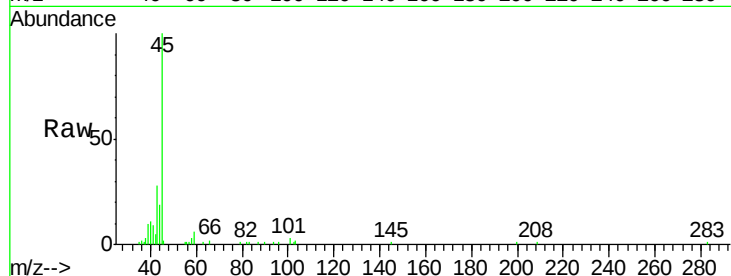




#19
Isopropyl Alcohol
Concen: 0.527 ppbv
RT: 4.11 min Scan# 939
Delta R.T. 0.02 min
Lab File: VL032303.D
Acq: 20 Jul 2018 00:54

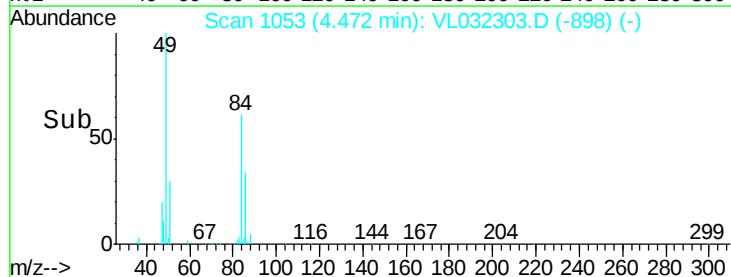
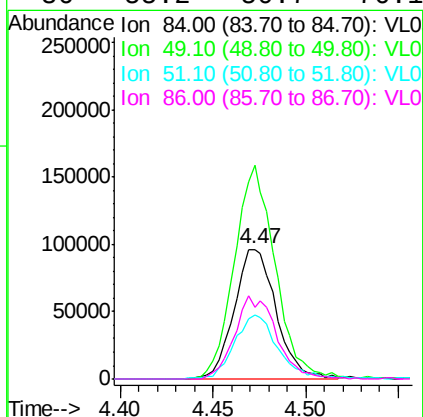
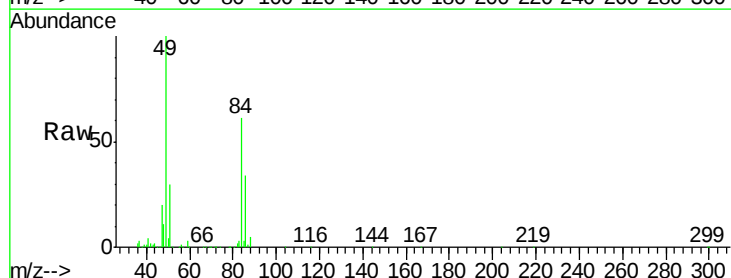
Instrument :
MSVOA_L
ClientSampled :

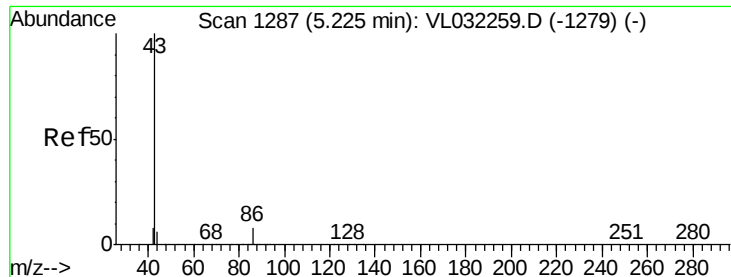
Tot Ion: 45 Resp: 56481
Ion Ratio Lower Upper
45 100
58 4.9 1.5 2.3#



#20
Methylene Chloride
Concen: 2.486 ppbv
RT: 4.47 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VL032303.D
Acq: 20 Jul 2018 00:54

Tgt Ion: 84 Resp: 151559
Ion Ratio Lower Upper
84 100
49 164.4 122.4 183.6
51 49.2 36.8 55.2
86 55.2 50.7 76.1





