

Data File : VL032949.D
Acq On : 8 Dec 2018 00:21
Operator : SY/AP
Sample : J6262-03DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Quant Time: Dec 08 02:04:34 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	1351710	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3456384	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3194612	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 2488688 10.54 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 105.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.02	51	44206	0.432	ppbv #	79
4) Chloromethane	3.17	50	8696	0.146	ppbv #	75
9) Propene	3.04	41	1718	0.042	ppbv #	15
13) Ethanol	3.67	45	19505	1.400	ppbv	97
15) Acetone	3.92	43	180726	1.558	ppbv	98
19) Isopropyl Alcohol	4.06	45	4100	0.056	ppbv #	95
20) Methylene Chloride	4.41	84	17204	0.303	ppbv	86
22) trans-1,2-Dichloroethene	4.97	96	32307	0.458	ppbv	94
25) Ethyl Acetate	5.78	43	13455	0.049	ppbv #	81
26) Hexane	5.78	57	32405	0.256	ppbv #	45
27) Carbon Disulfide	4.62	76	10701	0.068	ppbv #	41
29) Chloroform	5.84	83	15685	0.069	ppbv	85
30) Cyclohexane	7.28	84	4541	0.043	ppbv #	1
31) cis-1,2-Dichloroethene	5.64	61	466582	4.018	ppbv	99
38) Trichloroethene	7.96	130	3279962	31.002	ppbv	98
39) 1,2-Dichloropropane	7.29	63	849685	8.813	ppbv #	20
52) Tetrachloroethene	11.44	164	34944836	377.886	ppbv	87
53) Toluene	9.95	91	25123	0.093	ppbv	98
74) 1,2,4-Trimethylbenzene	16.94	105	13315	0.035	ppbv #	64

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

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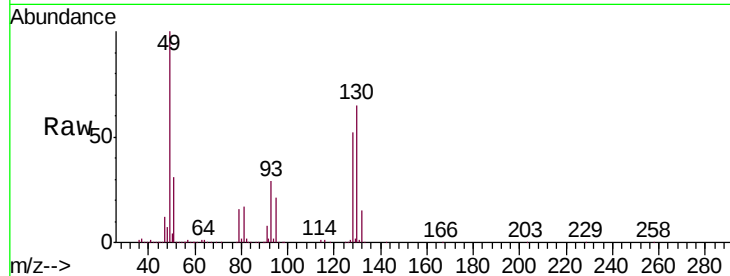
Tgt Ion: 49 Resp: 1351710

Ion Ratio Lower Upper

49 100

128 52.8 26.3 78.8

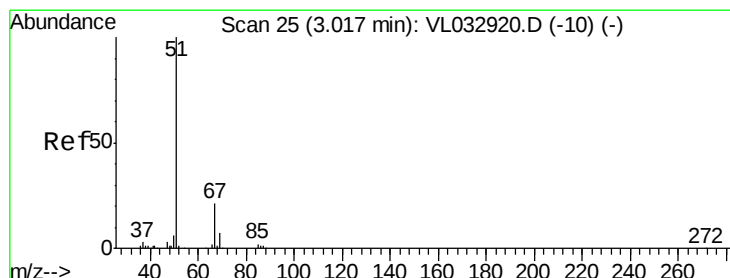
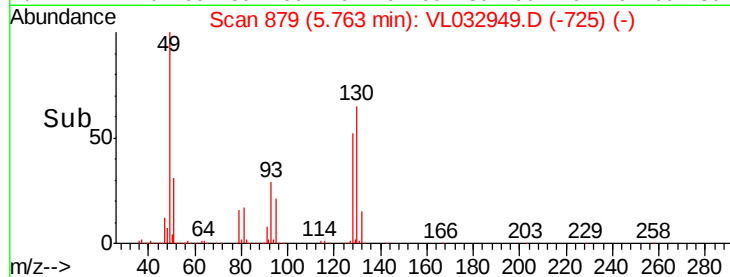
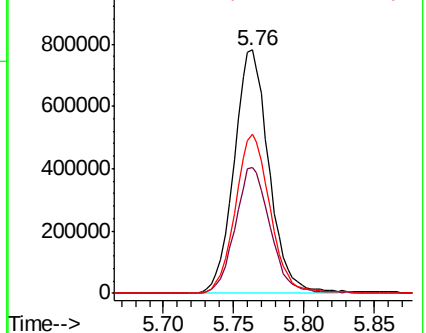
130 66.0 33.9 101.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.432 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032949.D

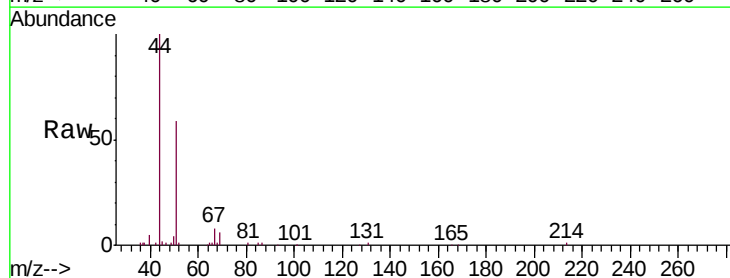
Acq: 8 Dec 2018 00:21

Tgt Ion: 51 Resp: 44206

Ion Ratio Lower Upper

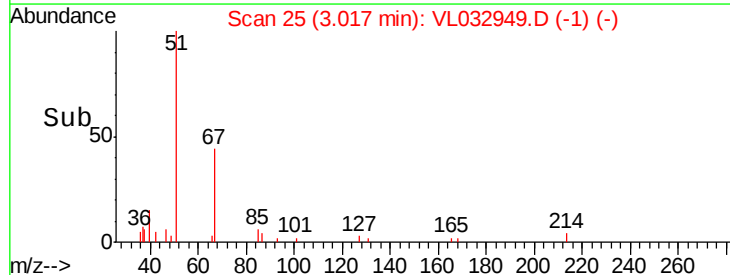
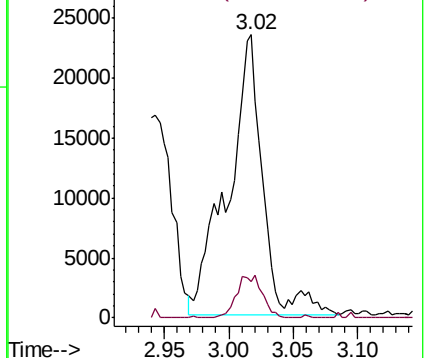
51 100

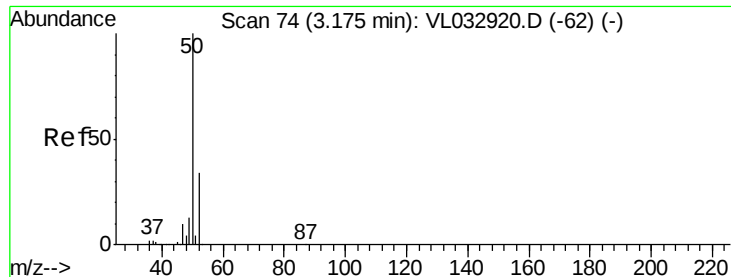
67 11.1 16.8 25.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.146 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL032949.D

Acq: 8 Dec 2018 00:21

Instrument :

MSVOA_L

ClientSampleId :

