

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV040920\
 Data File : VV015443.D
 Acq On : 10 Apr 2020 01:33
 Operator : SY/MD
 Sample : L2207-01
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 10 05:41:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR040920WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Apr 10 05:37:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	116447	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	111498	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	54886	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	26468	4.38	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.60%
7) Chloroethane-d5	1.58	69	26421	4.75	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.00%
11) 1,1-Dichloroethene-d2	2.12	63	31943	2.51	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	50.20%#
20) 2-Butanone-d5	3.96	46	94693	55.82	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.64%
24) Chloroform-d	4.38	84	60154	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.80%
26) 1,2-Dichloroethane-d4	5.06	65	35378	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
32) Benzene-d6	5.08	84	118245	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.60%
36) 1,2-Dichloropropane-d6	6.10	67	38417	4.99	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.80%
41) Toluene-d8	7.34	98	105958	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.80%
43) trans-1,3-Dichloropropene-	7.65	79	14475	4.32	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.40%
46) 2-Hexanone-d5	8.12	63	78356	48.49	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.98%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	29037	4.75	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.00%
64) 1,2-Dichlorobenzene-d4	11.65	152	42949	4.87	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.40%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	1834	0.174 ug/L #	60
13) Acetone	2.23	43	8403	7.011 ug/L #	17
15) Methyl Acetate	2.52	43	975	0.275 ug/L #	57
19) 1,1-Dichloroethane	3.22	63	12271	0.790 ug/L	98
22) cis-1,2-Dichloroethene	3.94	96	8495	0.993 ug/L	94
25) Chloroform	4.41	83	3561	0.224 ug/L	77
27) 1,2-Dichloroethane	5.16	62	6799	0.662 ug/L	98
30) Cyclohexane	4.70	56	3466	0.226 ug/L	89
33) Benzene	5.13	78	44945	1.347 ug/L	100
34) Trichloroethene	5.95	95	1764	0.196 ug/L	92
35) Methylcyclohexane	6.15	83	1309	0.086 ug/L #	64
37) 1,2-Dichloropropane	6.10	63	4693	0.567 ug/L #	86
42) Toluene	7.41	91	2928	0.081 ug/L	96
44) trans-1,3-Dichloropropene	7.64	75	768	0.072 ug/L	86
48) 2-Hexanone	8.12	43	12966	3.414 ug/L #	72
51) Chlorobenzene	8.90	112	40799	1.767 ug/L	98
52) Ethylbenzene	9.04	91	15768	0.378 ug/L	99

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MSVOA_V
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Quant Time: Apr 10 05:41:08 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR040920WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Apr 10 05:37:21 2020
Response via : Initial Calibration

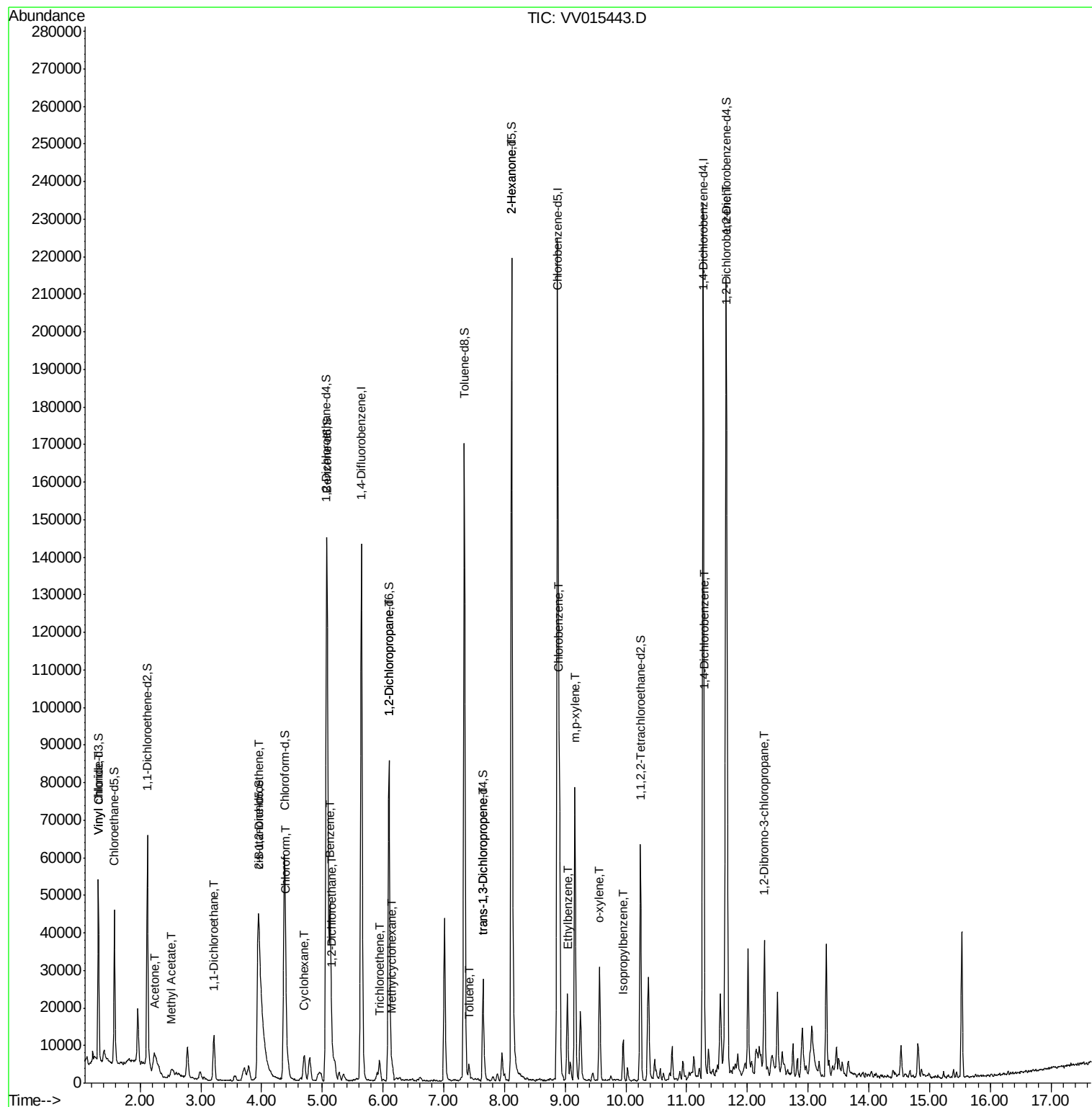
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-xylene	9.16	106	20398	1.295	ug/L	100
54) o-xylene	9.57	106	7366	0.483	ug/L	94
56) Isopropylbenzene	9.95	105	6646	0.159	ug/L	98
63) 1,4-Dichlorobenzene	11.30	146	3436	0.191	ug/L	93
65) 1,2-Dichlorobenzene	11.67	146	29354	1.820	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.28	75	366	0.296	ug/L #	6

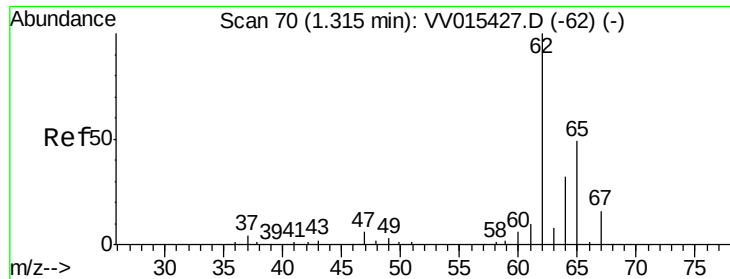
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV040920\
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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.174 ug/L

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VV015443.D

Acq: 10 Apr 2020 01:33

Instrument :

MSVOA_V

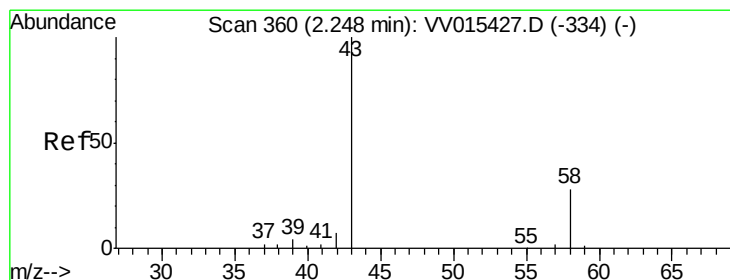
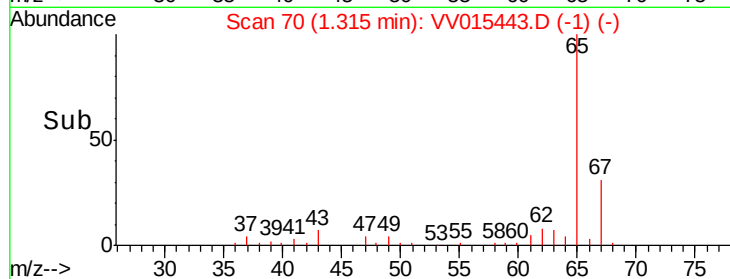
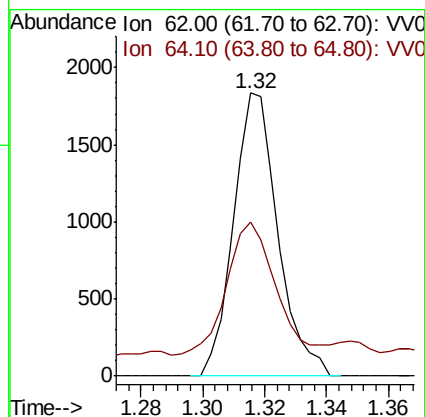
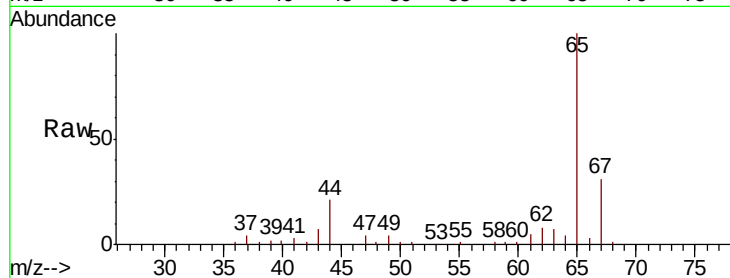
ClientSampled :

