

Data File : VV012289.D
Acq On : 19 Aug 2019 20:51
Operator : SY/MD
Sample : K4395-04
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0AE2

Quant Time: Aug 20 02:39:15 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR081919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Aug 20 02:35:23 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	119459	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	115134	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	68992	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	24048	3.94	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.80%
7) Chloroethane-d5	1.58	69	19207	4.31	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.20%
11) 1,1-Dichloroethene-d2	2.12	63	35273	3.04	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.80%
20) 2-Butanone-d5	3.97	46	39771	24.17	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	48.34%
24) Chloroform-d	4.40	84	73303	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.80%
26) 1,2-Dichloroethane-d4	5.08	65	39378	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.60%
32) Benzene-d6	5.09	84	137946	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.60%
36) 1,2-Dichloropropane-d6	6.12	67	40413	4.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.80%
41) Toluene-d8	7.36	98	132848	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.60%
43) trans-1,3-Dichloropropene-	7.66	79	16913	4.57	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.40%
46) 2-Hexanone-d5	8.14	63	66017	56.57	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	113.14%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	31481	4.81	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	61573	4.44	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.80%

Target Compounds

						Qvalue
3) Chloromethane	1.25	50	1145	0.153	ug/L	84
8) Chloroethane	1.60	64	386	0.099	ug/L #	41
13) Acetone	2.21	43	46355	53.848	ug/L #	1
14) Carbon disulfide	2.31	76	60680	3.987	ug/L	97
15) Methyl Acetate	2.47	43	33164	19.426	ug/L	93
17) Methyl tert-butyl Ether	2.81	73	9930	0.568	ug/L #	67
21) 2-Butanone	4.05	43	42457	25.993	ug/L	96
27) 1,2-Dichloroethane	5.14	62	4124	0.420	ug/L #	74
33) Benzene	5.14	78	351629	11.041	ug/L	100
37) 1,2-Dichloropropane	6.12	63	4954	0.665	ug/L #	81
39) cis-1,3-Dichloropropene	7.03	75	1333	0.113	ug/L #	74
40) 4-Methyl-2-pentanone	7.28	43	10816	2.764	ug/L #	86
42) Toluene	7.43	91	356900	10.125	ug/L	98
44) trans-1,3-Dichloropropene	7.67	75	958	0.101	ug/L #	78
45) 1,1,2-Trichloroethane	7.74	97	5708	0.998	ug/L #	21
48) 2-Hexanone	8.19	43	7273	2.583	ug/L #	64
50) 1,2-Dibromoethane	8.41	107	561	0.104	ug/L #	4

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV081919\
Quantitation Report (Not Reviewed)

