

Data File : VL033553.D
Acq On : 5 Apr 2019 4:08
Operator : SY/AP
Sample : K2226-02DL 10D
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Quant Time: Apr 05 06:45:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1308277	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3409963	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	3399140	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	2607529	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

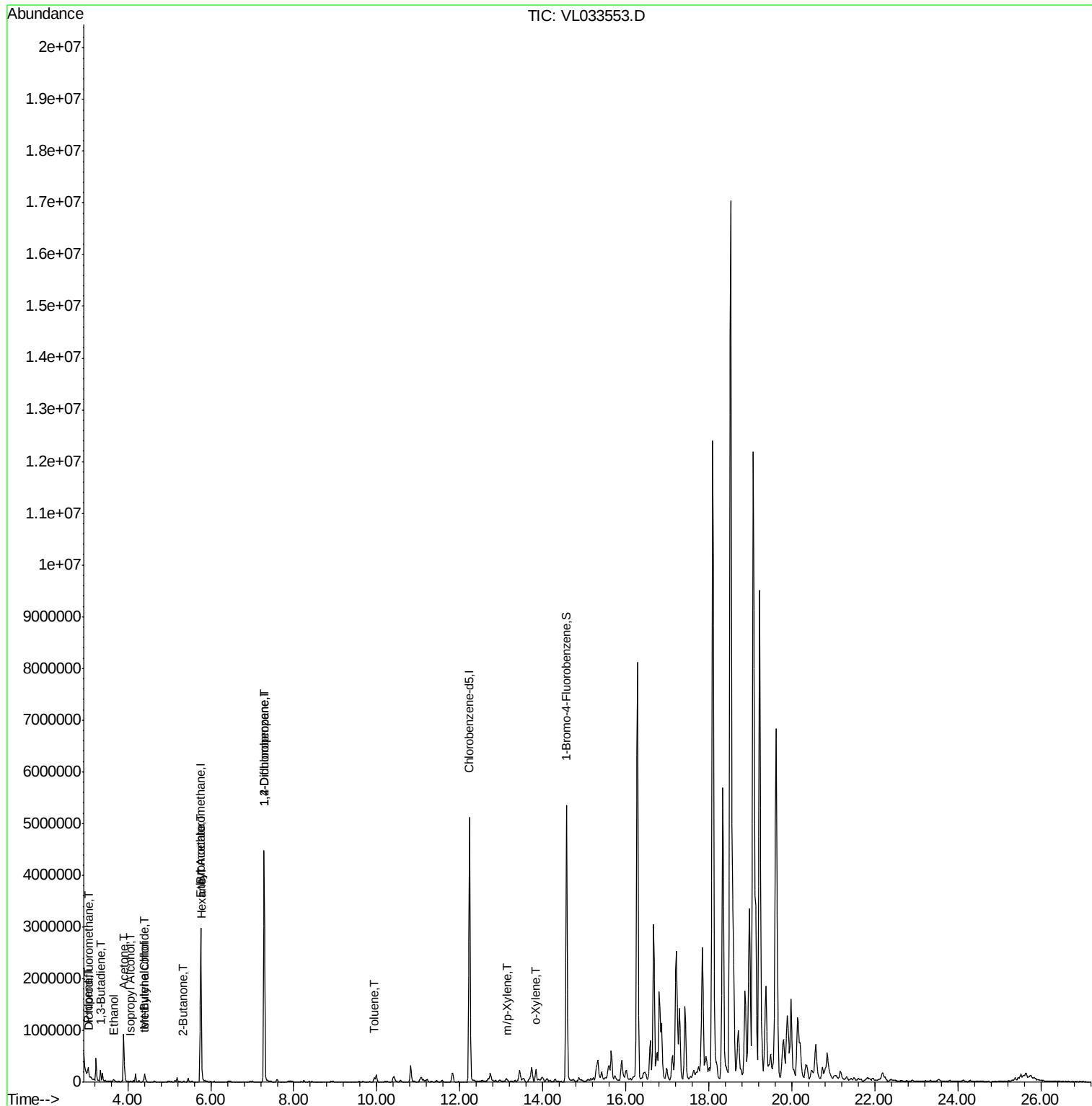
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.07	85	10887	0.057	ppbv	94
9) Propene	3.04	41	53212	0.841	ppbv	89
13) Ethanol	3.66	45	43672	2.668	ppbv	63
15) Acetone	3.90	43	958966	6.096	ppbv	98
16) 1,3-Butadiene	3.35	39	55262	0.886	ppbv #	17
17) tert-Butyl alcohol	4.39	59	19621	0.678	ppbv #	84
19) Isopropyl Alcohol	4.05	45	7465	0.075	ppbv #	95
20) Methylene Chloride	4.41	84	49746	0.745	ppbv	91
25) Ethyl Acetate	5.77	43	99779	0.342	ppbv	99
26) Hexane	5.78	57	59285	0.457	ppbv #	77
34) 2-Butanone	5.34	43	24409	0.119	ppbv	94
39) 1,2-Dichloropropane	7.28	63	814735	7.269	ppbv #	23
53) Toluene	9.94	91	65775	0.198	ppbv	99
59) m/p-Xylene	13.14	91	13867	0.034	ppbv #	100
60) o-Xylene	13.84	91	14232	0.036	ppbv #	33

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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ClientSampleId :

SV2DL

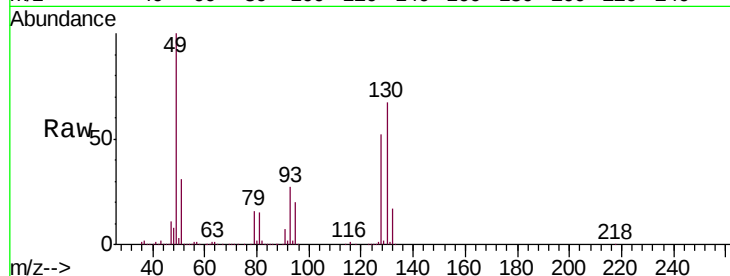
Tgt Ion: 49 Resp: 1308277

Ion Ratio Lower Upper

49 100

128 52.4 24.0 72.0

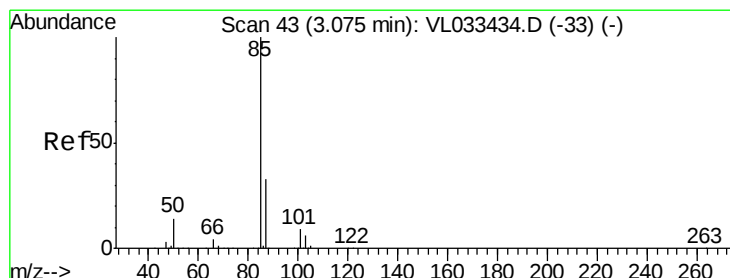
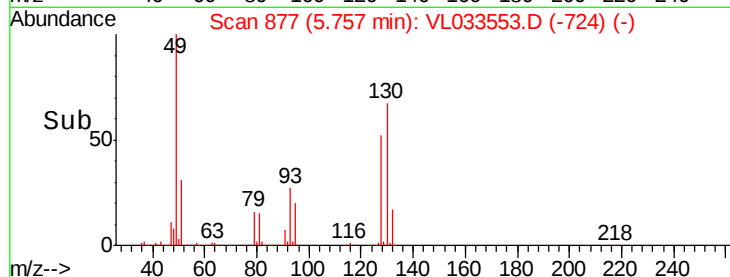
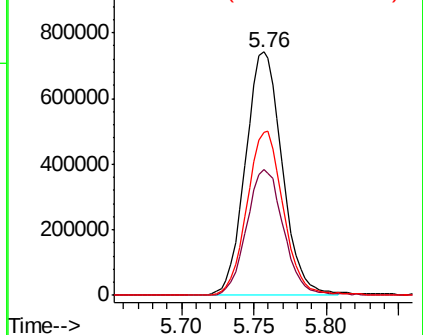
130 67.6 31.2 93.6



