

Data File : VL032622.D
Acq On : 12 Oct 2018 2:49
Operator : SY/AP
Sample : J5370-04DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
Q4-SVI-100518DL

Quant Time: Oct 12 03:31:12 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Oct 01 06:49:26 2018
QLast Update : Mon Oct 01 06:49:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1380065	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3103037	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3286504	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2375955	9.59	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.90%

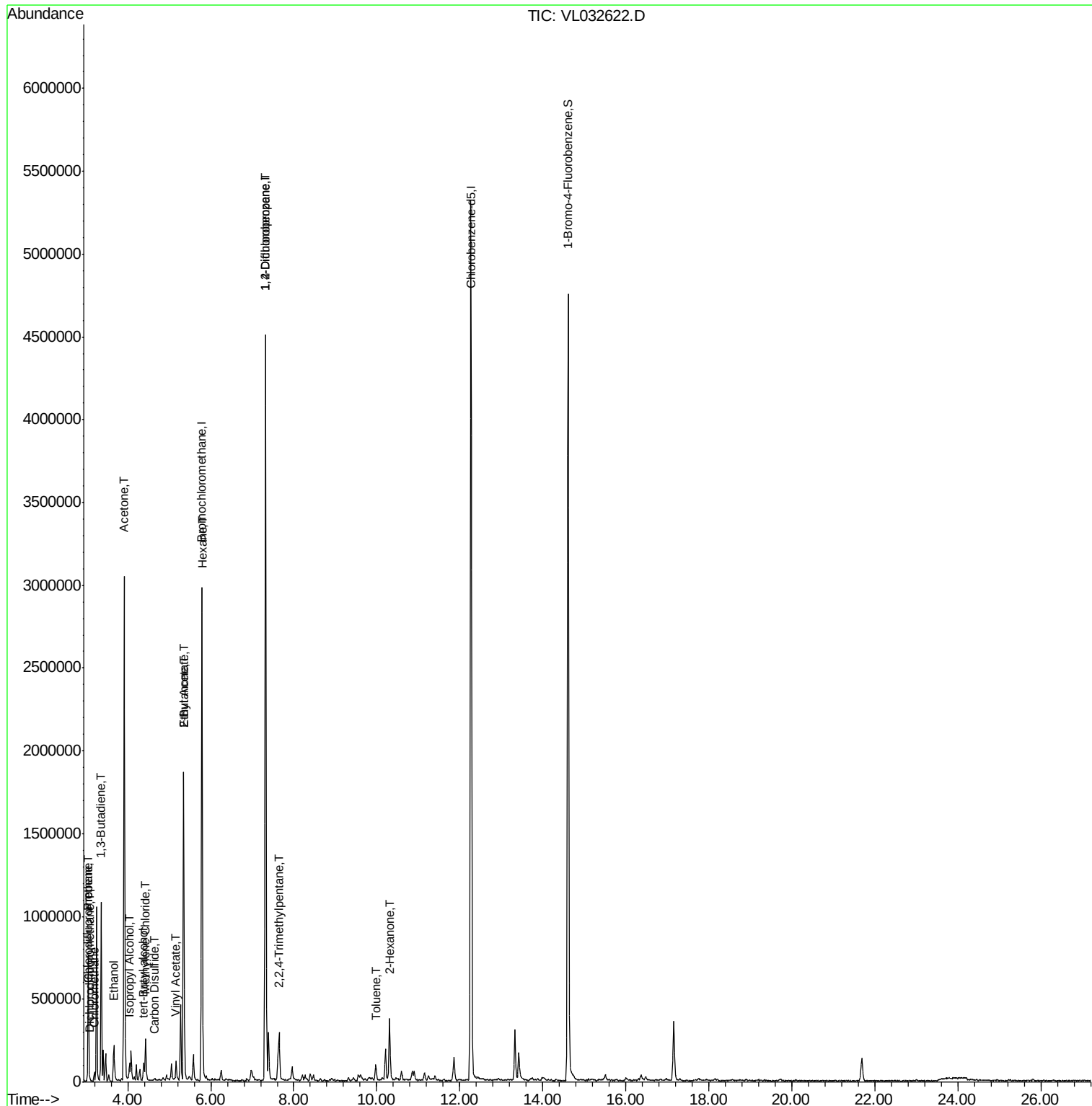
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.09	85	6250	0.049	ppbv	93
3) Chlorodifluoromethane	3.03	51	11215	0.098	ppbv	97
4) Chloromethane	3.18	50	4066	0.061	ppbv	93
9) Propene	3.05	41	303090	6.087	ppbv	98
13) Ethanol	3.66	45	232203	15.514	ppbv	98
15) Acetone	3.91	43	3006638	24.820	ppbv	93
16) 1,3-Butadiene	3.36	39	257565	5.243	ppbv #	6
17) tert-Butyl alcohol	4.38	59	75128	4.935	ppbv #	100
19) Isopropyl Alcohol	4.04	45	110099	1.305	ppbv #	93
20) Methylene Chloride	4.43	84	81240	1.385	ppbv	92
23) Vinyl Acetate	5.16	43	85378	0.399	ppbv #	89
25) Ethyl Acetate	5.34	43	2003464	6.816	ppbv #	76
26) Hexane	5.80	57	19355	0.146	ppbv #	1
27) Carbon Disulfide	4.64	76	8480	0.059	ppbv #	44
34) 2-Butanone	5.34	43	2003464	10.842	ppbv	97
39) 1,2-Dichloropropane	7.32	63	841559	7.447	ppbv #	25
44) 2,2,4-Trimethylpentane	7.65	57	337369	0.688	ppbv #	65
51) 2-Hexanone	10.30	43	296646	1.235	ppbv #	98
53) Toluene	9.98	91	69223	0.227	ppbv	99

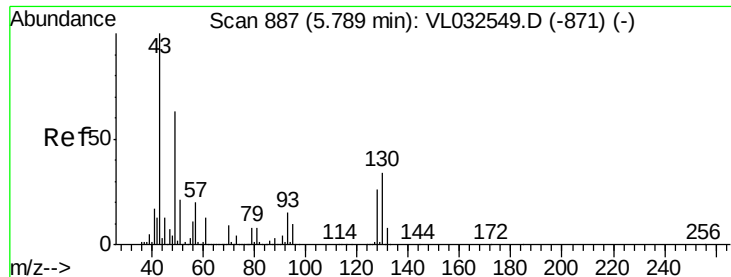
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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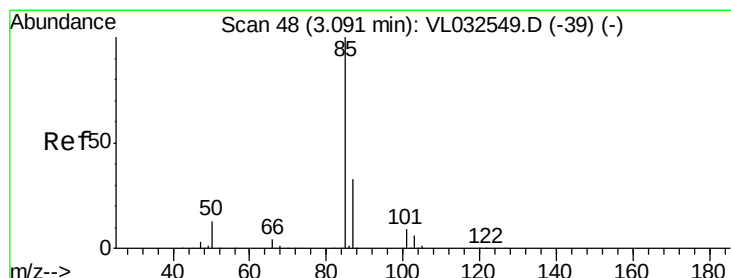
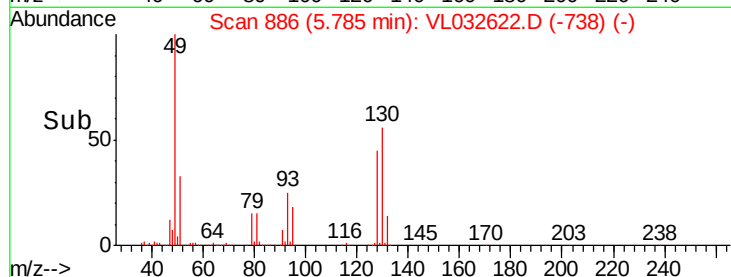
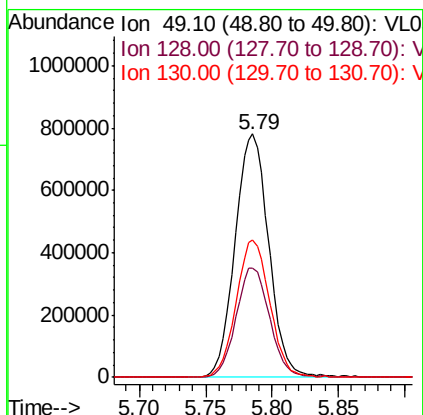
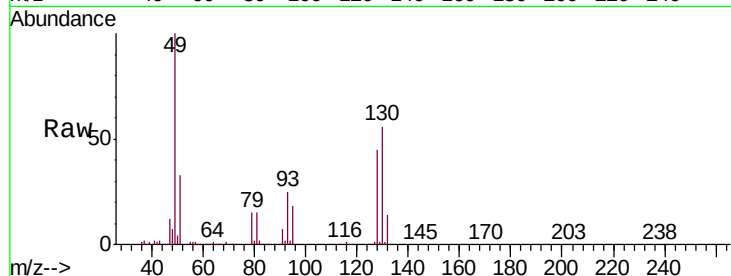




