

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032271.D
 Acq On : 18 Jul 2018 21:48
 Operator : SY/AP
 Sample : J3454-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 19 01:59:37 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	1711440	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3518783	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4099046	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	3227652	9.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

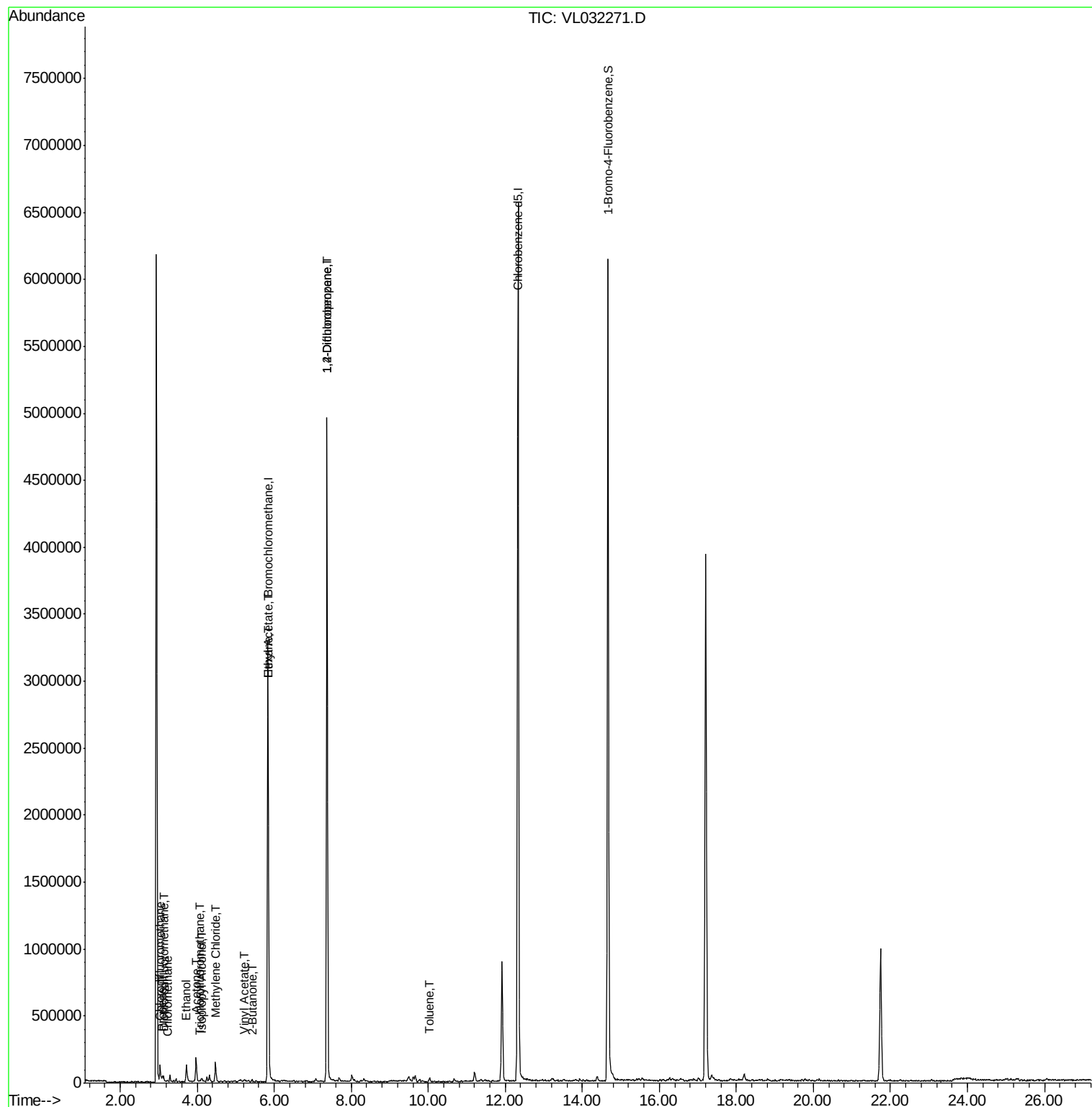
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	22263	0.077	ppbv	91
3) Chlorodifluoromethane	3.04	51	95805	0.499	ppbv #	70
4) Chloromethane	3.23	50	5695	0.050	ppbv	92
9) Propene	3.10	41	7283	0.087	ppbv	91
11) Trichlorofluoromethane	4.07	101	5155	0.023	ppbv	96
13) Ethanol	3.72	45	126510	5.275	ppbv	95
15) Acetone	3.97	43	187282	1.046	ppbv	99
19) Isopropyl Alcohol	4.11	45	28682	0.237	ppbv #	1
20) Methylene Chloride	4.48	84	48456	0.703	ppbv	88
23) Vinyl Acetate	5.22	43	9631	0.030	ppbv #	88
25) Ethyl Acetate	5.86	43	156078	0.400	ppbv #	80
26) Hexane	5.86	57	202077	1.128	ppbv #	43
34) 2-Butanone	5.42	43	12981	0.054	ppbv #	84
39) 1,2-Dichloropropane	7.37	63	995249	7.258	ppbv #	26
53) Toluene	10.03	91	11704	0.028	ppbv #	59

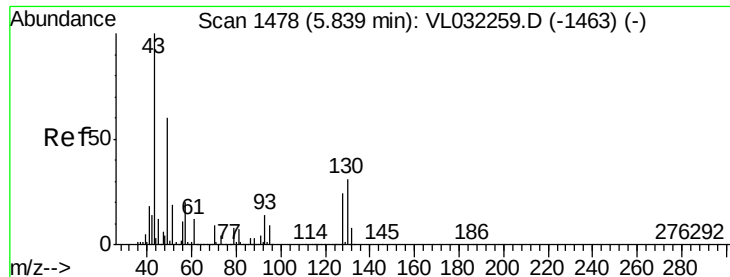
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
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QLast Update : Wed Jul 18 14:38:53 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1477

Delta R.T. -0.00 min

Lab File: VL032271.D

Acq: 18 Jul 2018 21:48

Instrument :

MSVOA_L

ClientSampleId :

