

Data File : VL032619.D
Acq On : 12 Oct 2018 00:47
Operator : SY/AP
Sample : J5370-03DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
Q3-SVI-100518DL

Quant Time: Oct 12 01:58:23 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-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	1402989	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3135399	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3265973	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2359255	9.58	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

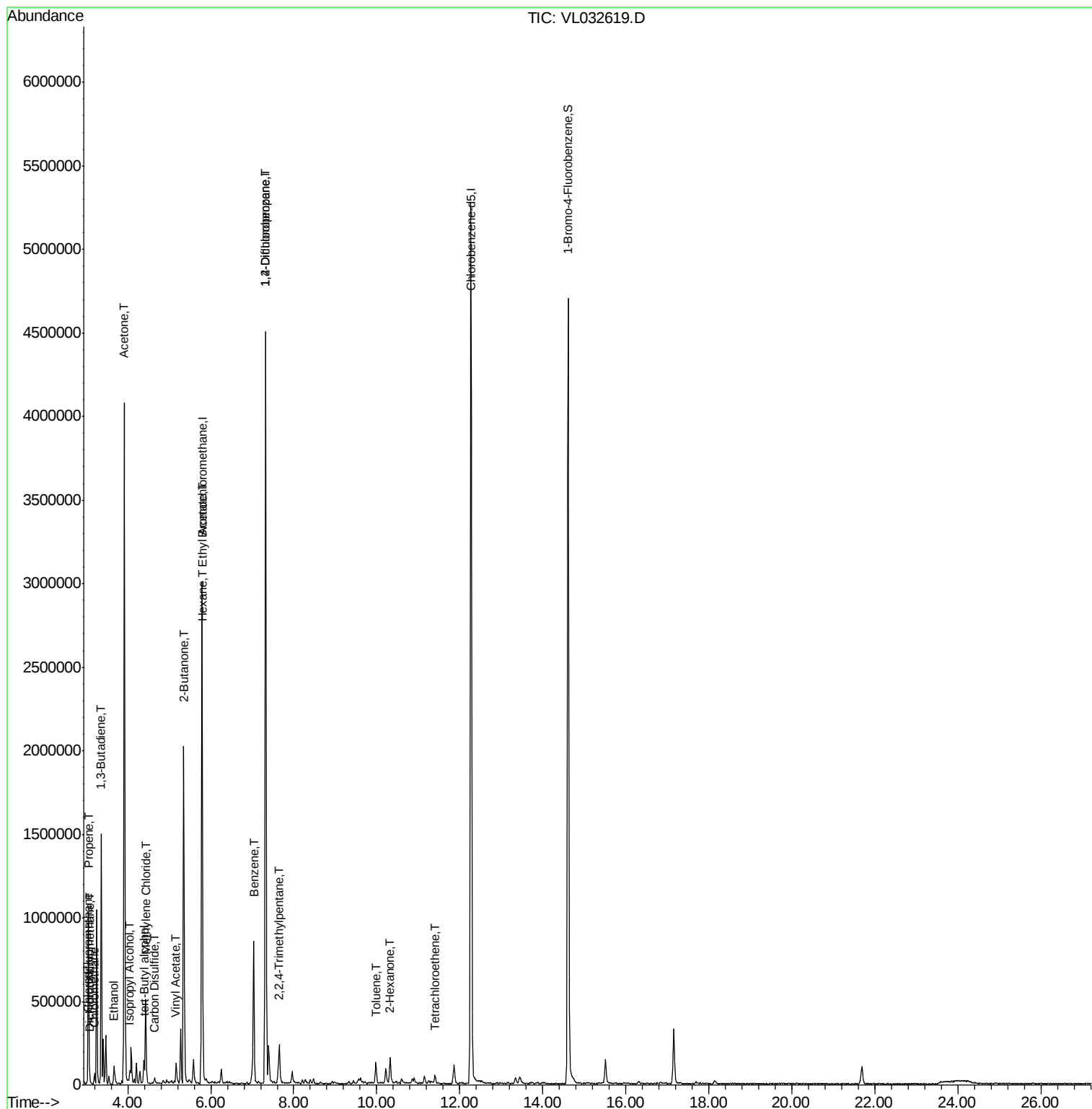
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.09	85	7512	0.058	ppbv	99
3) Chlorodifluoromethane	3.03	51	20113	0.172	ppbv #	91
4) Chloromethane	3.19	50	2274	0.033	ppbv #	73
9) Propene	3.05	41	400210	7.906	ppbv	98
13) Ethanol	3.67	45	120476	7.918	ppbv	99
15) Acetone	3.91	43	4122449	33.475	ppbv	95
16) 1,3-Butadiene	3.36	39	350674	7.021	ppbv #	6
17) tert-Butyl alcohol	4.39	59	94338	6.096	ppbv #	100
19) Isopropyl Alcohol	4.05	45	83397	0.972	ppbv #	93
20) Methylene Chloride	4.43	84	170072	2.852	ppbv	97
23) Vinyl Acetate	5.17	43	106703	0.490	ppbv #	96
25) Ethyl Acetate	5.80	43	40116	0.134	ppbv #	95
26) Hexane	5.80	57	33232	0.246	ppbv #	1
27) Carbon Disulfide	4.64	76	40062	0.276	ppbv #	79
34) 2-Butanone	5.35	43	2253202	12.068	ppbv	98
36) Benzene	7.03	78	685565	2.706	ppbv	97
39) 1,2-Dichloropropane	7.32	63	839088	7.348	ppbv #	25
44) 2,2,4-Trimethylpentane	7.65	57	268435	0.542	ppbv #	61
51) 2-Hexanone	10.32	43	119519	0.492	ppbv #	100
52) Tetrachloroethene	11.40	164	4738	0.054	ppbv #	67
53) Toluene	9.98	91	91368	0.296	ppbv	100

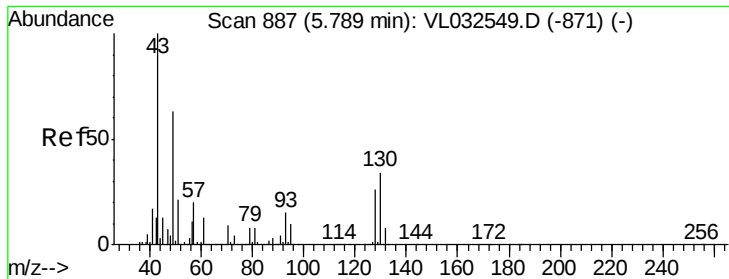
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032619.D

Acq: 12 Oct 2018 00:47

Instrument :

MSVOA_L

ClientSampleId :

Q3-SVI-100518DL

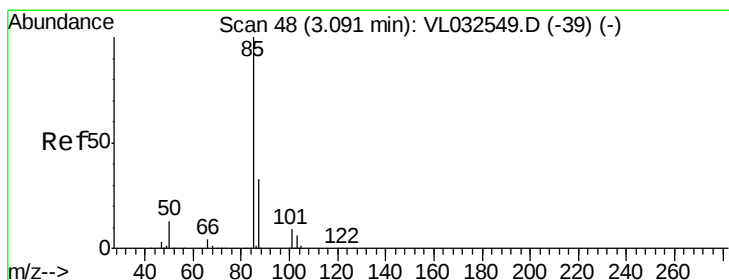
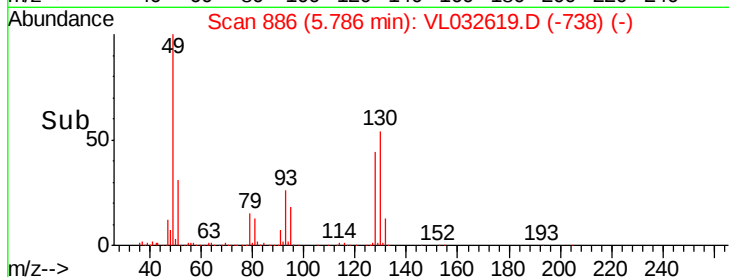
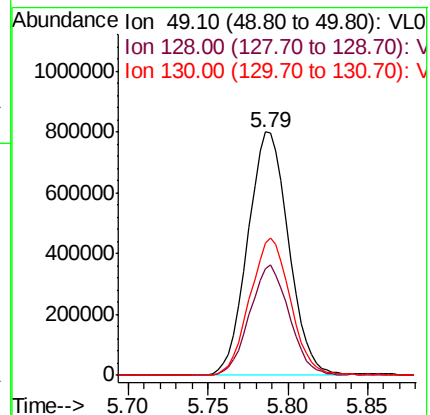
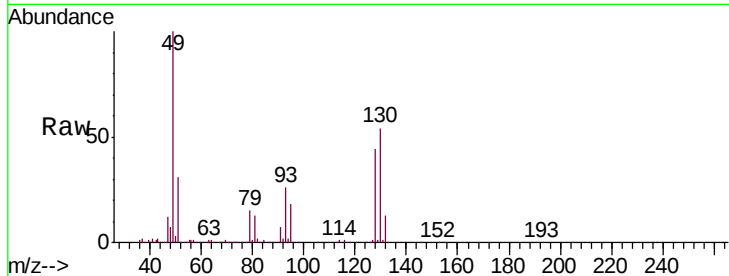
Tgt Ion: 49 Resp: 1402989

