

Data File : VL032932.D
Acq On : 7 Dec 2018 13:13
Operator : SY/AP
Sample : J6176-02DL2 100X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
MMSV-05DL2

Quant Time: Dec 08 01:58:55 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1247629	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3313061	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3111131	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2337221	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

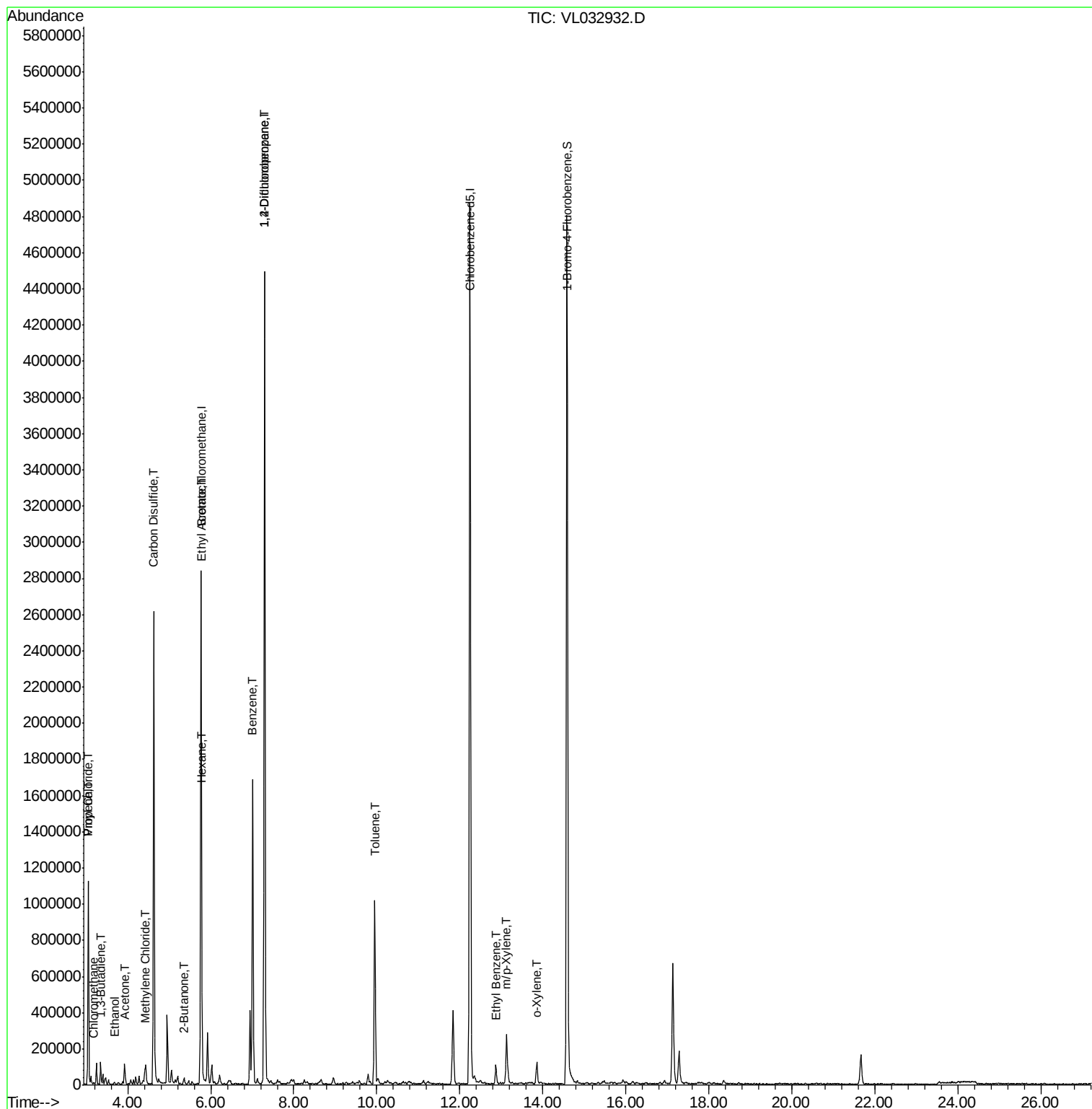
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.17	50	5356	0.097	ppbv	93
5) Vinyl Chloride	3.05	62	55313	0.988	ppbv #	46
9) Propene	3.04	41	91504	2.449	ppbv	95
13) Ethanol	3.67	45	10384	0.807	ppbv	89
15) Acetone	3.92	43	87113	0.813	ppbv	97
16) 1,3-Butadiene	3.35	39	33212	0.782	ppbv #	18
20) Methylene Chloride	4.42	84	26915	0.514	ppbv #	94
25) Ethyl Acetate	5.78	43	12090	0.048	ppbv #	84
26) Hexane	5.79	57	29058	0.249	ppbv #	42
27) Carbon Disulfide	4.62	76	2990570	20.479	ppbv	100
34) 2-Butanone	5.36	43	37076	0.257	ppbv	99
36) Benzene	7.01	78	1346445	5.525	ppbv	99
39) 1,2-Dichloropropane	7.29	63	787774	8.524	ppbv #	20
53) Toluene	9.95	91	777425	3.008	ppbv	99
58) Ethyl Benzene	12.87	91	77835	0.235	ppbv	98
59) m/p-Xylene	13.13	91	227160	0.755	ppbv #	100
60) o-Xylene	13.86	91	90373	0.297	ppbv	97

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

MMSV-05DL2

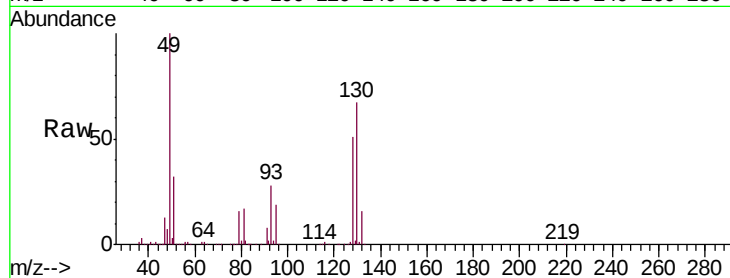
Tgt Ion: 49 Resp: 1247629

Ion Ratio Lower Upper

49 100

128 52.3 26.3 78.8

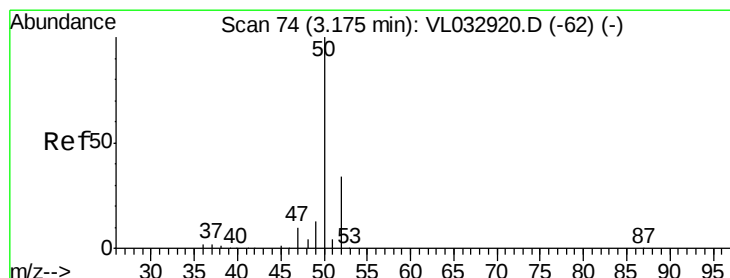
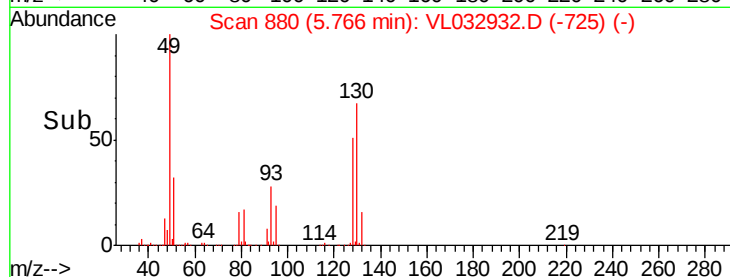
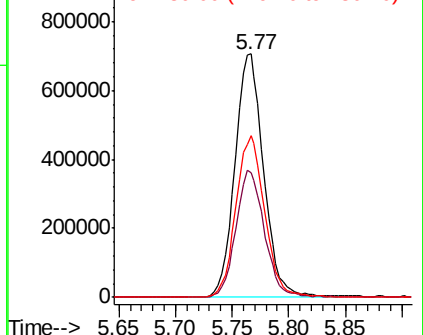
130 67.6 33.9 101.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#4