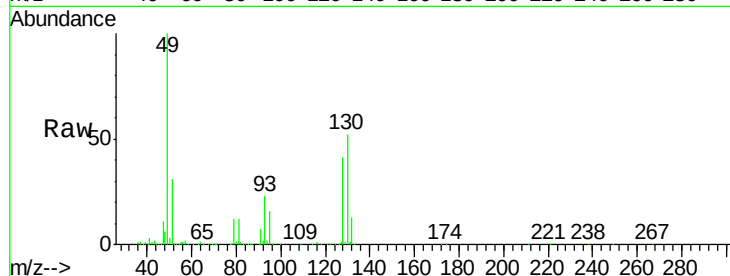
Tot Ion: 49 Resp: 1711440

Ion Ratio Lower Upper

49 100

128 40.0 20.1 60.2

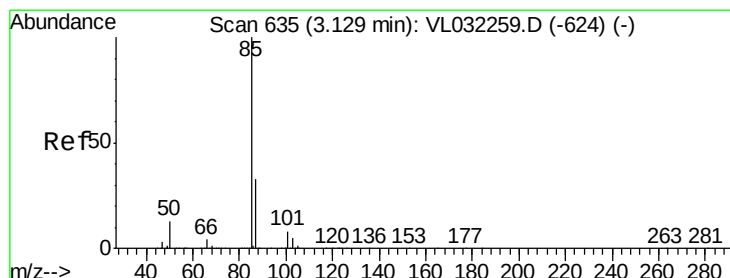
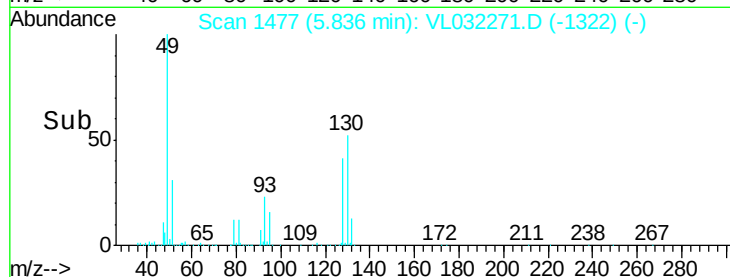
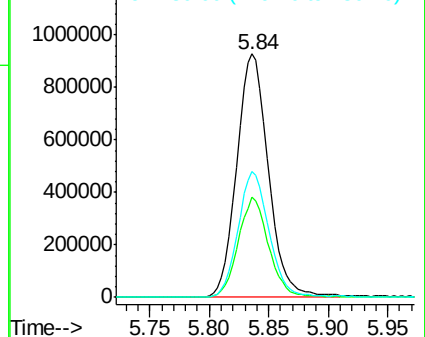
130 51.2 25.9 77.6



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: 0.077 ppbv

RT: 3.13 min Scan# 636

Delta R.T. 0.00 min

Lab File: VL032271.D

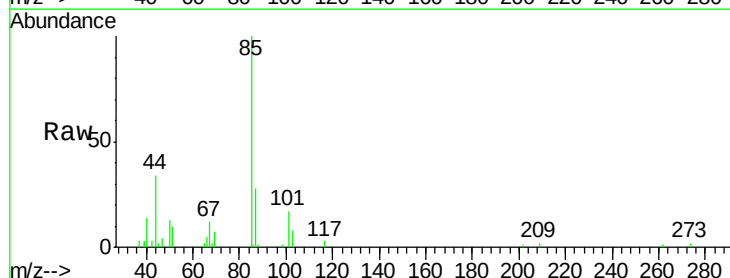
Acq: 18 Jul 2018 21:48

Tgt Ion: 85 Resp: 22263

Ion Ratio Lower Upper

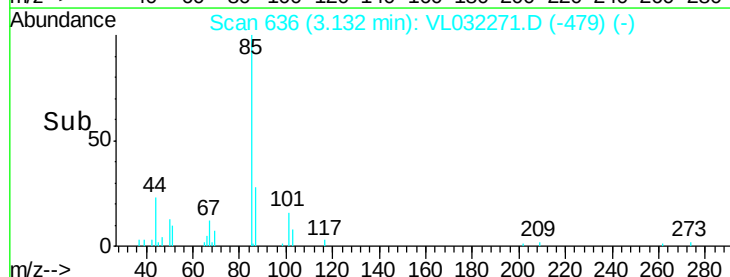
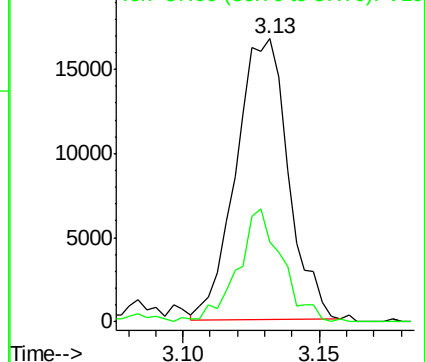
85 100

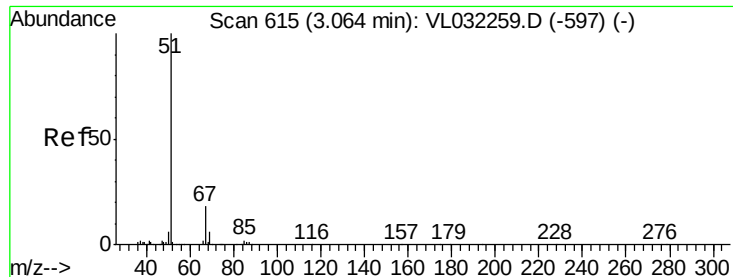
87 27.5 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.499 ppbv

RT: 3.04 min Scan# 607

Delta R.T. -0.03 min

Lab File: VL032271.D

Acq: 18 Jul 2018 21:48

Instrument :

MSVOA_L

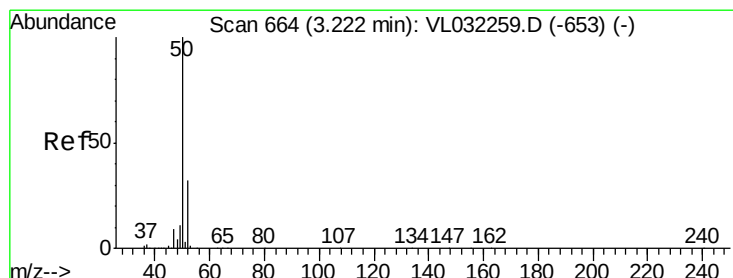
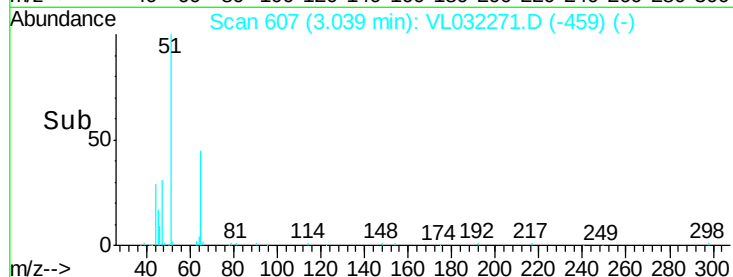
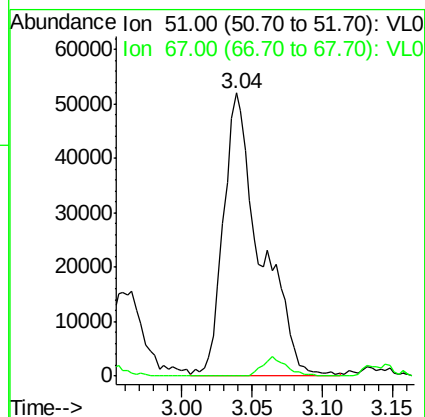
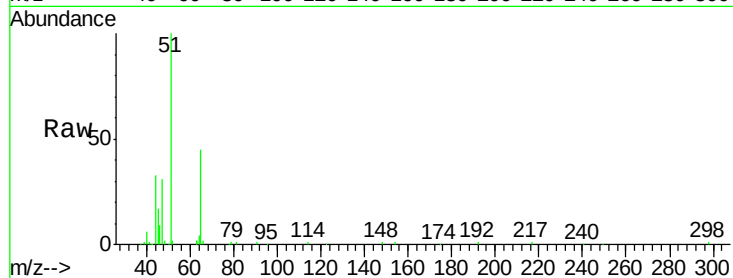
ClientSampleId :