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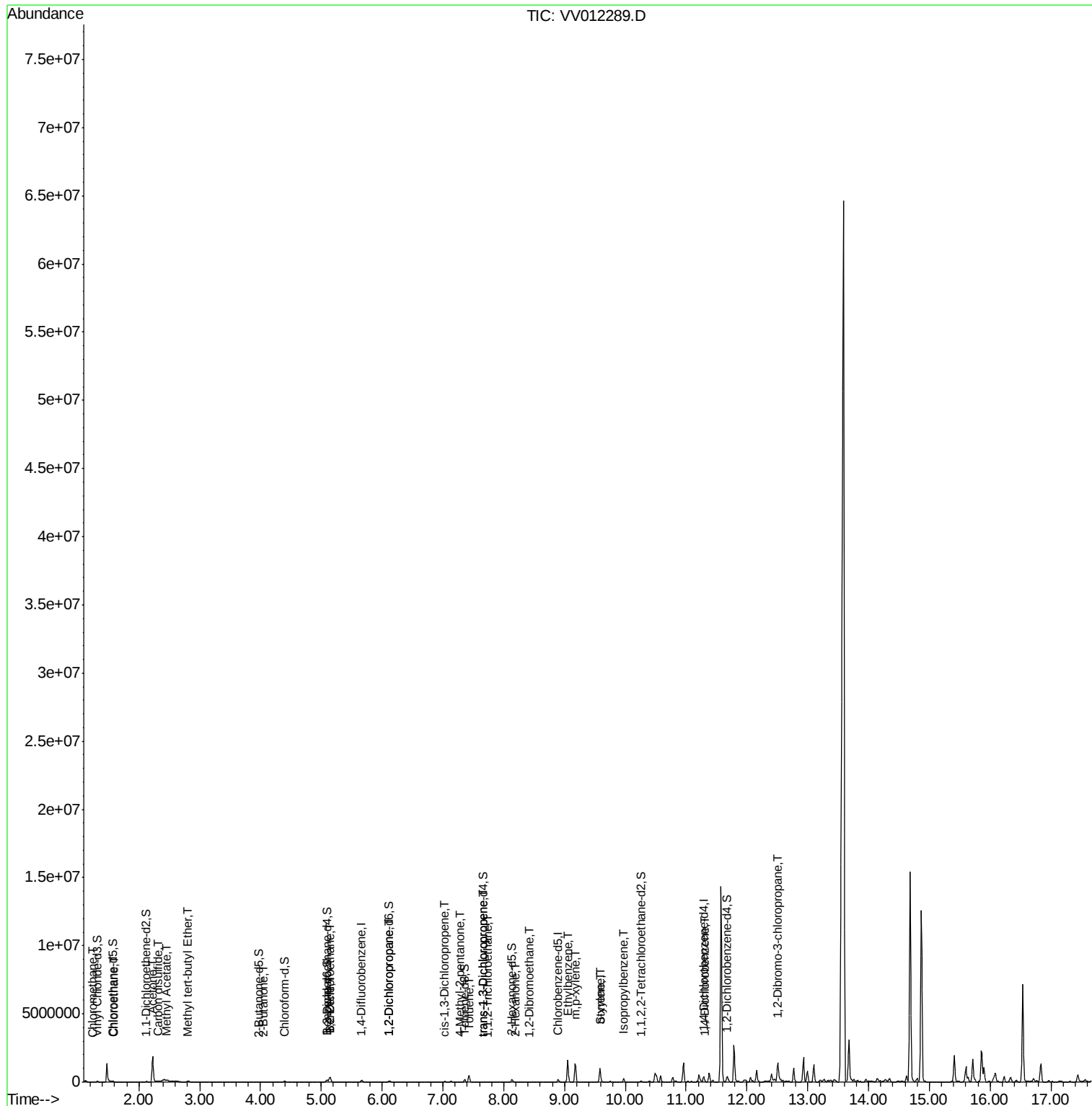
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.05	91	1082385	27.444	ug/L	99
53) m,p-xylene	9.18	106	370923	24.091	ug/L	97
54) o-xylene	9.59	106	254403	17.179	ug/L	99
55) Styrene	9.60	104	31676	1.266	ug/L #	5
56) Isopropylbenzene	9.97	105	148944	3.644	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	1766	0.076	ug/L	88
66) 1,2-Dibromo-3-chloropropan	12.50	75	24636	22.006	ug/L #	1

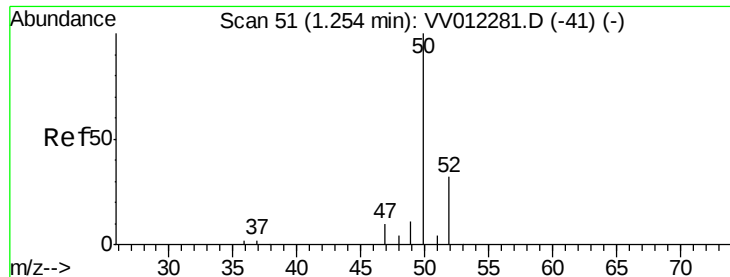
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.153 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012289.D

Acq: 19 Aug 2019 20:51

Instrument :

MSVOA_V

ClientSampled :