Tot Ion: 62 Resp: 1834

Ion Ratio Lower Upper

62 100

64 54.4 22.5 41.7#



#13

Acetone

Concen: 7.011 ug/L

RT: 2.23 min Scan# 356

Delta R.T. -0.01 min

Lab File: VV015443.D

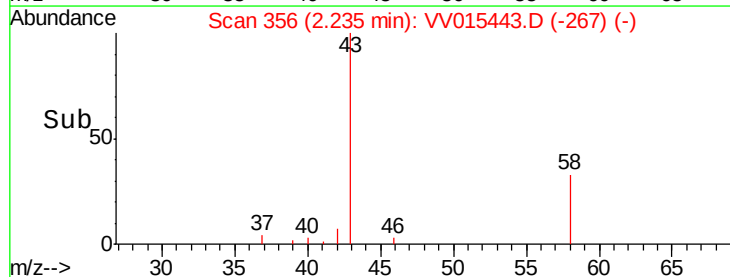
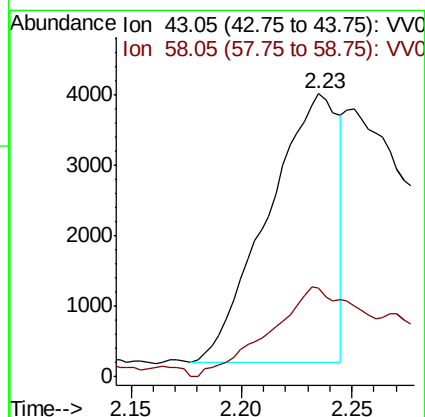
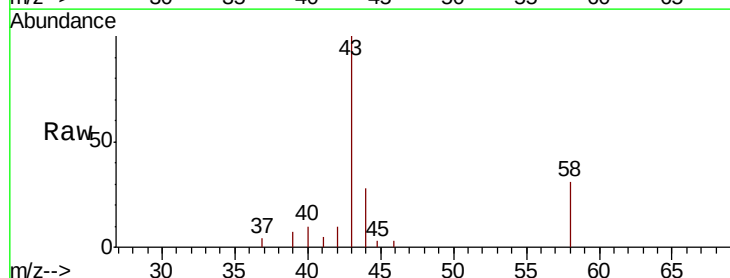
Acq: 10 Apr 2020 01:33

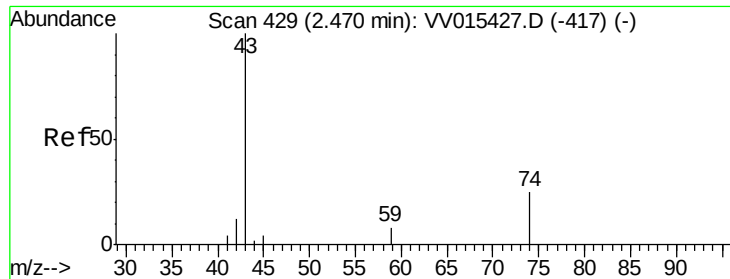
Tgt Ion: 43 Resp: 8403

Ion Ratio Lower Upper

43 100

58 42.6 0.0 22.2#

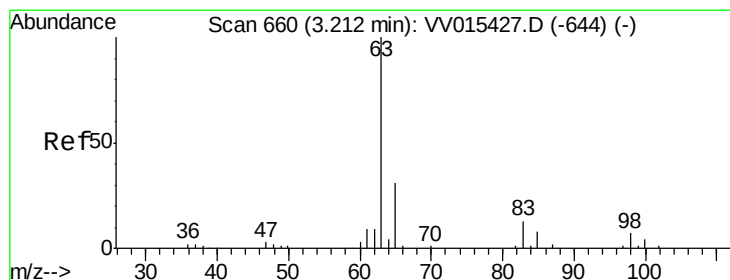
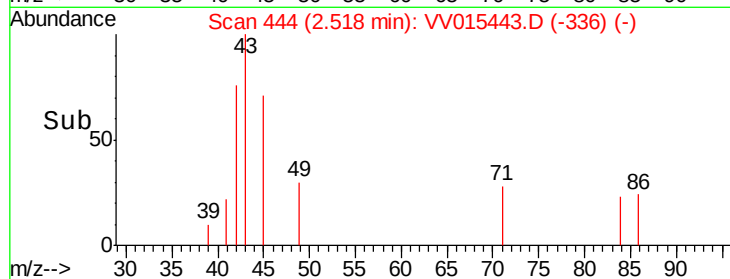
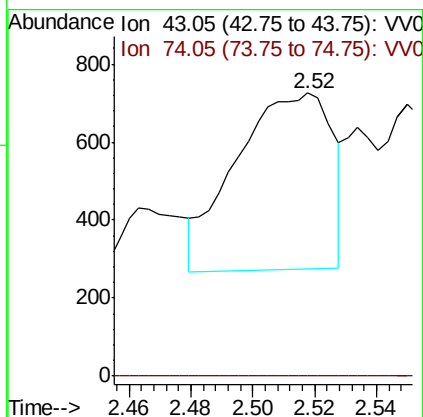
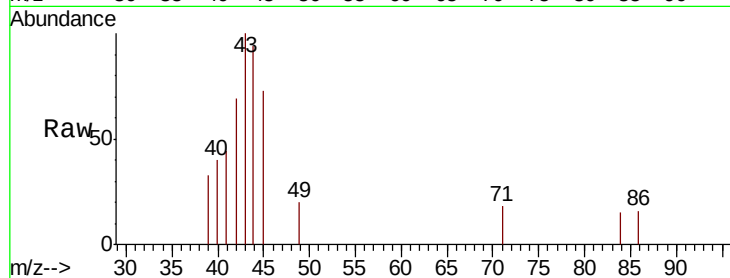




#15
Methyl Acetate
Concen: 0.275 ug/L
RT: 2.52 min Scan# 444
Delta R.T. 0.05 min
Lab File: VV015443.D
Acq: 10 Apr 2020 01:33

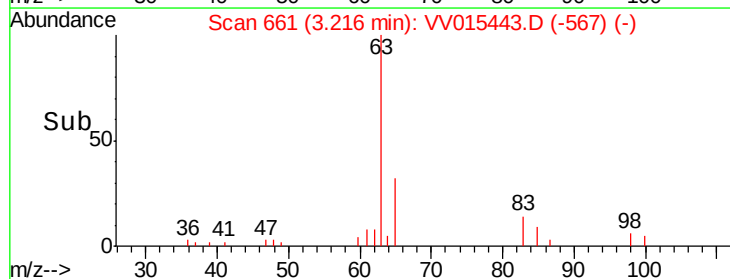
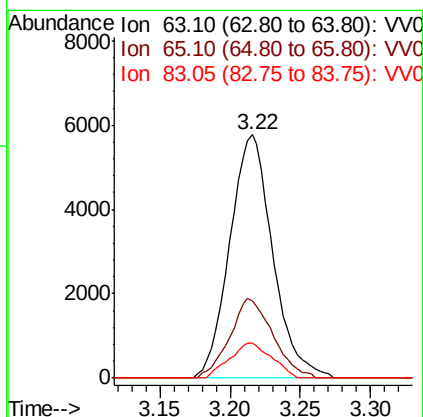
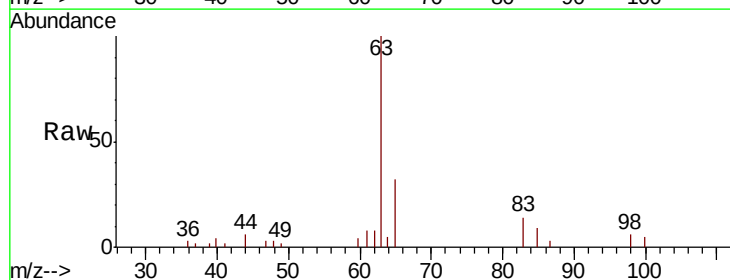
Instrument :
MSVOA_V
ClientSampleId :