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: 0.057 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033553.D

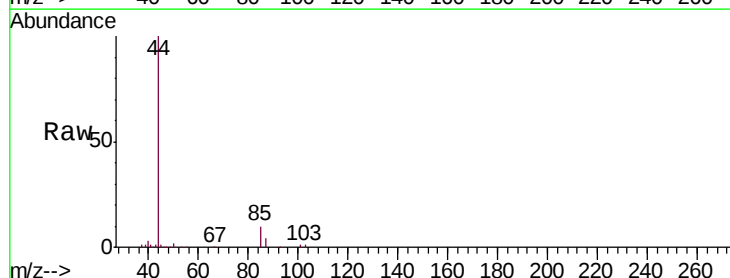
Acq: 5 Apr 2019 4:08

Tgt Ion: 85 Resp: 10887

Ion Ratio Lower Upper

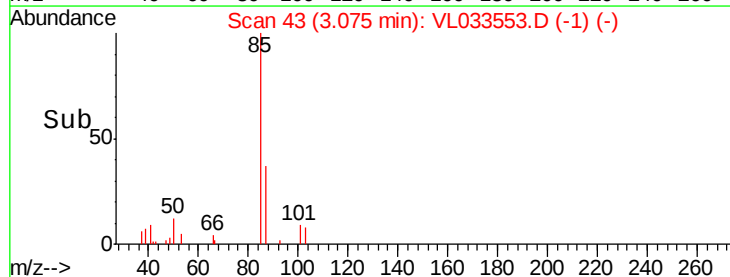
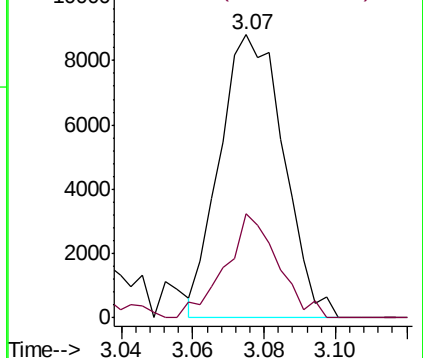
85 100

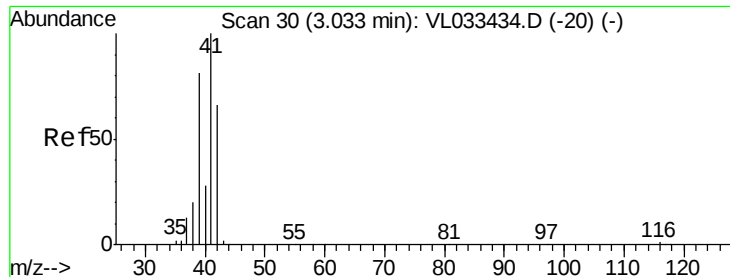
87 36.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.841 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.01 min

Lab File: VL033553.D

Acq: 5 Apr 2019 4:08

Instrument :

MSVOA_L

ClientSampleId :

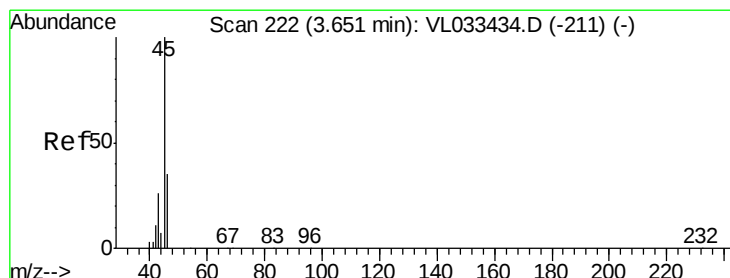
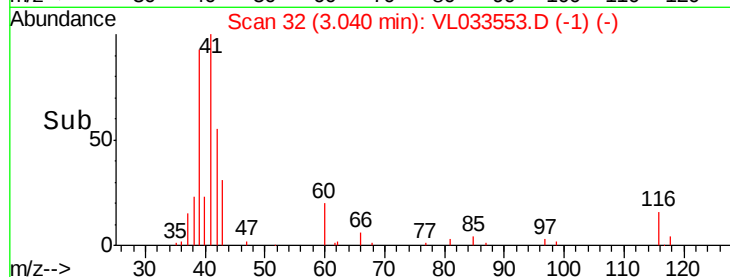
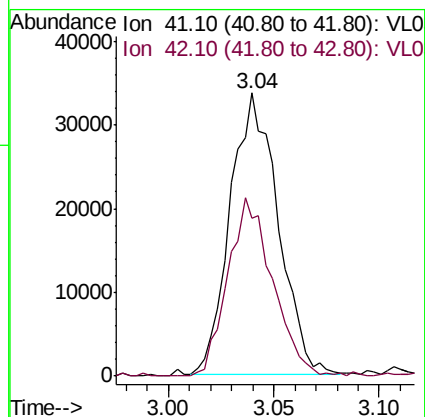
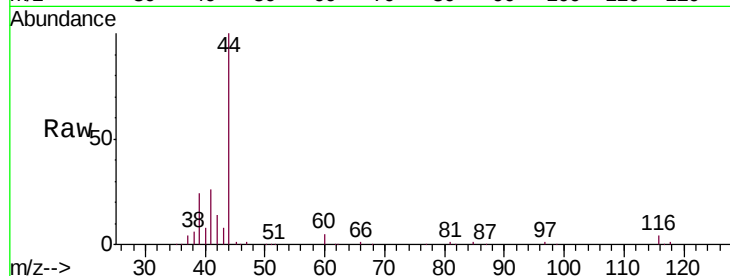
SV2DL

