

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033349.D
 Acq On : 16 Mar 2019 3:04
 Operator : SY/AP
 Sample : K1827-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 16 04:01:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	691260	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1557016	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1742288	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1329907	10.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	29770	0.245	ppbv	98
3) Chlorodifluoromethane	2.99	51	251490	3.170	ppbv #	75
4) Chloromethane	3.17	50	23900	0.556	ppbv	98
5) Vinyl Chloride	3.04	62	894	0.020	ppbv	90
9) Propene	3.24	41	250652	7.077	ppbv	95
10) Heptane	8.25	43	136423	1.553	ppbv	100
11) Trichlorofluoromethane	4.01	101	30964	0.256	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1731	0.022	ppbv #	14
13) Ethanol	3.65	45	2072158	122.724	ppbv	98
15) Acetone	3.90	43	785414	7.309	ppbv	95
16) 1,3-Butadiene	3.35	39	2996	0.086	ppbv #	39
17) tert-Butyl alcohol	4.03	59	25617	1.694	ppbv	96
19) Isopropyl Alcohol	4.03	45	706503	13.822	ppbv	100
20) Methylene Chloride	4.41	84	79775	2.276	ppbv	97
23) Vinyl Acetate	5.15	43	9930	0.080	ppbv #	16
25) Ethyl Acetate	5.77	43	336223	2.152	ppbv	98
26) Hexane	5.78	57	167196	2.394	ppbv	89
27) Carbon Disulfide	4.62	76	2221	0.028	ppbv #	55
30) Cyclohexane	7.24	84	1968	0.035	ppbv #	1
31) cis-1,2-Dichloroethene	5.76	61	14559	0.209	ppbv #	27
34) 2-Butanone	5.33	43	80151	0.784	ppbv	99
35) Carbon Tetrachloride	7.13	117	2587	0.024	ppbv #	88
36) Benzene	7.01	78	19151	0.137	ppbv	97
37) 1,2-Dichloroethane	6.41	62	1860	0.021	ppbv #	83
38) Trichloroethene	7.96	130	2555	0.048	ppbv #	46
39) 1,2-Dichloropropane	7.30	63	421670	8.081	ppbv #	23
41) Tetrahydrofuran	5.78	42	83495	1.530	ppbv #	48
43) Methyl Methacrylate	8.14	69	4638	0.085	ppbv #	1
44) 2,2,4-Trimethylpentane	7.99	57	46913	0.203	ppbv #	69
50) 4-Methyl-2-Pentanone	8.88	43	144107	0.998	ppbv	98
51) 2-Hexanone	10.19	43	3290	0.030	ppbv #	53
52) Tetrachloroethene	11.37	164	3424	0.059	ppbv #	59
53) Toluene	9.95	91	4850528	30.635	ppbv	99
58) Ethyl Benzene	12.87	91	167271	0.679	ppbv	100
59) m/p-Xylene	13.12	91	121572	0.574	ppbv #	100
60) o-Xylene	13.85	91	52072	0.252	ppbv	99
61) Styrene	13.68	104	21201	0.147	ppbv #	79
69) p-Isopropyltoluene	17.82	119	6306	0.021	ppbv #	68
74) 1,2,4-Trimethylbenzene	16.93	105	32256	0.133	ppbv #	63

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QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration

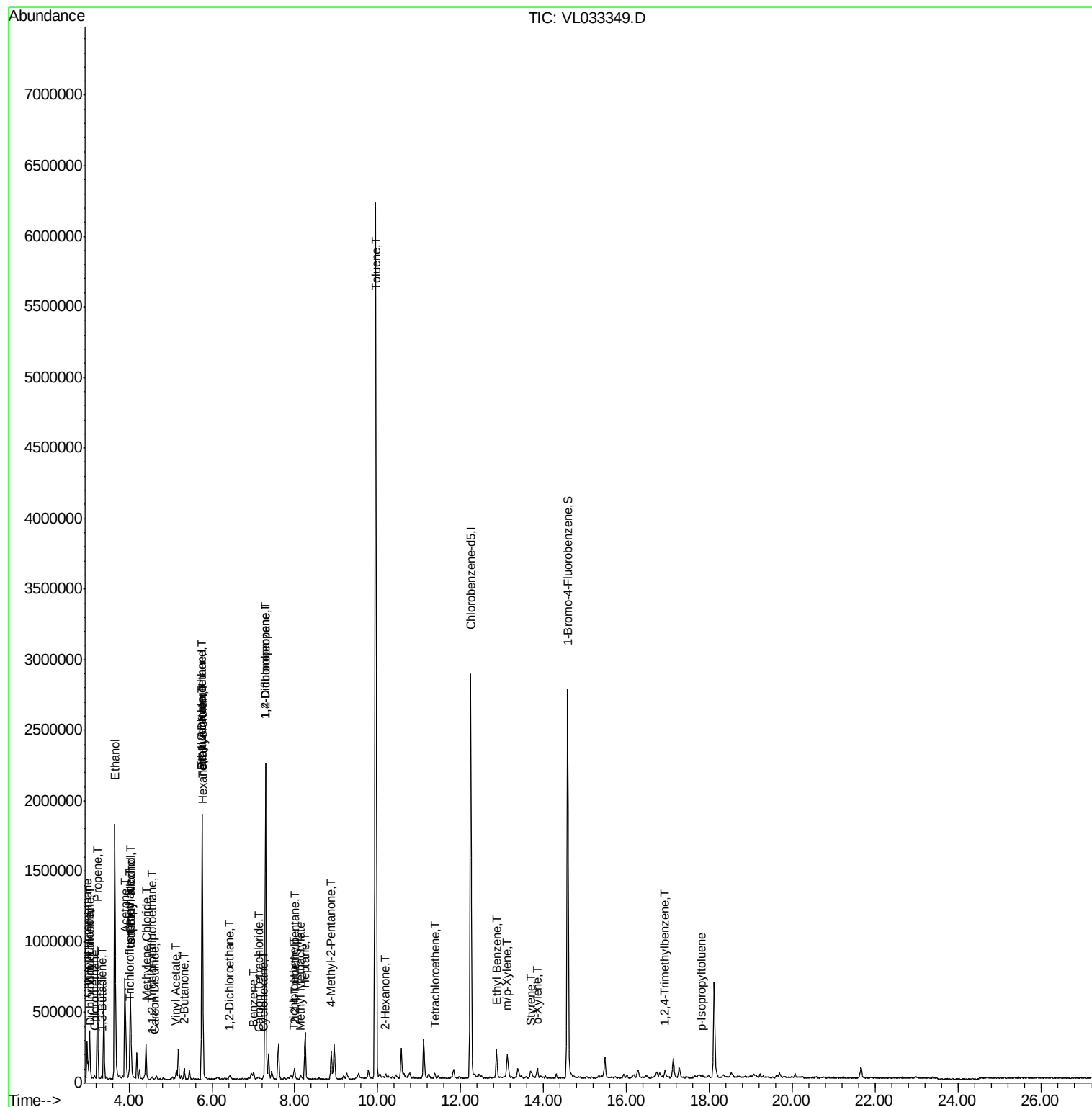
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

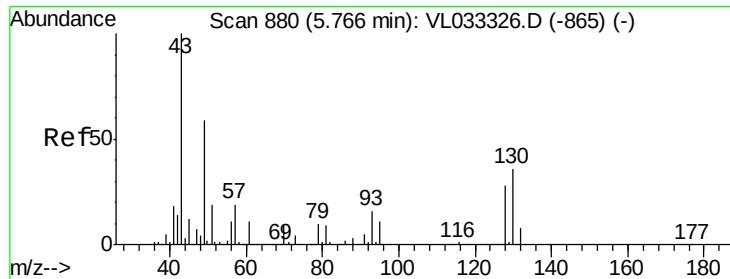
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031519\
Data File : VL033349.D
Acq On : 16 Mar 2019 3:04
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

Instrument :

MSVOA_L

ClientSampleId :

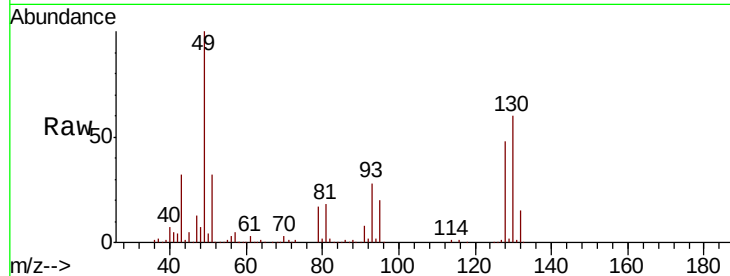
Tot Ion: 49 Resp: 691260

Ion Ratio Lower Upper

49 100

128 46.5 23.5 70.6

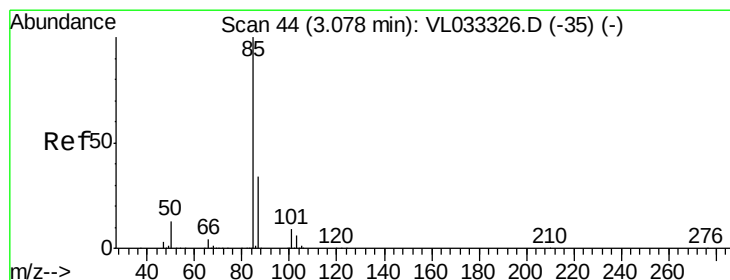
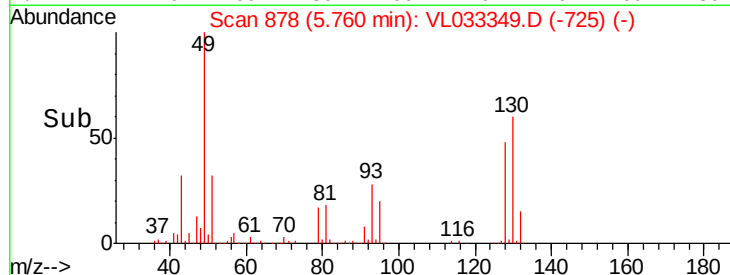
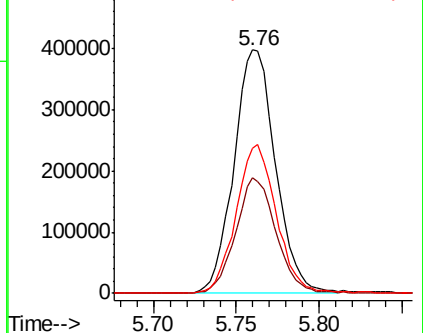
130 59.4 30.1 90.3



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: 0.245 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033349.D

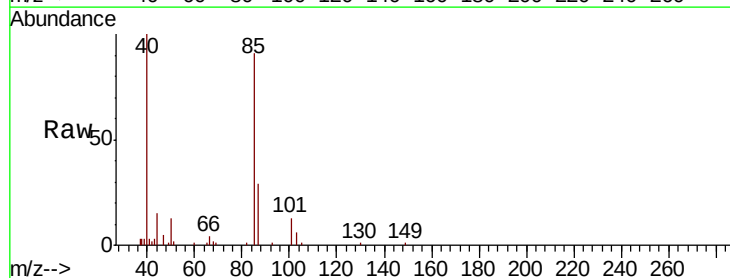
Acq: 16 Mar 2019 3:04

Tgt Ion: 85 Resp: 29770

Ion Ratio Lower Upper

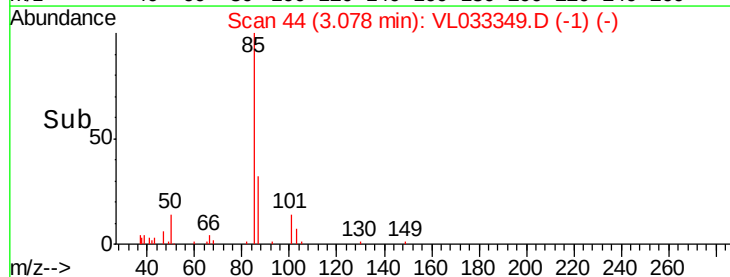
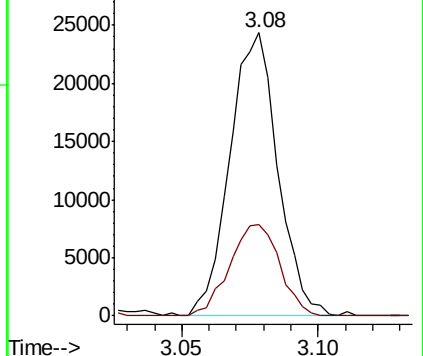
85 100

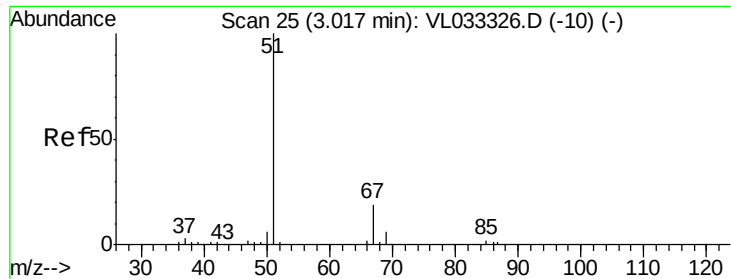
87 32.4 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

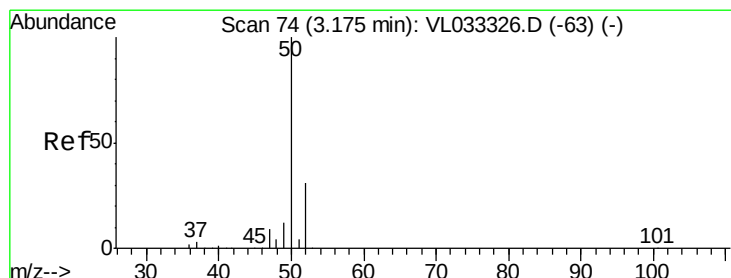
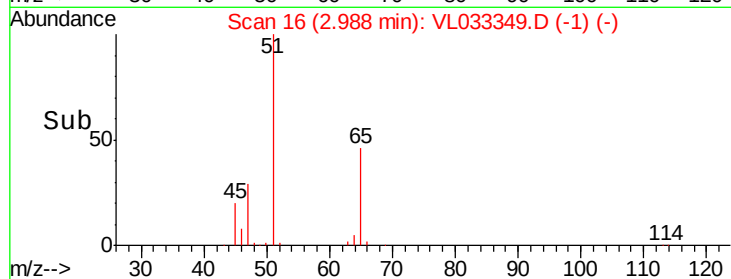
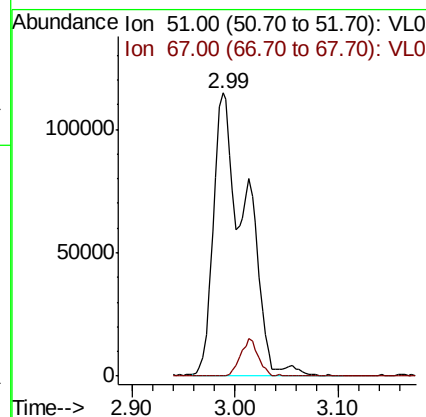
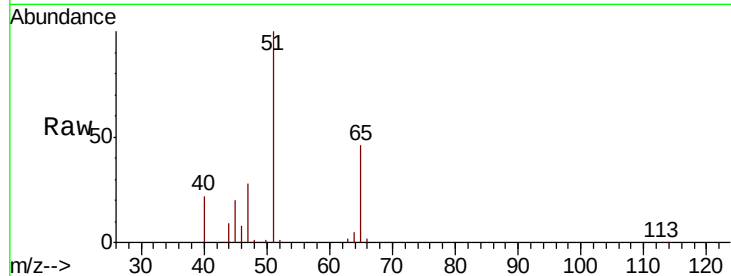




#3
 Chlorodifluoromethane
 Concen: 3.170 ppbv
 RT: 2.99 min Scan# 16
 Delta R.T. -0.03 min
 Lab File: VL033349.D
 Acq: 16 Mar 2019 3:04