Tot Ion: 51 Resp: 95805

Ion Ratio Lower Upper

51 100

67 4.4 14.2 21.4#



#4

Chloromethane

Concen: 0.050 ppbv

RT: 3.23 min Scan# 667

Delta R.T. 0.01 min

Lab File: VL032271.D

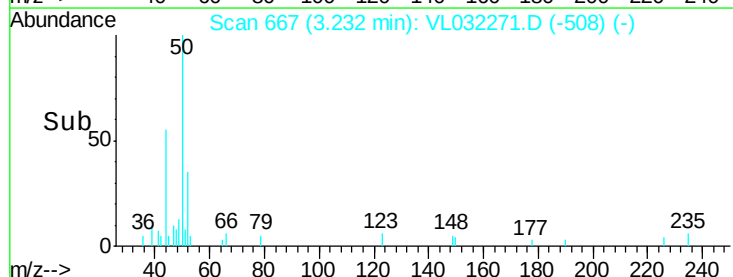
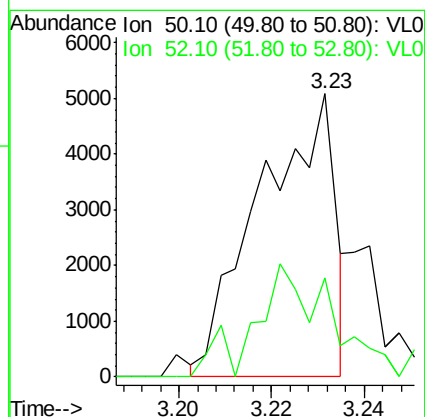
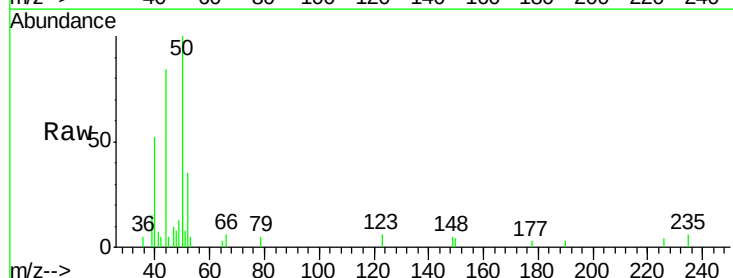
Acq: 18 Jul 2018 21:48

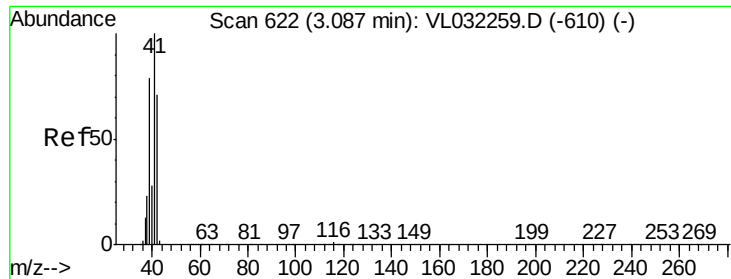
Tgt Ion: 50 Resp: 5695

Ion Ratio Lower Upper

50 100

52 36.3 25.3 37.9





#9

Propene

Concen: 0.087 ppbv

RT: 3.10 min Scan# 625

Delta R.T. 0.01 min

Lab File: VL032271.D

Acq: 18 Jul 2018 21:48

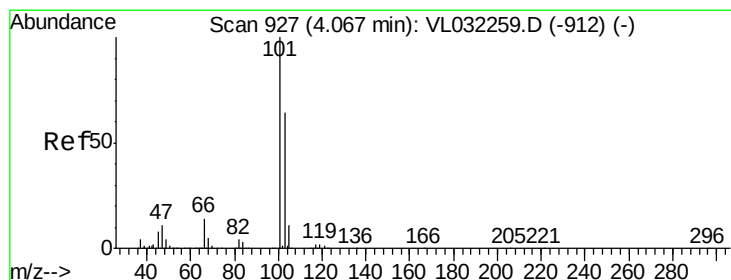
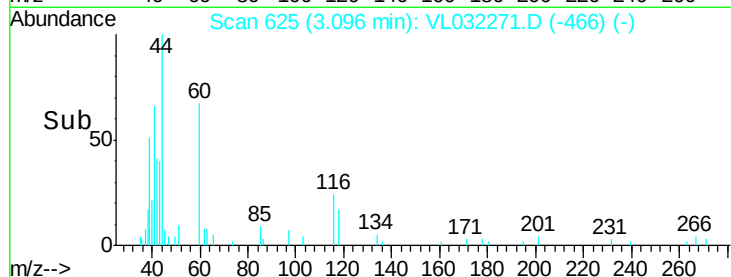
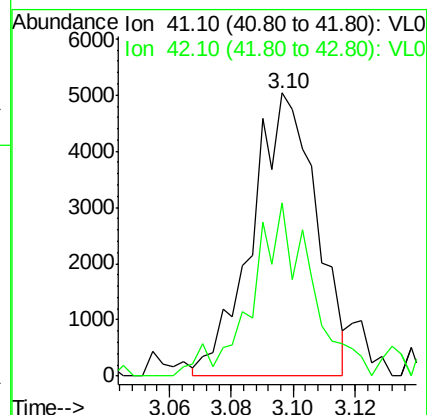
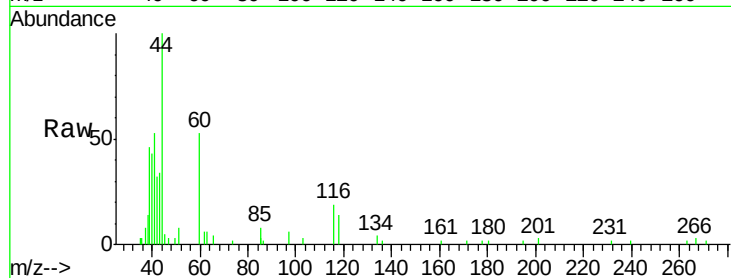
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 41 Resp: 7283

Ion Ratio Lower Upper

41 100

42 62.5 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.023 ppbv

RT: 4.07 min Scan# 928

Delta R.T. 0.00 min

Lab File: VL032271.D

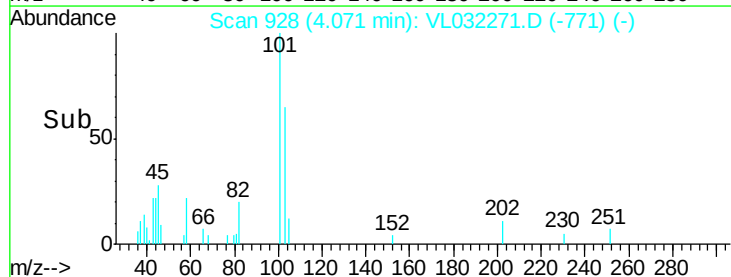
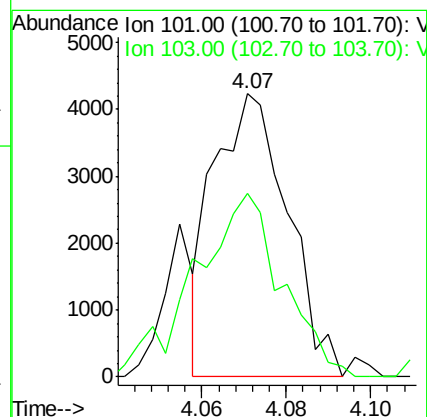
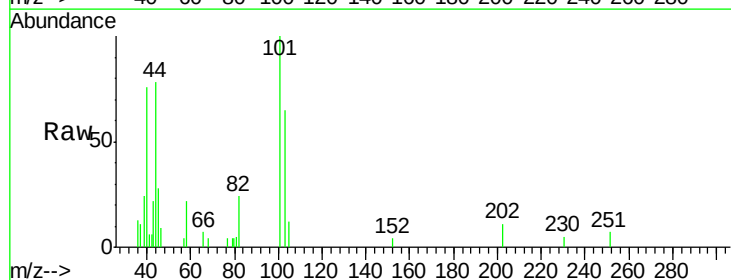
Acq: 18 Jul 2018 21:48