#23

Vinyl Acetate

Concen: 0.864 ppbv

RT: 5.21 min Scan# 1281

Delta R.T. -0.02 min

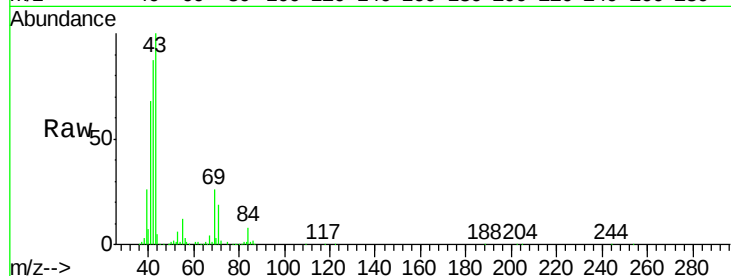
Lab File: VL032303.D

Acq: 20 Jul 2018 00:54

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 245259

Ion	Ratio	Lower	Upper
43	100		
86	1.9	5.9	8.9#
42	85.5	7.3	10.9#
44	2.8	4.4	6.6#

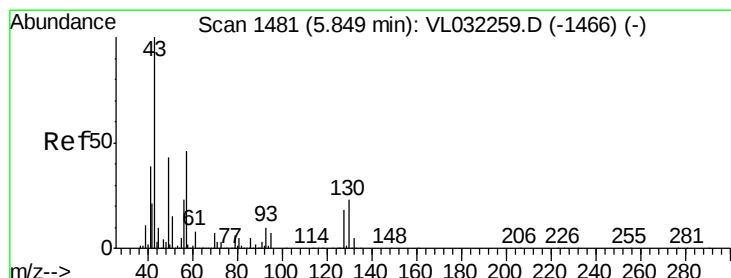
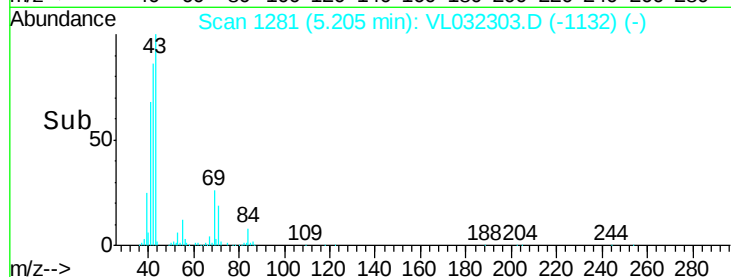
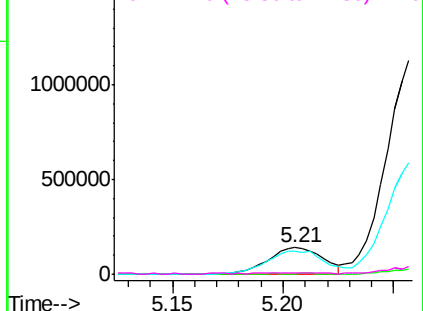


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.354 ppbv

RT: 5.85 min Scan# 1482

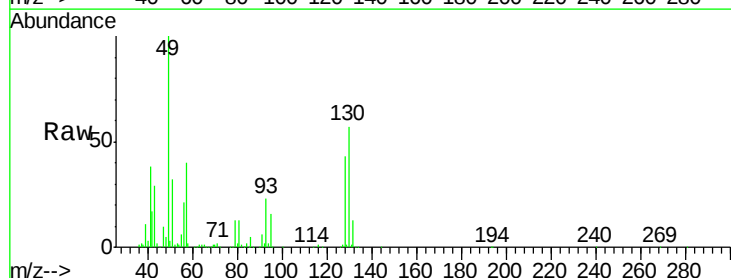
Delta R.T. 0.00 min

Lab File: VL032303.D

Acq: 20 Jul 2018 00:54

Tgt Ion: 43 Resp: 122106

Ion	Ratio	Lower	Upper
43	100		
45	1.4	7.9	11.9#
61	0.7	7.6	11.4#
70	2.6	5.8	8.8#

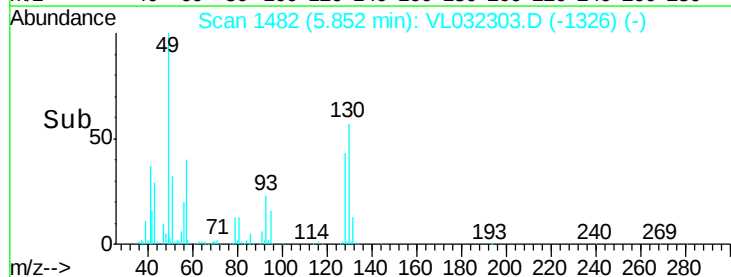
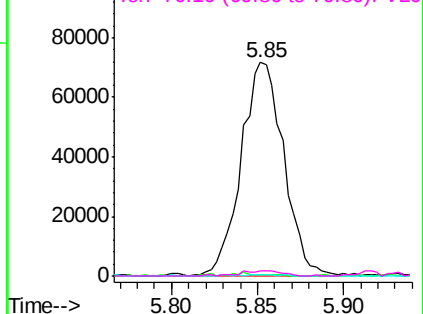