Tgt Ion: 41 Resp: 53212

Ion Ratio Lower Upper

41 100

42 58.8 53.9 80.9



#13

Ethanol

Concen: 2.668 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033553.D

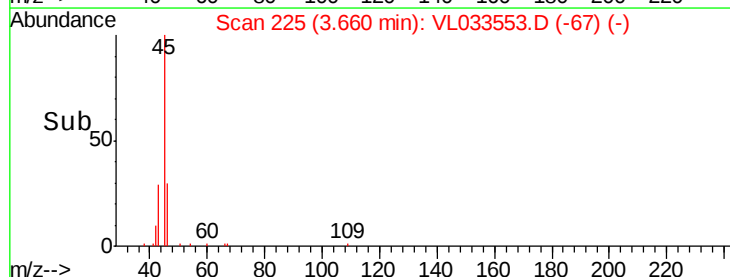
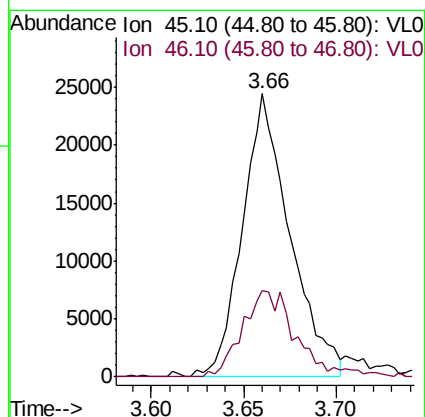
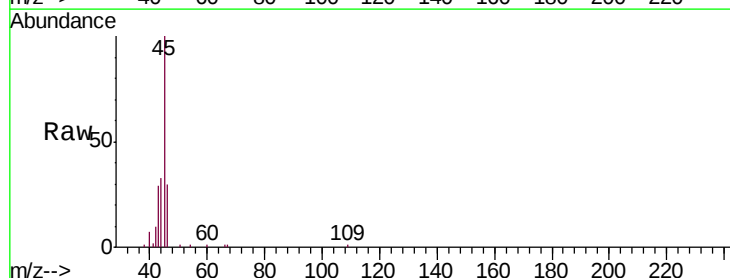
Acq: 5 Apr 2019 4:08

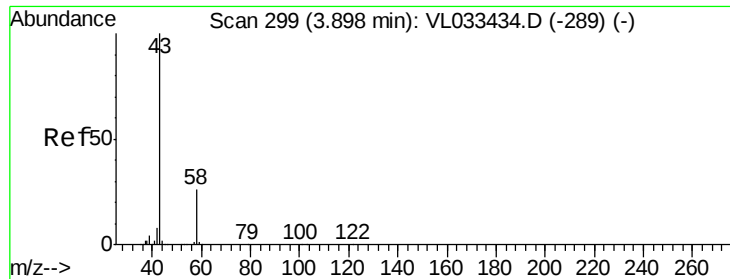
Tgt Ion: 45 Resp: 43672

Ion Ratio Lower Upper

45 100

46 34.9 25.4 101.8





#15

Acetone

Concen: 6.096 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033553.D

Acq: 5 Apr 2019 4:08

Instrument :

MSVOA_L

ClientSampleId :

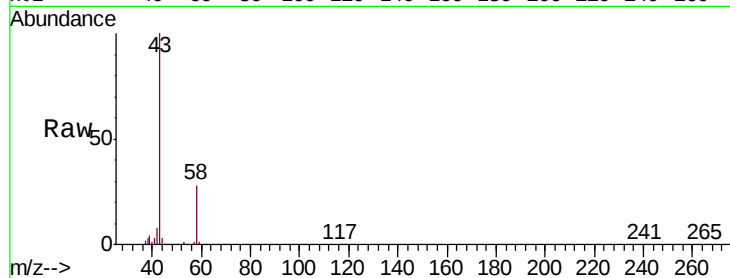
SV2DL

Tgt Ion: 43 Resp: 958966

Ion Ratio Lower Upper

43 100

58 26.8 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

600000

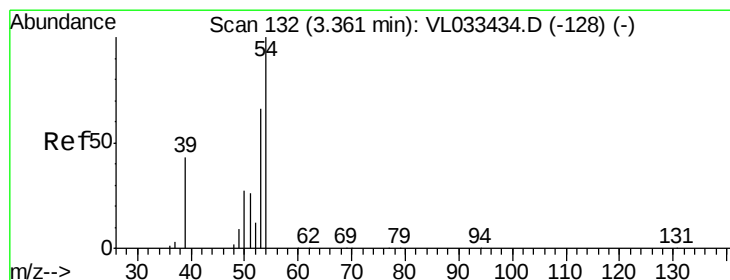
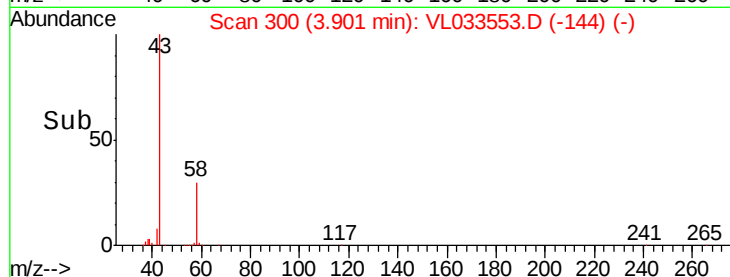
400000

200000

0

3.85 3.90 3.95 4.00

Time-->



#16

1,3-Butadiene

Concen: 0.886 ppbv

RT: 3.35 min Scan# 128

Delta R.T. -0.01 min

Lab File: VL033553.D

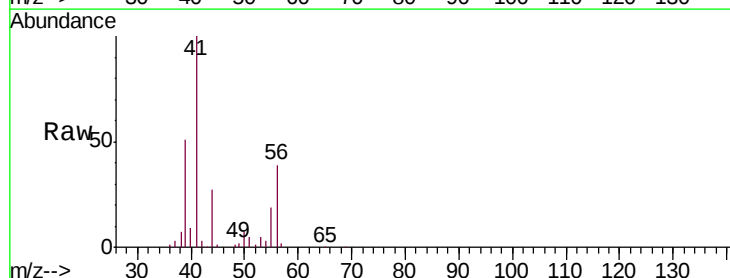
Acq: 5 Apr 2019 4:08

Tgt Ion: 39 Resp: 55262

Ion Ratio Lower Upper

39 100

54 9.9 69.4 104.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

40000

30000

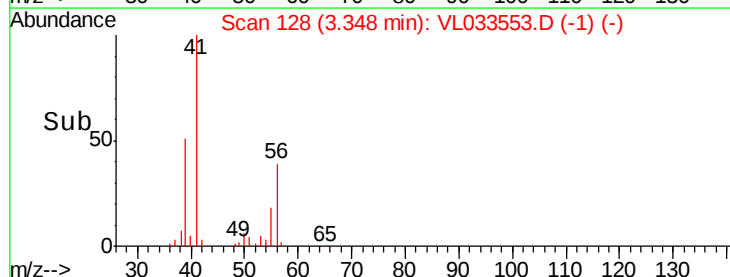
20000

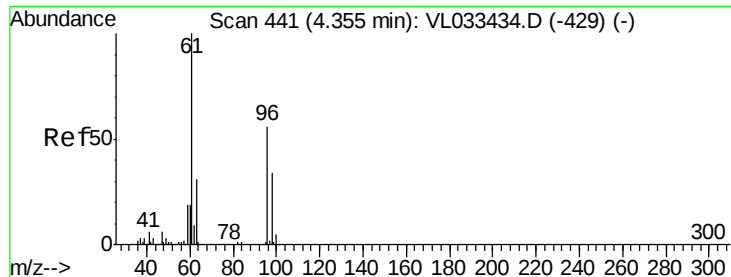
10000

0

3.30 3.35

Time-->





#17

tert-Butyl alcohol

Concen: 0.678 ppbv

RT: 4.39 min Scan# 451

Delta R.T. 0.03 min

Lab File: VL033553.D

Acq: 5 Apr 2019 4:08

Instrument :

