

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033346.D
 Acq On : 16 Mar 2019 1:03
 Operator : SY/AP
 Sample : K1827-07DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 16 03:59:46 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

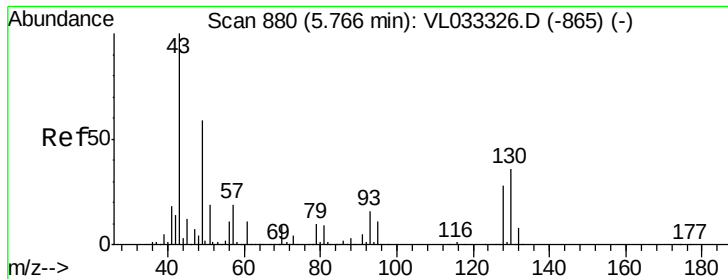
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	871124	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1944080	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1835979	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1403586	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	7369	0.048 ppbv	98
3) Chlorodifluoromethane	3.01	51	27391	0.274 ppbv #	85
4) Chloromethane	3.16	50	1272	0.023 ppbv #	86
9) Propene	3.24	41	42598	0.954 ppbv	90
10) Heptane	8.25	43	3662	0.033 ppbv #	53
11) Trichlorofluoromethane	4.00	101	3147	0.021 ppbv	84
13) Ethanol	3.65	45	214085	10.061 ppbv	99
15) Acetone	3.91	43	94768	0.700 ppbv	98
16) 1,3-Butadiene	3.35	39	2819	0.064 ppbv #	10
17) tert-Butyl alcohol	4.38	59	2857	0.150 ppbv #	74
19) Isopropyl Alcohol	4.03	45	42011	0.652 ppbv #	88
20) Methylene Chloride	4.41	84	6253	0.142 ppbv #	84
25) Ethyl Acetate	5.77	43	41336	0.210 ppbv #	95
26) Hexane	5.78	57	13611	0.155 ppbv #	64
34) 2-Butanone	5.34	43	4994	0.039 ppbv #	54
39) 1,2-Dichloropropane	7.29	63	523084	8.028 ppbv #	24
53) Toluene	9.95	91	244688	1.238 ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL033346.D

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MSVOA_L
ClientSampleId :

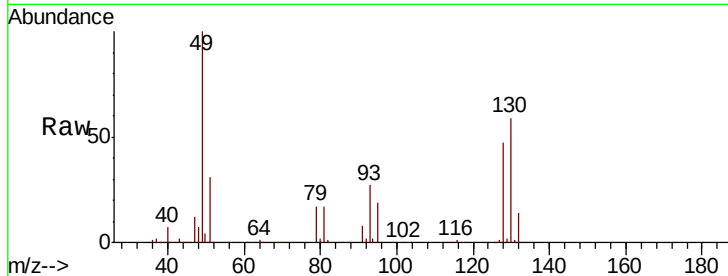
Tot Ion: 49 Resp: 871124

Ion Ratio Lower Upper

49 100

128 47.0 23.5 70.6

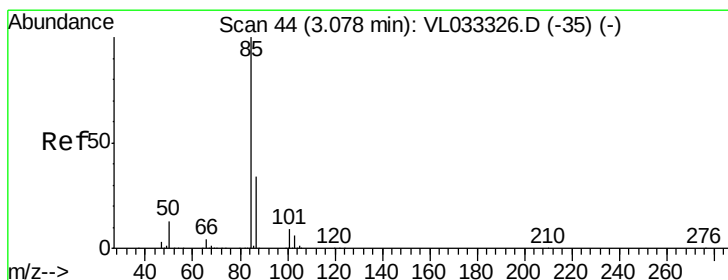
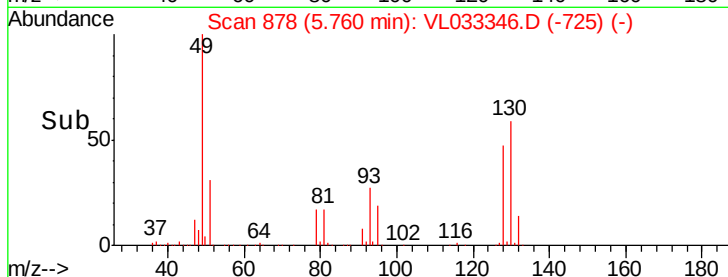
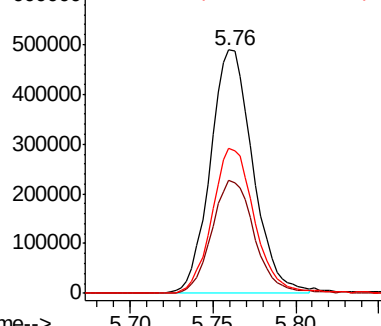
130 60.1 30.1 90.3



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: 0.048 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033346.D

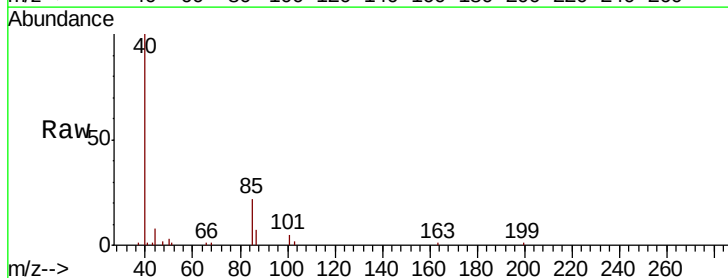
Acq: 16 Mar 2019 1:03

Tgt Ion: 85 Resp: 7369

Ion Ratio Lower Upper

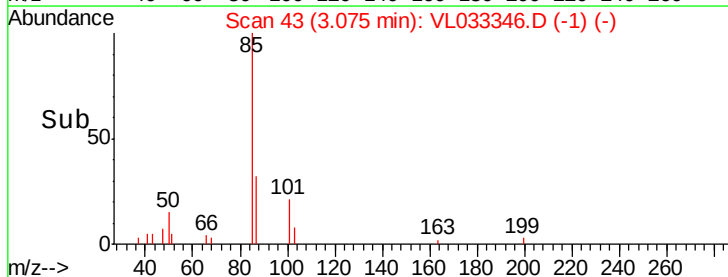
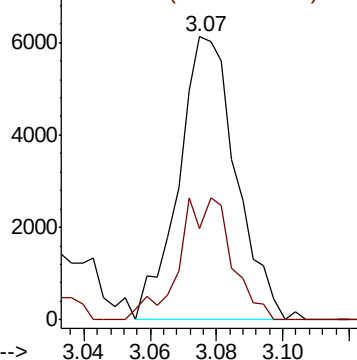
85 100

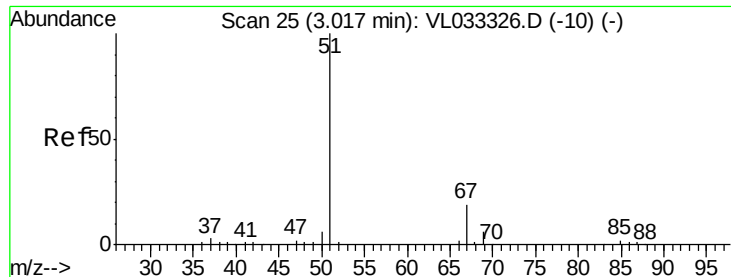
87 32.4 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.274 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033346.D

Acq: 16 Mar 2019 1:03

Instrument :