Ion Ratio Lower Upper

49 100

128 44.3 20.7 62.1

130 56.6 26.6 79.7



#2

Dichlorodifluoromethane

Concen: 0.058 ppbv

RT: 3.09 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL032619.D

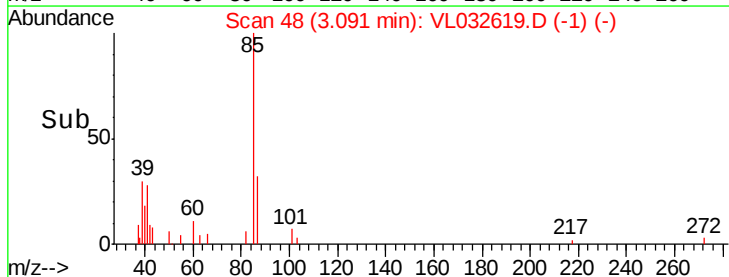
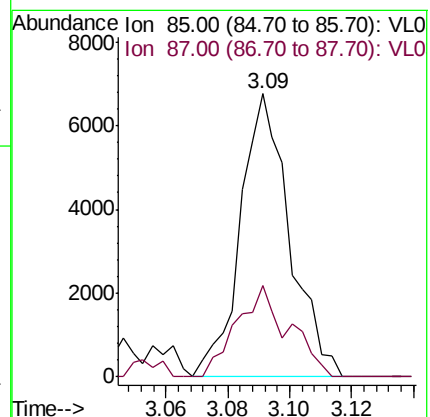
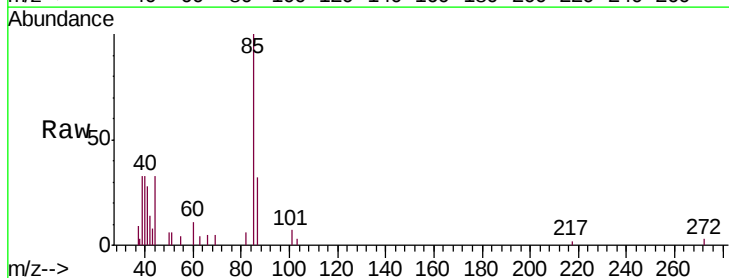
Acq: 12 Oct 2018 00:47

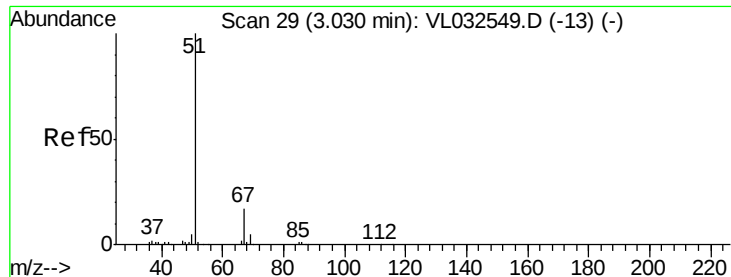
Tgt Ion: 85 Resp: 7512

Ion Ratio Lower Upper

85 100

87 32.3 26.2 39.4





#3

Chlorodifluoromethane

Concen: 0.172 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.02 min

Lab File: VL032619.D

Acq: 12 Oct 2018 00:47

Instrument :

MSVOA_L

ClientSampleId :

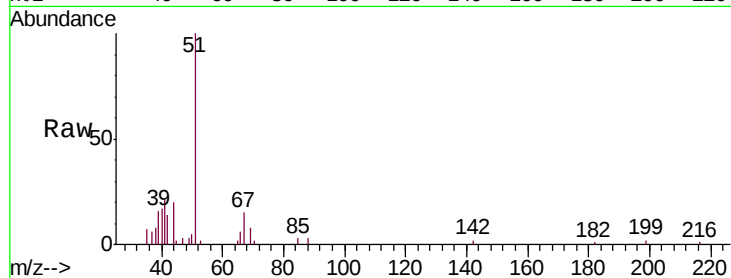
Q3-SVI-100518DL

Tgt Ion: 51 Resp: 20113

Ion Ratio Lower Upper

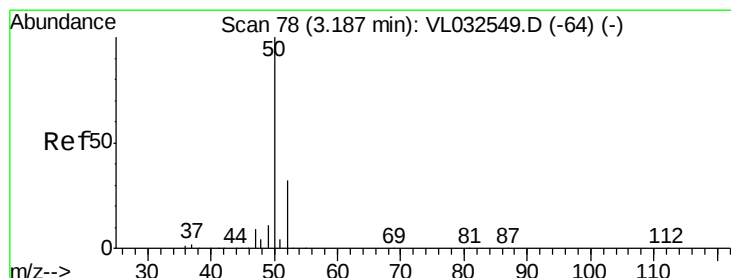
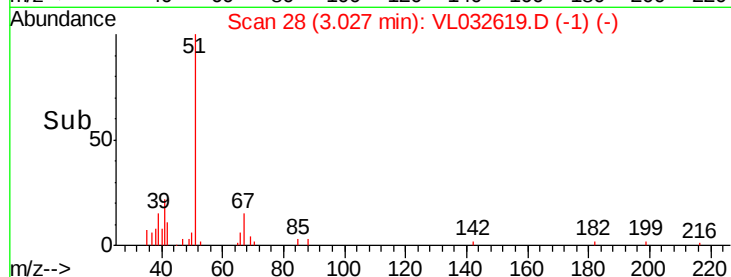
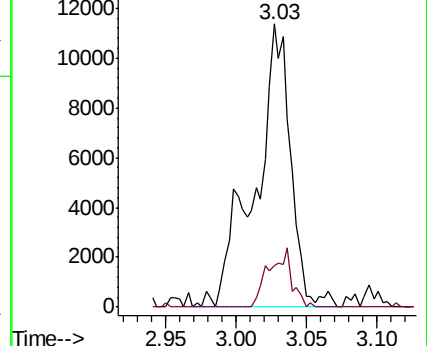
51 100

67 13.4 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.033 ppbv

RT: 3.19 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL032619.D

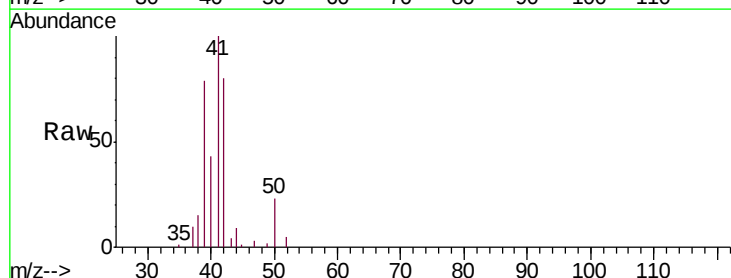
Acq: 12 Oct 2018 00:47

Tgt Ion: 50 Resp: 2274

Ion Ratio Lower Upper

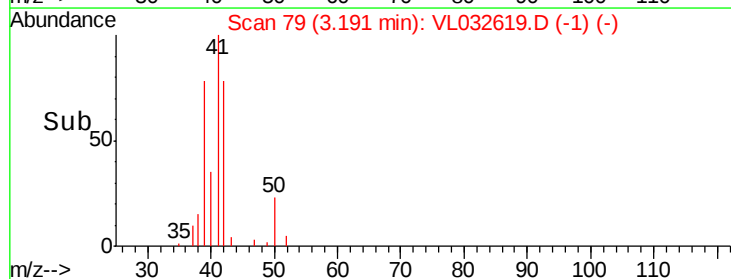
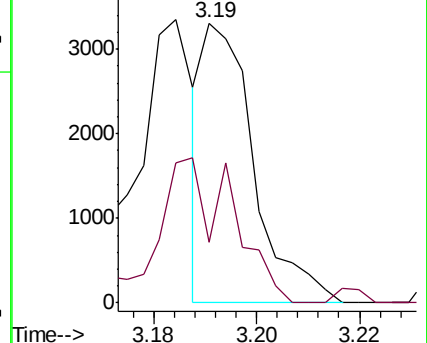
50 100

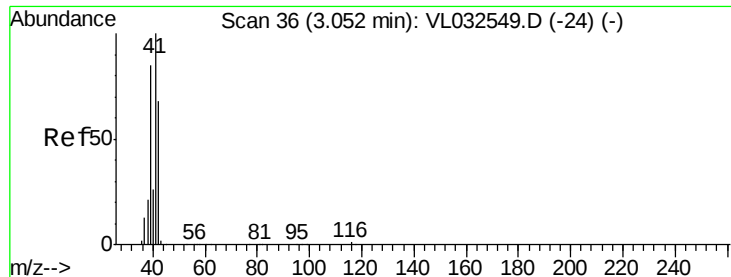
52 16.7 25.6 38.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 7.906 ppbv

RT: 3.05 min Scan# 35

Delta R.T. -0.02 min

Lab File: VL032619.D

Acq: 12 Oct 2018 00:47

Instrument :

MSVOA_L

ClientSampleId :