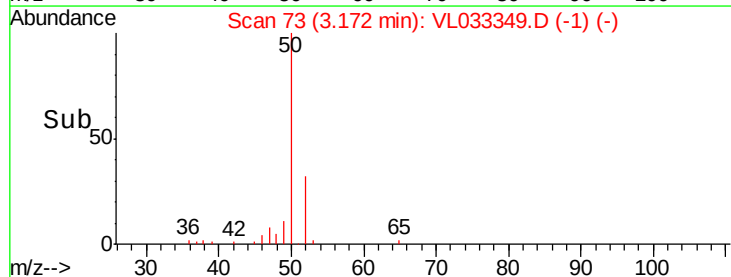
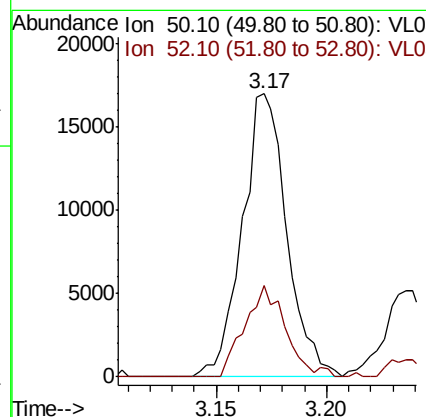
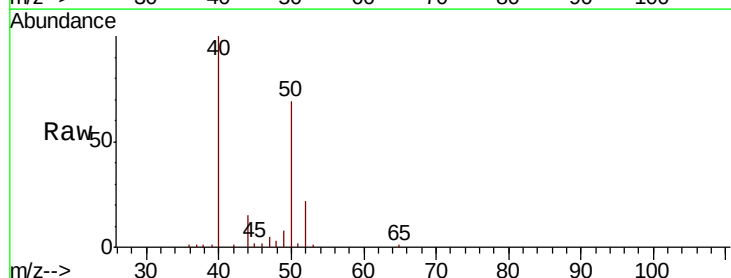
Instrument :
 MSVOA_L
 ClientSampleId :

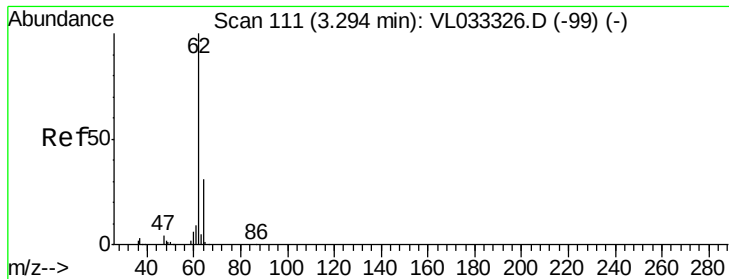
Tot Ion: 51 Resp: 251490
 Ion Ratio Lower Upper
 51 100
 67 7.4 14.9 22.3#



#4
 Chloromethane
 Concen: 0.556 ppbv
 RT: 3.17 min Scan# 73
 Delta R.T. -0.00 min
 Lab File: VL033349.D
 Acq: 16 Mar 2019 3:04

Tgt Ion: 50 Resp: 23900
 Ion Ratio Lower Upper
 50 100
 52 32.2 25.0 37.6





#5

Vinyl Chloride

Concen: 0.020 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.25 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

Instrument :

MSVOA_L

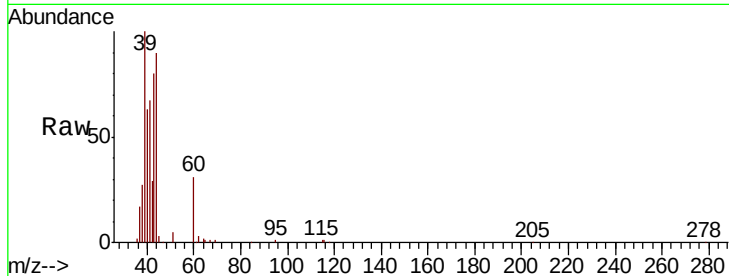
ClientSampleId :

Tot Ion: 62 Resp: 894

Ion Ratio Lower Upper

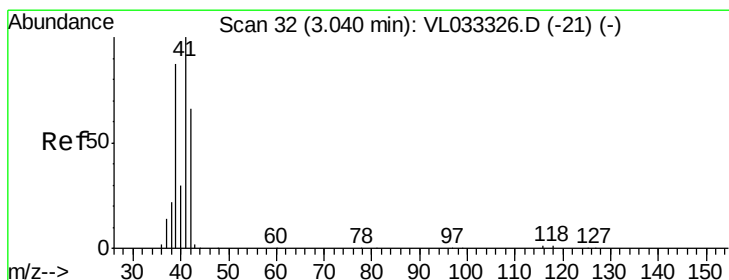
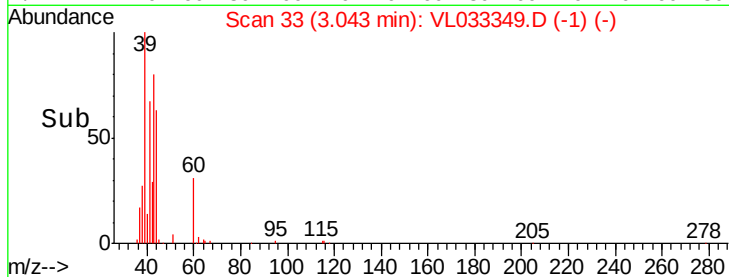
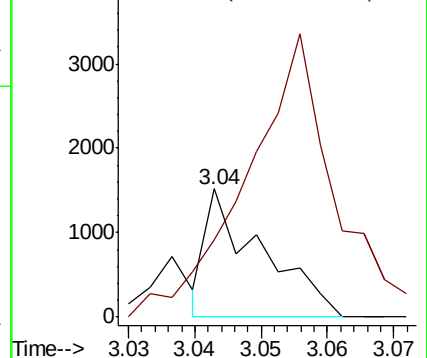
62 100

64 25.6 25.0 37.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#9

Propene

Concen: 7.077 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033349.D

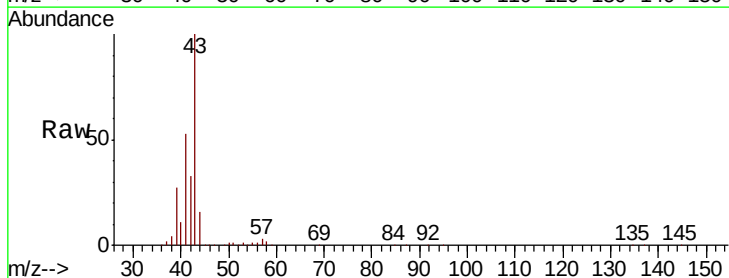
Acq: 16 Mar 2019 3:04

Tgt Ion: 41 Resp: 250652

Ion Ratio Lower Upper

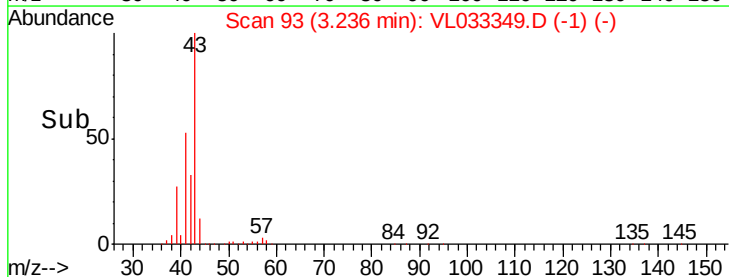
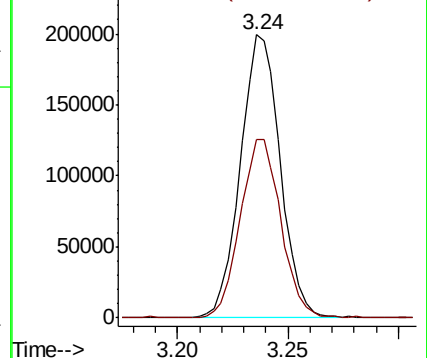
41 100

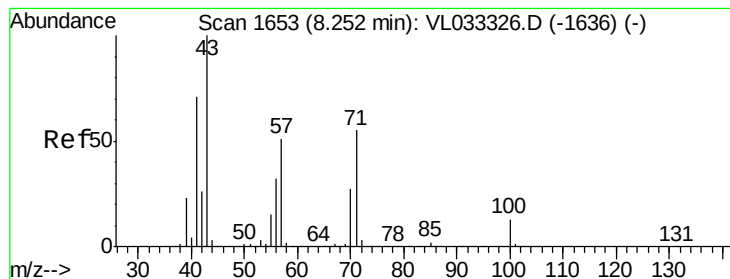
42 64.8 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 1.553 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

Instrument :

MSVOA_L

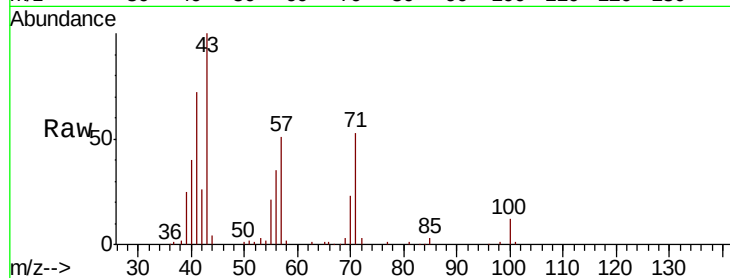
ClientSampleId :

Tot Ion: 43 Resp: 136423

Ion Ratio Lower Upper

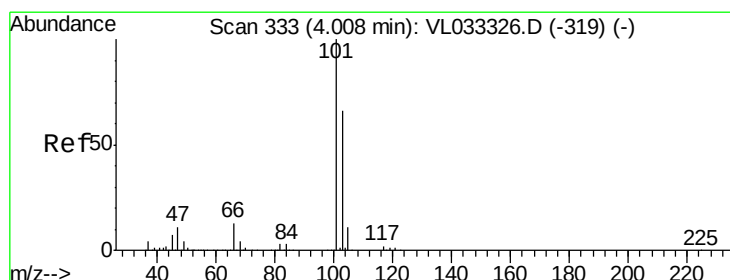
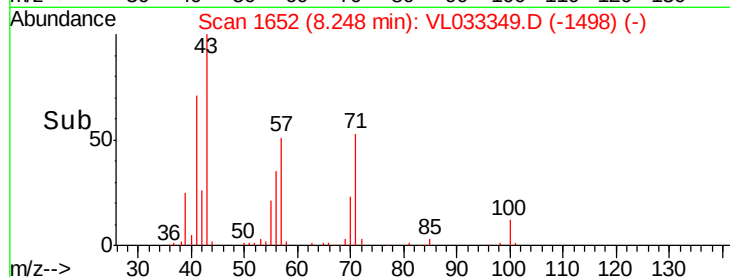
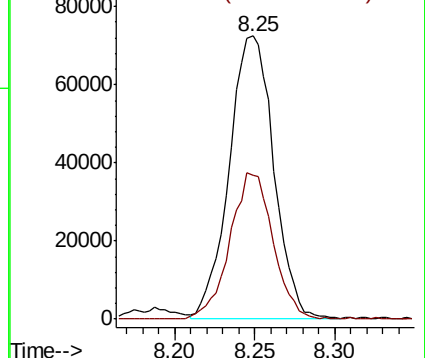
43 100

57 50.2 40.4 60.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.256 ppbv

RT: 4.01 min Scan# 333

Delta R.T. -0.00 min

Lab File: VL033349.D

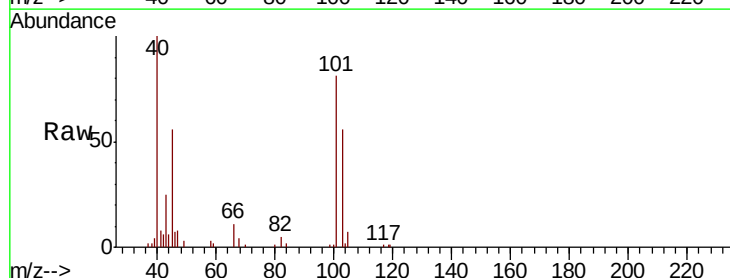
Acq: 16 Mar 2019 3:04

Tgt Ion: 101 Resp: 30964

Ion Ratio Lower Upper

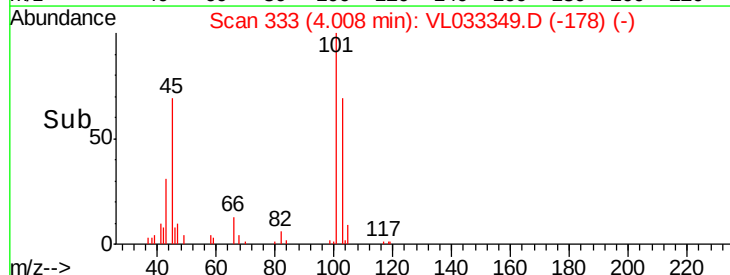
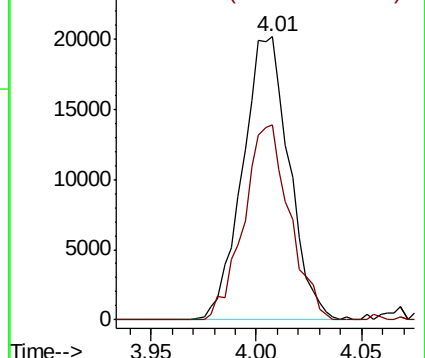
101 100

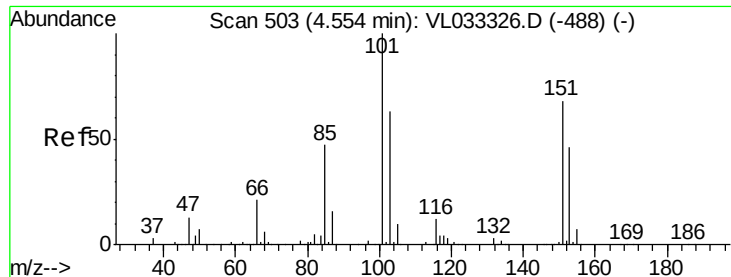
103 69.0 52.9 79.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.022 ppbv

RT: 4.54 min Scan# 500

Delta R.T. -0.01 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

Instrument :

MSVOA_L

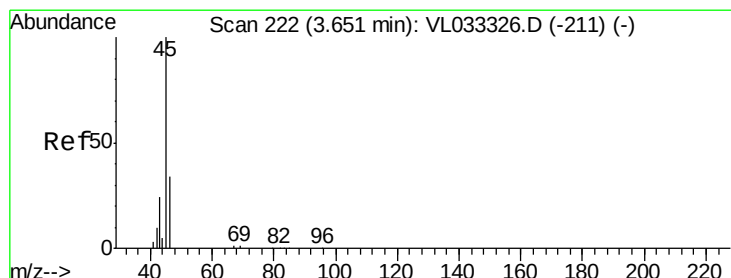
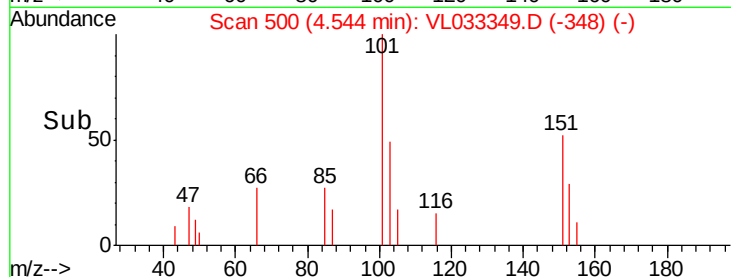
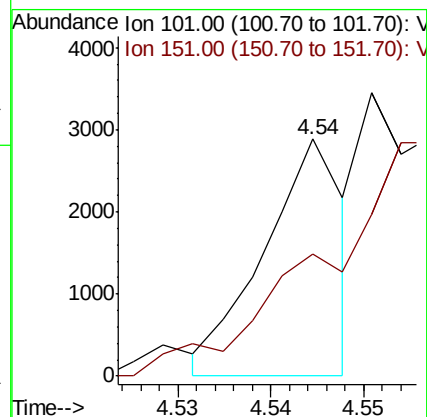
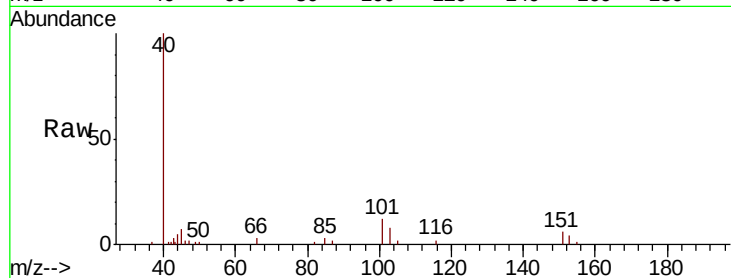
ClientSampleId :