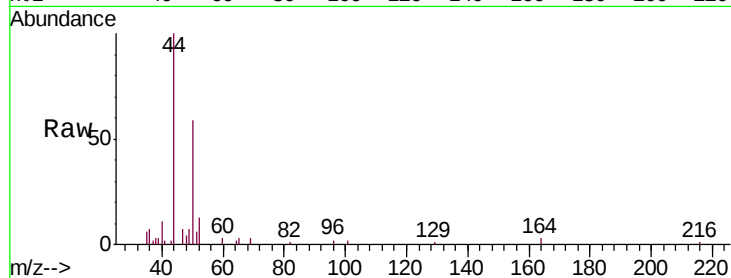
SV1DL

Tgt Ion: 50 Resp: 8696

Ion Ratio Lower Upper

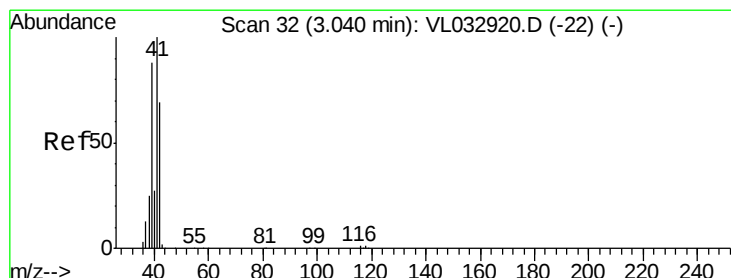
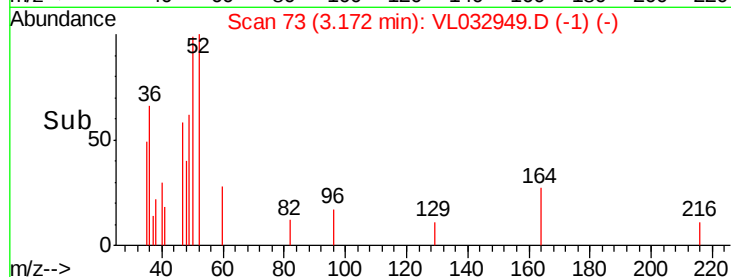
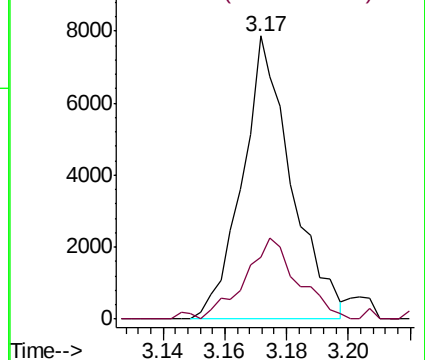
50 100

52 20.0 27.3 40.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.042 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL032949.D

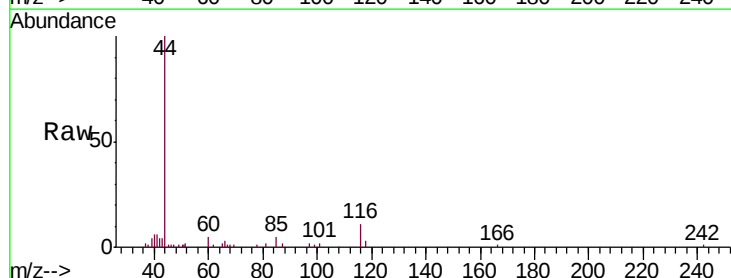
Acq: 8 Dec 2018 00:21

Tgt Ion: 41 Resp: 1718

Ion Ratio Lower Upper

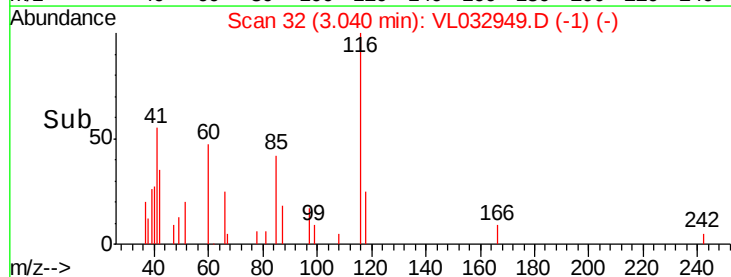
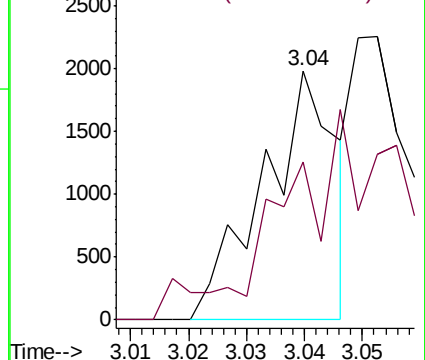
41 100

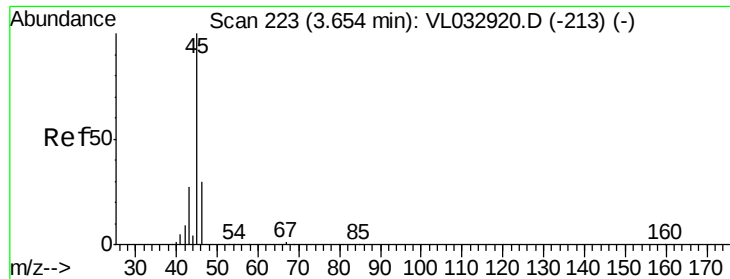
42 0.0 56.2 84.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

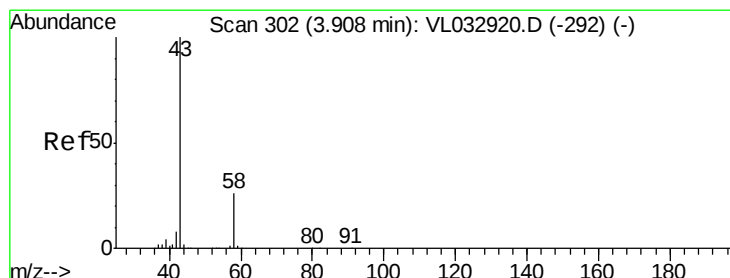
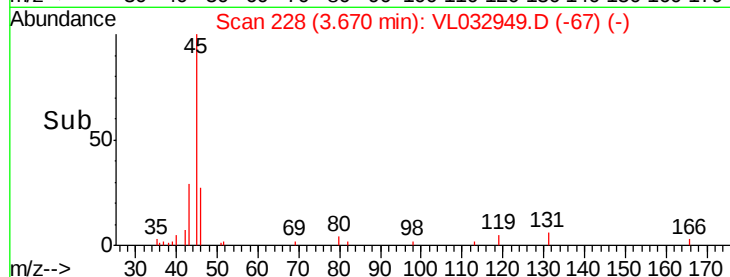
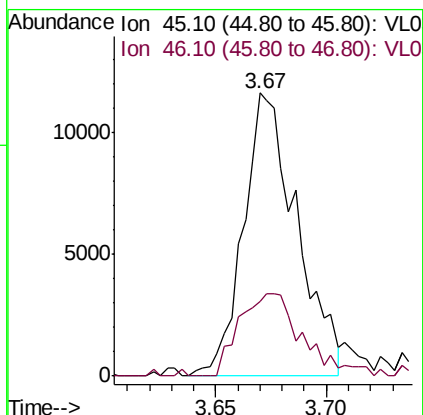
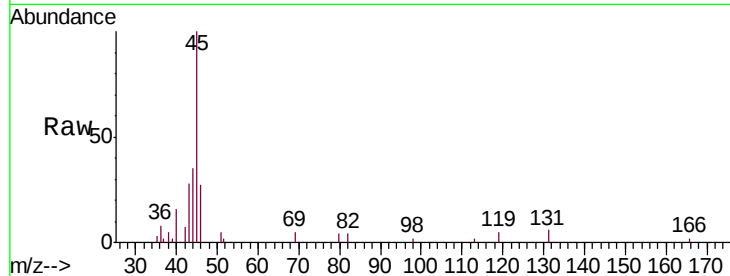




#13
Ethanol
Concen: 1.400 ppbv
RT: 3.67 min Scan# 228
Delta R.T. 0.02 min
Lab File: VL032949.D
Acq: 8 Dec 2018 00:21

