

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032963.D
 Acq On : 11 Dec 2018 20:38
 Operator : SY/AP
 Sample : J6264-13DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 12 00:52:22 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	5.76	49	1350402	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3632054	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3486595	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2752165	10.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.80%

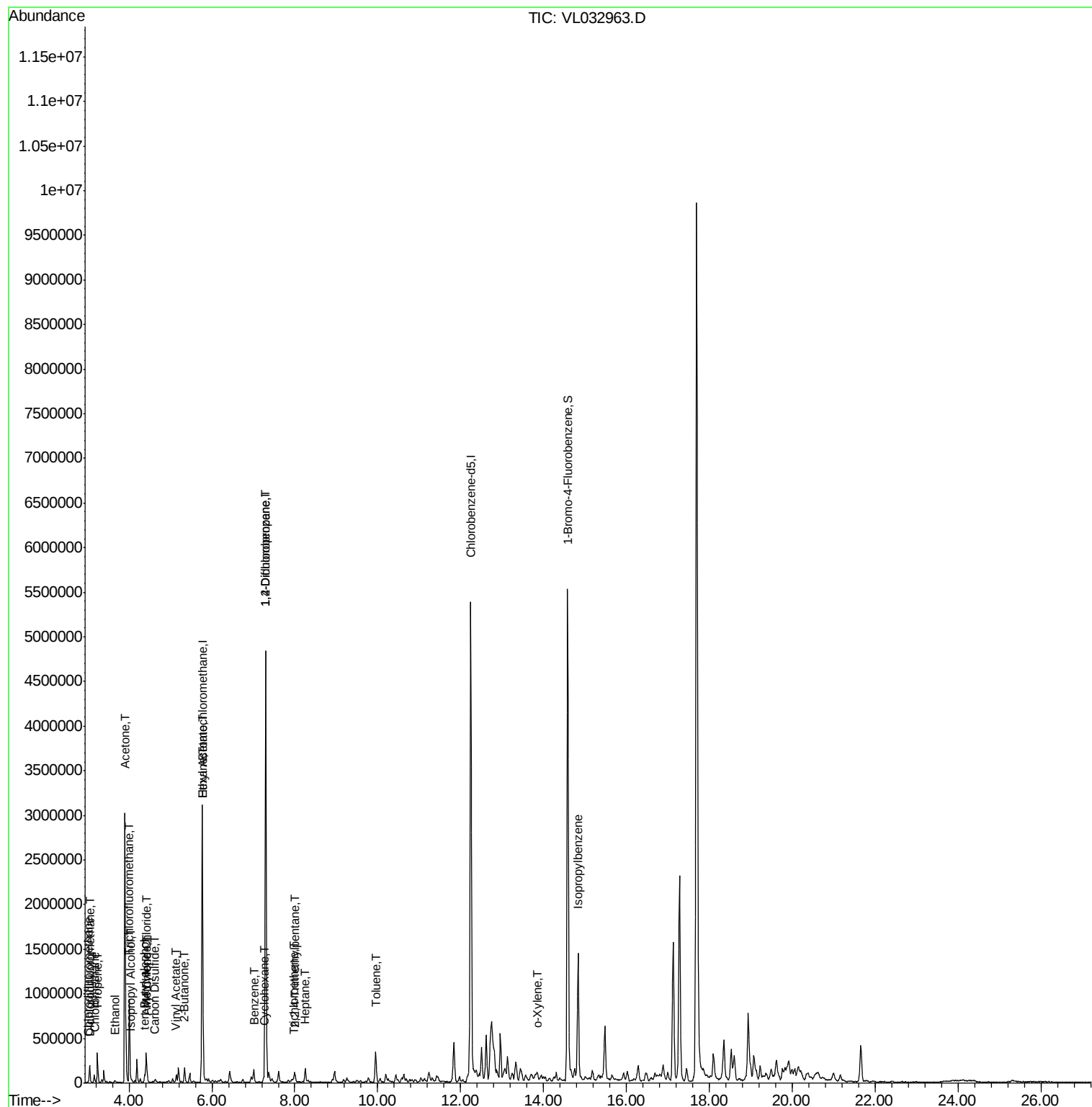
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	7332	0.041 ppbv	92
3) Chlorodifluoromethane	3.02	51	6468	0.063 ppbv #	90
4) Chloromethane	3.17	50	11557	0.194 ppbv #	85
9) Propene	3.24	41	77418	1.914 ppbv	91
10) Heptane	8.25	43	51933	0.342 ppbv	93
11) Trichlorofluoromethane	4.01	101	594425	3.500 ppbv	99
13) Ethanol	3.66	45	12659	0.909 ppbv #	40
15) Acetone	3.90	43	3138123	27.074 ppbv	97
17) tert-Butyl alcohol	4.38	59	75377	2.554 ppbv #	78
19) Isopropyl Alcohol	4.04	45	30553	0.420 ppbv #	95
20) Methylene Chloride	4.41	84	95274	1.682 ppbv	93
21) Allyl Chloride	4.43	41	15446	0.164 ppbv #	61
23) Vinyl Acetate	5.14	43	17849	0.091 ppbv #	1
25) Ethyl Acetate	5.78	43	90511	0.331 ppbv #	81
26) Hexane	5.78	57	129618	1.025 ppbv #	44
27) Carbon Disulfide	4.62	76	37001	0.234 ppbv #	86
30) Cyclohexane	7.25	84	4984	0.048 ppbv #	1
34) 2-Butanone	5.34	43	207806	1.314 ppbv	98
36) Benzene	7.01	78	109346	0.409 ppbv	95
38) Trichloroethene	7.96	130	4421	0.040 ppbv #	63
39) 1,2-Dichloropropane	7.29	63	848196	8.372 ppbv #	21
44) 2,2,4-Trimethylpentane	7.99	57	48051	0.106 ppbv #	36
53) Toluene	9.95	91	240119	0.848 ppbv	100
60) o-Xylene	13.85	91	17387	0.051 ppbv	70
62) Isopropylbenzene	14.83	105	1257808	2.647 ppbv	100

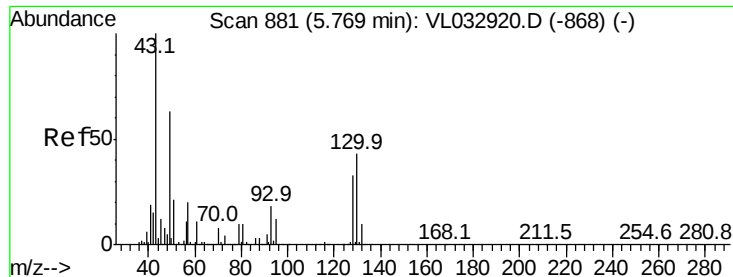
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 07 09:35:17 2018
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Instrument :

MSVOA_L

ClientSampleId :

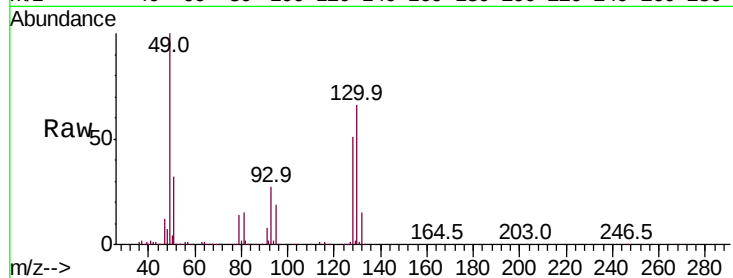
Tot Ion: 49 Resp: 1350402

Ion Ratio Lower Upper

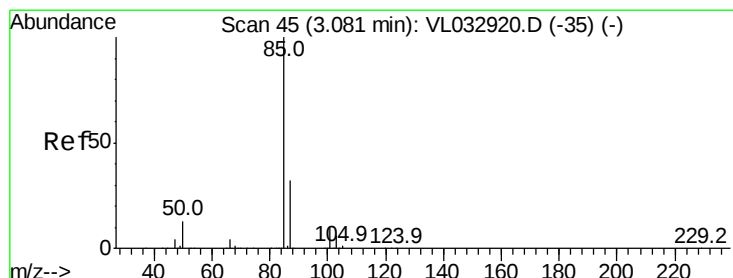
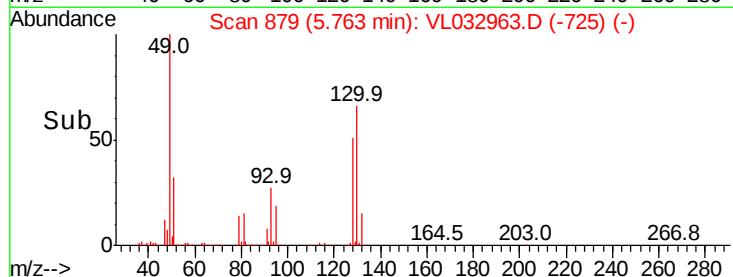
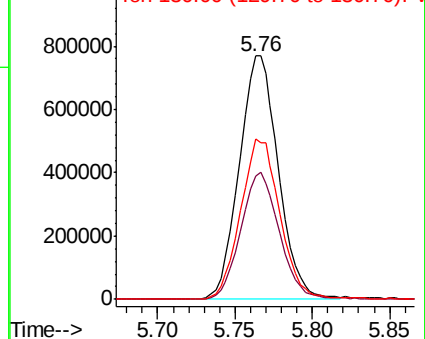
49 100

128 52.1 26.3 78.8

130 67.0 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



#2

Dichlorodifluoromethane

Concen: 0.041 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL032963.D

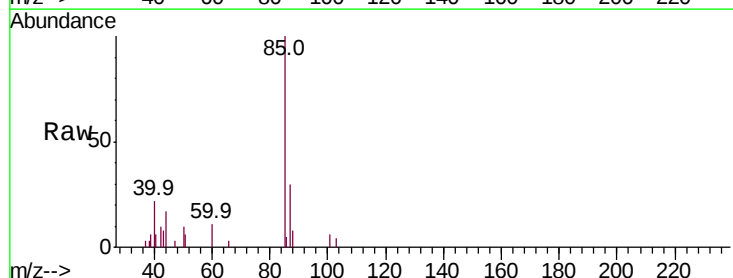
Acq: 11 Dec 2018 20:38

Tgt Ion: 85 Resp: 7332

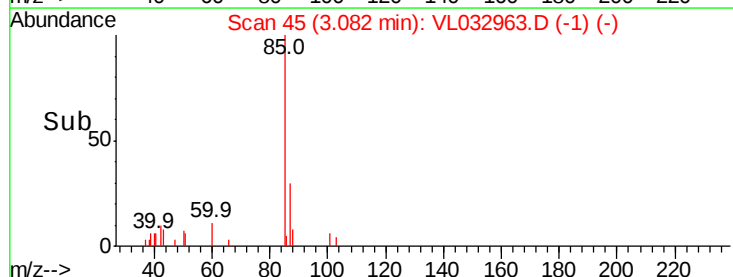
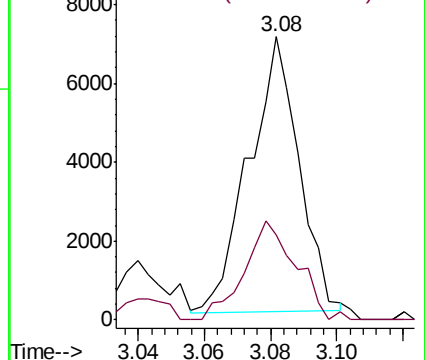
Ion Ratio Lower Upper