Tot Ion:101 Resp: 1731

Ion Ratio Lower Upper

101 100

151 0.0 56.3 84.5#



#13

Ethanol

Concen: 122.724 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033349.D

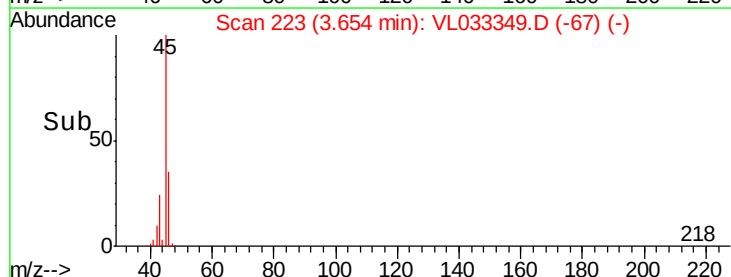
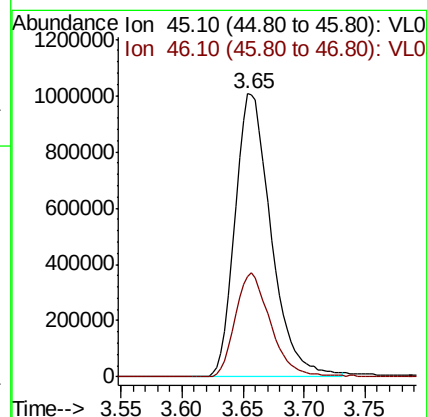
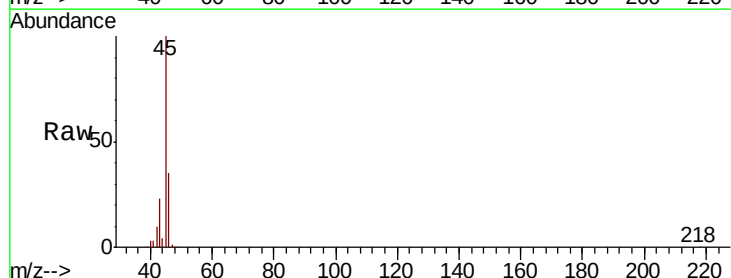
Acq: 16 Mar 2019 3:04

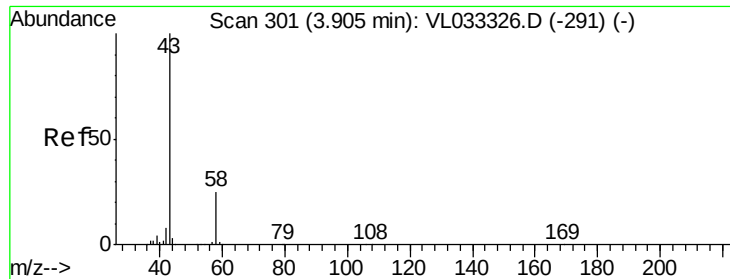
Tgt Ion: 45 Resp: 2072158

Ion Ratio Lower Upper

45 100

46 36.3 14.9 59.7





#15

Acetone

Concen: 7.309 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

Instrument :

MSVOA_L

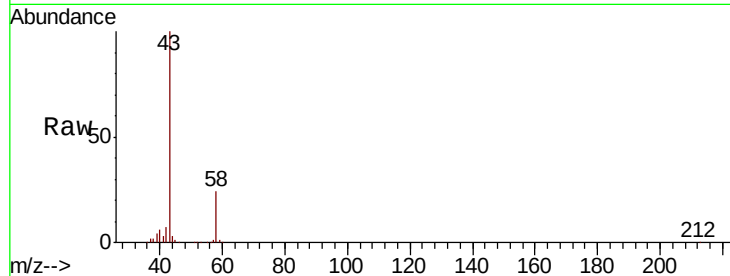
ClientSampled :

Tot Ion: 43 Resp: 785414

Ion Ratio Lower Upper

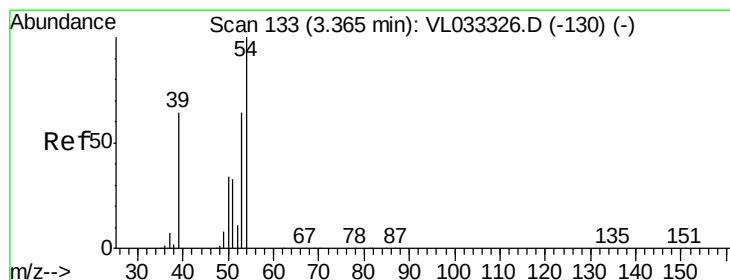
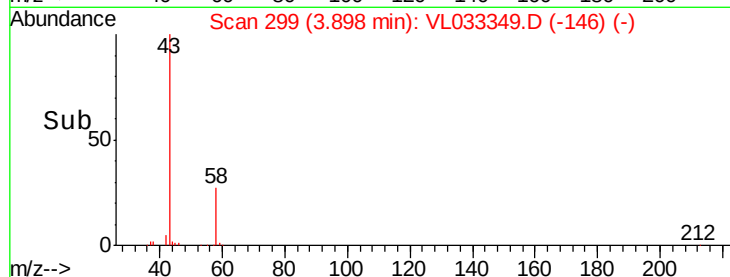
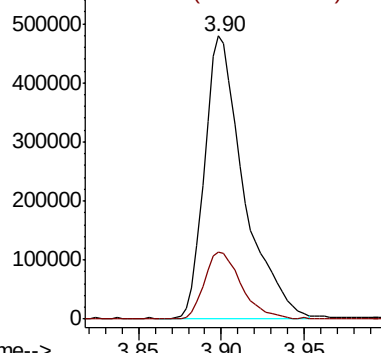
43 100

58 22.8 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.086 ppbv

RT: 3.35 min Scan# 127

Delta R.T. -0.02 min

Lab File: VL033349.D

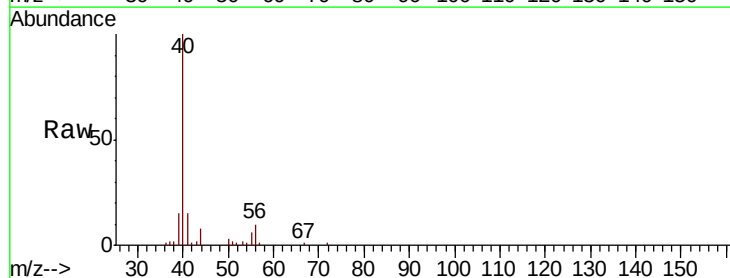
Acq: 16 Mar 2019 3:04

Tgt Ion: 39 Resp: 2996

Ion Ratio Lower Upper

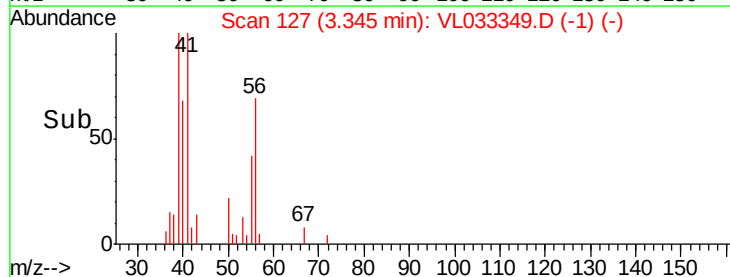
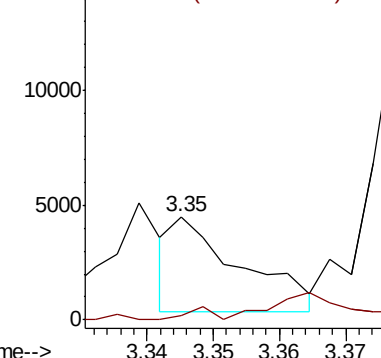
39 100

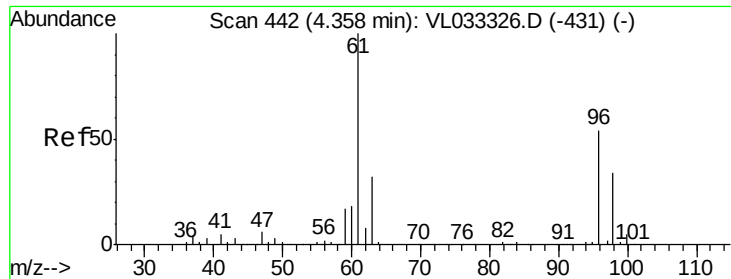
54 36.7 76.8 115.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 1.694 ppbv

RT: 4.03 min Scan# 341

Delta R.T. -0.32 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

Instrument :

MSVOA_L

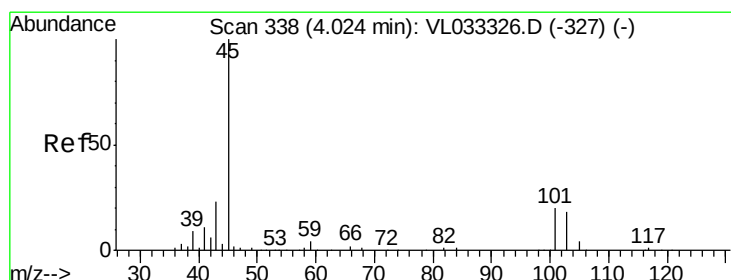
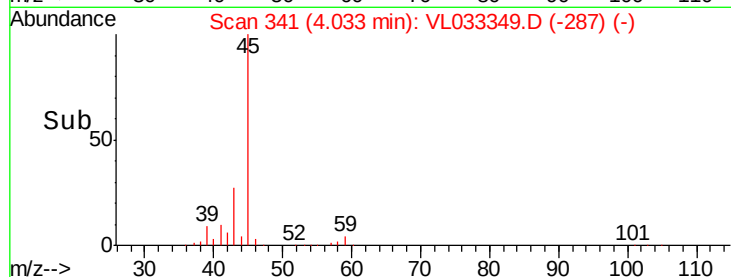
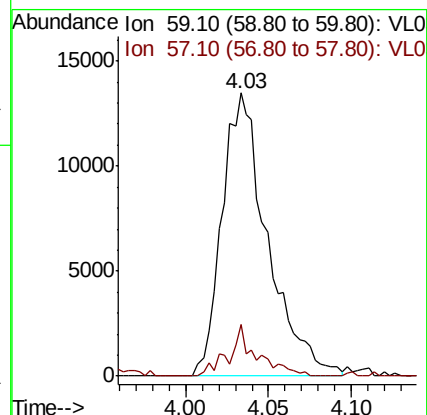
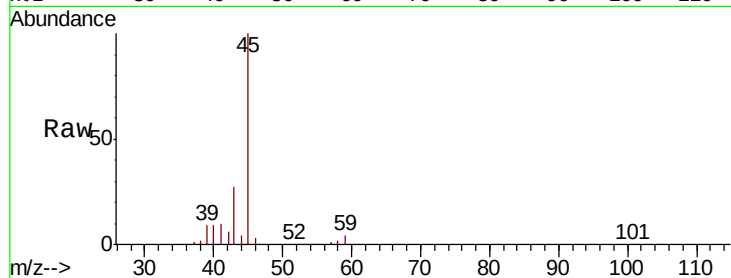
ClientSampled :

Tot Ion: 59 Resp: 25617

Ion Ratio Lower Upper

59 100

57 11.2 7.7 11.5



#19

Isopropyl Alcohol

Concen: 13.822 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033349.D

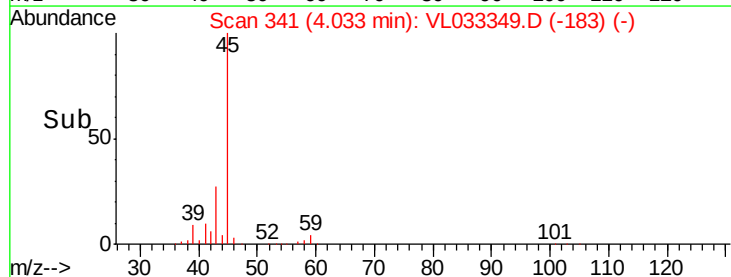
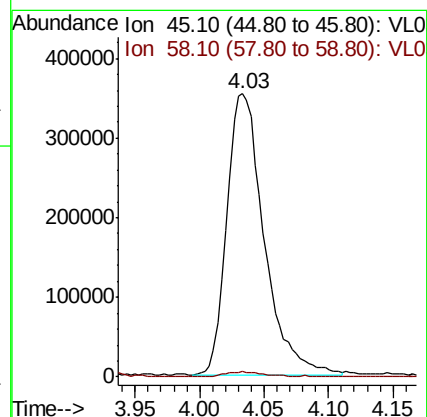
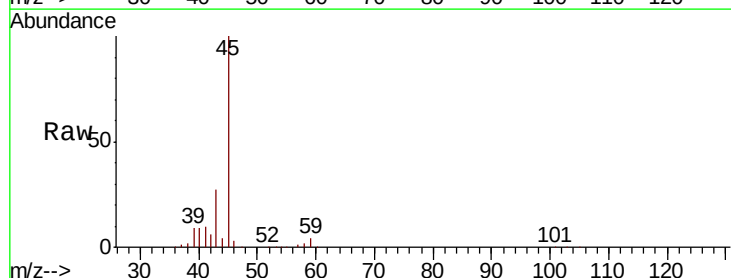
Acq: 16 Mar 2019 3:04