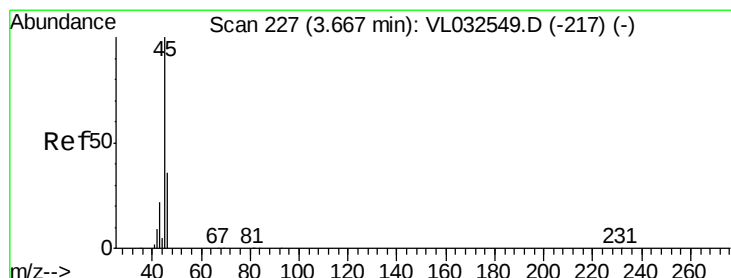
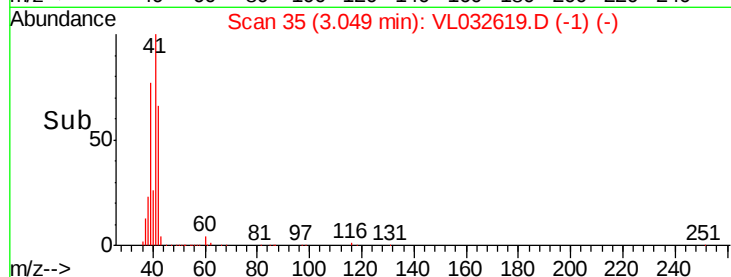
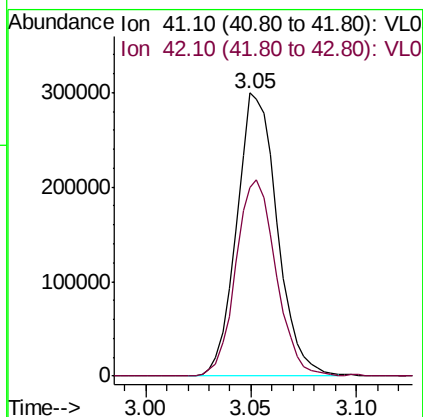
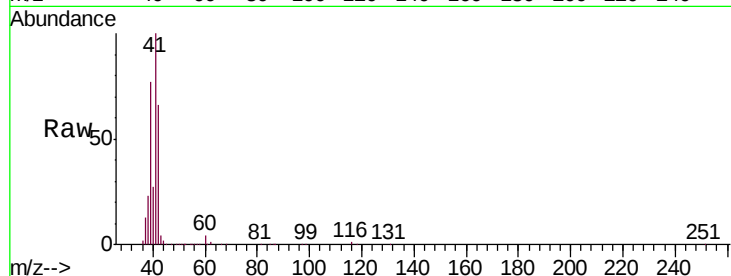
Q3-SVI-100518DL

Tgt Ion: 41 Resp: 400210

Ion Ratio Lower Upper

41 100

42 69.1 56.6 84.8



#13

Ethanol

Concen: 7.918 ppbv

RT: 3.67 min Scan# 228

Delta R.T. -0.01 min

Lab File: VL032619.D

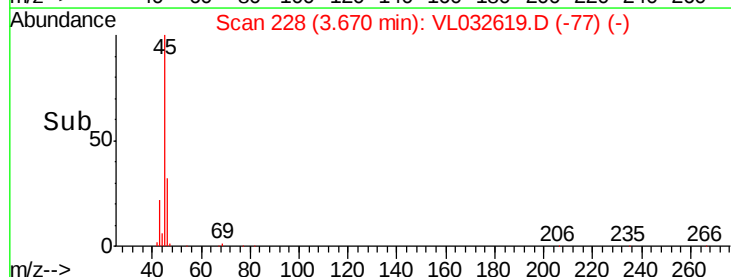
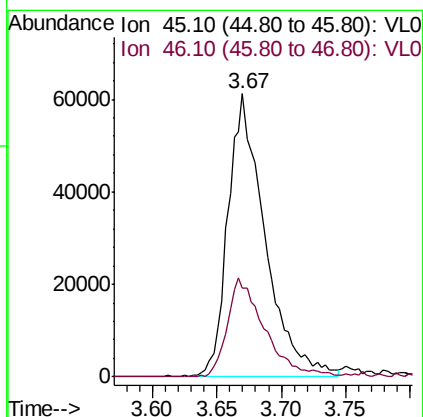
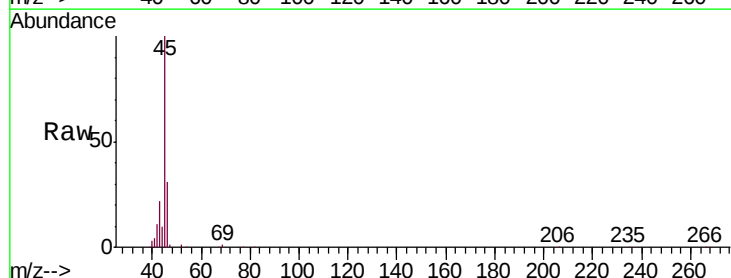
Acq: 12 Oct 2018 00:47

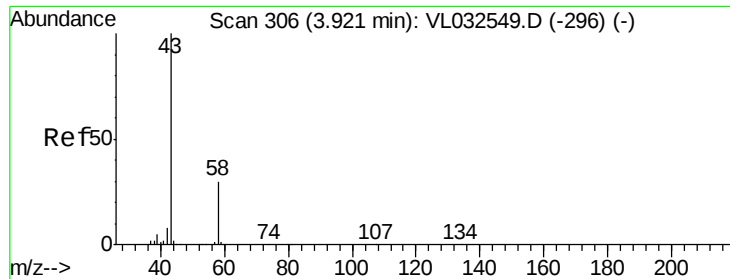
Tgt Ion: 45 Resp: 120476

Ion Ratio Lower Upper

45 100

46 36.2 14.2 56.8





#15

Acetone

Concen: 33.475 ppbv

RT: 3.91 min Scan# 304

Delta R.T. -0.02 min

Lab File: VL032619.D

Acq: 12 Oct 2018 00:47

Instrument :

MSVOA_L

ClientSampleId :

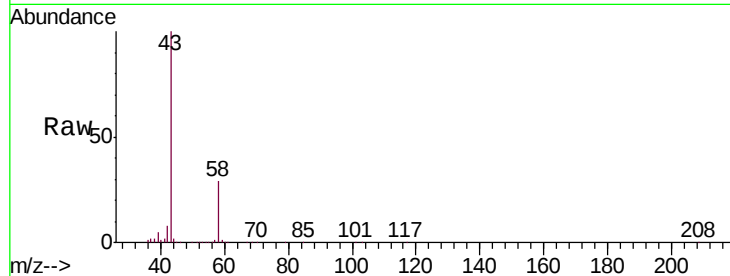
Q3-SVI-100518DL

Tgt Ion: 43 Resp: 4122449

Ion Ratio Lower Upper

43 100

58 30.9 22.6 33.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

2500000

2000000

1500000

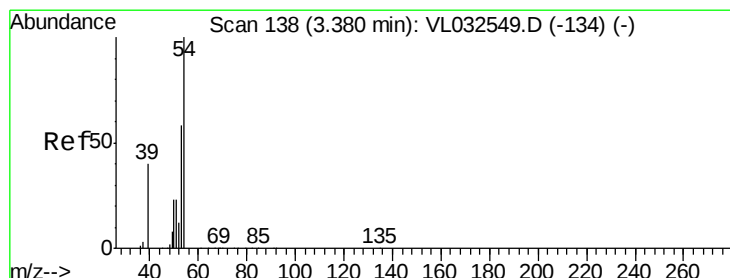
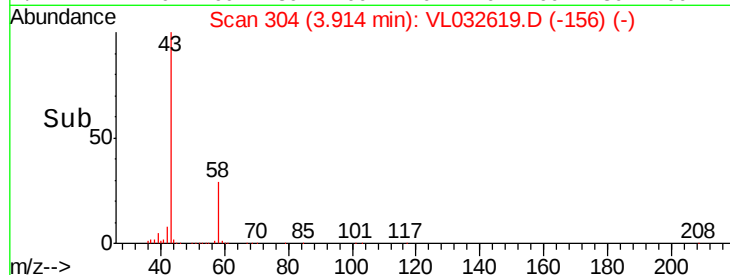
1000000