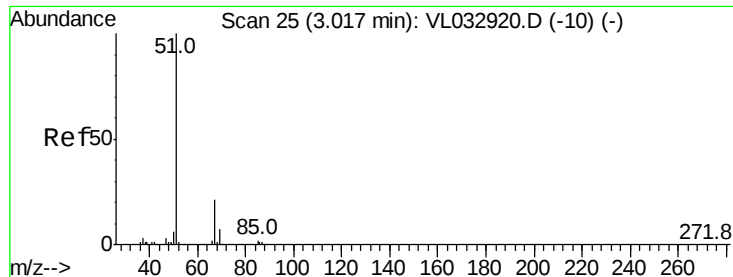
85 100

87 36.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.063 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Instrument :

MSVOA_L

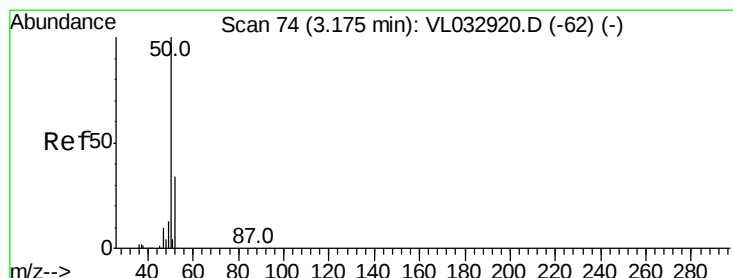
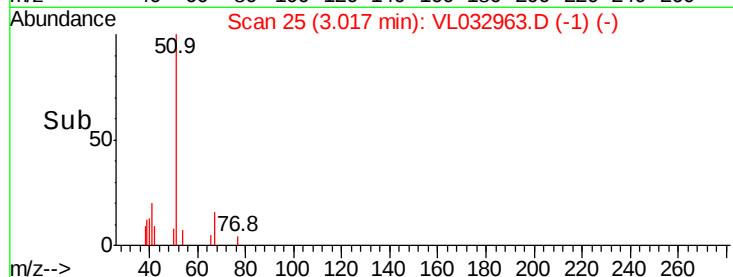
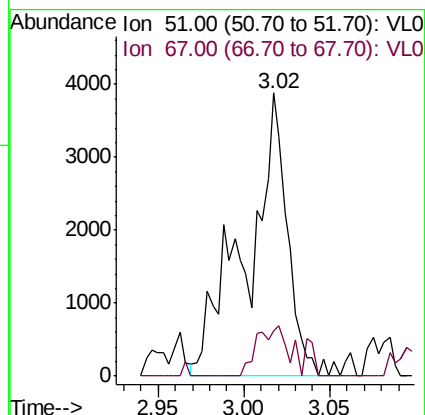
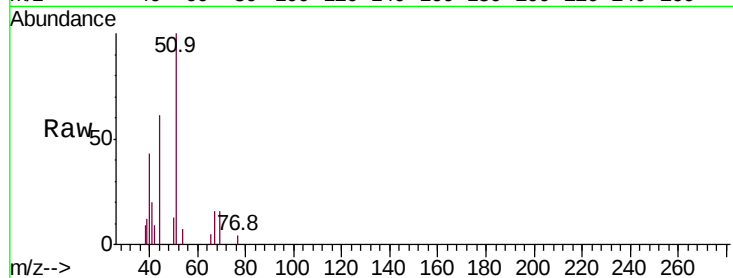
ClientSampled :

Tot Ion: 51 Resp: 6468

Ion Ratio Lower Upper

51 100

67 16.3 16.8 25.2#



#4

Chloromethane

Concen: 0.194 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032963.D

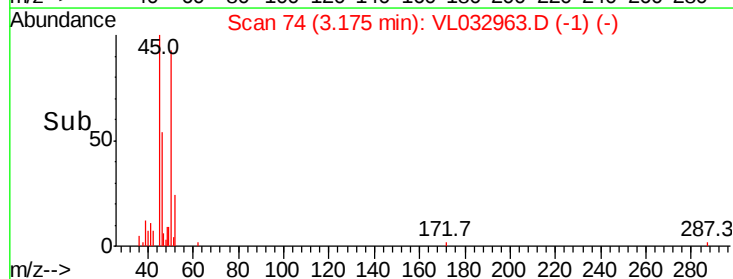
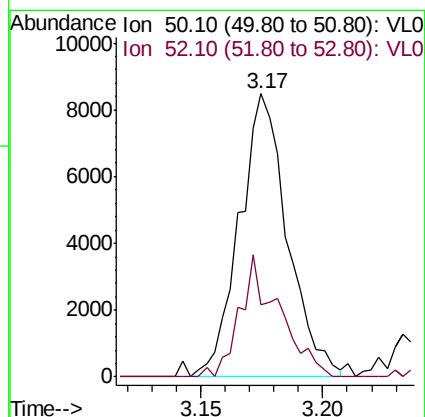
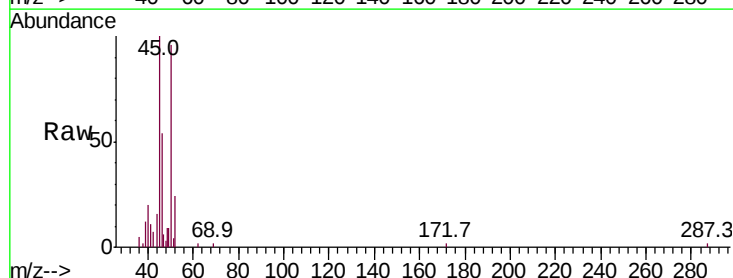
Acq: 11 Dec 2018 20:38

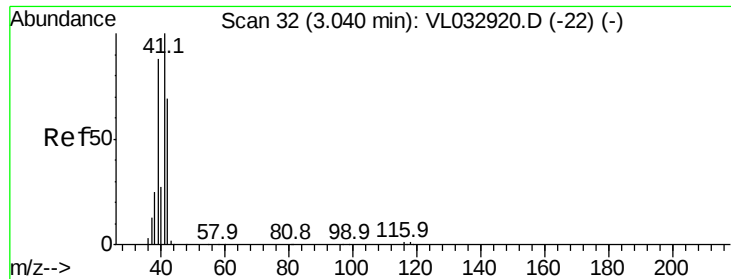
Tgt Ion: 50 Resp: 11557

Ion Ratio Lower Upper

50 100

52 25.4 27.3 40.9#





#9

Propene

Concen: 1.914 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Instrument :

MSVOA_L

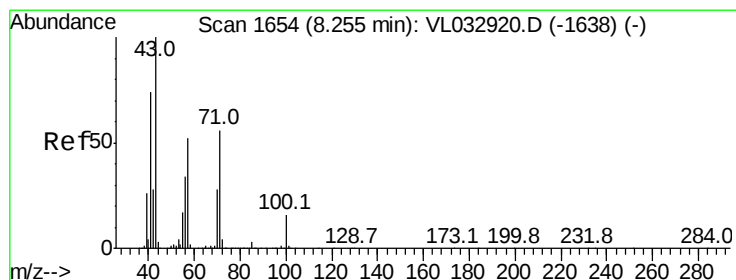
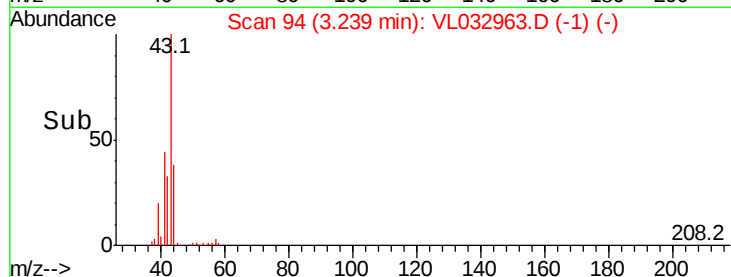
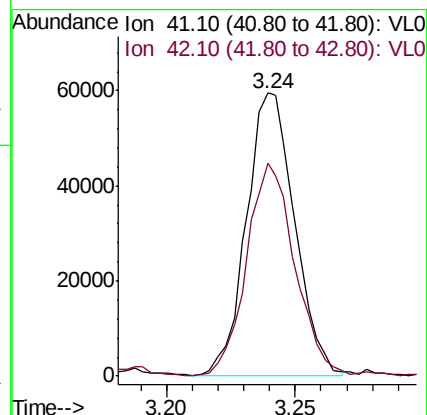
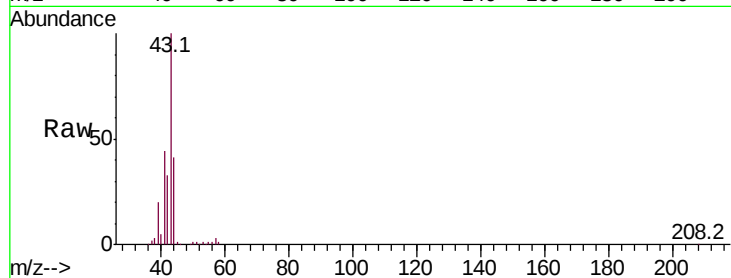
ClientSampleId :

Tot Ion: 41 Resp: 77418

Ion Ratio Lower Upper

41 100

42 77.2 56.2 84.2



#10

Heptane

Concen: 0.342 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL032963.D

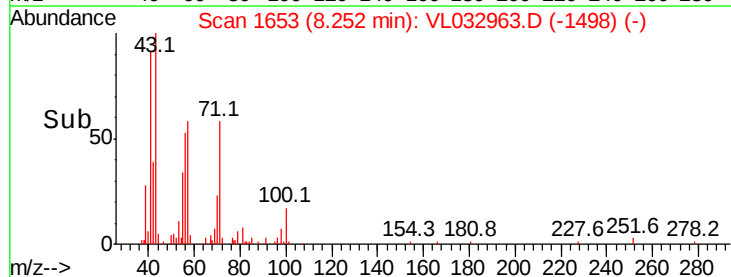
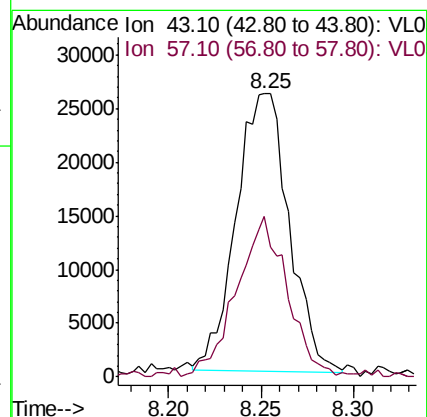
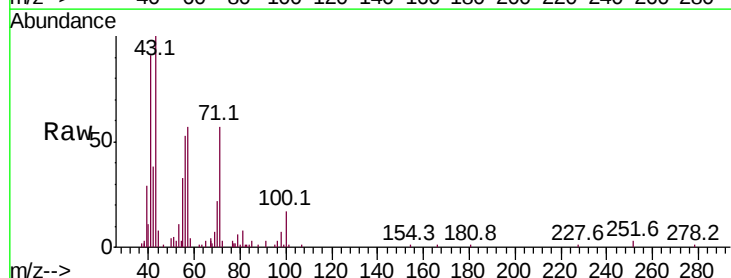
Acq: 11 Dec 2018 20:38