MSVOA_L

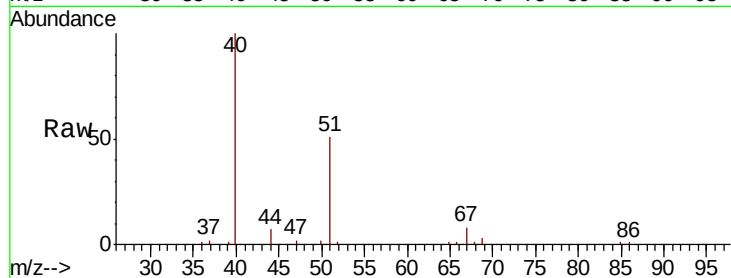
ClientSampleId :

Tot Ion: 51 Resp: 27391

Ion Ratio Lower Upper

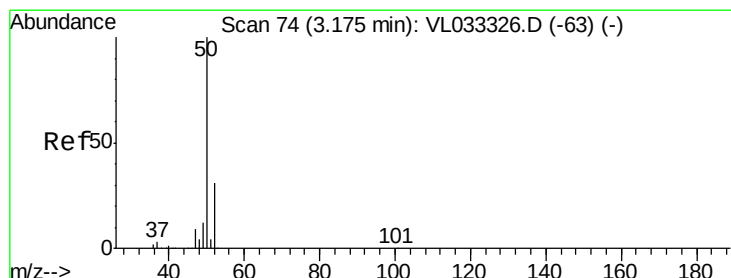
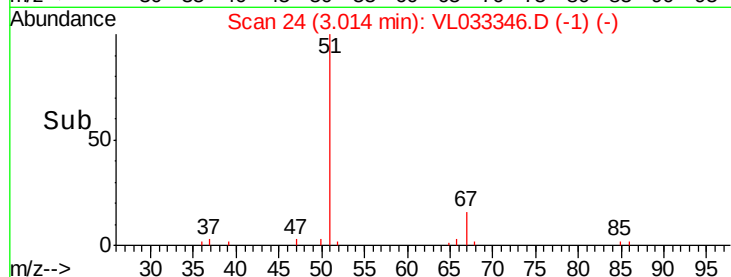
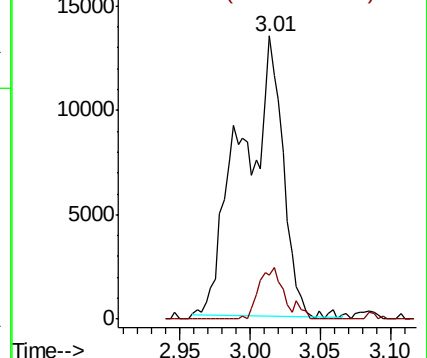
51 100

67 11.7 14.9 22.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.023 ppbv

RT: 3.16 min Scan# 71

Delta R.T. -0.01 min

Lab File: VL033346.D

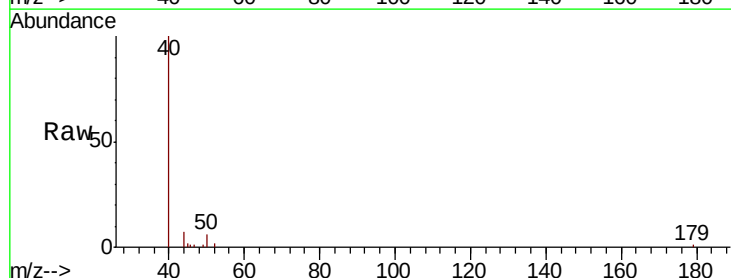
Acq: 16 Mar 2019 1:03

Tgt Ion: 50 Resp: 1272

Ion Ratio Lower Upper

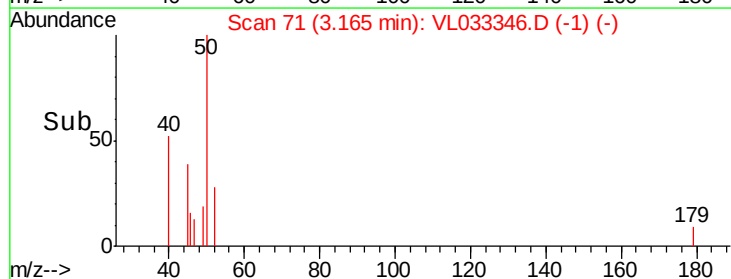
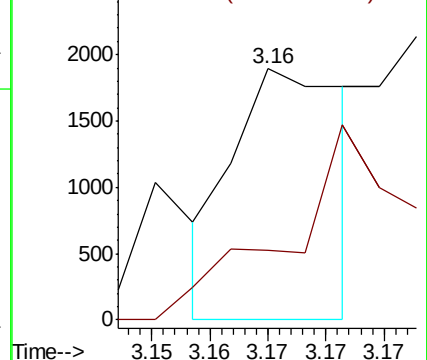
50 100

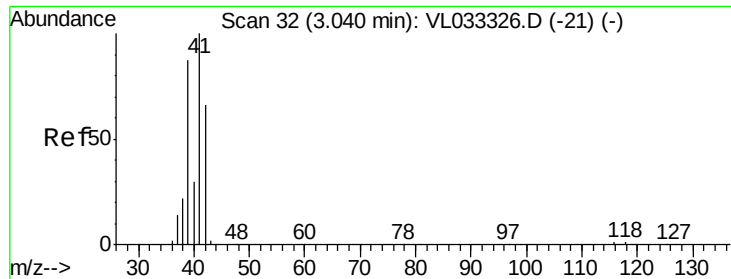
52 23.7 25.0 37.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.954 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL033346.D

Acq: 16 Mar 2019 1:03

Instrument :

MSVOA_L

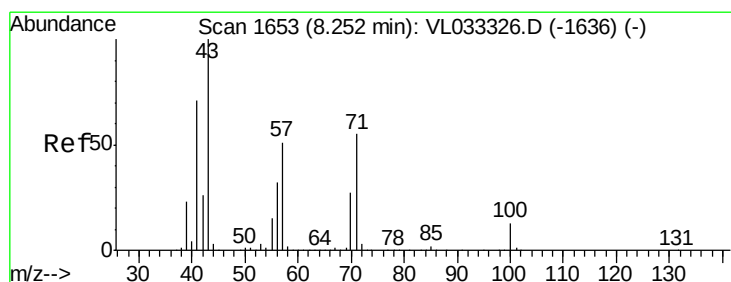
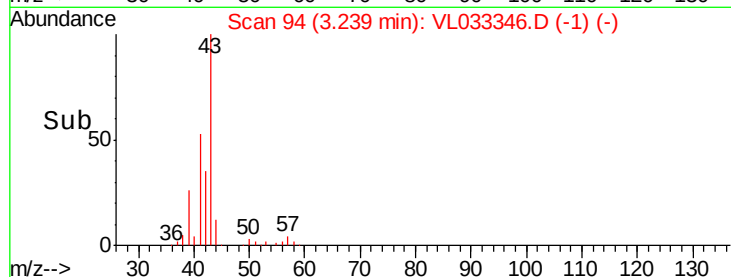
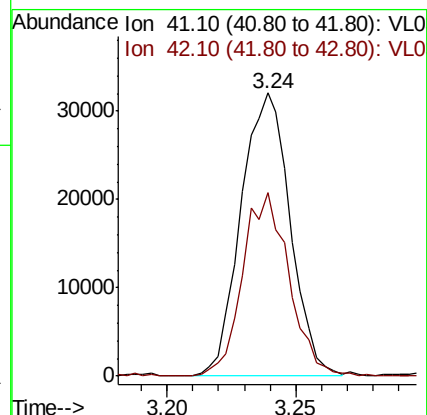
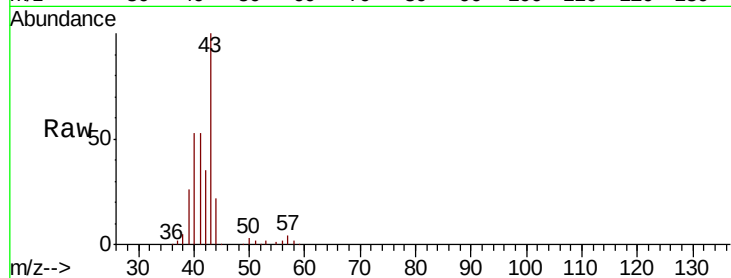
ClientSampleId :