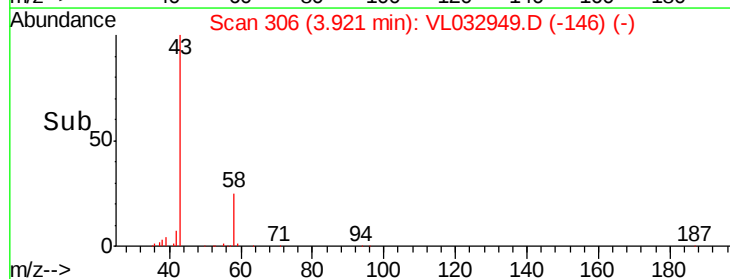
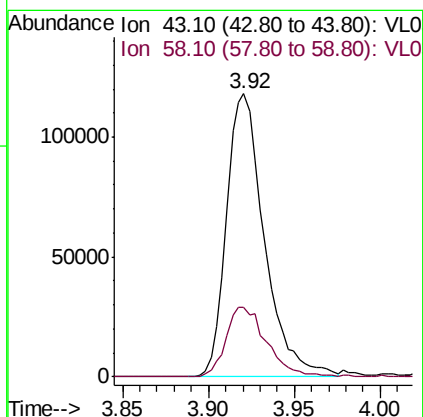
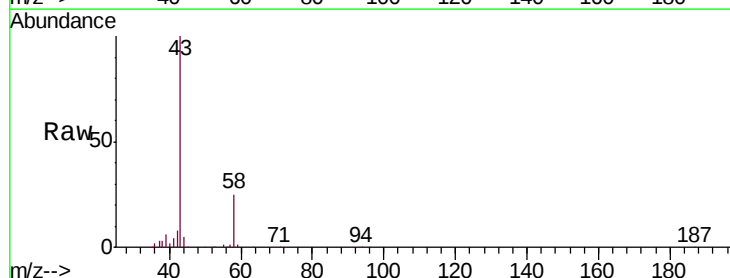
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

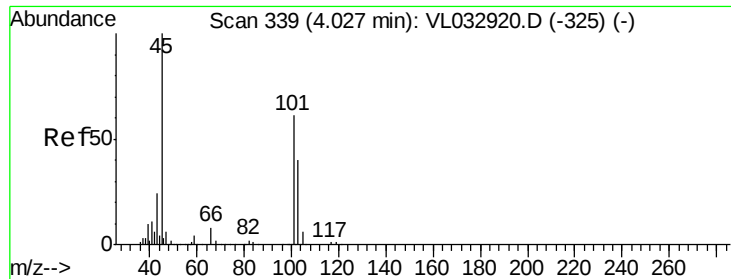
Tgt Ion: 45 Resp: 19505
Ion Ratio Lower Upper
45 100
46 36.4 13.8 55.4



#15
Acetone
Concen: 1.558 ppbv
RT: 3.92 min Scan# 306
Delta R.T. 0.01 min
Lab File: VL032949.D
Acq: 8 Dec 2018 00:21

Tgt Ion: 43 Resp: 180726
Ion Ratio Lower Upper
43 100
58 26.6 20.6 30.8





#19

Isopropyl Alcohol

Concen: 0.056 ppbv

RT: 4.06 min Scan# 348

Delta R.T. 0.03 min

Lab File: VL032949.D

Acq: 8 Dec 2018 00:21

Instrument :

MSVOA_L

ClientSampleId :

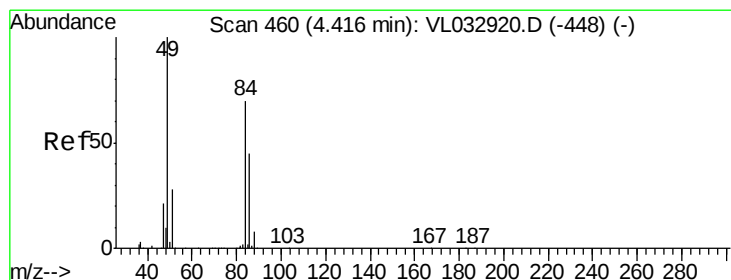
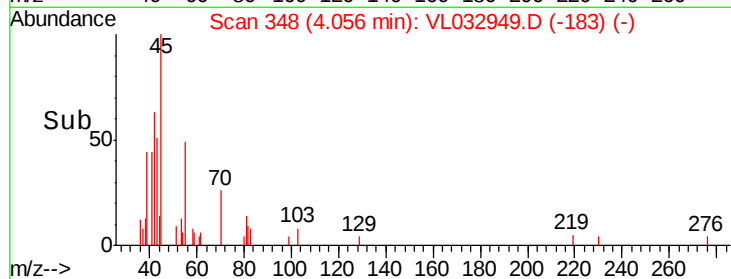
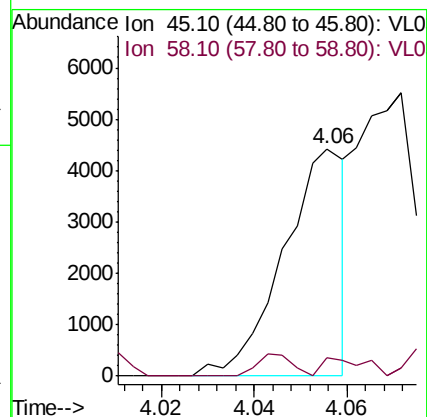
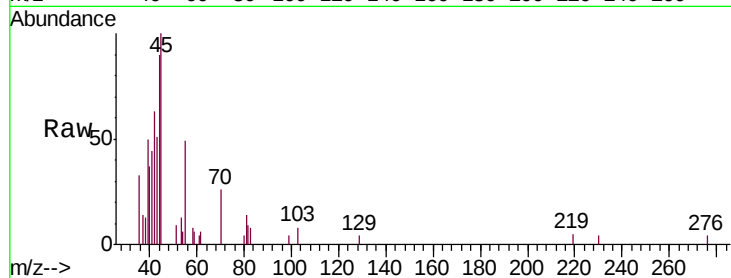
SV1DL

Tgt Ion: 45 Resp: 4100

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



#20

Methylene Chloride

Concen: 0.303 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032949.D

Acq: 8 Dec 2018 00:21

Tgt Ion: 84 Resp: 17204

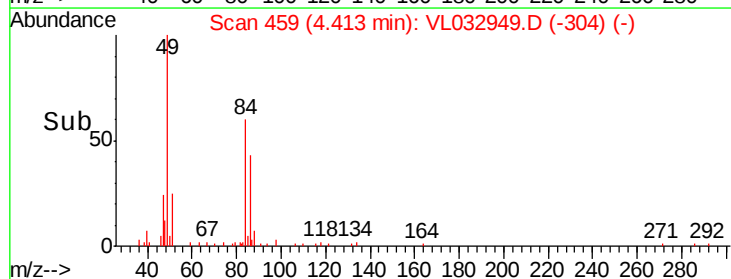
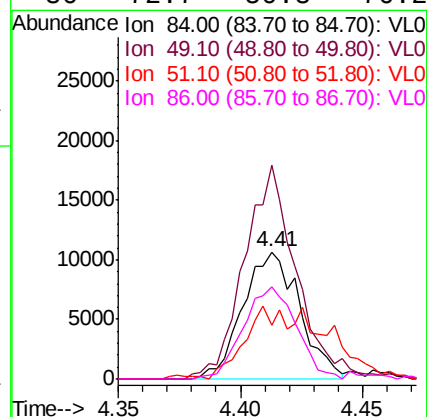
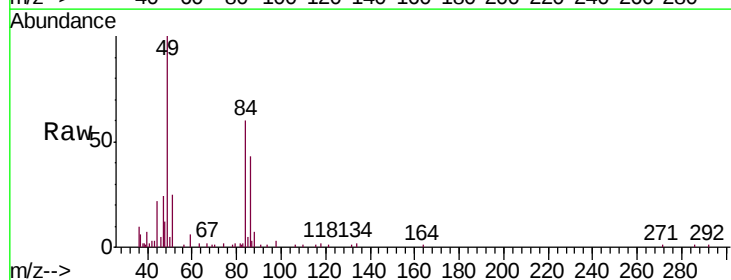
Ion Ratio Lower Upper