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.79 min Scan# 886
 Delta R.T. -0.02 min
 Lab File: VL032622.D
 Acq: 12 Oct 2018 2:49

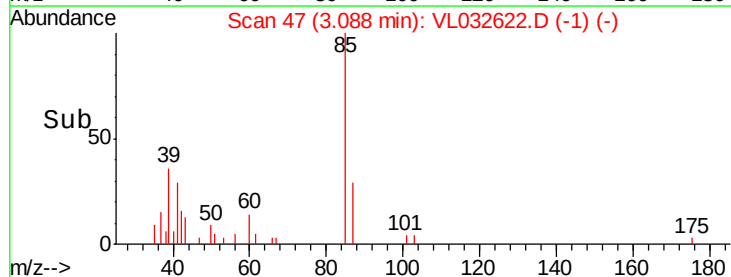
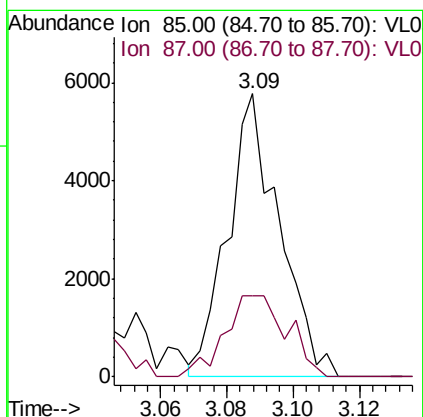
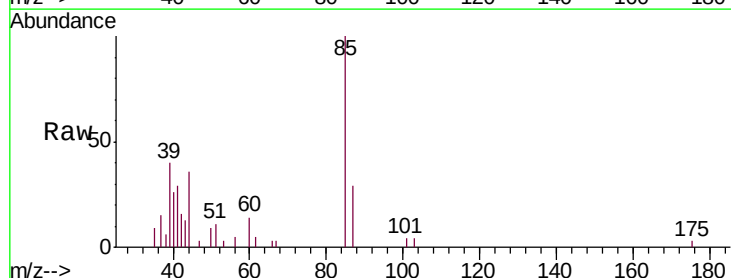
Instrument :
 MSVOA_L
 ClientSampleId :
 Q4-SVI-100518DL

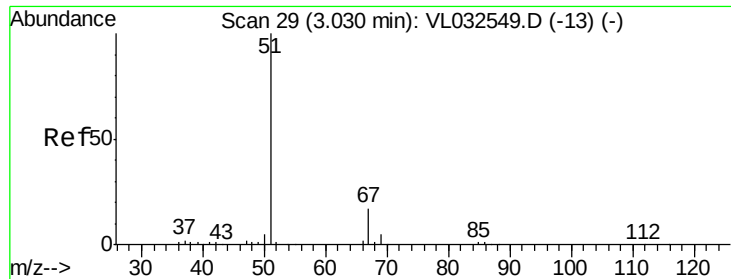
Tgt Ion: 49 Resp: 1380065
 Ion Ratio Lower Upper
 49 100
 128 44.9 20.7 62.1
 130 56.5 26.6 79.7



#2
 Dichlorodifluoromethane
 Concen: 0.049 ppbv
 RT: 3.09 min Scan# 47
 Delta R.T. -0.02 min
 Lab File: VL032622.D
 Acq: 12 Oct 2018 2:49

Tgt Ion: 85 Resp: 6250
 Ion Ratio Lower Upper
 85 100
 87 28.7 26.2 39.4





#3

Chlorodifluoromethane

Concen: 0.098 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.02 min

Lab File: VL032622.D

Acq: 12 Oct 2018 2:49

Instrument :

MSVOA_L

ClientSampleId :

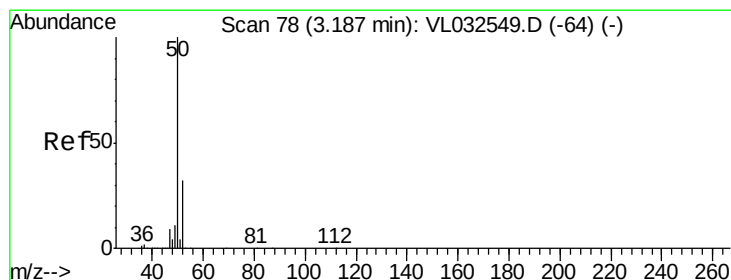
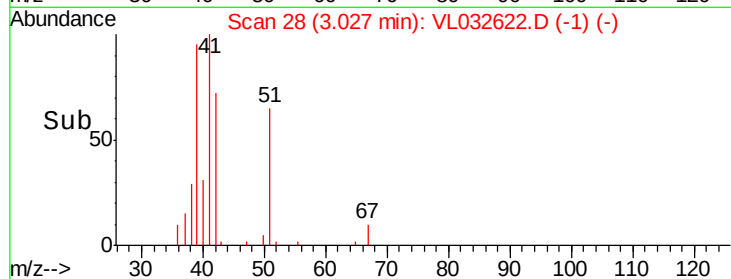
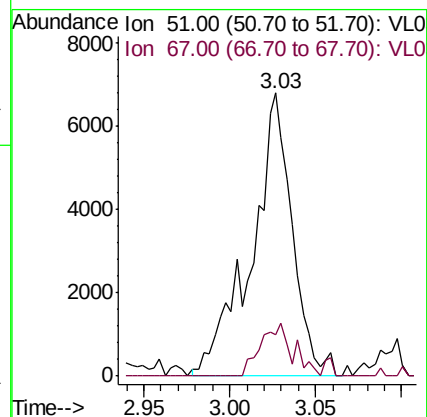
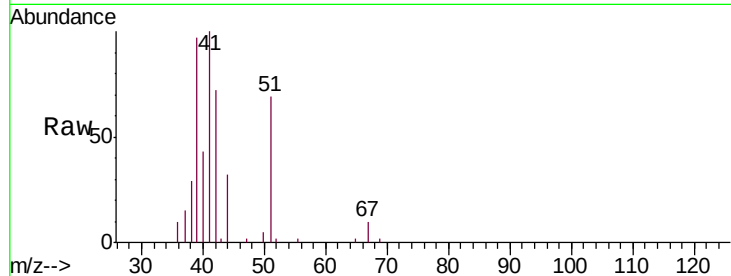
Q4-SVI-100518DL

Tgt Ion: 51 Resp: 11215

Ion Ratio Lower Upper

51 100

67 16.0 13.8 20.8



#4

Chloromethane

Concen: 0.061 ppbv

RT: 3.18 min Scan# 77

Delta R.T. -0.02 min

Lab File: VL032622.D

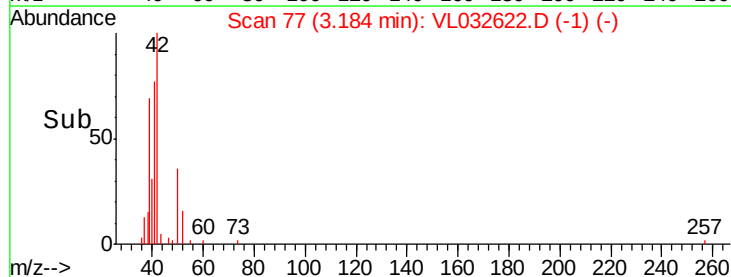
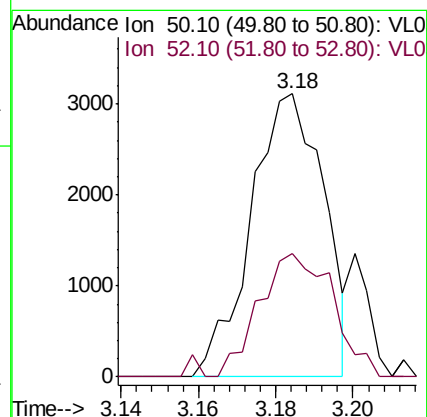
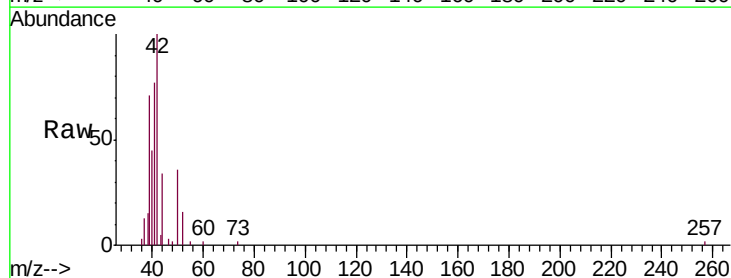
Acq: 12 Oct 2018 2:49

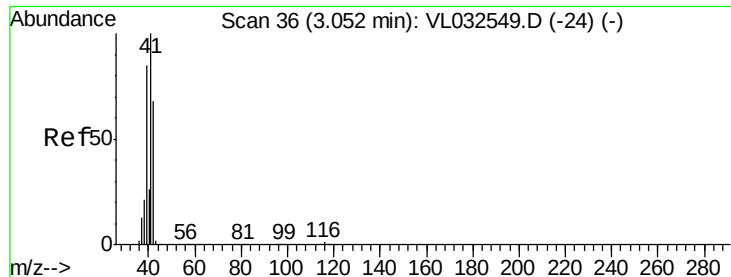
Tgt Ion: 50 Resp: 4066

Ion Ratio Lower Upper

50 100

52 35.9 25.6 38.4





#9

Propene

Concen: 6.087 ppbv

RT: 3.05 min Scan# 35

Delta R.T. -0.02 min

Lab File: VL032622.D

Acq: 12 Oct 2018 2:49

Instrument :