MSVOA_L

ClientSampleId :

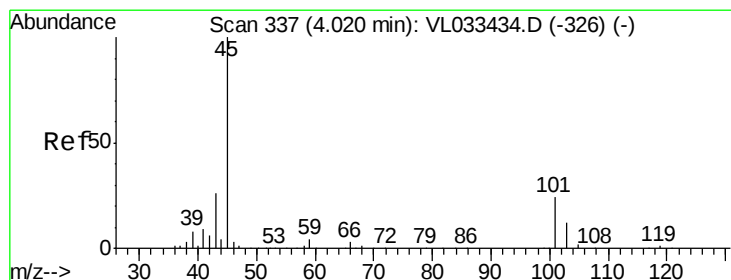
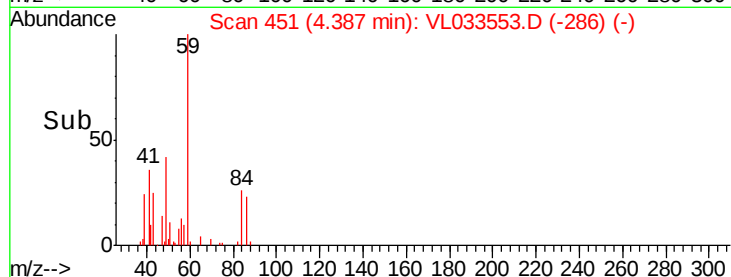
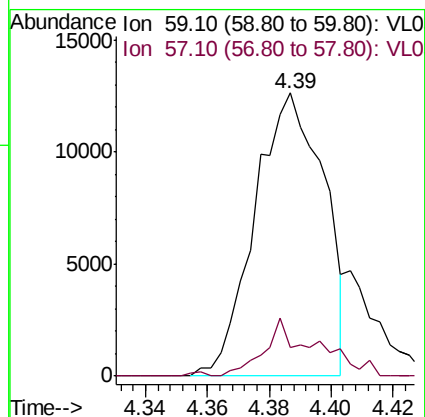
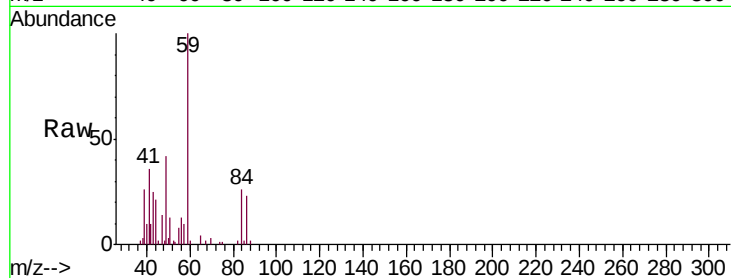
SV2DL

Tgt Ion: 59 Resp: 19621

Ion Ratio Lower Upper

59 100

57 15.6 7.8 11.8#



#19

Isopropyl Alcohol

Concen: 0.075 ppbv

RT: 4.05 min Scan# 346

Delta R.T. 0.03 min

Lab File: VL033553.D

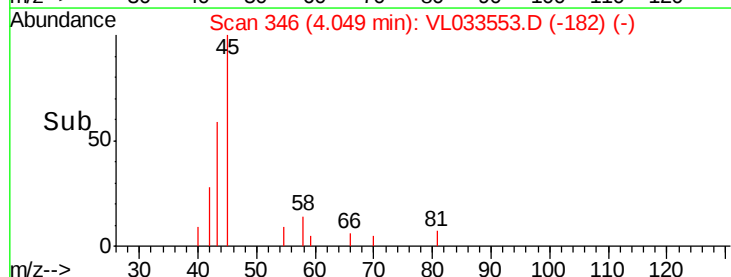
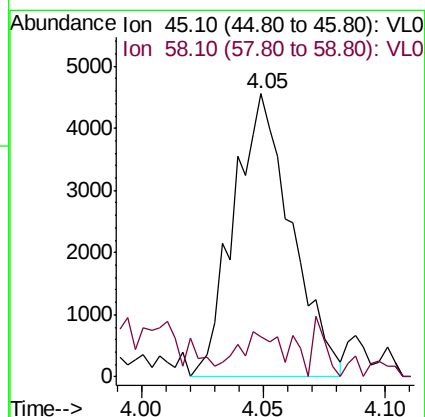
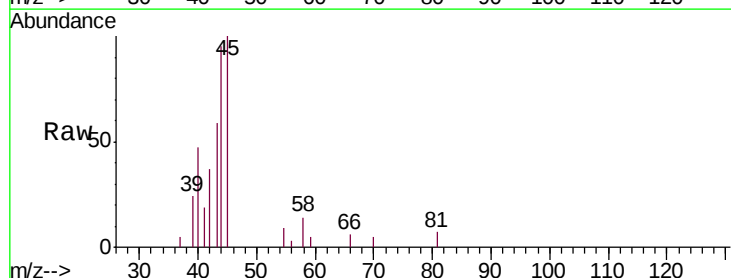
Acq: 5 Apr 2019 4:08