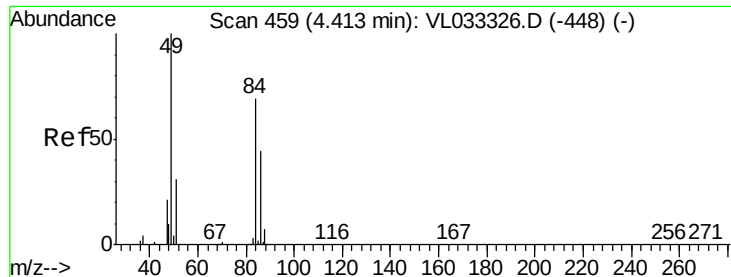
Tgt Ion: 45 Resp: 706503

Ion Ratio Lower Upper

45 100

58 1.9 1.5 2.3

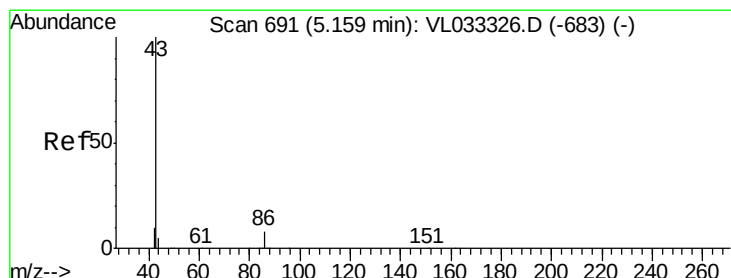
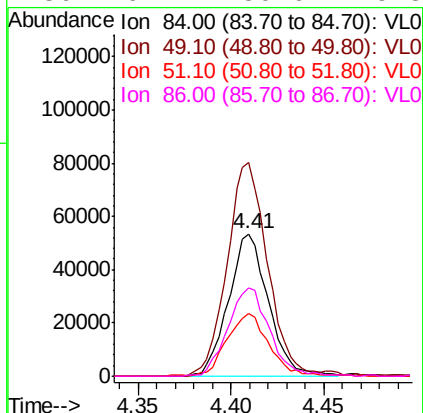
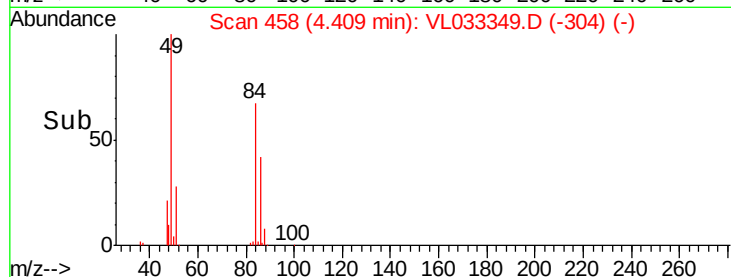
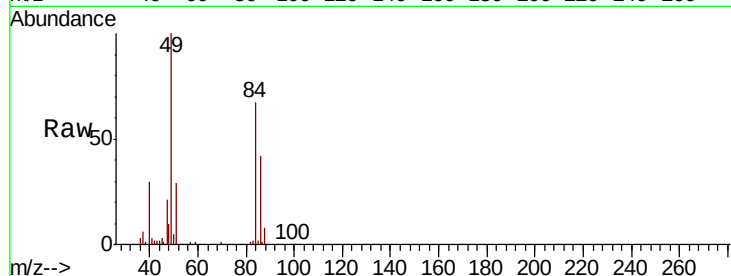




#20
Methylene Chloride
Concen: 2.276 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033349.D
Acq: 16 Mar 2019 3:04

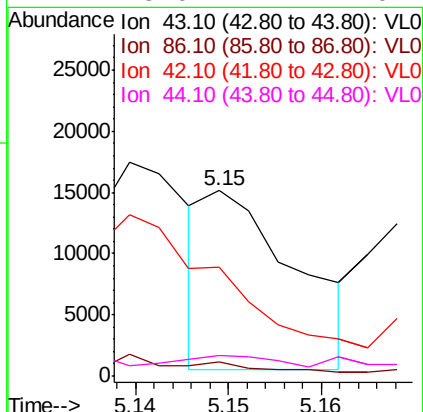
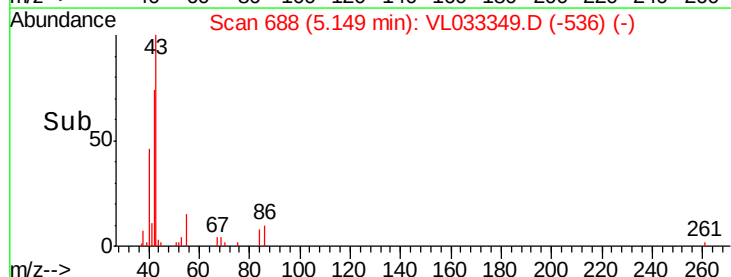
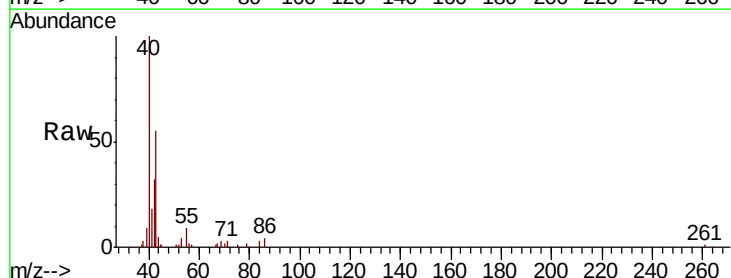
Instrument :
MSVOA_L
ClientSampleId :

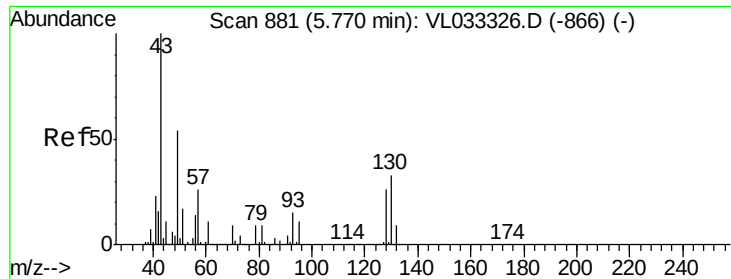
Tot Ion:	84	Resp:	79775
Ion	Ratio	Lower	Upper
84	100		
49	148.8	115.4	173.0
51	43.7	35.8	53.6
86	61.7	50.6	75.8



#23
Vinyl Acetate
Concen: 0.080 ppbv
RT: 5.15 min Scan# 688
Delta R.T. -0.01 min
Lab File: VL033349.D
Acq: 16 Mar 2019 3:04

Tgt Ion:	43	Resp:	9930
Ion	Ratio	Lower	Upper
43	100		
86	11.1	6.2	9.2#
42	78.0	8.1	12.1#
44	5.0	4.1	6.1

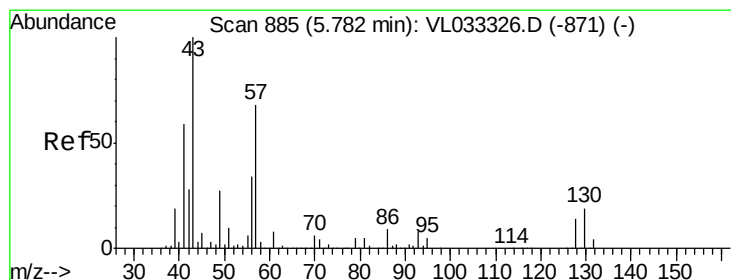
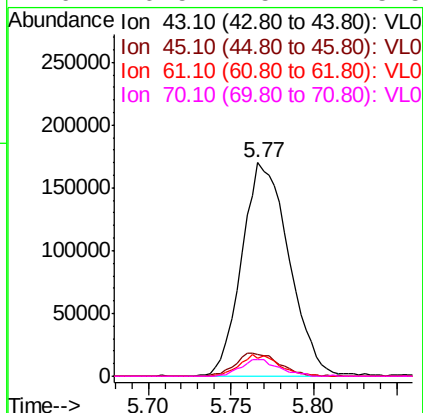
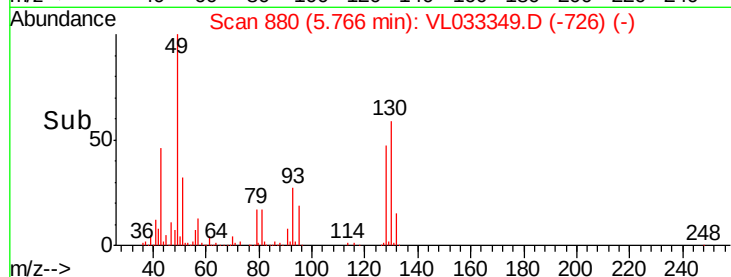
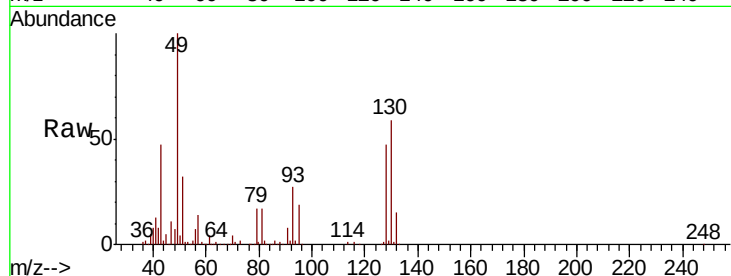




#25
Ethyl Acetate
Concen: 2.152 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033349.D
Acq: 16 Mar 2019 3:04

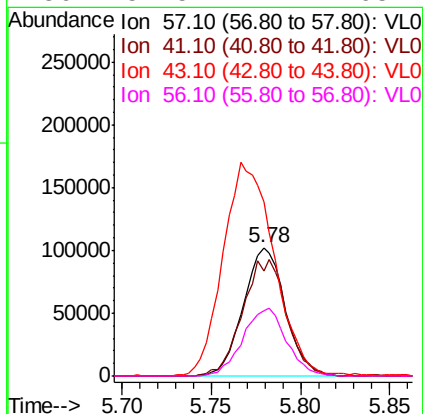
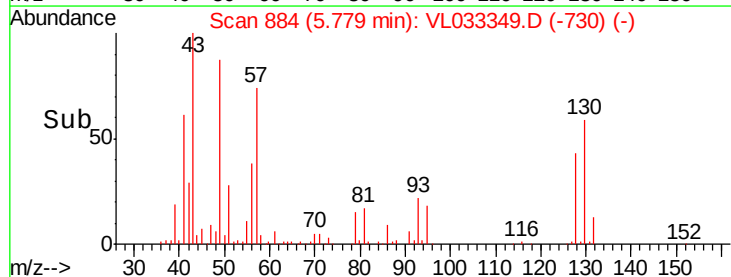
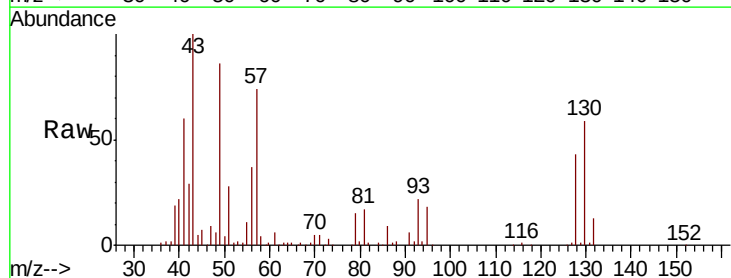
Instrument :
MSVOA_L
ClientSampleId :

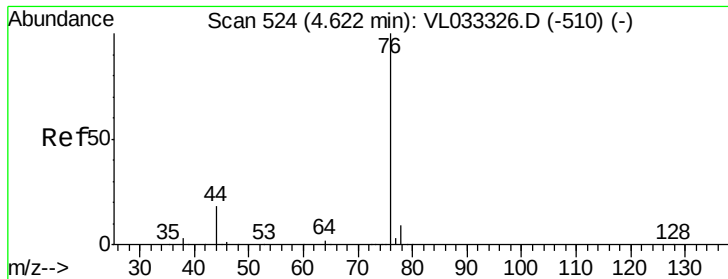
Tot Ion:	43	Resp:	336223
Ion	Ratio	Lower	Upper
43	100		
45	10.3	7.9	11.9
61	8.4	7.4	11.2
70	6.5	5.7	8.5



#26
Hexane
Concen: 2.394 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033349.D
Acq: 16 Mar 2019 3:04

Tgt Ion:	57	Resp:	167196
Ion	Ratio	Lower	Upper
57	100		
41	96.1	70.5	105.7
43	203.6	181.8	272.8
56	54.5	42.2	63.2





#27

Carbon Disulfide

Concen: 0.028 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

Instrument :

MSVOA_L

ClientSampled :

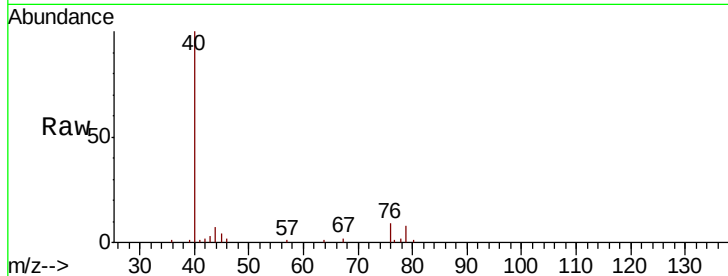
Tot Ion: 76 Resp: 2221

Ion Ratio Lower Upper

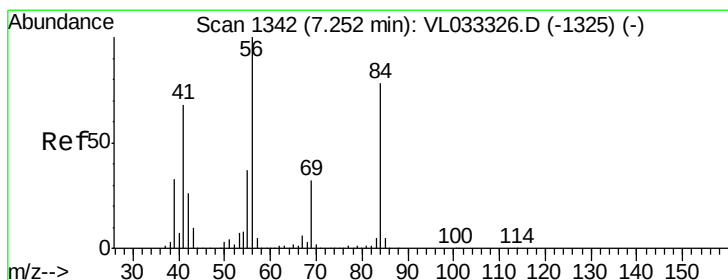
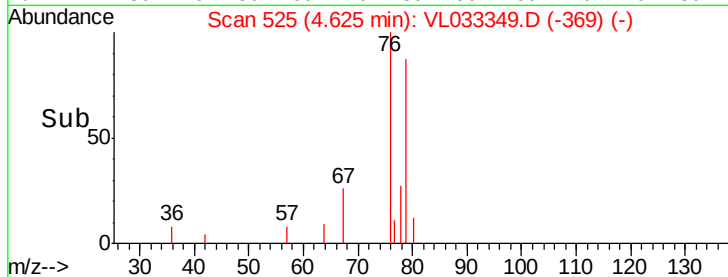
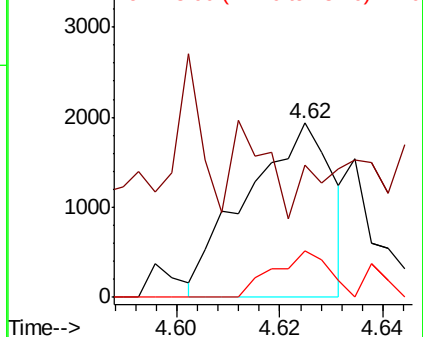
76 100

44 0.0 15.2 22.8#

78 27.1 7.2 10.8#



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



#30

Cyclohexane

Concen: 0.035 ppbv

RT: 7.24 min Scan# 1338

Delta R.T. -0.01 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

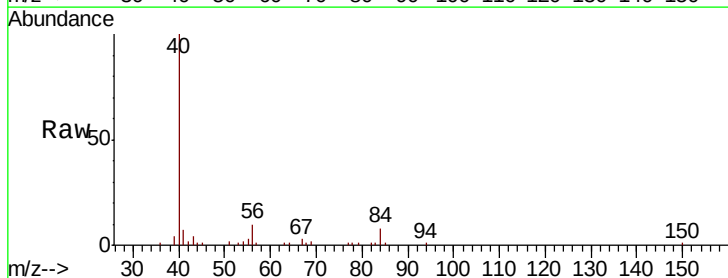
Tgt Ion: 84 Resp: 1968

Ion Ratio Lower Upper

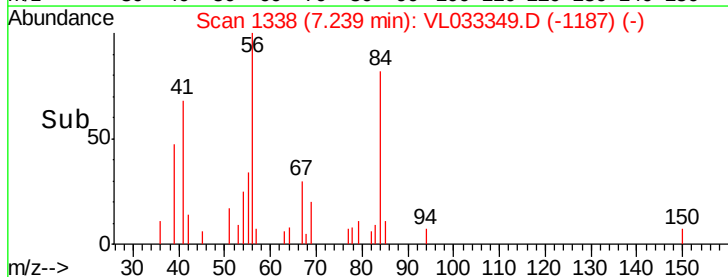
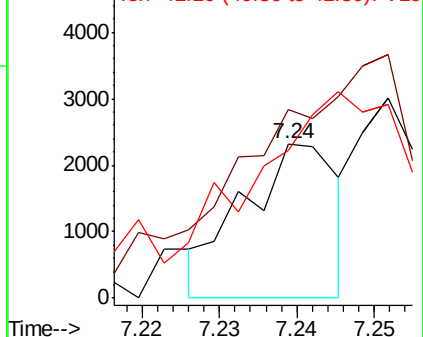
84 100