500000

0

Time-->

3.85 3.90 3.95 4.00



#16

1,3-Butadiene

Concen: 7.021 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.04 min

Lab File: VL032619.D

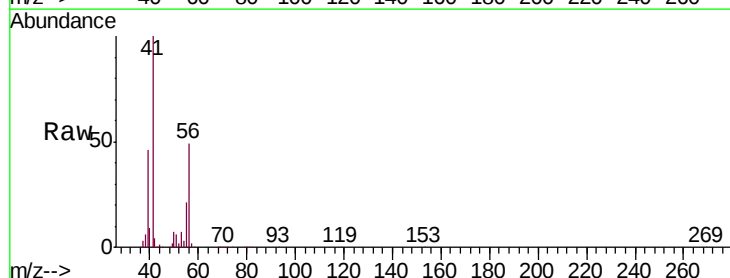
Acq: 12 Oct 2018 00:47

Tgt Ion: 39 Resp: 350674

Ion Ratio Lower Upper

39 100

54 6.9 80.8 121.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

300000

250000

200000

150000

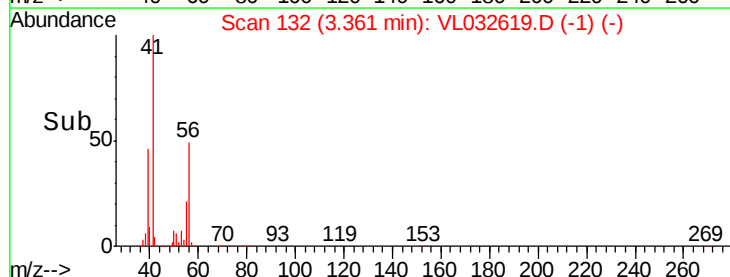
100000

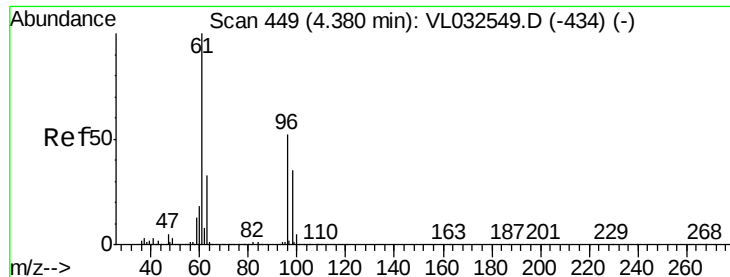
50000

0

Time-->

3.30 3.35 3.40



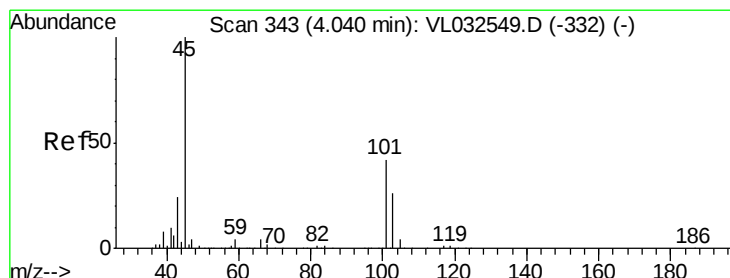
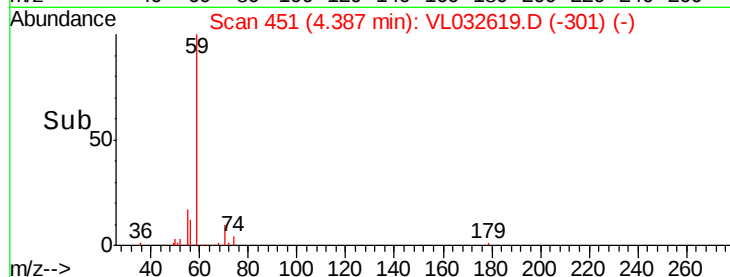
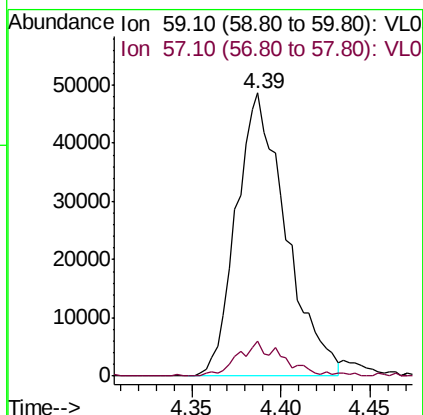
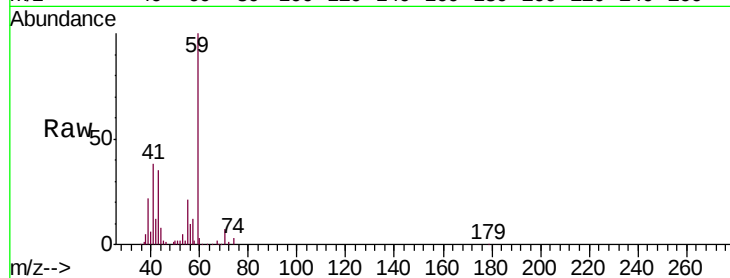


#17

tert-Butyl alcohol
Concen: 6.096 ppbv
RT: 4.39 min Scan# 451
Delta R.T. -0.02 min
Lab File: VL032619.D
Acq: 12 Oct 2018 00:47

Instrument :
MSVOA_L
ClientSampleId :
Q3-SVI-100518DL

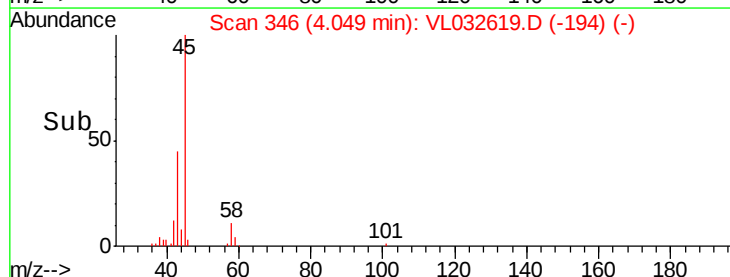
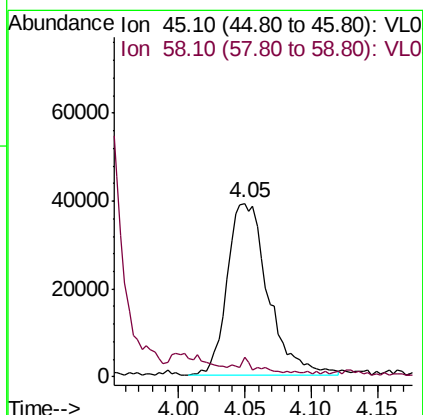
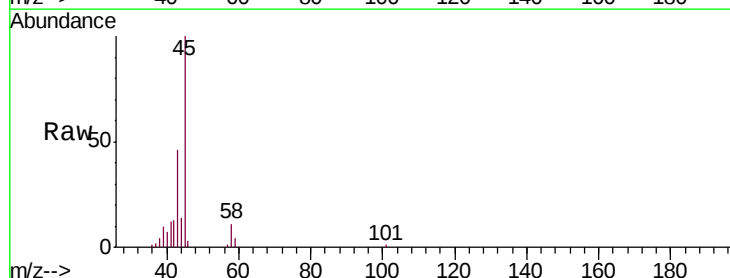
Tgt Ion: 59 Resp: 94338
Ion Ratio Lower Upper
59 100
57 11.5 0.0 0.0#

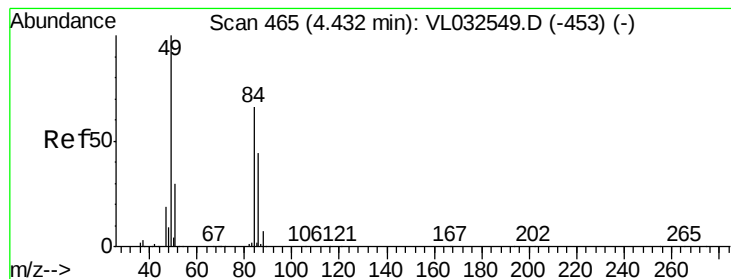


#19

Isopropyl Alcohol
Concen: 0.972 ppbv
RT: 4.05 min Scan# 346
Delta R.T. -0.01 min
Lab File: VL032619.D
Acq: 12 Oct 2018 00:47

Tgt Ion: 45 Resp: 83397
Ion Ratio Lower Upper
45 100
58 0.0 2.0 3.0#





#20

Methylene Chloride

Concen: 2.852 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.02 min

Lab File: VL032619.D

Acq: 12 Oct 2018 00:47

Instrument :

MSVOA_L

ClientSampleId :

Q3-SVI-100518DL

Tgt Ion: 84 Resp: 170072

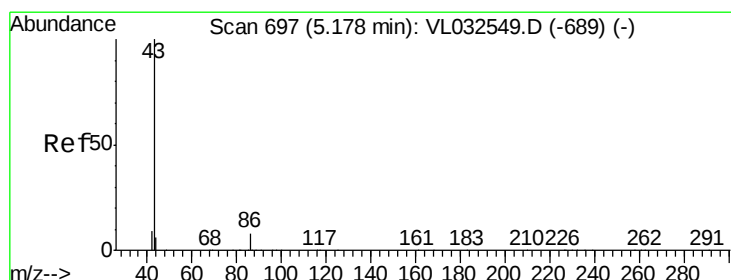
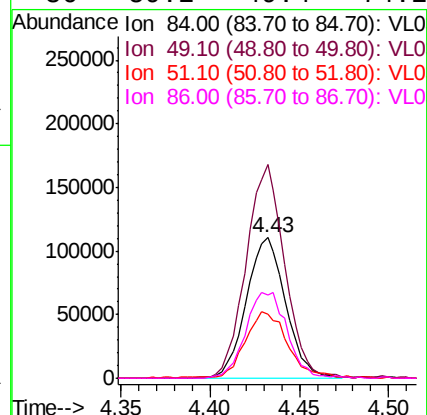
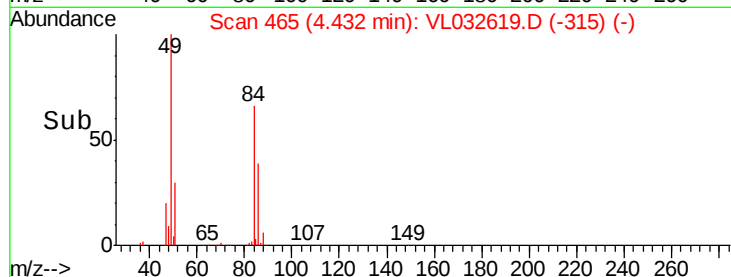
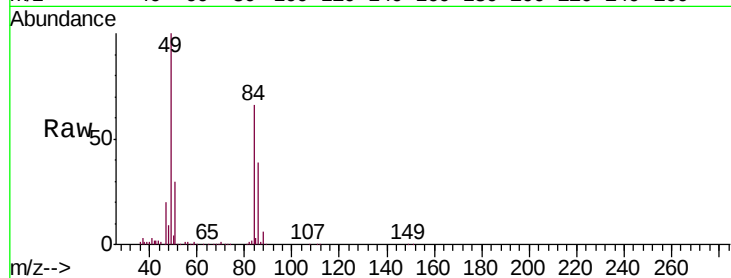
Ion Ratio Lower Upper