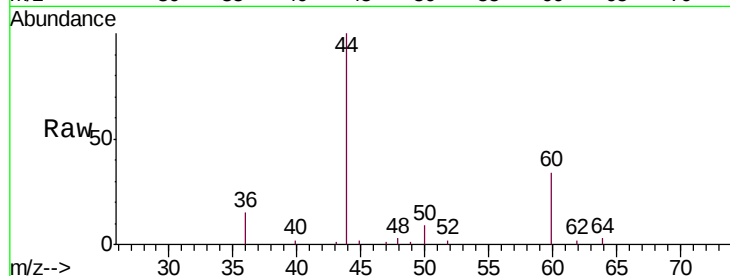
C0AE2

Tgt Ion: 50 Resp: 1145

Ion Ratio Lower Upper

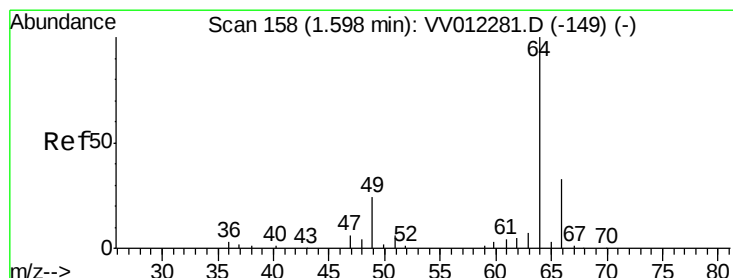
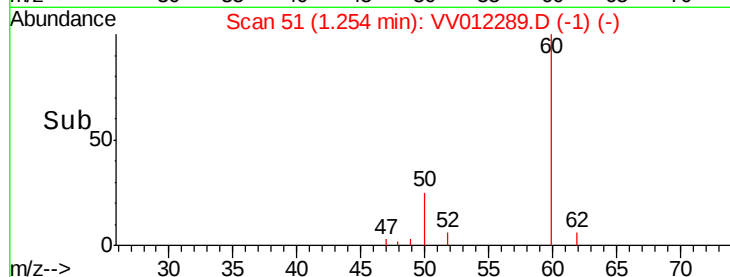
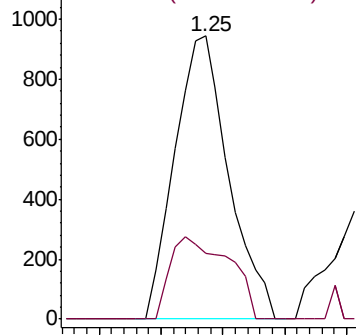
50 100

52 23.3 22.6 42.0



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#8

Chloroethane

Concen: 0.099 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV012289.D

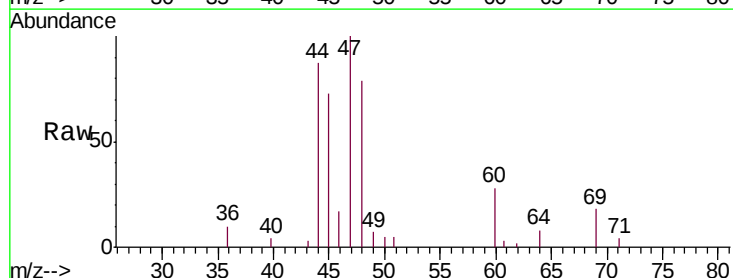
Acq: 19 Aug 2019 20:51

Tgt Ion: 64 Resp: 386

Ion Ratio Lower Upper

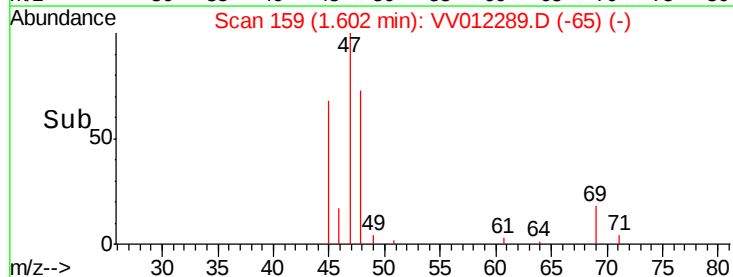
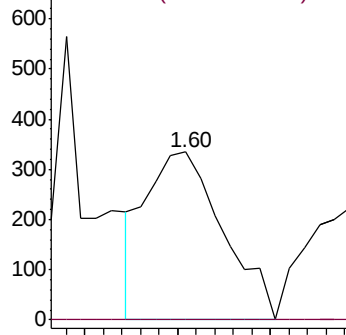
64 100

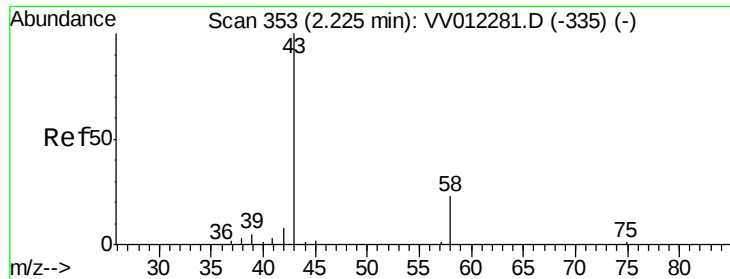
66 0.0 23.7 44.1#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0





#13

Acetone

Concen: 53.848 ug/L

RT: 2.21 min Scan# 349

Delta R.T. -0.01 min

Lab File: VV012289.D

Acq: 19 Aug 2019 20:51

Instrument :

MSVOA_V

ClientSampleId :