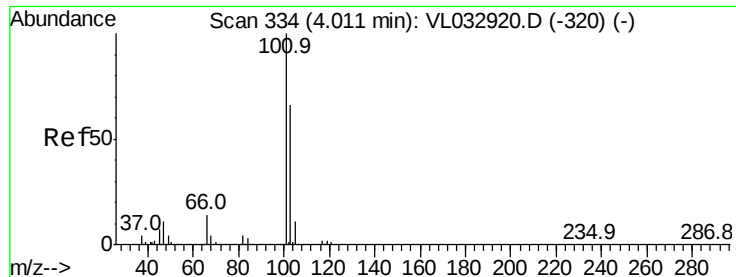
Tgt Ion: 43 Resp: 51933

Ion Ratio Lower Upper

43 100

57 56.8 41.8 62.6

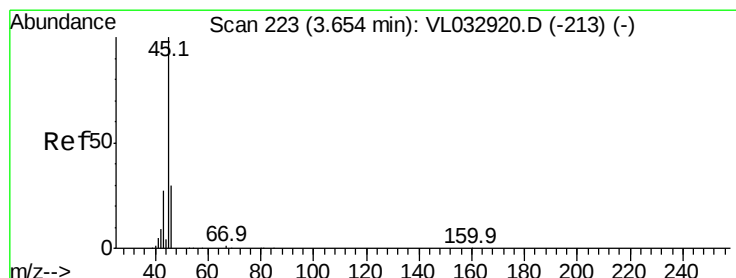
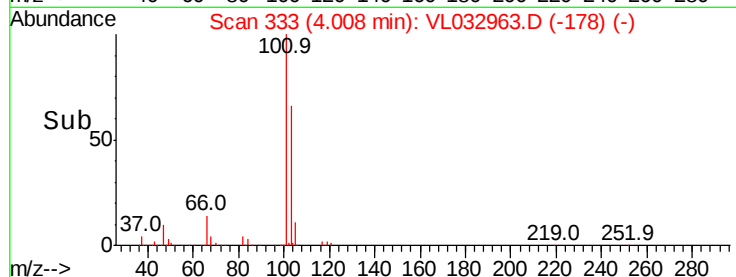
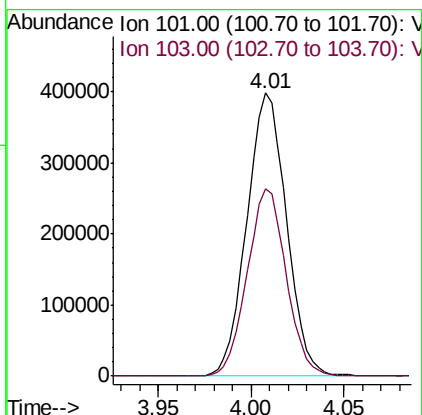
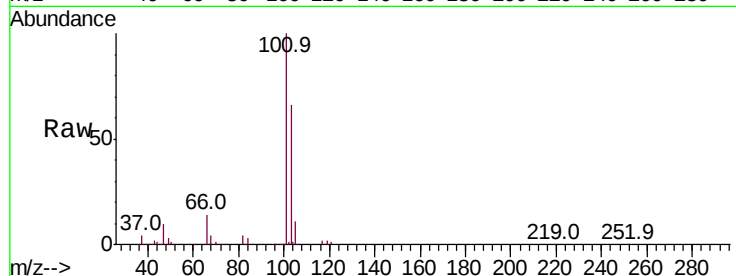




#11
 Trichlorofluoromethane
 Concen: 3.500 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: VL032963.D
 Acq: 11 Dec 2018 20:38

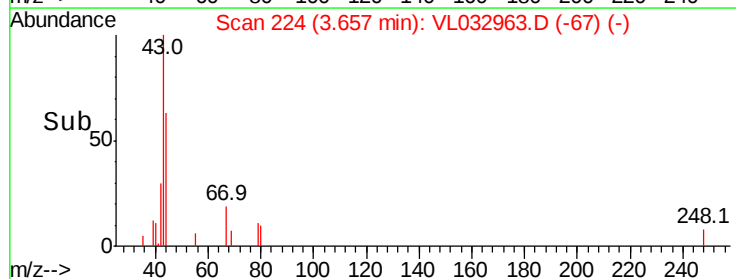
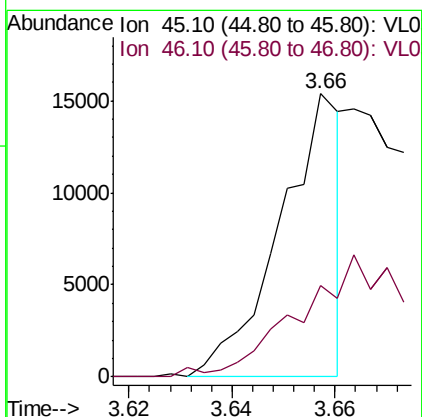
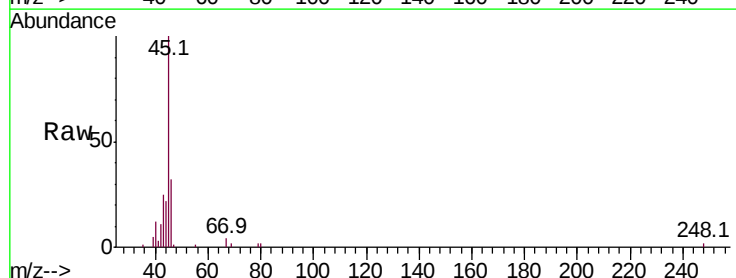
Instrument :
 MSVOA_L
 ClientSampled :

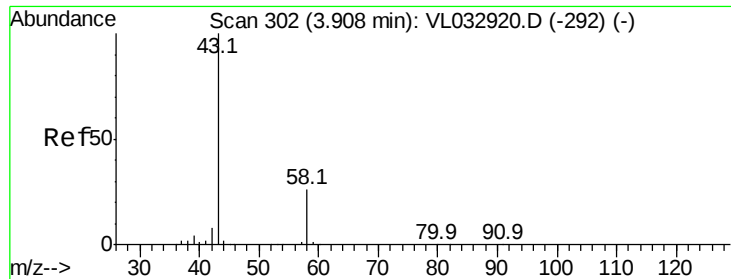
Tot Ion:101 Resp: 594425
 Ion Ratio Lower Upper
 101 100
 103 66.4 52.7 79.1



#13
 Ethanol
 Concen: 0.909 ppbv
 RT: 3.66 min Scan# 224
 Delta R.T. 0.00 min
 Lab File: VL032963.D
 Acq: 11 Dec 2018 20:38

Tgt Ion: 45 Resp: 12659
 Ion Ratio Lower Upper
 45 100
 46 0.0 13.8 55.4#





#15

Acetone

Concen: 27.074 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Instrument :

MSVOA_L

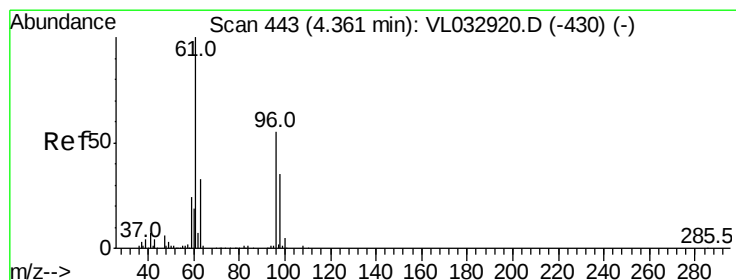
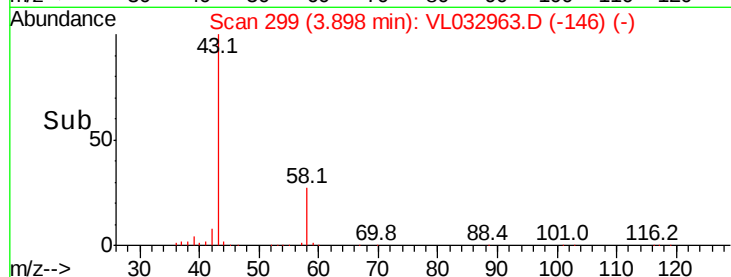
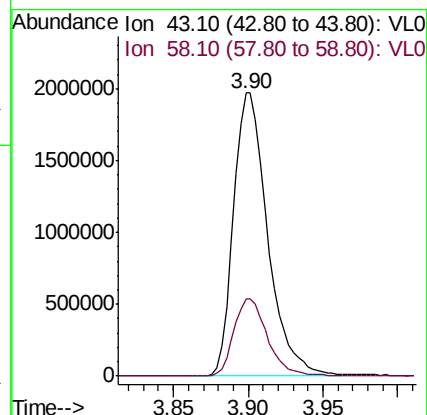
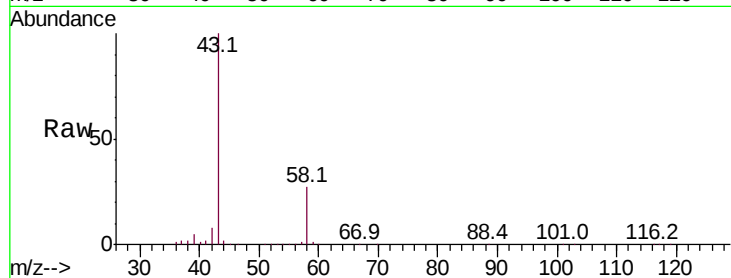
ClientSampleId :