84 100

49 152.1 119.1 178.7

51 45.2 35.2 52.8

86 59.2 49.4 74.2



#23

Vinyl Acetate

Concen: 0.490 ppbv

RT: 5.17 min Scan# 694

Delta R.T. -0.03 min

Lab File: VL032619.D

Acq: 12 Oct 2018 00:47

Tgt Ion: 43 Resp: 106703

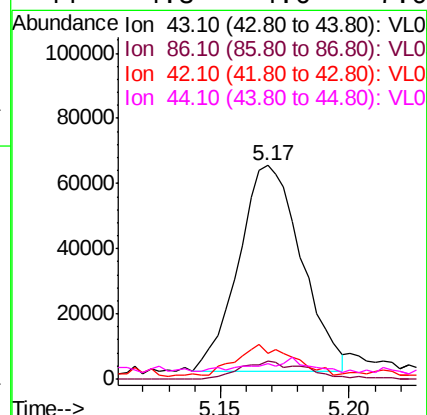
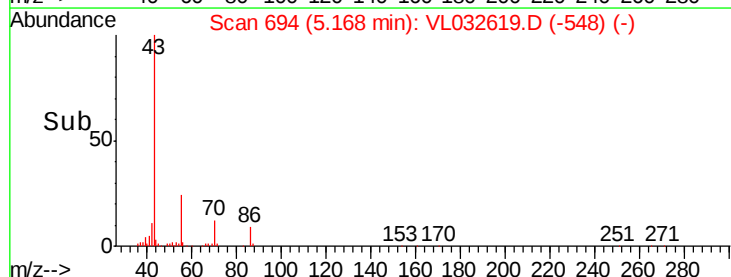
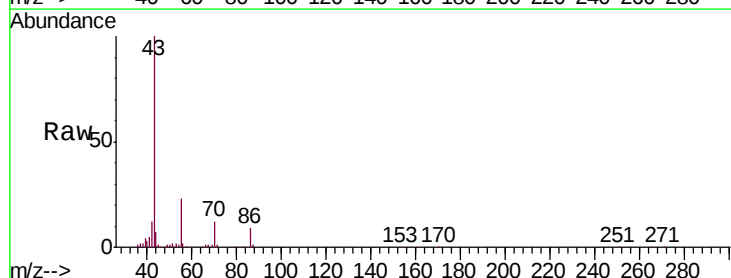
Ion Ratio Lower Upper

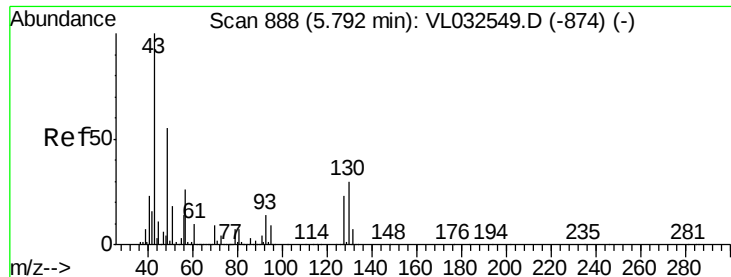
43 100

86 8.8 5.9 8.9

42 10.1 6.9 10.3

44 4.3 4.6 7.0#





#25

Ethyl Acetate

Concen: 0.134 ppbv

RT: 5.80 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL032619.D

Acq: 12 Oct 2018 00:47

Instrument :

MSVOA_L

ClientSampleId :

Q3-SVI-100518DL

Tgt Ion: 43 Resp: 40116

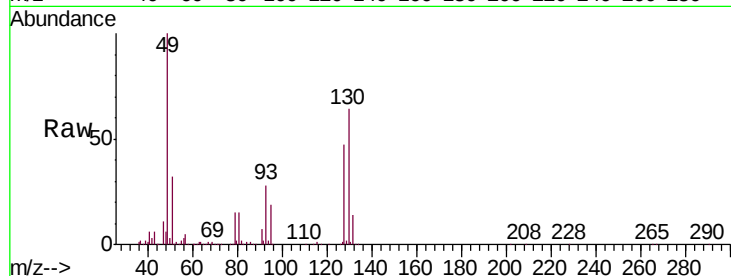
Ion Ratio Lower Upper

43 100

45 8.9 8.0 12.0

61 5.6 7.6 11.4#

70 7.4 5.8 8.8

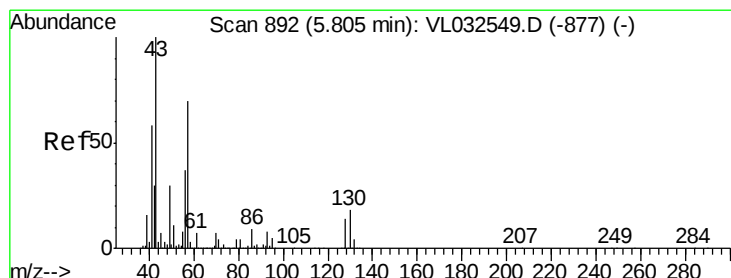
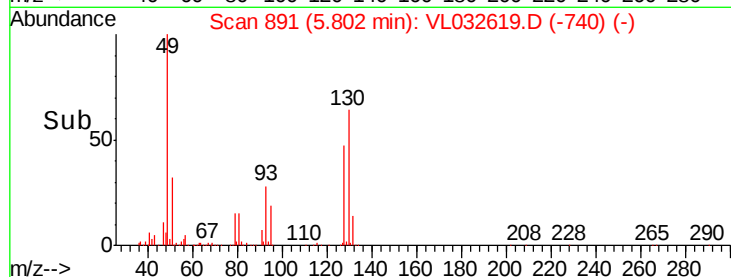
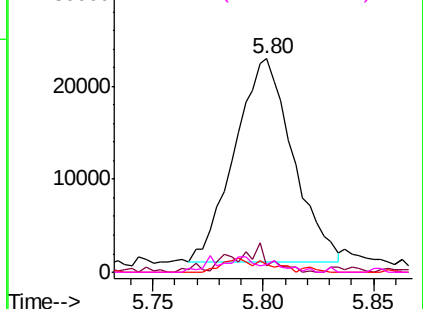


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.246 ppbv

RT: 5.80 min Scan# 892

Delta R.T. -0.02 min

Lab File: VL032619.D

Acq: 12 Oct 2018 00:47

Tgt Ion: 57 Resp: 33232

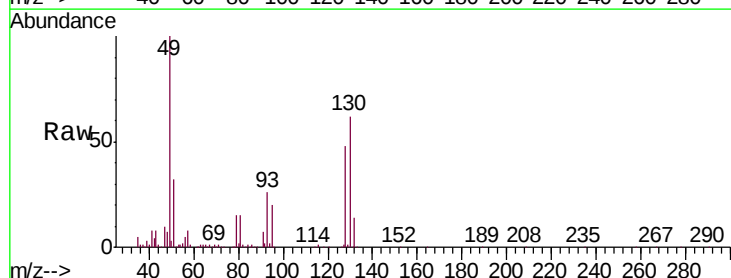
Ion Ratio Lower Upper

57 100

41 154.0 69.0 103.4#

43 0.0 172.1 258.1#

56 80.9 42.2 63.2#

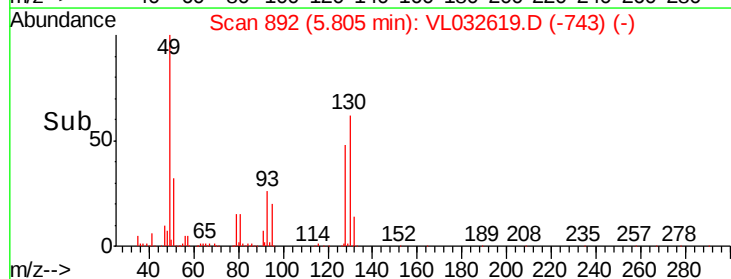
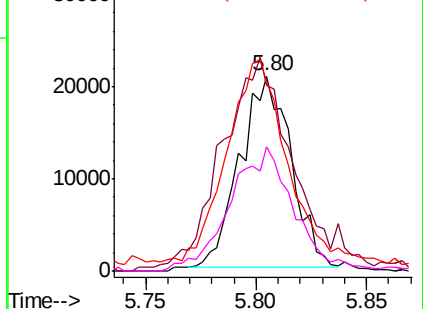


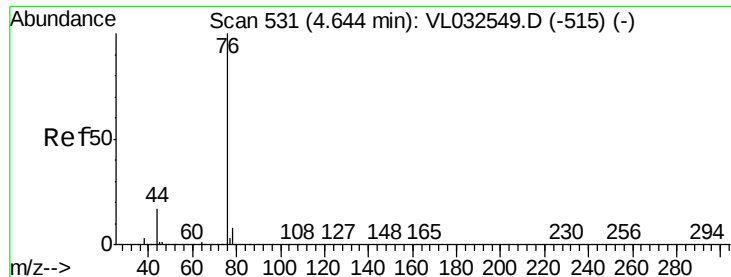
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.276 ppbv

RT: 4.64 min Scan# 531

Delta R.T. -0.02 min

Lab File: VL032619.D

Acq: 12 Oct 2018 00:47

Instrument :

MSVOA_L

ClientSampleId :