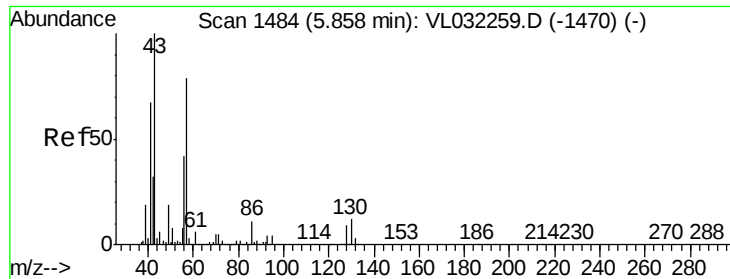
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

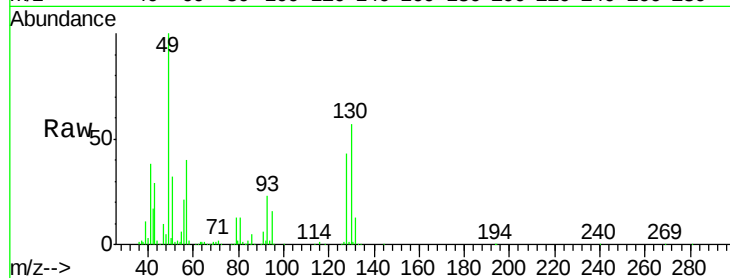




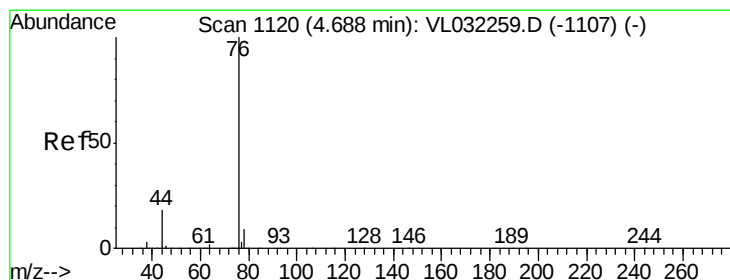
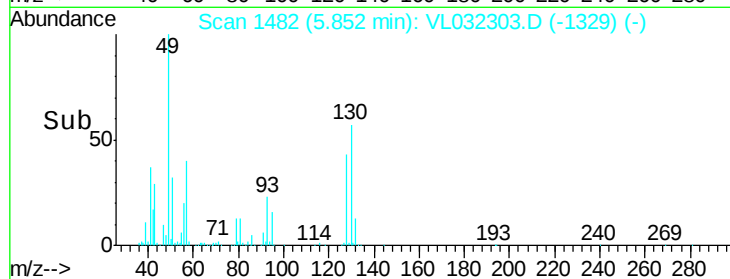
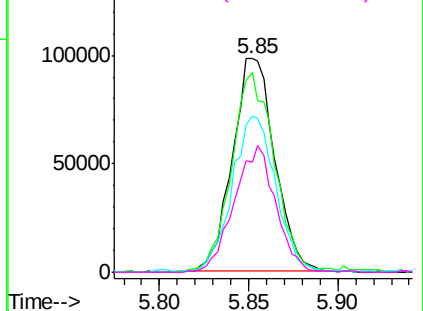
#26
Hexane
Concen: 1.030 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. -0.01 min
Lab File: VL032303.D
Acq: 20 Jul 2018 00:54

Instrument :
MSVOA_L
ClientSampled :

Tot Ion	57	Resp	163159
Ion	Ratio	Lower	Upper
57	100		
41	96.9	67.9	101.9
43	76.2	175.9	263.9#
56	58.3	41.9	62.9