Tot Ion: 41 Resp: 42598

Ion Ratio Lower Upper

41 100

42 60.9 55.2 82.8



#10

Heptane

Concen: 0.033 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL033346.D

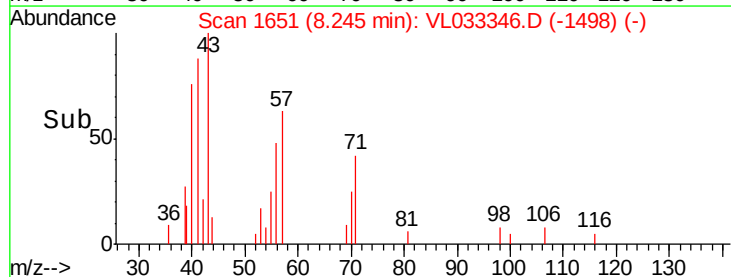
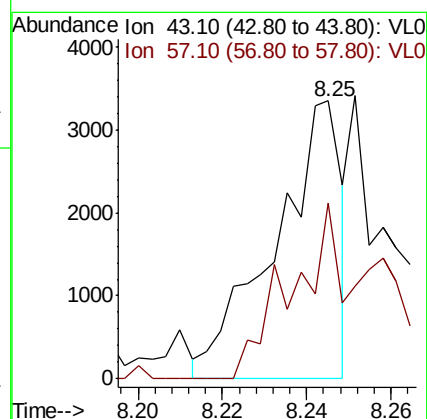
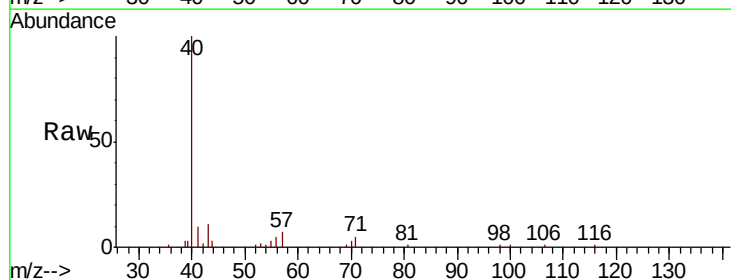
Acq: 16 Mar 2019 1:03

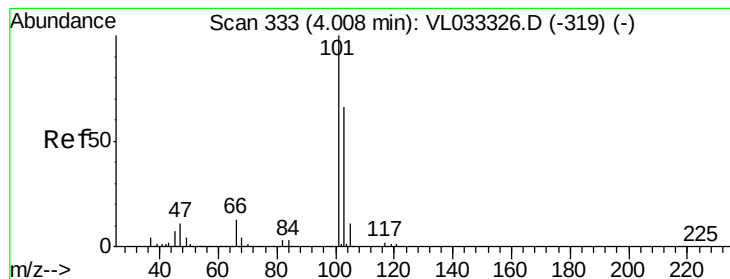
Tgt Ion: 43 Resp: 3662

Ion Ratio Lower Upper

43 100

57 83.1 40.4 60.6#





#11

Trichlorofluoromethane

Concen: 0.021 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033346.D

Acq: 16 Mar 2019 1:03

Instrument :

MSVOA_L

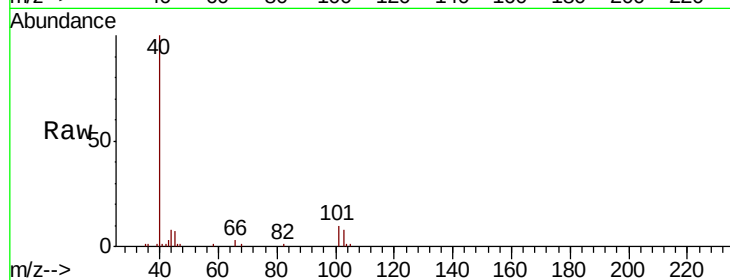
ClientSampleId :

Tot Ion:101 Resp: 3147

Ion Ratio Lower Upper

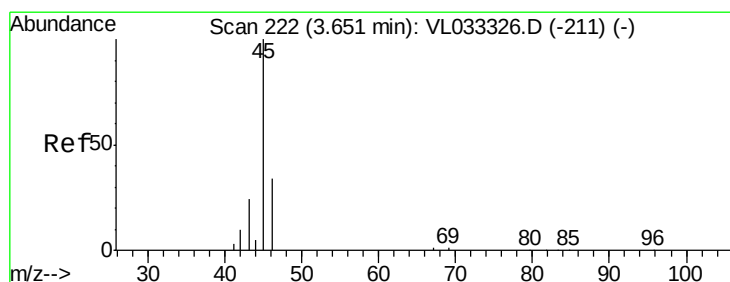
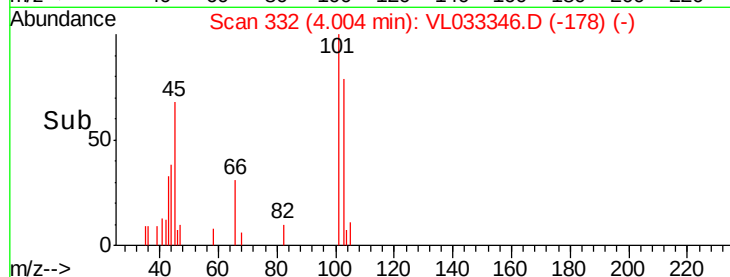
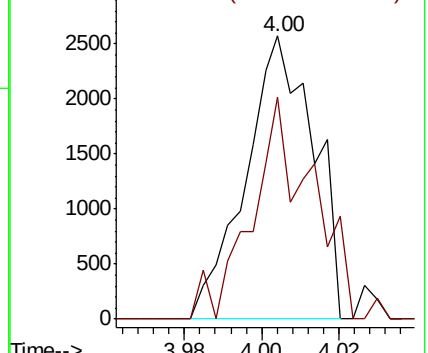
101 100

103 78.6 52.9 79.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 10.061 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033346.D

