

Data File : VL033290.D
Acq On : 12 Mar 2019 19:41
Operator : SY/AP
Sample : K1805-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ST-OA-1

Quant Time: Mar 13 07:55:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 13 07:17:55 2019
QLast Update : Wed Mar 13 07:17:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	787724	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1760322	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1702182	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1357140	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

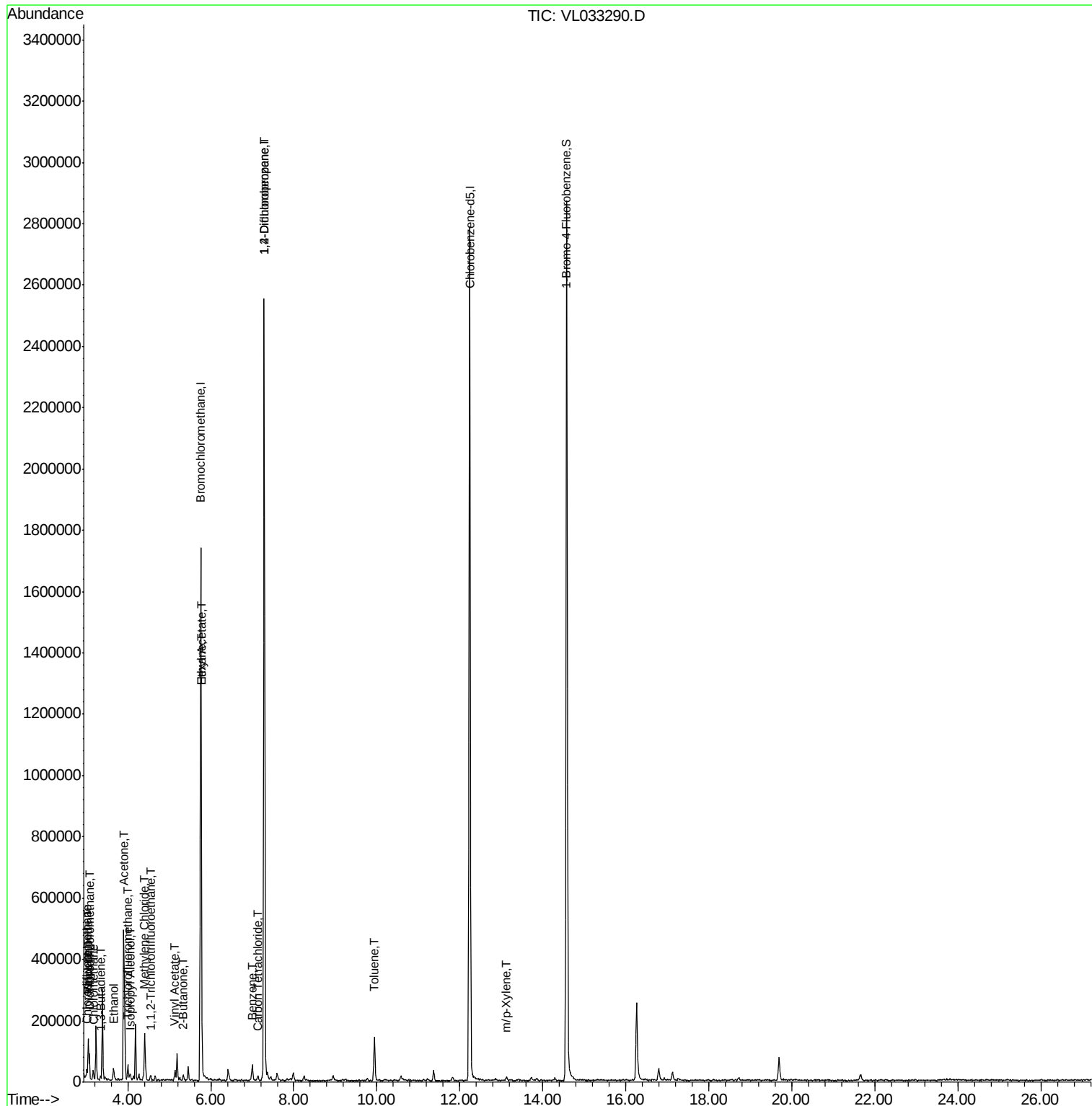
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.08	85	49294	0.310 ppbv	99
3) Chlorodifluoromethane	3.01	51	30369	0.291 ppbv	96
4) Chloromethane	3.17	50	25550	0.457 ppbv	99
5) Vinyl Chloride	3.05	62	1623	0.030 ppbv #	44
9) Propene	3.05	41	25056	0.526 ppbv #	75
11) Trichlorofluoromethane	4.00	101	30715	0.195 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	3881	0.043 ppbv #	14
13) Ethanol	3.66	45	35786	2.463 ppbv	86
15) Acetone	3.90	43	542686	4.491 ppbv	94
16) 1,3-Butadiene	3.35	39	2919	0.067 ppbv #	36
19) Isopropyl Alcohol	4.05	45	14259	0.195 ppbv #	95
20) Methylene Chloride	4.41	84	51099	1.272 ppbv	89
23) Vinyl Acetate	5.15	43	4777	0.032 ppbv #	1
25) Ethyl Acetate	5.78	43	44105	0.237 ppbv #	82
26) Hexane	5.78	57	55454	0.634 ppbv #	39
34) 2-Butanone	5.33	43	21239	0.182 ppbv	96
35) Carbon Tetrachloride	7.13	117	3712	0.029 ppbv	96
36) Benzene	7.00	78	37100	0.229 ppbv #	95
39) 1,2-Dichloropropane	7.28	63	478759	7.837 ppbv #	24
53) Toluene	9.94	91	101894	0.545 ppbv	100
59) m/p-Xylene	13.12	91	4130	0.021 ppbv #	32

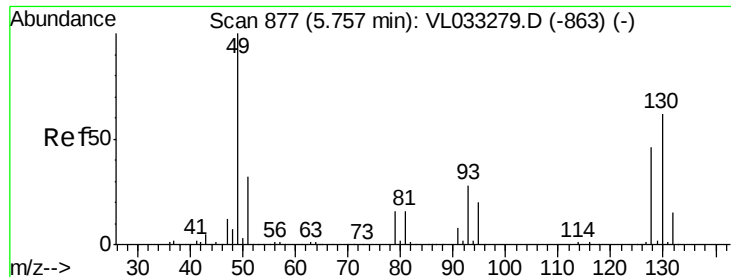
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VL033290.D
Acq On : 12 Mar 2019 19:41
Operator : SY/AP
Sample : K1805-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ST-OA-1

Quant Time: Mar 13 07:55:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 13 07:17:55 2019
QLast Update : Wed Mar 13 07:17:55 2019
Response via : Initial Calibration

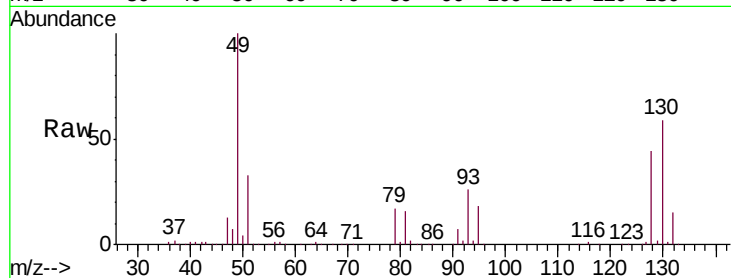




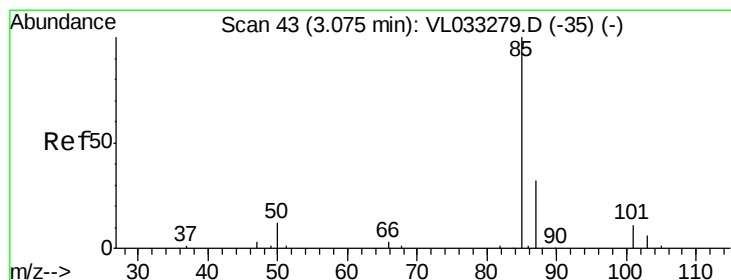
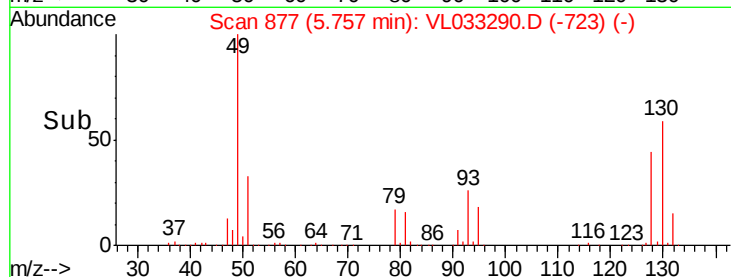
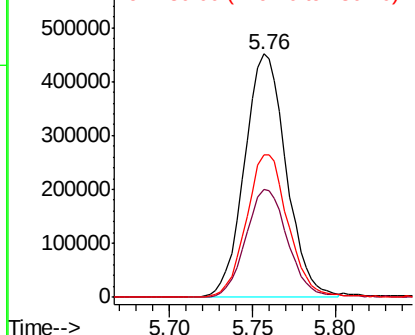
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 877
 Delta R.T. -0.01 min
 Lab File: VL033290.D
 Acq: 12 Mar 2019 19:41

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-OA-1

Tgt Ion: 49 Resp: 787724
 Ion Ratio Lower Upper
 49 100
 128 45.2 23.3 69.9
 130 59.0 30.0 90.1