MSVOA_L

ClientSampleId :

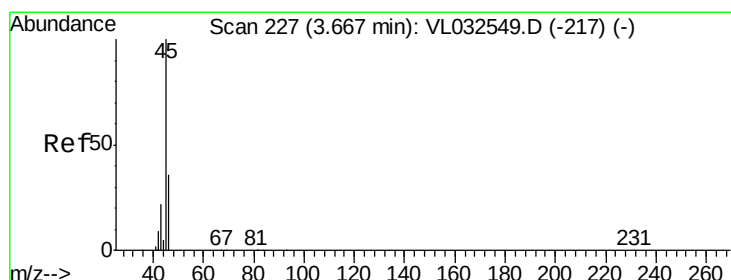
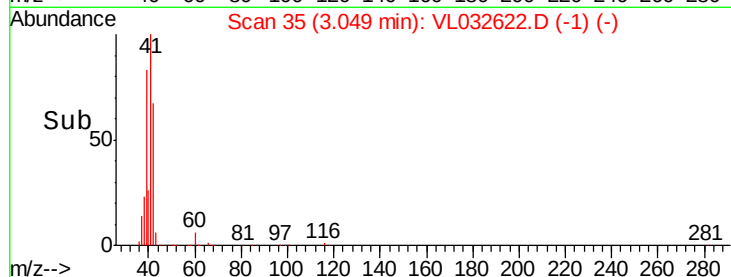
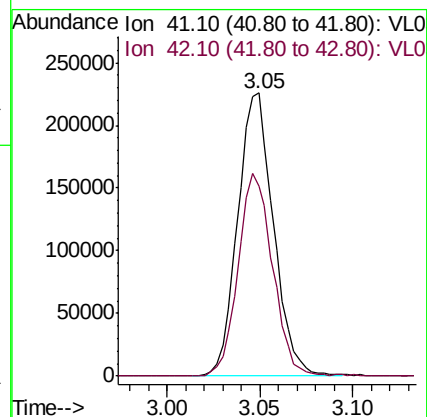
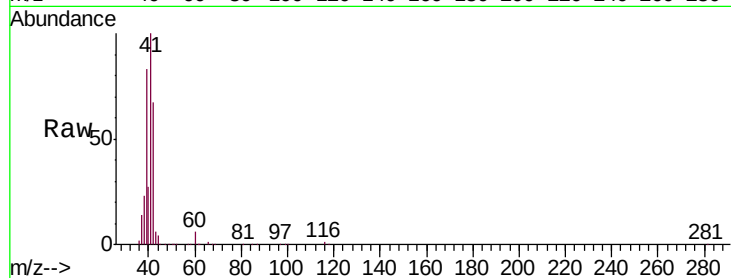
Q4-SVI-100518DL

Tgt Ion: 41 Resp: 303090

Ion Ratio Lower Upper

41 100

42 69.4 56.6 84.8



#13

Ethanol

Concen: 15.514 ppbv

RT: 3.66 min Scan# 226

Delta R.T. -0.02 min

Lab File: VL032622.D

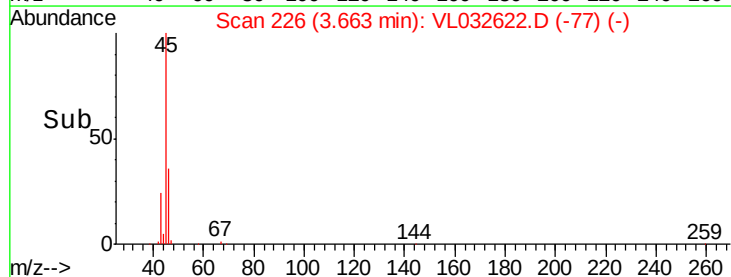
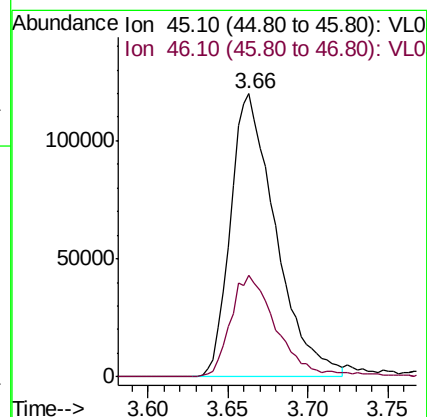
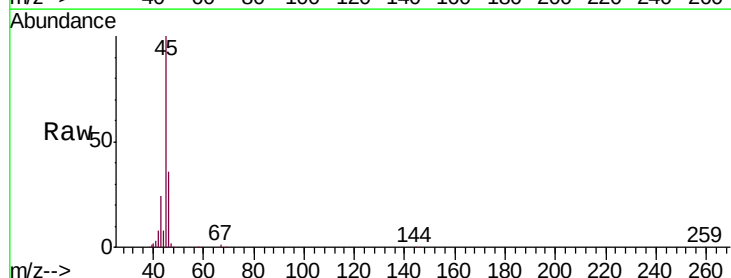
Acq: 12 Oct 2018 2:49

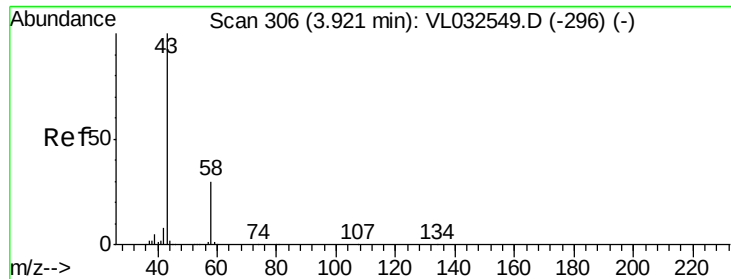
Tgt Ion: 45 Resp: 232203

Ion Ratio Lower Upper

45 100

46 36.9 14.2 56.8





#15

Acetone

Concen: 24.820 ppbv

RT: 3.91 min Scan# 303

Delta R.T. -0.03 min

Lab File: VL032622.D

Acq: 12 Oct 2018 2:49

Instrument :

MSVOA_L

ClientSampleId :

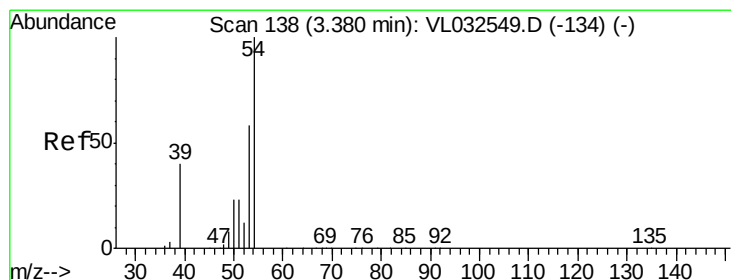
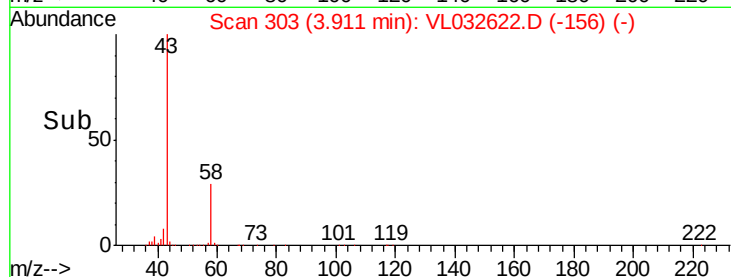
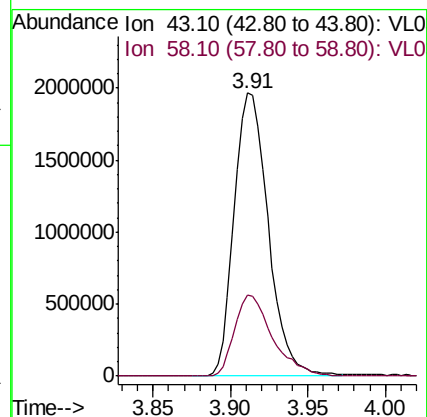
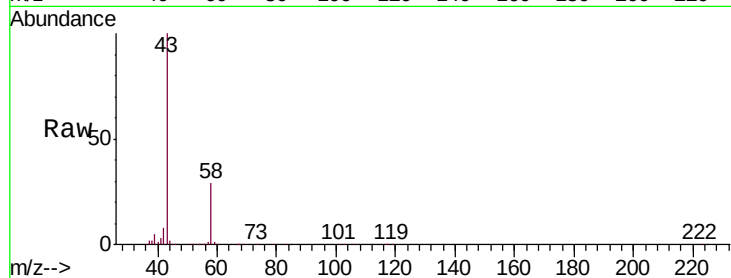
Q4-SVI-100518DL