Tot Ion: 43 Resp: 3138123

Ion Ratio Lower Upper

43 100

58 27.1 20.6 30.8



#17

tert-Butyl alcohol

Concen: 2.554 ppbv

RT: 4.38 min Scan# 449

Delta R.T. 0.02 min

Lab File: VL032963.D

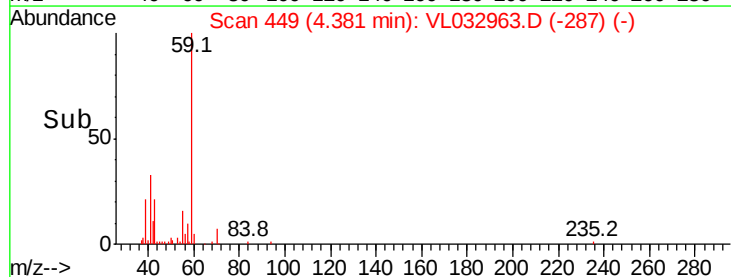
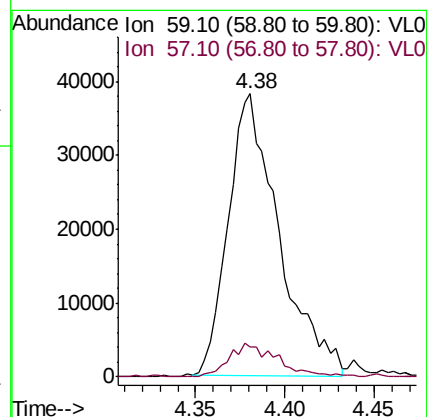
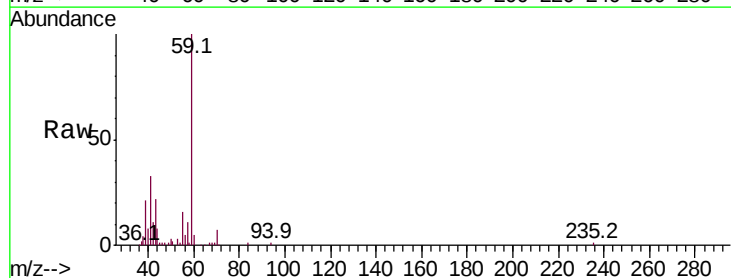
Acq: 11 Dec 2018 20:38

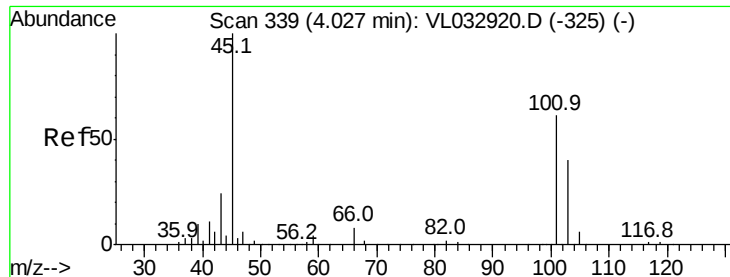
Tgt Ion: 59 Resp: 75377

Ion Ratio Lower Upper

59 100

57 11.5 0.6 1.0#





#19

Isopropyl Alcohol

Concen: 0.420 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.02 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Instrument :

MSVOA_L

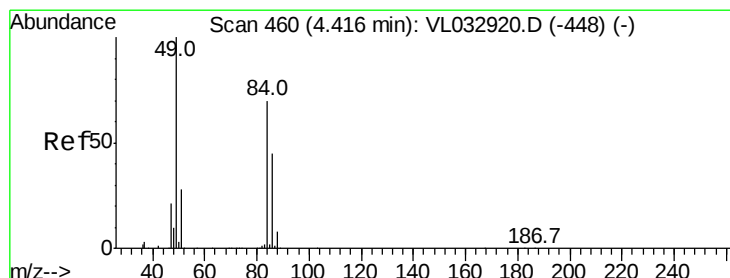
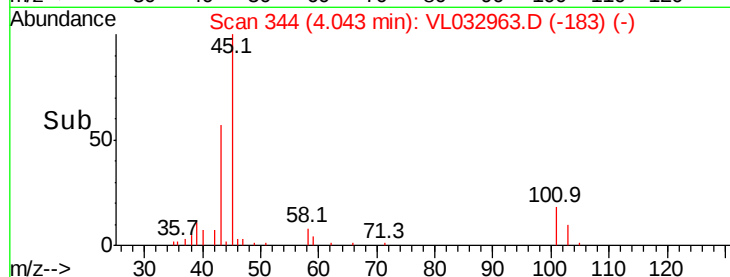
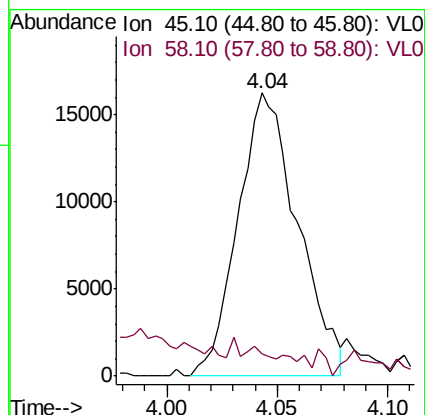
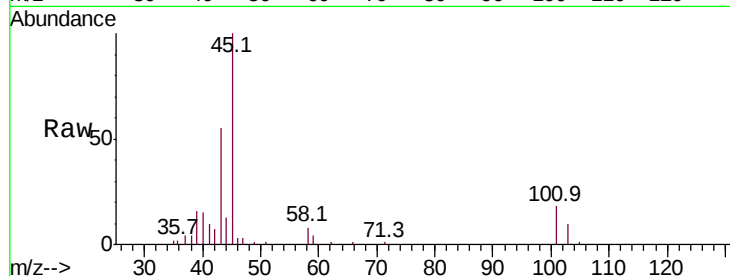
ClientSampleId :

Tot Ion: 45 Resp: 30553

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



#20

Methylene Chloride

Concen: 1.682 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Tgt Ion: 84 Resp: 95274

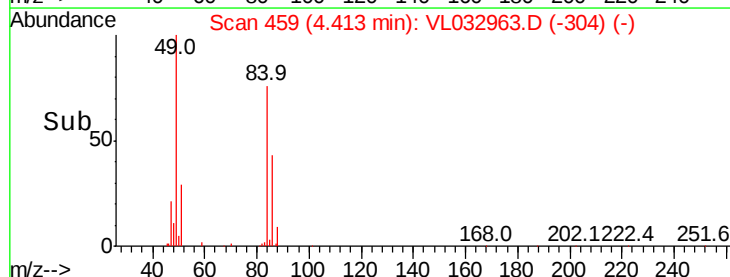
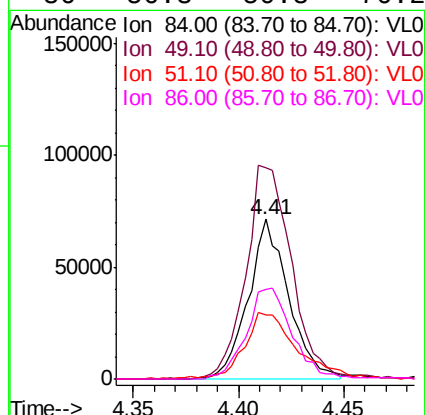
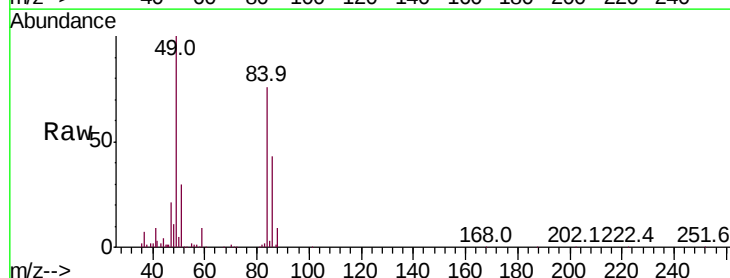
Ion Ratio Lower Upper

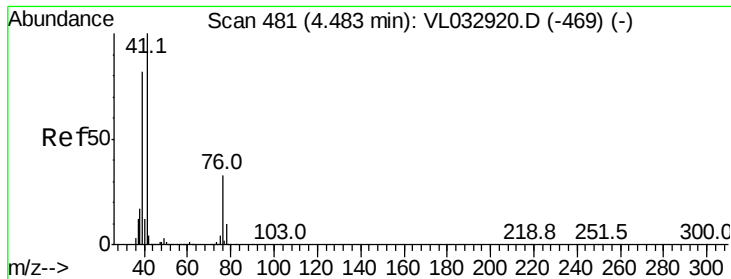
84 100

49 132.4 113.8 170.8

51 38.8 31.8 47.8

86 56.3 50.8 76.2





#21

Allvl Chloride

Concen: 0.164 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.05 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Instrument :

MSVOA_L

ClientSampleId :

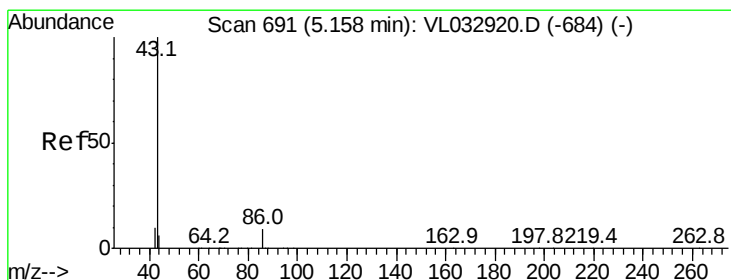
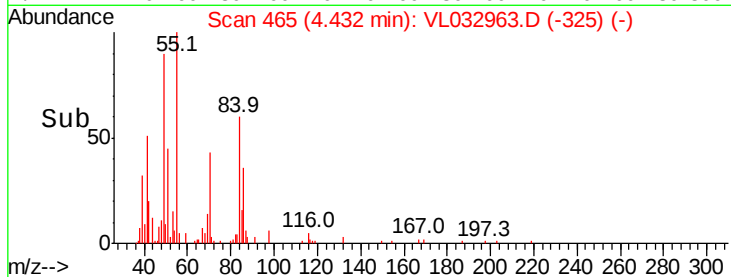
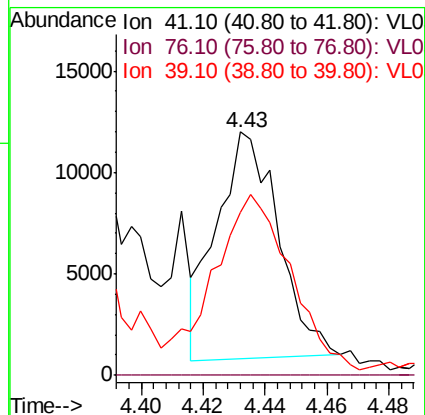
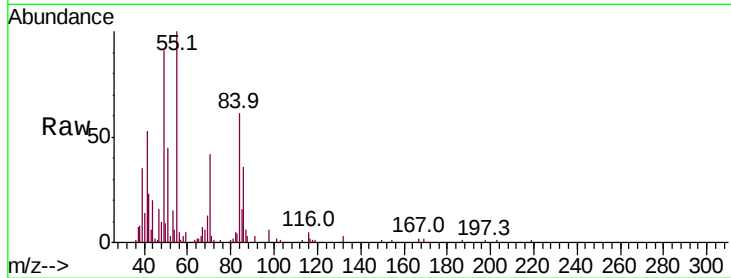
Tot Ion: 41 Resp: 15446