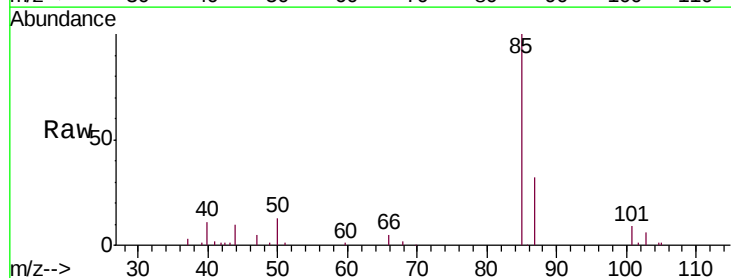


Abundance Ion 49.10 (48.80 to 49.80): VL0
 Ion 128.00 (127.70 to 128.70): V
 Ion 130.00 (129.70 to 130.70): V

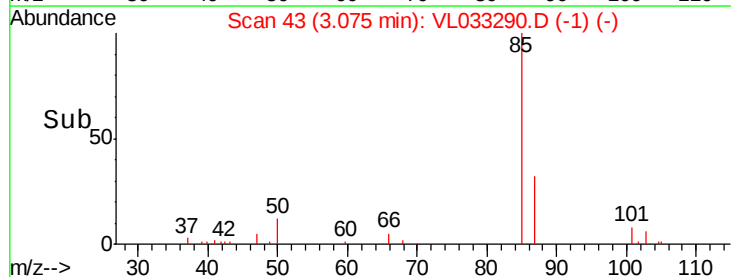
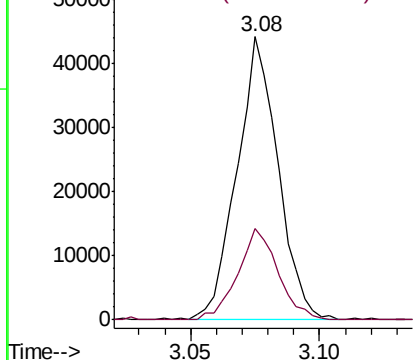


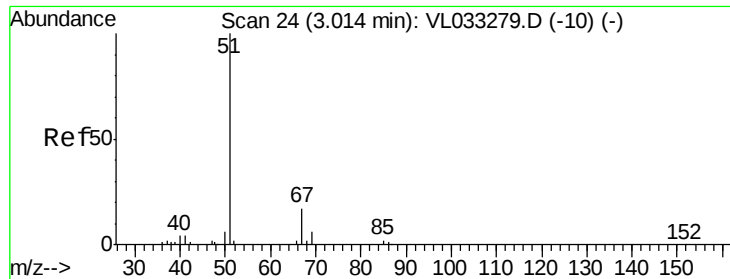
#2
 Dichlorodifluoromethane
 Concen: 0.310 ppbv
 RT: 3.08 min Scan# 43
 Delta R.T. -0.00 min
 Lab File: VL033290.D
 Acq: 12 Mar 2019 19:41

Tgt Ion: 85 Resp: 49294
 Ion Ratio Lower Upper
 85 100
 87 32.4 26.4 39.6



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





#3

Chlorodifluoromethane

Concen: 0.291 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.01 min

Lab File: VL033290.D

Acq: 12 Mar 2019 19:41

Instrument :

MSVOA_L

ClientSampleId :

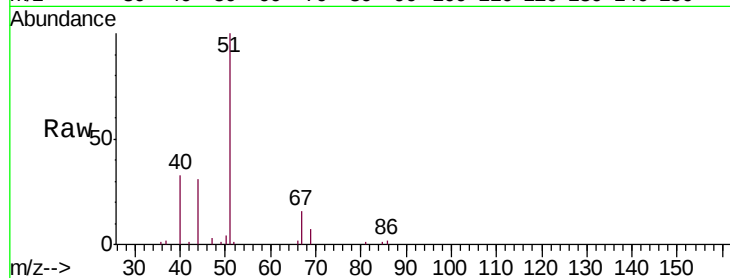
ST-OA-1

Tgt Ion: 51 Resp: 30369

Ion Ratio Lower Upper

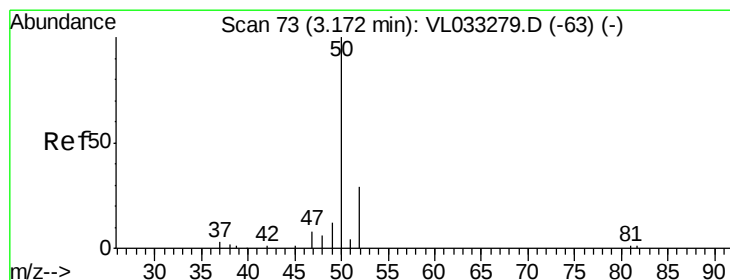
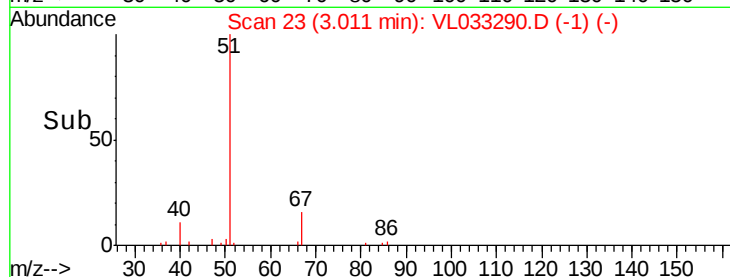
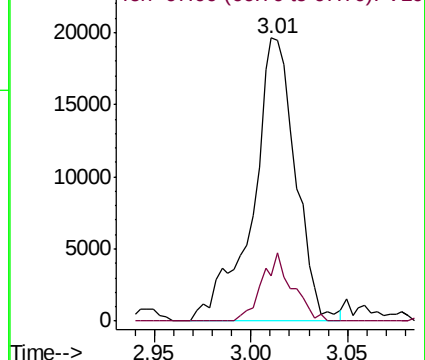
51 100

67 16.9 15.0 22.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.457 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033290.D

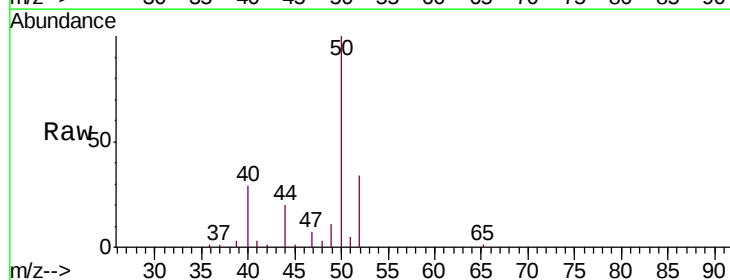
Acq: 12 Mar 2019 19:41

Tgt Ion: 50 Resp: 25550

Ion Ratio Lower Upper

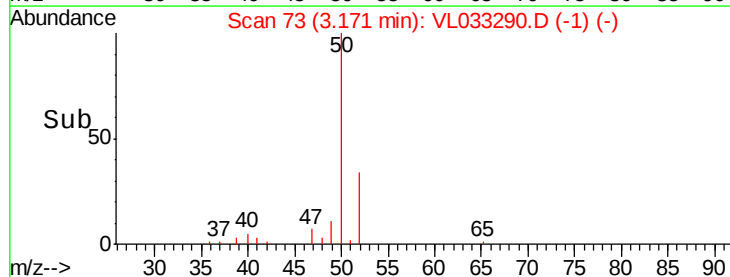
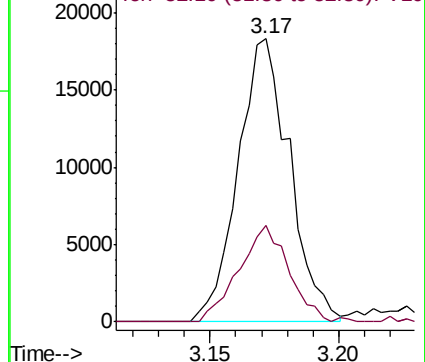
50 100

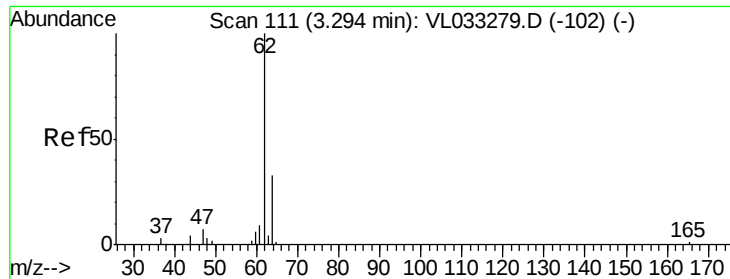
52 34.0 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.030 ppbv

RT: 3.05 min Scan# 34

Delta R.T. -0.25 min

Lab File: VL033290.D

Acq: 12 Mar 2019 19:41

Instrument :

MSVOA_L

ClientSampleId :