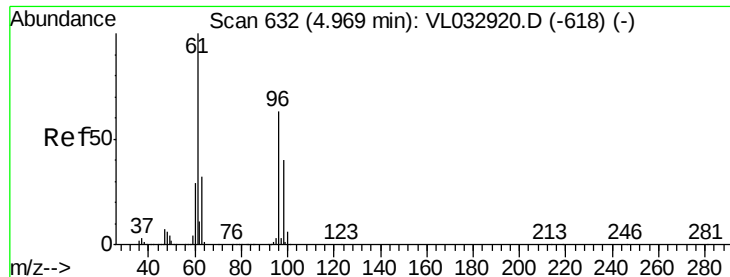
84 100

49 164.2 113.8 170.8

51 40.3 31.8 47.8

86 72.7 50.8 76.2





#22

trans-1,2-Dichloroethene

Concen: 0.458 ppbv

RT: 4.97 min Scan# 631

Delta R.T. -0.00 min

Lab File: VL032949.D

Acq: 8 Dec 2018 00:21

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

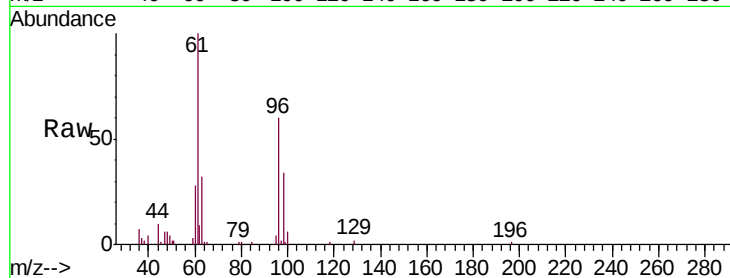
Tgt Ion: 96 Resp: 32307

Ion Ratio Lower Upper

96 100

61 165.4 127.1 190.7

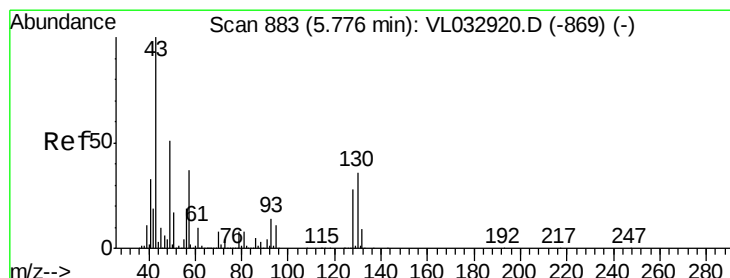
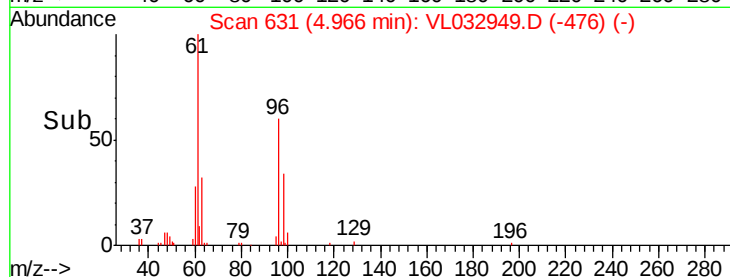
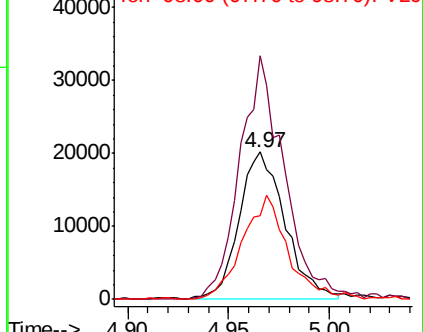
98 56.8 51.3 76.9



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#25

Ethyl Acetate

Concen: 0.049 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.01 min

Lab File: VL032949.D

Acq: 8 Dec 2018 00:21

Tgt Ion: 43 Resp: 13455

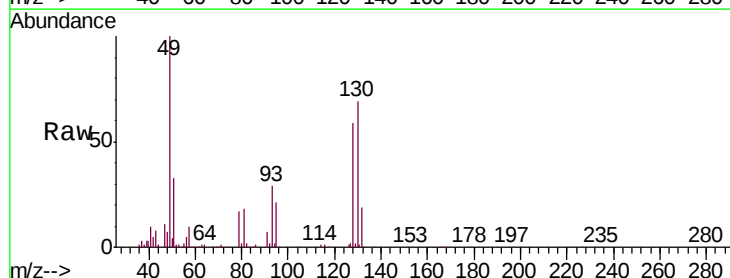
Ion Ratio Lower Upper

43 100

45 5.3 7.8 11.6#

61 0.0 7.4 11.2#

70 0.0 5.7 8.5#

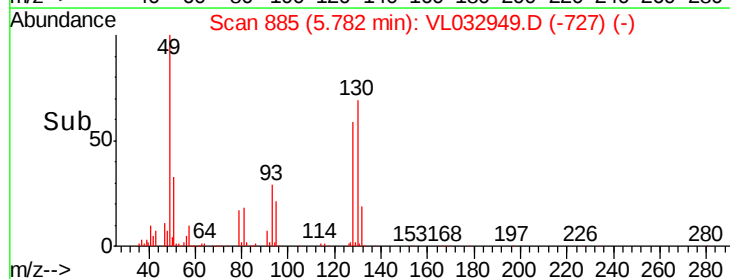
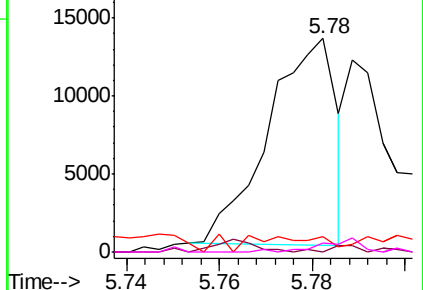


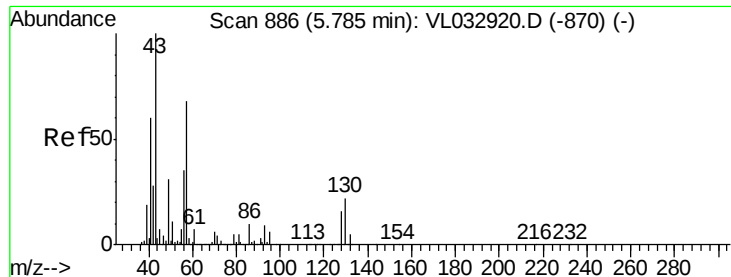
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

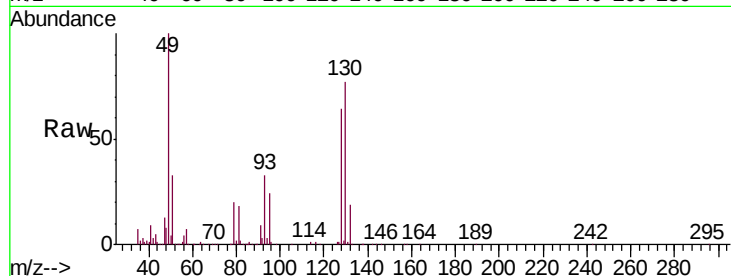




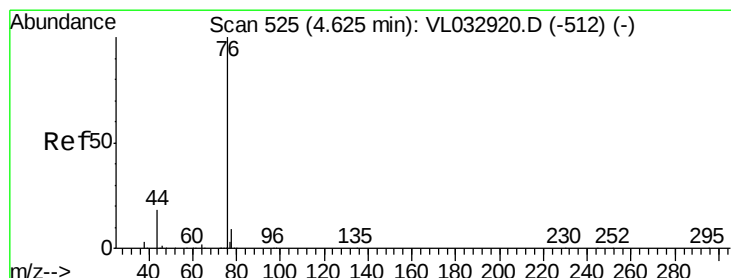
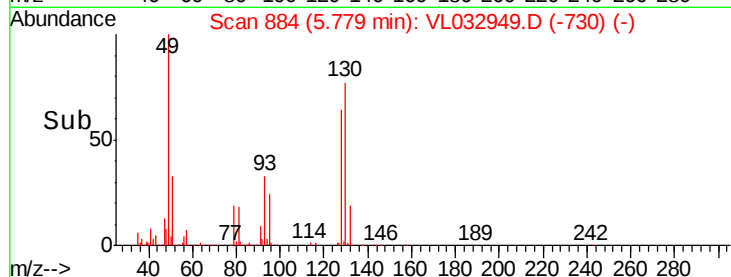
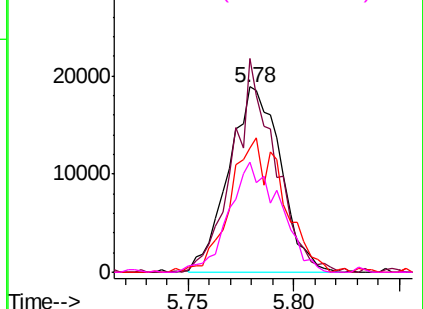
#26
Hexane
Concen: 0.256 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.01 min
Lab File: VL032949.D
Acq: 8 Dec 2018 00:21