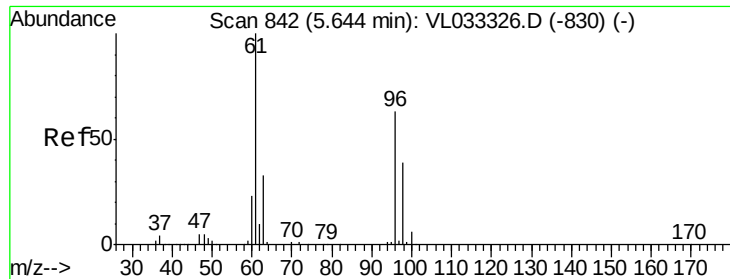
56 0.0 111.3 166.9#

41 0.0 69.6 104.4#



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: 0.209 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.12 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

Instrument :

MSVOA_L

ClientSampleId :

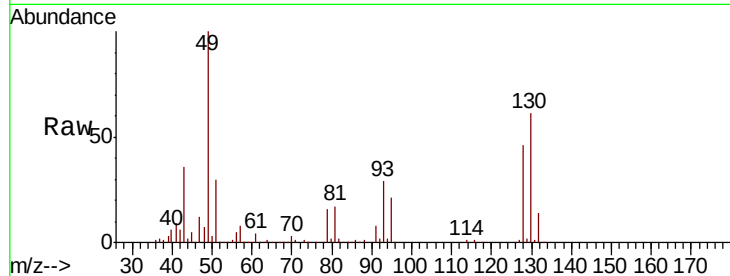
Tot Ion: 61 Resp: 14559

Ion Ratio Lower Upper

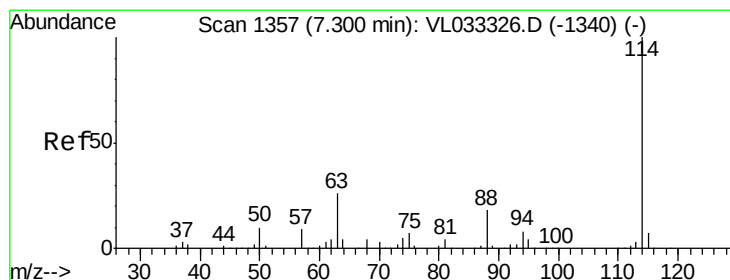
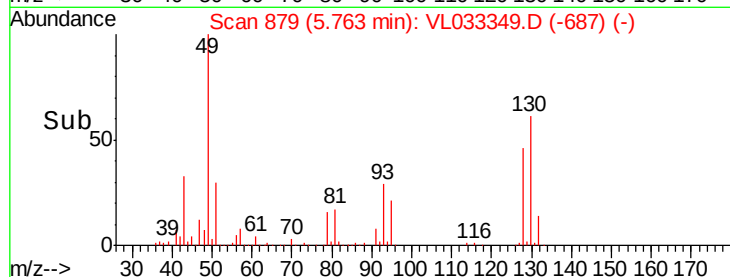
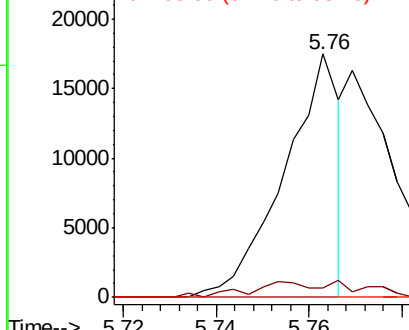
61 100

96 1.9 50.3 75.5#

98 0.0 31.5 47.3#



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.01 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

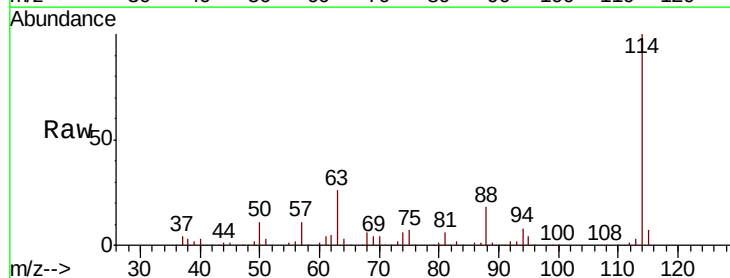
Tgt Ion:114 Resp: 1557016

Ion Ratio Lower Upper

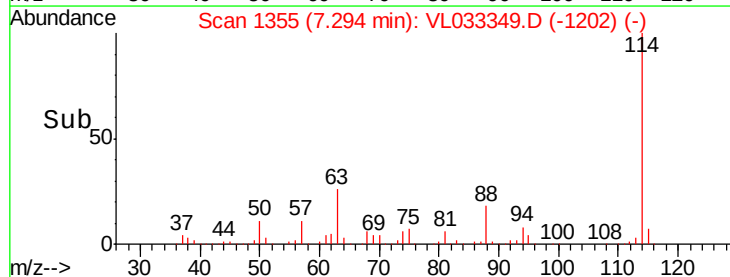
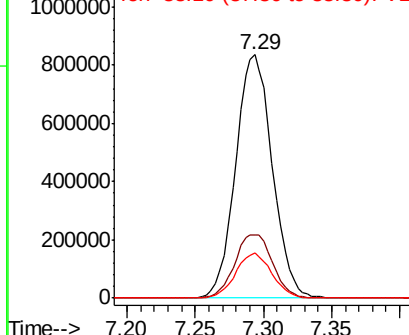
114 100

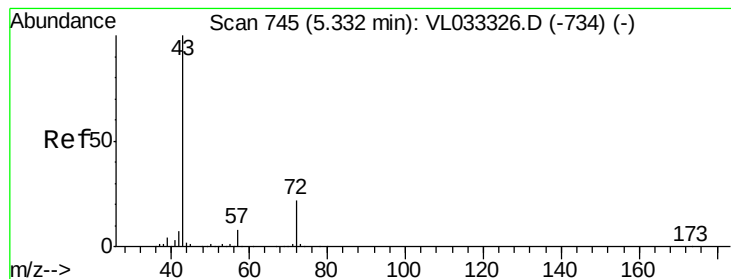
63 27.2 21.4 32.2

88 18.2 14.5 21.7



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





#34

2-Butanone

Concen: 0.784 ppbv

RT: 5.33 min Scan# 745

Delta R.T. -0.00 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

Instrument :

MSVOA_L

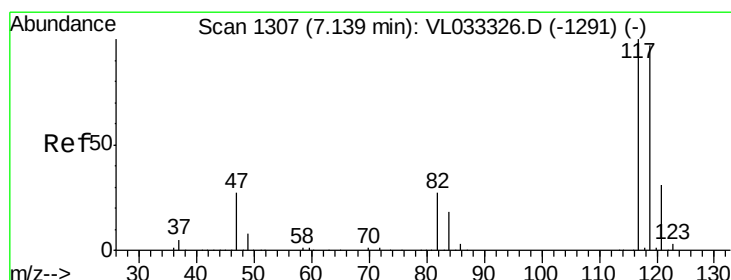
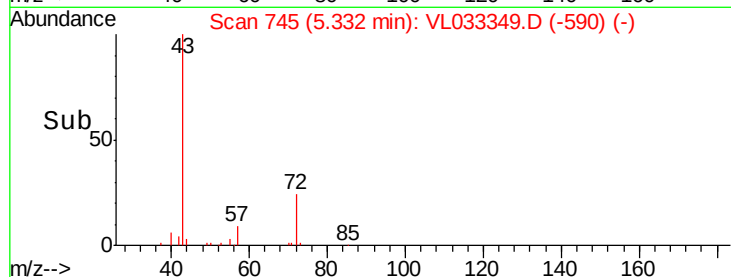
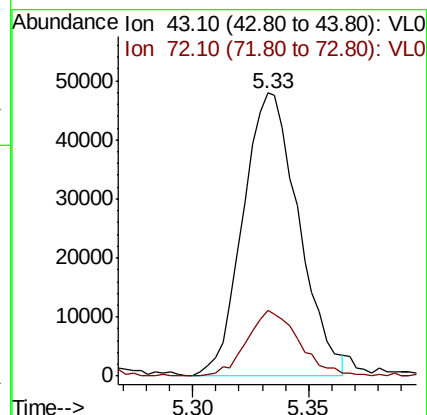
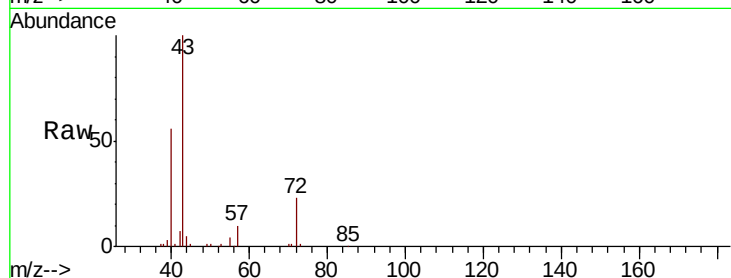
ClientSampled :

Tot Ion: 43 Resp: 80151

Ion Ratio Lower Upper

43 100

72 21.7 17.7 26.5



#35

Carbon Tetrachloride

Concen: 0.024 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.01 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

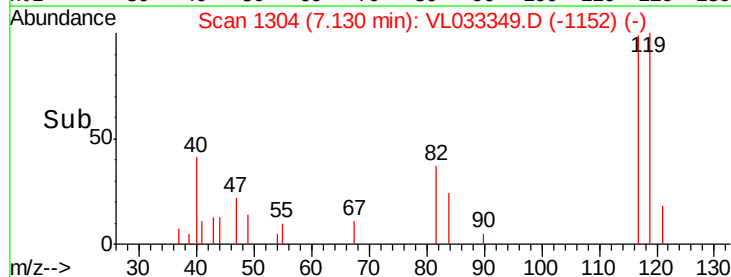
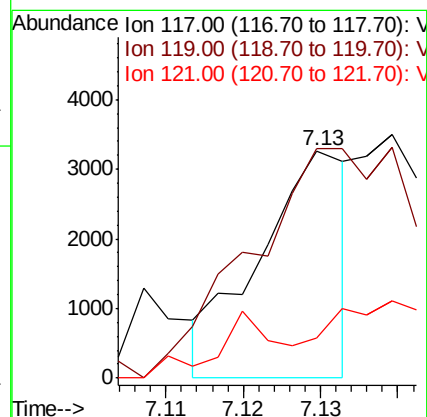
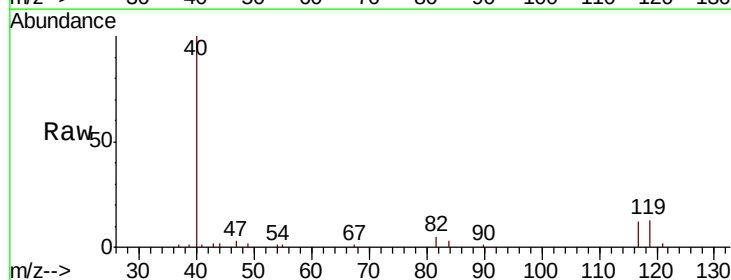
Tgt Ion: 117 Resp: 2587

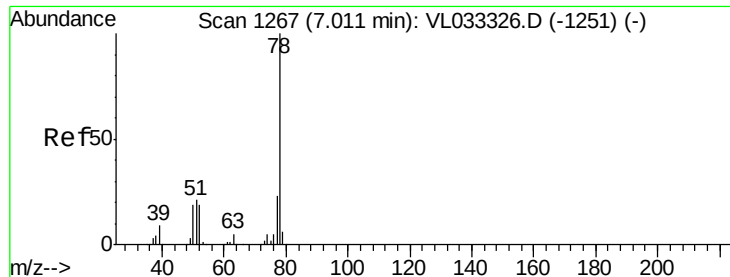
Ion Ratio Lower Upper

117 100

119 104.6 77.4 116.0

121 16.9 24.9 37.3#

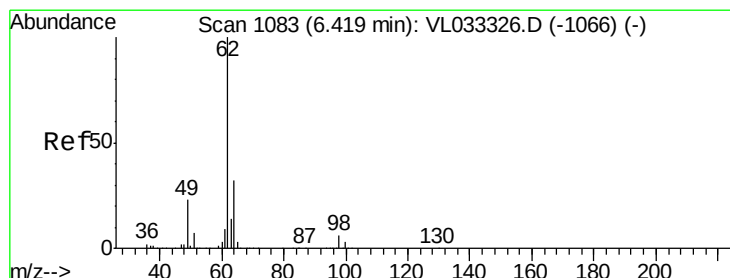
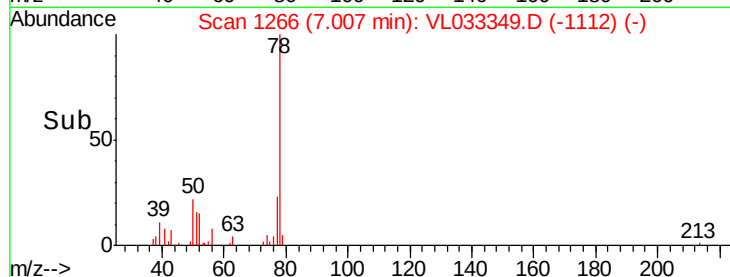
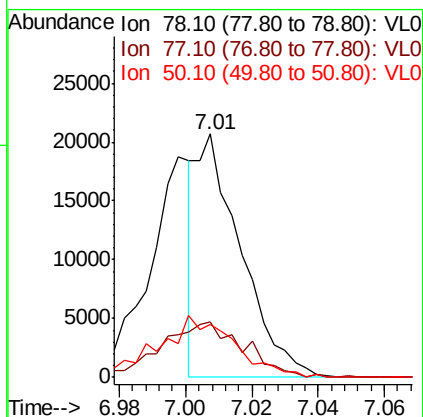
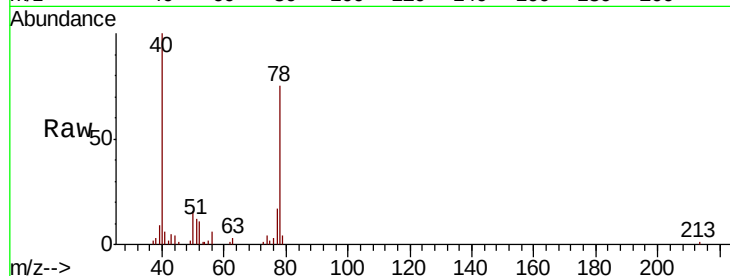




#36
Benzene
Concen: 0.137 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. -0.00 min
Lab File: VL033349.D
Acq: 16 Mar 2019 3:04

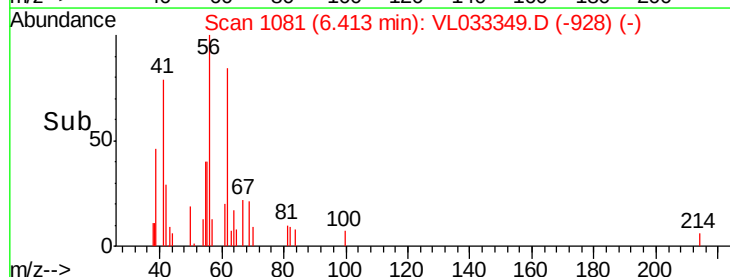
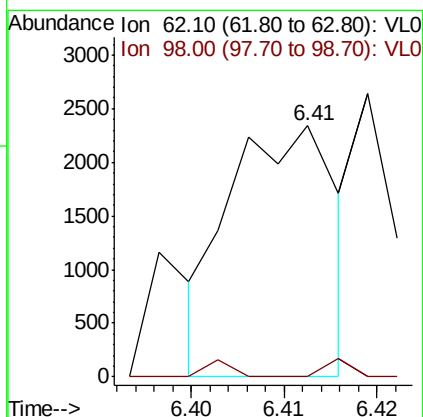
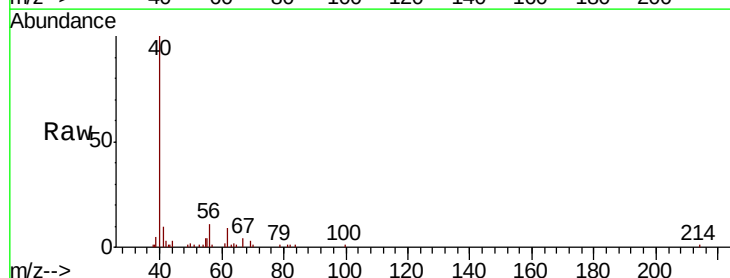
Instrument :
MSVOA_L
ClientSampled :