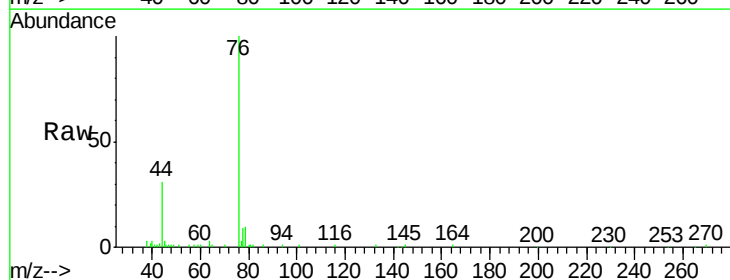


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

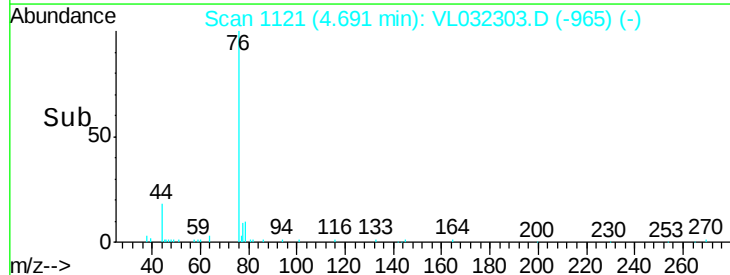
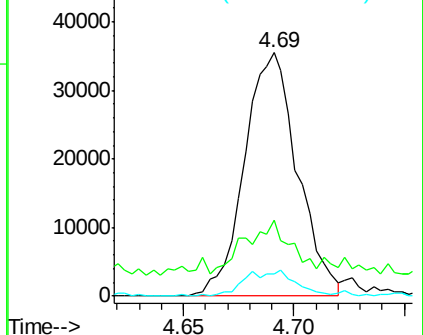


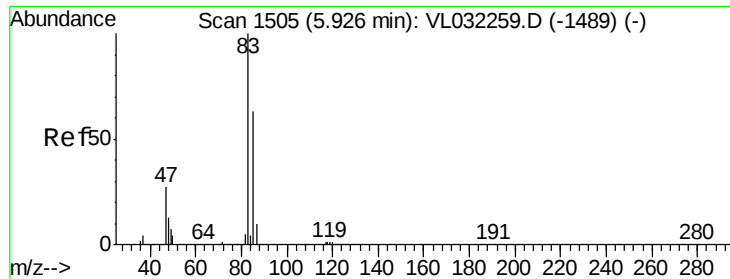
#27
Carbon Disulfide
Concen: 0.423 ppbv
RT: 4.69 min Scan# 1121
Delta R.T. 0.00 min
Lab File: VL032303.D
Acq: 20 Jul 2018 00:54

Tgt Ion	76	Resp	59270
Ion	Ratio	Lower	Upper
76	100		
44	28.2	14.3	21.5#
78	11.3	7.4	11.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

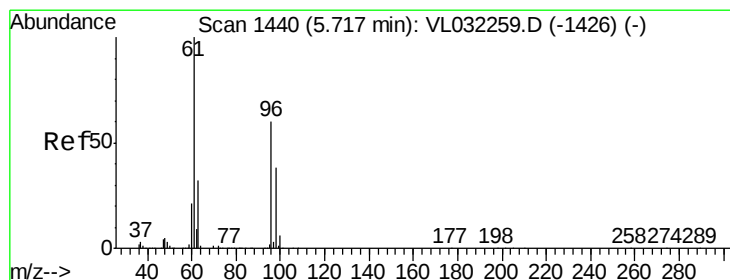
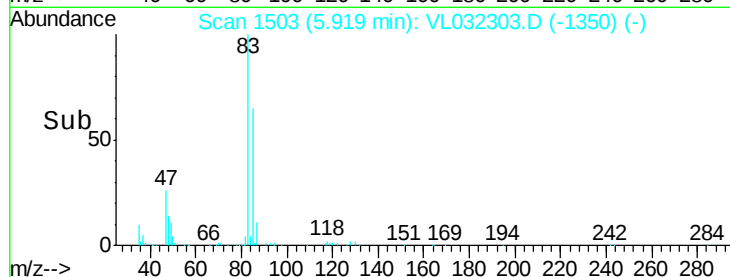
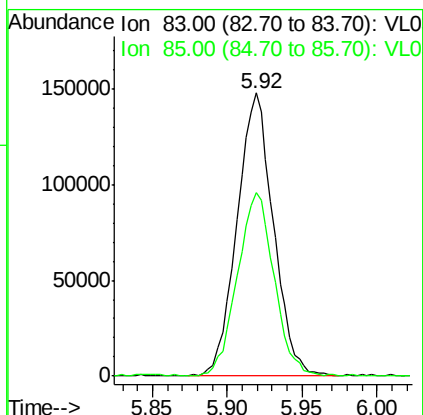
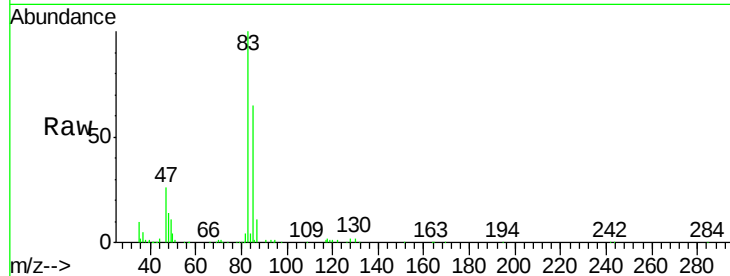




#29
 Chloroform
 Concen: 1.072 ppbv
 RT: 5.92 min Scan# 1503
 Delta R.T. -0.01 min
 Lab File: VL032303.D
 Acq: 20 Jul 2018 00:54