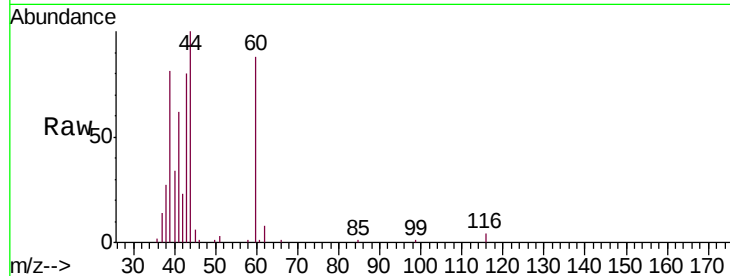
ST-OA-1

Tgt Ion: 62 Resp: 1623

Ion Ratio Lower Upper

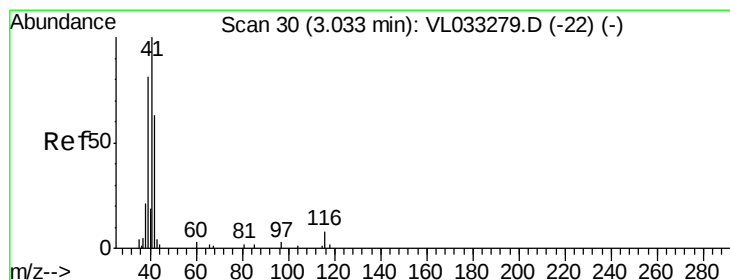
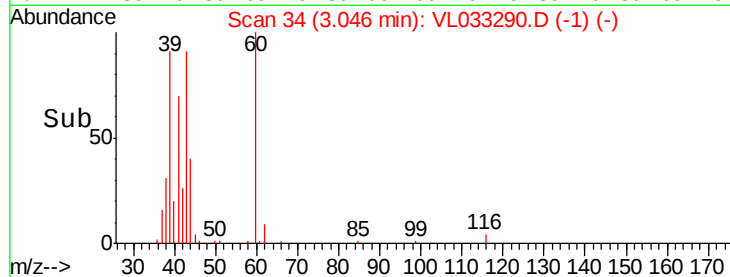
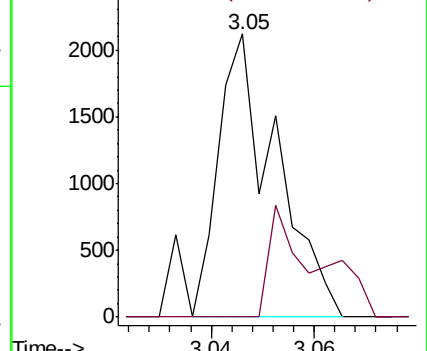
62 100

64 0.0 24.5 36.7#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#9

Propene

Concen: 0.526 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL033290.D

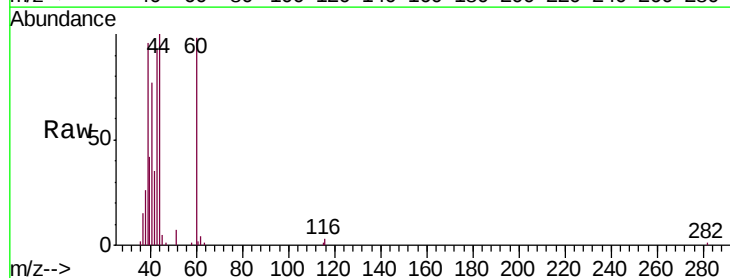
Acq: 12 Mar 2019 19:41

Tgt Ion: 41 Resp: 25056

Ion Ratio Lower Upper

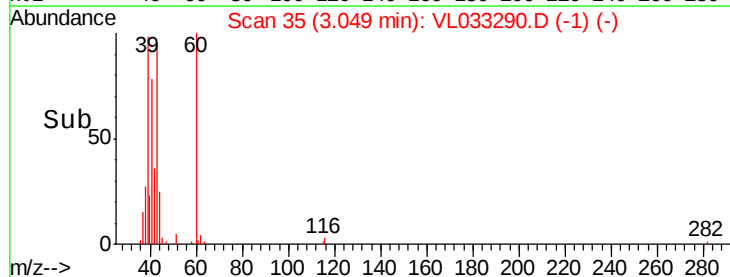
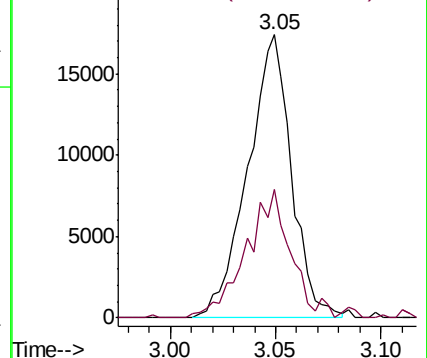
41 100

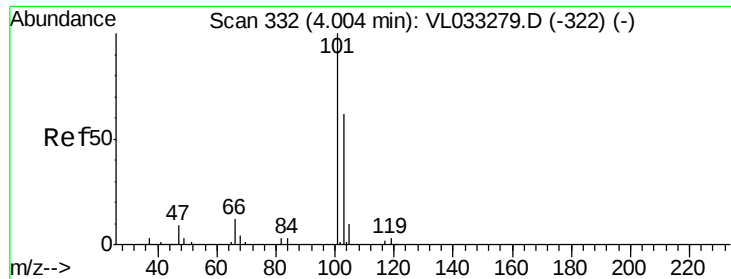
42 47.7 54.6 82.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

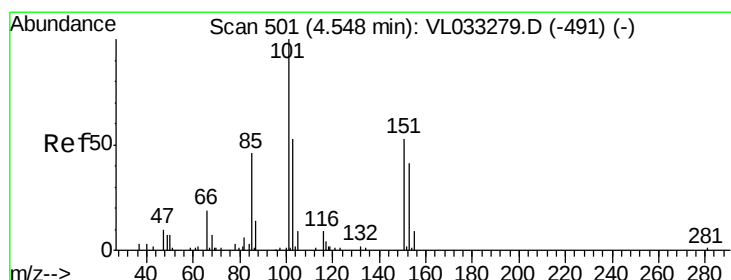
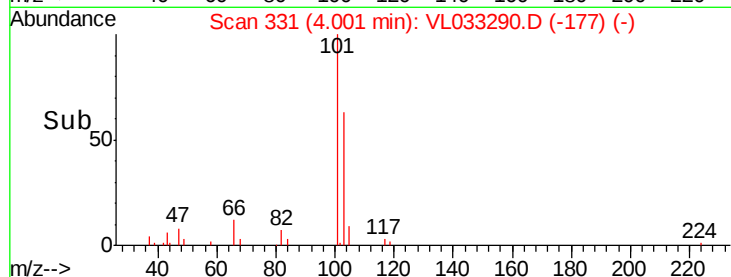
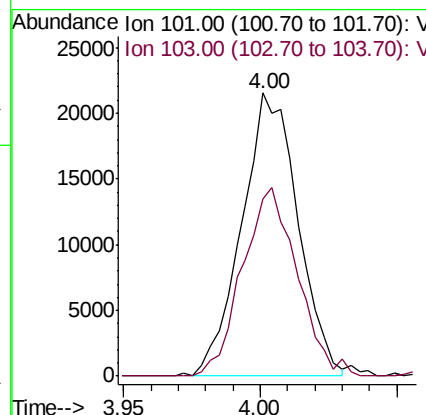
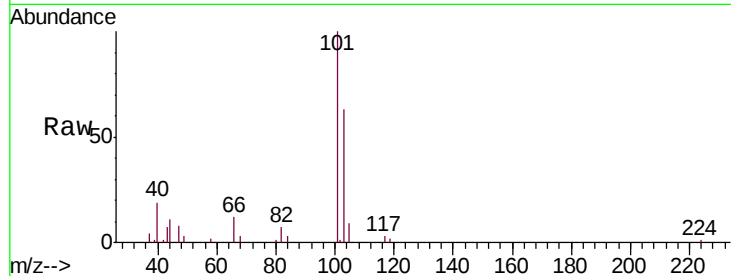




#11
 Trichlorofluoromethane
 Concen: 0.195 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.01 min
 Lab File: VL033290.D
 Acq: 12 Mar 2019 19:41

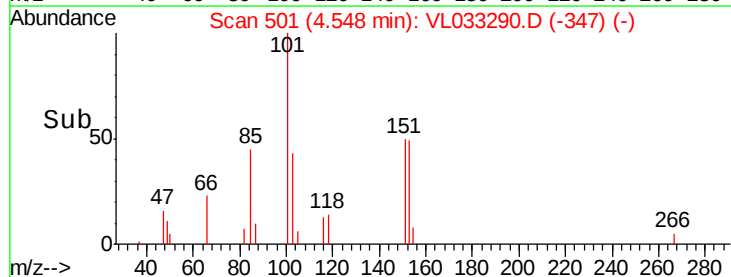
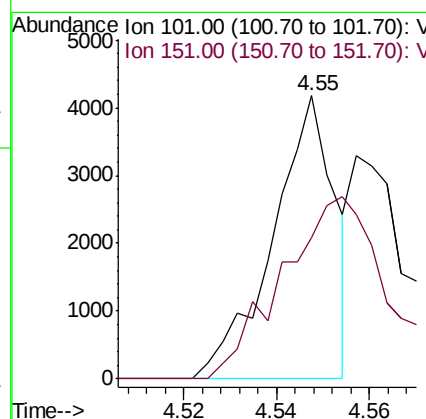
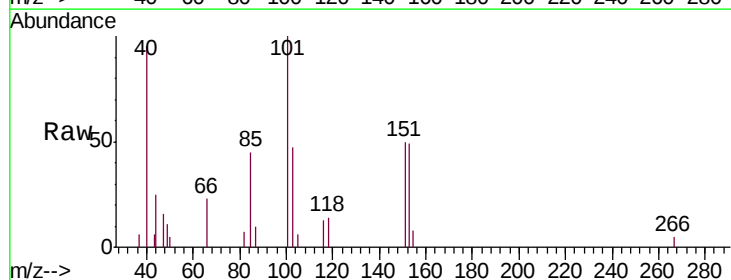
Instrument :
 MSVOA_L
 ClientSampleId :
 ST-OA-1