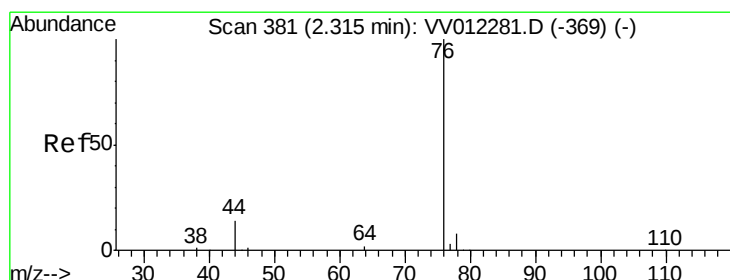
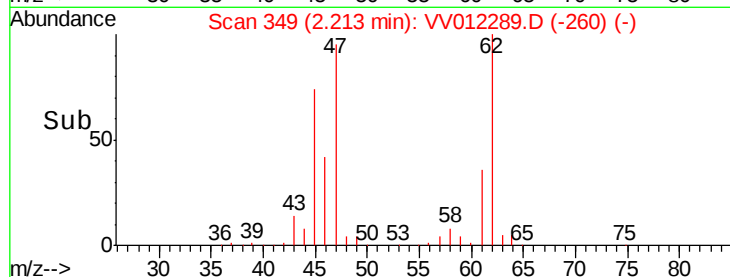
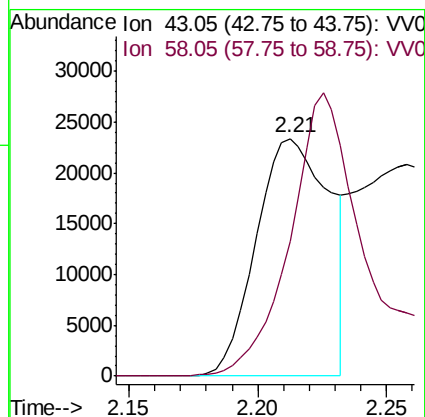
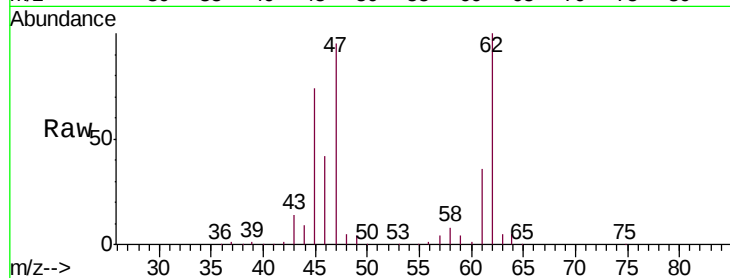
C0AE2

Tgt Ion: 43 Resp: 46355

Ion Ratio Lower Upper

43 100

58 117.9 0.0 25.6#



#14

Carbon disulfide

Concen: 3.987 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV012289.D

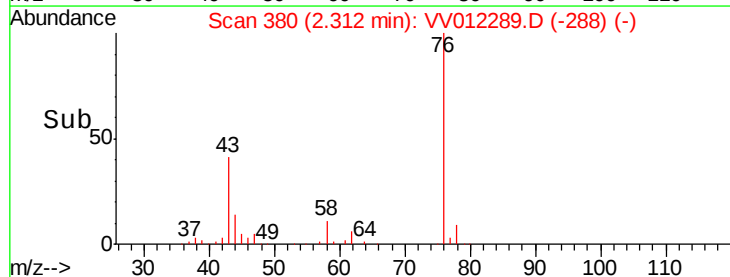
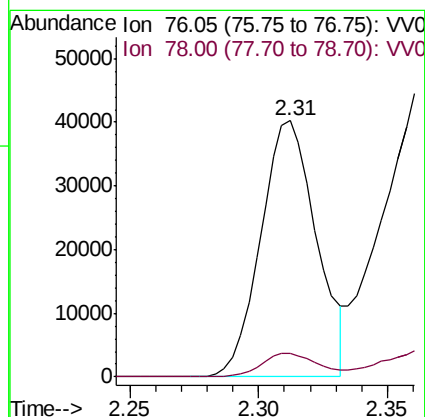
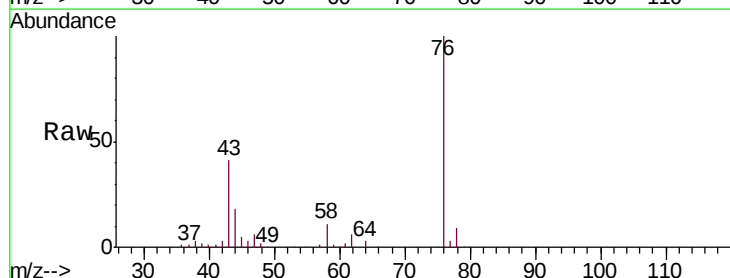
Acq: 19 Aug 2019 20:51