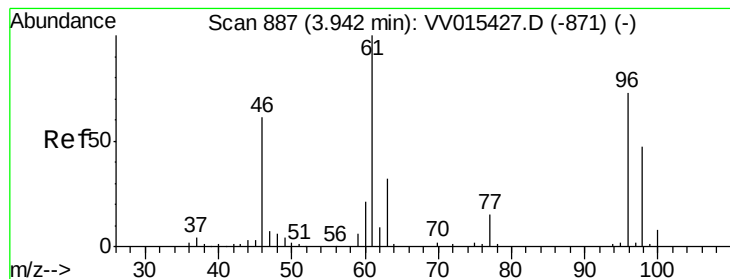
Tot Ion: 43 Resp: 975
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#



#19
1,1-Dichloroethane
Concen: 0.790 ug/L
RT: 3.22 min Scan# 661
Delta R.T. 0.00 min
Lab File: VV015443.D
Acq: 10 Apr 2020 01:33

Tgt Ion: 63 Resp: 12271
Ion Ratio Lower Upper
63 100
65 31.9 21.3 39.6
83 14.3 9.4 17.6





#22

cis-1,2-Dichloroethene

Concen: 0.993 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.00 min

Lab File: VV015443.D

Acq: 10 Apr 2020 01:33

Instrument :
MSVOA_V
ClientSampleId :

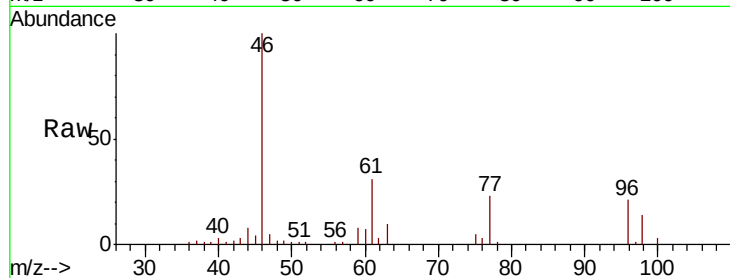
Tot Ion: 96 Resp: 8495

Ion Ratio Lower Upper

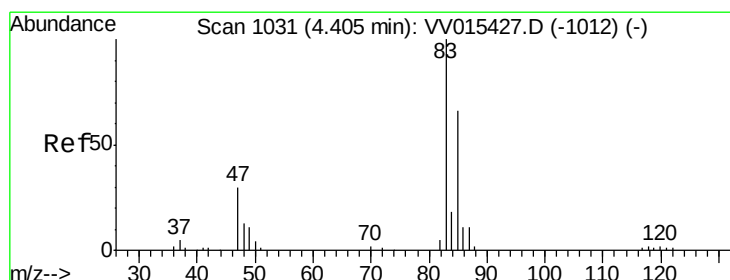
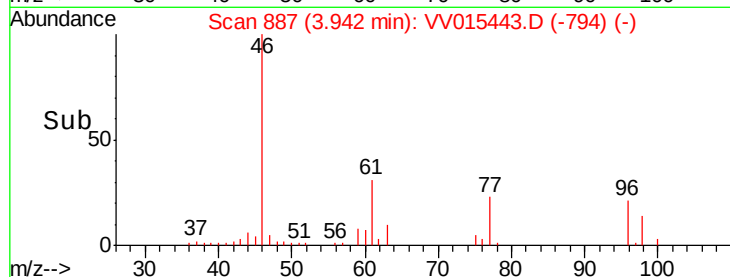
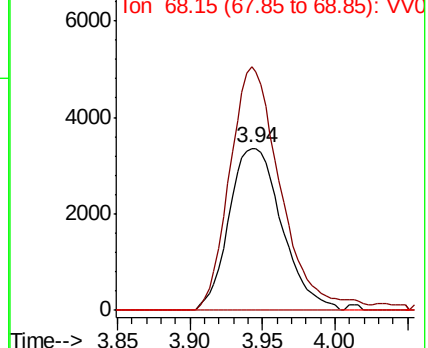
96 100

61 150.6 100.0 185.8

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



#25

Chloroform

Concen: 0.224 ug/L

RT: 4.41 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VV015443.D

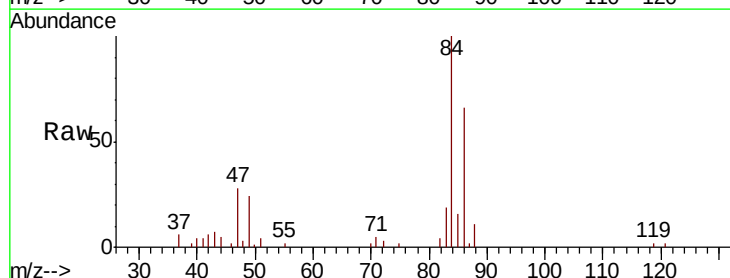
Acq: 10 Apr 2020 01:33

Tgt Ion: 83 Resp: 3561

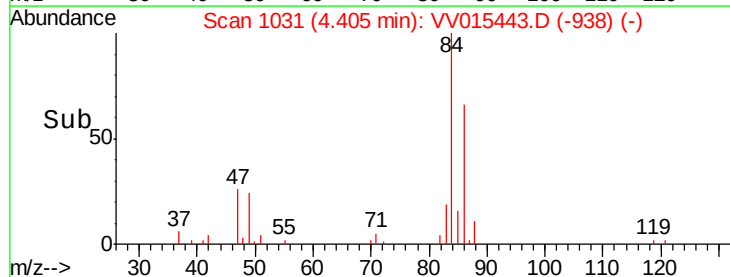
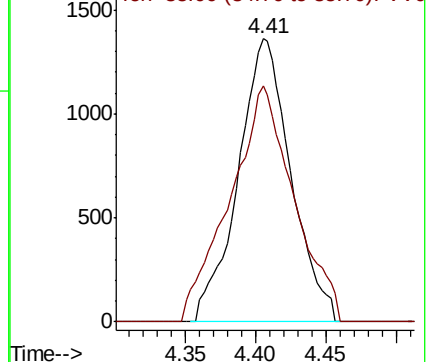
Ion Ratio Lower Upper

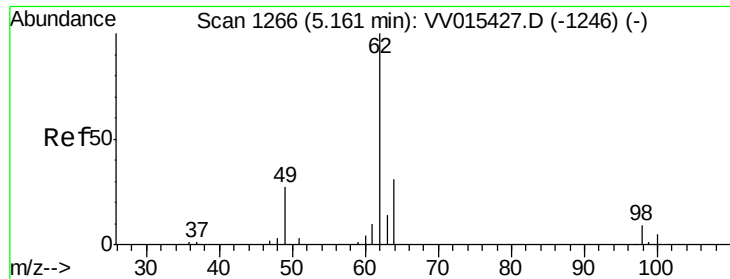
83 100

85 83.5 45.9 85.3



Abundance Ion 83.05 (82.75 to 83.75): VV0
Ion 85.00 (84.70 to 85.70): VV0

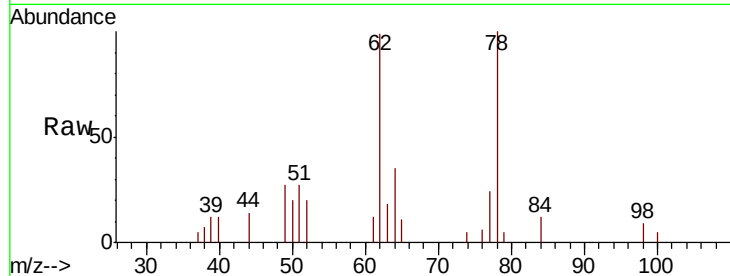




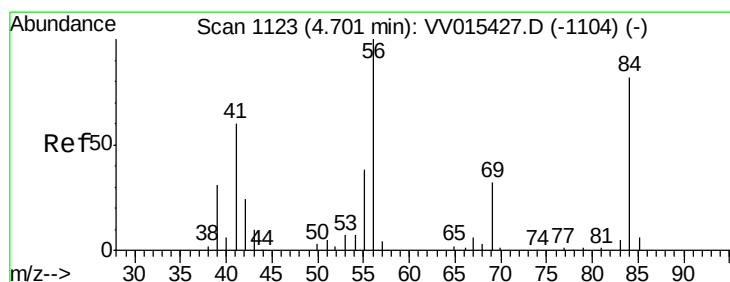
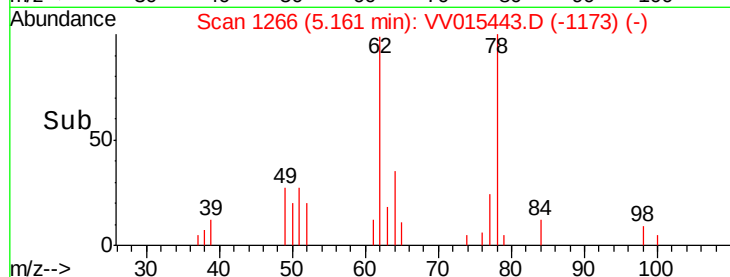
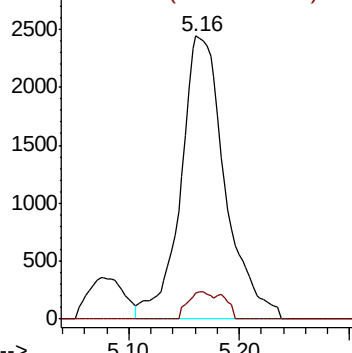
#27
 1,2-Dichloroethane
 Concen: 0.662 ug/L
 RT: 5.16 min Scan# 1266
 Delta R.T. 0.00 min
 Lab File: VV015443.D
 Acq: 10 Apr 2020 01:33