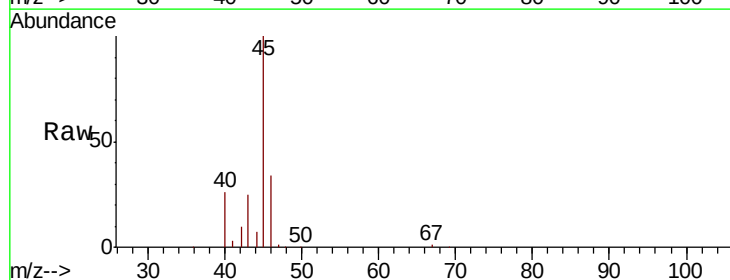
Acq: 16 Mar 2019 1:03

Tgt Ion: 45 Resp: 214085

Ion Ratio Lower Upper

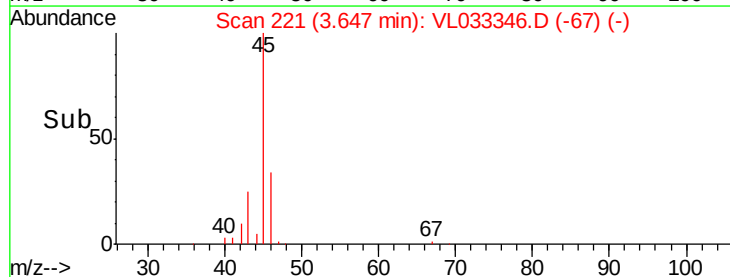
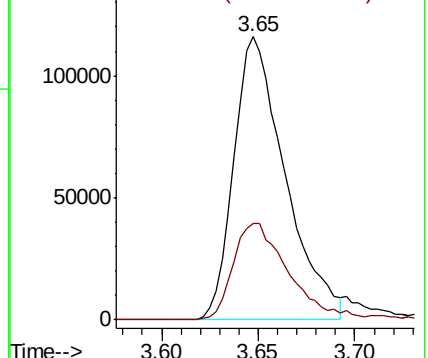
45 100

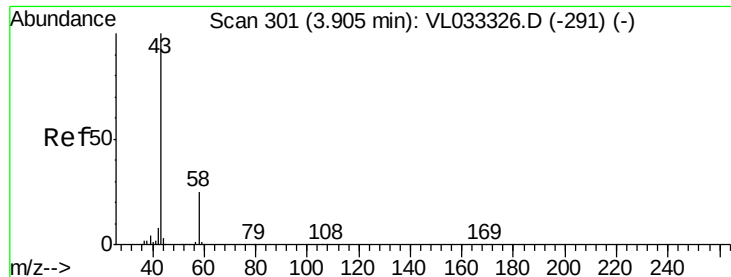
46 38.1 14.9 59.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.700 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033346.D

Acq: 16 Mar 2019 1:03

Instrument :

MSVOA_L

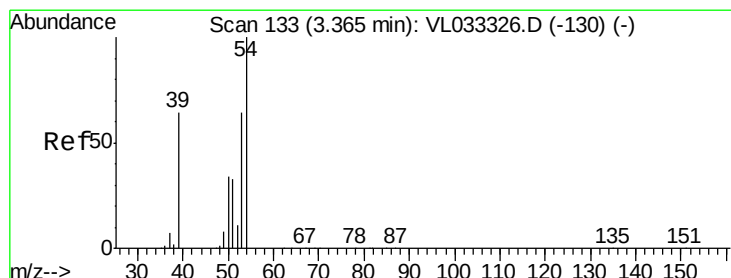
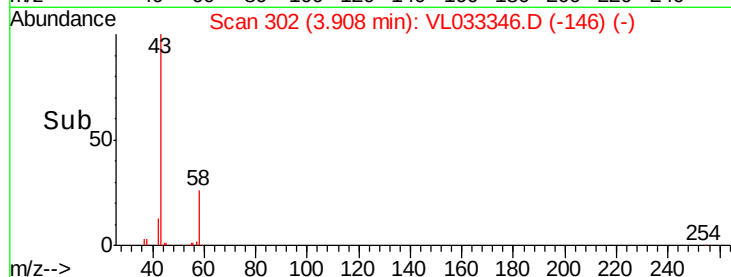
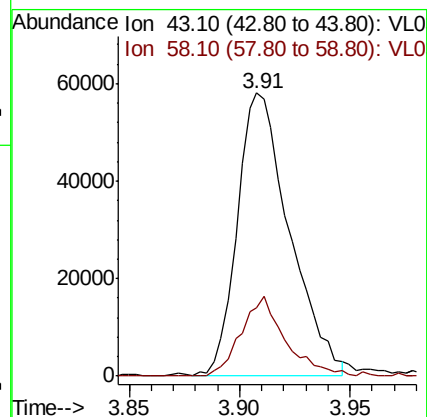
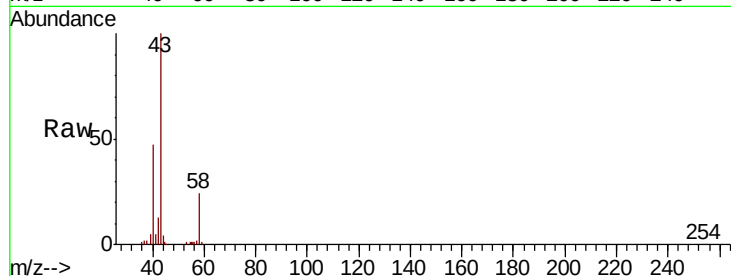
ClientSampleId :

Tot Ion: 43 Resp: 94768

Ion Ratio Lower Upper

43 100

58 24.6 20.4 30.6



#16

1,3-Butadiene

Concen: 0.064 ppbv

RT: 3.35 min Scan# 127

Delta R.T. -0.02 min

Lab File: VL033346.D

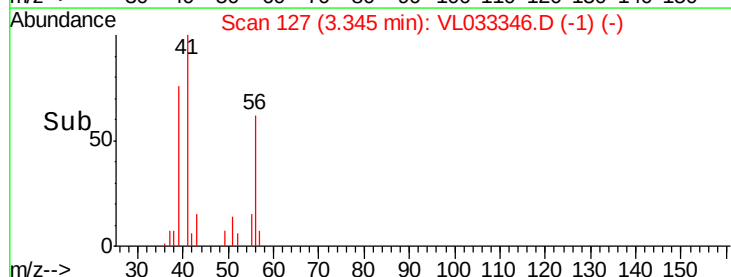
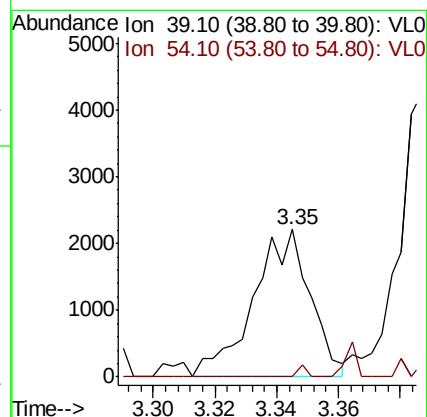
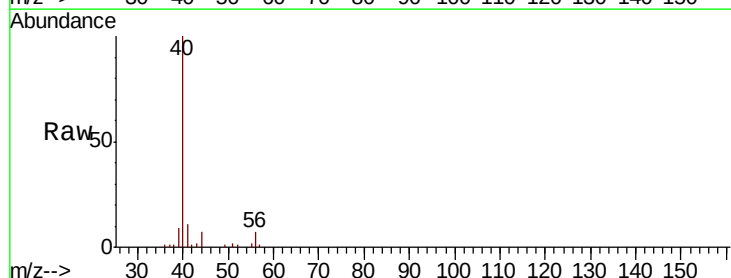
Acq: 16 Mar 2019 1:03

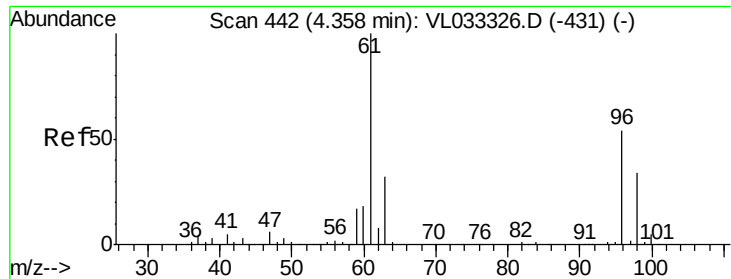
Tgt Ion: 39 Resp: 2819

Ion Ratio Lower Upper

39 100

54 7.8 76.8 115.2#





#17

tert-Butyl alcohol

Concen: 0.150 ppbv

RT: 4.38 min Scan# 449

Delta R.T. 0.02 min

Lab File: VL033346.D

Acq: 16 Mar 2019 1:03

Instrument :