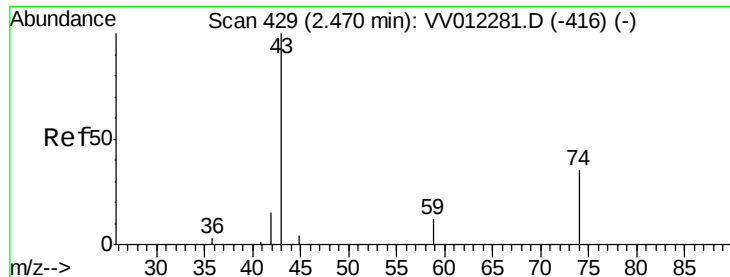
Tgt Ion: 76 Resp: 60680

Ion Ratio Lower Upper

76 100

78 9.2 8.3 12.5

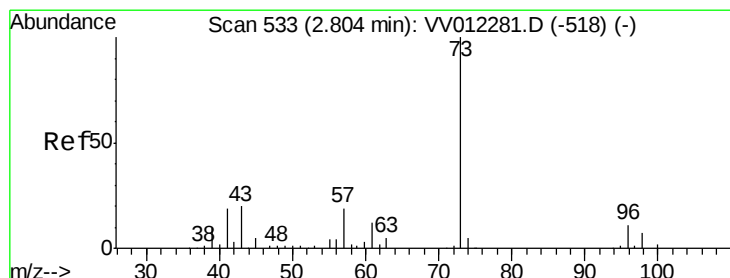
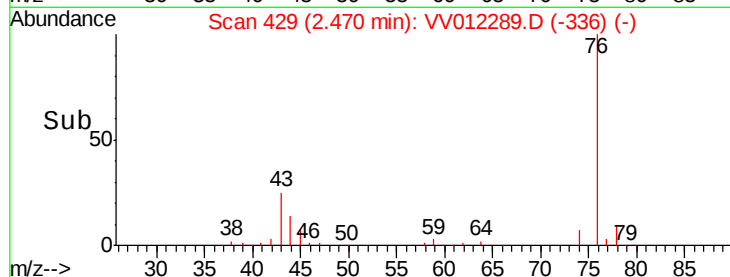
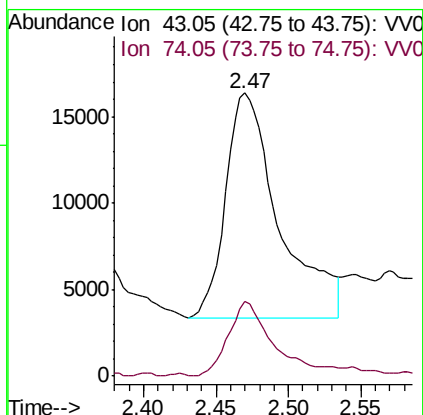
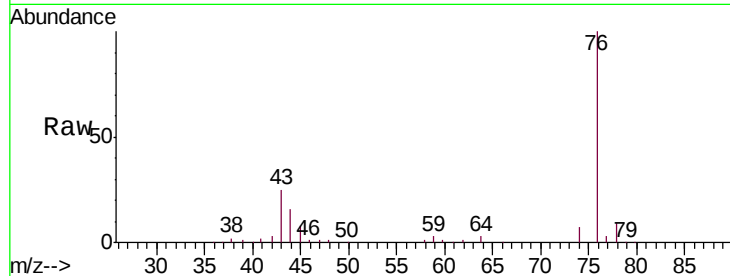




#15
Methyl Acetate
Concen: 19.426 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.00 min
Lab File: VV012289.D
Acq: 19 Aug 2019 20:51