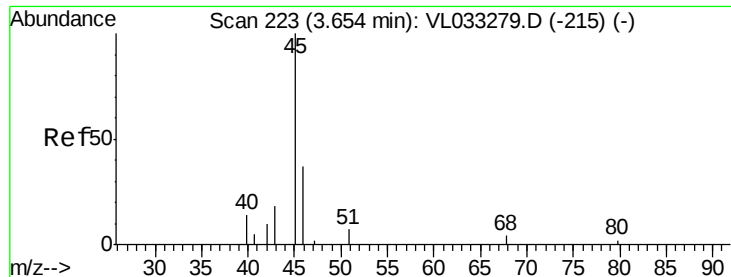
Tgt Ion:101 Resp: 30715
 Ion Ratio Lower Upper
 101 100
 103 62.8 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.043 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.01 min
 Lab File: VL033290.D
 Acq: 12 Mar 2019 19:41

Tgt Ion:101 Resp: 3881
 Ion Ratio Lower Upper
 101 100
 151 0.0 56.9 85.3#

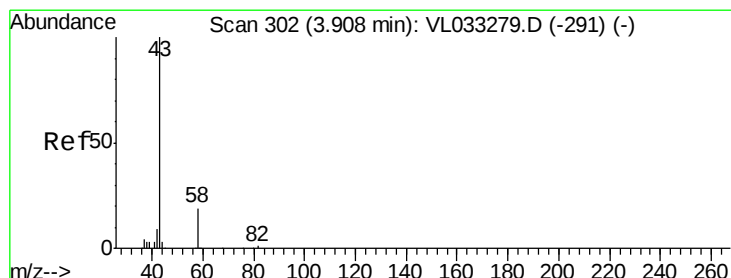
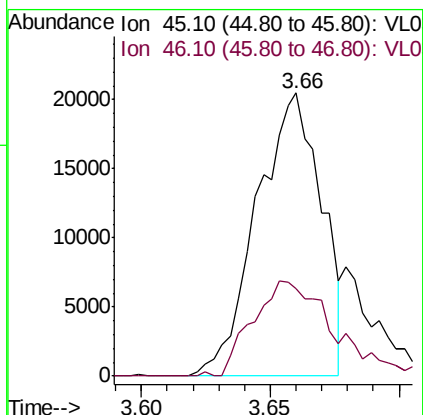
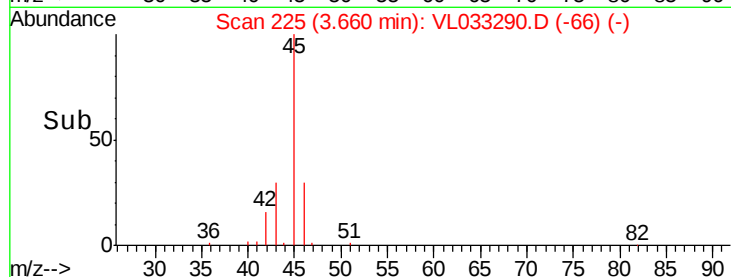
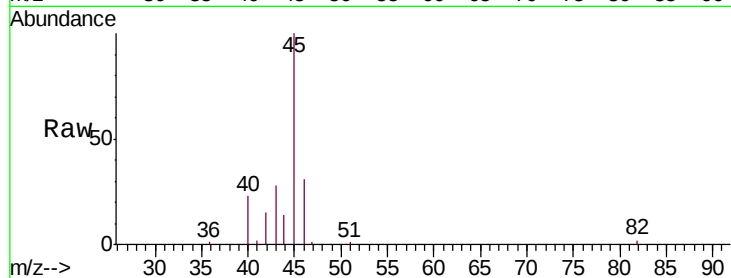




#13
Ethanol
Concen: 2.463 ppbv
RT: 3.66 min Scan# 225
Delta R.T. 0.01 min
Lab File: VL033290.D
Acq: 12 Mar 2019 19:41

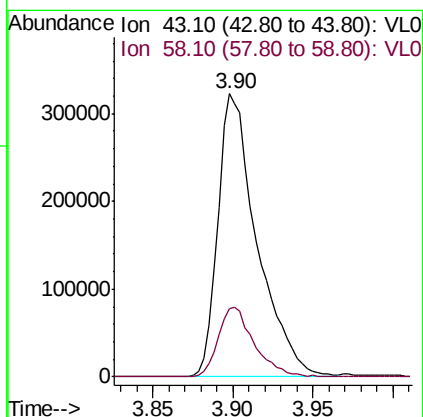
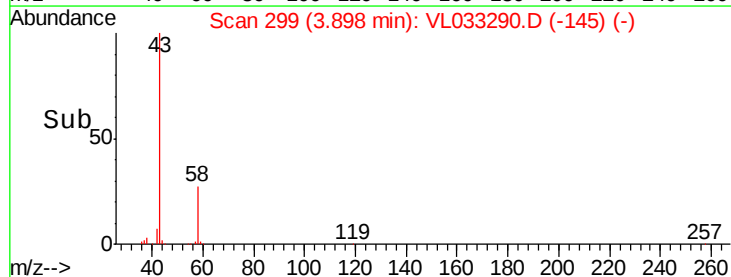
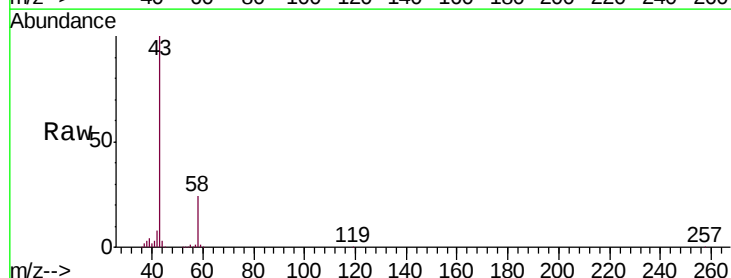
Instrument :
MSVOA_L
ClientSampleId :
ST-OA-1

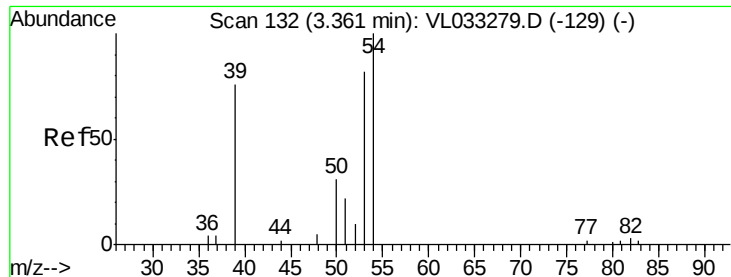
Tgt Ion: 45 Resp: 35786
Ion Ratio Lower Upper
45 100
46 42.9 13.9 55.7



#15
Acetone
Concen: 4.491 ppbv
RT: 3.90 min Scan# 299
Delta R.T. -0.01 min
Lab File: VL033290.D
Acq: 12 Mar 2019 19:41

Tgt Ion: 43 Resp: 542686
Ion Ratio Lower Upper
43 100
58 23.1 21.1 31.7





#16

1,3-Butadiene

Concen: 0.067 ppbv

RT: 3.35 min Scan# 127

Delta R.T. -0.02 min

Lab File: VL033290.D

Acq: 12 Mar 2019 19:41

Instrument :

MSVOA_L

ClientSampleId :

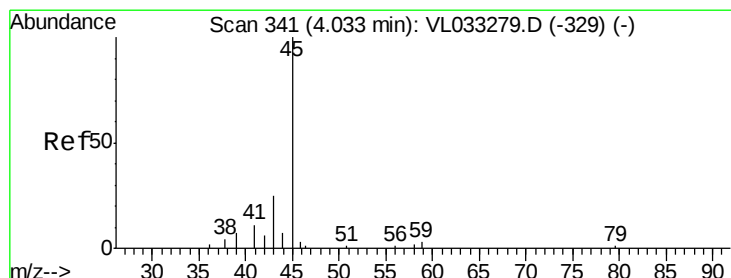
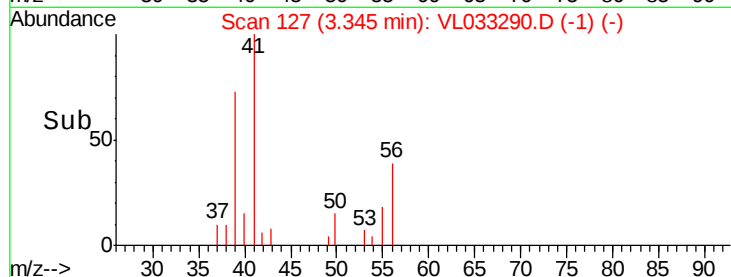
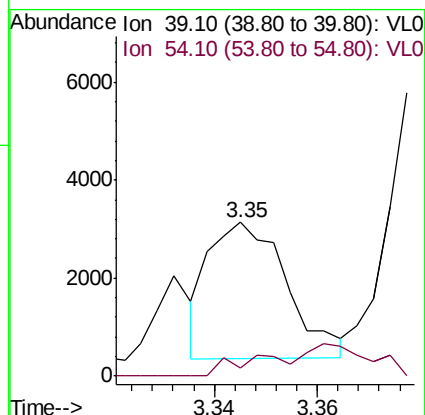
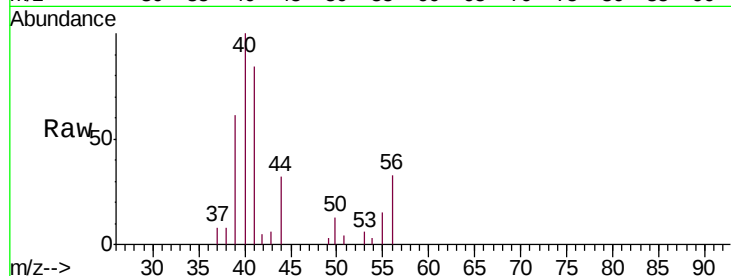
ST-OA-1