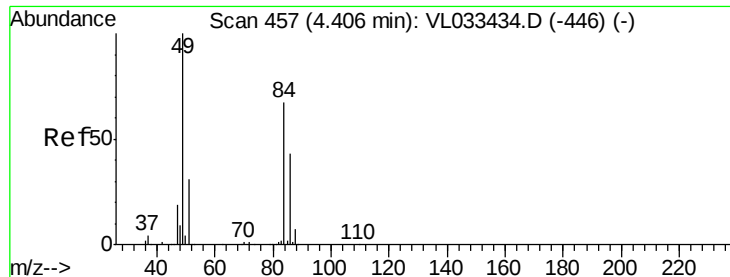
Tgt Ion: 45 Resp: 7465

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#

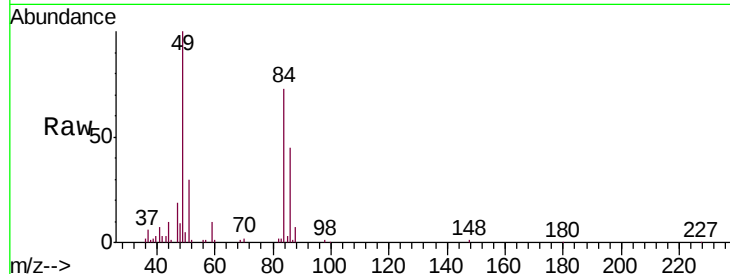




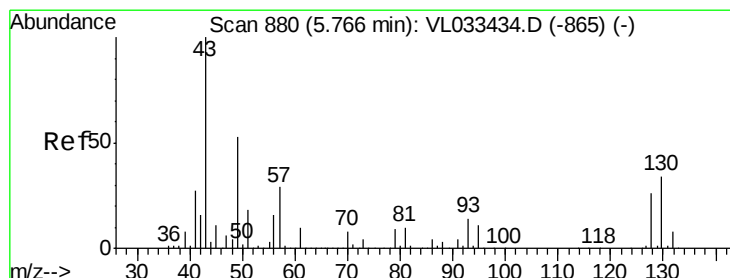
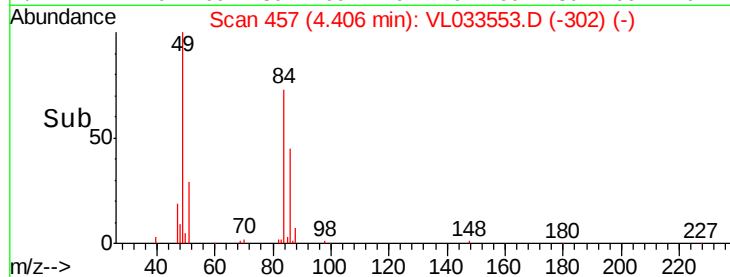
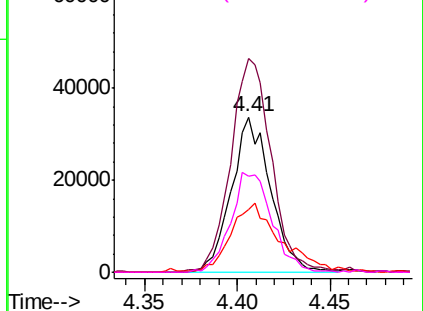
#20
Methylene Chloride
Concen: 0.745 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033553.D
Acq: 5 Apr 2019 4:08

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion:	84	Resp:	49746
Ion	Ratio	Lower	Upper
84	100		
49	136.3	120.0	180.0
51	39.7	36.7	55.1
86	62.3	51.9	77.9

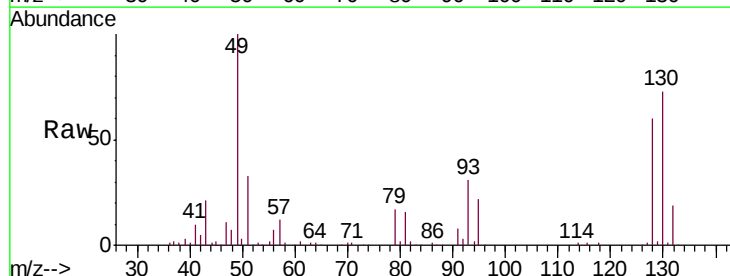


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

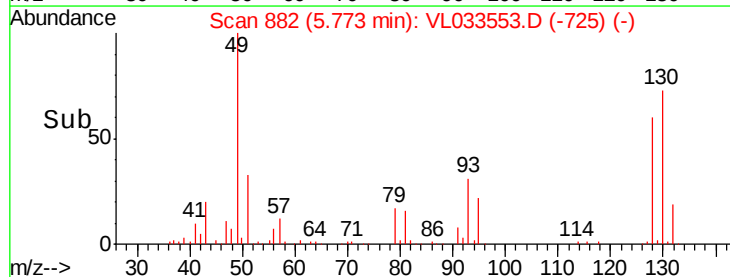
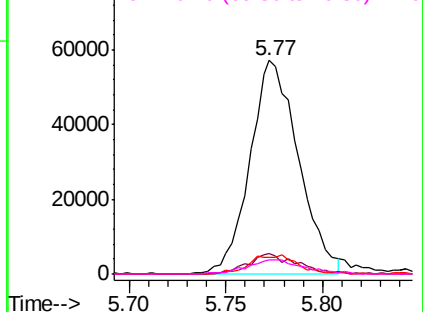


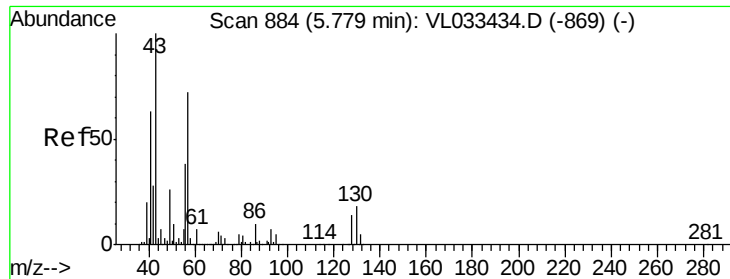
#25
Ethyl Acetate
Concen: 0.342 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033553.D
Acq: 5 Apr 2019 4:08

Tgt Ion:	43	Resp:	99779
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.6
61	8.7	7.3	10.9
70	7.6	5.6	8.4



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

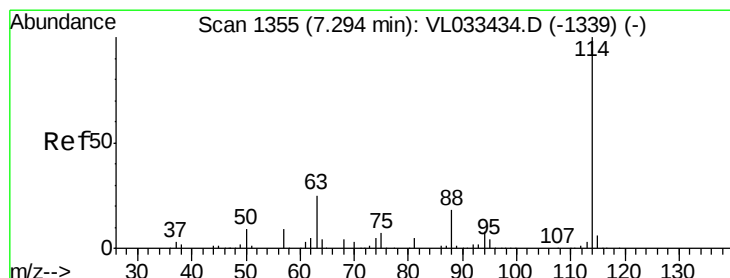
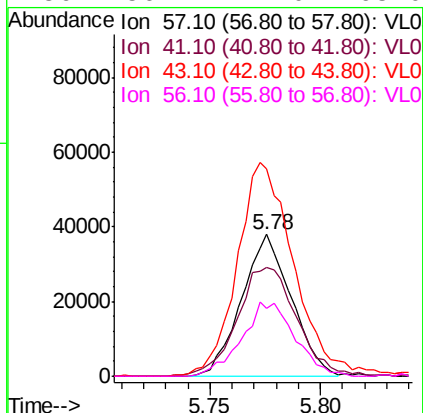
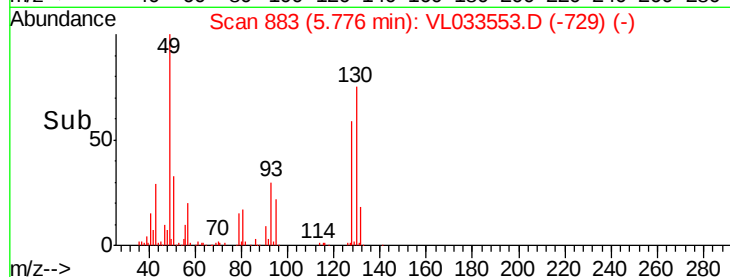
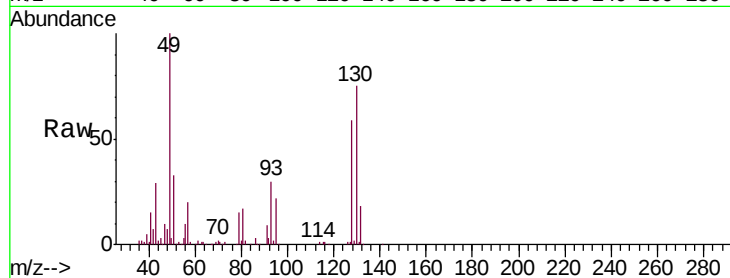