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 57 Resp: 32405
Ion Ratio Lower Upper
57 100
41 94.5 72.2 108.2
43 74.8 171.9 257.9#
56 58.5 42.2 63.2

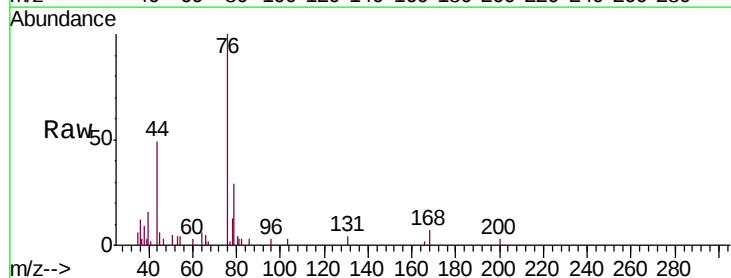


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

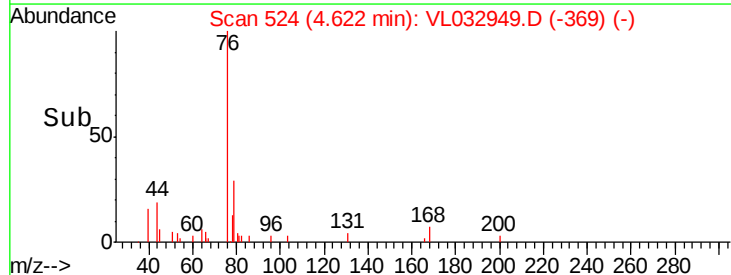
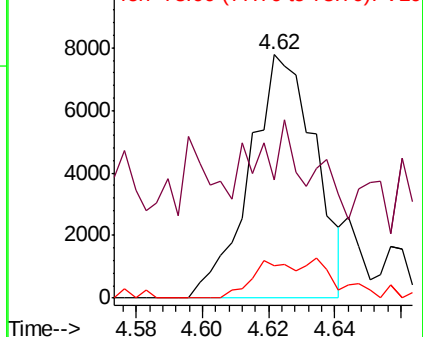


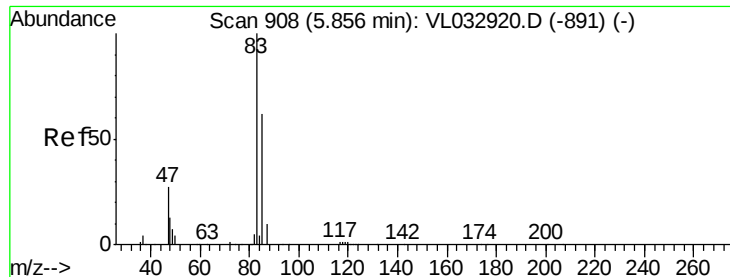
#27
Carbon Disulfide
Concen: 0.068 ppbv
RT: 4.62 min Scan# 524
Delta R.T. -0.00 min
Lab File: VL032949.D
Acq: 8 Dec 2018 00:21

Tgt Ion: 76 Resp: 10701
Ion Ratio Lower Upper
76 100
44 52.5 14.7 22.1#
78 0.0 7.4 11.2#



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





#29

Chloroform

Concen: 0.069 ppbv

RT: 5.84 min Scan# 904

Delta R.T. -0.01 min

Lab File: VL032949.D

Acq: 8 Dec 2018 00:21

Instrument :

MSVOA_L

ClientSampleId :

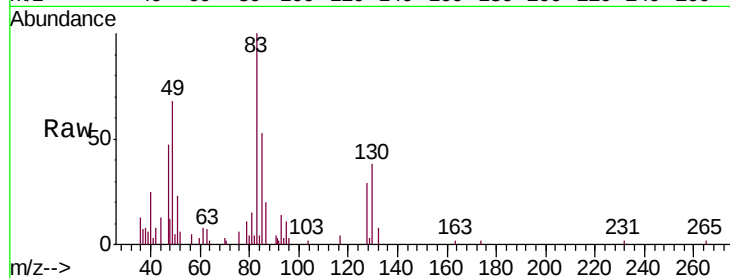
SV1DL

Tgt Ion: 83 Resp: 15685

Ion Ratio Lower Upper

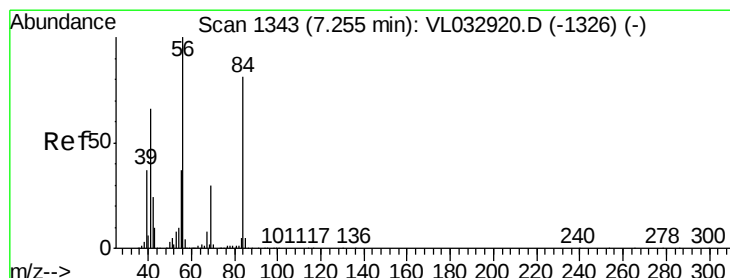
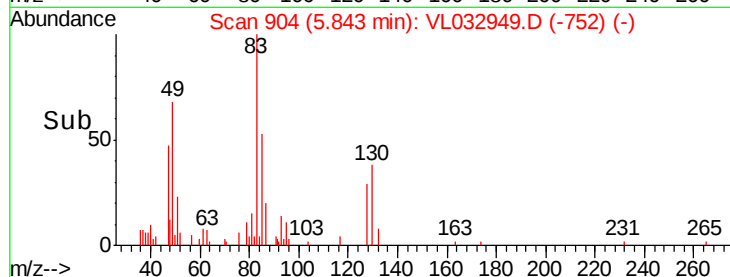
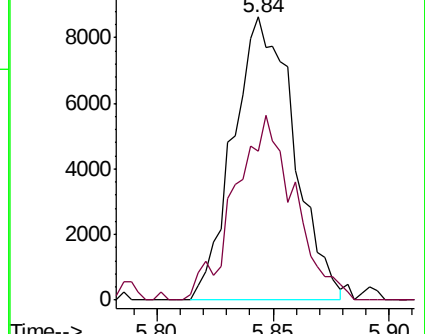
83 100

85 50.7 49.8 74.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.043 ppbv

RT: 7.28 min Scan# 1350

Delta R.T. 0.02 min

Lab File: VL032949.D

Acq: 8 Dec 2018 00:21

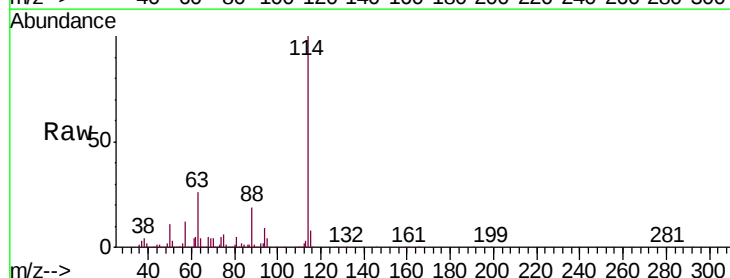
Tgt Ion: 84 Resp: 4541

Ion Ratio Lower Upper

84 100

56 0.0 102.5 153.7#

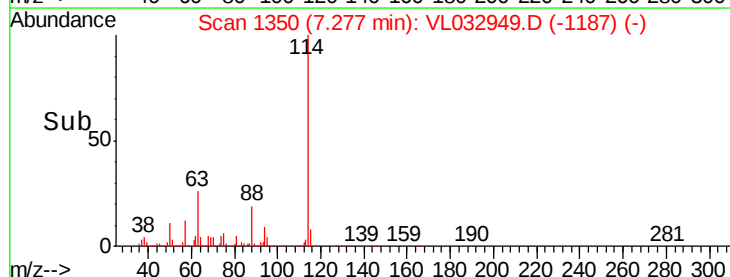
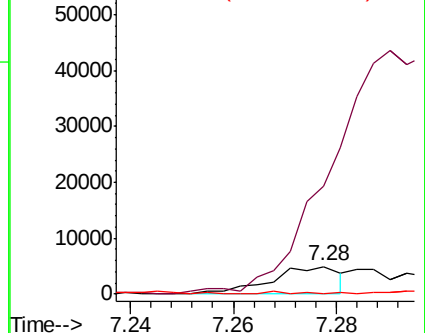
41 9.2 64.1 96.1#