Tgt Ion: 39 Resp: 2919

Ion Ratio Lower Upper

39 100

54 33.2 76.6 114.8#



#19

Isopropyl Alcohol

Concen: 0.195 ppbv

RT: 4.05 min Scan# 345

Delta R.T. 0.02 min

Lab File: VL033290.D

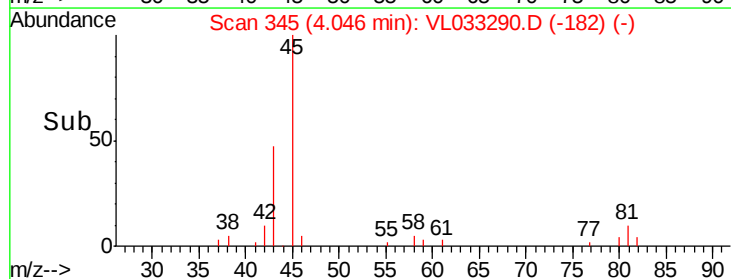
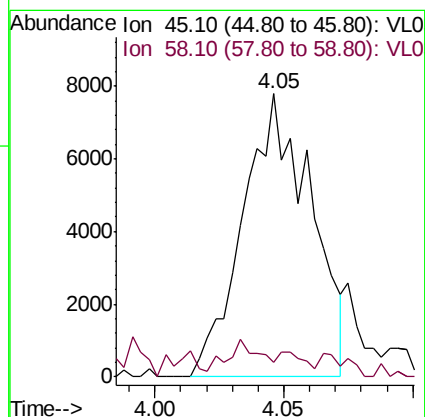
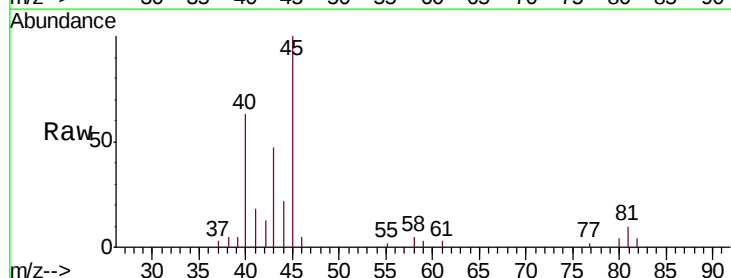
Acq: 12 Mar 2019 19:41

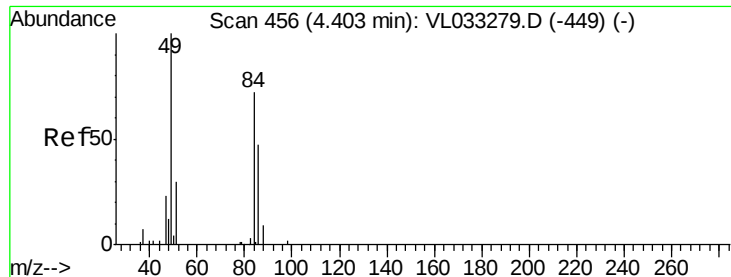
Tgt Ion: 45 Resp: 14259

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#

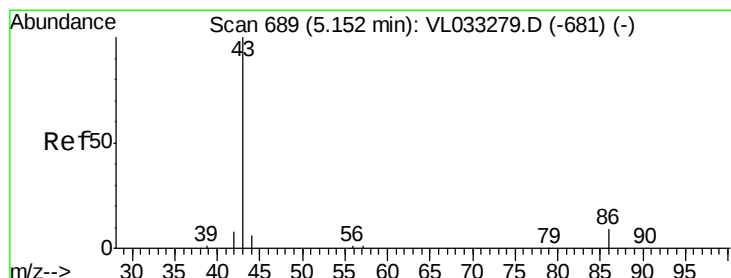
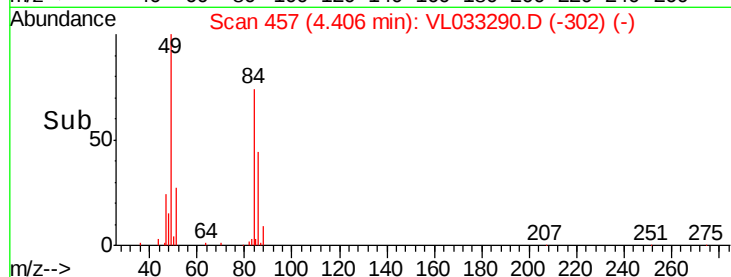
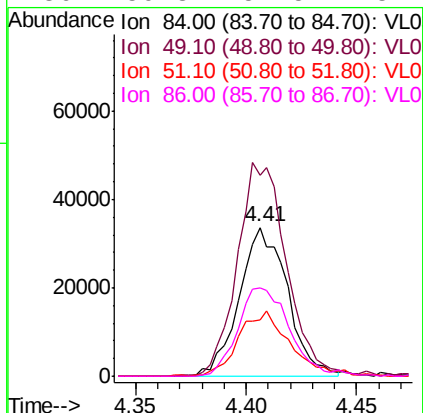
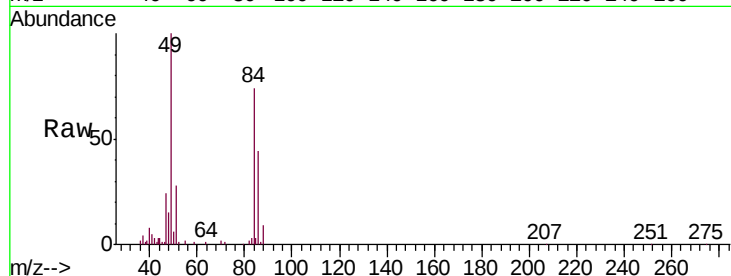




#20
Methylene Chloride
Concen: 1.272 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033290.D
Acq: 12 Mar 2019 19:41

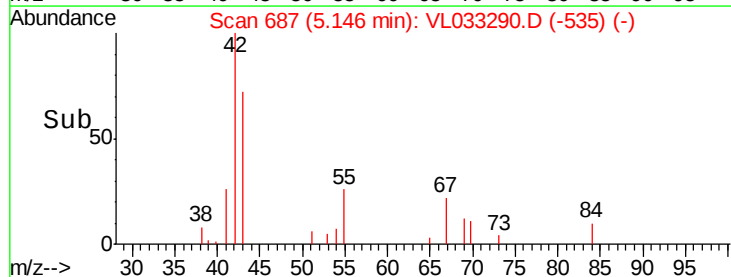
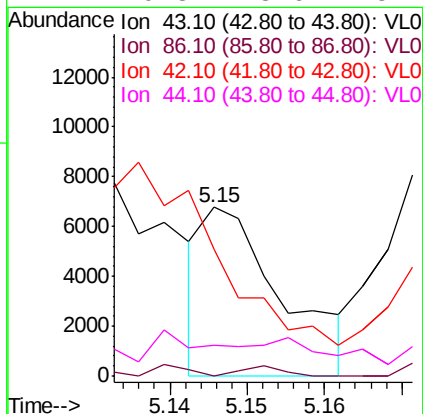
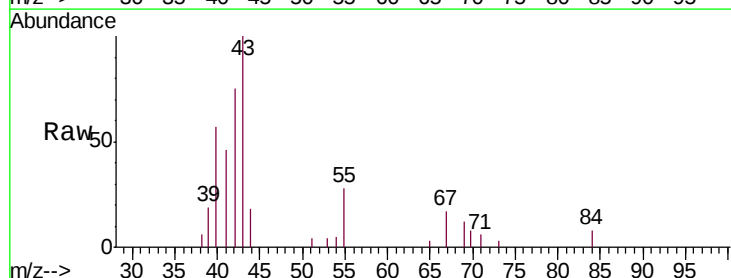
Instrument :
MSVOA_L
ClientSampleId :
ST-OA-1

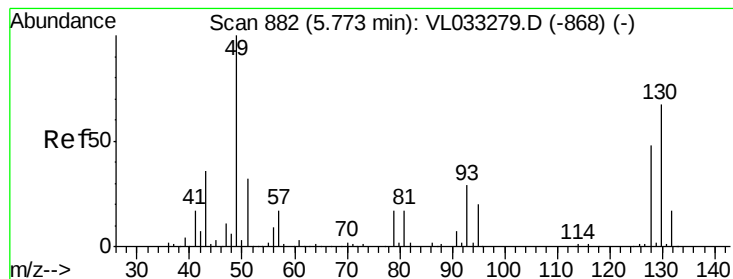
Tgt Ion:	84	Resp:	51099
Ion	Ratio	Lower	Upper
84	100		
49	134.2	120.3	180.5
51	38.3	36.2	54.4
86	59.3	52.5	78.7



#23
Vinyl Acetate
Concen: 0.032 ppbv
RT: 5.15 min Scan# 687
Delta R.T. -0.01 min
Lab File: VL033290.D
Acq: 12 Mar 2019 19:41

Tgt Ion:	43	Resp:	4777
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.5	8.3#
42	90.6	7.8	11.6#
44	9.8	3.6	5.4#





#25

Ethyl Acetate

Concen: 0.237 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL033290.D

Acq: 12 Mar 2019 19:41

Instrument :

MSVOA_L

ClientSampleId :