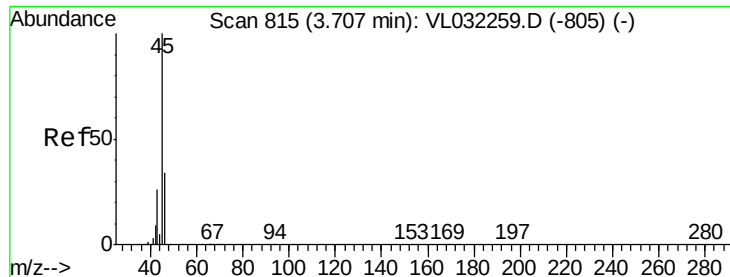
Tgt Ion: 101 Resp: 5155

Ion Ratio Lower Upper

101 100

103 60.9 51.5 77.3

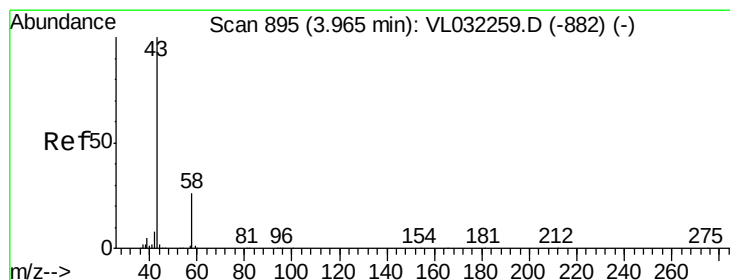
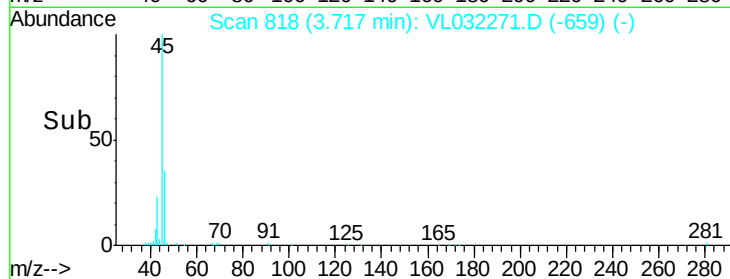
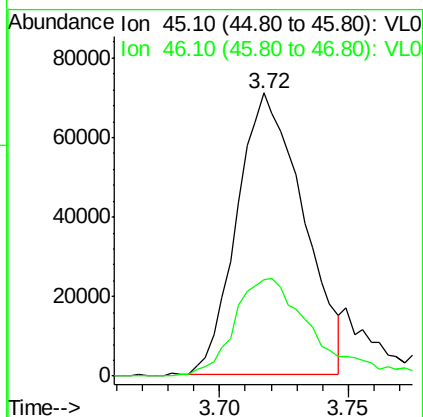
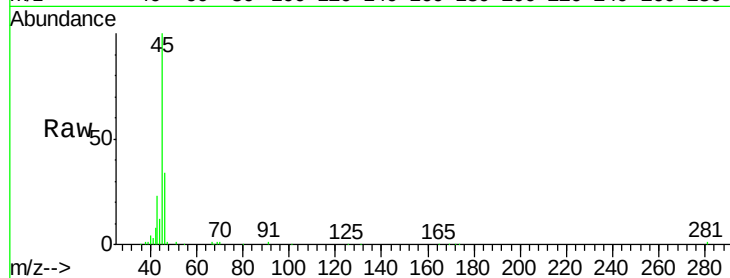




#13
Ethanol
Concen: 5.275 ppbv
RT: 3.72 min Scan# 818
Delta R.T. 0.01 min
Lab File: VL032271.D
Acq: 18 Jul 2018 21:48

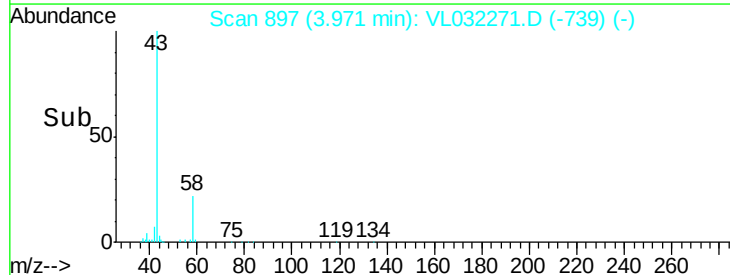
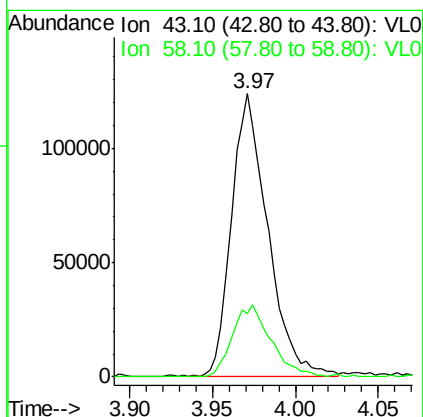
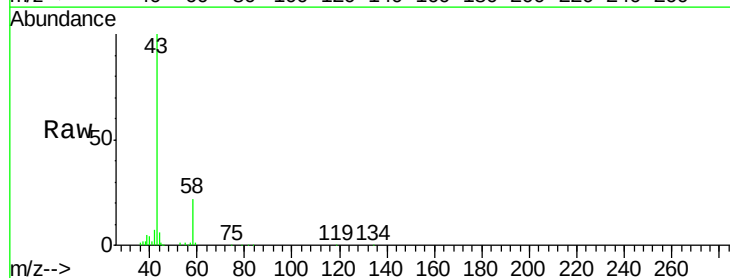
Instrument :
MSVOA_L
ClientSampled :

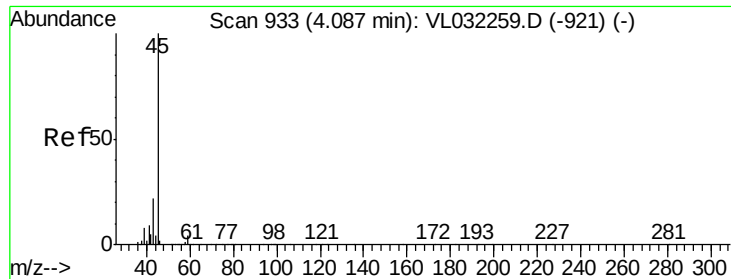
Tot Ion: 45 Resp: 126510
Ion Ratio Lower Upper
45 100
46 41.2 15.2 60.8



#15
Acetone
Concen: 1.046 ppbv
RT: 3.97 min Scan# 897
Delta R.T. 0.01 min
Lab File: VL032271.D
Acq: 18 Jul 2018 21:48