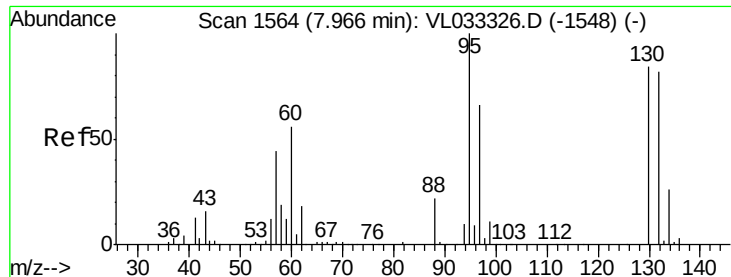
Tot Ion: 78 Resp: 19151
Ion Ratio Lower Upper
78 100
77 22.7 18.1 27.1
50 21.8 15.2 22.8



#37
1,2-Dichloroethane
Concen: 0.021 ppbv
RT: 6.41 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VL033349.D
Acq: 16 Mar 2019 3:04

Tgt Ion: 62 Resp: 1860
Ion Ratio Lower Upper
62 100
98 0.0 4.5 6.7#





#38

Trichloroethene

Concen: 0.048 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:130 Resp: 2555

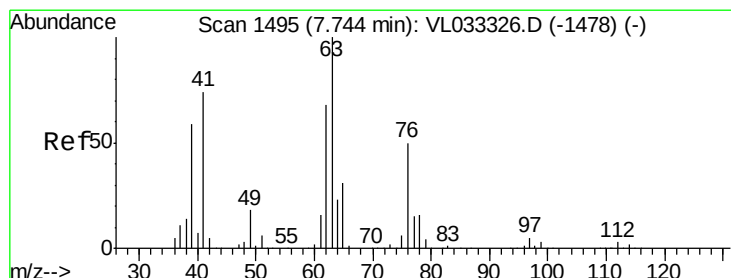
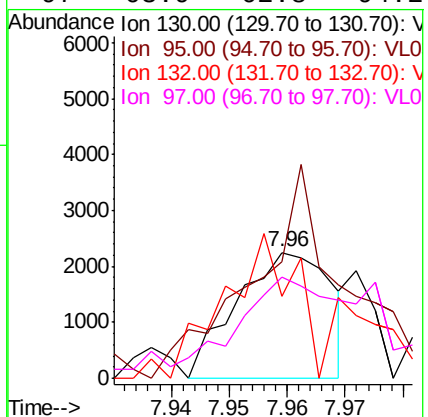
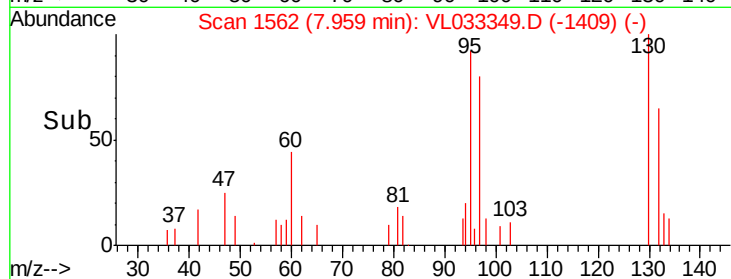
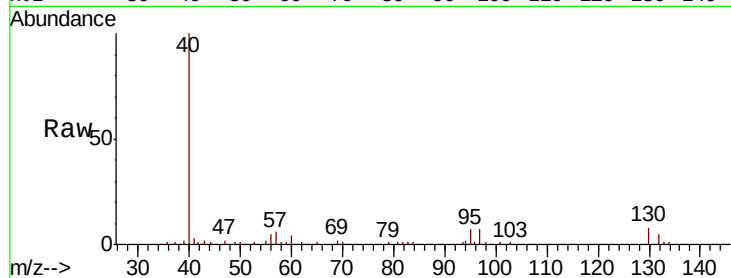
Ion Ratio Lower Upper

130 100

95 53.1 95.2 142.8#

132 21.3 77.7 116.5#

97 63.9 62.8 94.2



#39

1,2-Dichloropropane

Concen: 8.081 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

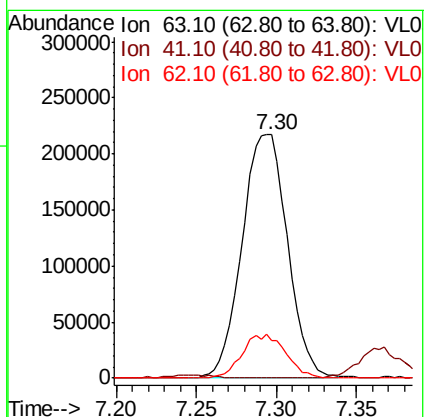
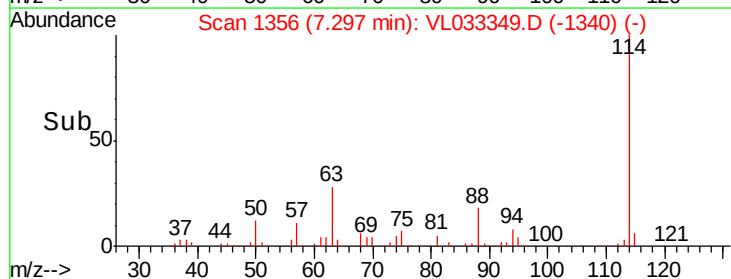
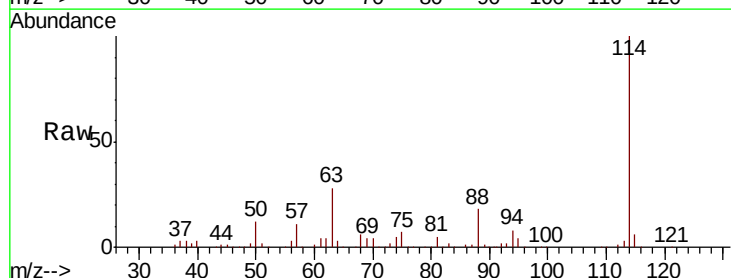
Tgt Ion: 63 Resp: 421670

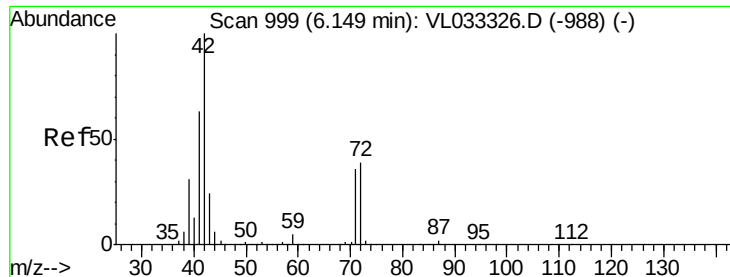
Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

62 15.4 54.7 82.1#





#41

Tetrahydrofuran

Concen: 1.530 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.37 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

Instrument :

MSVOA_L

ClientSampleId :

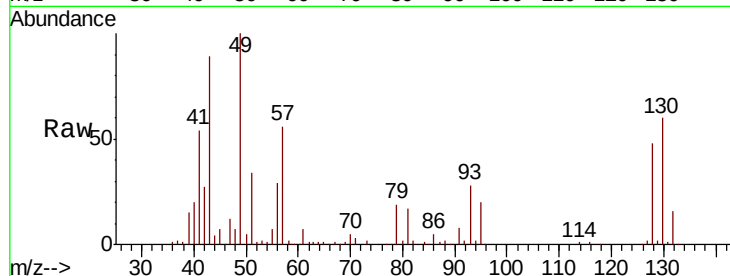
Tot Ion: 42 Resp: 83495

Ion Ratio Lower Upper

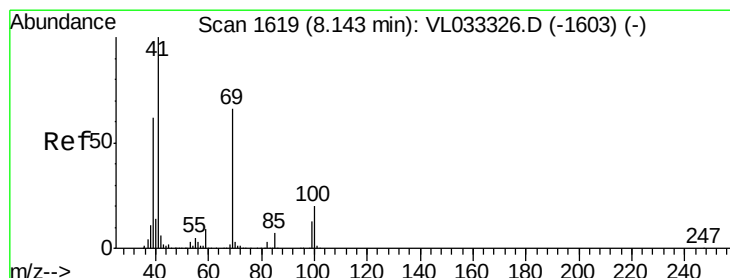
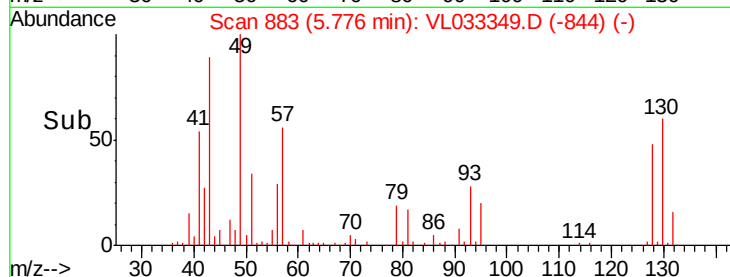
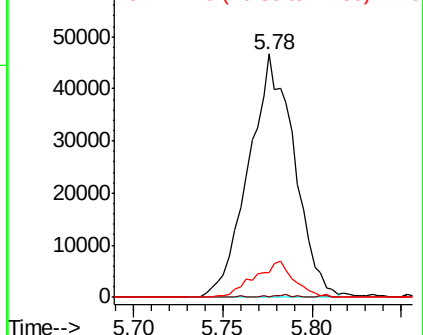
42 100

72 0.5 31.6 47.4#

71 13.0 29.9 44.9#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#43

Methyl Methacrylate

Concen: 0.085 ppbv

RT: 8.14 min Scan# 1617

Delta R.T. -0.01 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

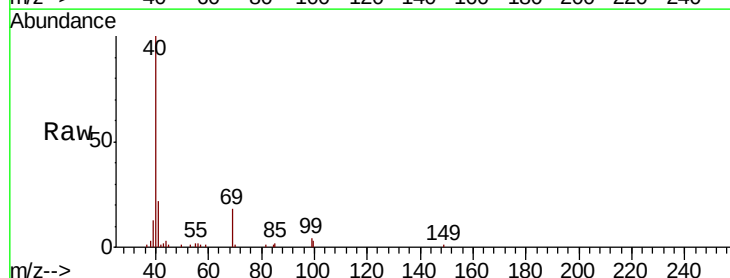
Tgt Ion: 69 Resp: 4638

Ion Ratio Lower Upper

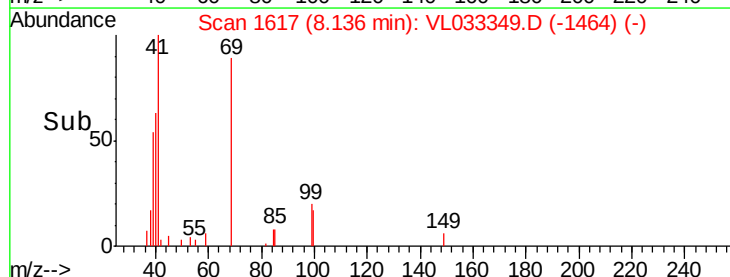
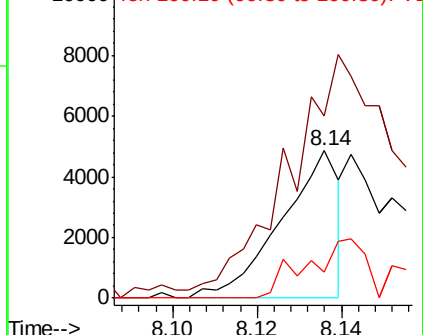
69 100

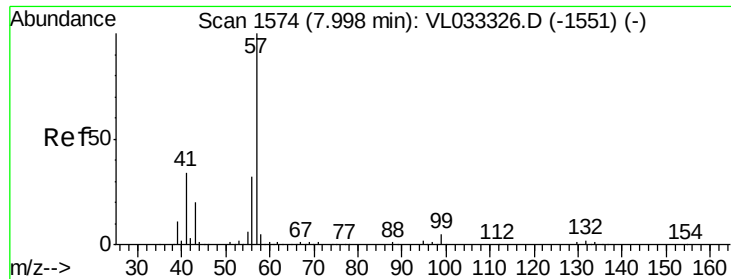
41 0.0 119.5 179.3#

100 0.0 24.4 36.6#



Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.203 ppbv

RT: 7.99 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

Instrument :

MSVOA_L

ClientSampled :

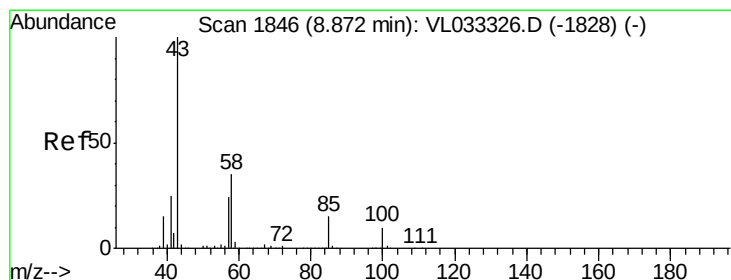
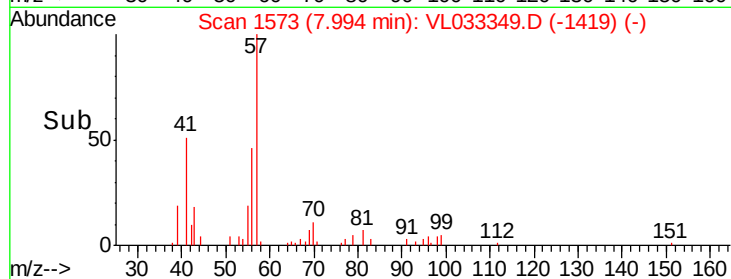
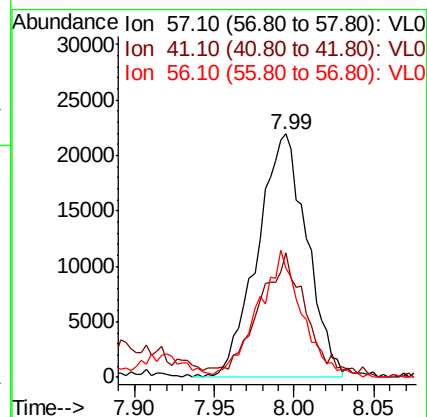
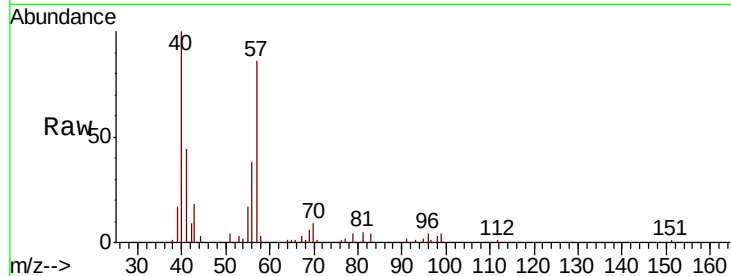
Tot Ion: 57 Resp: 46913