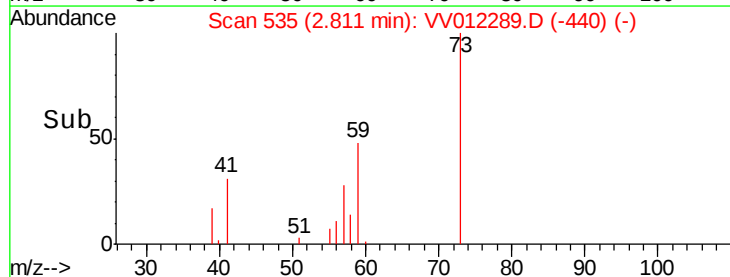
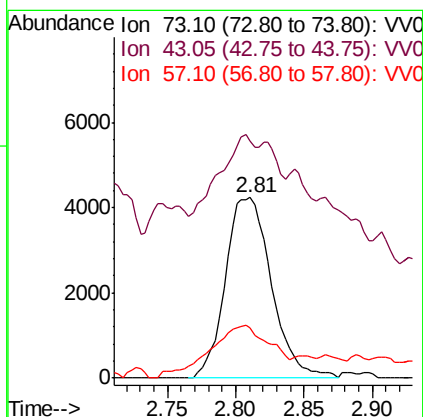
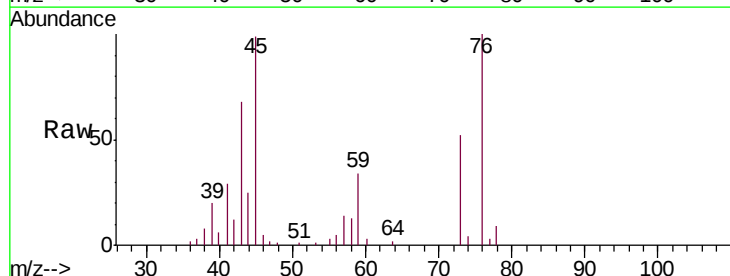
Instrument :
MSVOA_V
ClientSampled :
C0AE2

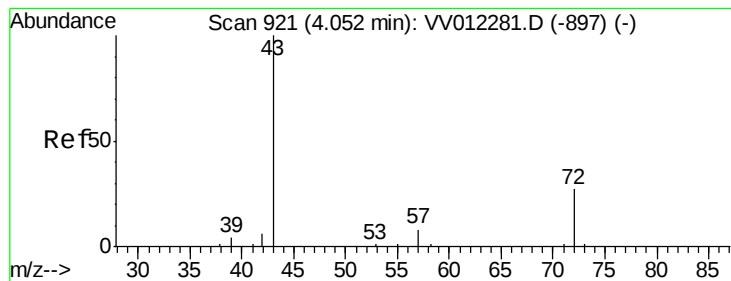
Tgt Ion: 43 Resp: 33164
Ion Ratio Lower Upper
43 100
74 27.0 24.9 37.3



#17
Methyl tert-butyl Ether
Concen: 0.568 ug/L
RT: 2.81 min Scan# 535
Delta R.T. 0.01 min
Lab File: VV012289.D
Acq: 19 Aug 2019 20:51

Tgt Ion: 73 Resp: 9930
Ion Ratio Lower Upper
73 100
43 32.5 17.0 25.4#
57 39.6 15.8 23.6#





#21

2-Butanone

Concen: 25.993 ug/L

RT: 4.05 min Scan# 920

Delta R.T. -0.00 min

Lab File: VV012289.D

Acq: 19 Aug 2019 20:51

Instrument :

MSVOA_V

ClientSampleId :

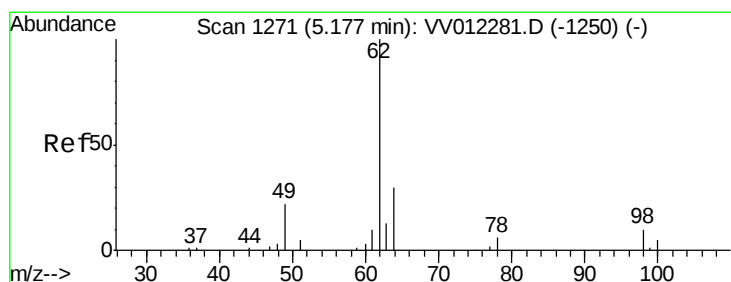
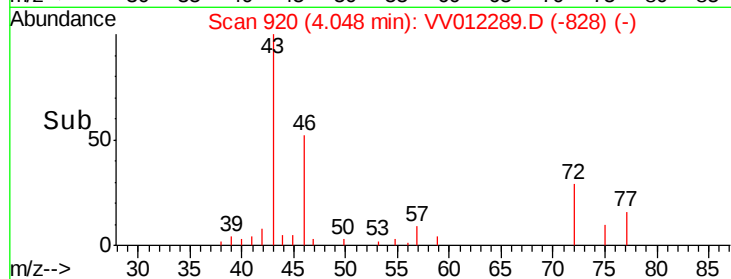
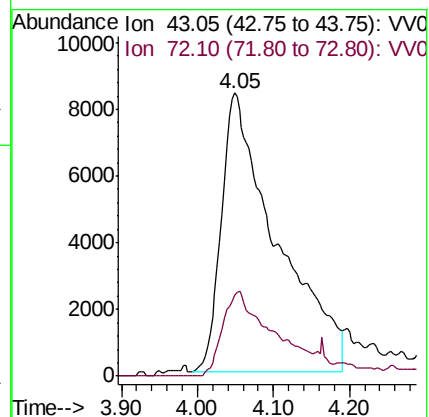
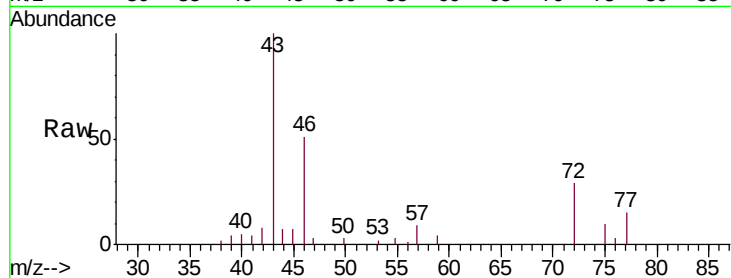
C0AE2