Tgt Ion: 43 Resp: 187282
Ion Ratio Lower Upper
43 100
58 27.8 21.8 32.6

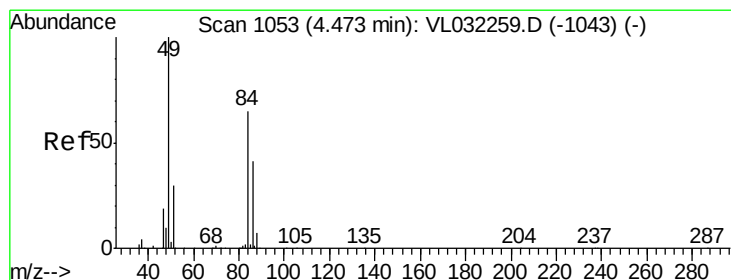
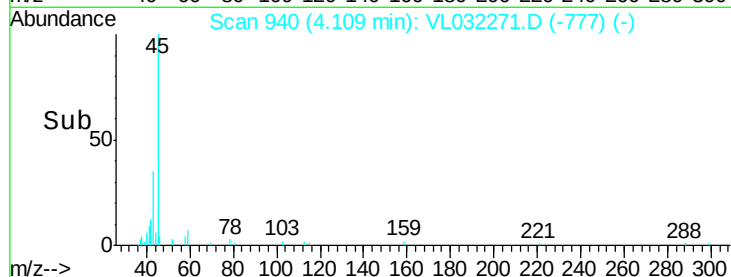
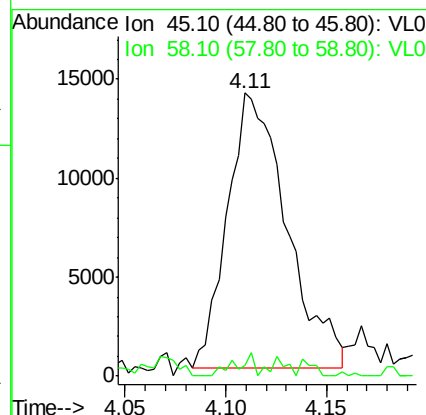
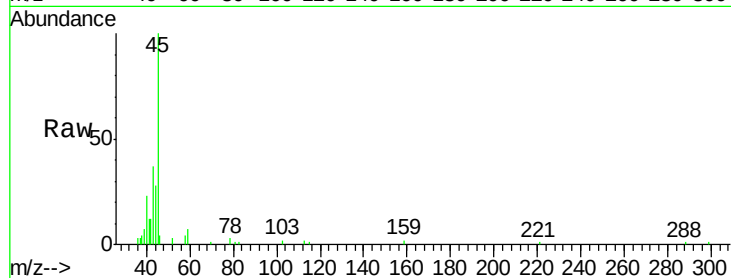




#19
Isopropyl Alcohol
Concen: 0.237 ppbv
RT: 4.11 min Scan# 940
Delta R.T. 0.02 min
Lab File: VL032271.D
Acq: 18 Jul 2018 21:48

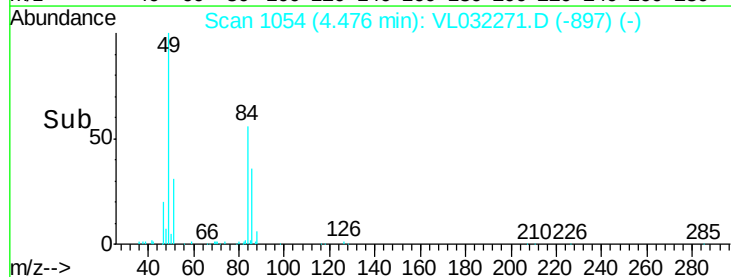
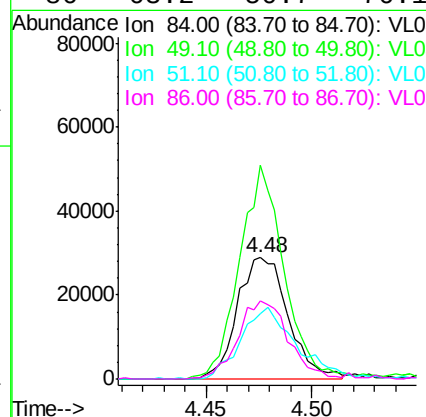
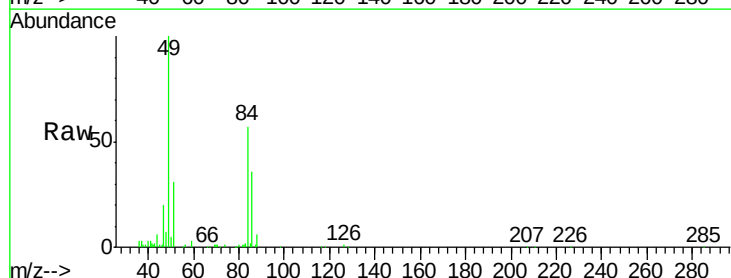
Instrument :
MSVOA_L
ClientSampleId :

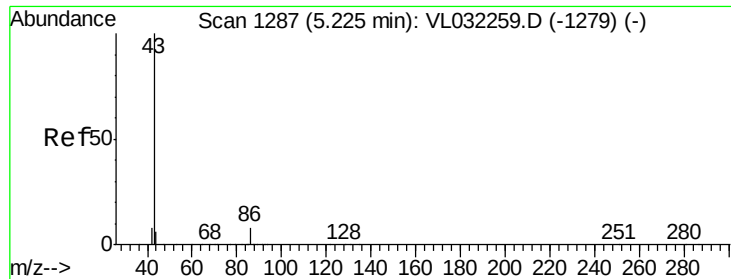
Tot Ion: 45 Resp: 28682
Ion Ratio Lower Upper
45 100
58 179.4 1.5 2.3#



#20
Methylene Chloride
Concen: 0.703 ppbv
RT: 4.48 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VL032271.D
Acq: 18 Jul 2018 21:48

Tgt Ion: 84 Resp: 48456
Ion Ratio Lower Upper
84 100
49 174.5 122.4 183.6
51 53.9 36.8 55.2
86 63.2 50.7 76.1





#23

Vinyl Acetate

Concen: 0.030 ppbv

RT: 5.22 min Scan# 1286

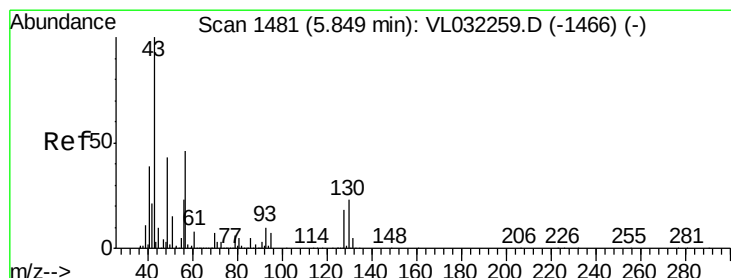
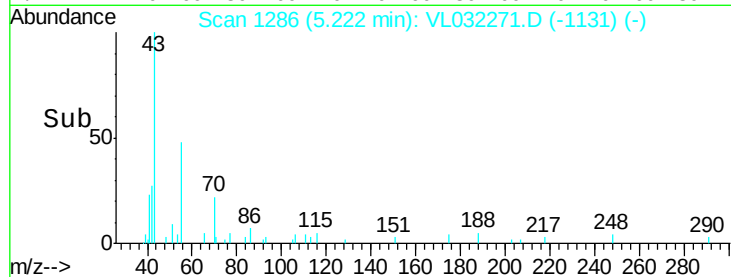
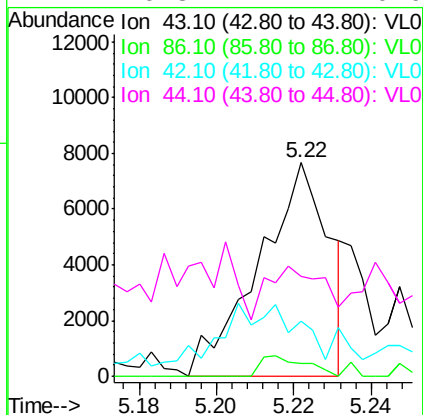
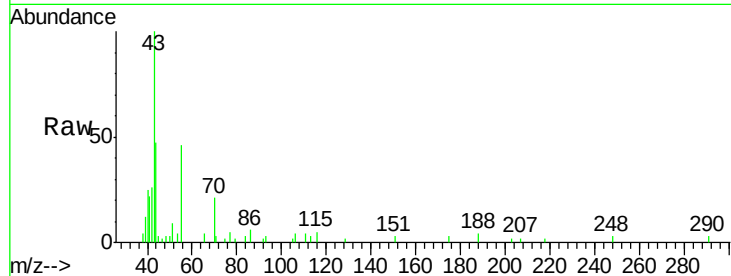
Delta R.T. -0.00 min