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 62 Resp: 6799
 Ion Ratio Lower Upper
 62 100
 98 9.2 6.6 10.0

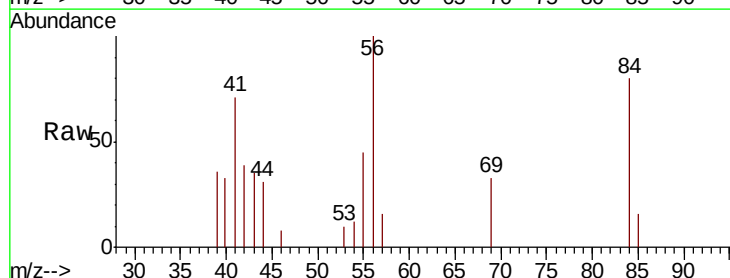


Abundance Ion 62.00 (61.70 to 62.70): VV0
 Ion 98.05 (97.75 to 98.75): VV0

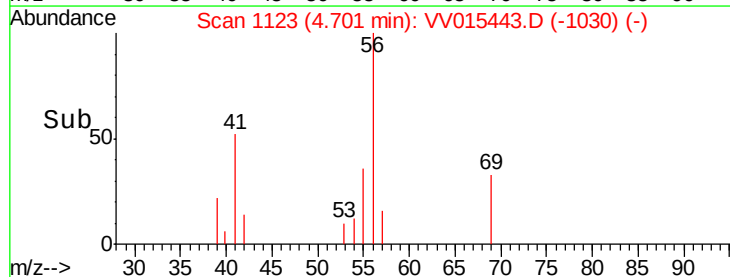
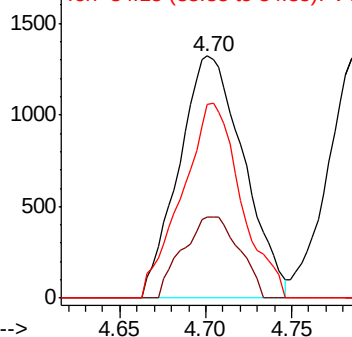


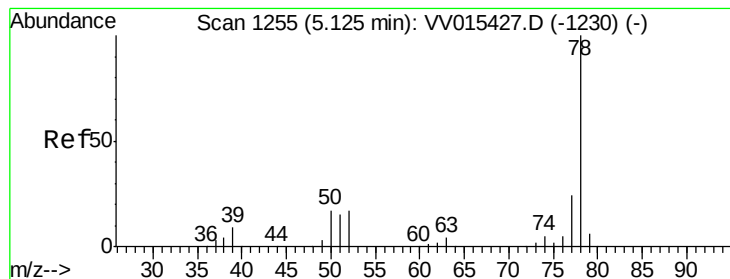
#30
 Cyclohexane
 Concen: 0.226 ug/L
 RT: 4.70 min Scan# 1123
 Delta R.T. 0.00 min
 Lab File: VV015443.D
 Acq: 10 Apr 2020 01:33

Tgt Ion: 56 Resp: 3466
 Ion Ratio Lower Upper
 56 100
 69 29.0 24.2 36.4
 84 73.1 68.4 102.6



Abundance Ion 56.10 (55.80 to 56.80): VV0
 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0





#33

Benzene

Concen: 1.347 ug/L

RT: 5.13 min Scan# 1255

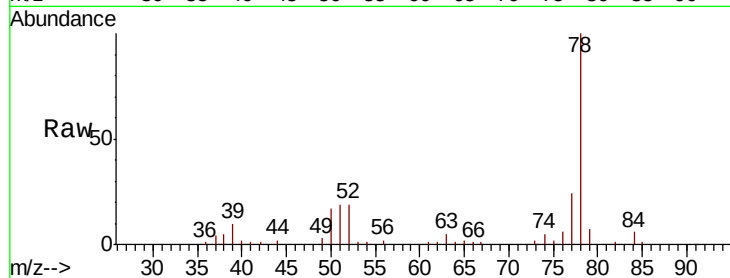
Delta R.T. 0.00 min

Lab File: VV015443.D

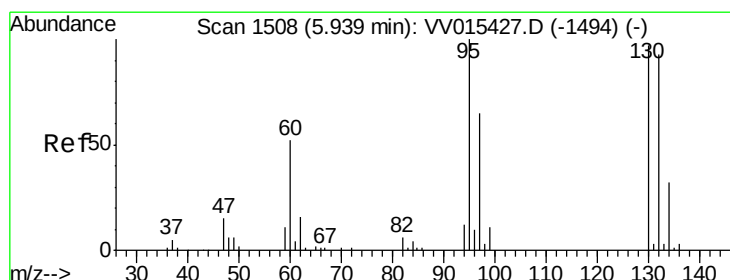
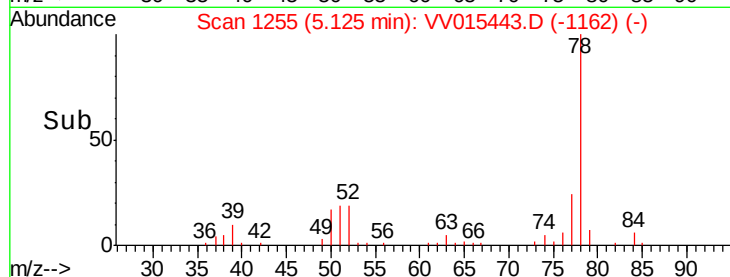
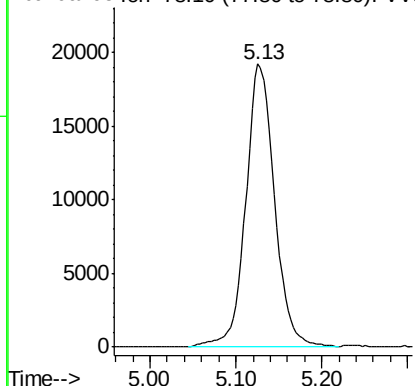
Acq: 10 Apr 2020 01:33

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 78 Resp: 44945



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 0.196 ug/L

RT: 5.95 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VV015443.D

Acq: 10 Apr 2020 01:33

Tgt Ion: 95 Resp: 1764

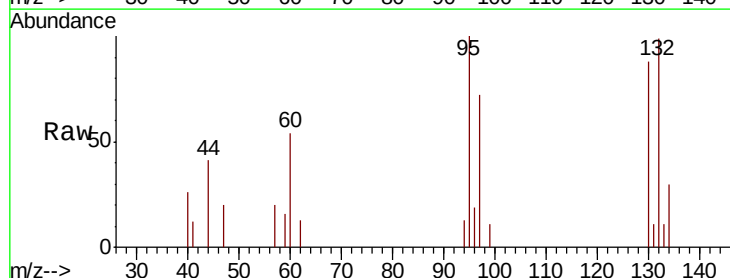
Ion	Ratio	Lower	Upper
95	100		
97	72.2	45.4	84.4
132	98.6	64.8	120.4
130	87.6	67.4	125.2

Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



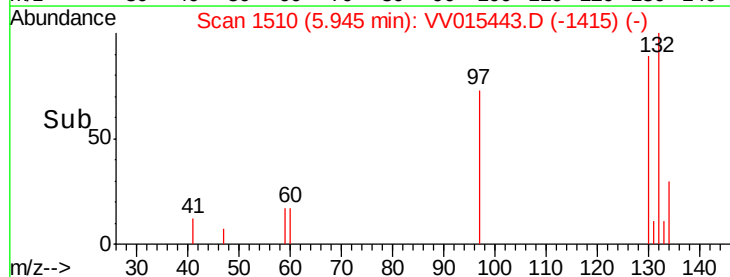
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

Time-->



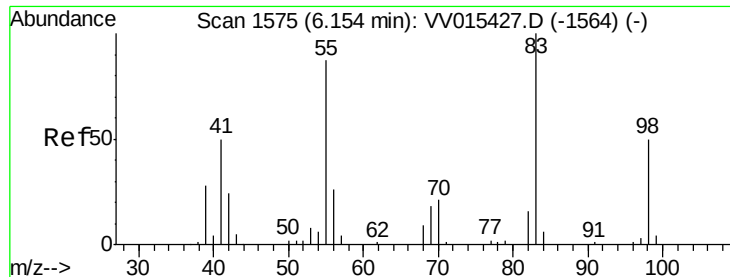
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