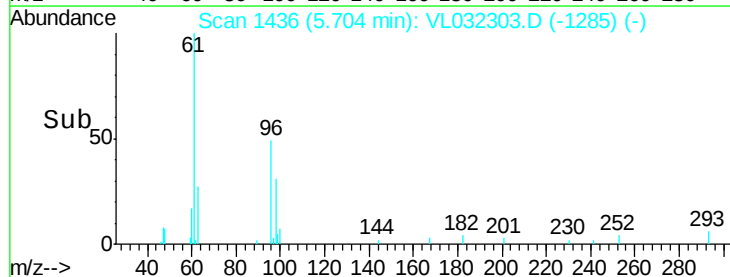
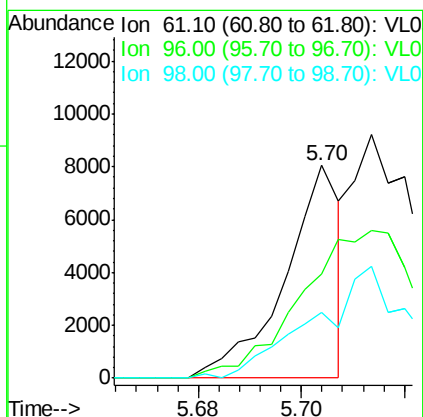
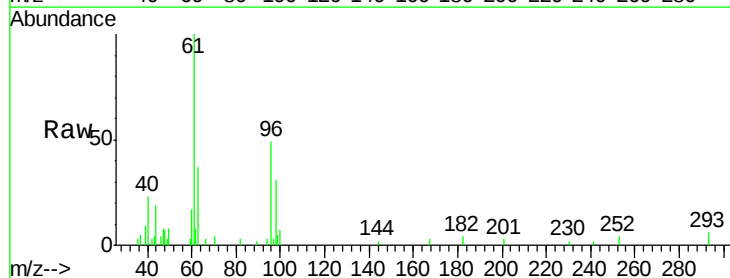
Instrument :
 MSVOA_L
 ClientSampleId :

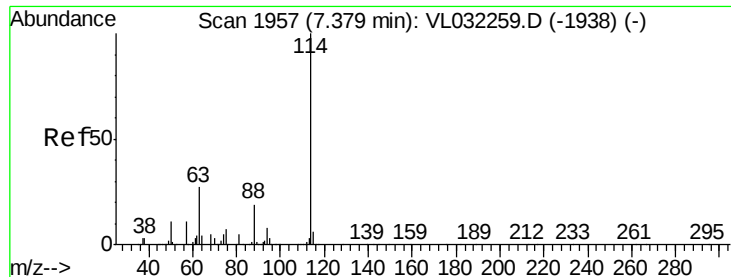
Tot Ion: 83 Resp: 250338
 Ion Ratio Lower Upper
 83 100
 85 64.8 50.7 76.1



#31
 cis-1,2-Dichloroethene
 Concen: 0.040 ppbv
 RT: 5.70 min Scan# 1436
 Delta R.T. -0.01 min
 Lab File: VL032303.D
 Acq: 20 Jul 2018 00:54

Tgt Ion: 61 Resp: 6053
 Ion Ratio Lower Upper
 61 100
 96 48.8 47.9 71.9
 98 36.0 30.5 45.7



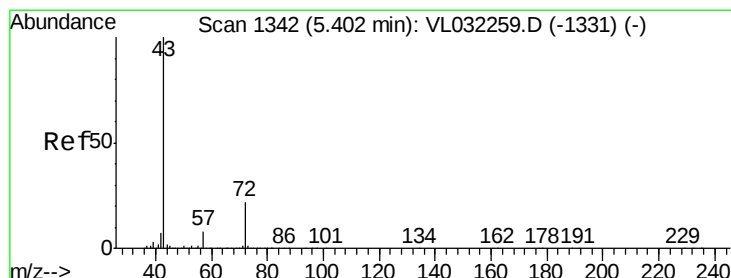
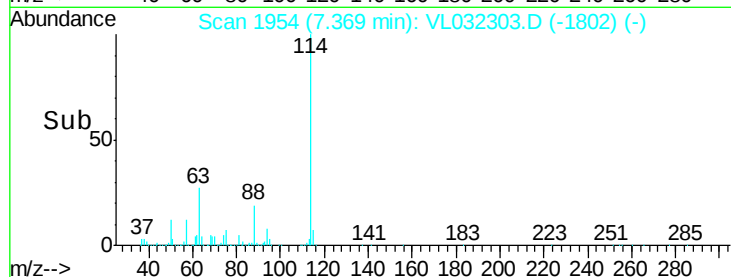
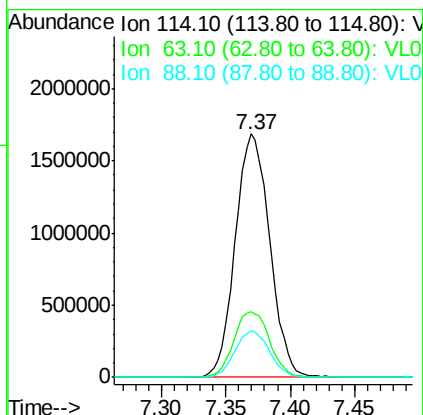
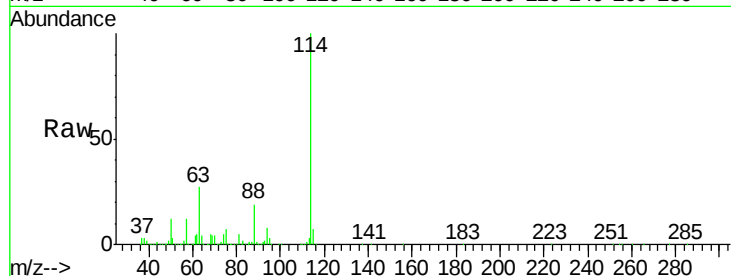