Lab File: VL032271.D

Acq: 18 Jul 2018 21:48

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	43	Resp:	9631
Ion	Ratio	Lower	Upper
43	100		
86	6.2	5.9	8.9
42	11.3	7.3	10.9#
44	16.8	4.4	6.6#



#25

Ethyl Acetate

Concen: 0.400 ppbv

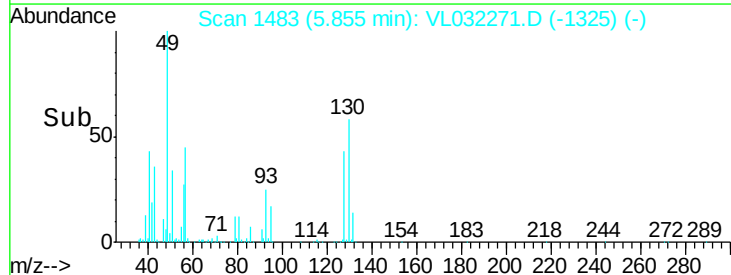
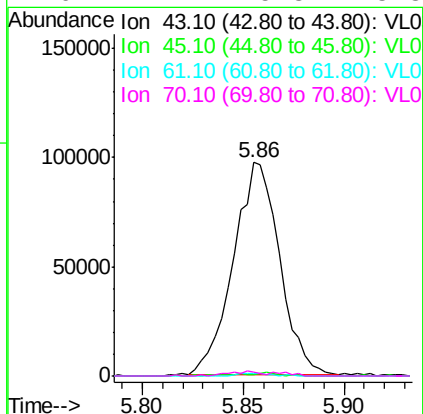
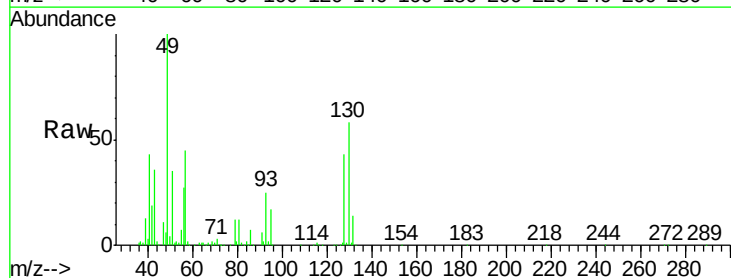
RT: 5.86 min Scan# 1483

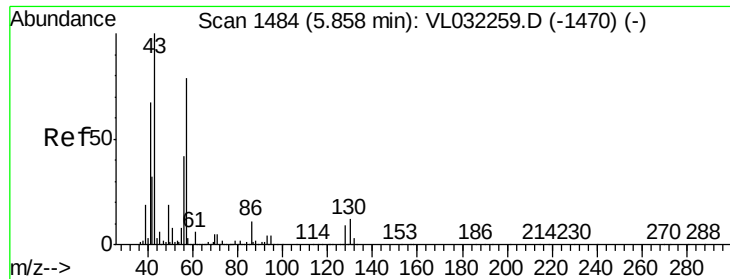
Delta R.T. 0.01 min

Lab File: VL032271.D

Acq: 18 Jul 2018 21:48

Tgt Ion:	43	Resp:	156078
Ion	Ratio	Lower	Upper
43	100		
45	1.7	7.9	11.9#
61	1.0	7.6	11.4#
70	2.4	5.8	8.8#

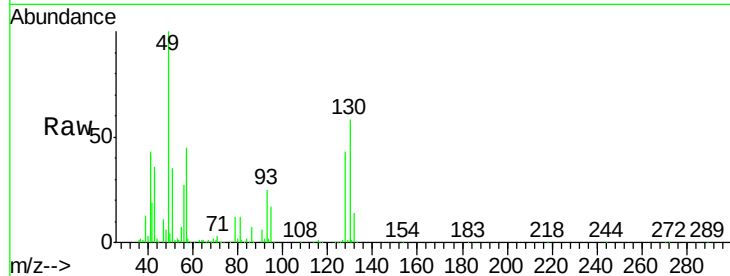




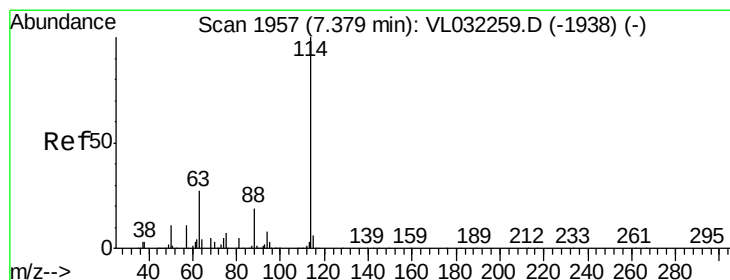
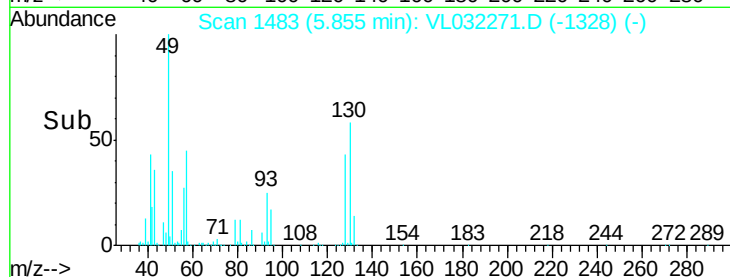
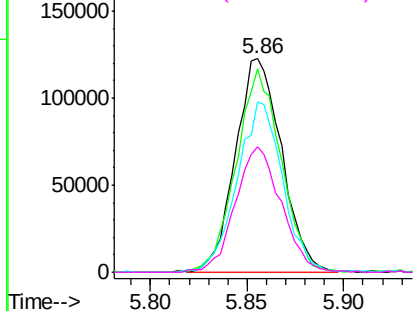
#26
Hexane
Concen: 1.128 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.00 min
Lab File: VL032271.D
Acq: 18 Jul 2018 21:48

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	57	Resp:	202077
Ion	Ratio	Lower	Upper
57	100		
41	93.3	67.9	101.9
43	79.5	175.9	263.9
56	58.6	41.9	62.9