Q3-SVI-100518DL

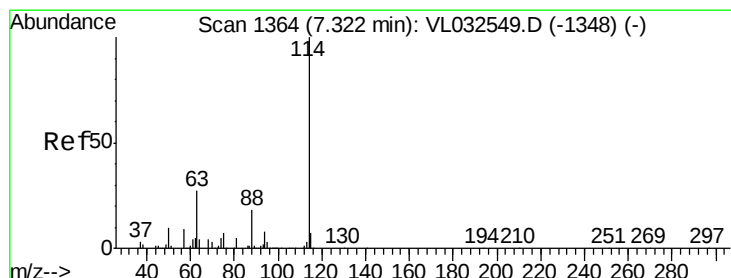
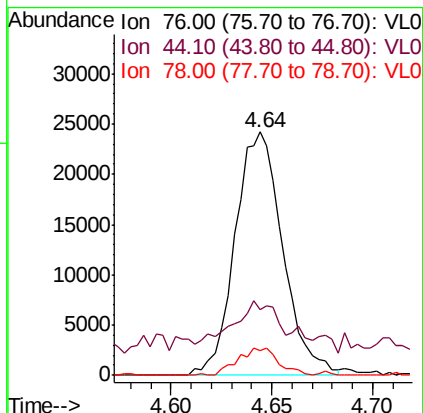
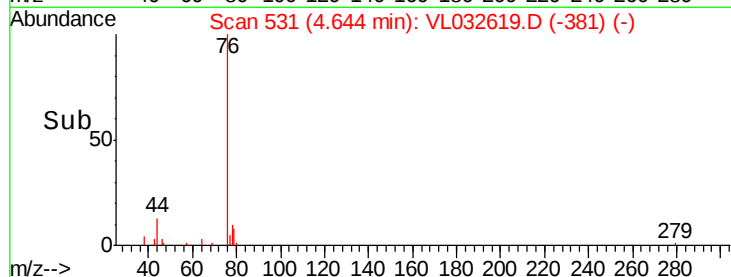
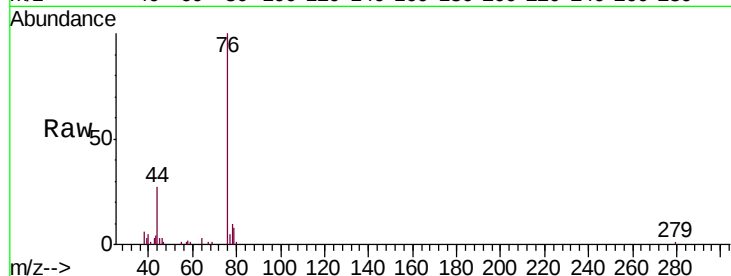
Tgt Ion: 76 Resp: 40062

Ion Ratio Lower Upper

76 100

44 31.5 14.0 21.0#

78 10.1 7.5 11.3



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1363

Delta R.T. -0.03 min

Lab File: VL032619.D

Acq: 12 Oct 2018 00:47

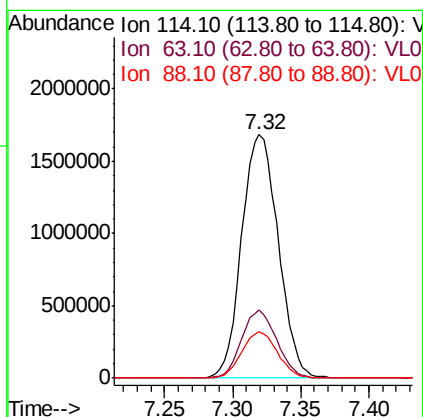
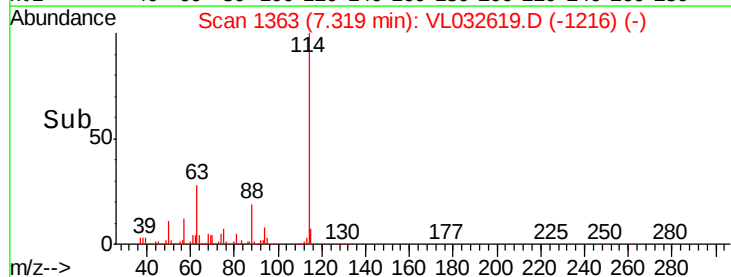
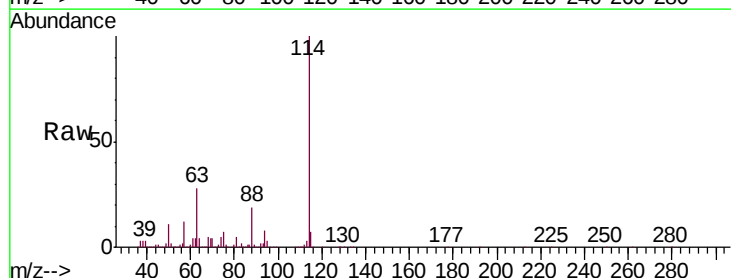
Tgt Ion: 114 Resp: 3135399

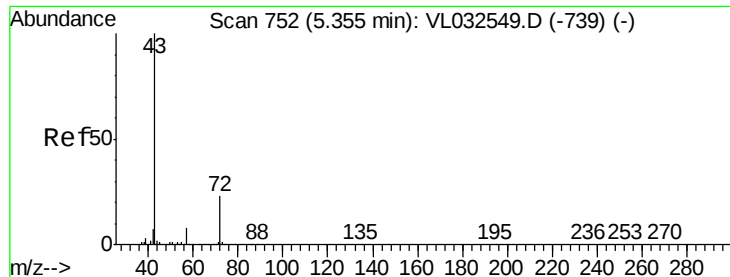
Ion Ratio Lower Upper

114 100

63 27.0 22.2 33.4

88 18.6 15.0 22.4

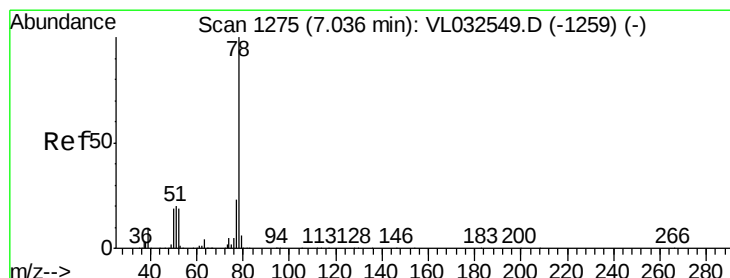
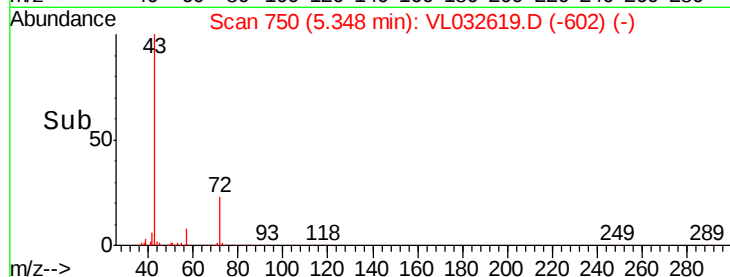
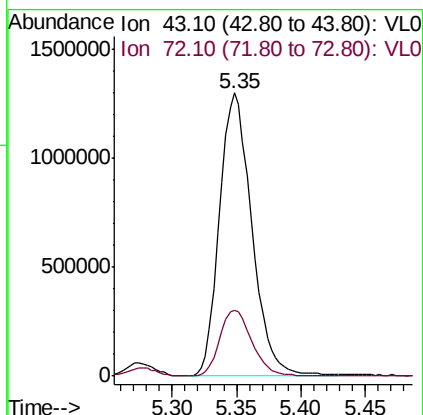
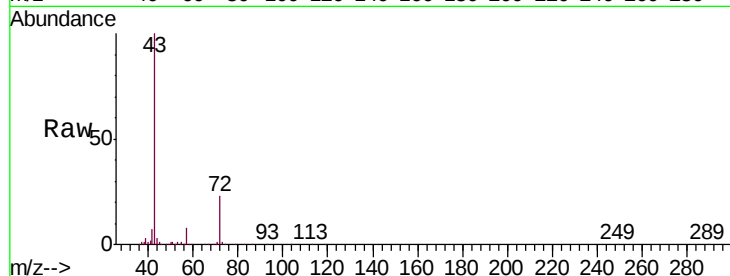




#34
 2-Butanone
 Concen: 12.068 ppbv
 RT: 5.35 min Scan# 750
 Delta R.T. -0.02 min
 Lab File: VL032619.D
 Acq: 12 Oct 2018 00:47

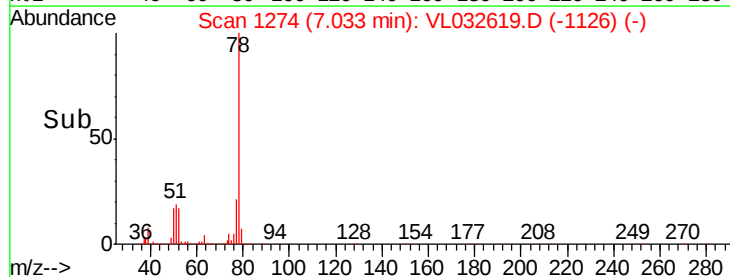
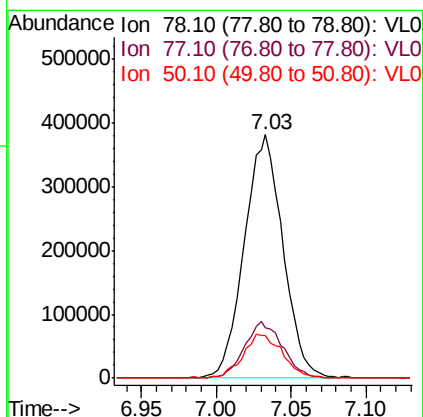
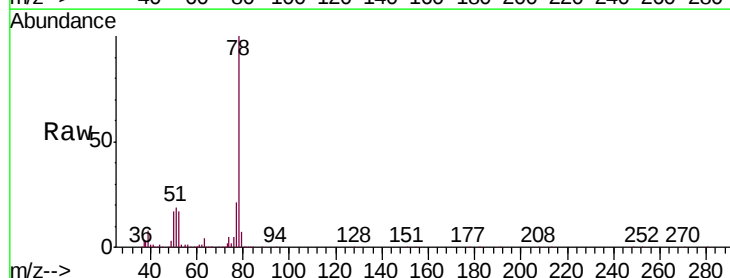
Instrument :
 MSVOA_L
 ClientSampleId :
 Q3-SVI-100518DL