Chloromethane

Concen: 0.097 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL032932.D

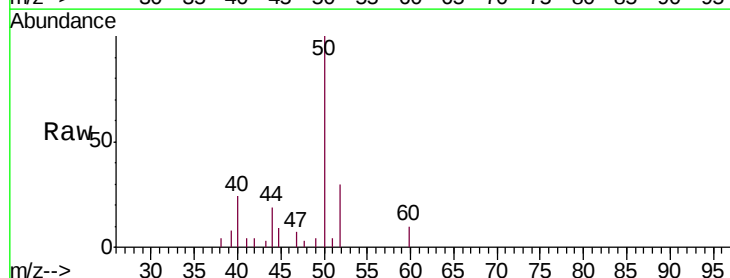
Acq: 7 Dec 2018 13:13

Tgt Ion: 50 Resp: 5356

Ion Ratio Lower Upper

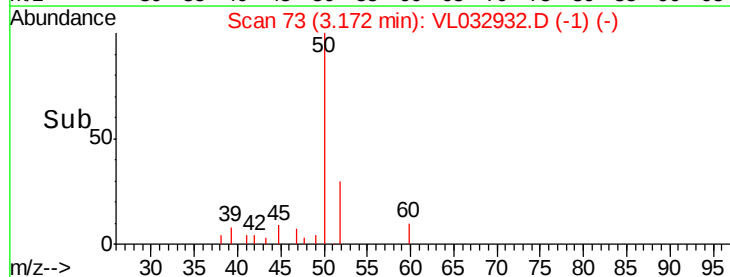
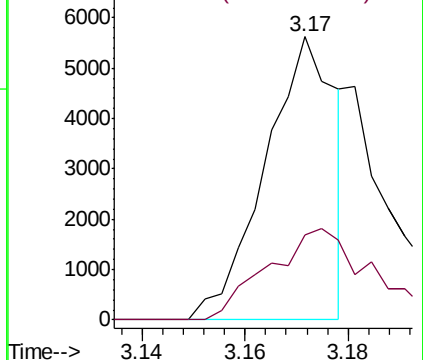
50 100

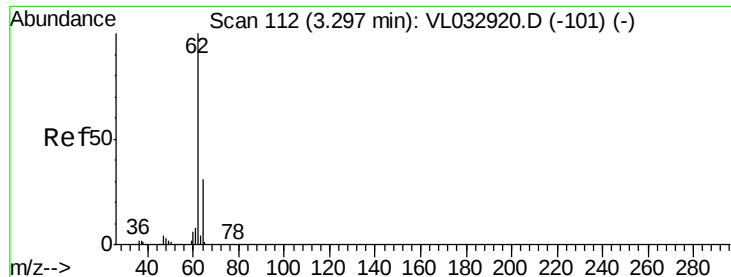
52 30.1 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.988 ppbv

RT: 3.05 min Scan# 35

Delta R.T. -0.25 min

Lab File: VL032932.D

Acq: 7 Dec 2018 13:13

Instrument :

MSVOA_L

ClientSampleId :

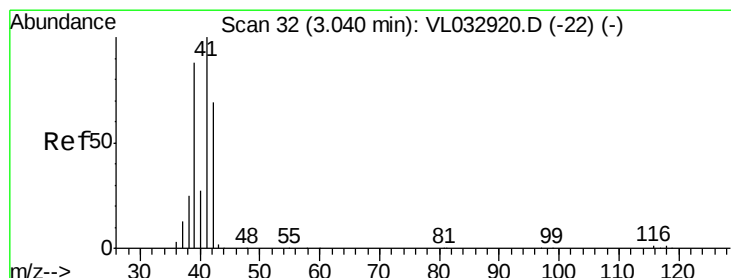
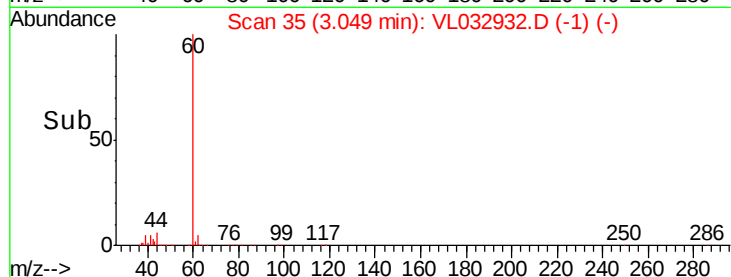
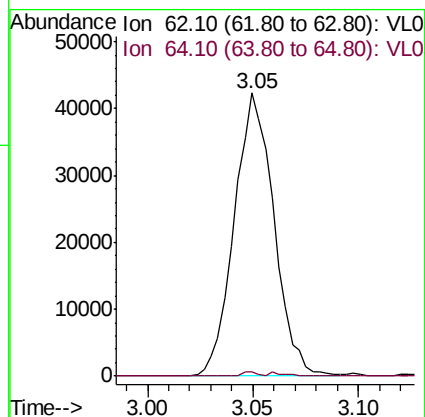
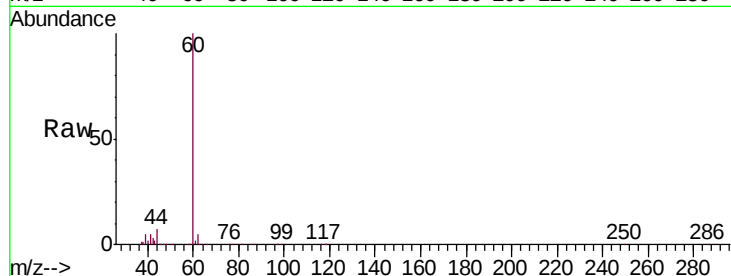
MMSV-05DL2

Tgt Ion: 62 Resp: 55313

Ion Ratio Lower Upper

62 100

64 1.4 24.8 37.2#



#9

Propene

Concen: 2.449 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL032932.D

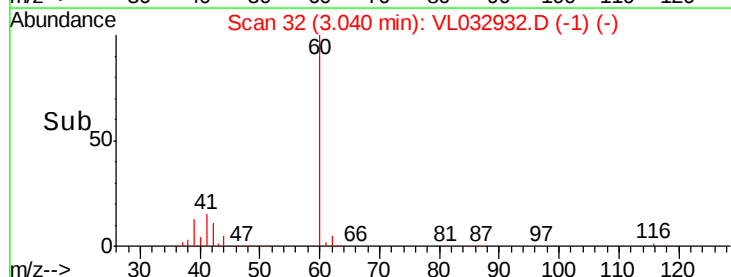
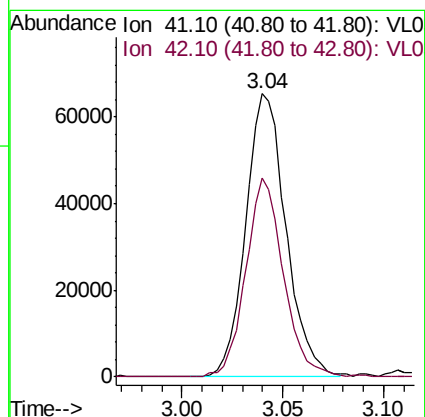
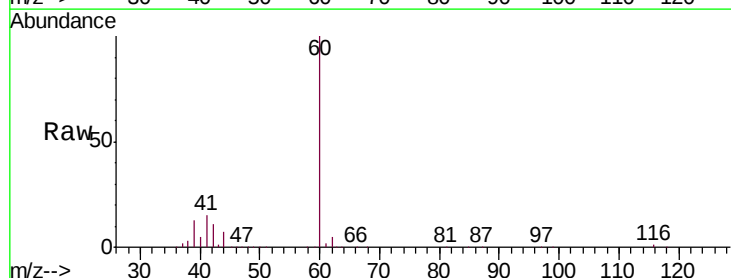
Acq: 7 Dec 2018 13:13