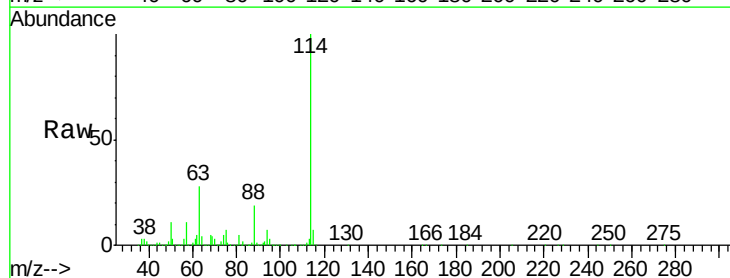


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

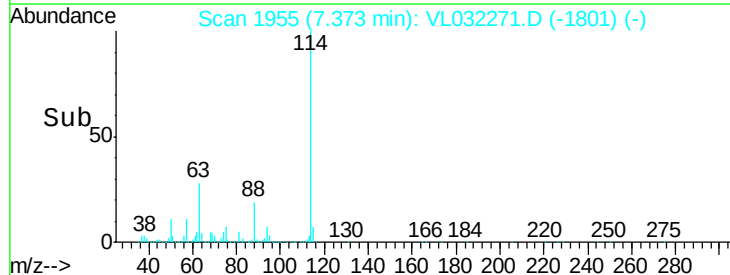
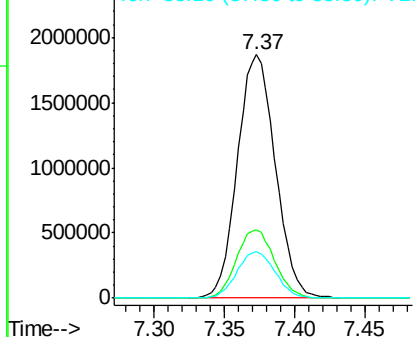


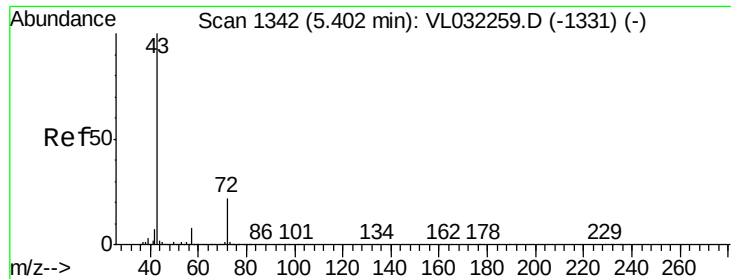
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.37 min Scan# 1955
Delta R.T. -0.01 min
Lab File: VL032271.D
Acq: 18 Jul 2018 21:48

Tgt Ion:	114	Resp:	3518783
Ion	Ratio	Lower	Upper
114	100		
63	28.4	22.6	33.8
88	19.3	15.2	22.8



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

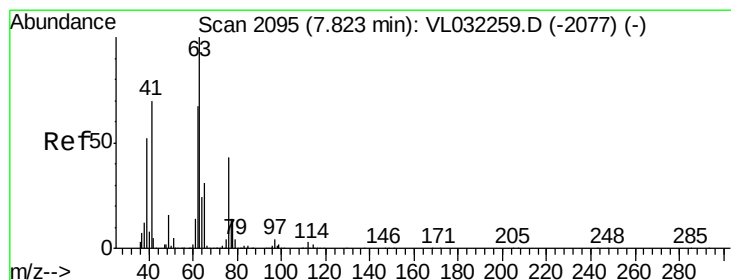
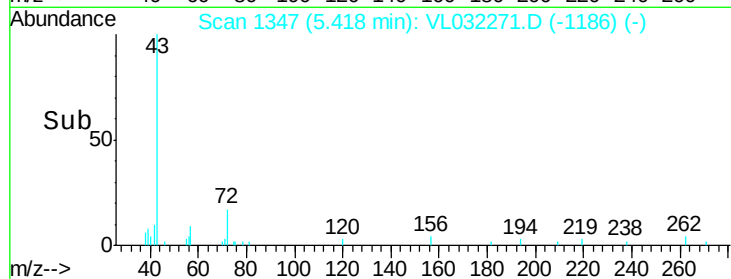
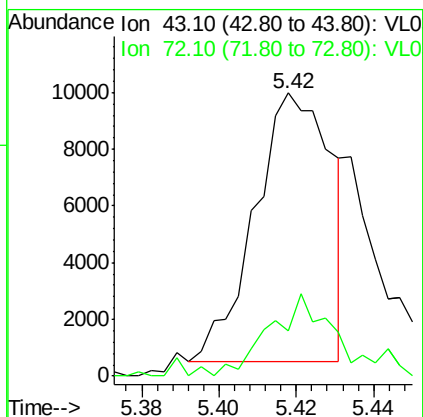
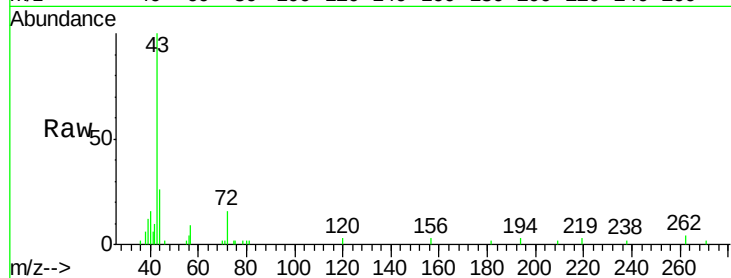




#34
2-Butanone
Concen: 0.054 ppbv
RT: 5.42 min Scan# 1347
Delta R.T. 0.02 min
Lab File: VL032271.D
Acq: 18 Jul 2018 21:48

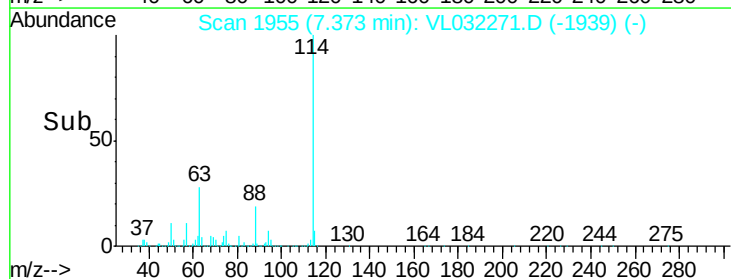
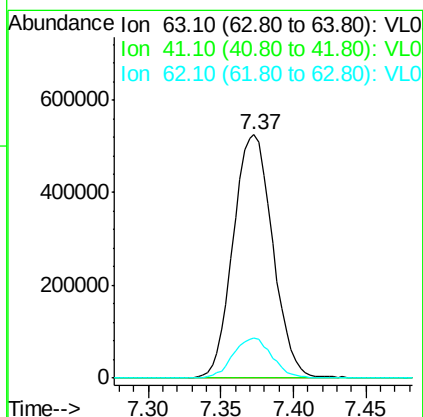
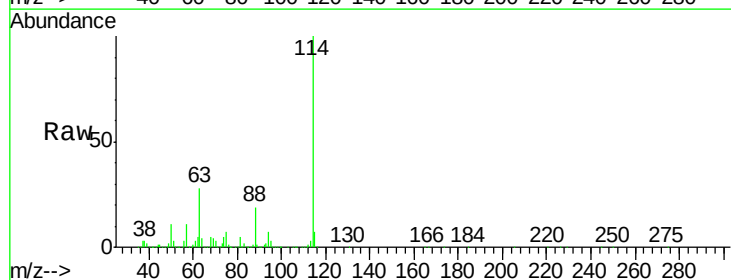
Instrument :
MSVOA_L
ClientSampleId :

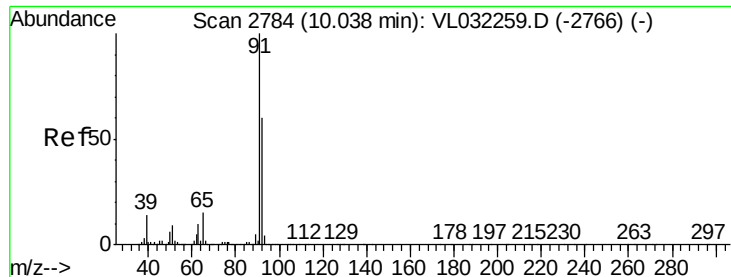
Tot Ion: 43 Resp: 12981
Ion Ratio Lower Upper
43 100
72 29.6 17.7 26.5#