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.37 min Scan# 1954
 Delta R.T. -0.01 min
 Lab File: VL032303.D
 Acq: 20 Jul 2018 00:54

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3136395

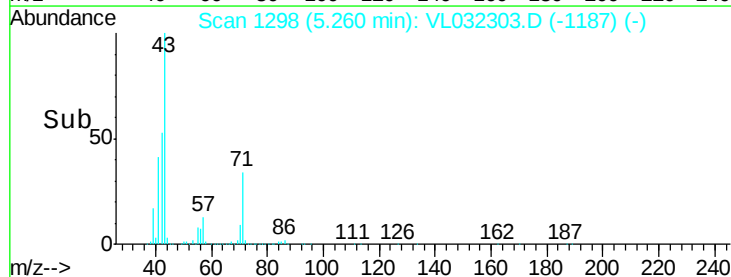
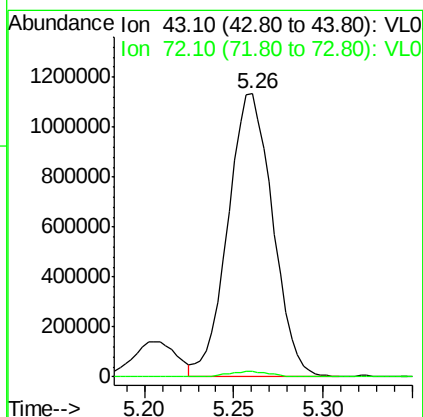
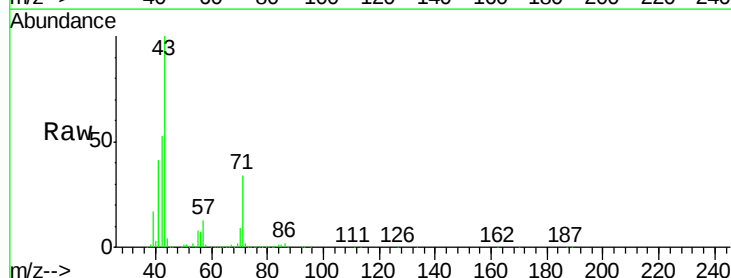
Ion	Ratio	Lower	Upper
114	100		
63	28.2	22.6	33.8
88	19.2	15.2	22.8

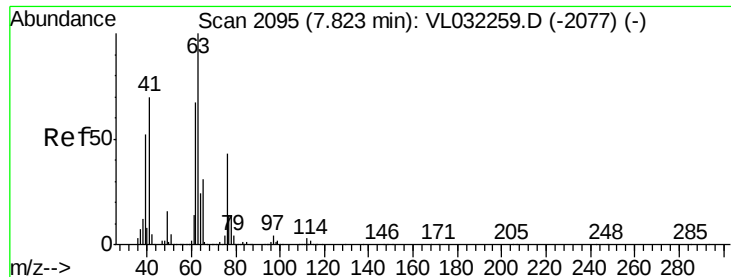


#34
 2-Butanone
 Concen: 9.160 ppbv
 RT: 5.26 min Scan# 1298
 Delta R.T. -0.14 min
 Lab File: VL032303.D
 Acq: 20 Jul 2018 00:54