Ion Ratio Lower Upper

57 100

41 50.8 26.0 39.0#

56 47.2 24.6 36.8#



#50

4-Methyl-2-Pentanone

Concen: 0.998 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. 0.00 min

Lab File: VL033349.D

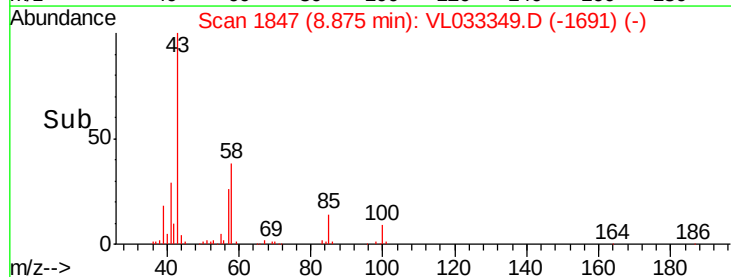
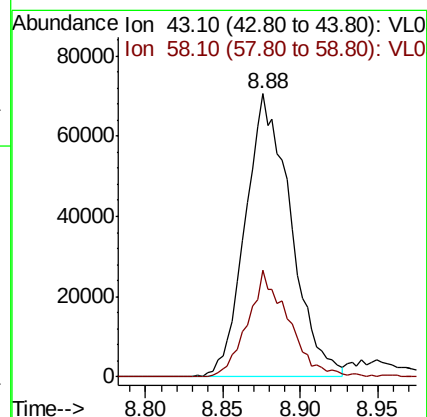
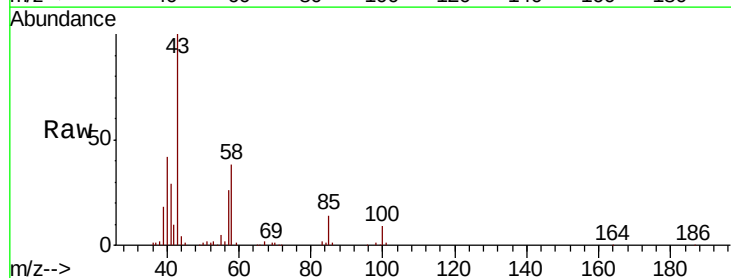
Acq: 16 Mar 2019 3:04

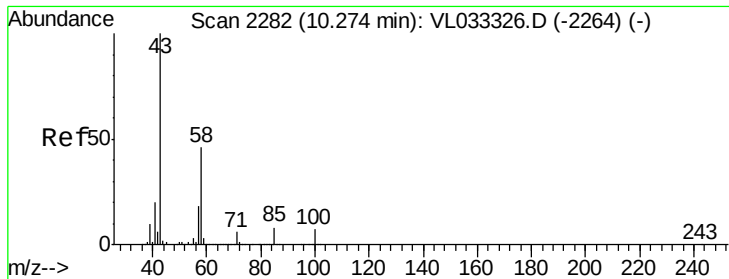
Tgt Ion: 43 Resp: 144107

Ion Ratio Lower Upper

43 100

58 34.2 28.4 42.6

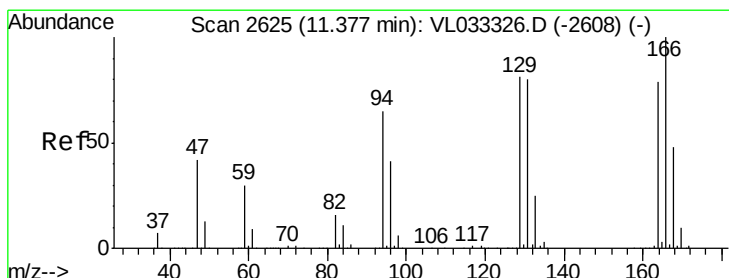
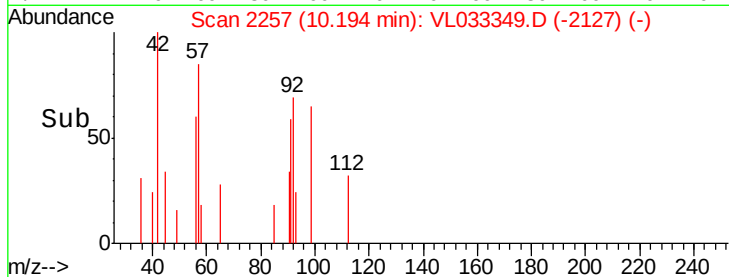
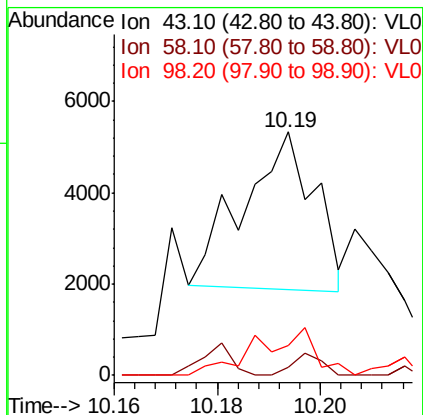
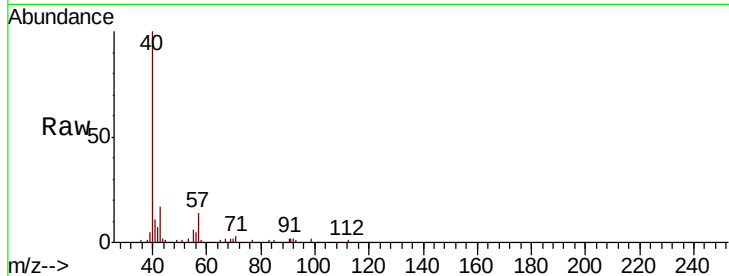




#51
2-Hexanone
Concen: 0.030 ppbv
RT: 10.19 min Scan# 2257
Delta R.T. -0.08 min
Lab File: VL033349.D
Acq: 16 Mar 2019 3:04

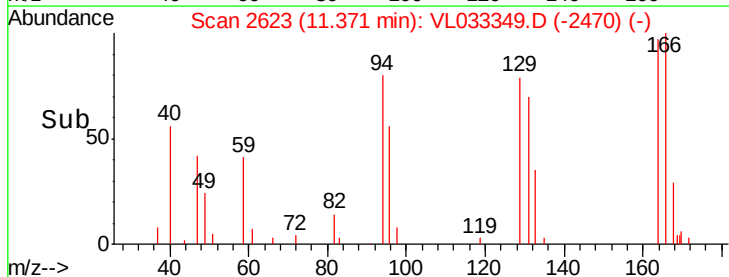
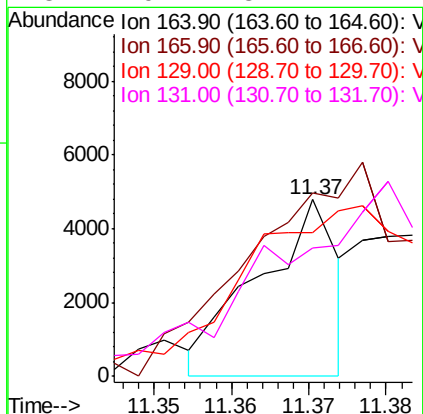
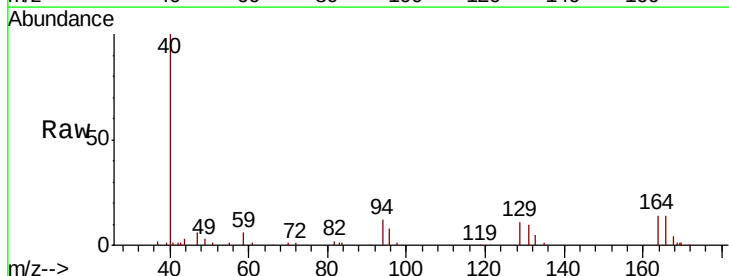
Instrument :
MSVOA_L
ClientSampleId :

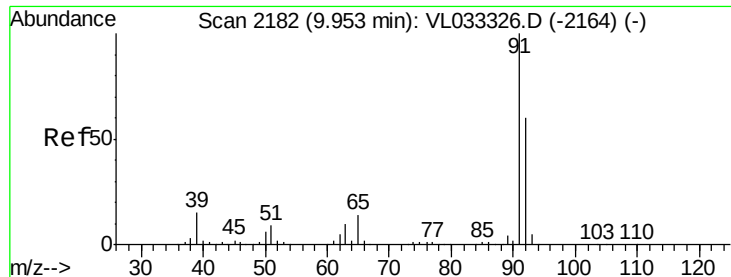
Tot Ion: 43 Resp: 3290
Ion Ratio Lower Upper
43 100
58 15.7 38.0 57.0#
98 29.3 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.059 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.01 min
Lab File: VL033349.D
Acq: 16 Mar 2019 3:04

Tgt Ion: 164 Resp: 3424
Ion Ratio Lower Upper
164 100
166 85.6 101.5 152.3#
129 66.4 82.2 123.2#
131 49.2 81.1 121.7#





#53

Toluene

Concen: 30.635 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

Instrument :

MSVOA_L

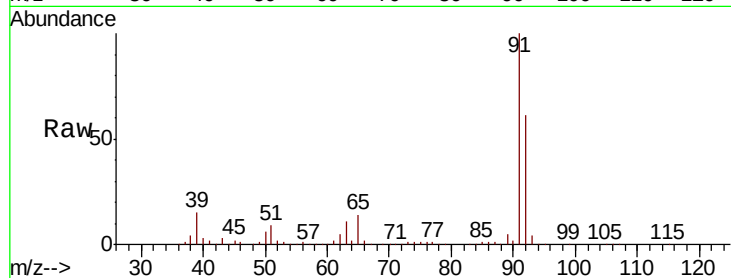
ClientSampled :

Tot Ion: 91 Resp: 4850528

Ion Ratio Lower Upper

91 100

92 59.9 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.95

2500000

2000000

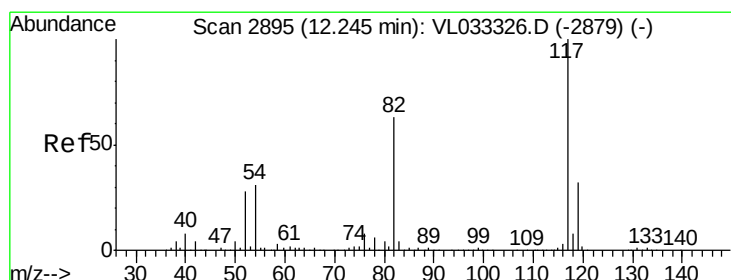
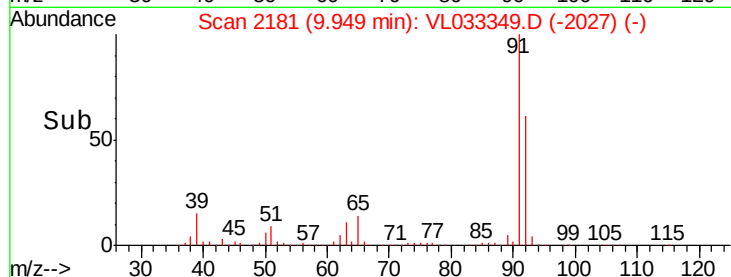
1500000

1000000

500000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

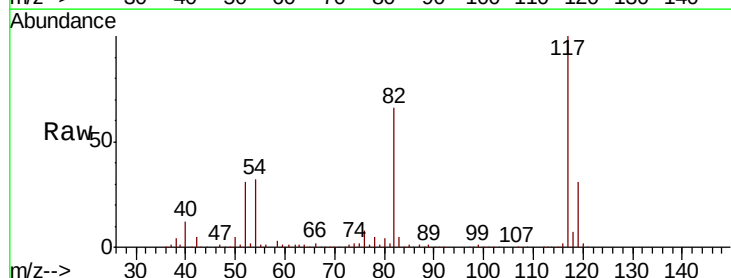
Tgt Ion: 117 Resp: 1742288

Ion Ratio Lower Upper

117 100

82 67.5 53.4 80.2

119 32.1 27.3 40.9



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

12.24

1000000

800000

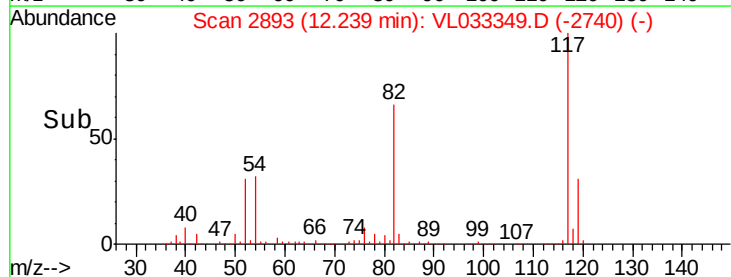
600000

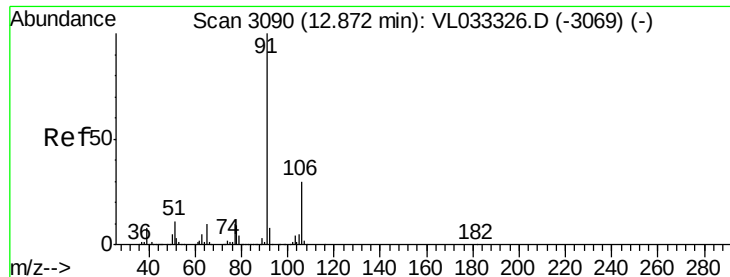
400000

200000

0

Time-->





#58

Ethyl Benzene

Concen: 0.679 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. -0.01 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

Instrument :

MSVOA_L

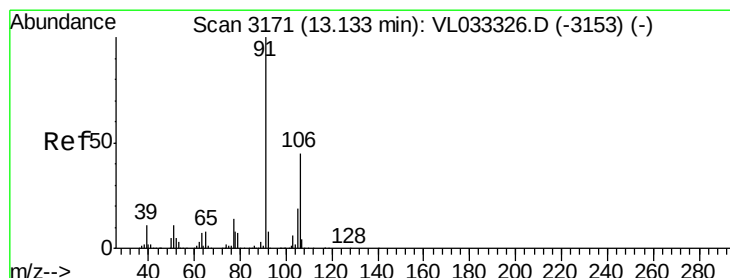
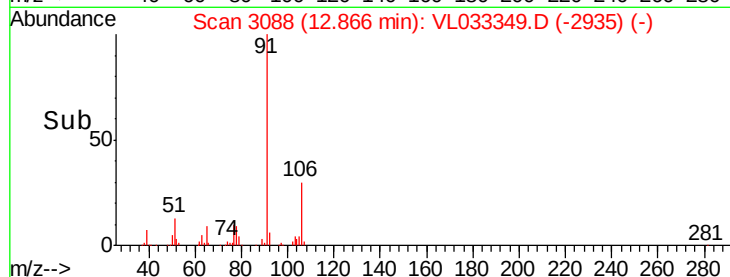
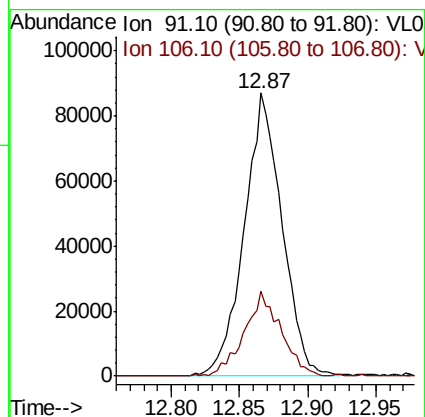
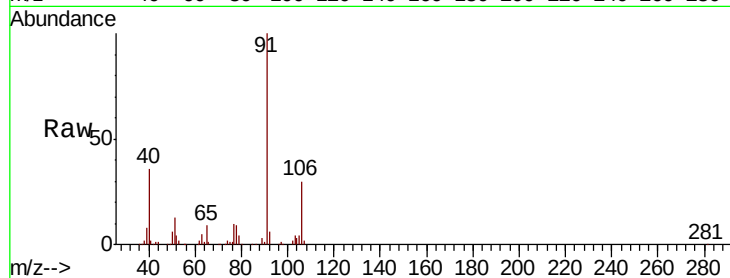
ClientSampleId :