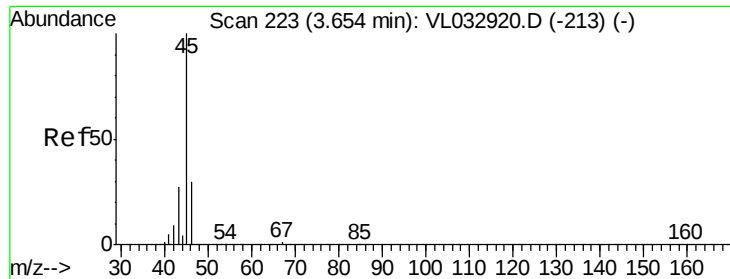
Tgt Ion: 41 Resp: 91504

Ion Ratio Lower Upper

41 100

42 66.1 56.2 84.2





#13

Ethanol

Concen: 0.807 ppbv

RT: 3.67 min Scan# 228

Delta R.T. 0.02 min

Lab File: VL032932.D

Acq: 7 Dec 2018 13:13

Instrument :

MSVOA_L

ClientSampleId :

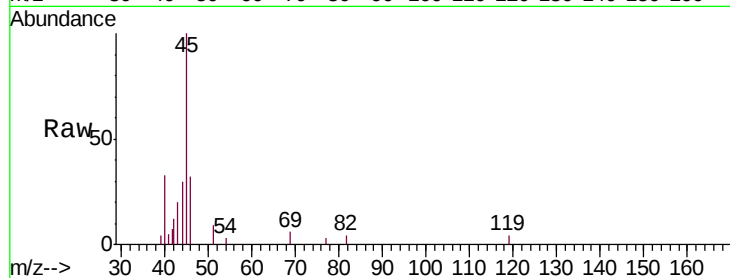
MMSV-05DL2

Tgt Ion: 45 Resp: 10384

Ion Ratio Lower Upper

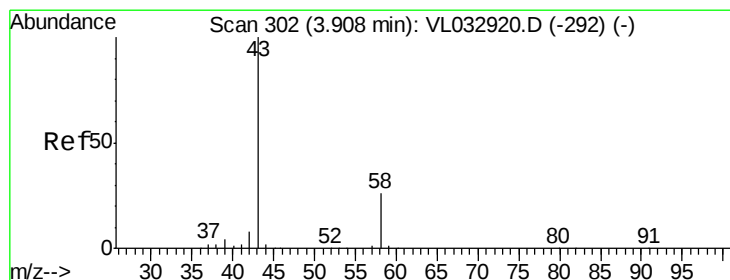
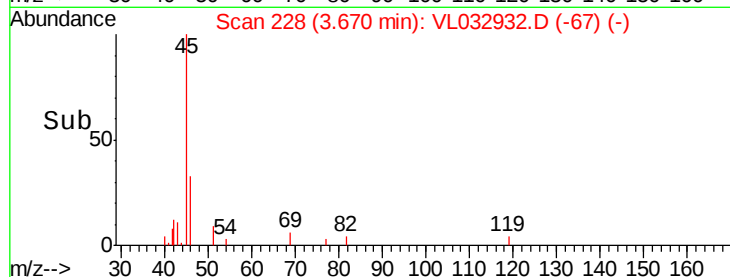
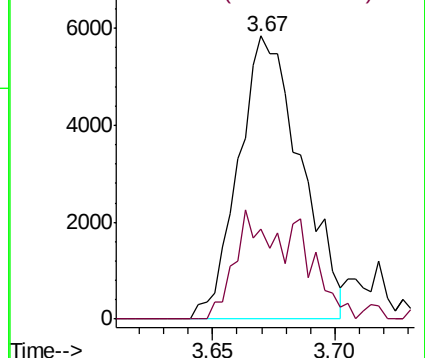
45 100

46 40.7 13.8 55.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 0.813 ppbv

RT: 3.92 min Scan# 307

Delta R.T. 0.02 min

Lab File: VL032932.D

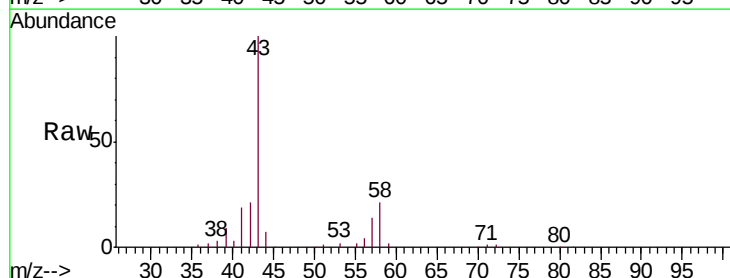
Acq: 7 Dec 2018 13:13

Tgt Ion: 43 Resp: 87113

Ion Ratio Lower Upper

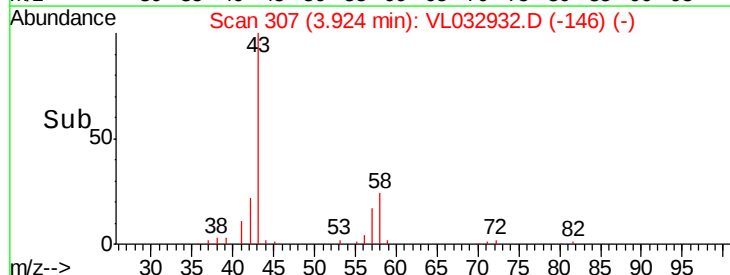
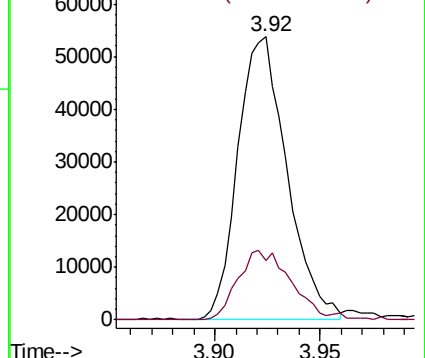
43 100

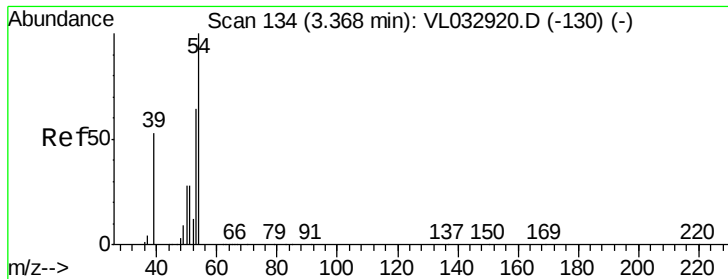
58 27.3 20.6 30.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

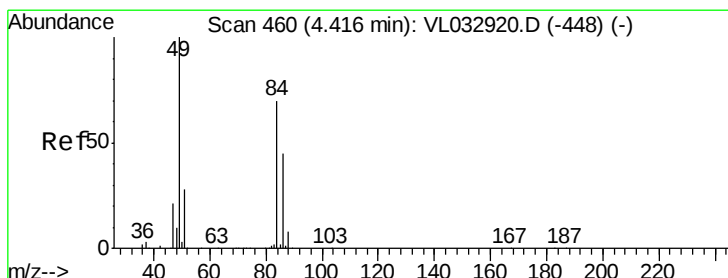
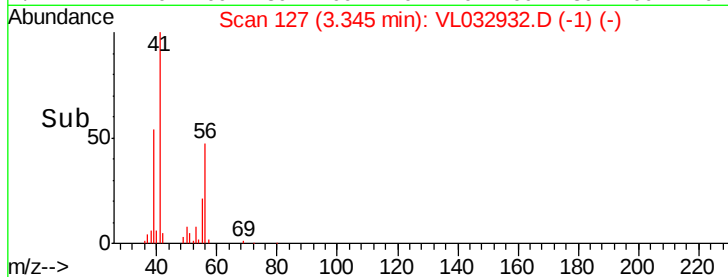
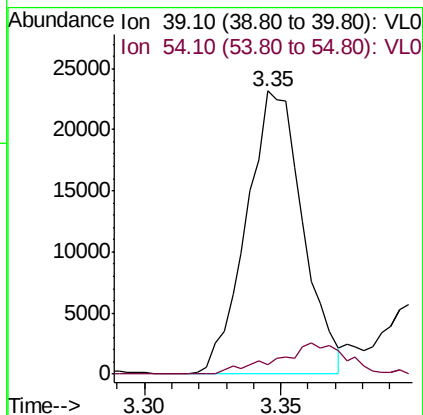
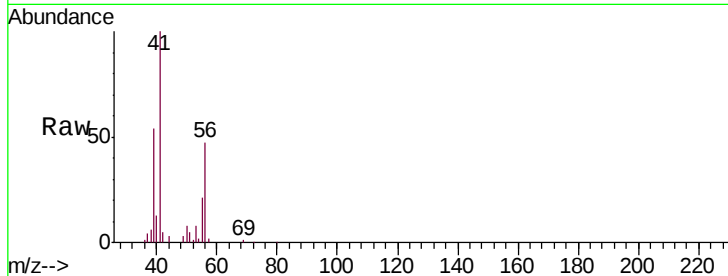