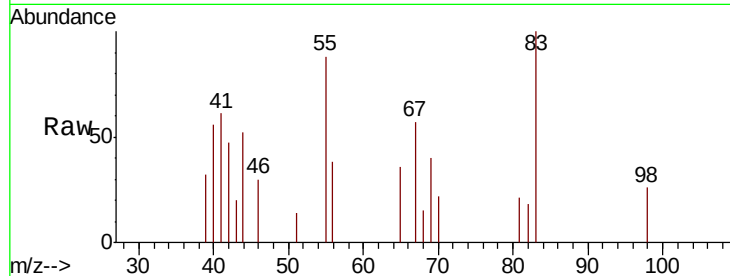
Time-->



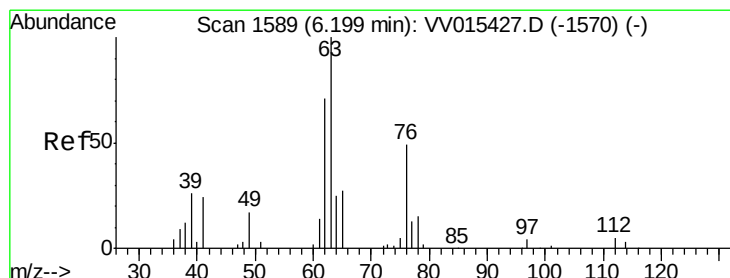
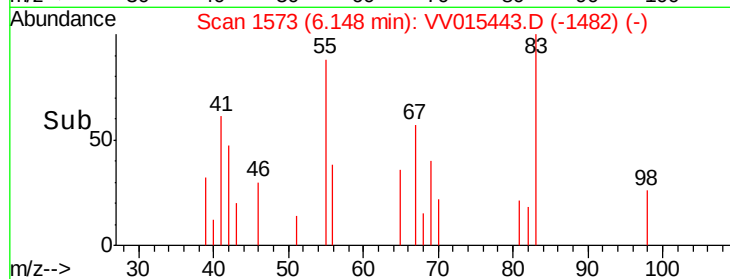
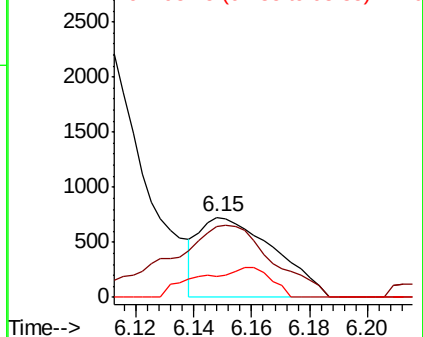
#35
Methvlcvclohexane
Concen: 0.086 ug/L
RT: 6.15 min Scan# 1573
Delta R.T. -0.01 min
Lab File: VV015443.D
Acq: 10 Apr 2020 01:33

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 83 Resp: 1309
Ion Ratio Lower Upper
83 100
55 125.3 66.6 99.8#
98 36.3 38.7 58.1#

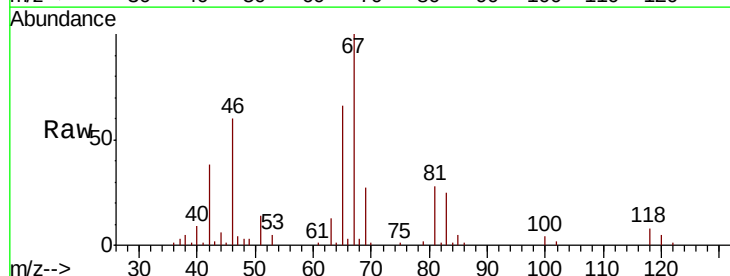


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

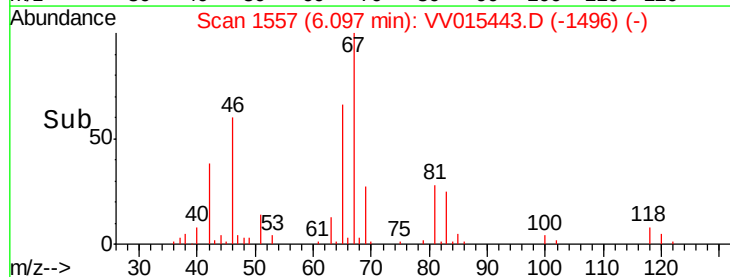
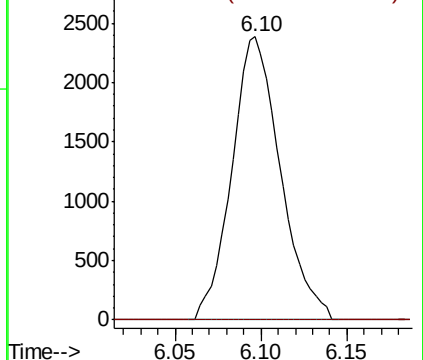


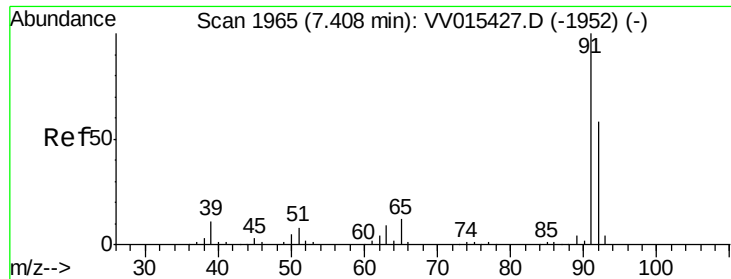
#37
1,2-Dichloropropane
Concen: 0.567 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.10 min
Lab File: VV015443.D
Acq: 10 Apr 2020 01:33

Tgt Ion: 63 Resp: 4693
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V





#42

Toluene

Concen: 0.081 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV015443.D

Acq: 10 Apr 2020 01:33

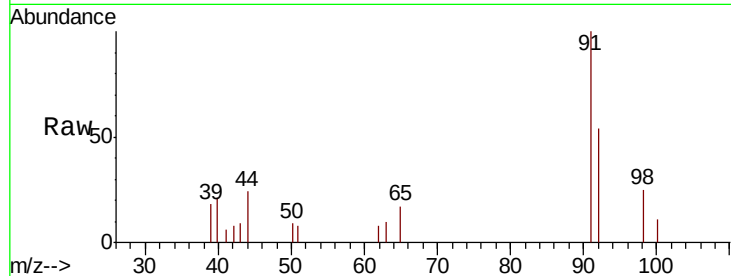
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 2928

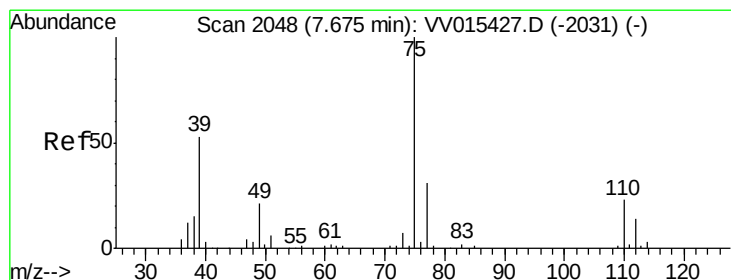
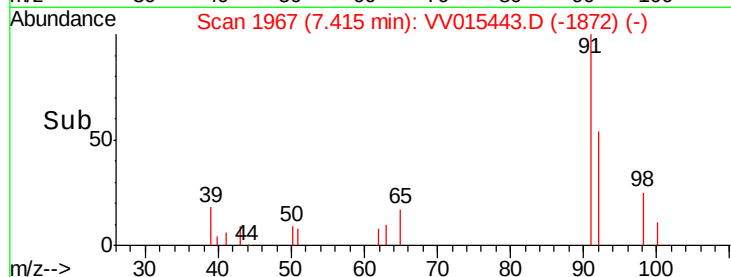
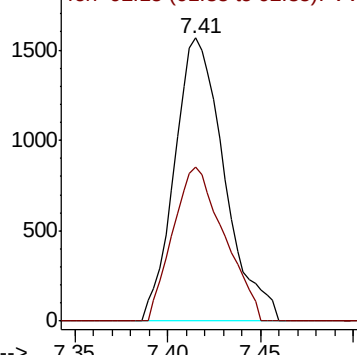
Ion Ratio Lower Upper

91 100

92 54.3 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VV0
Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.072 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV015443.D