Tot Ion: 91 Resp: 167271

Ion Ratio Lower Upper

91 100

106 30.1 24.2 36.2



#59

m/p-Xylene

Concen: 0.574 ppbv

RT: 13.12 min Scan# 3167

Delta R.T. -0.01 min

Lab File: VL033349.D

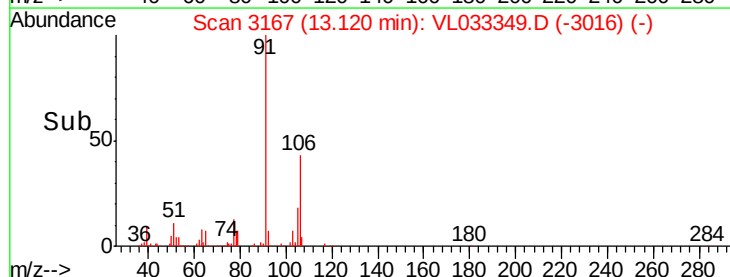
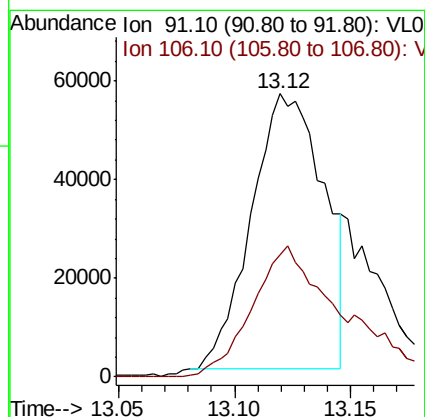
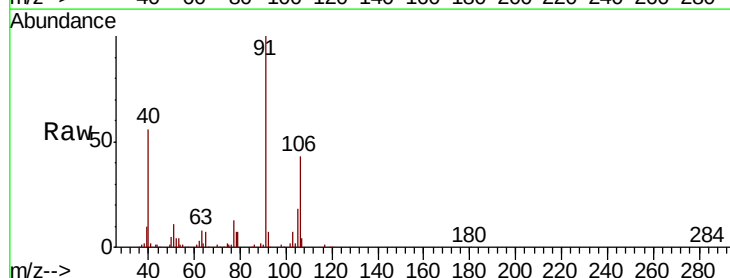
Acq: 16 Mar 2019 3:04

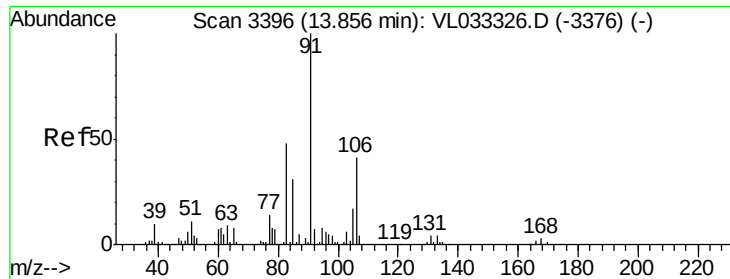
Tgt Ion: 91 Resp: 121572

Ion Ratio Lower Upper

91 100

106 58.7 0.0 0.0#

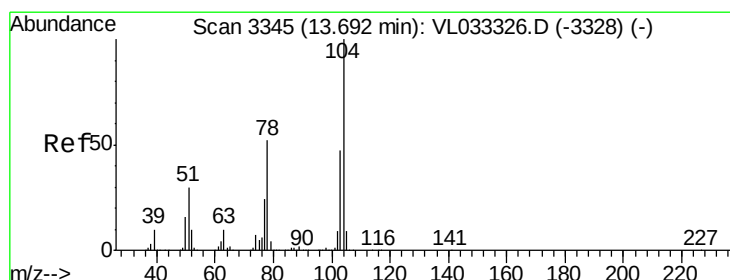
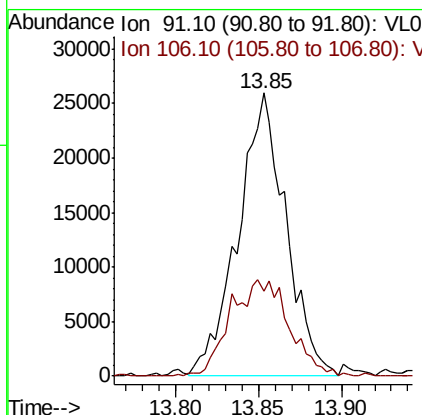
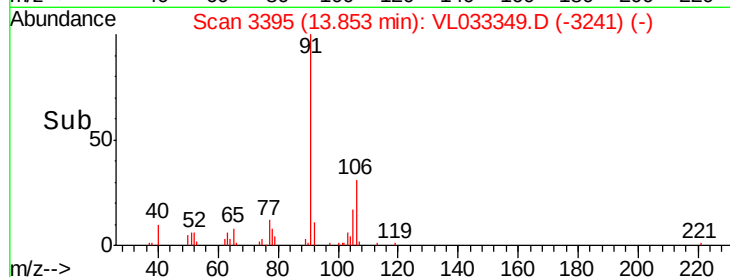
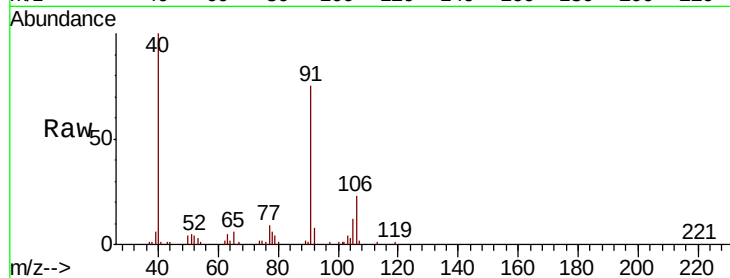




#60
o-Xylene
Concen: 0.252 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033349.D
Acq: 16 Mar 2019 3:04

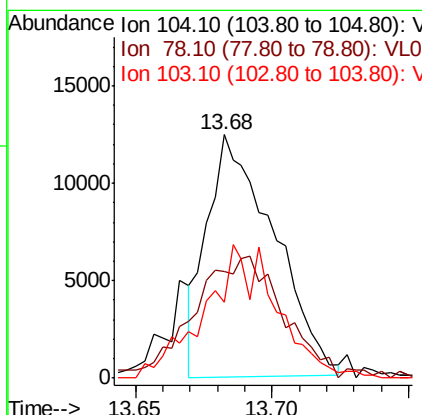
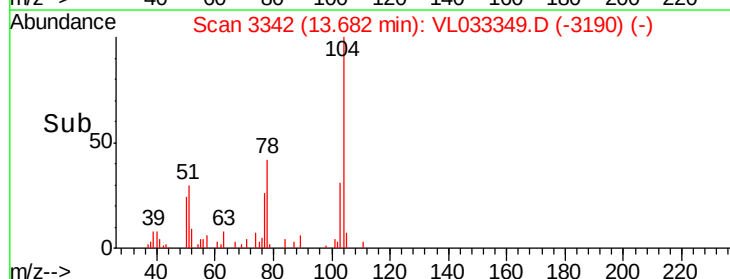
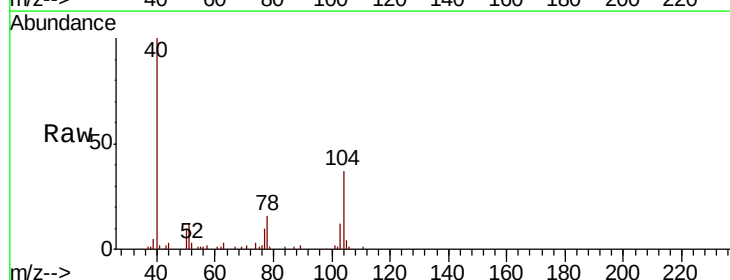
Instrument :
MSVOA_L
ClientSampled :

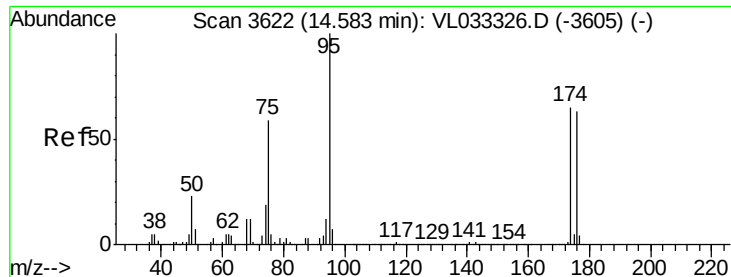
Tot Ion: 91 Resp: 52072
Ion Ratio Lower Upper
91 100
106 41.8 21.3 63.9



#61
Styrene
Concen: 0.147 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. -0.01 min
Lab File: VL033349.D
Acq: 16 Mar 2019 3:04

Tgt Ion:104 Resp: 21201
Ion Ratio Lower Upper
104 100
78 69.9 42.7 64.1#
103 59.6 38.0 57.0#

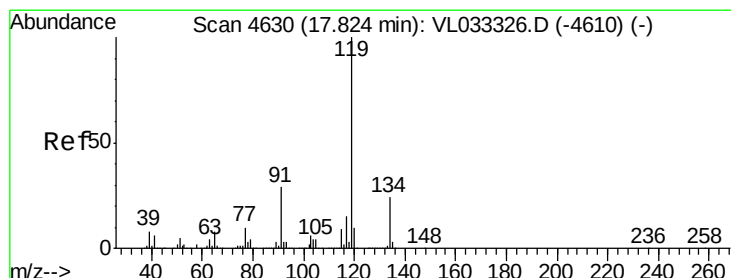
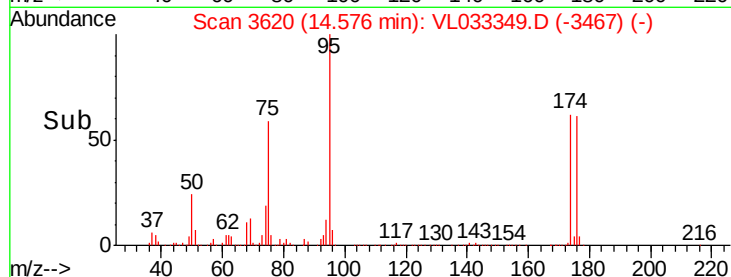
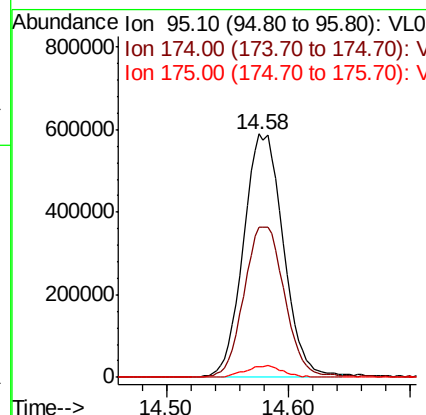
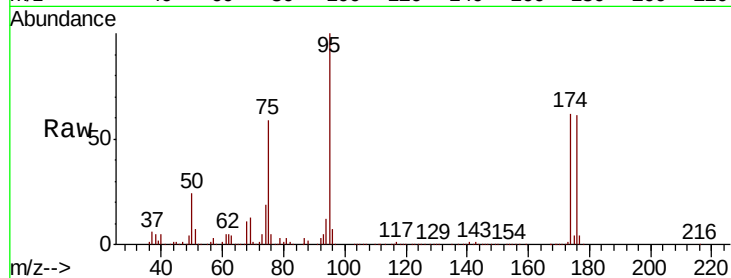




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.301 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033349.D
 Acq: 16 Mar 2019 3:04

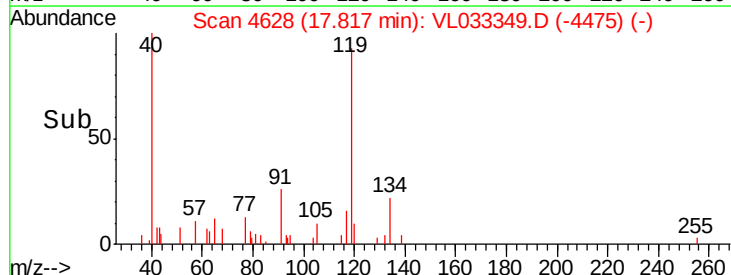
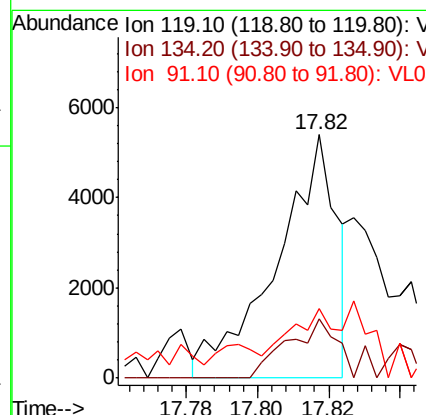
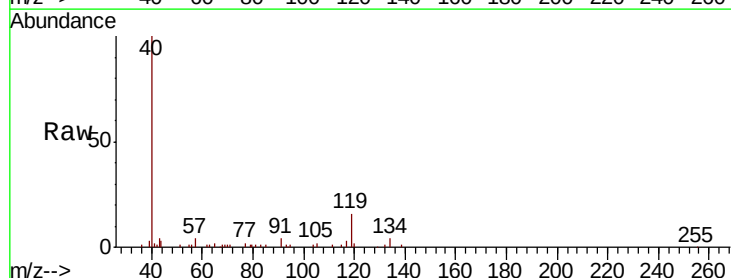
Instrument :
 MSVOA_L
 ClientSampleId :

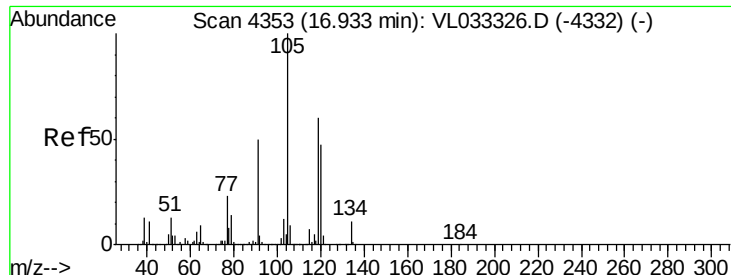
Tot Ion: 95 Resp: 1329907
 Ion Ratio Lower Upper
 95 100
 174 63.8 51.5 77.3
 175 4.6 3.8 5.6



#69
 p-Isopropyltoluene
 Concen: 0.021 ppbv
 RT: 17.82 min Scan# 4628
 Delta R.T. -0.01 min
 Lab File: VL033349.D
 Acq: 16 Mar 2019 3:04

Tgt Ion: 119 Resp: 6306
 Ion Ratio Lower Upper
 119 100
 134 27.4 19.8 29.6
 91 0.0 23.4 35.2#





#74

1,2,4-Trimethylbenzene

Concen: 0.133 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL033349.D

Acq: 16 Mar 2019 3:04

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 32256

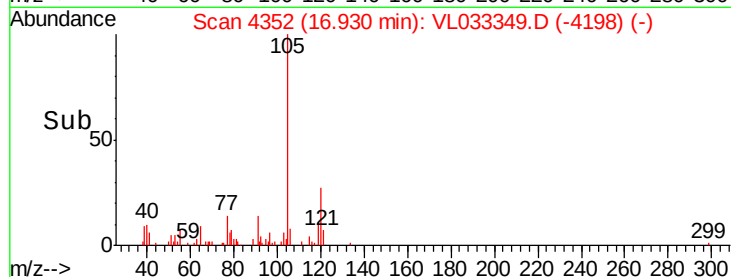
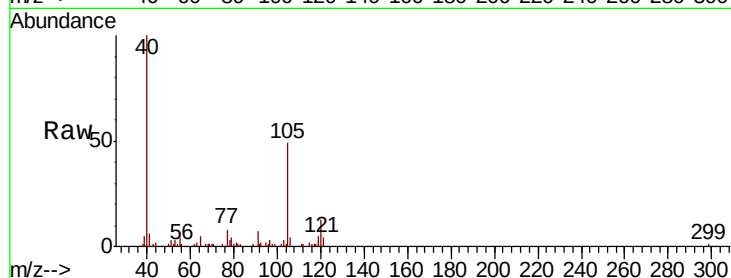
Ion Ratio Lower Upper

105 100

120 27.3 37.4 56.2#

91 14.2 41.0 61.4#

77 15.7 18.5 27.7#



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