Tgt Ion: 43 Resp: 3006638

Ion Ratio Lower Upper

43 100

58 31.9 22.6 33.8



#16

1,3-Butadiene

Concen: 5.243 ppbv

RT: 3.36 min Scan# 131

Delta R.T. -0.04 min

Lab File: VL032622.D

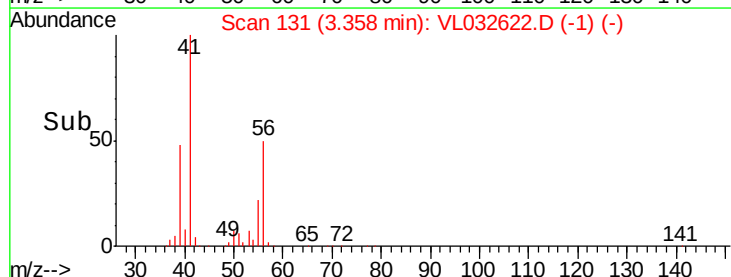
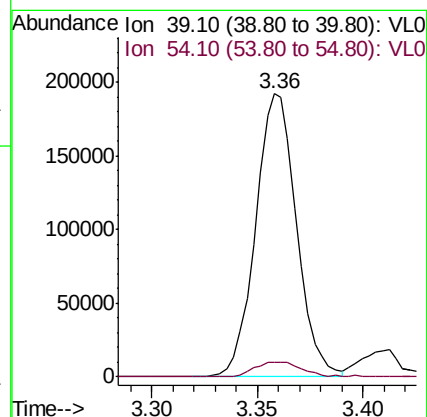
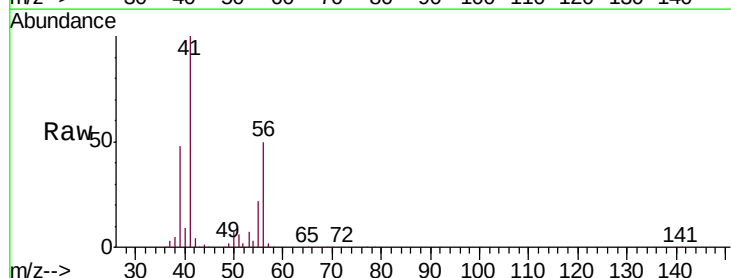
Acq: 12 Oct 2018 2:49

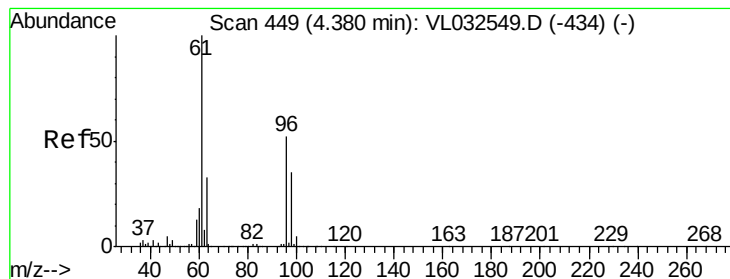
Tgt Ion: 39 Resp: 257565

Ion Ratio Lower Upper

39 100

54 6.6 80.8 121.2#





#17

tert-Butyl alcohol

Concen: 4.935 ppbv

RT: 4.38 min Scan# 448

Delta R.T. -0.03 min

Lab File: VL032622.D

Acq: 12 Oct 2018 2:49

Instrument :

MSVOA_L

ClientSampleId :

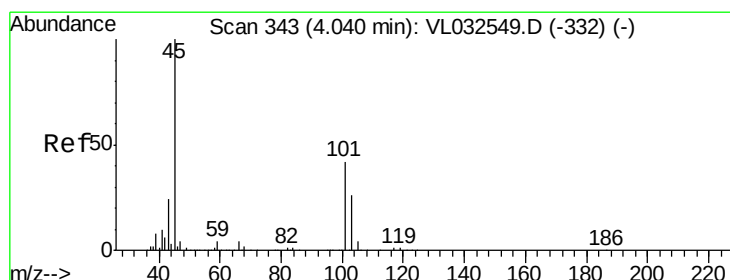
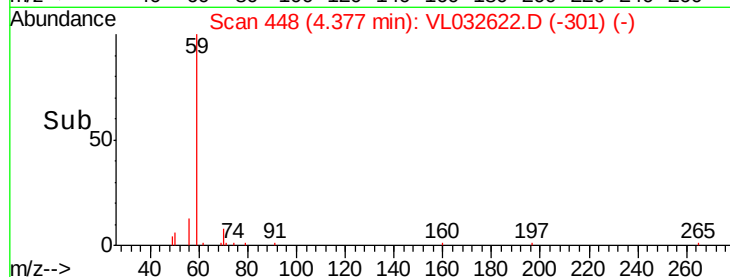
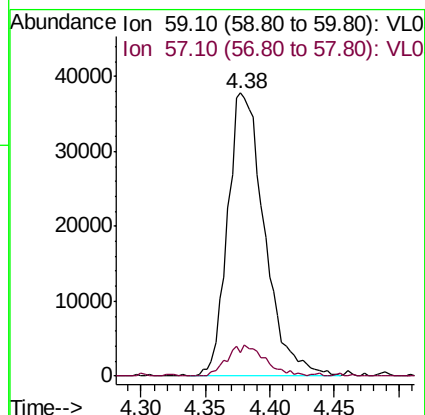
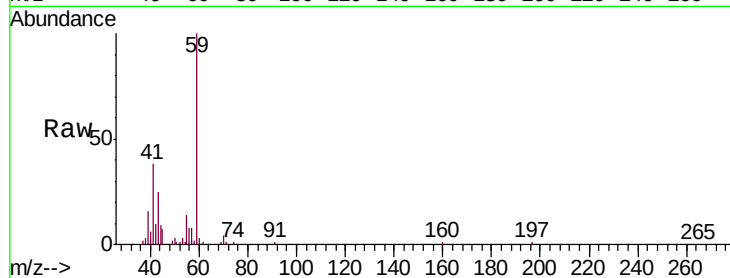
Q4-SVI-100518DL

Tgt Ion: 59 Resp: 75128

Ion Ratio Lower Upper

59 100

57 11.2 0.0 0.0#



#19

Isopropyl Alcohol

Concen: 1.305 ppbv

RT: 4.04 min Scan# 344

Delta R.T. -0.02 min

Lab File: VL032622.D

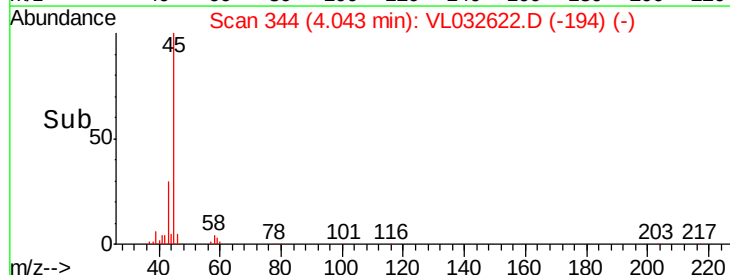
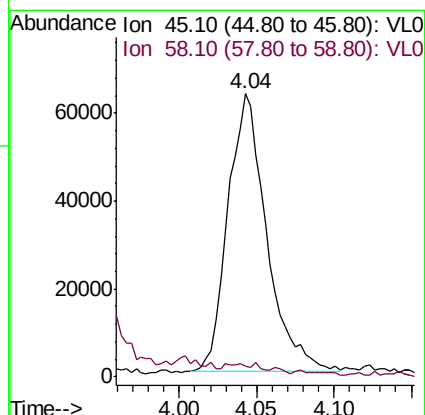
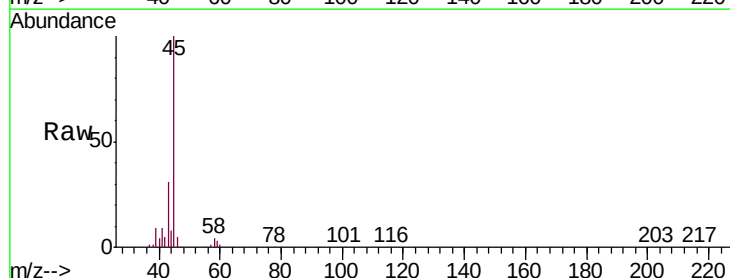
Acq: 12 Oct 2018 2:49