Tgt Ion: 43 Resp: 1971372

Ion	Ratio	Lower	Upper
43	100		
72	1.9	17.7	26.5#

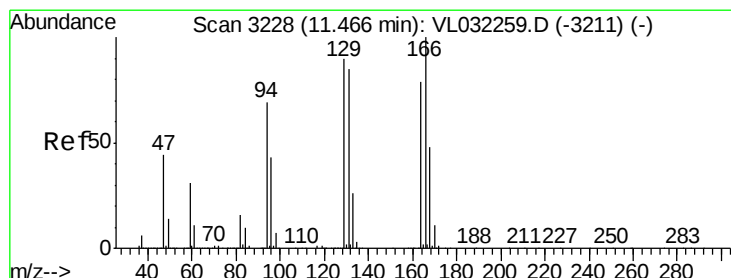
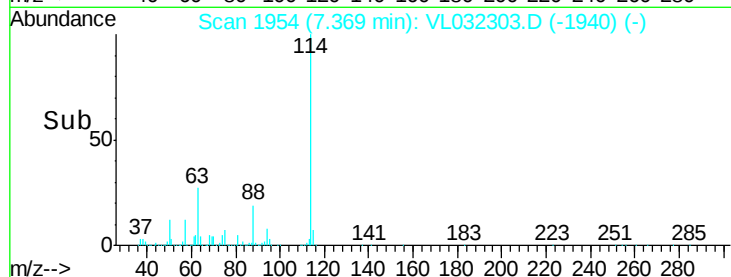
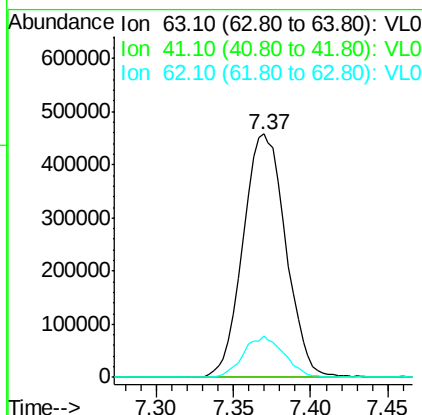
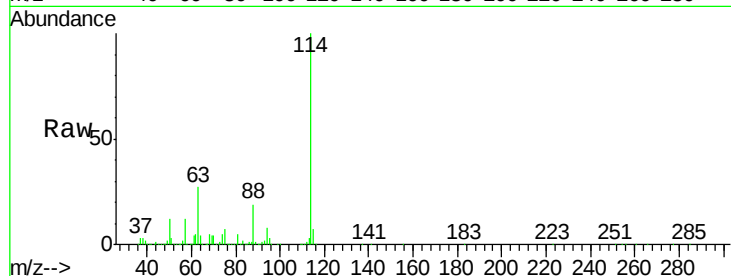




#39
 1,2-Dichloropropane
 Concen: 7.196 ppbv
 RT: 7.37 min Scan# 1954
 Delta R.T. -0.45 min
 Lab File: VL032303.D
 Acq: 20 Jul 2018 00:54

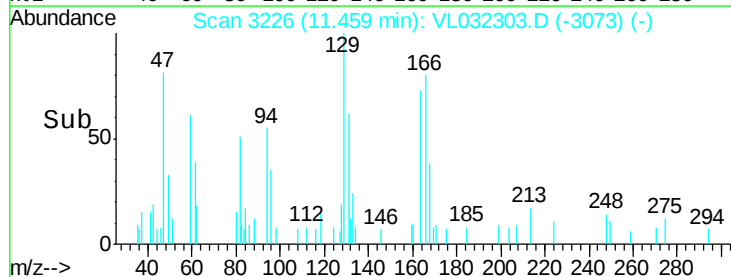
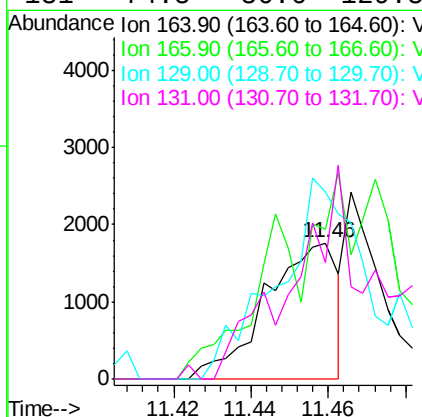
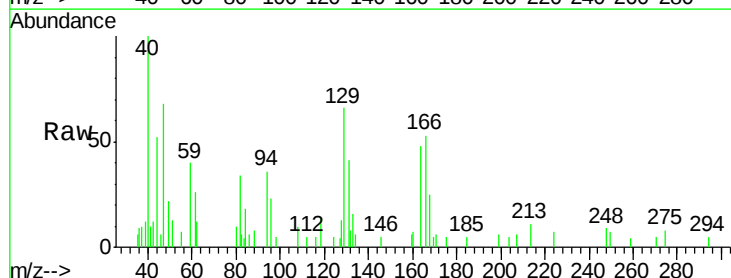
Instrument :
 MSVOA_L
 ClientSampleId :