Tgt Ion: 43 Resp: 42457

Ion Ratio Lower Upper

43 100

72 27.3 14.8 44.4



#27

1,2-Dichloroethane

Concen: 0.420 ug/L

RT: 5.14 min Scan# 1261

Delta R.T. -0.03 min

Lab File: VV012289.D

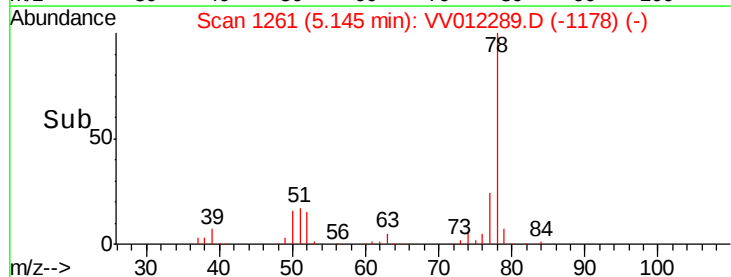
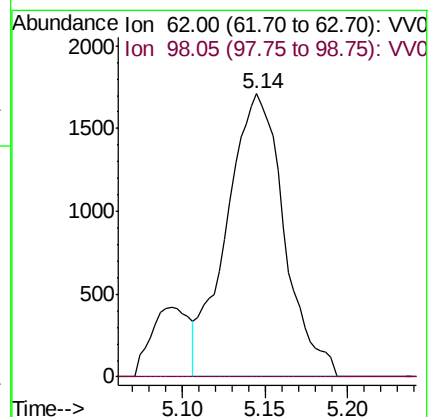
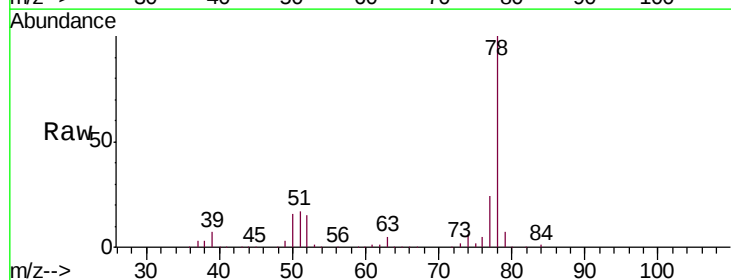
Acq: 19 Aug 2019 20:51

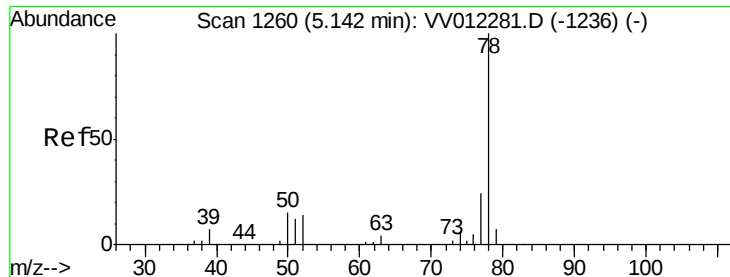
Tgt Ion: 62 Resp: 4124

Ion Ratio Lower Upper

62 100

98 0.0 7.6 11.4#





#33

Benzene

Concen: 11.041 ug/L

RT: 5.14 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VV012289.D

Acq: 19 Aug 2019 20:51

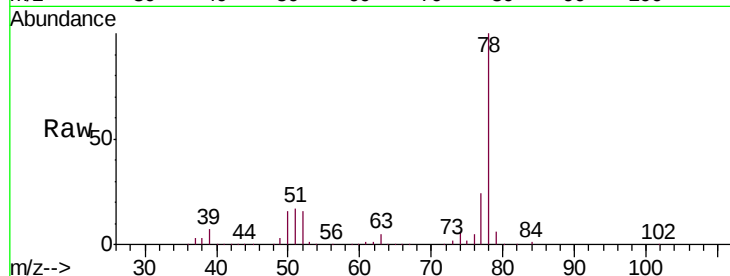
Instrument :