ST-OA-1

Tgt Ion: 43 Resp: 44105

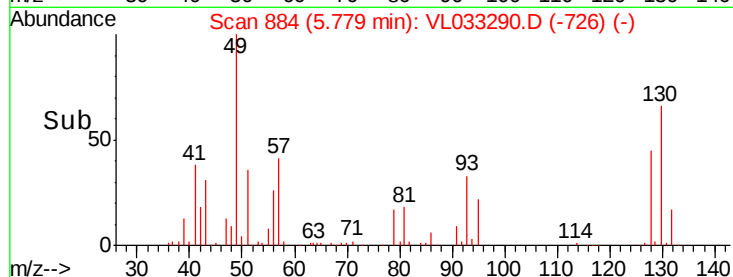
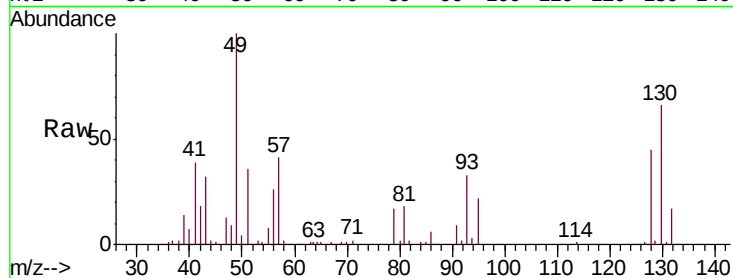
Ion Ratio Lower Upper

43 100

45 2.4 7.8 11.6#

61 1.0 7.3 10.9#

70 3.2 5.8 8.6#



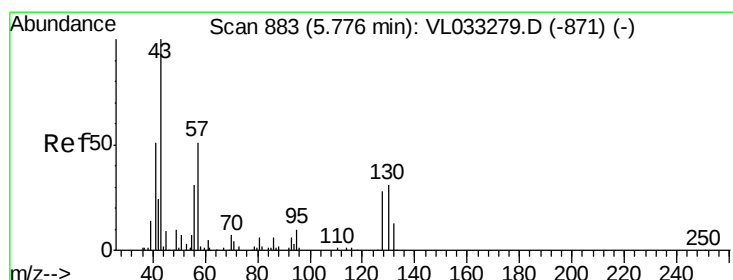
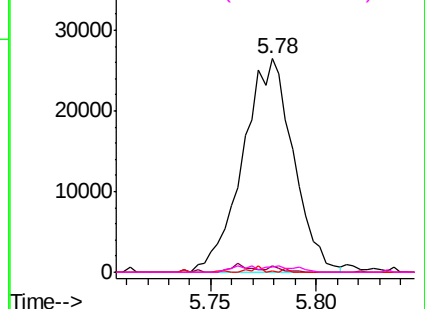
Abundance

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: 0.634 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033290.D

Acq: 12 Mar 2019 19:41

Tgt Ion: 57 Resp: 55454

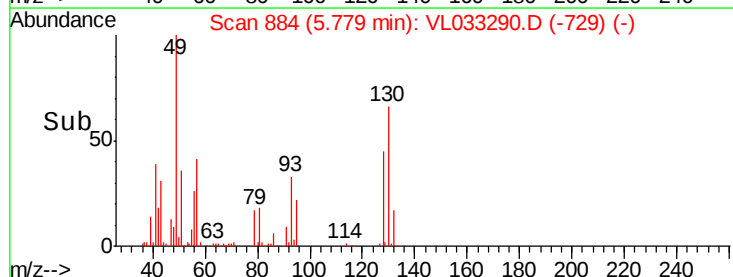
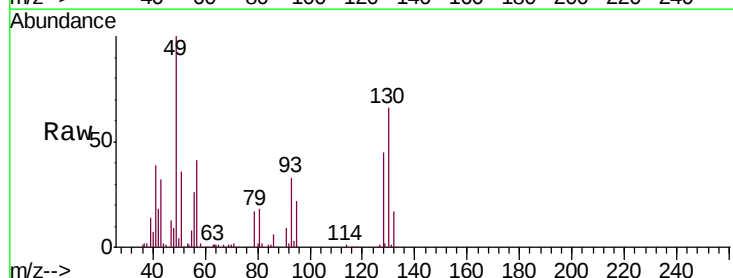
Ion Ratio Lower Upper

57 100

41 105.3 70.7 106.1

43 81.0 178.6 267.8#

56 62.8 41.3 61.9#



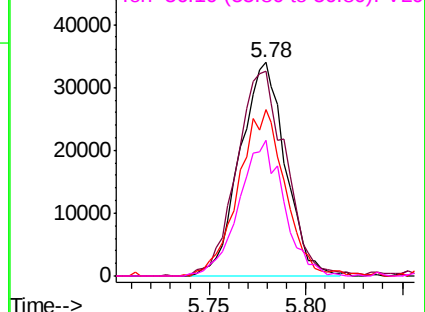
Abundance

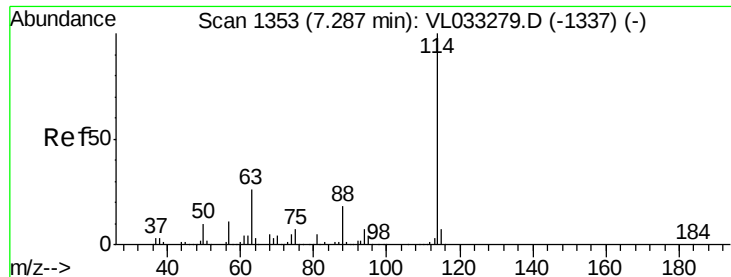
Ion 57.10 (56.80 to 57.80): VL0

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

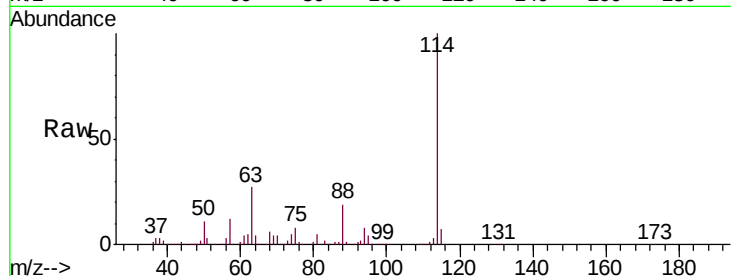




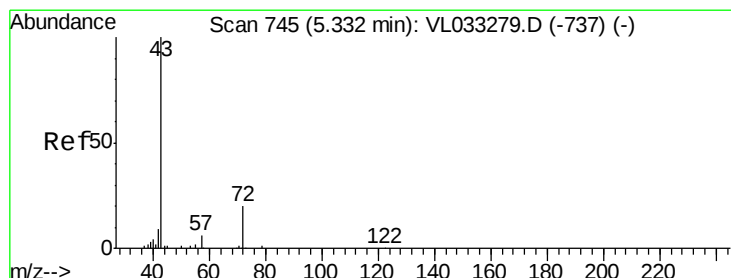
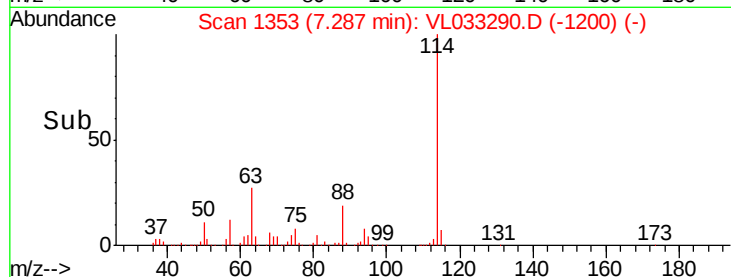
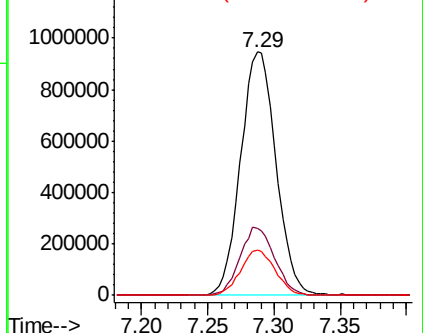
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033290.D
 Acq: 12 Mar 2019 19:41

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-OA-1

Tgt Ion:114 Resp: 1760322
 Ion Ratio Lower Upper
 114 100
 63 27.2 21.5 32.3
 88 18.2 14.6 22.0

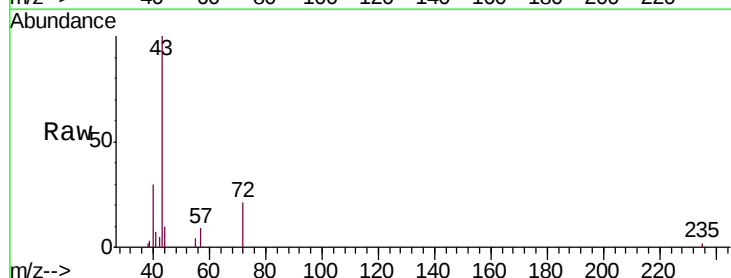


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

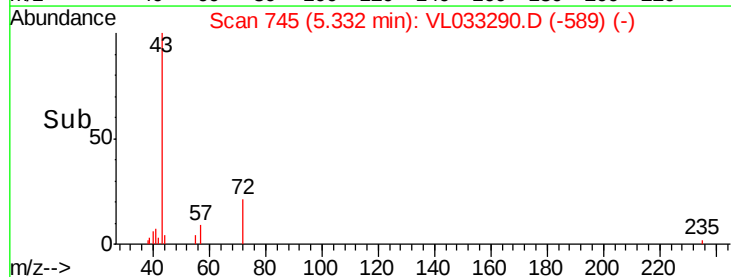
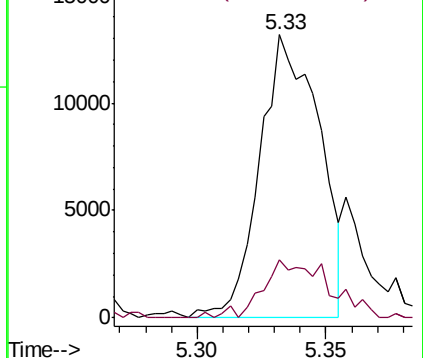