#26
Hexane
Concen: 0.457 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033553.D
Acq: 5 Apr 2019 4:08

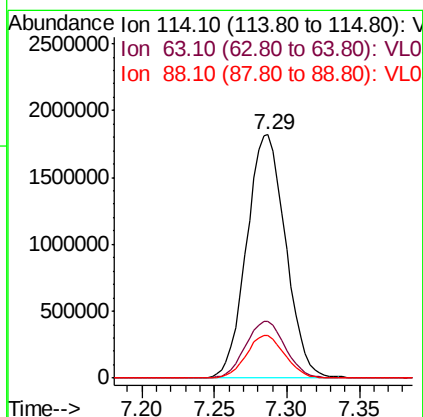
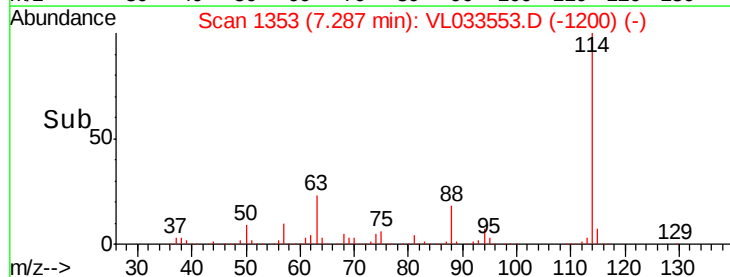
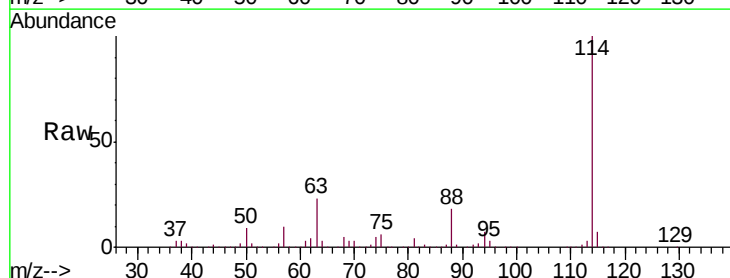
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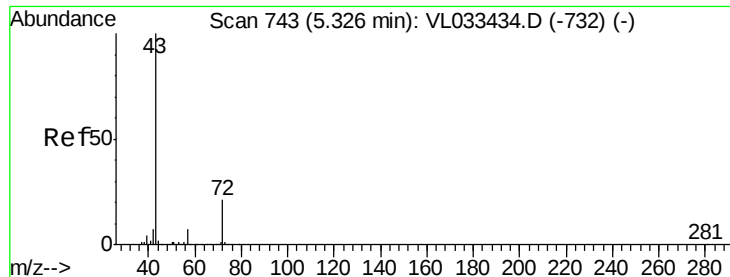
Tgt Ion: 57 Resp: 59285
Ion Ratio Lower Upper
57 100
41 92.6 70.7 106.1
43 172.9 182.6 274.0#
56 56.4 42.0 63.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033553.D
Acq: 5 Apr 2019 4:08

Tgt Ion: 114 Resp: 3409963
Ion Ratio Lower Upper
114 100
63 23.9 21.5 32.3
88 17.5 14.5 21.7

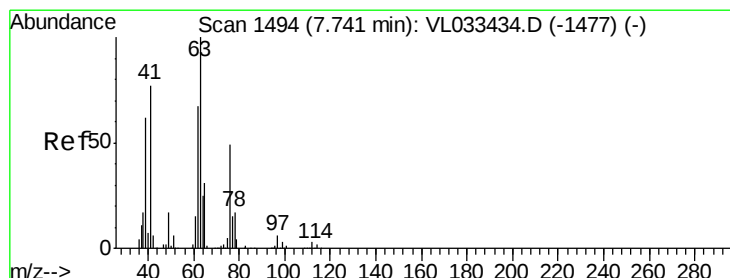
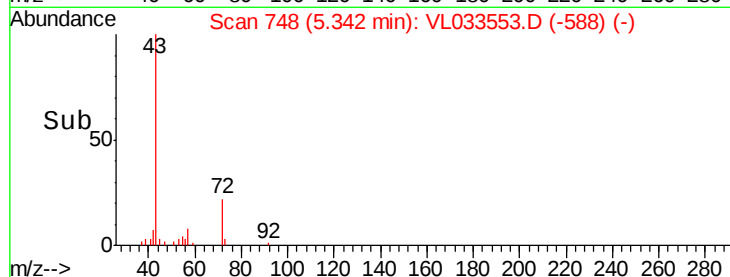
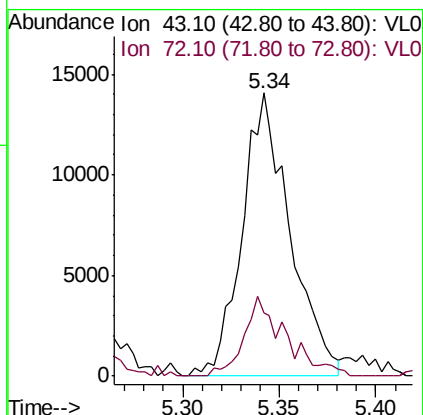
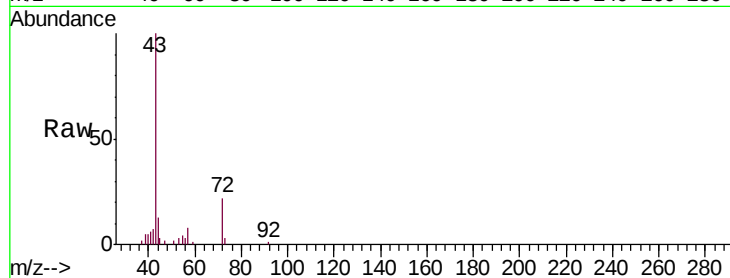




#34
 2-Butanone
 Concen: 0.119 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.02 min
 Lab File: VL033553.D
 Acq: 5 Apr 2019 4:08

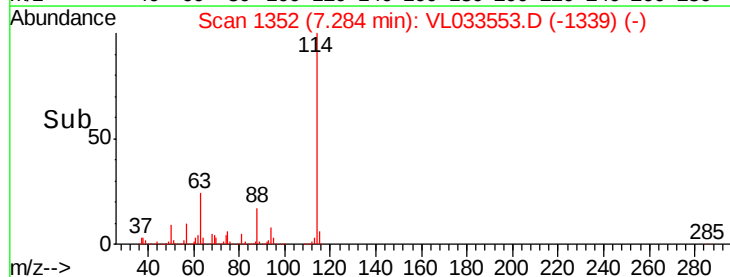
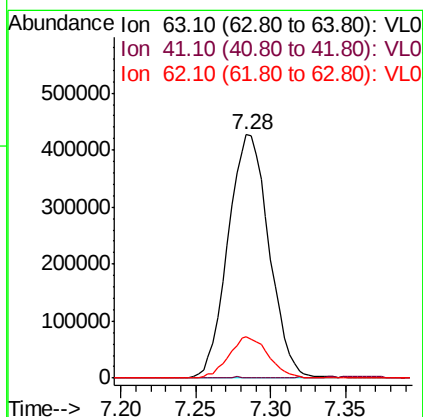
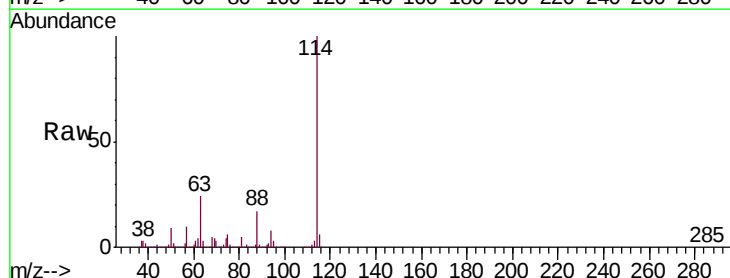
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