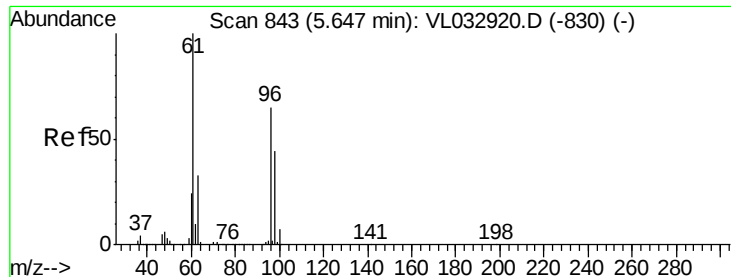


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



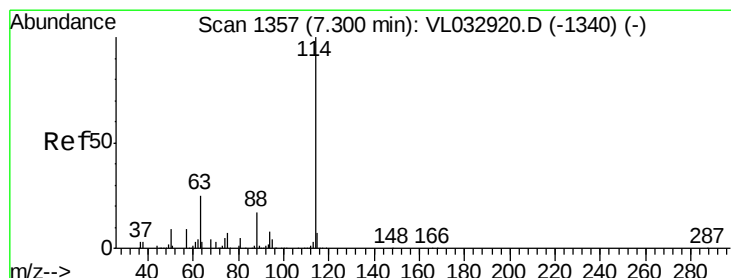
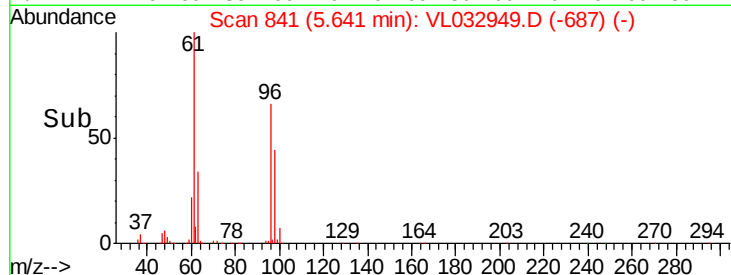
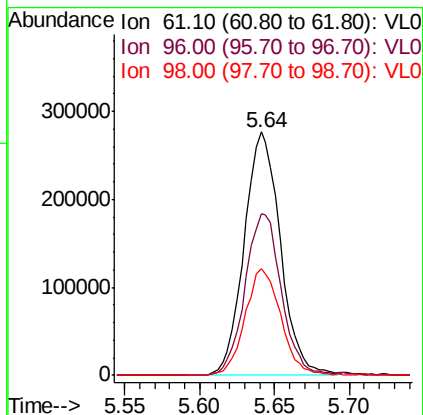
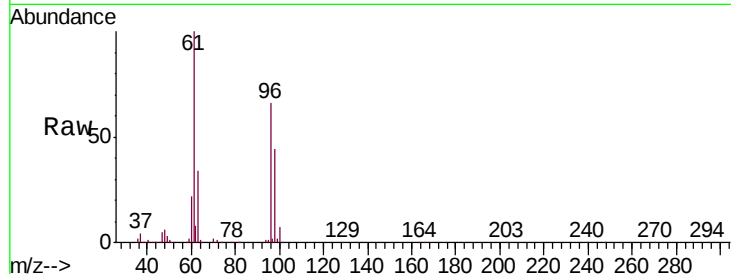


#31

cis-1,2-Dichloroethene
 Concen: 4.018 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.01 min
 Lab File: VL032949.D
 Acq: 8 Dec 2018 00:21

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

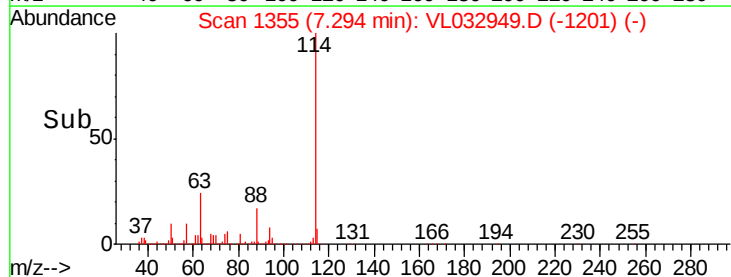
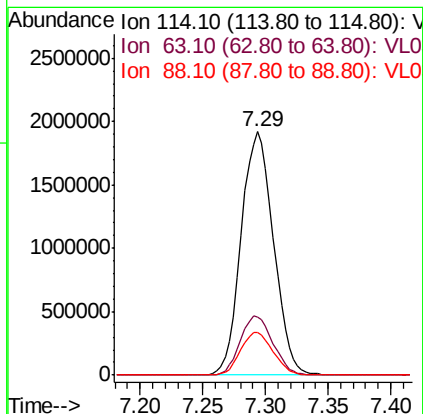
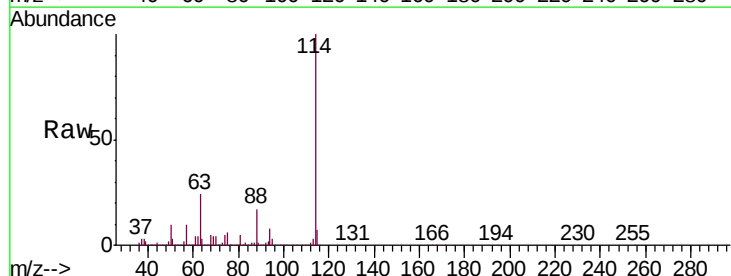
Tgt Ion: 61 Resp: 466582
 Ion Ratio Lower Upper
 61 100
 96 65.9 51.9 77.9
 98 43.7 35.0 52.4

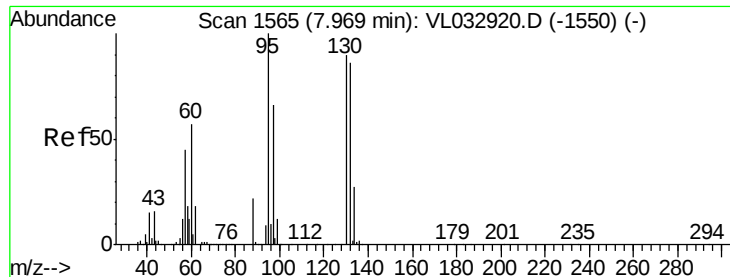


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL032949.D
 Acq: 8 Dec 2018 00:21

Tgt Ion: 114 Resp: 3456384
 Ion Ratio Lower Upper
 114 100
 63 24.7 20.1 30.1
 88 17.7 14.2 21.4