#16
 1,3-Butadiene
 Concen: 0.782 ppbv
 RT: 3.35 min Scan# 127
 Delta R.T. -0.02 min
 Lab File: VL032932.D
 Acq: 7 Dec 2018 13:13

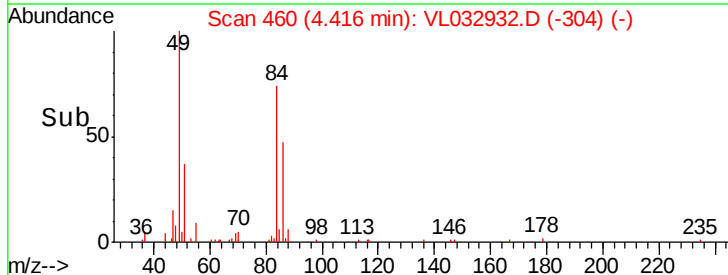
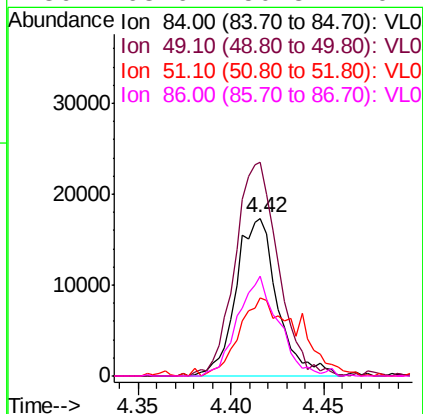
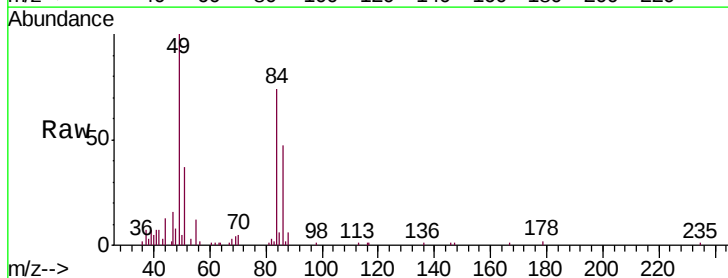
Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-05DL2

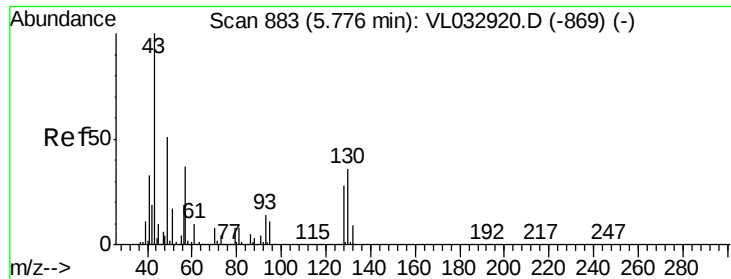
Tgt Ion: 39 Resp: 33212
 Ion Ratio Lower Upper
 39 100
 54 13.6 72.7 109.1#



#20
 Methylene Chloride
 Concen: 0.514 ppbv
 RT: 4.42 min Scan# 460
 Delta R.T. 0.00 min
 Lab File: VL032932.D
 Acq: 7 Dec 2018 13:13

Tgt Ion: 84 Resp: 26915
 Ion Ratio Lower Upper
 84 100
 49 135.2 113.8 170.8
 51 49.4 31.8 47.8#
 86 63.6 50.8 76.2





#25

Ethyl Acetate

Concen: 0.048 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL032932.D

Acq: 7 Dec 2018 13:13

Instrument :

MSVOA_L

ClientSampleId :

MMSV-05DL2

Tgt Ion: 43 Resp: 12090

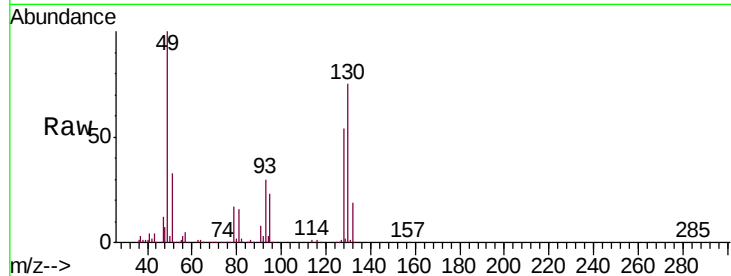
Ion Ratio Lower Upper

43 100

45 7.2 7.8 11.6#

61 1.5 7.4 11.2#

70 0.0 5.7 8.5#

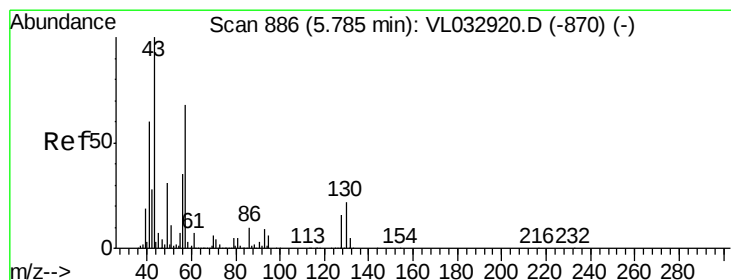
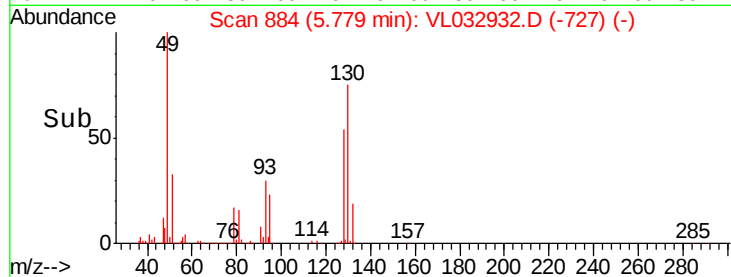
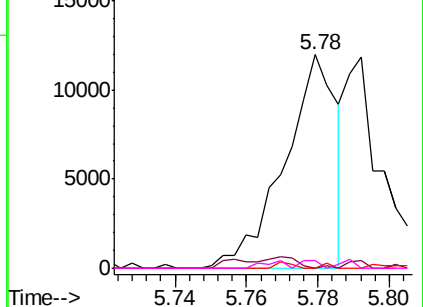