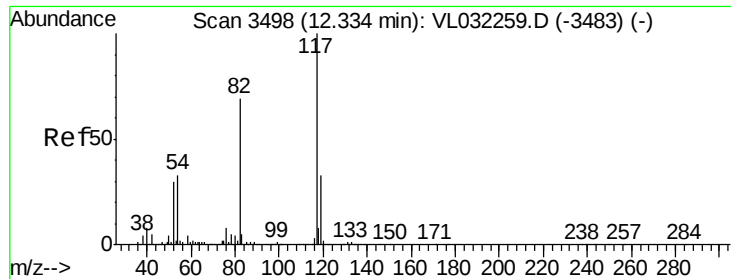
Tot Ion: 63 Resp: 879501
 Ion Ratio Lower Upper
 63 100
 41 0.1 55.8 83.6#
 62 17.0 53.8 80.8#



#52
 Tetrachloroethene
 Concen: 0.021 ppbv
 RT: 11.46 min Scan# 3226
 Delta R.T. -0.01 min
 Lab File: VL032303.D
 Acq: 20 Jul 2018 00:54

Tgt Ion:164 Resp: 2266
 Ion Ratio Lower Upper
 164 100
 166 97.8 101.7 152.5#
 129 137.5 91.5 137.3#
 131 74.5 86.6 129.8#

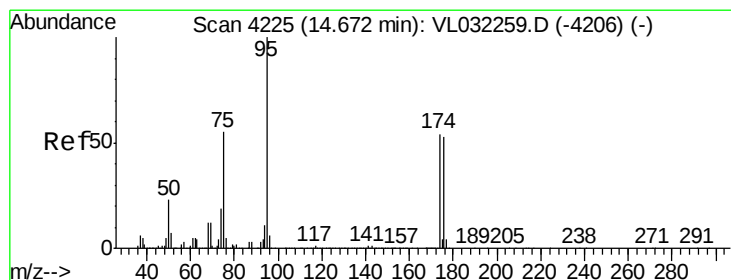
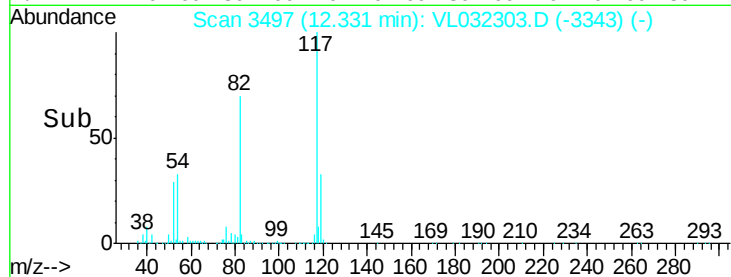
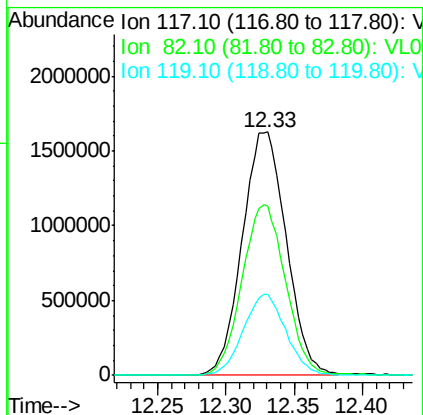
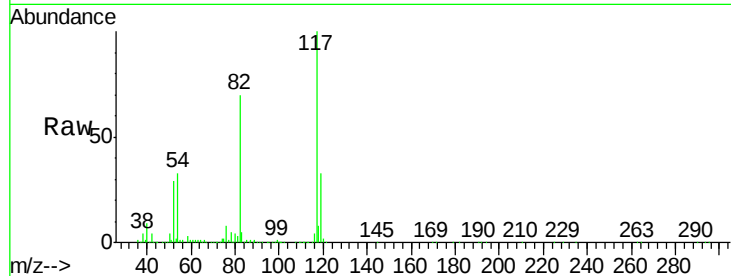




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.33 min Scan# 3497
Delta R.T. -0.00 min
Lab File: VL032303.D
Acq: 20 Jul 2018 00:54

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 3650229
Ion Ratio Lower Upper
117 100
82 69.6 53.9 80.9
119 32.5 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.564 ppbv
RT: 14.66 min Scan# 4223
Delta R.T. -0.01 min
Lab File: VL032303.D
Acq: 20 Jul 2018 00:54

Tgt Ion: 95 Resp: 2830537
Ion Ratio Lower Upper
95 100
174 56.2 44.3 66.5
175 4.1 3.3 4.9