#38

Trichloroethene

Concen: 31.002 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VL032949.D

Acq: 8 Dec 2018 00:21

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion:130 Resp: 3279962

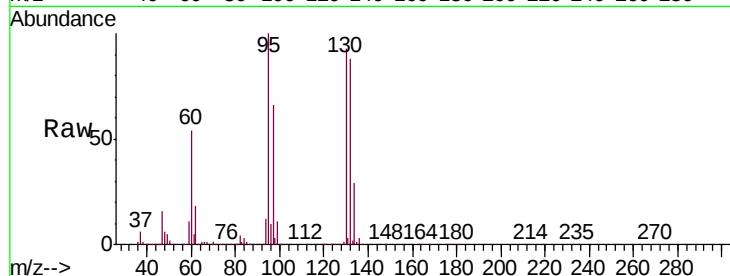
Ion Ratio Lower Upper

130 100

95 108.0 88.6 132.8

132 95.4 76.1 114.1

97 71.2 58.0 87.0

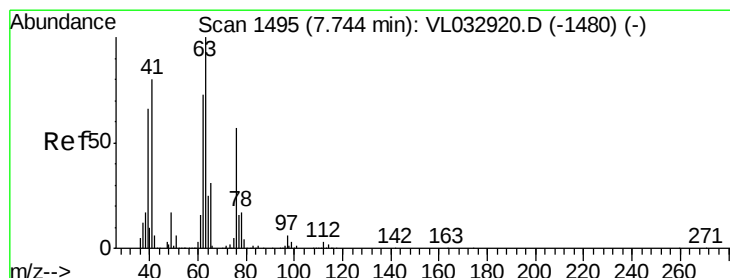
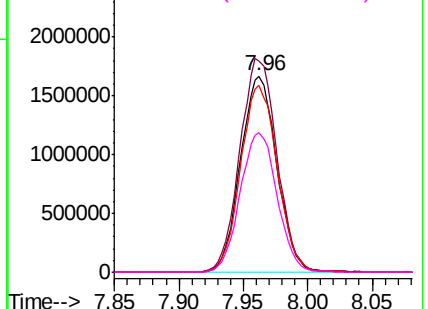
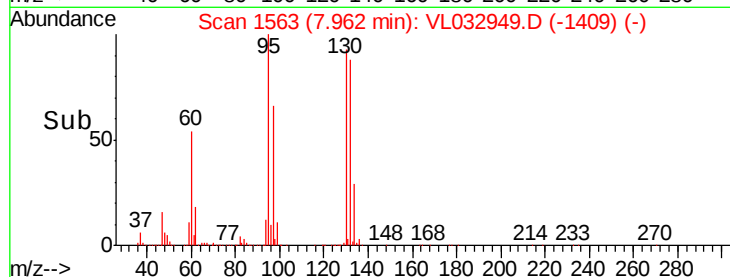


Abundance Ion 130.00 (129.70 to 130.70): V

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: 8.813 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.45 min

Lab File: VL032949.D

Acq: 8 Dec 2018 00:21

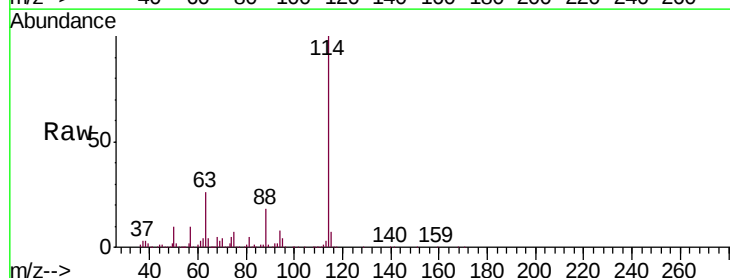
Tgt Ion: 63 Resp: 849685

Ion Ratio Lower Upper

63 100

41 0.0 63.9 95.9#

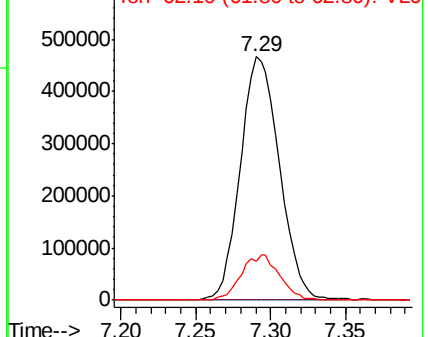
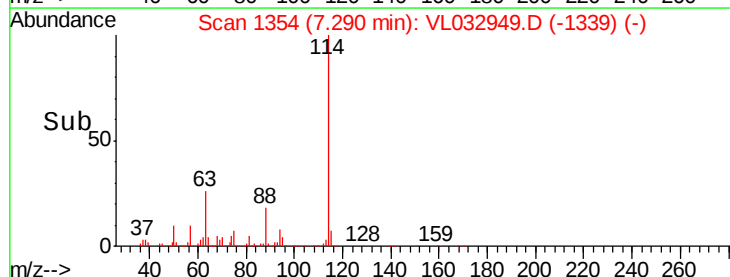
62 15.9 58.8 88.2#

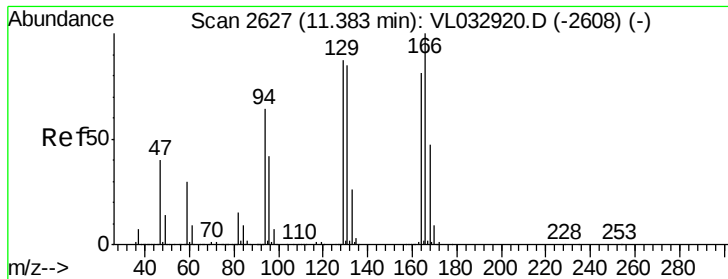


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 377.886 ppbv

RT: 11.44 min Scan# 2644

Delta R.T. 0.05 min

Lab File: VL032949.D

Acq: 8 Dec 2018 00:21

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion:164 Resp:34944836

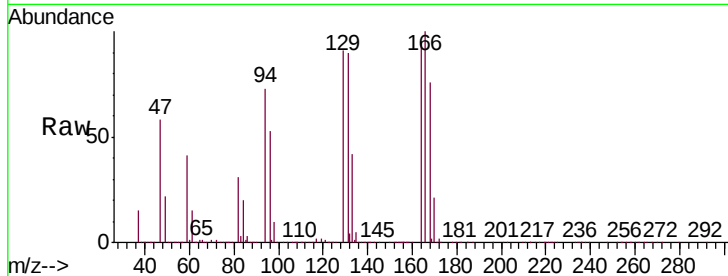
Ion Ratio Lower Upper

164 100

166 104.8 98.8 148.2

129 95.9 85.5 128.3

131 94.5 84.4 126.6

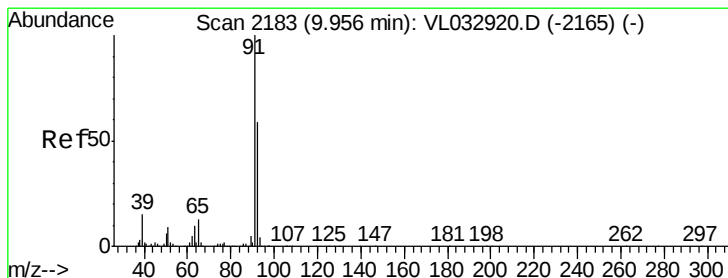
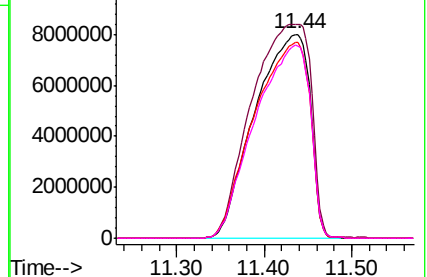
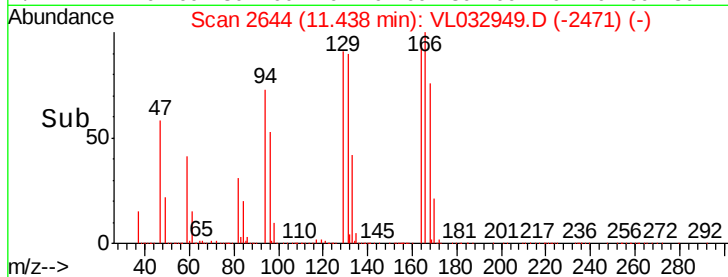


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.093 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032949.D

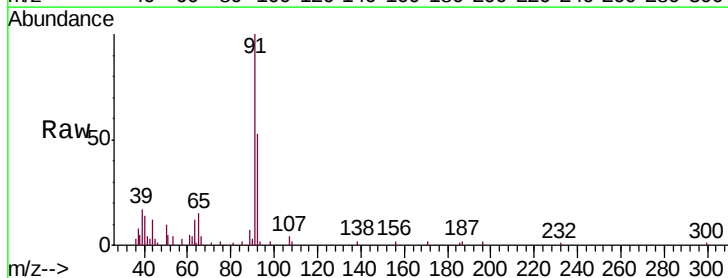
Acq: 8 Dec 2018 00:21

Tgt Ion: 91 Resp: 25123

Ion Ratio Lower Upper

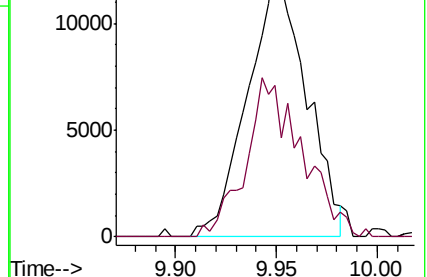
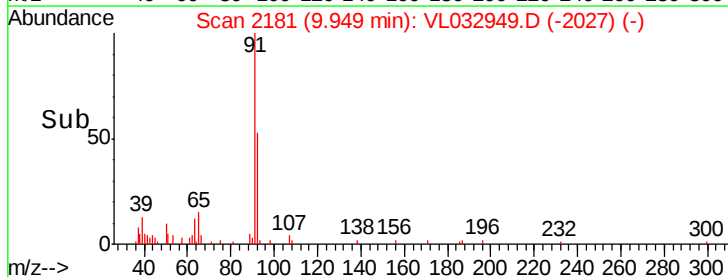
91 100