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.249 ppbv

RT: 5.79 min Scan# 887

Delta R.T. 0.00 min

Lab File: VL032932.D

Acq: 7 Dec 2018 13:13

Tgt Ion: 57 Resp: 29058

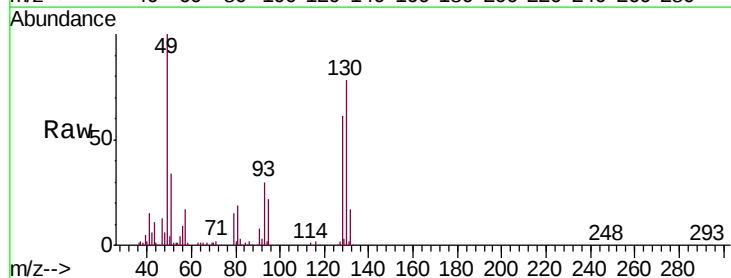
Ion Ratio Lower Upper

57 100

41 101.0 72.2 108.2

43 73.7 171.9 257.9#

56 60.5 42.2 63.2

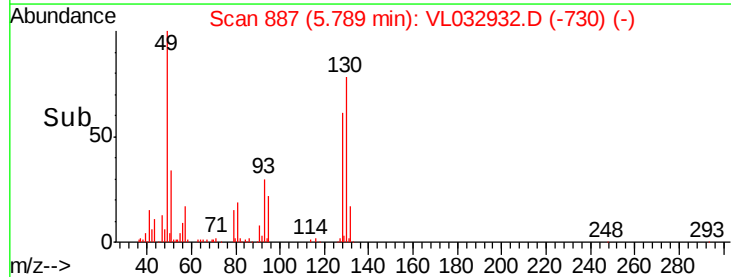
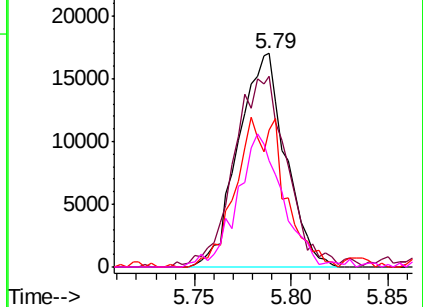


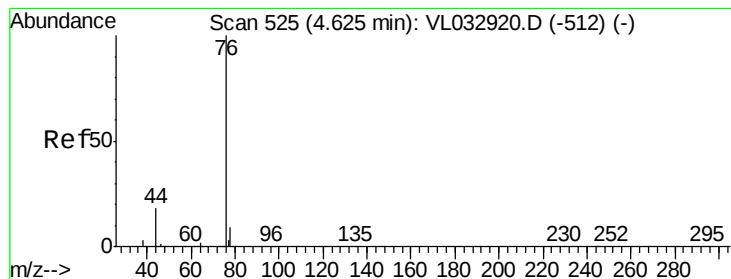
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 20.479 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL032932.D

Acq: 7 Dec 2018 13:13

Instrument :

MSVOA_L

ClientSampleId :

MMSV-05DL2

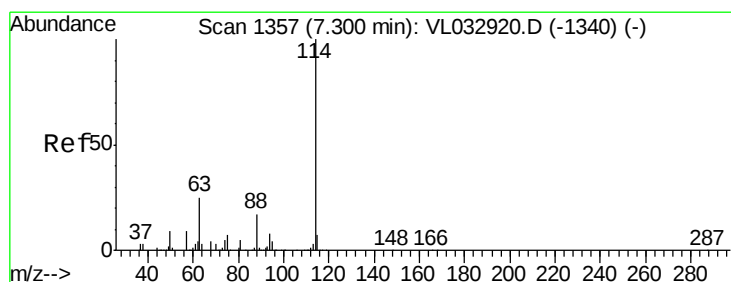
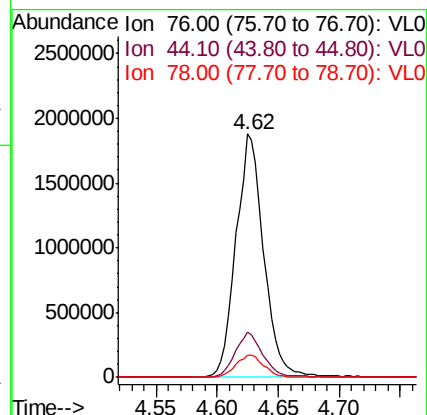
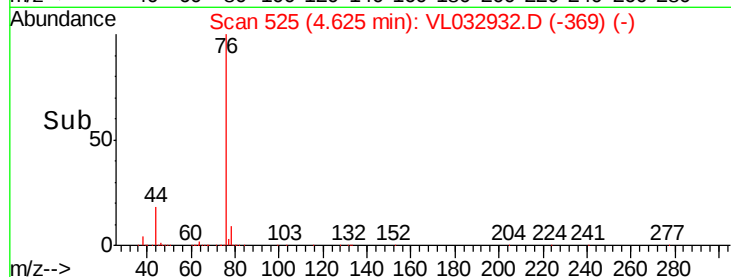
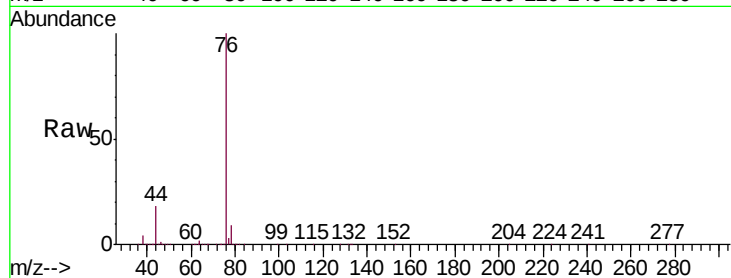
Tgt Ion: 76 Resp: 2990570

Ion Ratio Lower Upper

76 100

44 18.3 14.7 22.1

78 9.2 7.4 11.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.01 min

Lab File: VL032932.D

Acq: 7 Dec 2018 13:13

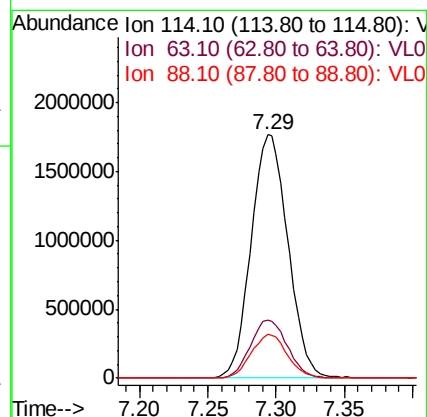
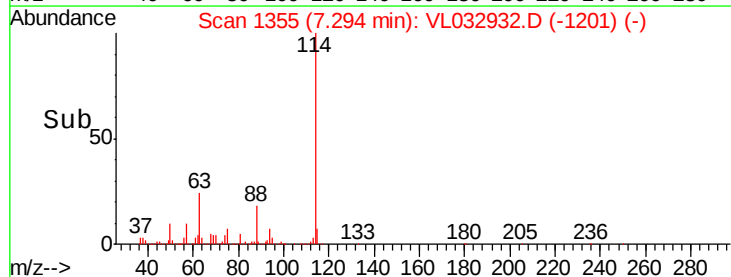
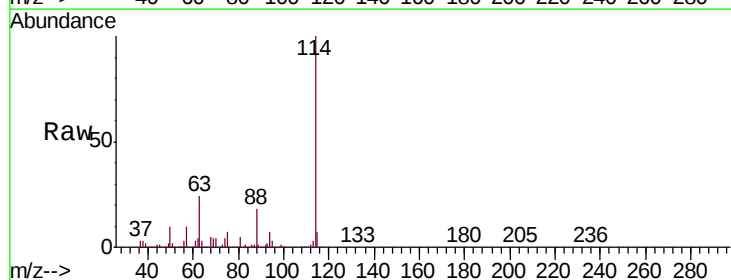
Tgt Ion: 114 Resp: 3313061

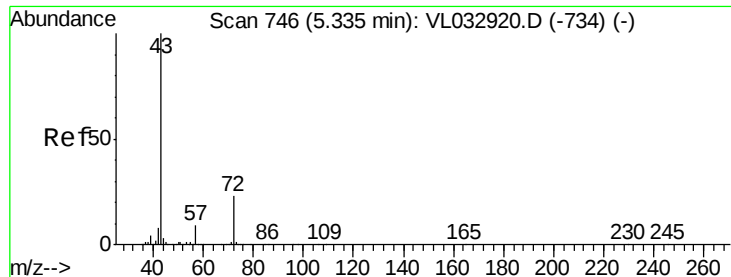
Ion Ratio Lower Upper

114 100

63 24.0 20.1 30.1

88 17.6 14.2 21.4





#34

2-Butanone

Concen: 0.257 ppbv

RT: 5.36 min Scan# 753

Delta R.T. 0.02 min

Lab File: VL032932.D

Acq: 7 Dec 2018 13:13

Instrument :

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ClientSampleId :