#39
1,2-Dichloropropane
Concen: 7.258 ppbv
RT: 7.37 min Scan# 1955
Delta R.T. -0.45 min
Lab File: VL032271.D
Acq: 18 Jul 2018 21:48

Tgt Ion: 63 Resp: 995249
Ion Ratio Lower Upper
63 100
41 0.0 55.8 83.6#
62 16.5 53.8 80.8#

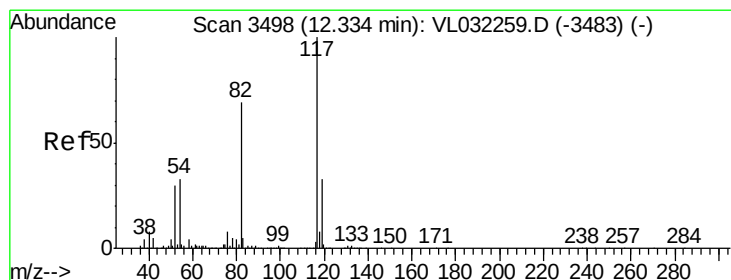
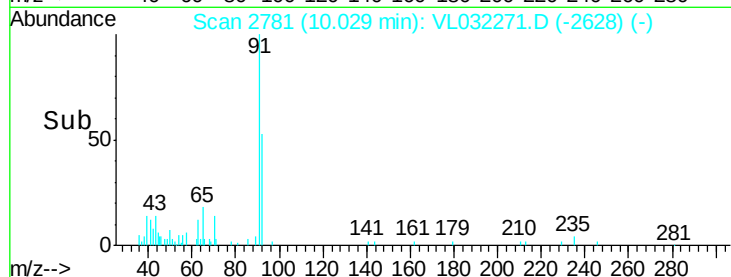
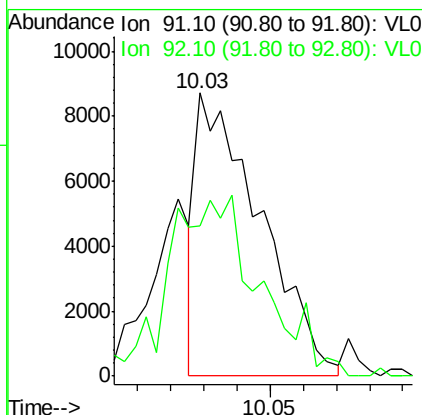
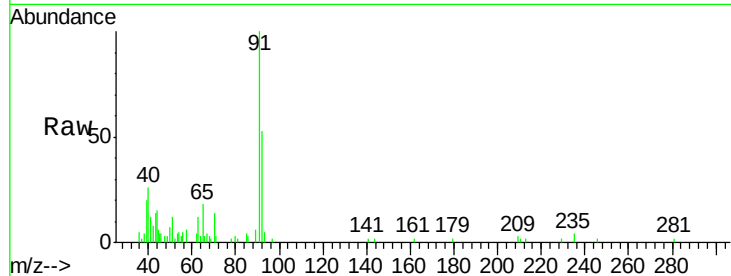




#53
Toluene
Concen: 0.028 ppbv
RT: 10.03 min Scan# 2781
Delta R.T. -0.01 min
Lab File: VL032271.D
Acq: 18 Jul 2018 21:48

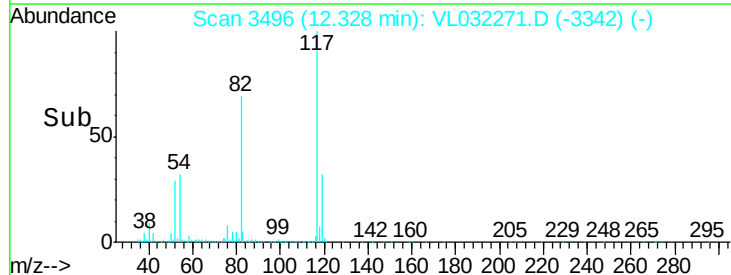
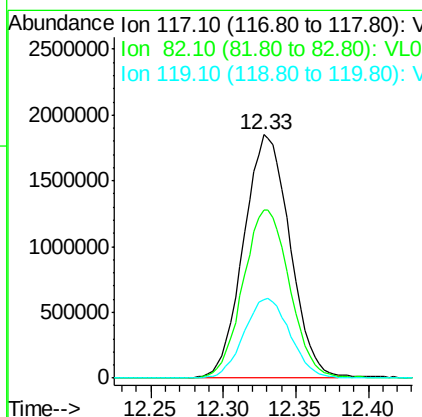
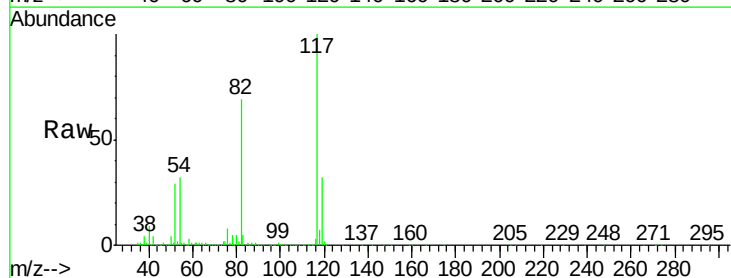
Instrument :
MSVOA_L
ClientSampleId :

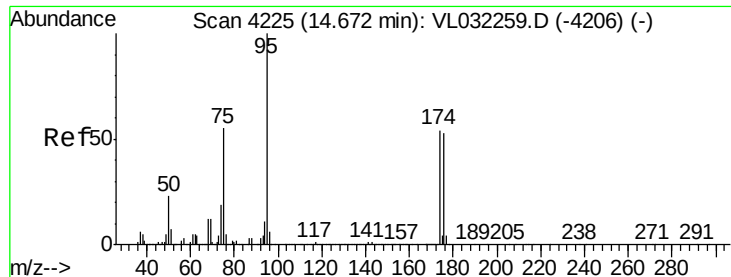
Tot Ion: 91 Resp: 11704
Ion Ratio Lower Upper
91 100
92 91.8 48.6 72.8#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.33 min Scan# 3496
Delta R.T. -0.01 min
Lab File: VL032271.D
Acq: 18 Jul 2018 21:48

Tgt Ion: 117 Resp: 4099046
Ion Ratio Lower Upper
117 100
82 70.3 53.9 80.9
119 33.1 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.712 ppbv

RT: 14.67 min Scan# 4224

Delta R.T. -0.00 min

Lab File: VL032271.D

Acq: 18 Jul 2018 21:48

Instrument :

MSVOA_L

ClientSampleId :

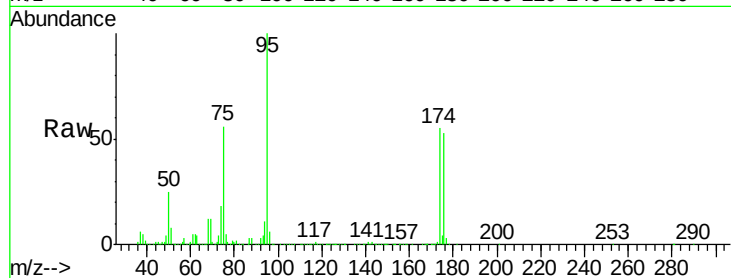
Tot Ion: 95 Resp: 3227652

Ion Ratio Lower Upper

95 100

174 56.2 44.3 66.5

175 3.9 3.3 4.9



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