MSVOA_L

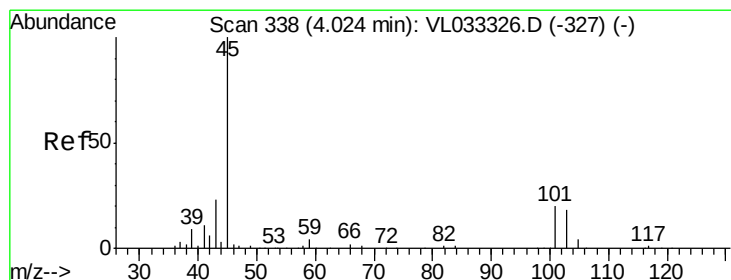
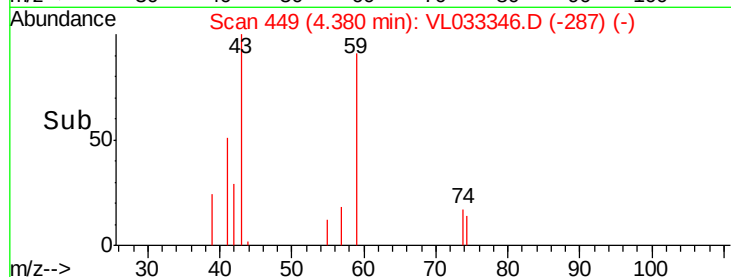
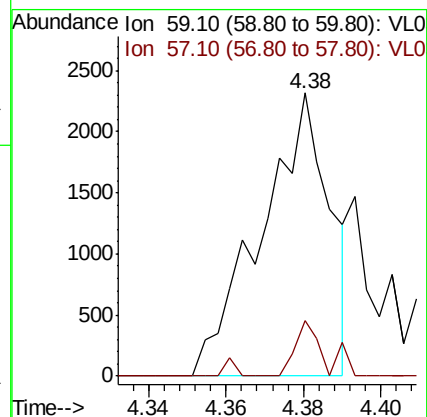
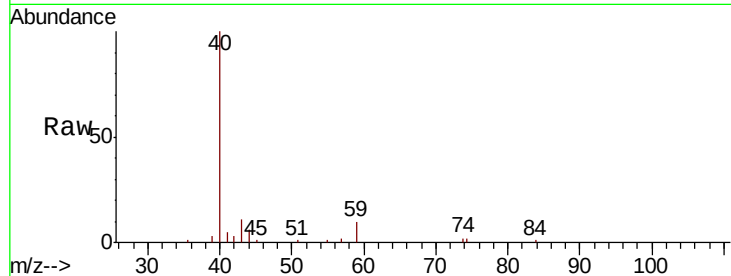
ClientSampled :

Tot Ion: 59 Resp: 2857

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



#19

Isopropyl Alcohol

Concen: 0.652 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033346.D

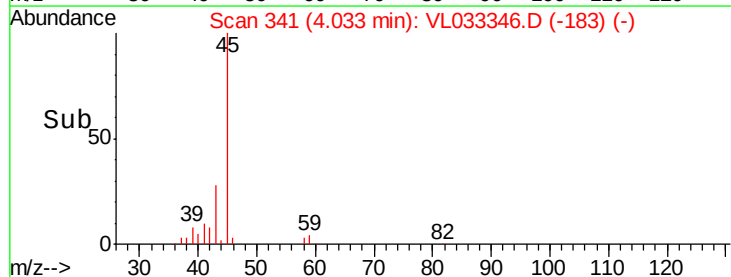
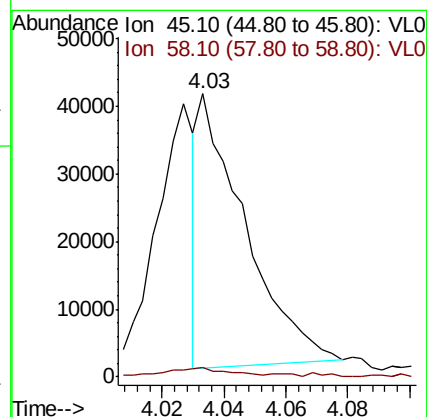
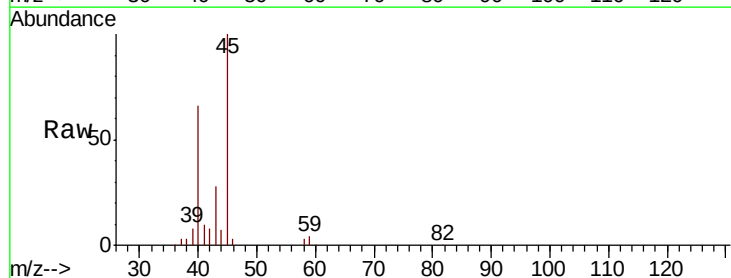
Acq: 16 Mar 2019 1:03

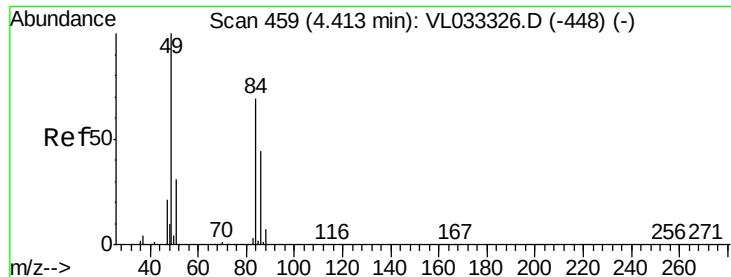
Tgt Ion: 45 Resp: 42011

Ion Ratio Lower Upper

45 100

58 6.3 1.5 2.3#

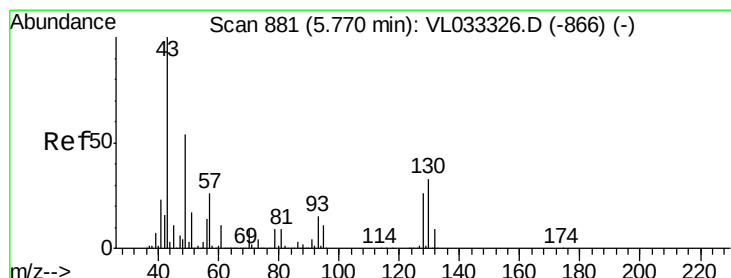
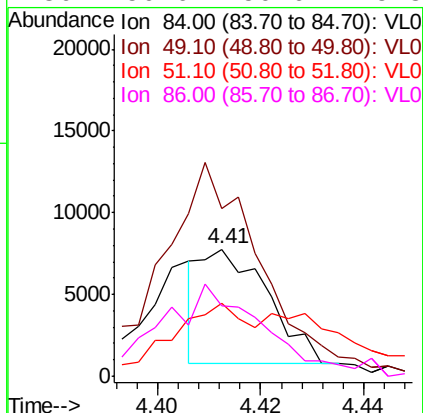
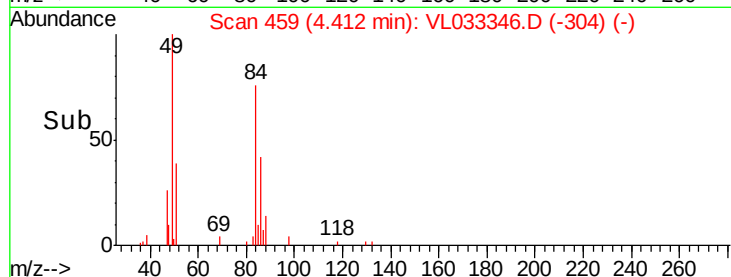
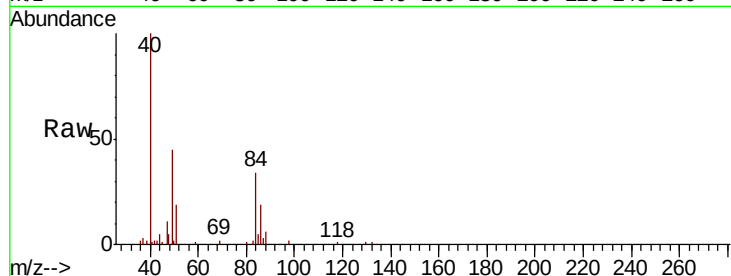