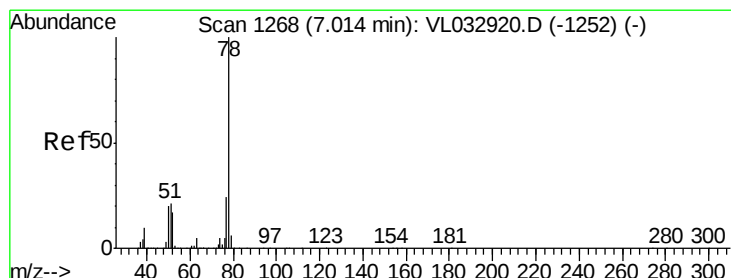
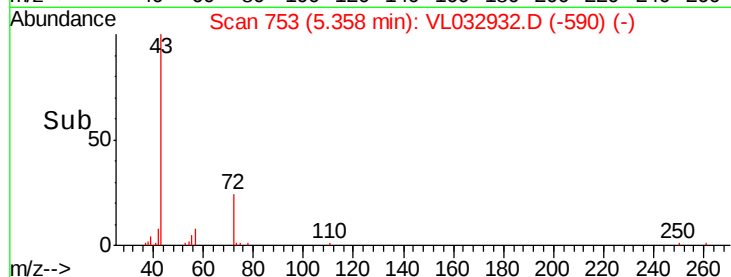
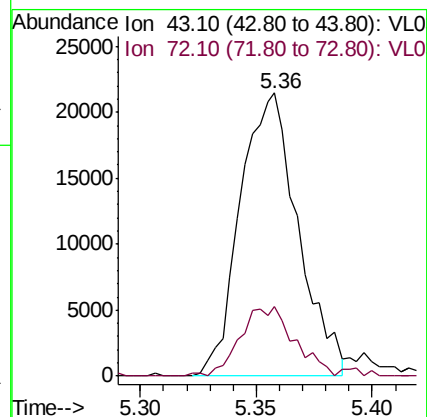
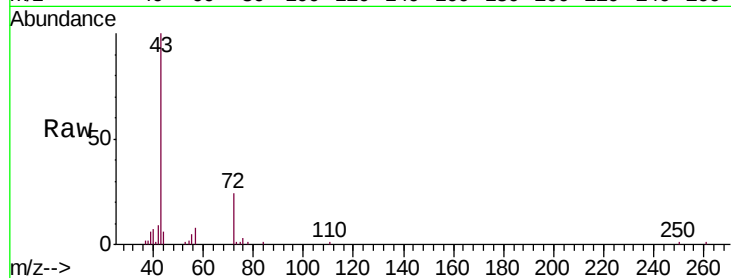
MMSV-05DL2

Tgt Ion: 43 Resp: 37076

Ion Ratio Lower Upper

43 100

72 24.1 18.8 28.2



#36

Benzene

Concen: 5.525 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VL032932.D

Acq: 7 Dec 2018 13:13

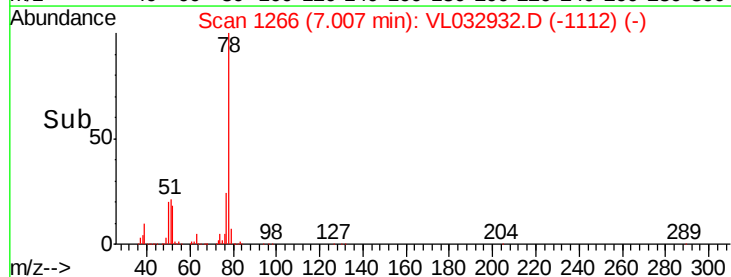
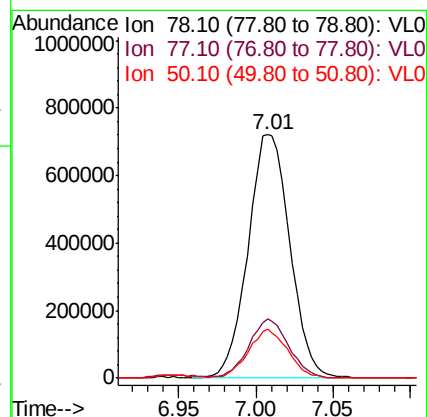
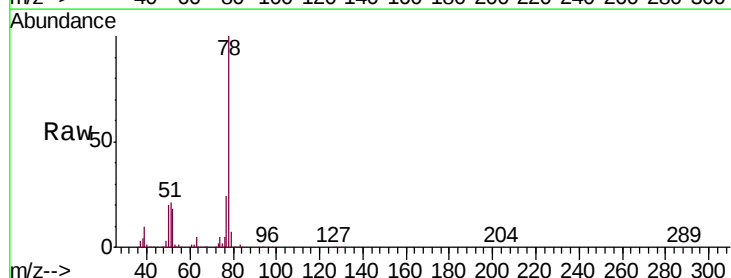
Tgt Ion: 78 Resp: 1346445

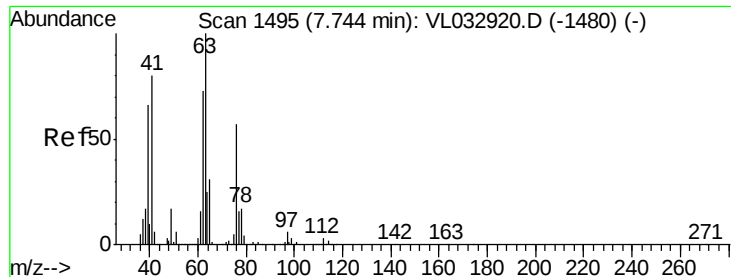
Ion Ratio Lower Upper

78 100

77 24.0 18.9 28.3

50 20.0 16.1 24.1





#39

1,2-Dichloropropane

Concen: 8.524 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

Lab File: VL032932.D

Acq: 7 Dec 2018 13:13

Instrument :

MSVOA_L

ClientSampleId :

MMSV-05DL2

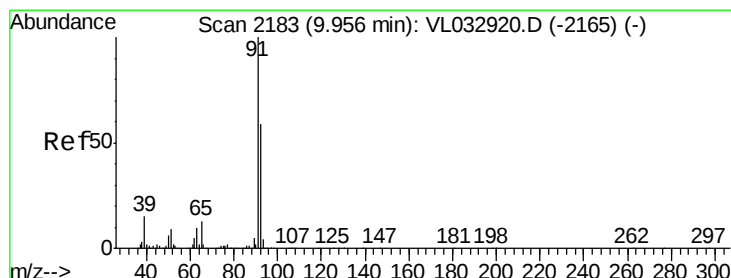
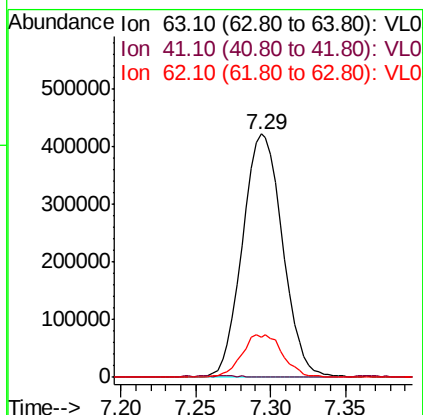
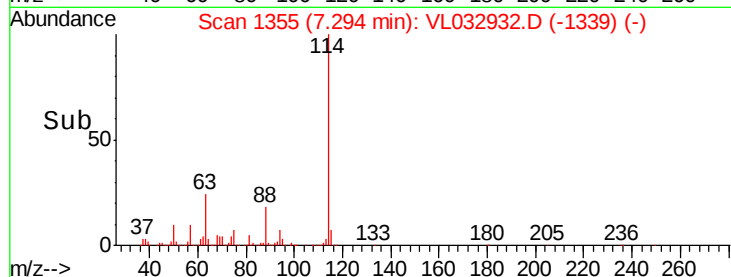
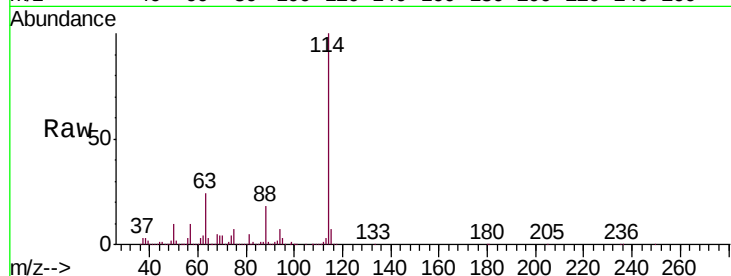
Tgt Ion: 63 Resp: 787774