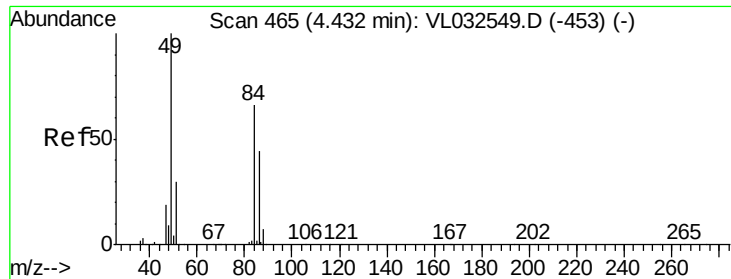
Tgt Ion: 45 Resp: 110099

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#

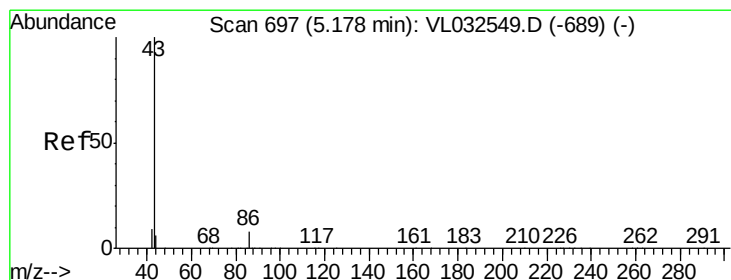
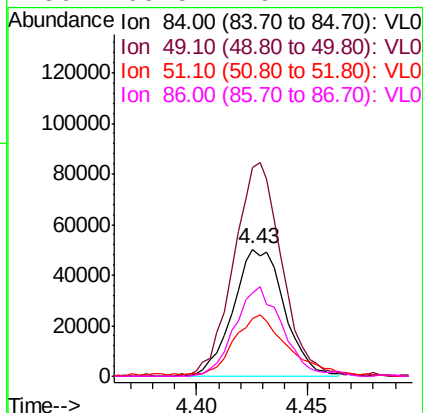
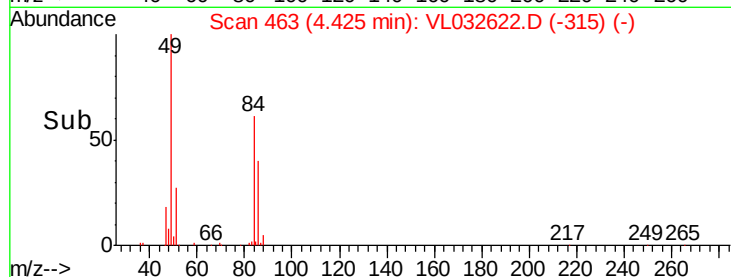
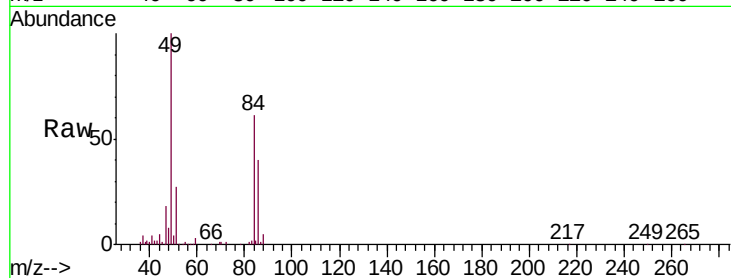




#20
Methylene Chloride
Concen: 1.385 ppbv
RT: 4.43 min Scan# 463
Delta R.T. -0.02 min
Lab File: VL032622.D
Acq: 12 Oct 2018 2:49

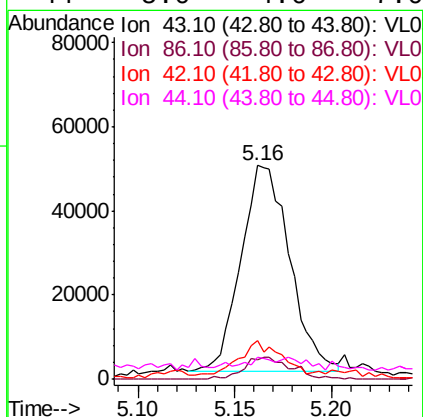
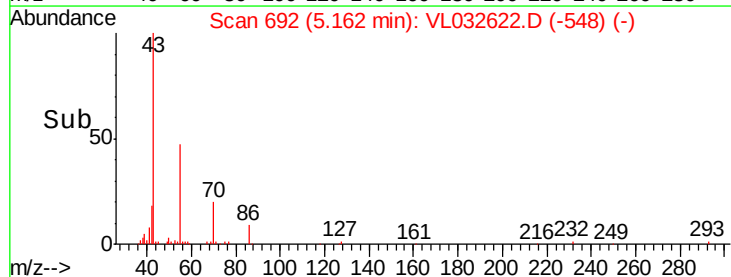
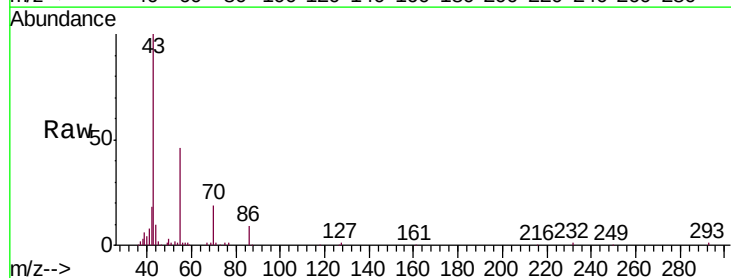
Instrument :
MSVOA_L
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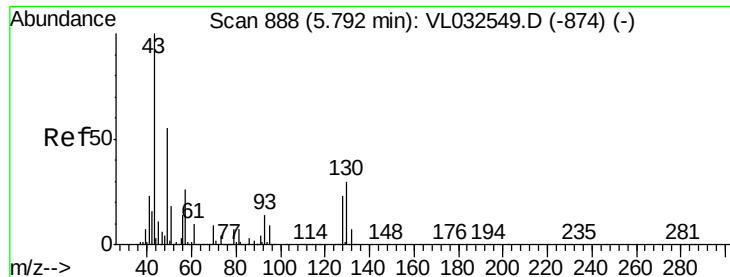
Tgt Ion:	84	Resp:	81240
Ion	Ratio	Lower	Upper
84	100		
49	163.2	119.1	178.7
51	43.5	35.2	52.8
86	65.5	49.4	74.2



#23
Vinyl Acetate
Concen: 0.399 ppbv
RT: 5.16 min Scan# 692
Delta R.T. -0.04 min
Lab File: VL032622.D
Acq: 12 Oct 2018 2:49

Tgt Ion:	43	Resp:	85378
Ion	Ratio	Lower	Upper
43	100		
86	9.1	5.9	8.9#
42	16.8	6.9	10.3#
44	5.0	4.6	7.0





#25

Ethyl Acetate

Concen: 6.816 ppbv

RT: 5.34 min Scan# 749

Delta R.T. -0.47 min

Lab File: VL032622.D

Acq: 12 Oct 2018 2:49

Instrument :

MSVOA_L

ClientSampleId :

Q4-SVI-100518DL

Tgt Ion: 43 Resp: 2003464

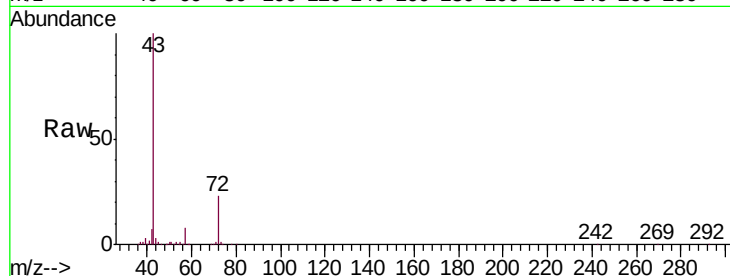
Ion Ratio Lower Upper

43 100

45 0.9 8.0 12.0#

61 0.0 7.6 11.4#

70 0.3 5.8 8.8#

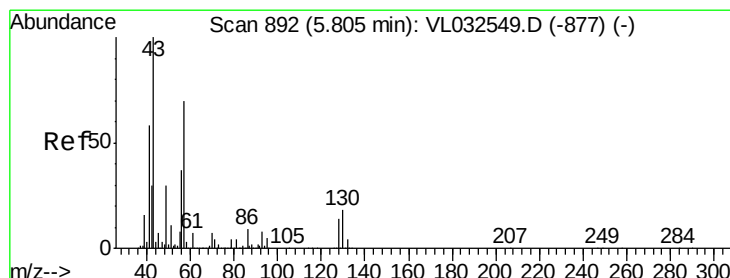
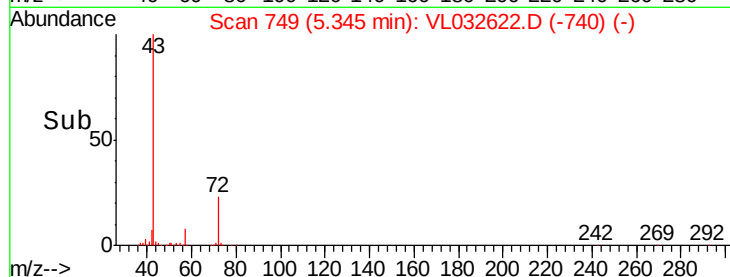
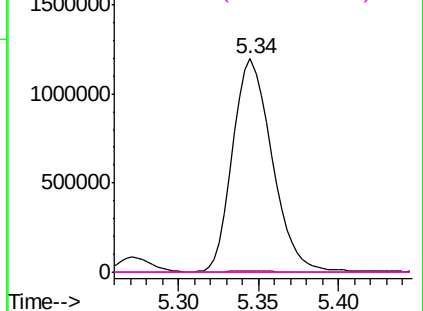