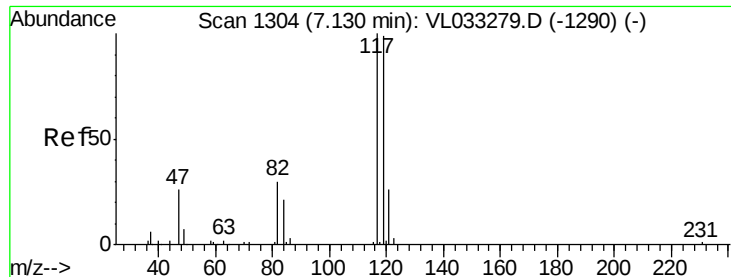
#34
 2-Butanone
 Concen: 0.182 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: VL033290.D
 Acq: 12 Mar 2019 19:41

Tgt Ion: 43 Resp: 21239
 Ion Ratio Lower Upper
 43 100
 72 23.0 17.0 25.6



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





#35

Carbon Tetrachloride

Concen: 0.029 ppbv

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033290.D

Acq: 12 Mar 2019 19:41

Instrument :

MSVOA_L

ClientSampleId :

ST-OA-1

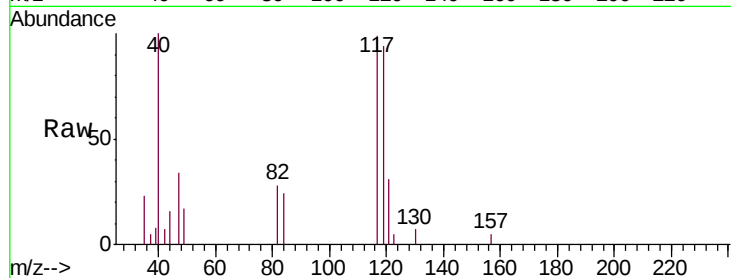
Tgt Ion:117 Resp: 3712

Ion Ratio Lower Upper

117 100

119 101.0 77.4 116.0

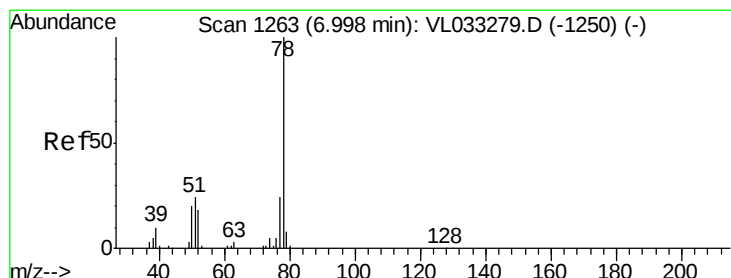
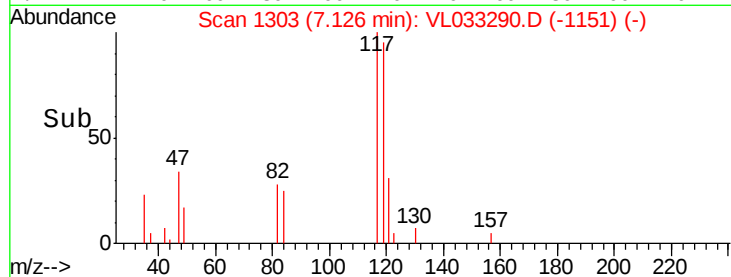
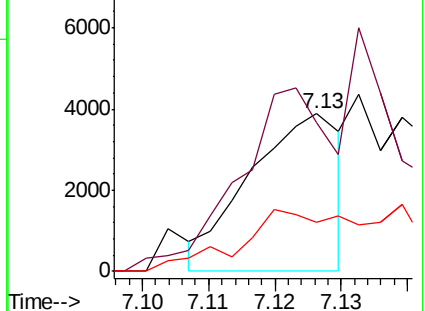
121 28.5 24.9 37.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.229 ppbv

RT: 7.00 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VL033290.D

Acq: 12 Mar 2019 19:41

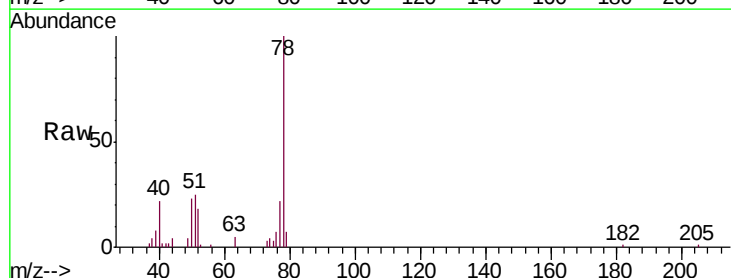
Tgt Ion: 78 Resp: 37100

Ion Ratio Lower Upper

78 100

77 22.6 17.7 26.5

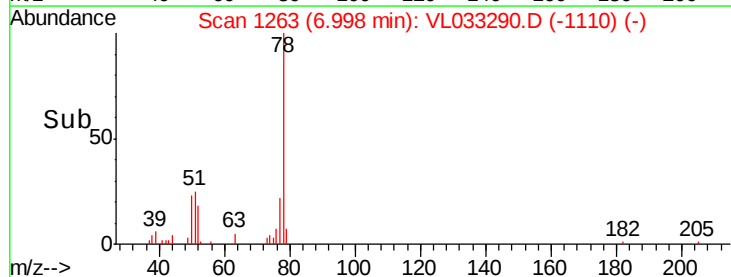
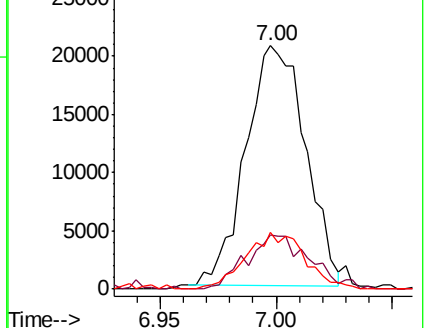
50 23.6 15.7 23.5#

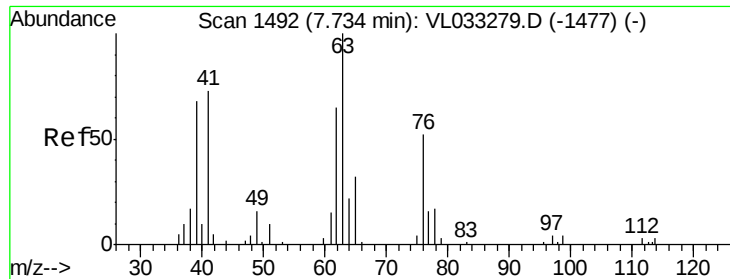


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

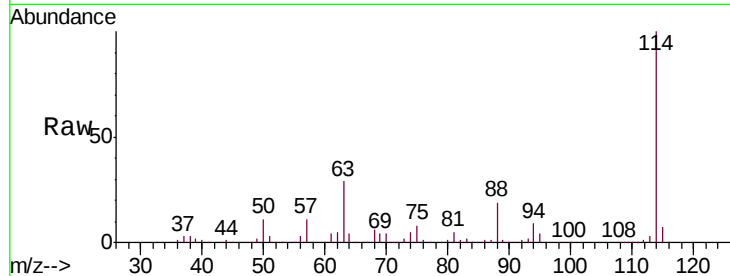




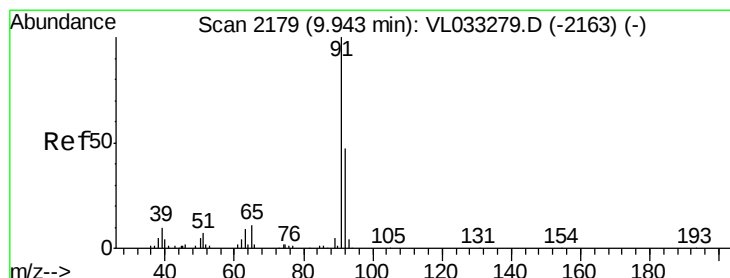
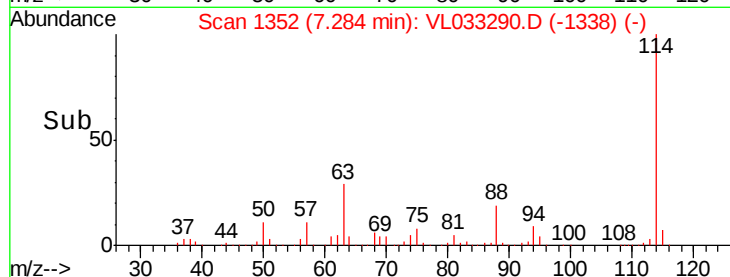
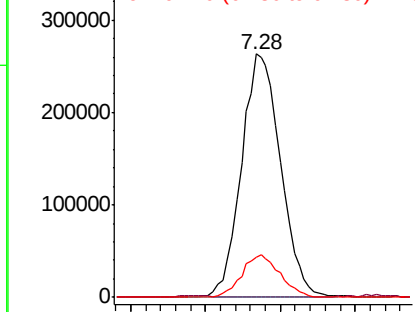
#39
 1,2-Dichloropropane
 Concen: 7.837 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.46 min
 Lab File: VL033290.D
 Acq: 12 Mar 2019 19:41