#20
Methylene Chloride
Concen: 0.142 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL033346.D
Acq: 16 Mar 2019 1:03

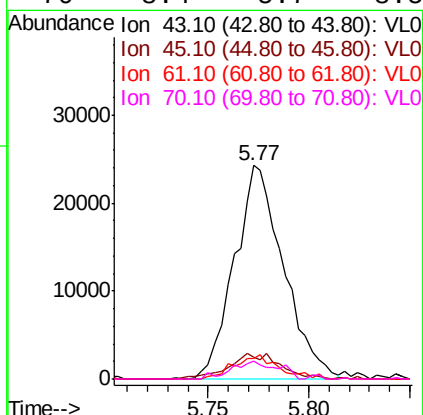
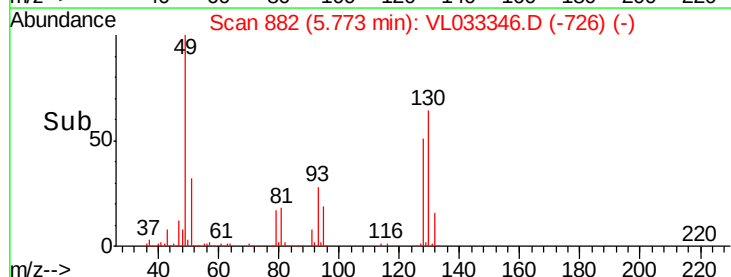
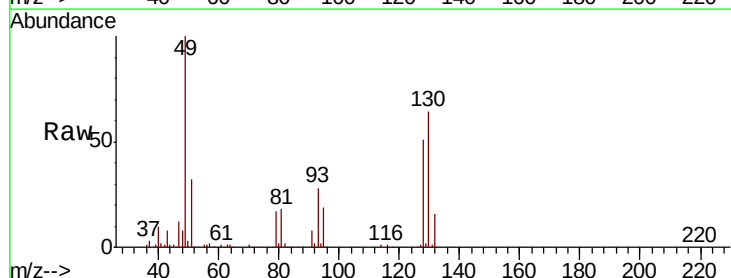
Instrument :
MSVOA_L
ClientSampleId :

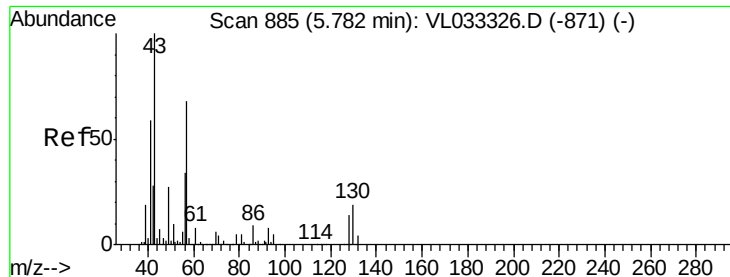
Tot Ion: 84 Resp: 6253
Ion Ratio Lower Upper
84 100
49 129.6 115.4 173.0
51 24.9 35.8 53.6#
86 50.6 50.6 75.8



#25
Ethyl Acetate
Concen: 0.210 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033346.D
Acq: 16 Mar 2019 1:03

Tgt Ion: 43 Resp: 41336
Ion Ratio Lower Upper
43 100
45 12.8 7.9 11.9#
61 10.4 7.4 11.2
70 8.4 5.7 8.5

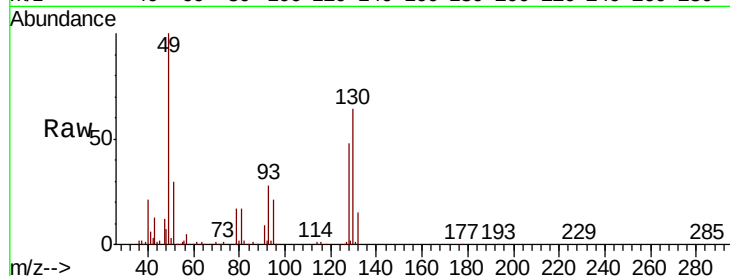




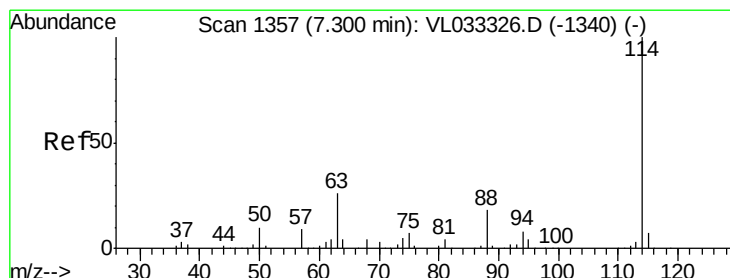
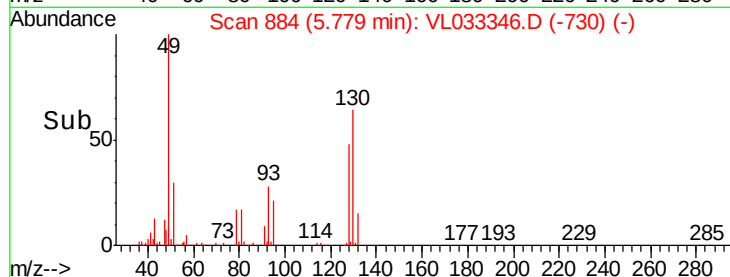
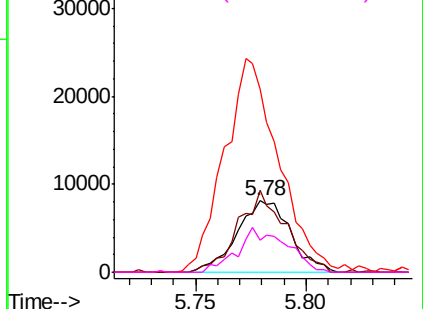
#26
Hexane
Concen: 0.155 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033346.D
Acq: 16 Mar 2019 1:03

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 13611
Ion Ratio Lower Upper
57 100
41 103.1 70.5 105.7
43 310.6 181.8 272.8#
56 57.2 42.2 63.2