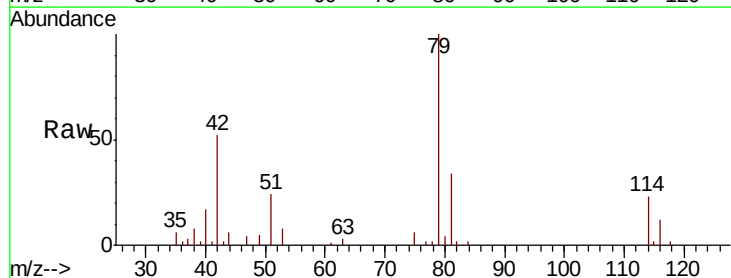
Acq: 10 Apr 2020 01:33

Tgt Ion: 75 Resp: 768

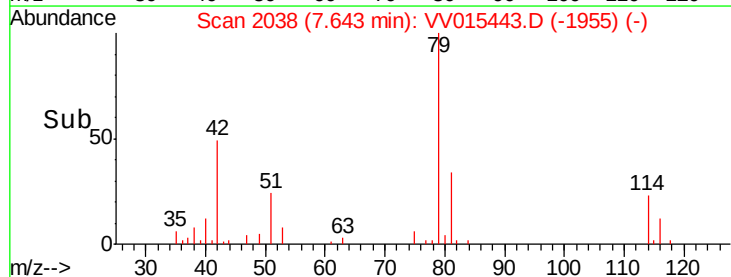
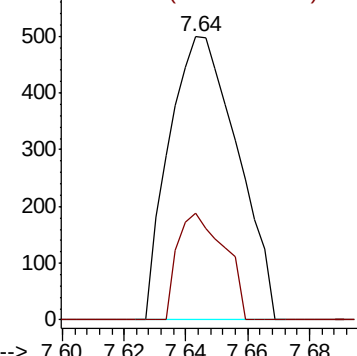
Ion Ratio Lower Upper

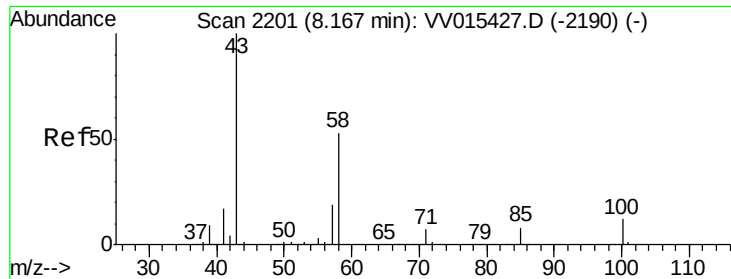
75 100

77 37.7 21.0 39.0



Abundance Ion 75.05 (74.75 to 75.75): VV0
Ion 77.05 (76.75 to 77.75): VV0

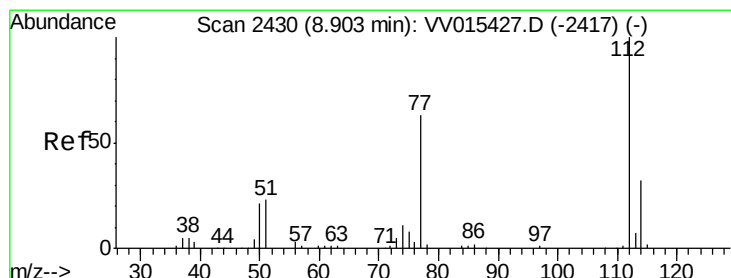
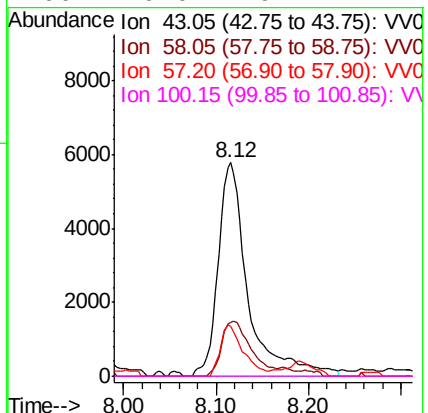
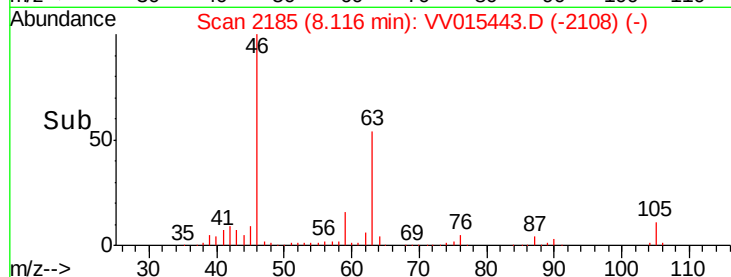
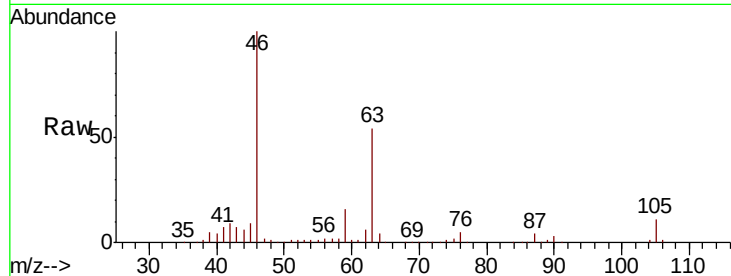




#48
2-Hexanone
Concen: 3.414 ug/L
RT: 8.12 min Scan# 2185
Delta R.T. -0.05 min
Lab File: VV015443.D
Acq: 10 Apr 2020 01:33

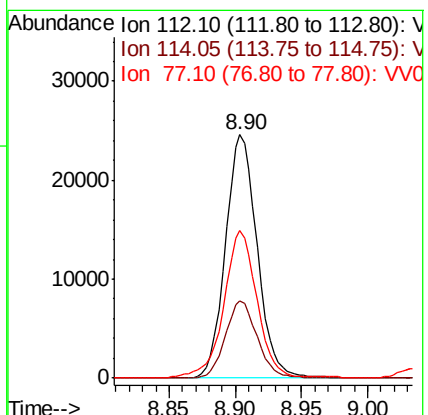
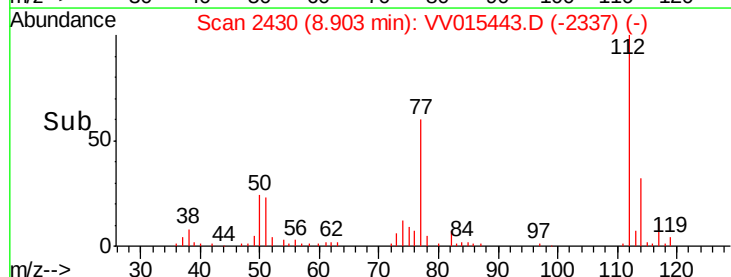
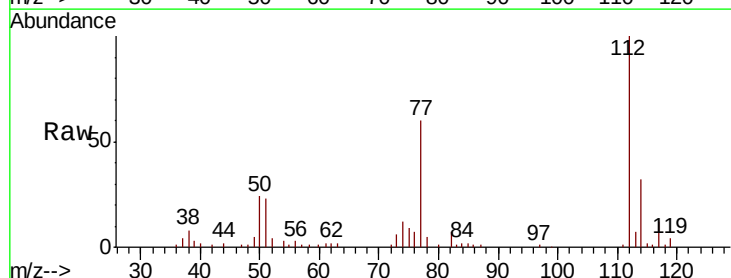
Instrument :
MSVOA_V
ClientSampleId :

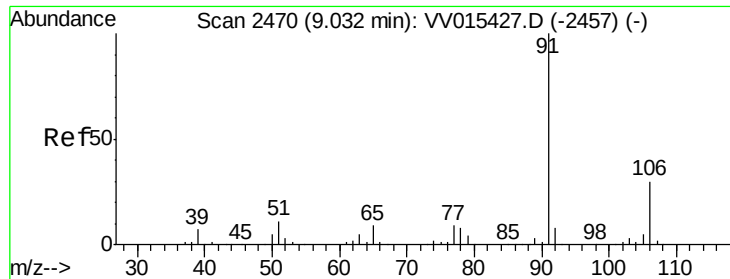
Tot Ion: 43 Resp: 12966
Ion Ratio Lower Upper
43 100
58 25.0 41.4 62.0#
57 18.5 15.0 22.4
100 0.0 9.4 14.2#



#51
Chlorobenzene
Concen: 1.767 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV015443.D
Acq: 10 Apr 2020 01:33

Tgt Ion: 112 Resp: 40799
Ion Ratio Lower Upper
112 100
114 31.8 22.9 42.5
77 60.4 49.8 74.8





#52

Ethylbenzene

Concen: 0.378 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV015443.D

Acq: 10 Apr 2020 01:33

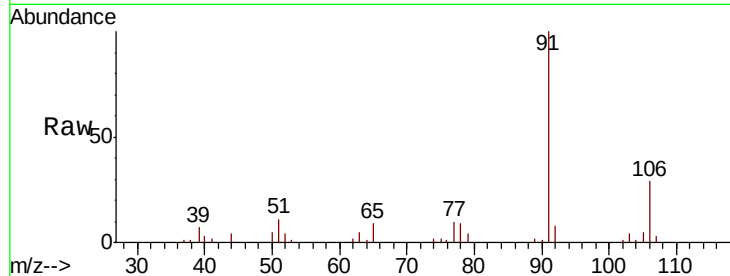
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 15768