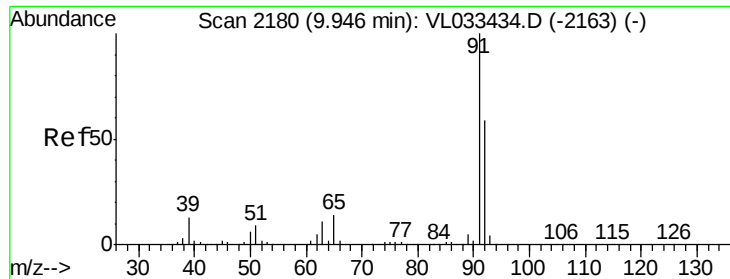
Tgt Ion: 43 Resp: 24409
 Ion Ratio Lower Upper
 43 100
 72 24.7 17.4 26.2



#39
 1,2-Dichloropropane
 Concen: 7.269 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.46 min
 Lab File: VL033553.D
 Acq: 5 Apr 2019 4:08

Tgt Ion: 63 Resp: 814735
 Ion Ratio Lower Upper
 63 100
 41 0.3 61.2 91.8#
 62 16.7 54.0 81.0#





#53

Toluene

Concen: 0.198 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033553.D

Acq: 5 Apr 2019 4:08

Instrument :

MSVOA_L

ClientSampleId :

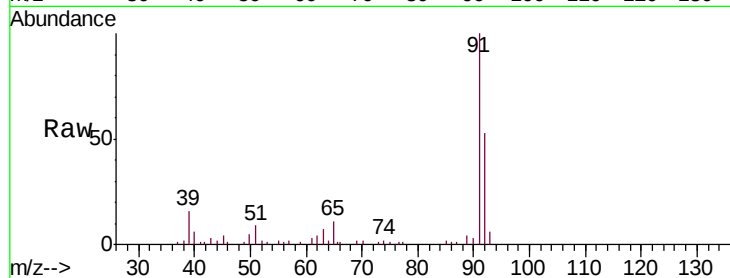
SV2DL

Tgt Ion: 91 Resp: 65775

Ion Ratio Lower Upper

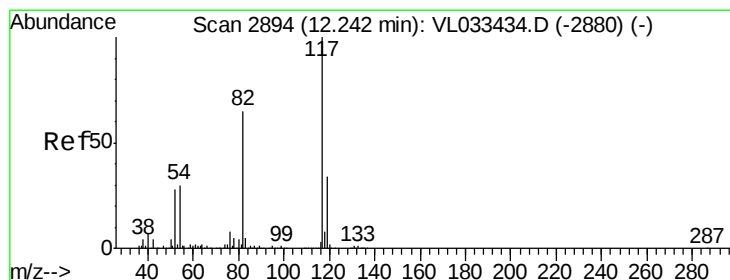
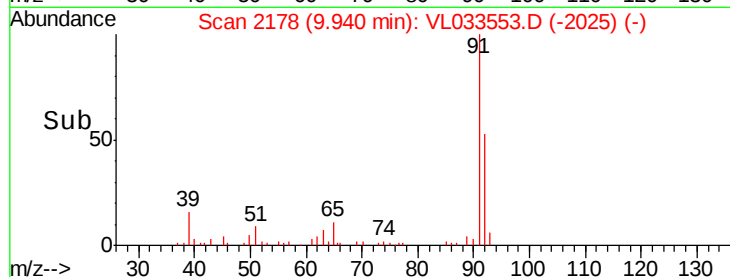
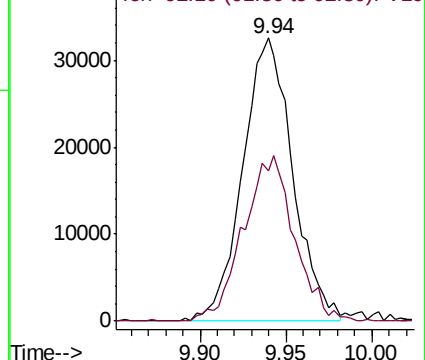
91 100

92 59.6 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: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033553.D

Acq: 5 Apr 2019 4:08

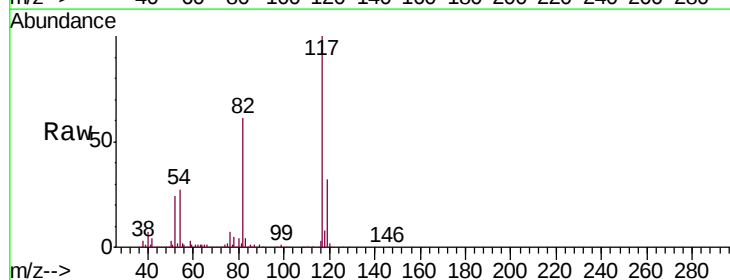
Tgt Ion: 117 Resp: 3399140

Ion Ratio Lower Upper

117 100

82 62.0 51.5 77.3

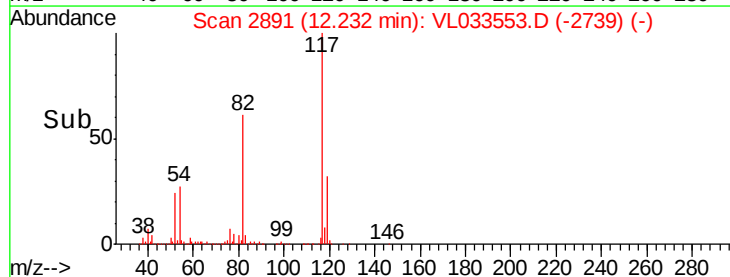
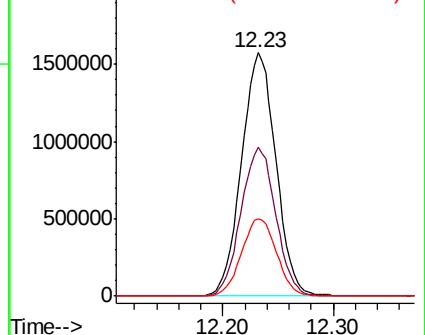
119 32.6 25.5 38.3