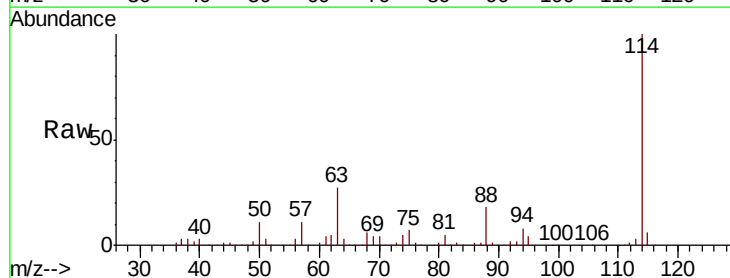


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

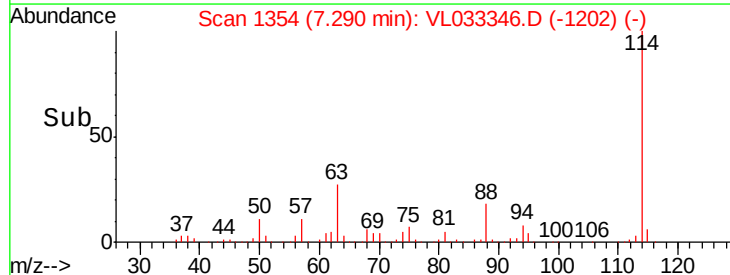
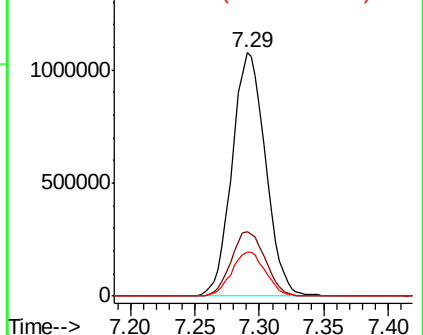


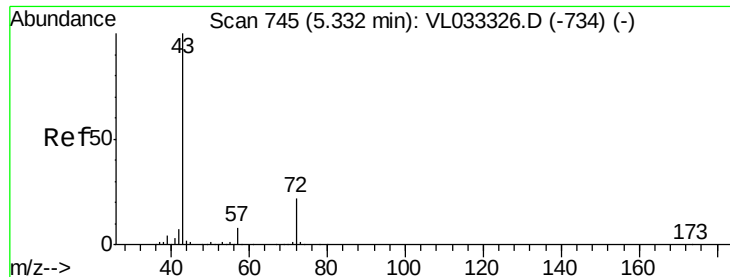
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL033346.D
Acq: 16 Mar 2019 1:03

Tgt Ion: 114 Resp: 1944080
Ion Ratio Lower Upper
114 100
63 27.0 21.4 32.2
88 18.3 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: 0.039 ppbv

RT: 5.34 min Scan# 746

Delta R.T. 0.00 min

Lab File: VL033346.D

Acq: 16 Mar 2019 1:03

Instrument :

MSVOA_L

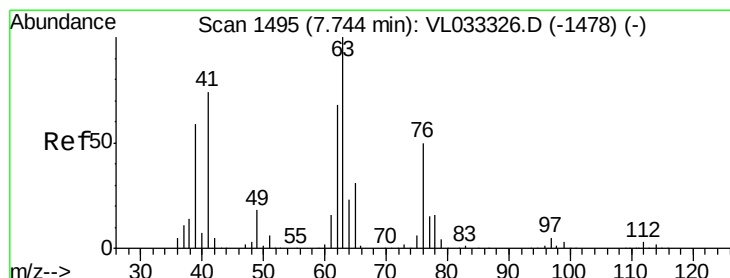
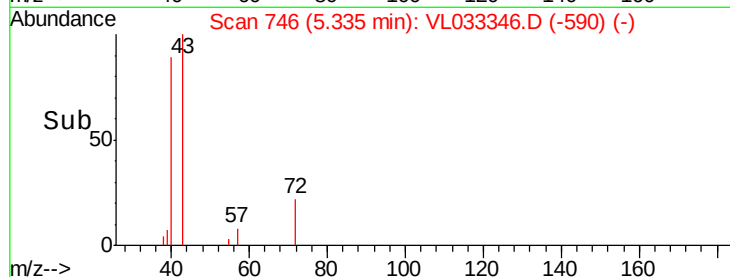
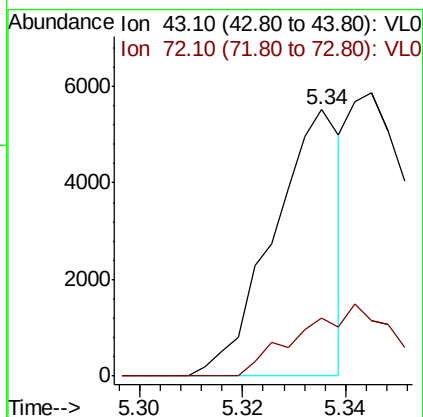
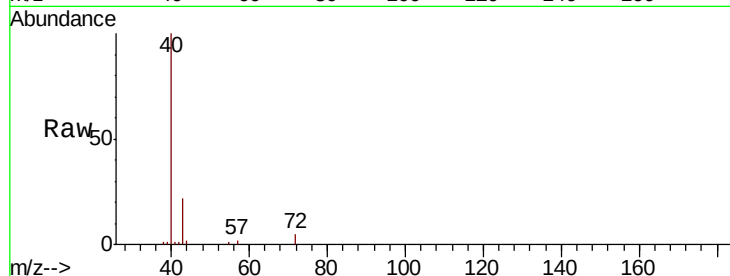
ClientSampleId :

Tot Ion: 43 Resp: 4994

Ion Ratio Lower Upper

43 100

72 0.0 17.7 26.5#



#39

1,2-Dichloropropane

Concen: 8.028 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.45 min

Lab File: VL033346.D

Acq: 16 Mar 2019 1:03

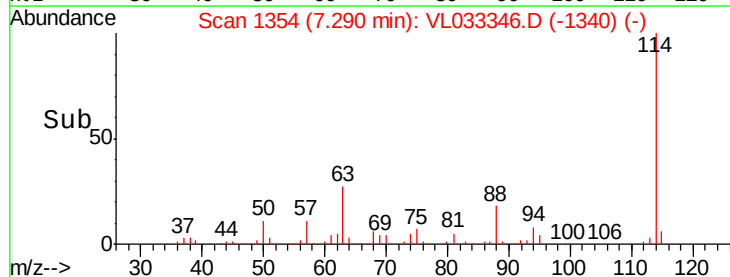
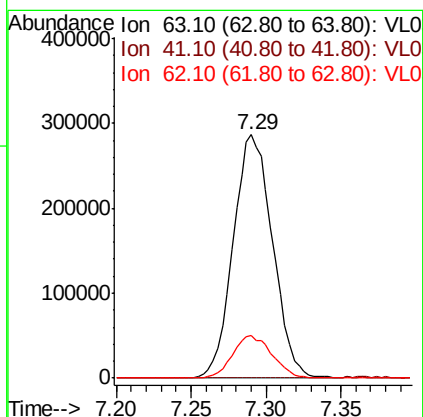
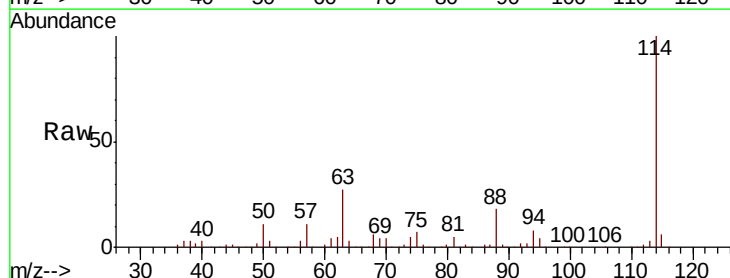
Tgt Ion: 63 Resp: 523084