Ion Ratio Lower Upper

41 100

76 0.0 25.2 37.8#

39 110.6 65.2 97.8#



#23

Vinyl Acetate

Concen: 0.091 ppbv

RT: 5.14 min Scan# 685

Delta R.T. -0.02 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Tgt Ion: 43 Resp: 17849

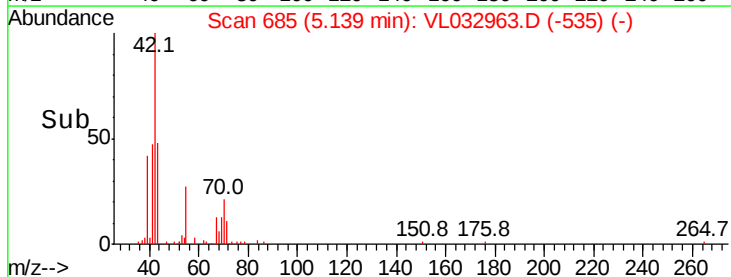
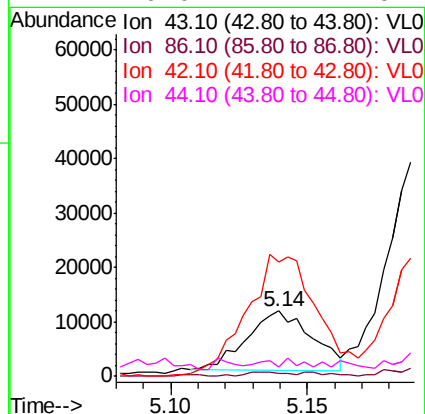
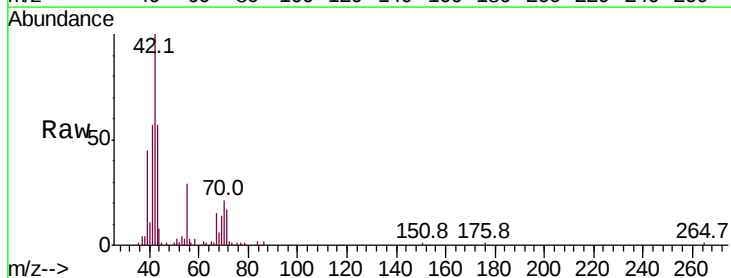
Ion Ratio Lower Upper

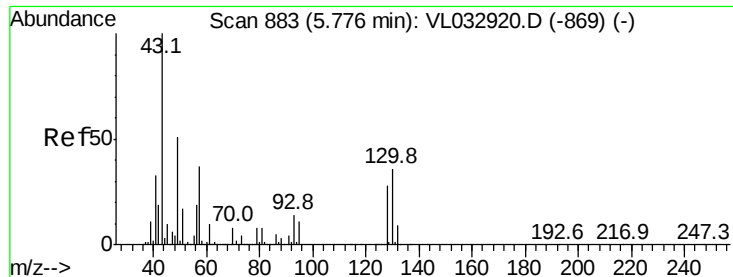
43 100

86 2.0 6.6 9.8#

42 189.9 8.3 12.5#

44 0.0 4.2 6.4#





#25

Ethyl Acetate

Concen: 0.331 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.01 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 90511

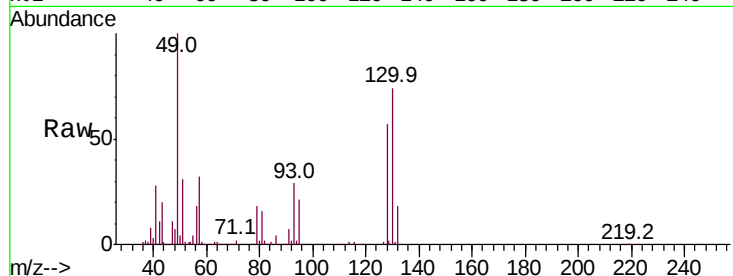
Ion Ratio Lower Upper

43 100

45 3.4 7.8 11.6#

61 0.7 7.4 11.2#

70 1.9 5.7 8.5#



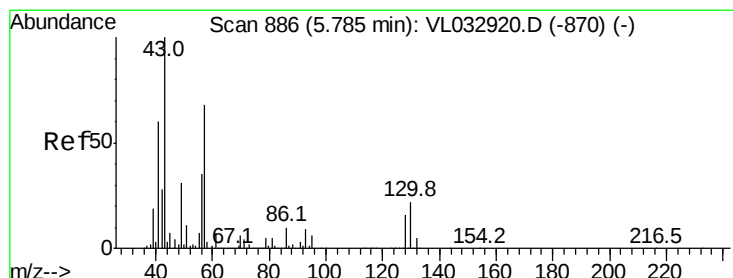
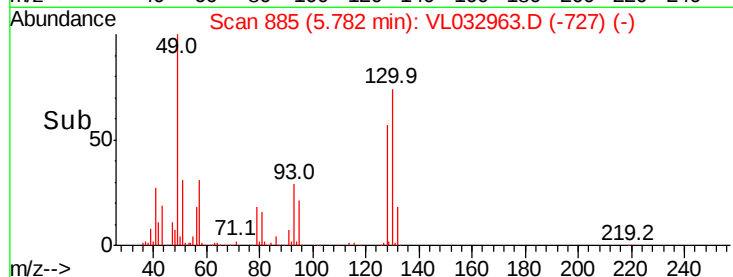
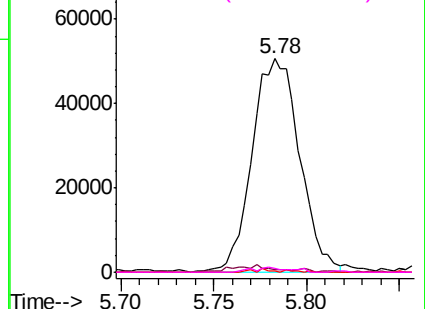
Abundance

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: 1.025 ppbv

RT: 5.78 min Scan# 885

Delta R.T. -0.00 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Tgt Ion: 57 Resp: 129618

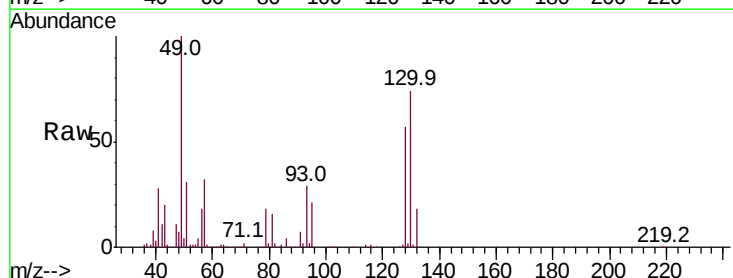
Ion Ratio Lower Upper

57 100

41 93.4 72.2 108.2

43 69.8 171.9 257.9#

56 55.7 42.2 63.2



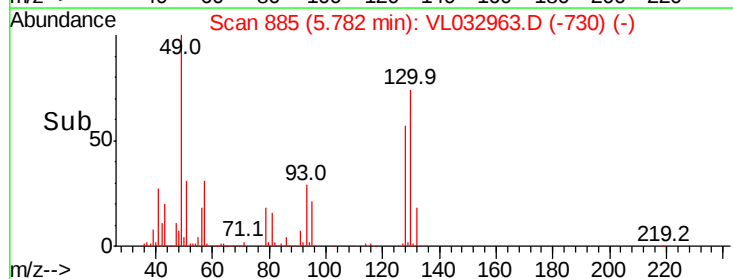
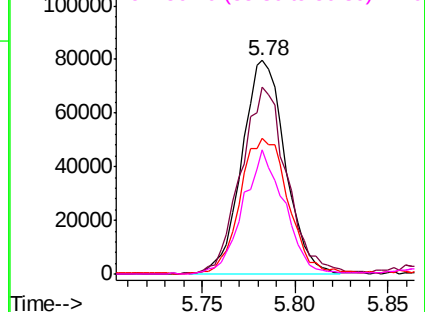
Abundance

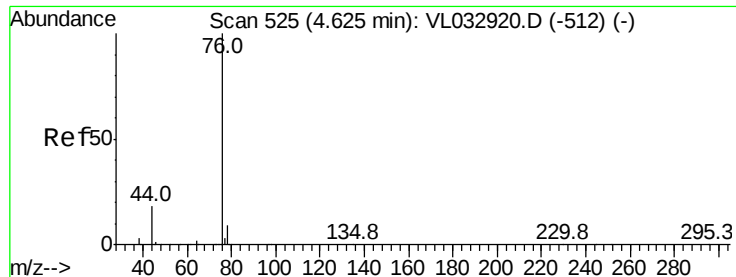
Ion 57.10 (56.80 to 57.80): VL0

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: 0.234 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Instrument :

MSVOA_L

ClientSampleId :

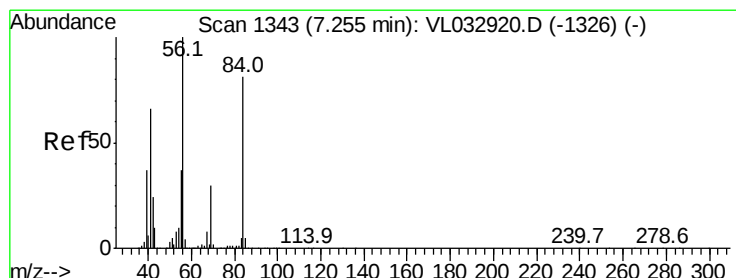
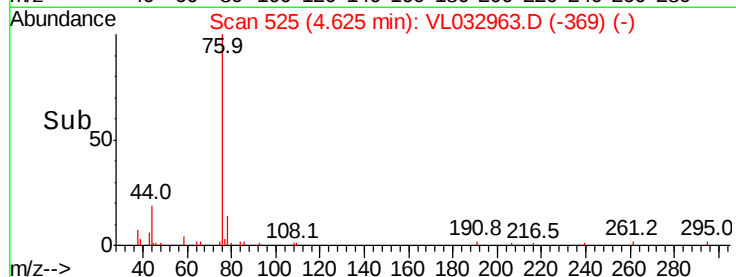
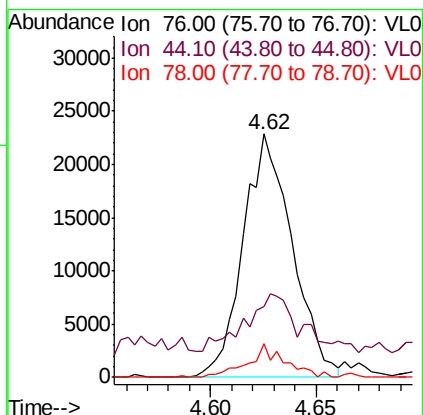
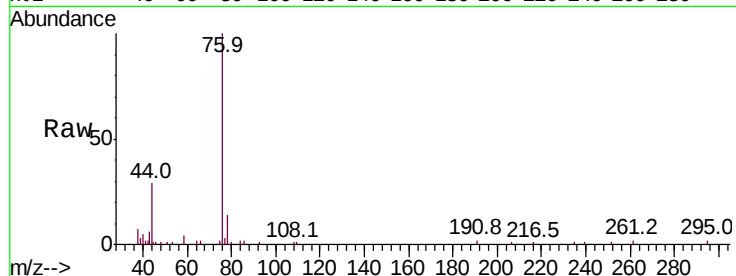
Tot Ion: 76 Resp: 37001