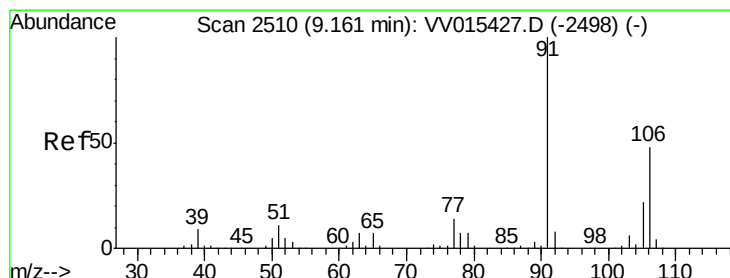
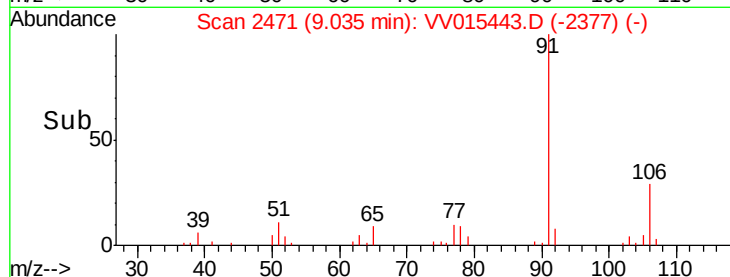
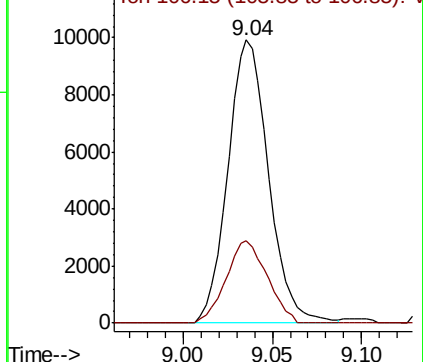
Ion Ratio Lower Upper

91 100

106 29.2 20.8 38.6



Abundance Ion 91.15 (90.85 to 91.85): VV015443.D (-2471) (-)



#53

m,p-xylene

Concen: 1.295 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV015443.D

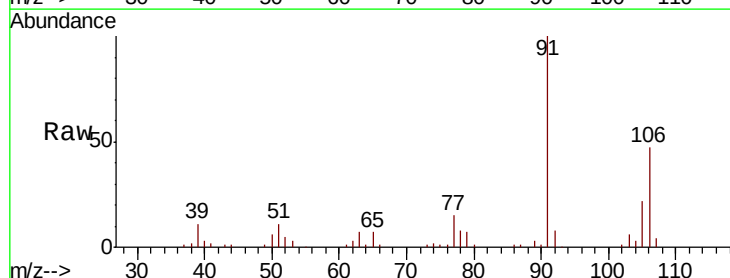
Acq: 10 Apr 2020 01:33

Tgt Ion: 106 Resp: 20398

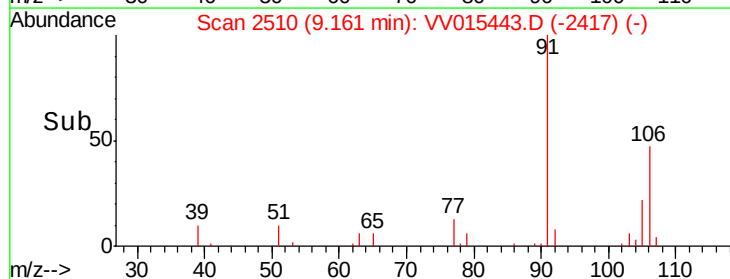
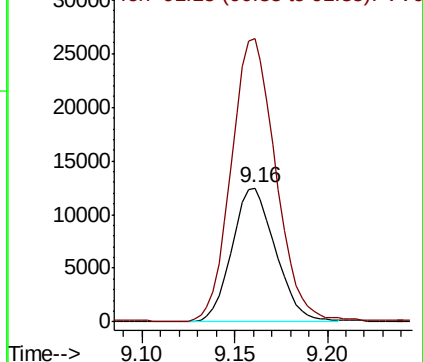
Ion Ratio Lower Upper

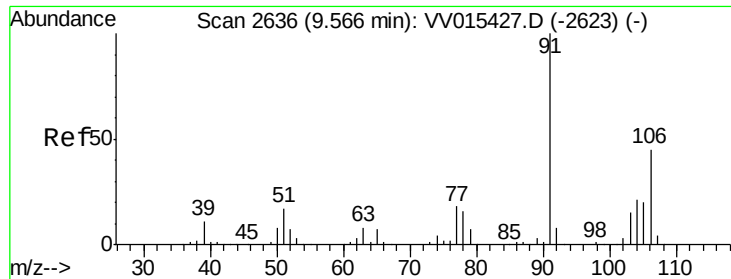
106 100

91 211.8 147.9 274.7



Abundance Ion 106.15 (105.85 to 106.85): VV015443.D (-2510) (-)

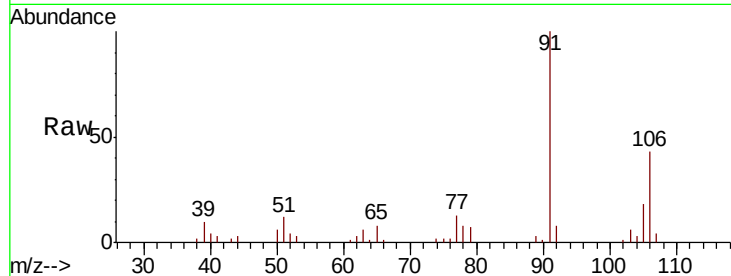




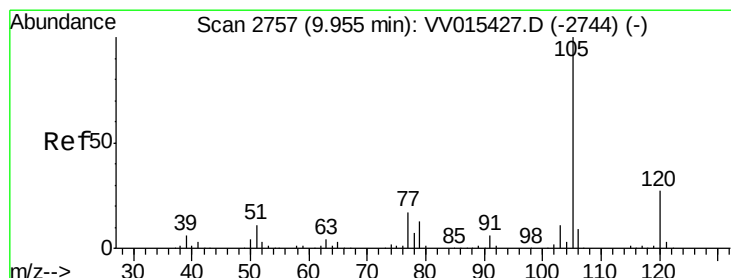
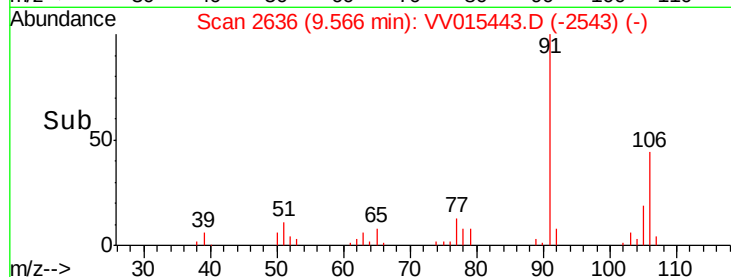
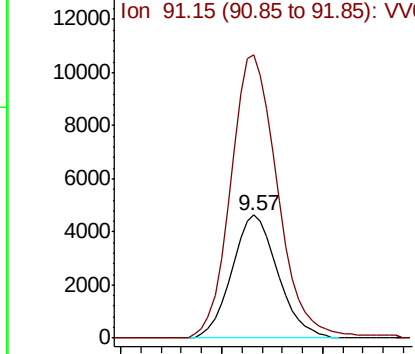
#54
o-xylene
Concen: 0.483 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV015443.D
Acq: 10 Apr 2020 01:33

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 7366
Ion Ratio Lower Upper
106 100
91 229.9 154.5 286.9

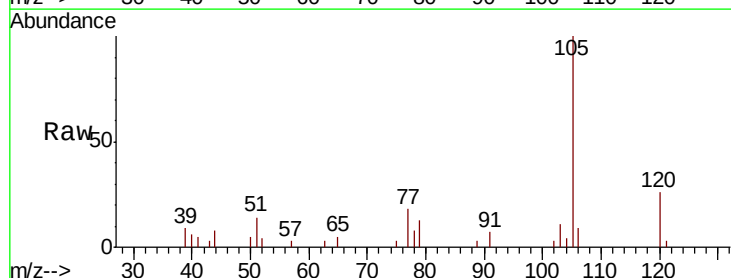


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

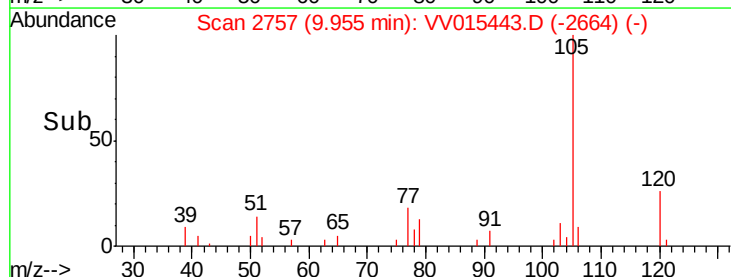
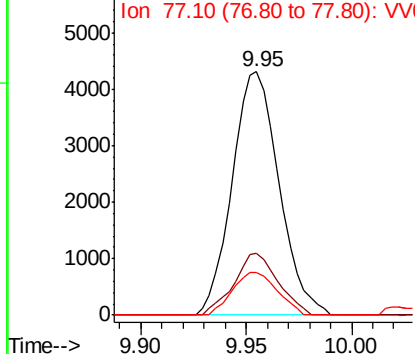