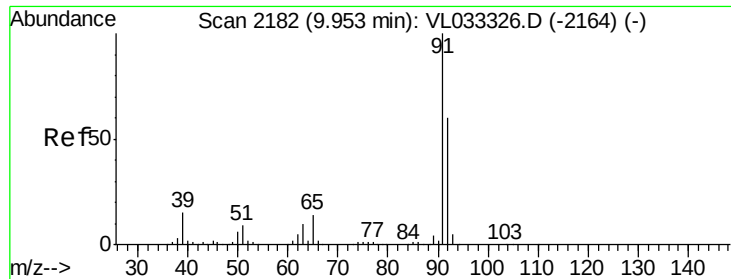
Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

62 17.8 54.7 82.1#

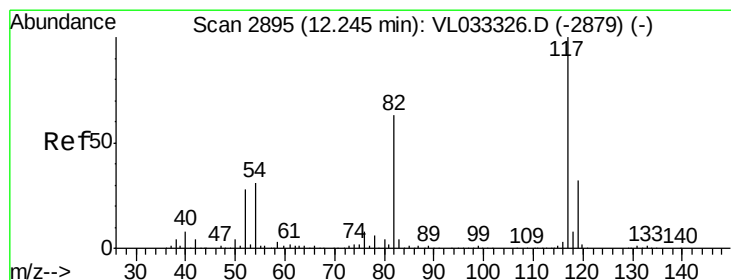
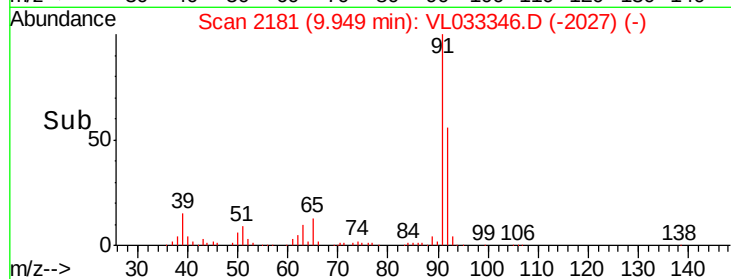
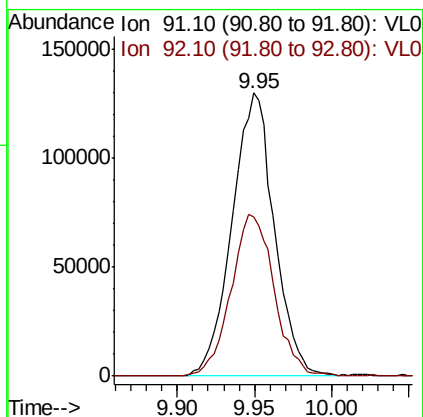
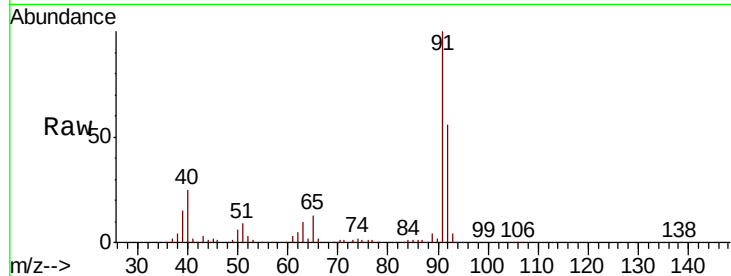




#53
Toluene
Concen: 1.238 ppbv
RT: 9.95 min Scan# 2181
Delta R.T. -0.00 min
Lab File: VL033346.D
Acq: 16 Mar 2019 1:03

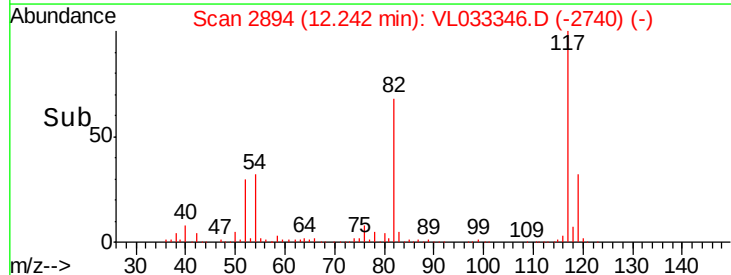
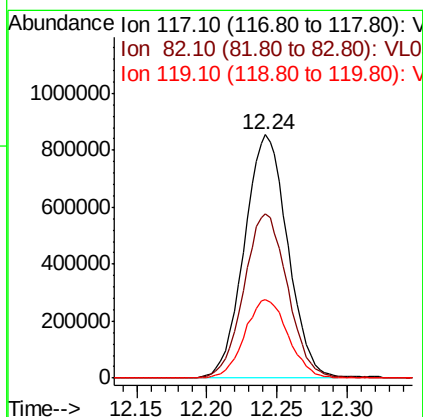
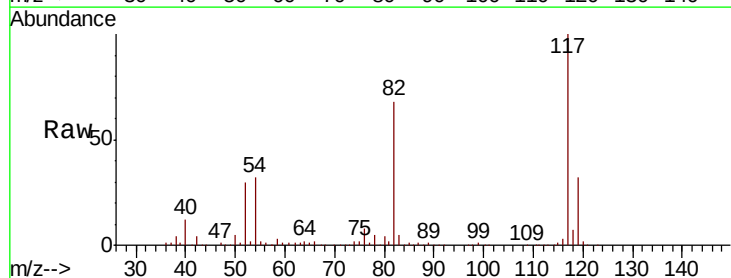
Instrument :
MSVOA_L
ClientSampled :

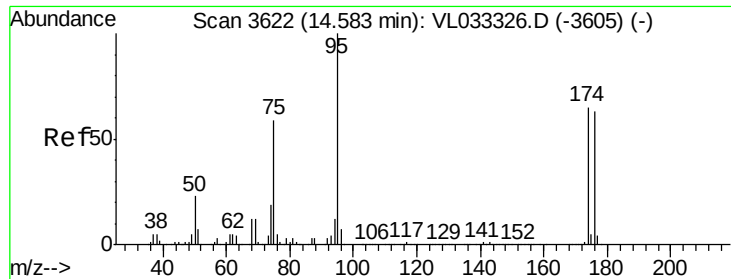
Tot Ion: 91 Resp: 244688
Ion Ratio Lower Upper
91 100
92 58.6 47.4 71.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033346.D
Acq: 16 Mar 2019 1:03

Tgt Ion: 117 Resp: 1835979
Ion Ratio Lower Upper
117 100
82 68.3 53.4 80.2
119 32.4 27.3 40.9

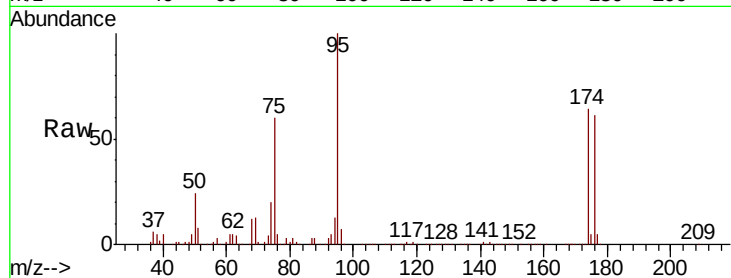




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.317 ppbv
 RT: 14.58 min Scan# 3622
 Delta R.T. -0.00 min
 Lab File: VL033346.D
 Acq: 16 Mar 2019 1:03

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 1403586
 Ion Ratio Lower Upper
 95 100
 174 64.3 51.5 77.3
 175 4.7 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