Ion Ratio Lower Upper

76 100

44 27.3 14.7 22.1#

78 10.4 7.4 11.2



#30

Cyclohexane

Concen: 0.048 ppbv

RT: 7.25 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

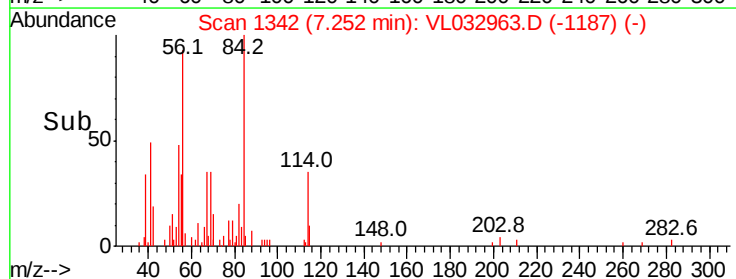
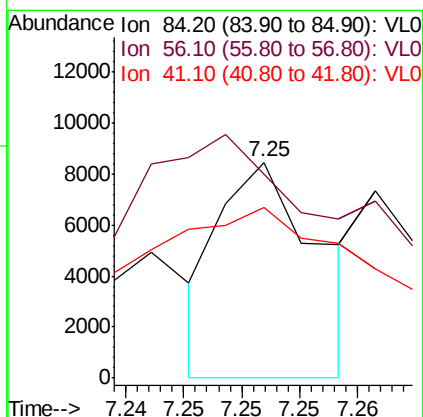
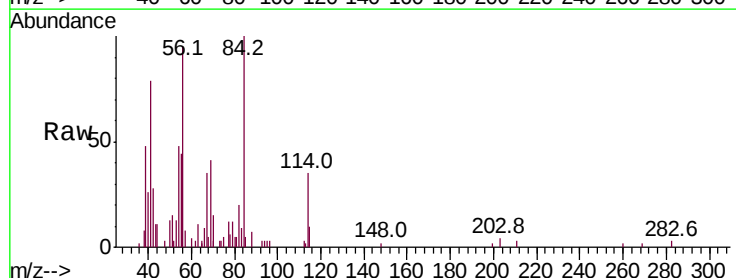
Tgt Ion: 84 Resp: 4984

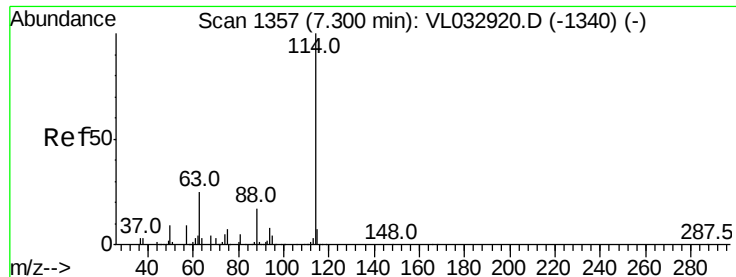
Ion Ratio Lower Upper

84 100

56 0.0 102.5 153.7#

41 292.8 64.1 96.1#

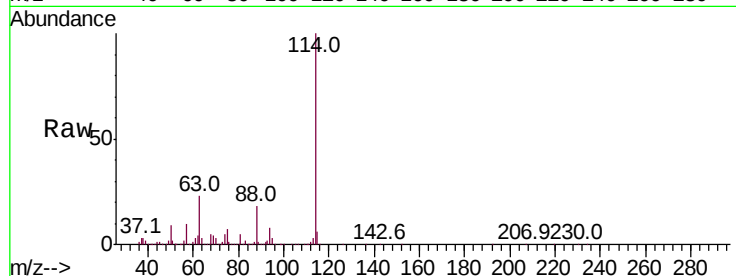




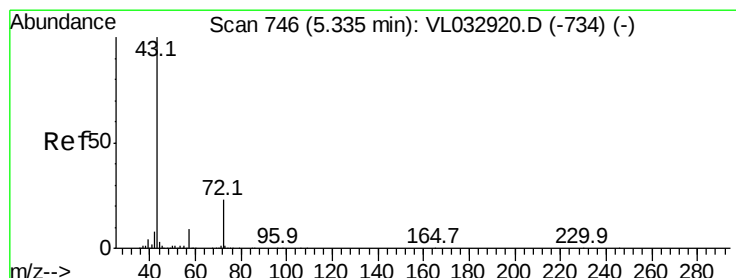
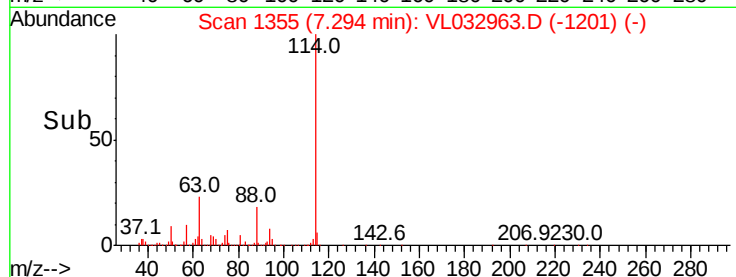
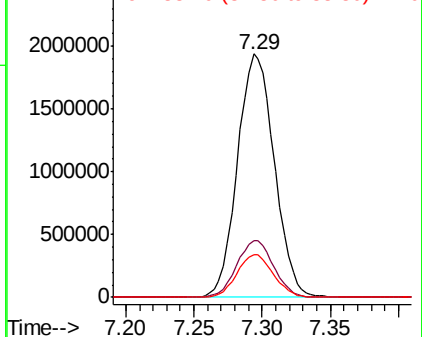
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL032963.D
 Acq: 11 Dec 2018 20:38

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3632054
 Ion Ratio Lower Upper
 114 100
 63 23.5 20.1 30.1
 88 17.4 14.2 21.4

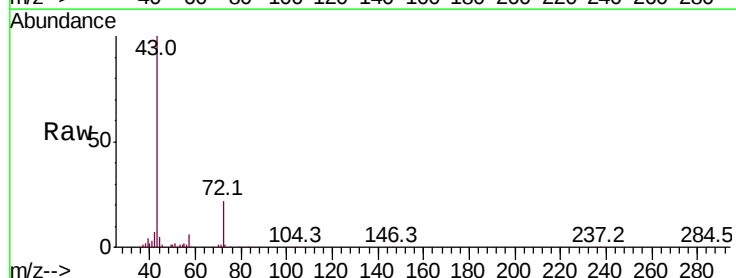


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

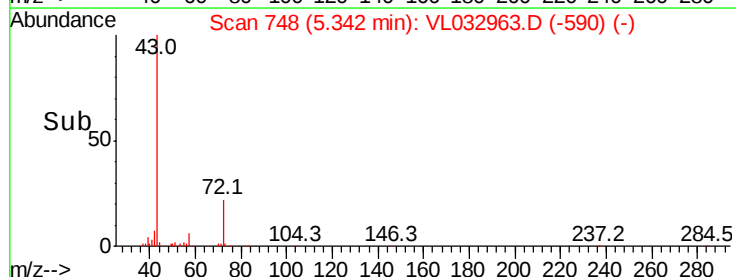
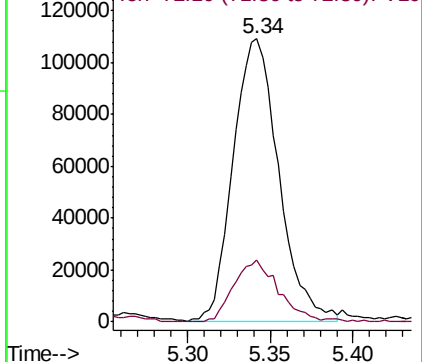


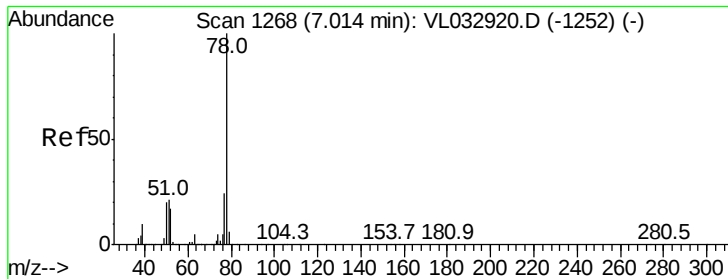
#34
 2-Butanone
 Concen: 1.314 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.01 min
 Lab File: VL032963.D
 Acq: 11 Dec 2018 20:38

Tgt Ion: 43 Resp: 207806
 Ion Ratio Lower Upper
 43 100
 72 22.4 18.8 28.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.409 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Instrument :

MSVOA_L

ClientSampleId :

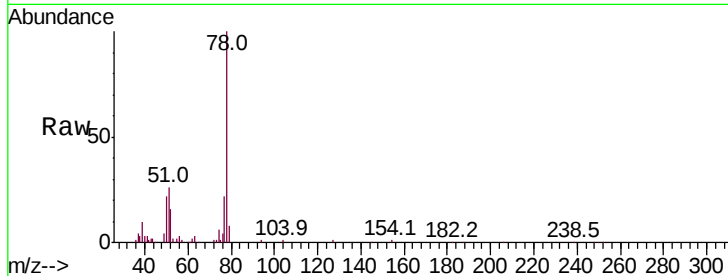
Tot Ion: 78 Resp: 109346

Ion Ratio Lower Upper

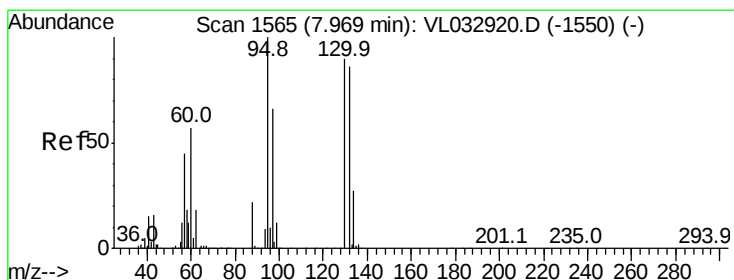
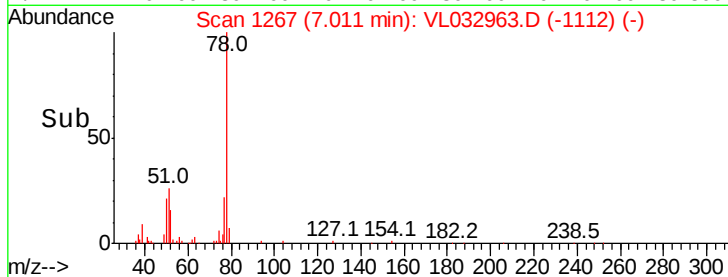
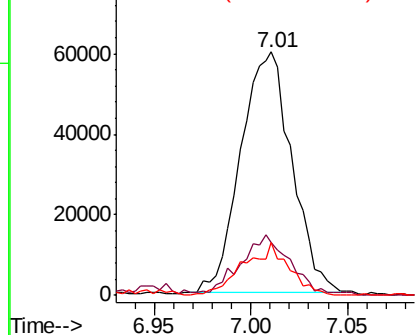
78 100