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.146 ppbv

RT: 5.80 min Scan# 890

Delta R.T. -0.03 min

Lab File: VL032622.D

Acq: 12 Oct 2018 2:49

Tgt Ion: 57 Resp: 19355

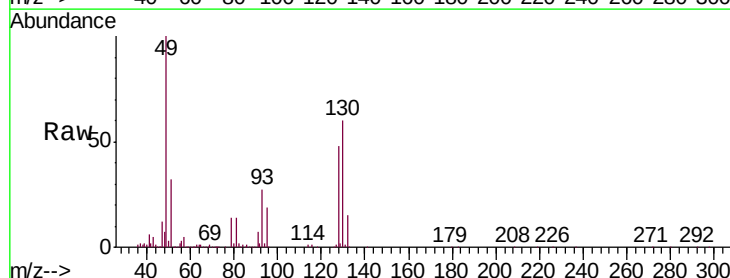
Ion Ratio Lower Upper

57 100

41 259.5 69.0 103.4#

43 0.0 172.1 258.1#

56 0.0 42.2 63.2#

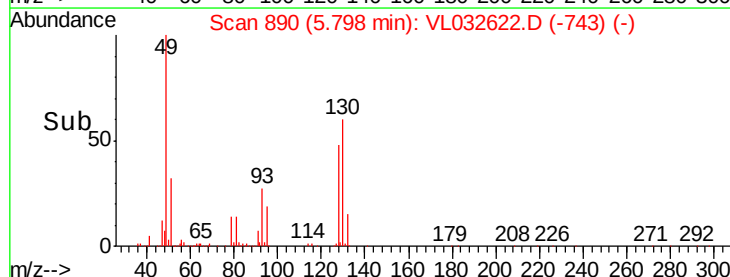
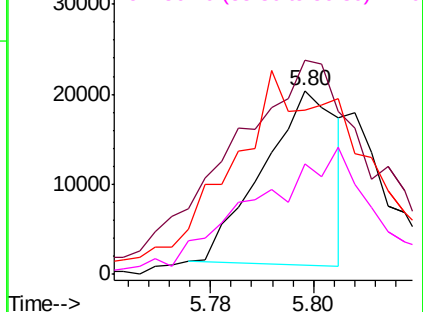


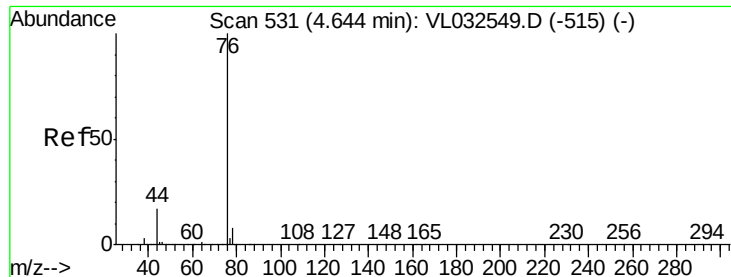
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.059 ppbv

RT: 4.64 min Scan# 530

Delta R.T. -0.02 min

Lab File: VL032622.D

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Instrument :

MSVOA_L

ClientSampleId :

Q4-SVI-100518DL

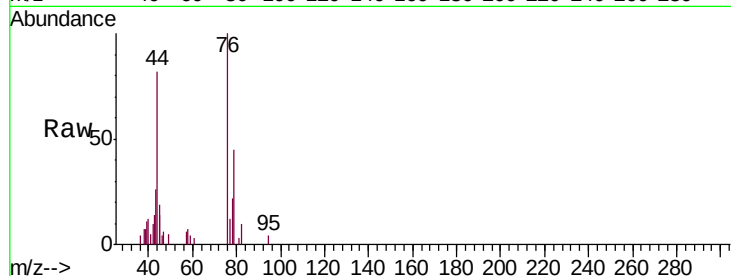
Tgt Ion: 76 Resp: 8480

Ion Ratio Lower Upper

76 100

44 52.9 14.0 21.0#

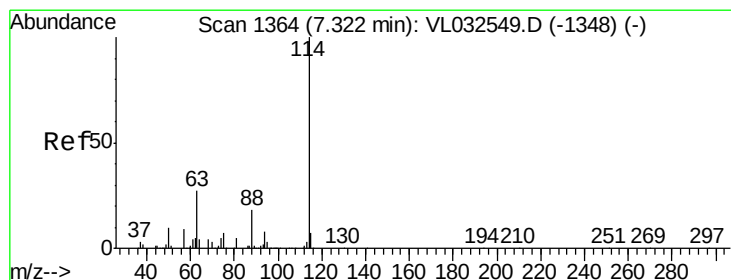
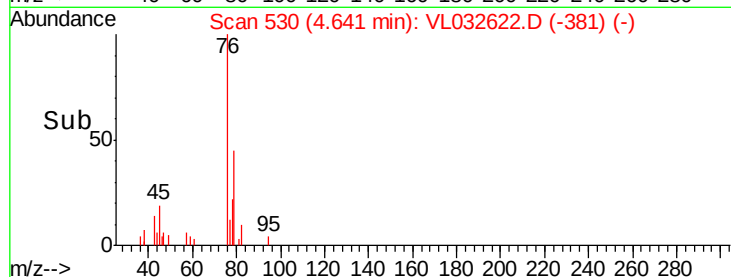
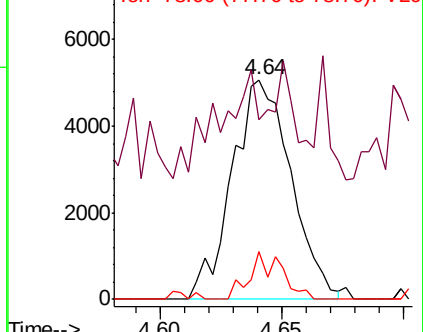
78 12.9 7.5 11.3#



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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1363

Delta R.T. -0.03 min

Lab File: VL032622.D

Acq: 12 Oct 2018 2:49

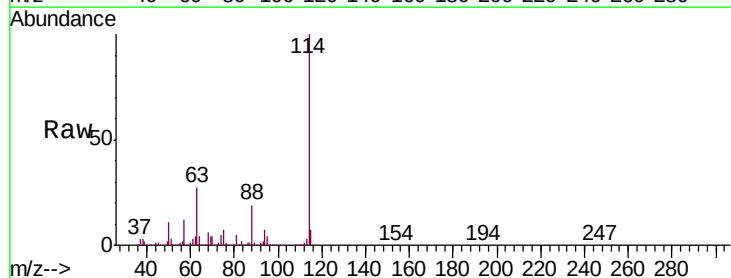
Tgt Ion: 114 Resp: 3103037

Ion Ratio Lower Upper

114 100

63 27.2 22.2 33.4

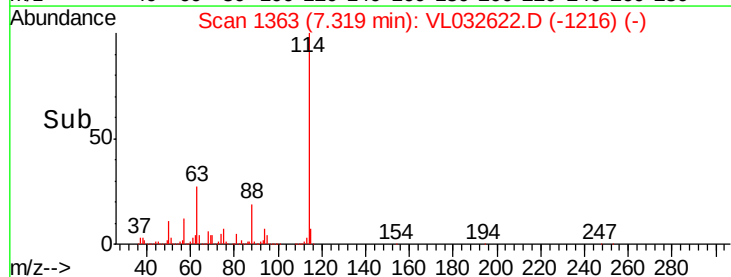
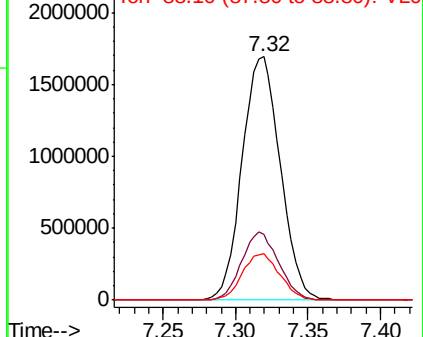
88 18.7 15.0 22.4

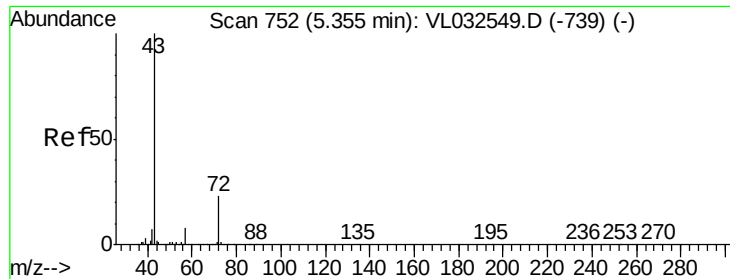


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 10.842 ppbv

RT: 5.34 min Scan# 749

Delta R.T. -0.03 min

Lab File: VL032622.D

Acq: 12 Oct 2018 2:49

Instrument :

MSVOA_L

ClientSampleId :