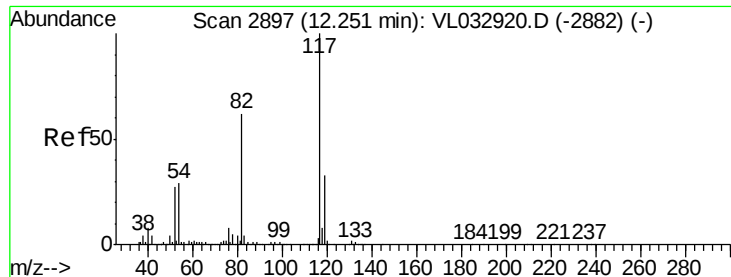
92 57.6 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2897

Delta R.T. 0.00 min

Lab File: VL032949.D

Acq: 8 Dec 2018 00:21

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

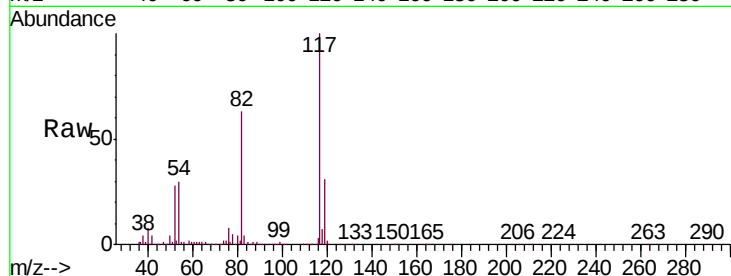
Tgt Ion:117 Resp: 3194612

Ion Ratio Lower Upper

117 100

82 64.8 47.8 71.8

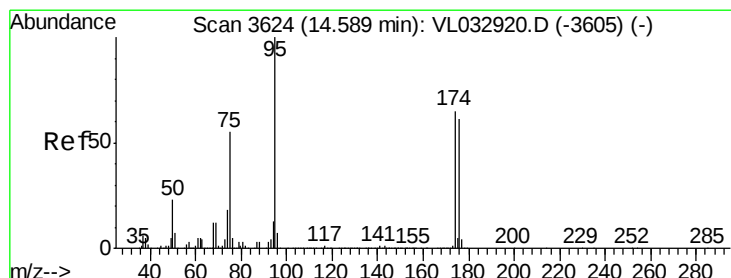
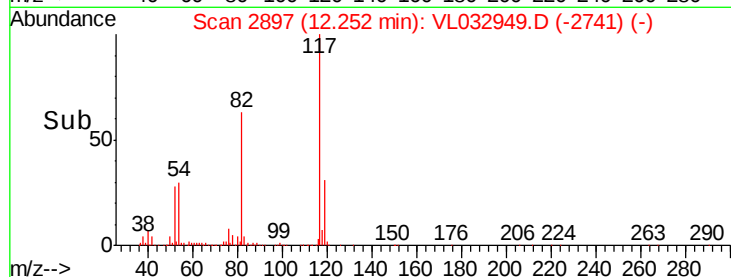
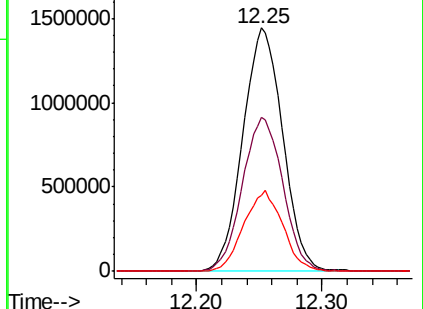
119 32.5 43.1 64.7#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.545 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032949.D

Acq: 8 Dec 2018 00:21

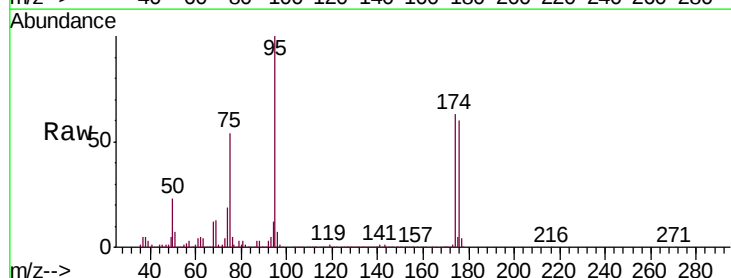
Tgt Ion: 95 Resp: 2488688

Ion Ratio Lower Upper

95 100

174 65.5 51.4 77.0

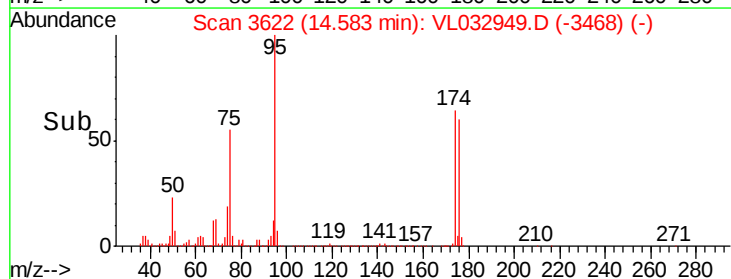
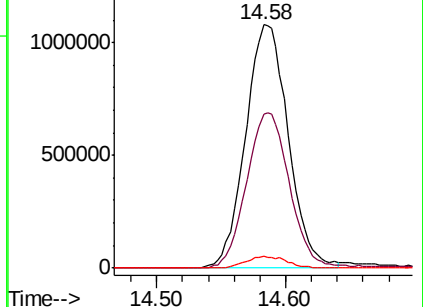
175 4.8 3.8 5.6

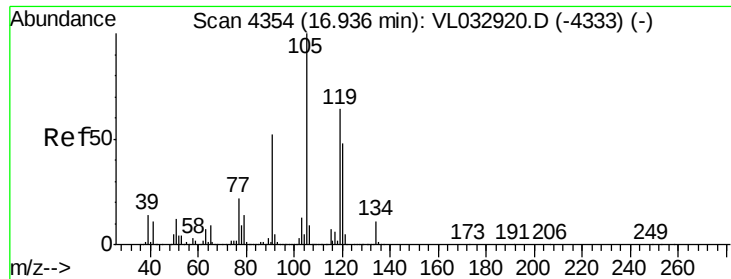


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

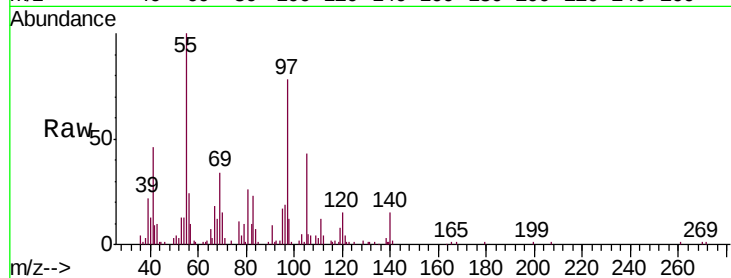




#74
 1,2,4-Trimethylbenzene
 Concen: 0.035 ppbv
 RT: 16.94 min Scan# 4355
 Delta R.T. 0.00 min
 Lab File: VL032949.D
 Acq: 8 Dec 2018 00:21

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tgt Ion:	105	Resp:	13315
Ion	Ratio	Lower	Upper
105	100		
120	33.2	38.6	58.0#
91	8.9	41.7	62.5#
77	18.8	17.4	26.2



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