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-OA-1

Tgt Ion: 63 Resp: 478759
 Ion Ratio Lower Upper
 63 100
 41 0.0 58.3 87.5#
 62 16.2 55.3 82.9#

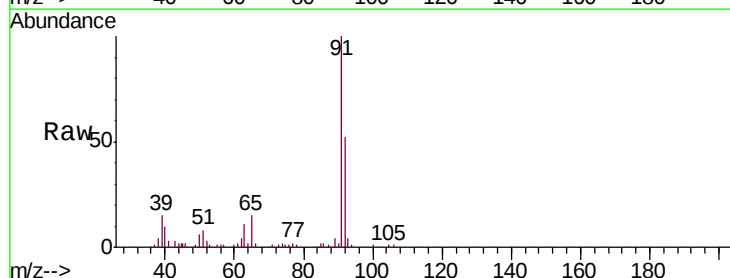


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

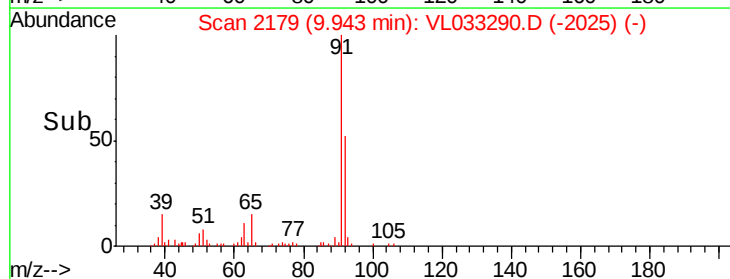
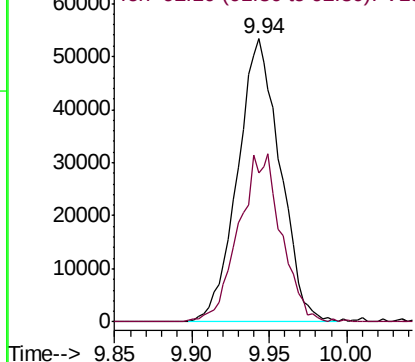


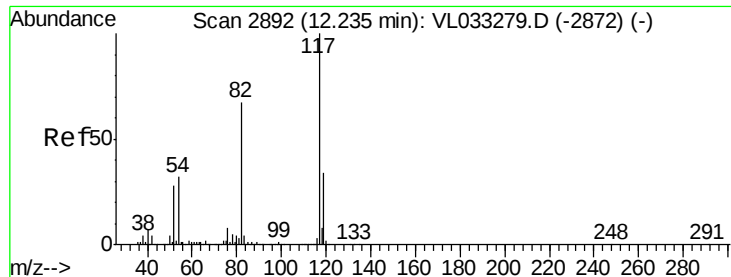
#53
 Toluene
 Concen: 0.545 ppbv
 RT: 9.94 min Scan# 2179
 Delta R.T. -0.01 min
 Lab File: VL033290.D
 Acq: 12 Mar 2019 19:41

Tgt Ion: 91 Resp: 101894
 Ion Ratio Lower Upper
 91 100
 92 59.8 47.8 71.8



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0

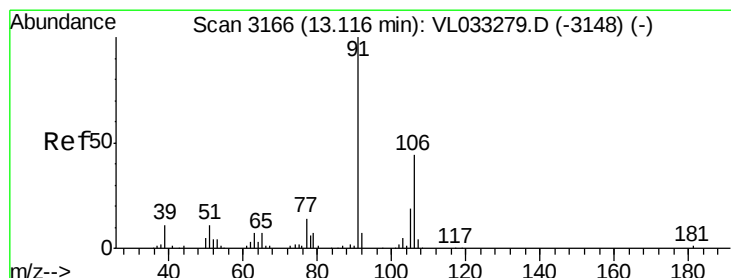
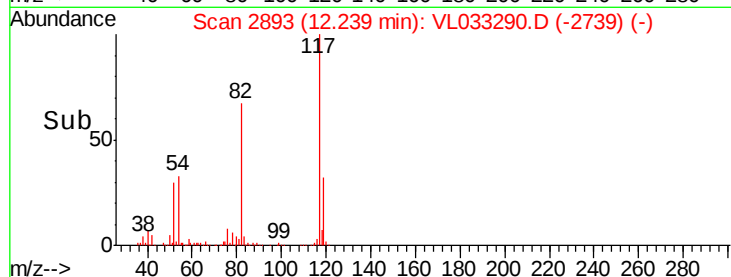
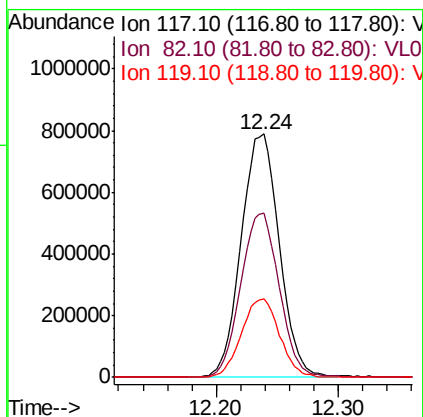
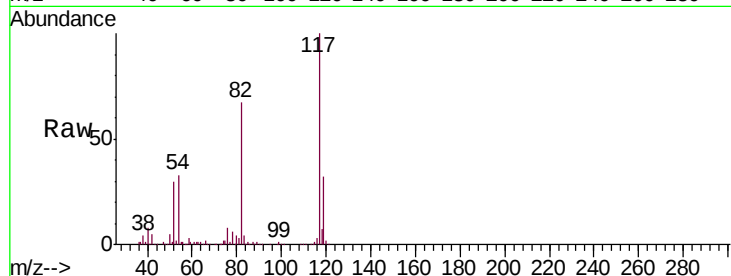




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033290.D
Acq: 12 Mar 2019 19:41

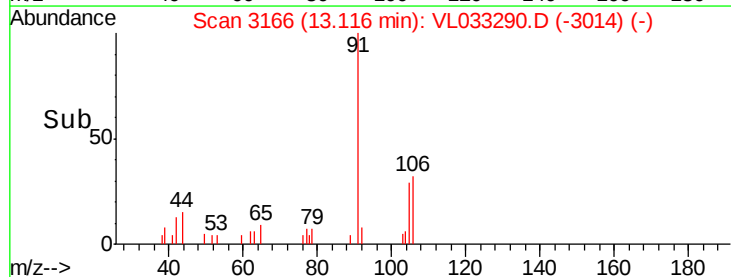
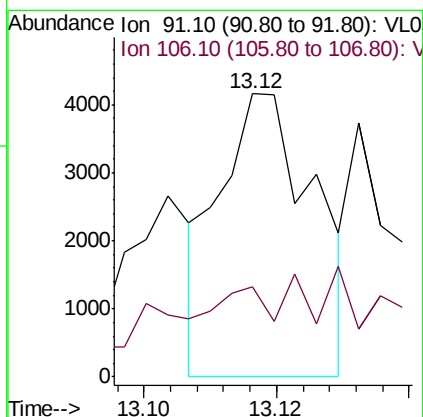
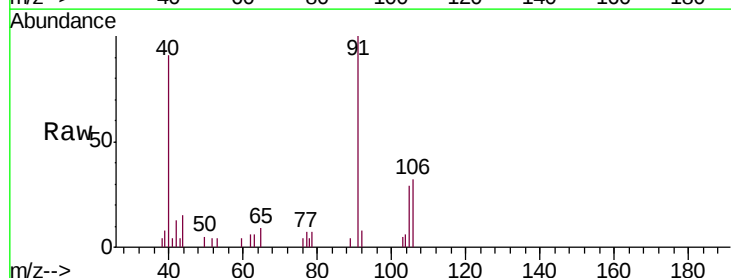
Instrument :
MSVOA_L
ClientSampleId :
ST-OA-1

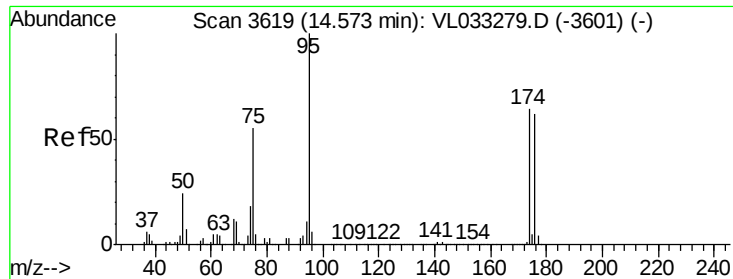
Tgt Ion: 117 Resp: 1702182
Ion Ratio Lower Upper
117 100
82 68.8 51.1 76.7
119 32.3 43.6 65.4#



#59
m/p-Xylene
Concen: 0.021 ppbv
RT: 13.12 min Scan# 3166
Delta R.T. -0.01 min
Lab File: VL033290.D
Acq: 12 Mar 2019 19:41

Tgt Ion: 91 Resp: 4130
Ion Ratio Lower Upper
91 100
106 0.0 35.5 53.3#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.324 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033290.D

Acq: 12 Mar 2019 19:41

Instrument :

MSVOA_L

ClientSampleId :

ST-OA-1

Tgt Ion: 95 Resp: 1357140

Ion Ratio Lower Upper

95 100

174 64.0 51.7 77.5

175 4.5 3.7 5.5