Ion Ratio Lower Upper

63 100

41 0.0 63.9 95.9#

62 16.6 58.8 88.2#



#53

Toluene

Concen: 3.008 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL032932.D

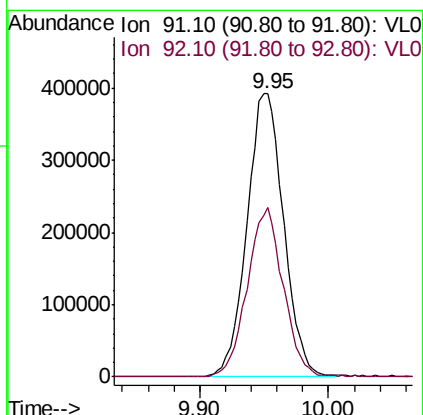
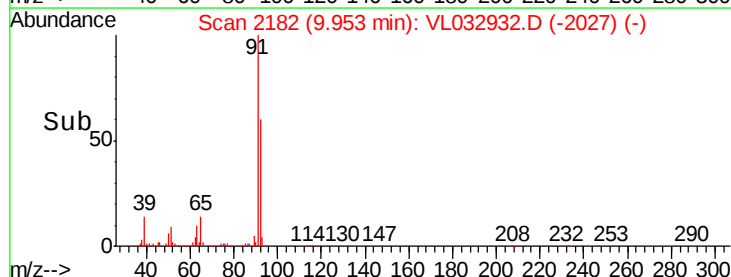
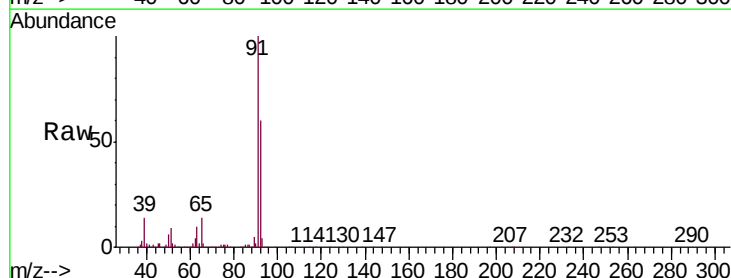
Acq: 7 Dec 2018 13:13

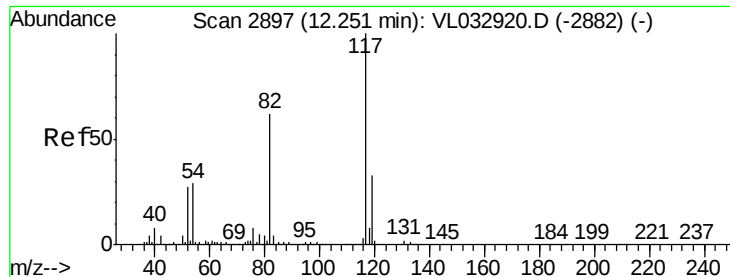
Tgt Ion: 91 Resp: 777425

Ion Ratio Lower Upper

91 100

92 58.7 47.4 71.0

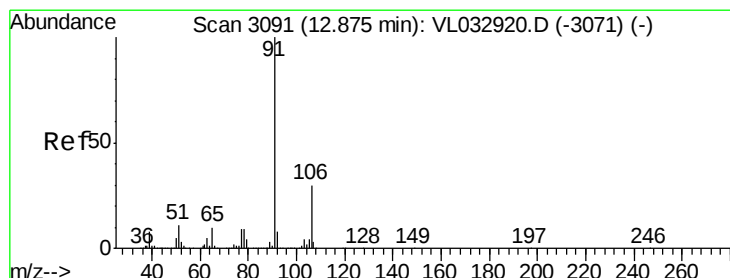
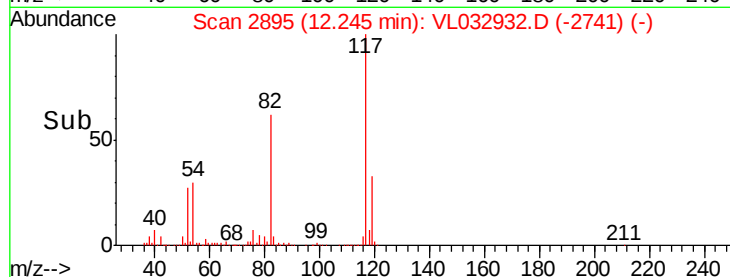
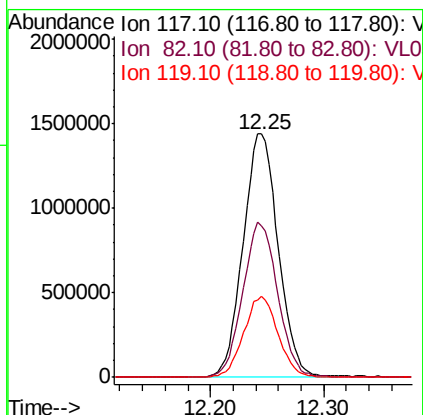
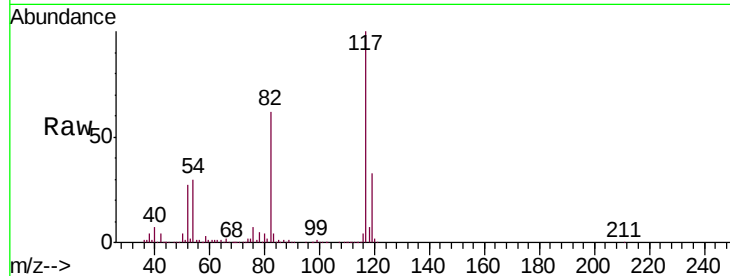




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032932.D
Acq: 7 Dec 2018 13:13

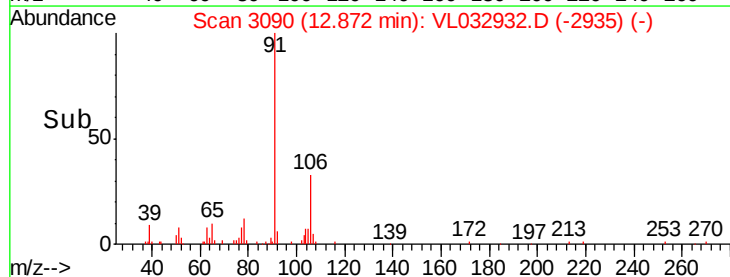
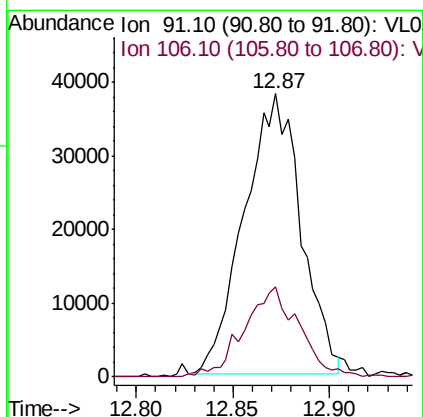
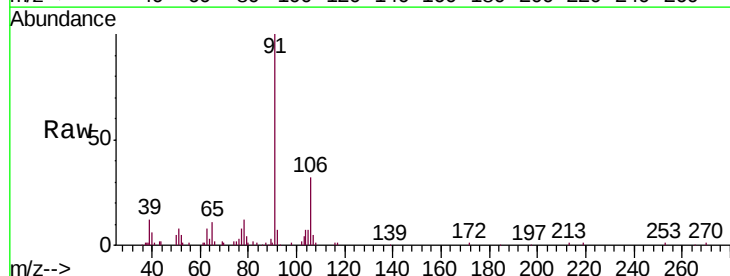
Instrument :
MSVOA_L
ClientSampleId :
MMSV-05DL2