77 21.1 18.9 28.3

50 21.8 16.1 24.1



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 0.040 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Tgt Ion:130 Resp: 4421

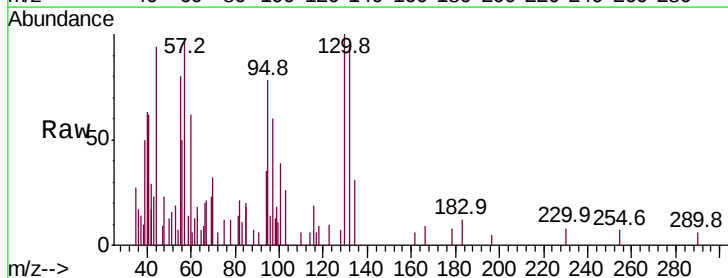
Ion Ratio Lower Upper

130 100

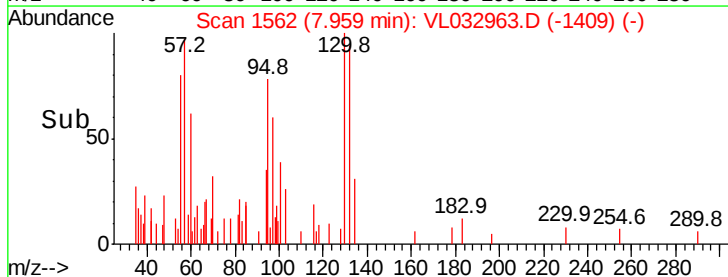
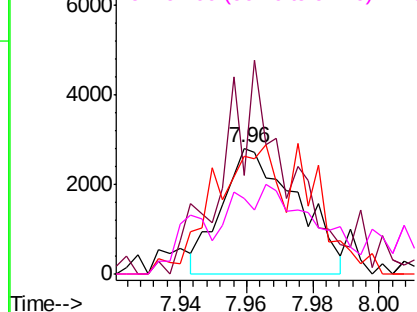
95 64.5 88.6 132.8#

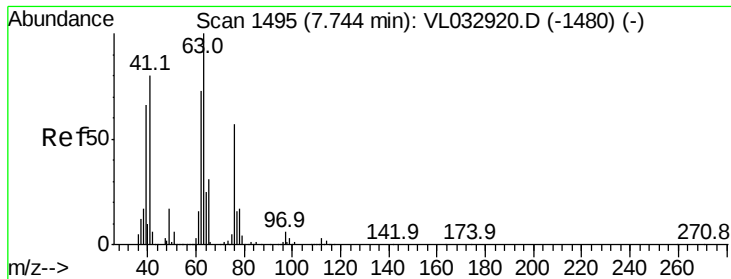
132 79.3 76.1 114.1

97 26.5 58.0 87.0#



Abundance Ion 130.00 (129.70 to 130.70): V
Ion 95.00 (94.70 to 95.70): VL0
Ion 132.00 (131.70 to 132.70): V
Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 8.372 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Instrument :

MSVOA_L

ClientSampleId :

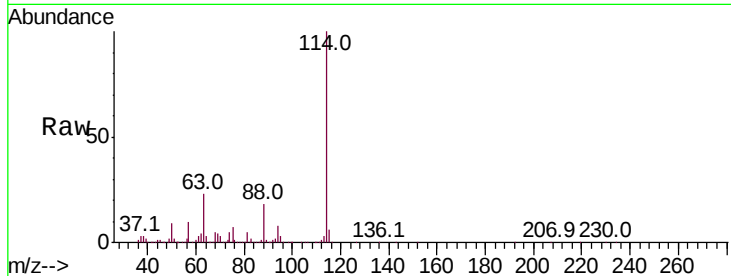
Tot Ion: 63 Resp: 848196

Ion Ratio Lower Upper

63 100

41 0.0 63.9 95.9#

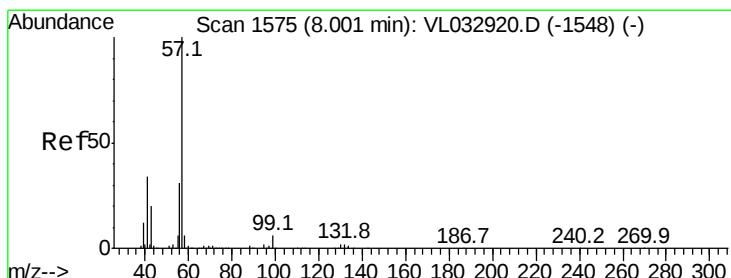
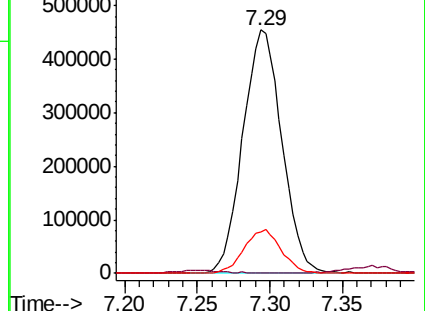
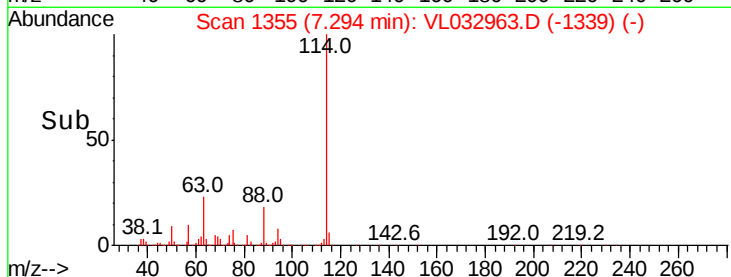
62 16.9 58.8 88.2#



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: 0.106 ppbv

RT: 7.99 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

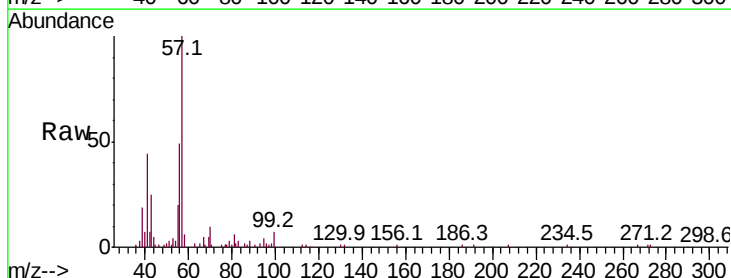
Tgt Ion: 57 Resp: 48051

Ion Ratio Lower Upper

57 100

41 0.0 27.0 40.4#

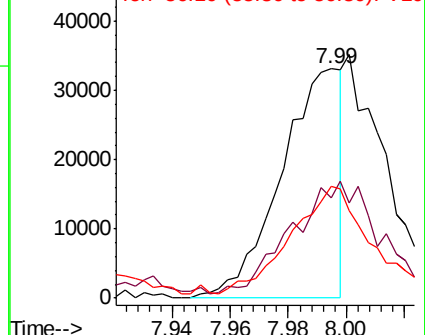
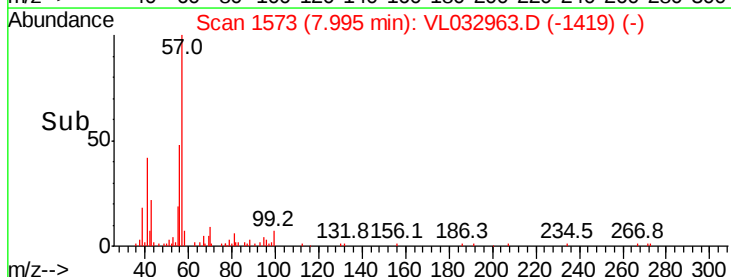
56 69.2 24.6 37.0#

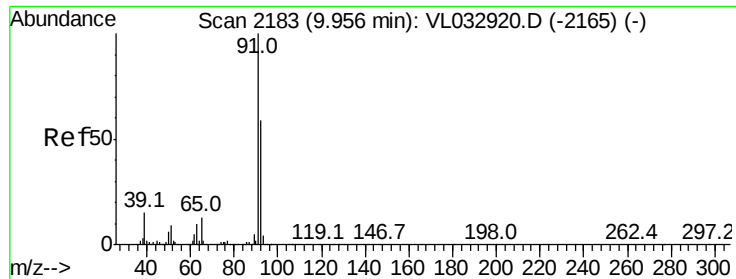


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 0.848 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Instrument :

MSVOA_L

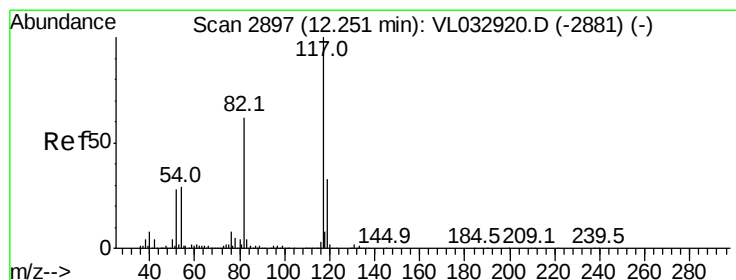
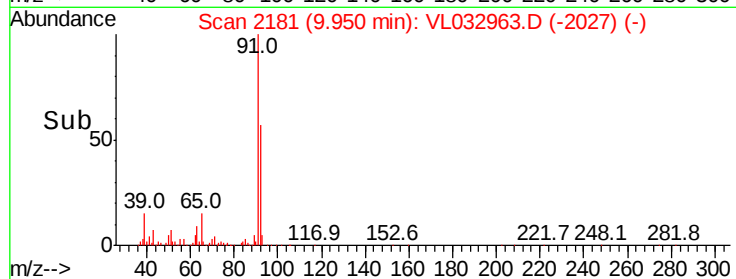
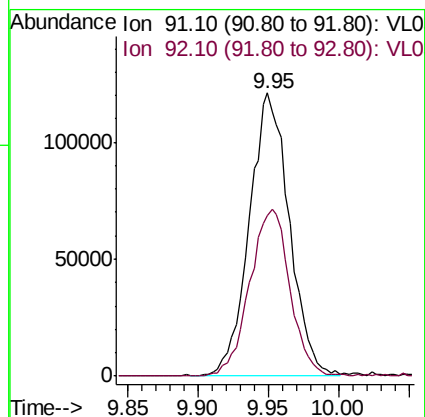
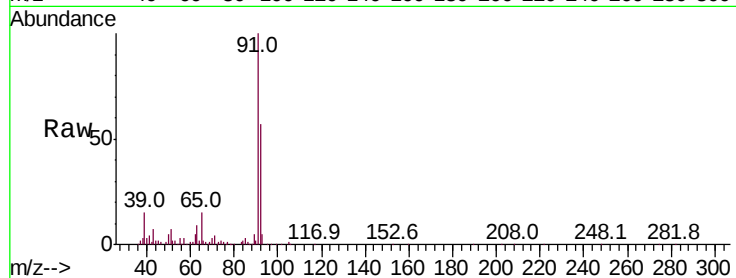
ClientSampled :