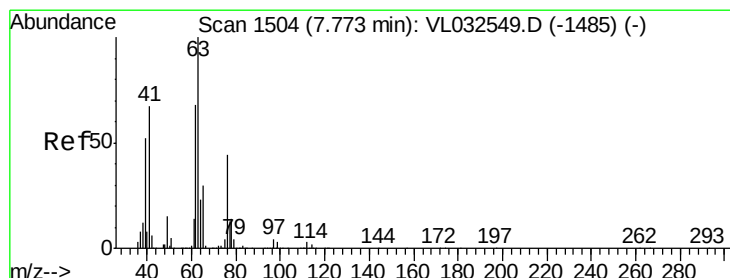
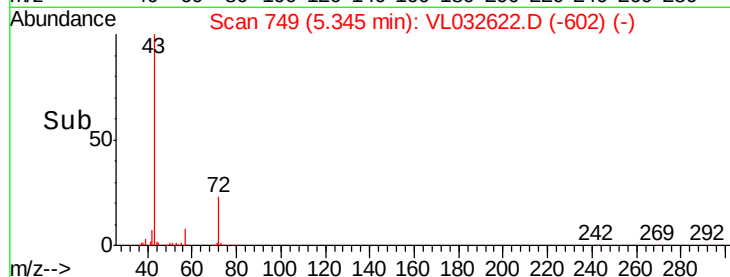
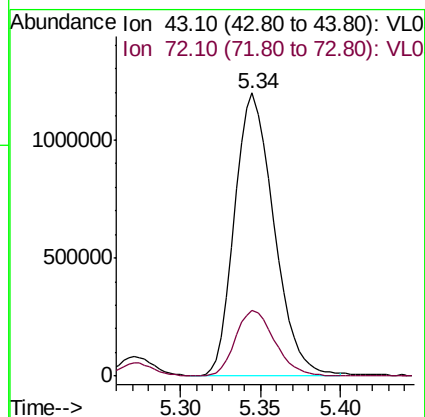
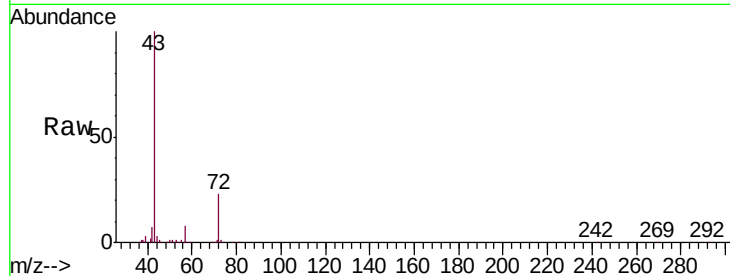
Q4-SVI-100518DL

Tgt Ion: 43 Resp: 2003464

Ion Ratio Lower Upper

43 100

72 23.5 17.8 26.6



#39

1,2-Dichloropropane

Concen: 7.447 ppbv

RT: 7.32 min Scan# 1362

Delta R.T. -0.47 min

Lab File: VL032622.D

Acq: 12 Oct 2018 2:49

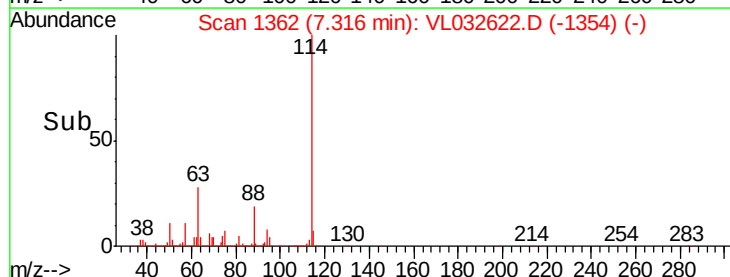
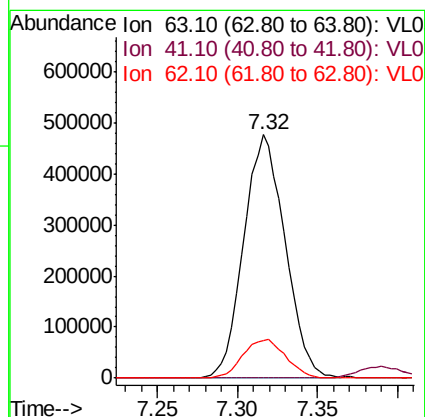
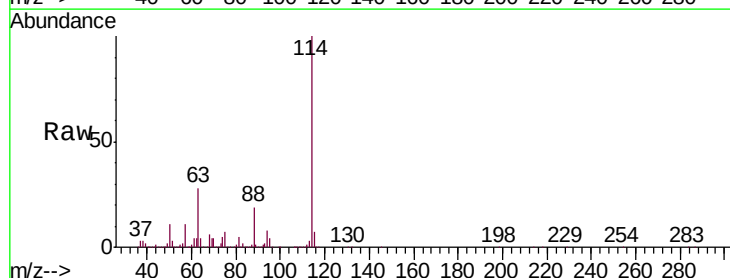
Tgt Ion: 63 Resp: 841559

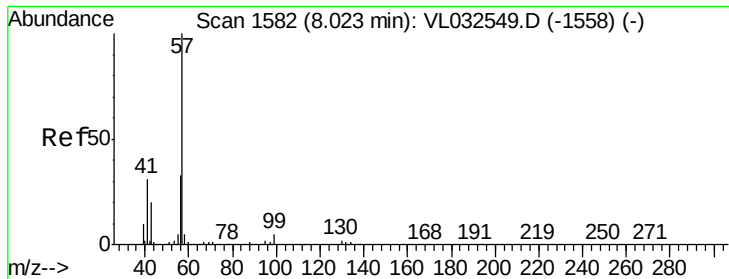
Ion Ratio Lower Upper

63 100

41 0.1 55.4 83.0#

62 15.7 55.4 83.0#

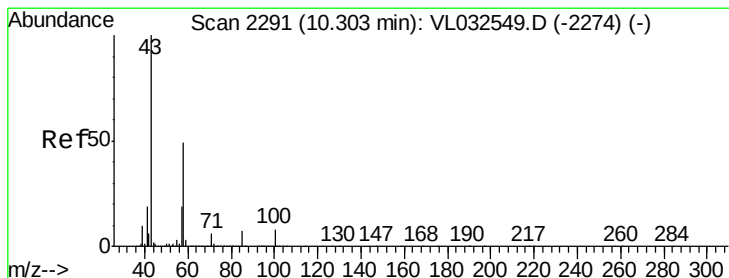
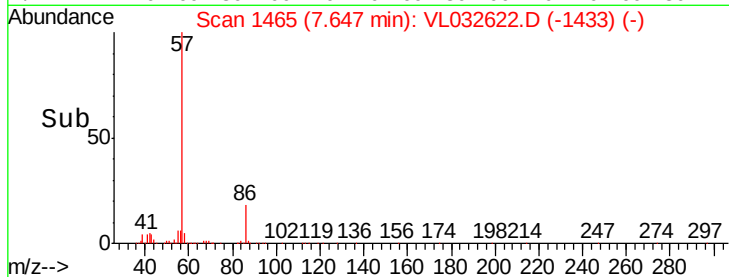
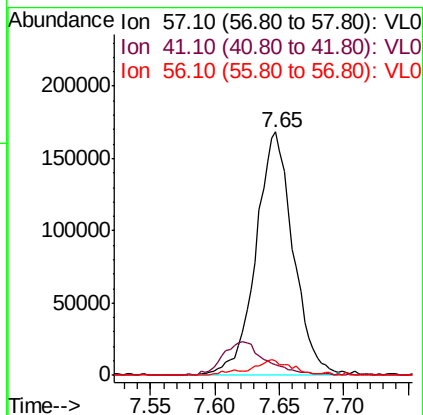
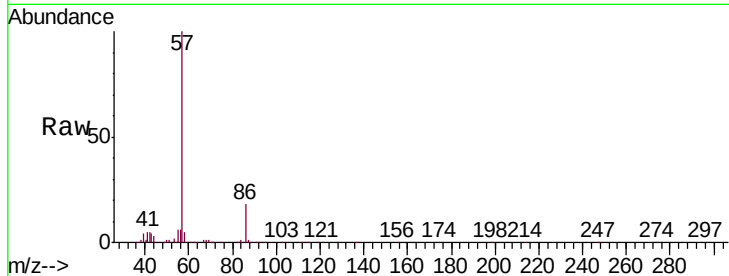




#44
 2,2,4-Trimethylpentane
 Concen: 0.688 ppbv
 RT: 7.65 min Scan# 1465
 Delta R.T. -0.40 min
 Lab File: VL032622.D
 Acq: 12 Oct 2018 2:49