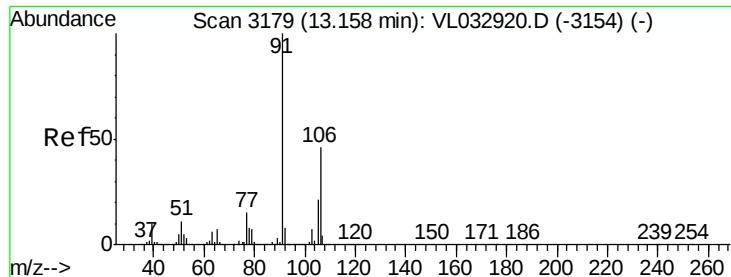
Tgt Ion:117 Resp: 3111131
Ion Ratio Lower Upper
117 100
82 63.3 47.8 71.8
119 32.6 43.1 64.7#



#58
Ethyl Benzene
Concen: 0.235 ppbv
RT: 12.87 min Scan# 3090
Delta R.T. -0.00 min
Lab File: VL032932.D
Acq: 7 Dec 2018 13:13

Tgt Ion: 91 Resp: 77835
Ion Ratio Lower Upper
91 100
106 31.0 23.9 35.9

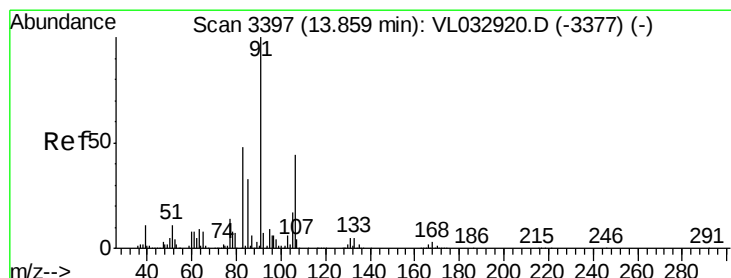
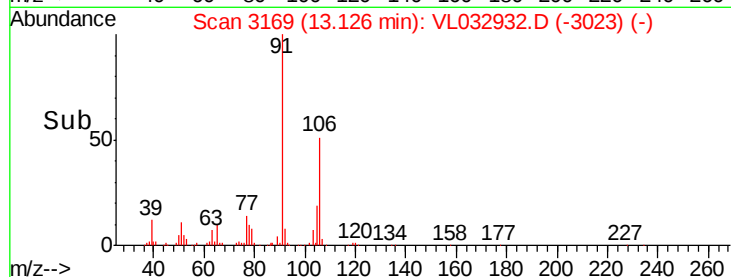
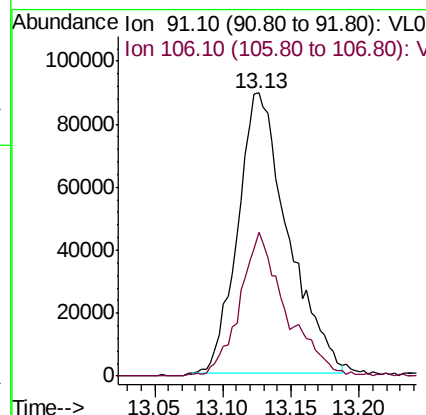
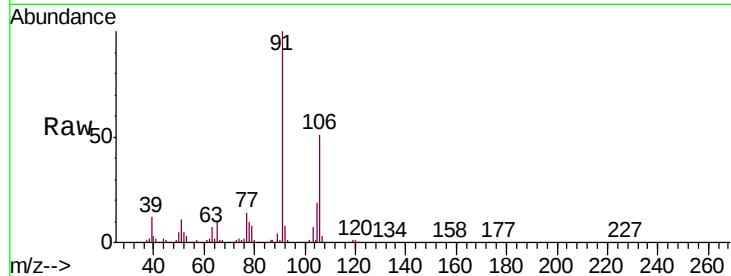




#59
m/p-Xylene
Concen: 0.755 ppbv
RT: 13.13 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL032932.D
Acq: 7 Dec 2018 13:13

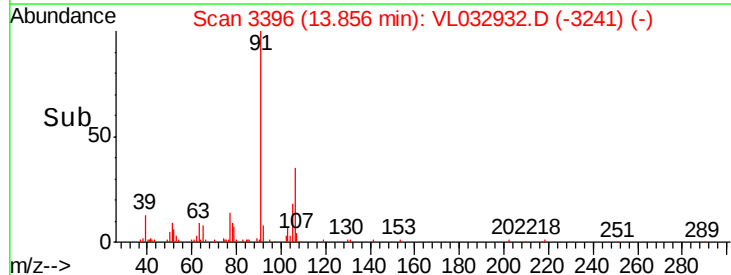
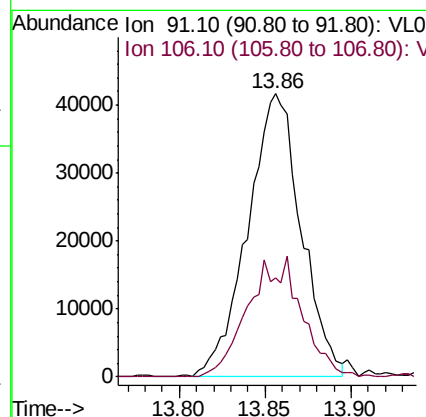
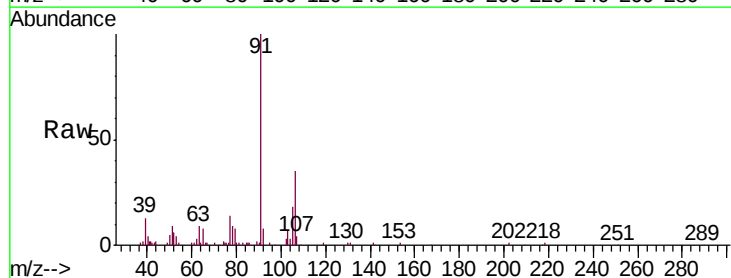
Instrument :
MSVOA_L
ClientSampleId :
MMSV-05DL2

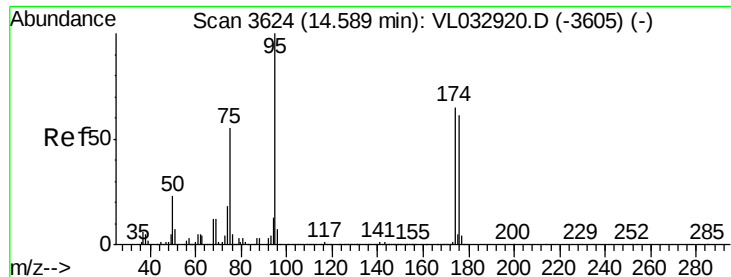
Tgt Ion: 91 Resp: 227160
Ion Ratio Lower Upper
91 100
106 47.6 0.0 0.0#



#60
o-Xylene
Concen: 0.297 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.00 min
Lab File: VL032932.D
Acq: 7 Dec 2018 13:13

Tgt Ion: 91 Resp: 90373
Ion Ratio Lower Upper
91 100
106 42.2 21.9 65.8





#68

1-Bromo-4-Fluorobenzene

Concen: 10.169 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032932.D

Acq: 7 Dec 2018 13:13

Instrument :

MSVOA_L

ClientSampleId :

MMSV-05DL2

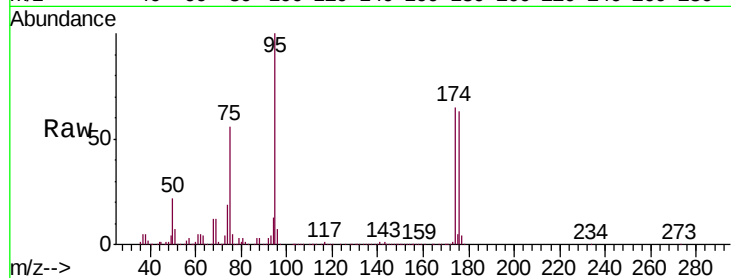
Tgt Ion: 95 Resp: 2337221

Ion Ratio Lower Upper

95 100

174 65.4 51.4 77.0

175 5.0 3.8 5.6



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