Tot Ion: 91 Resp: 240119

Ion Ratio Lower Upper

91 100

92 59.3 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: VL032963.D

Acq: 11 Dec 2018 20:38

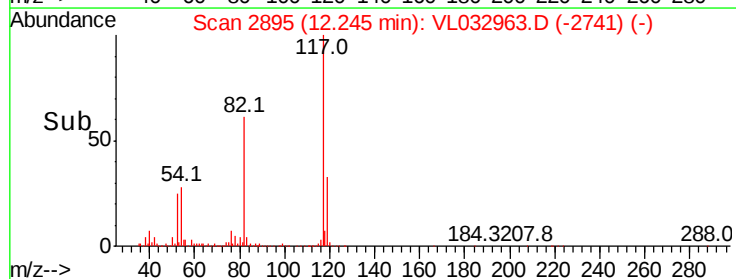
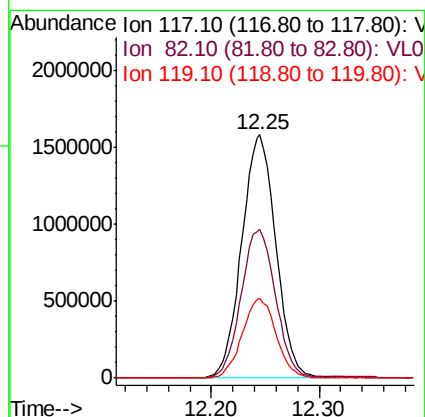
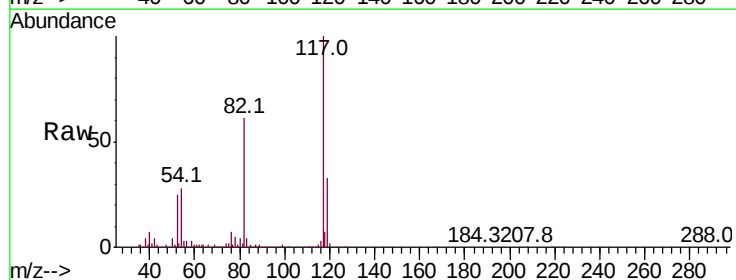
Tgt Ion: 117 Resp: 3486595

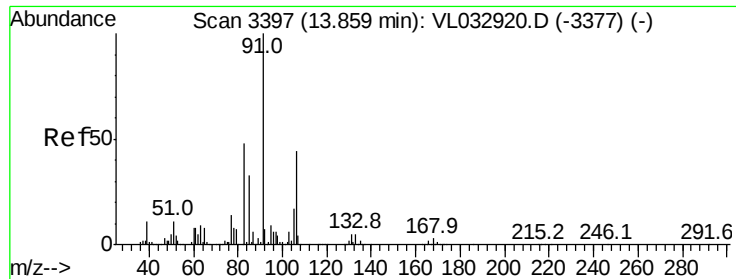
Ion Ratio Lower Upper

117 100

82 62.0 47.8 71.8

119 32.7 43.1 64.7#

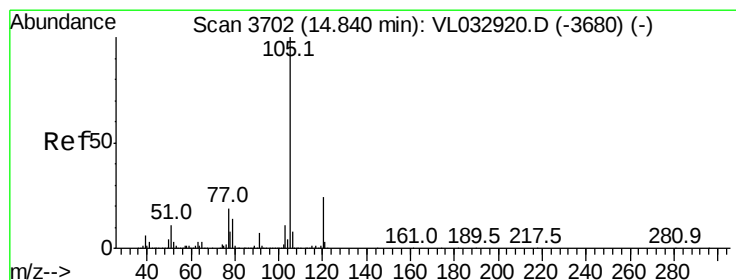
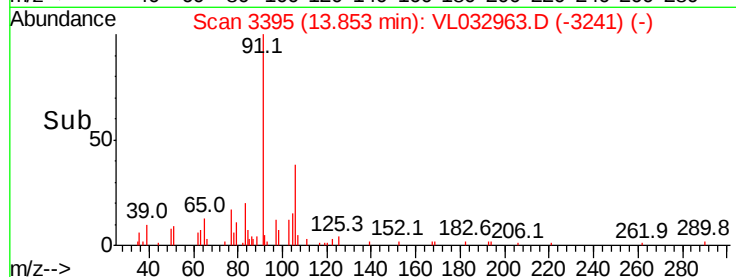
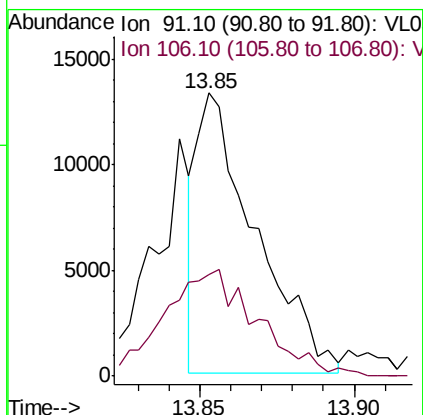
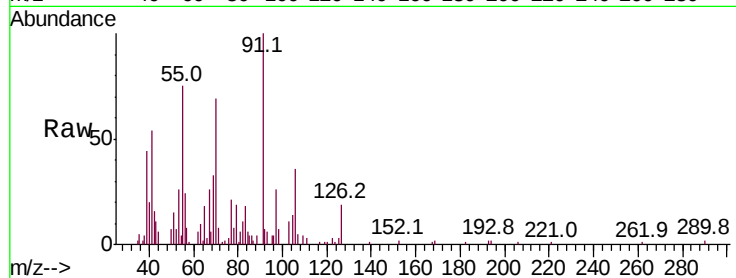




#60
o-Xylene
Concen: 0.051 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.01 min
Lab File: VL032963.D
Acq: 11 Dec 2018 20:38

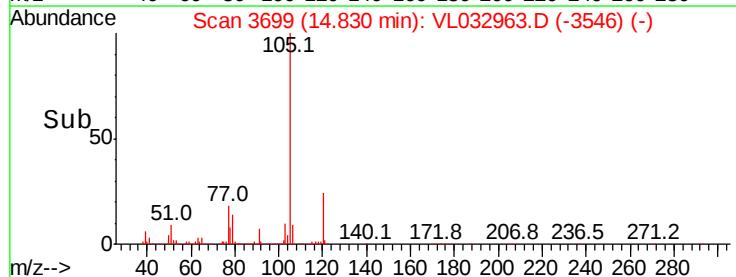
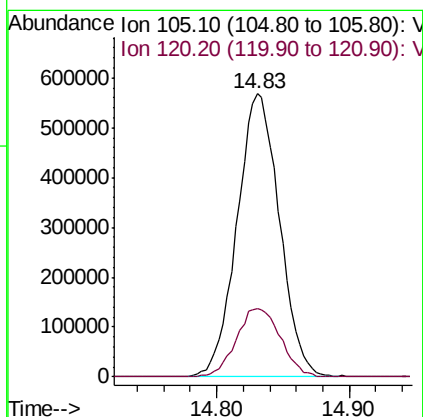
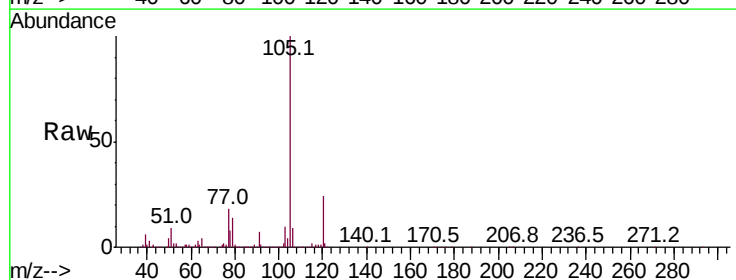
Instrument :
MSVOA_L
ClientSampleId :

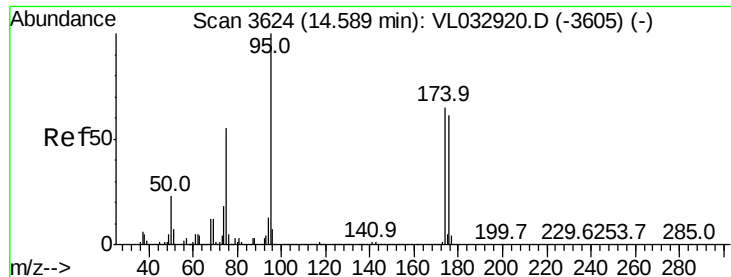
Tot Ion: 91 Resp: 17387
Ion Ratio Lower Upper
91 100
106 63.4 21.9 65.8



#62
Isopropylbenzene
Concen: 2.647 ppbv
RT: 14.83 min Scan# 3699
Delta R.T. -0.01 min
Lab File: VL032963.D
Acq: 11 Dec 2018 20:38

Tgt Ion:105 Resp: 1257808
Ion Ratio Lower Upper
105 100
120 25.4 20.3 30.5





#68

1-Bromo-4-Fluorobenzene

Concen: 10.684 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL032963.D

Acq: 11 Dec 2018 20:38

Instrument :

MSVOA_L

ClientSampleId :

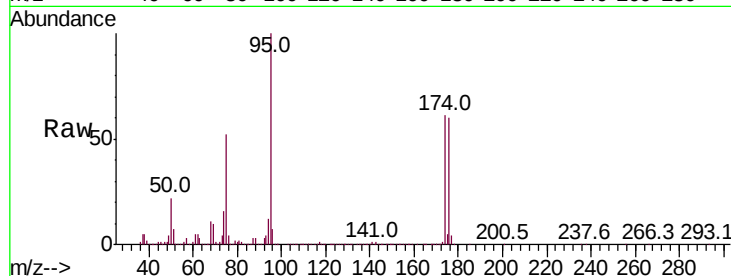
Tot Ion: 95 Resp: 2752165

Ion Ratio Lower Upper

95 100

174 65.8 51.4 77.0

175 5.1 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