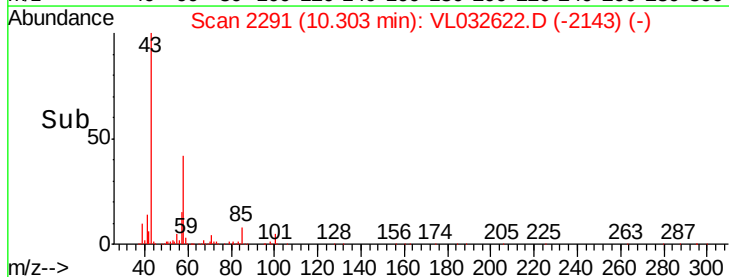
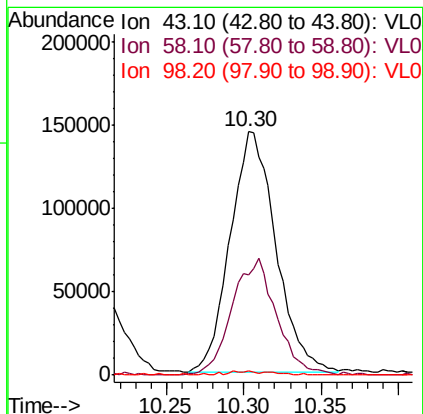
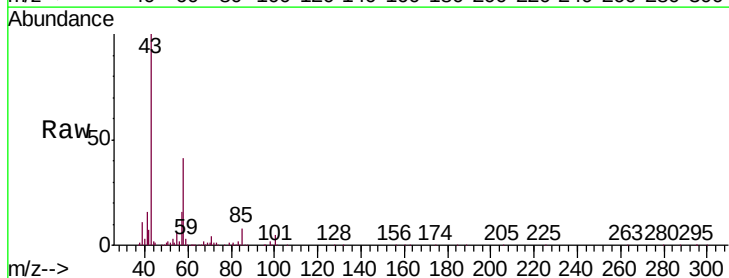
Instrument :
 MSVOA_L
 ClientSampleId :
 Q4-SVI-100518DL

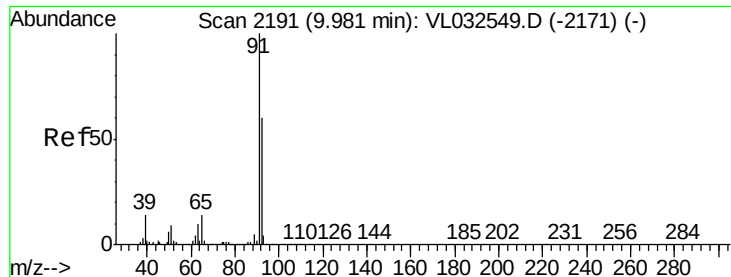
Tgt Ion: 57 Resp: 337369
 Ion Ratio Lower Upper
 57 100
 41 16.2 24.4 36.6#
 56 8.0 25.7 38.5#



#51
 2-Hexanone
 Concen: 1.235 ppbv
 RT: 10.30 min Scan# 2291
 Delta R.T. -0.02 min
 Lab File: VL032622.D
 Acq: 12 Oct 2018 2:49

Tgt Ion: 43 Resp: 296646
 Ion Ratio Lower Upper
 43 100
 58 47.8 39.2 58.8
 98 1.7 0.4 0.6#





#53

Toluene

Concen: 0.227 ppbv

RT: 9.98 min Scan# 2190

Delta R.T. -0.03 min

Lab File: VL032622.D

Acq: 12 Oct 2018 2:49

Instrument :

MSVOA_L

ClientSampleId :

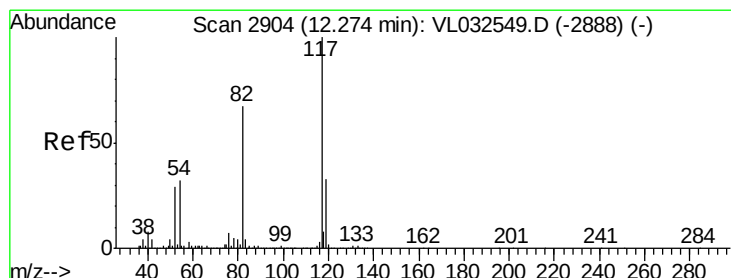
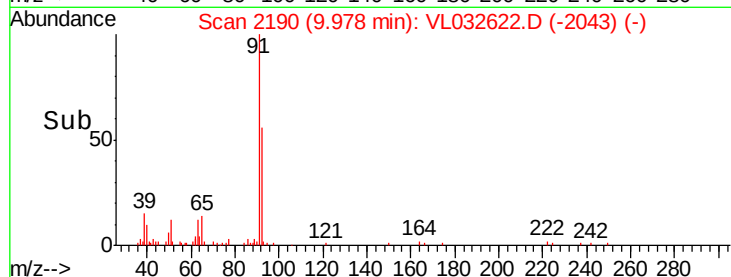
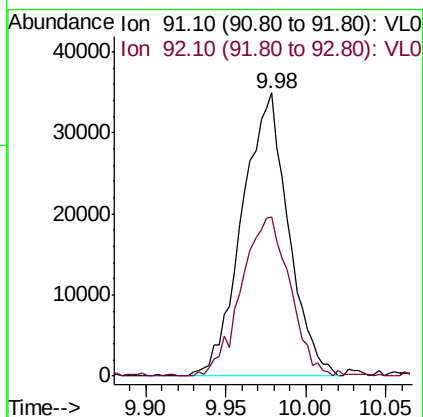
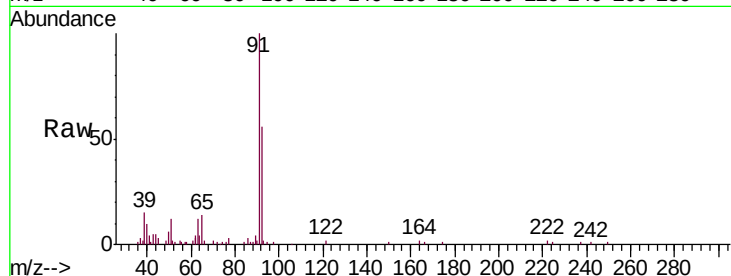
Q4-SVI-100518DL

Tgt Ion: 91 Resp: 69223

Ion Ratio Lower Upper

91 100

92 59.5 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2902

Delta R.T. -0.03 min

Lab File: VL032622.D

Acq: 12 Oct 2018 2:49

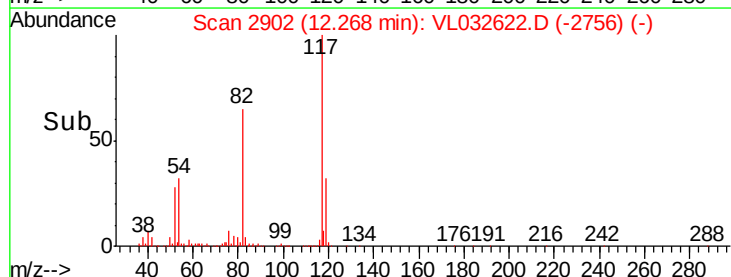
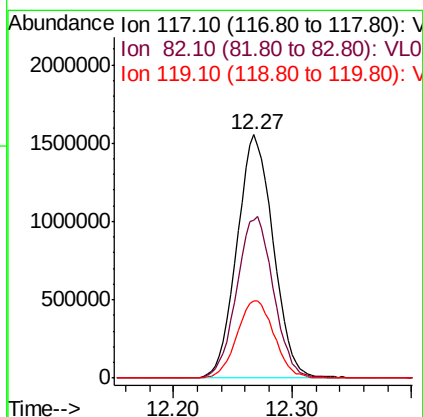
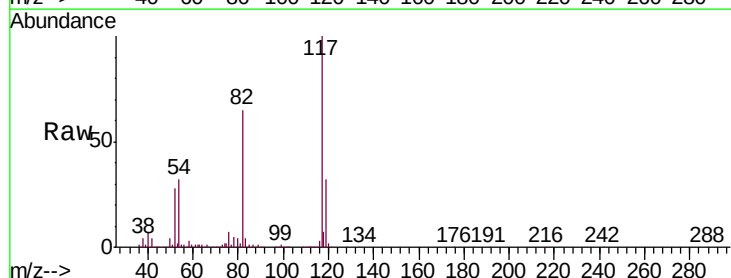
Tgt Ion: 117 Resp: 3286504

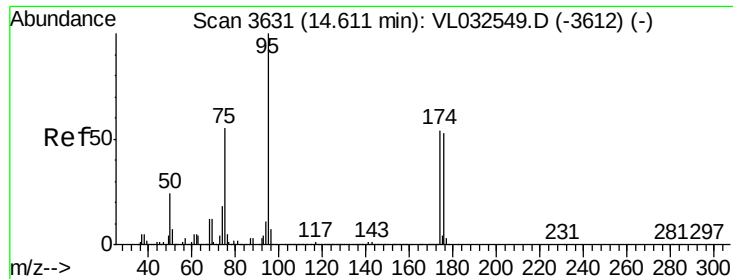
Ion Ratio Lower Upper

117 100

82 67.3 53.0 79.6

119 32.6 45.9 68.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.587 ppbv

RT: 14.61 min Scan# 3630

Delta R.T. -0.03 min

Lab File: VL032622.D

Acq: 12 Oct 2018 2:49

Instrument :

MSVOA_L

ClientSampleId :

Q4-SVI-100518DL

Tgt Ion: 95 Resp: 2375955

Ion Ratio Lower Upper

95 100

174 58.1 46.3 69.5

175 4.3 3.4 5.0