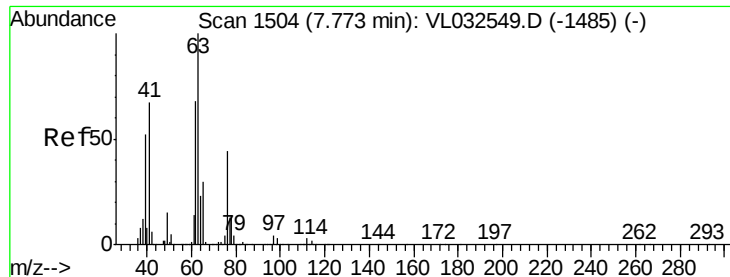
Tgt Ion: 43 Resp: 2253202
 Ion Ratio Lower Upper
 43 100
 72 23.3 17.8 26.6



#36
 Benzene
 Concen: 2.706 ppbv
 RT: 7.03 min Scan# 1274
 Delta R.T. -0.02 min
 Lab File: VL032619.D
 Acq: 12 Oct 2018 00:47

Tgt Ion: 78 Resp: 685565
 Ion Ratio Lower Upper
 78 100
 77 20.8 18.4 27.6
 50 17.4 14.4 21.6





#39

1,2-Dichloropropane

Concen: 7.348 ppbv

RT: 7.32 min Scan# 1363

Delta R.T. -0.47 min

Lab File: VL032619.D

Acq: 12 Oct 2018 00:47

Instrument :

MSVOA_L

ClientSampleId :

Q3-SVI-100518DL

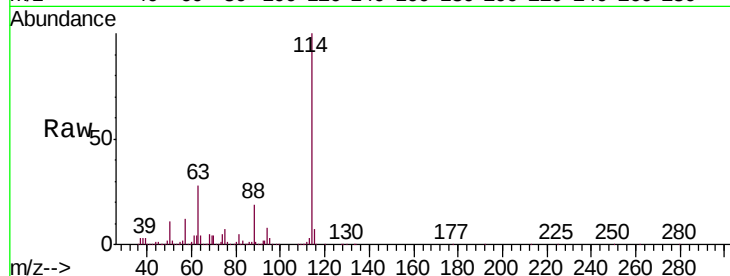
Tgt Ion: 63 Resp: 839088

Ion Ratio Lower Upper

63 100

41 0.3 55.4 83.0#

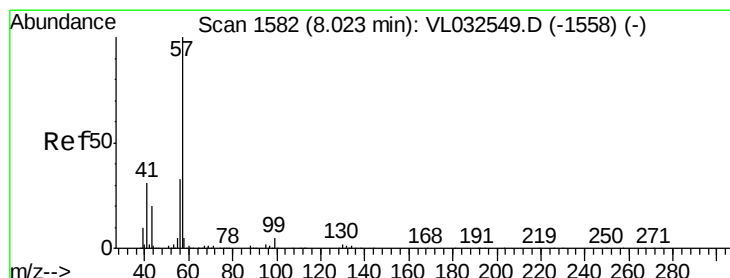
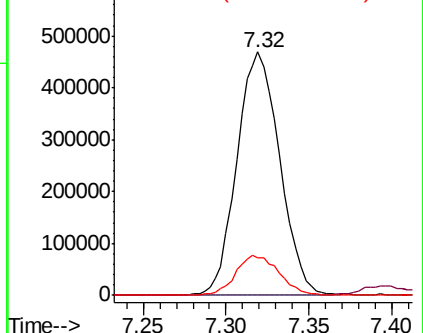
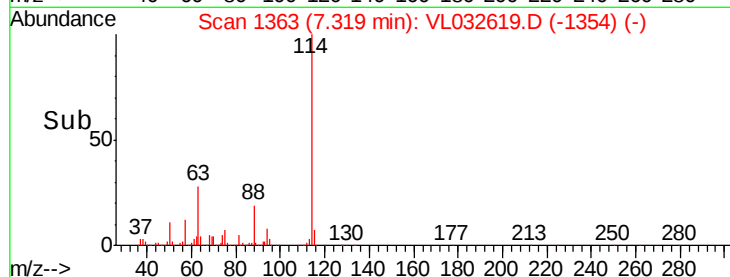
62 15.5 55.4 83.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.542 ppbv

RT: 7.65 min Scan# 1466

Delta R.T. -0.39 min

Lab File: VL032619.D

Acq: 12 Oct 2018 00:47

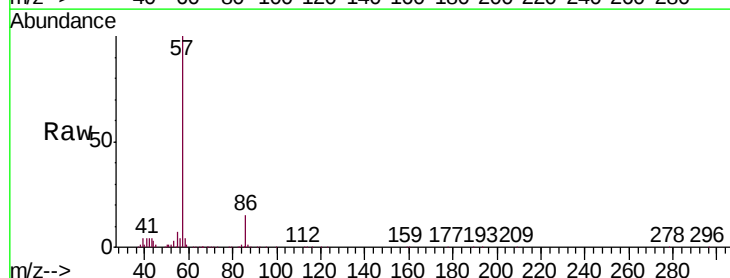
Tgt Ion: 57 Resp: 268435

Ion Ratio Lower Upper

57 100

41 11.9 24.4 36.6#

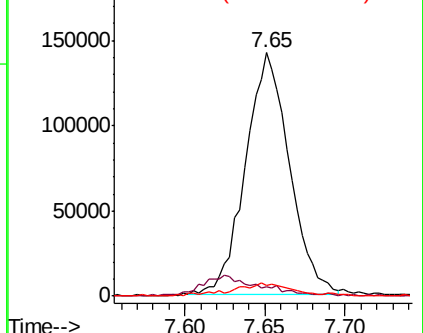
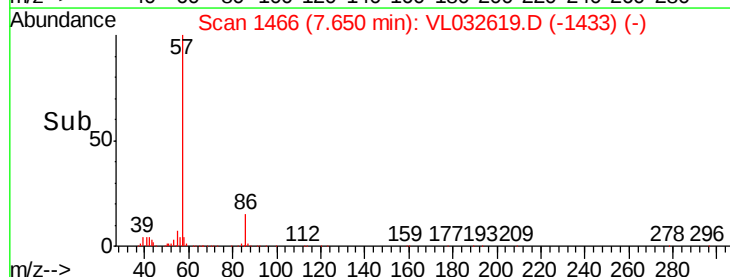
56 7.7 25.7 38.5#

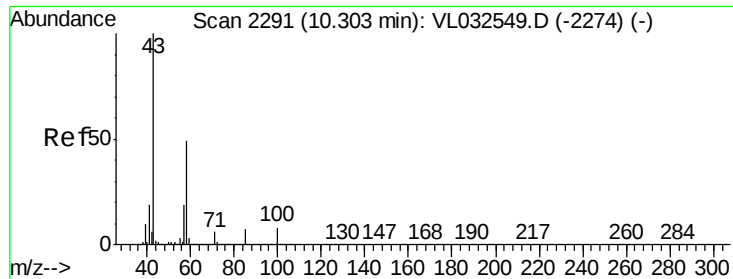


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

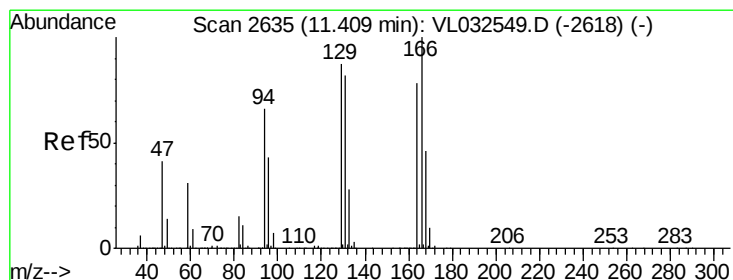
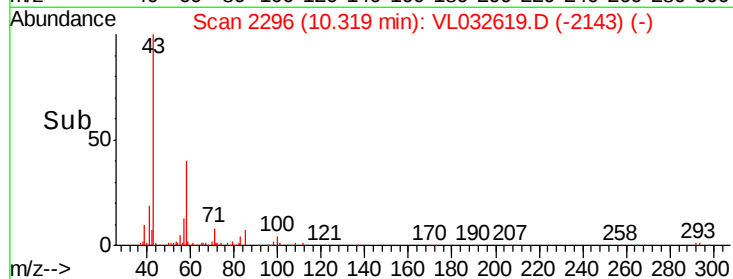
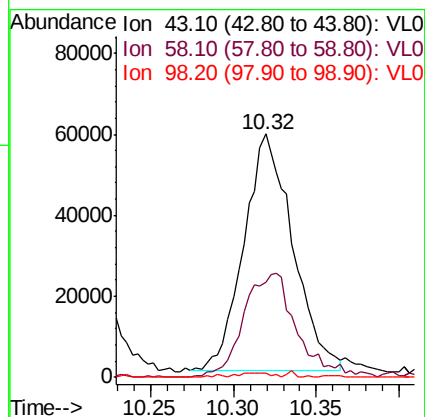
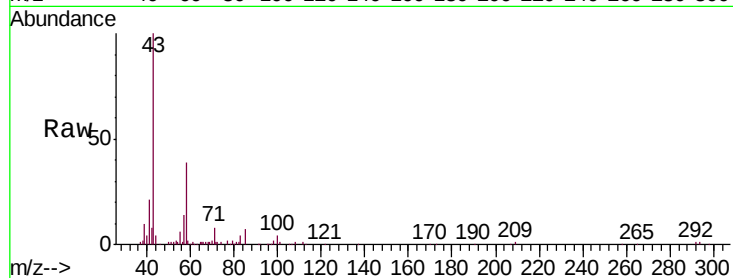




#51
2-Hexanone
Concen: 0.492 ppbv
RT: 10.32 min Scan# 2296
Delta R.T. -0.01 min
Lab File: VL032619.D
Acq: 12 Oct 2018 00:47