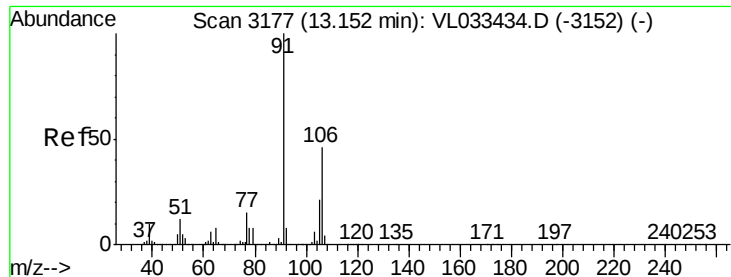


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

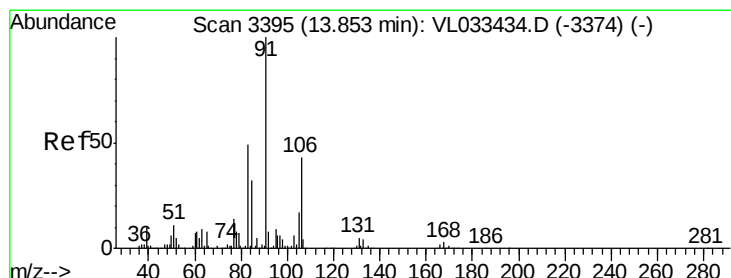
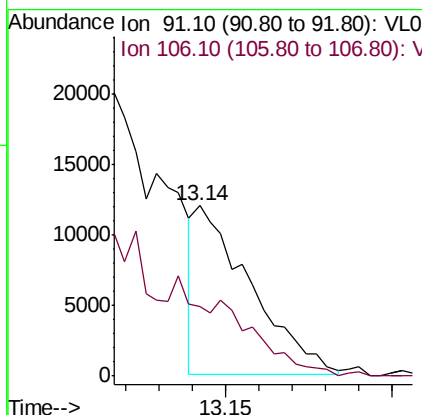
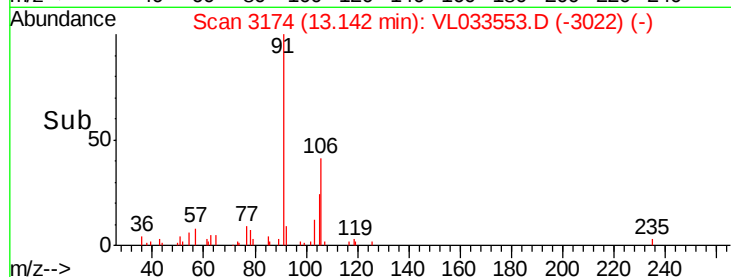
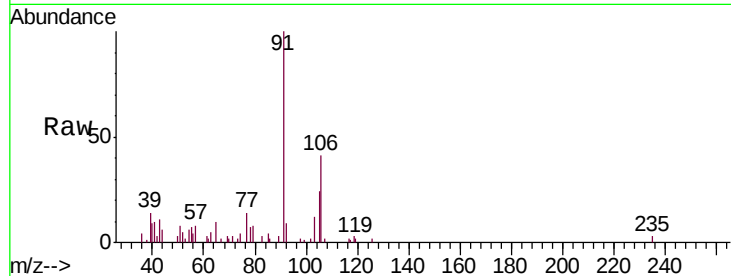




#59
m/p-Xylene
Concen: 0.034 ppbv
RT: 13.14 min Scan# 3174
Delta R.T. -0.01 min
Lab File: VL033553.D
Acq: 5 Apr 2019 4:08

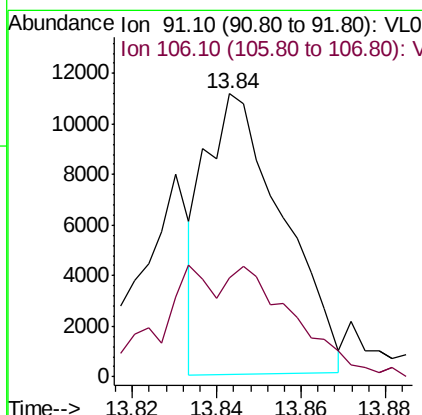
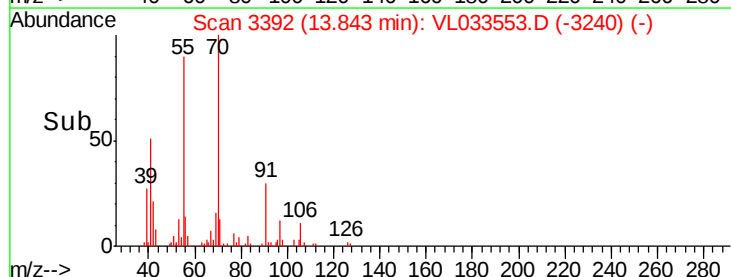
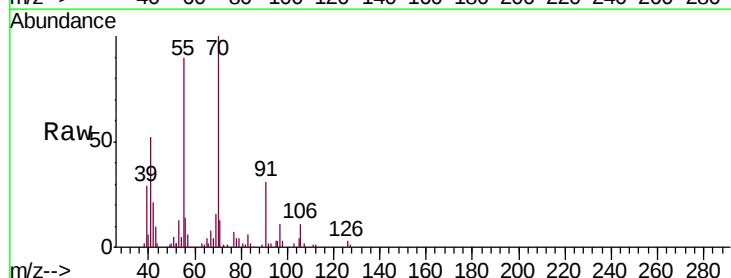
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

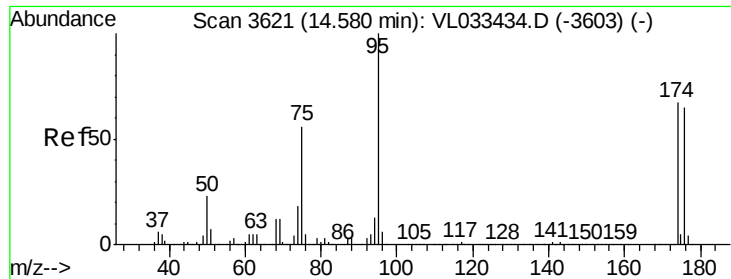
Tgt Ion: 91 Resp: 13867
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#60
o-Xylene
Concen: 0.036 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033553.D
Acq: 5 Apr 2019 4:08

Tgt Ion: 91 Resp: 14232
Ion Ratio Lower Upper
91 100
106 0.0 21.4 64.3#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.785 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033553.D

Acq: 5 Apr 2019 4:08

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

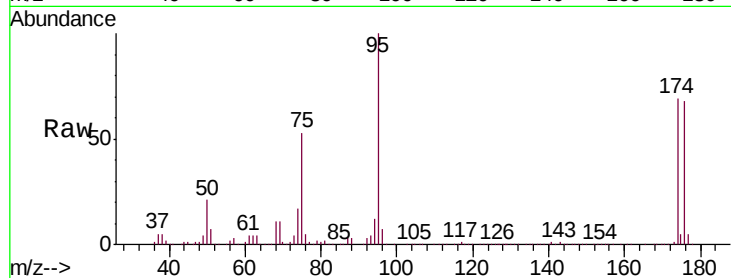
Tgt Ion: 95 Resp: 2607529

Ion Ratio Lower Upper

95 100

174 70.0 52.9 79.3

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