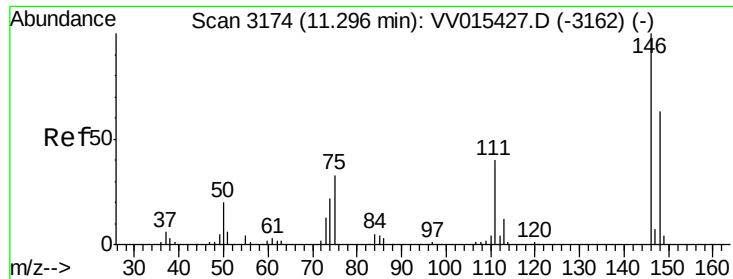
#56
Isopropylbenzene
Concen: 0.159 ug/L
RT: 9.95 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VV015443.D
Acq: 10 Apr 2020 01:33

Tgt Ion:105 Resp: 6646
Ion Ratio Lower Upper
105 100
120 23.9 20.7 31.1
77 16.7 13.5 20.3



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): VV0

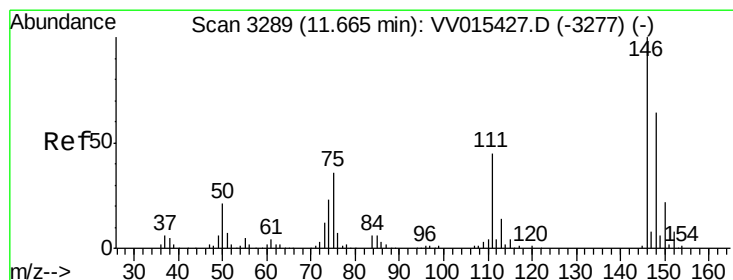
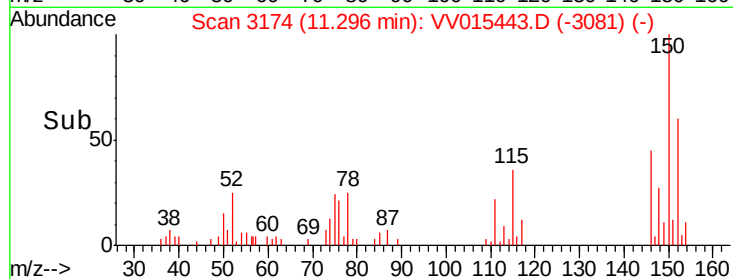
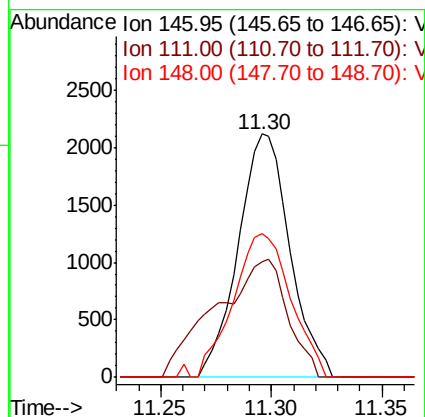
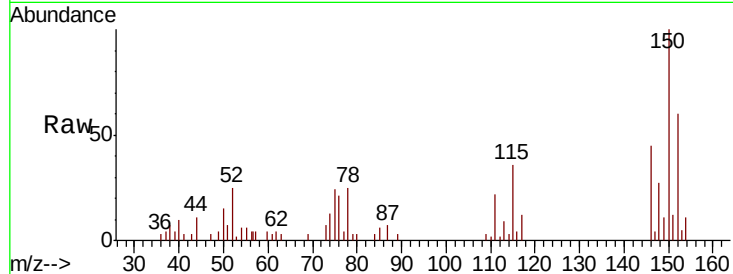




#63
 1,4-Dichlorobenzene
 Concen: 0.191 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV015443.D
 Acq: 10 Apr 2020 01:33

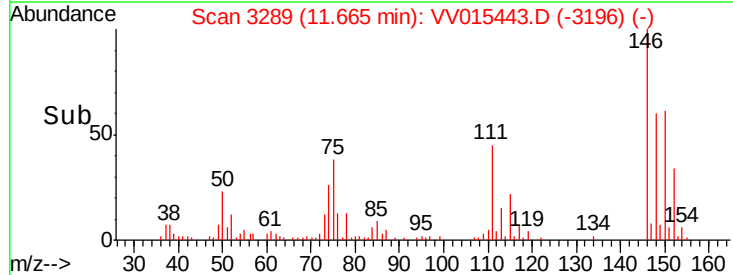
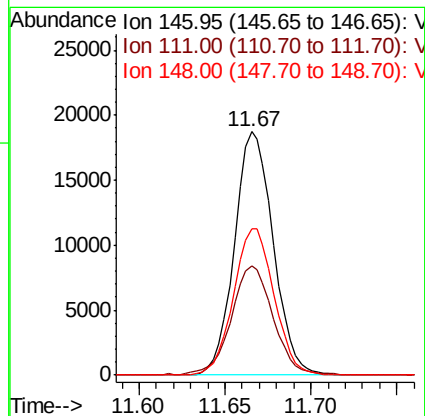
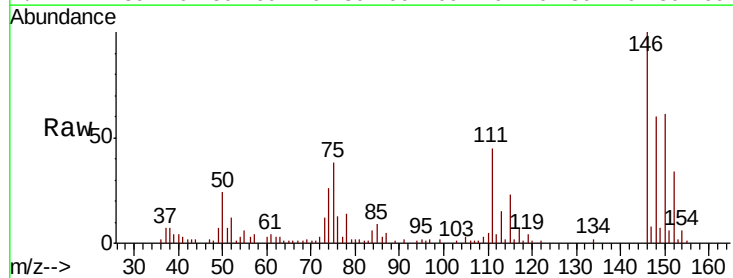
Instrument :
 MSVOA_V
 ClientSampled :

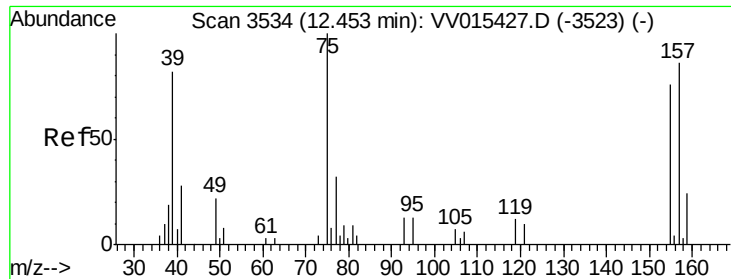
Tot Ion:146 Resp: 3436
 Ion Ratio Lower Upper
 146 100
 111 47.7 29.4 54.6
 148 58.8 44.3 82.3



#65
 1,2-Dichlorobenzene
 Concen: 1.820 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV015443.D
 Acq: 10 Apr 2020 01:33

Tgt Ion:146 Resp: 29354
 Ion Ratio Lower Upper
 146 100
 111 44.8 35.8 53.6
 148 60.3 50.2 75.4





#66

1,2-Dibromo-3-chloropropane

Concen: 0.296 ug/L

RT: 12.28 min Scan# 3480

Delta R.T. -0.17 min

Lab File: VV015443.D

Acq: 10 Apr 2020 01:33

Instrument :

MSVOA_V

ClientSampleId :

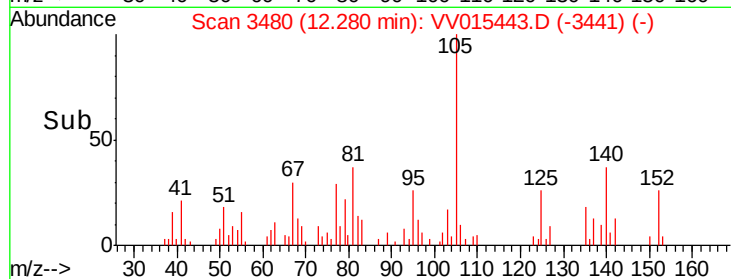
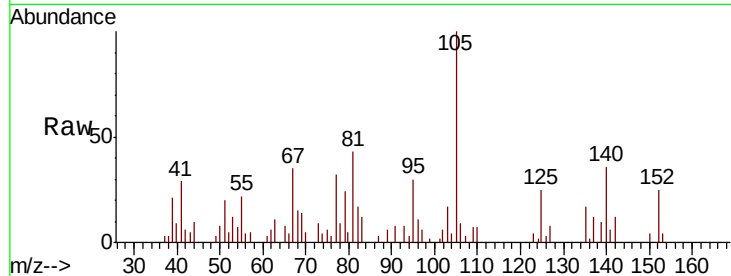
Tot Ion: 75 Resp: 366

Ion Ratio Lower Upper

75 100

155 0.0 60.8 91.2#

157 0.0 75.7 113.5#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