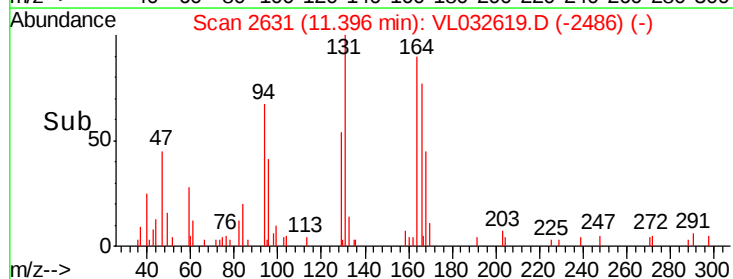
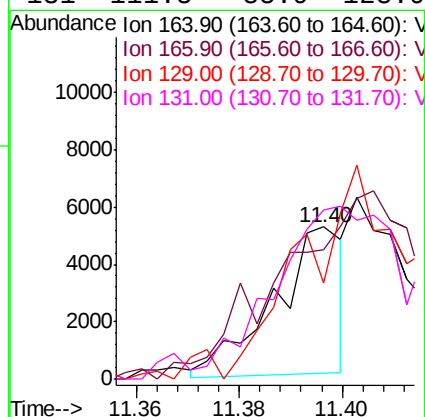
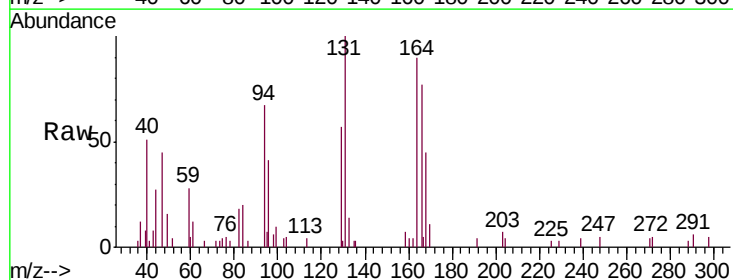
Instrument :
MSVOA_L
ClientSampleId :
Q3-SVI-100518DL

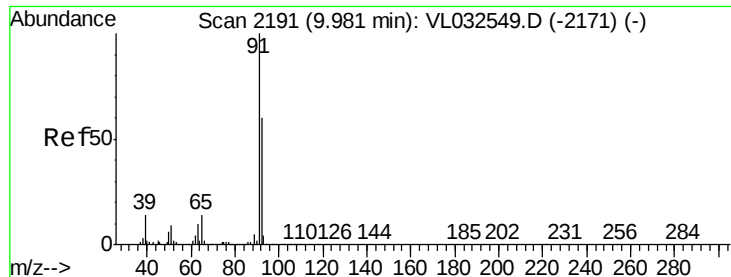
Tgt Ion: 43 Resp: 119519
Ion Ratio Lower Upper
43 100
58 49.3 39.2 58.8
98 2.4 0.4 0.6#



#52
Tetrachloroethene
Concen: 0.054 ppbv
RT: 11.40 min Scan# 2631
Delta R.T. -0.03 min
Lab File: VL032619.D
Acq: 12 Oct 2018 00:47

Tgt Ion: 164 Resp: 4738
Ion Ratio Lower Upper
164 100
166 85.1 100.6 150.8#
129 52.0 89.9 134.9#
131 111.5 85.9 128.9





#53

Toluene

Concen: 0.296 ppbv

RT: 9.98 min Scan# 2189

Delta R.T. -0.03 min

Lab File: VL032619.D

Acq: 12 Oct 2018 00:47

Instrument :

MSVOA_L

ClientSampleId :

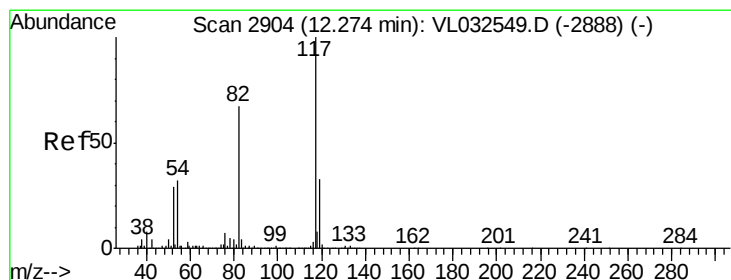
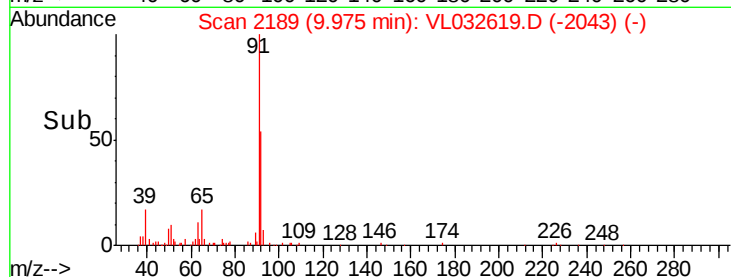
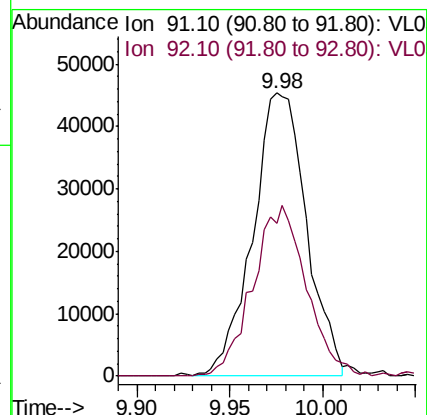
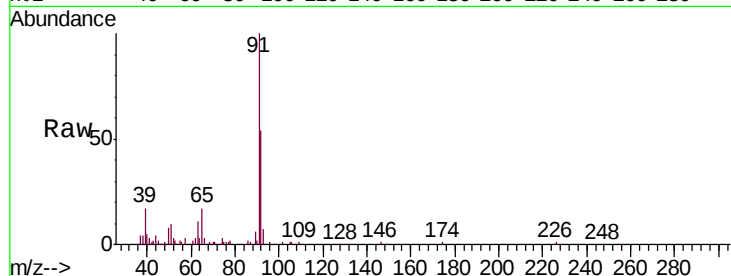
Q3-SVI-100518DL

Tgt Ion: 91 Resp: 91368

Ion Ratio Lower Upper

91 100

92 60.3 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2903

Delta R.T. -0.03 min

Lab File: VL032619.D

Acq: 12 Oct 2018 00:47

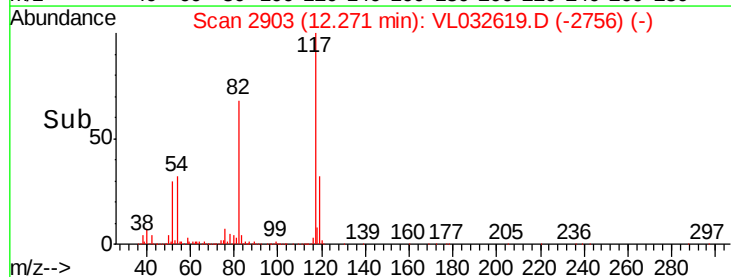
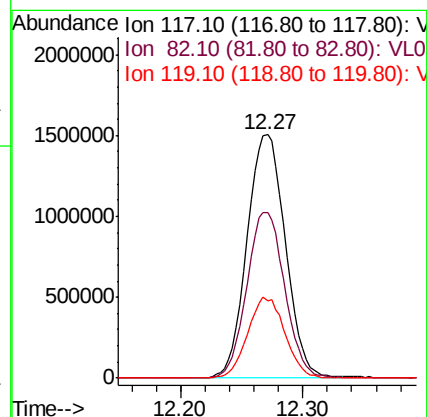
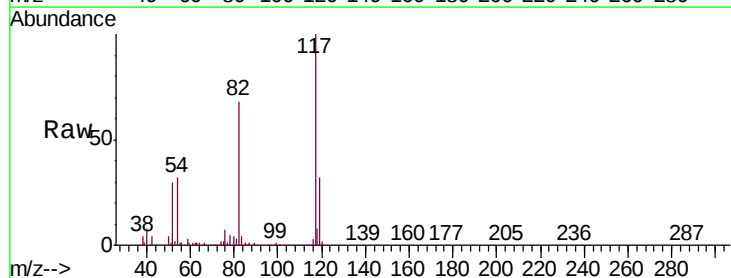
Tgt Ion: 117 Resp: 3265973

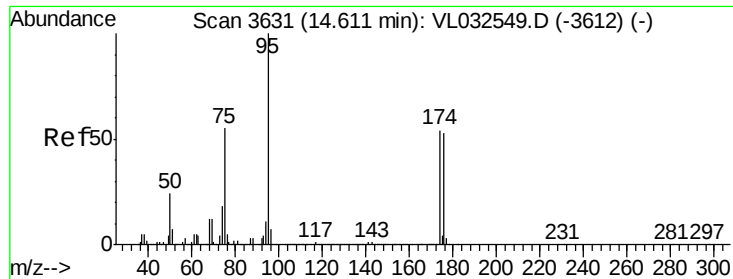
Ion Ratio Lower Upper

117 100

82 67.9 53.0 79.6

119 32.4 45.9 68.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.579 ppbv

RT: 14.61 min Scan# 3630

Delta R.T. -0.03 min

Lab File: VL032619.D

Acq: 12 Oct 2018 00:47

Instrument :

MSVOA_L

ClientSampleId :

Q3-SVI-100518DL

Tgt Ion: 95 Resp: 2359255

Ion Ratio Lower Upper

95 100

174 57.6 46.3 69.5

175 4.2 3.4 5.0