MSVOA_V

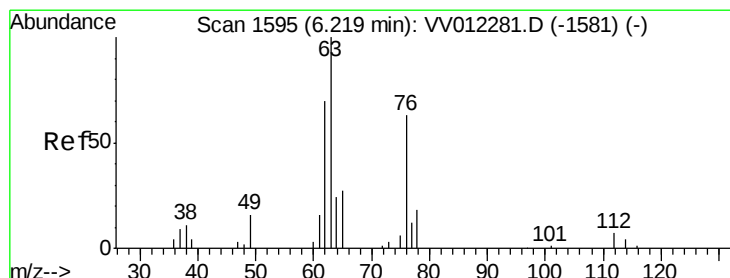
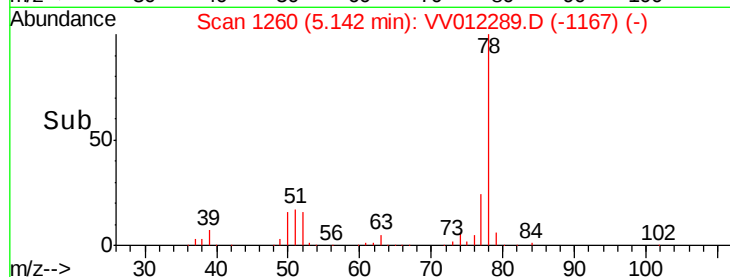
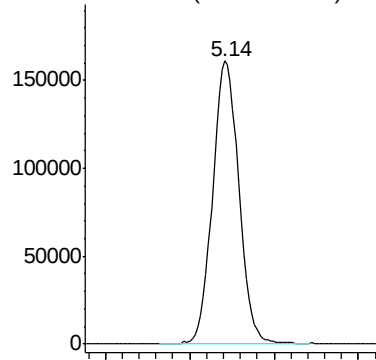
ClientSampled :

C0AE2

Tgt Ion: 78 Resp: 351629



Abundance Ion 78.10 (77.80 to 78.80): VV0



#37

1,2-Dichloropropane

Concen: 0.665 ug/L

RT: 6.12 min Scan# 1564

Delta R.T. -0.10 min

Lab File: VV012289.D

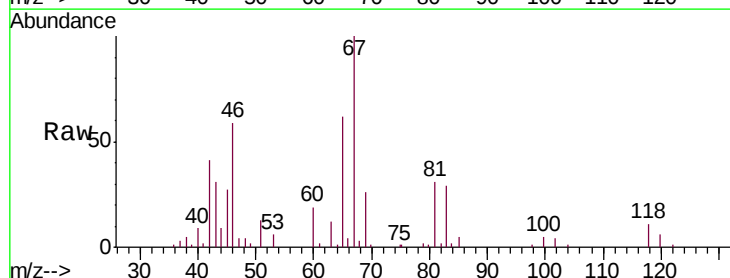
Acq: 19 Aug 2019 20:51

Tgt Ion: 63 Resp: 4954

Ion Ratio Lower Upper

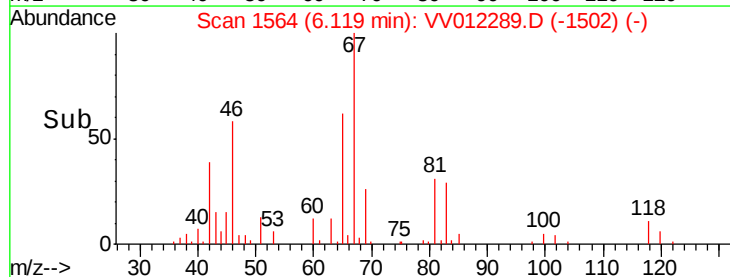
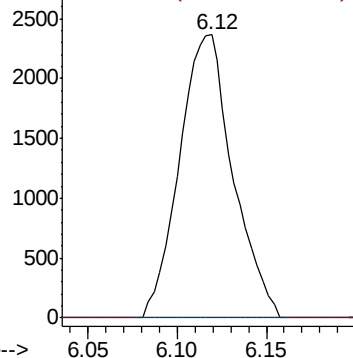
63 100

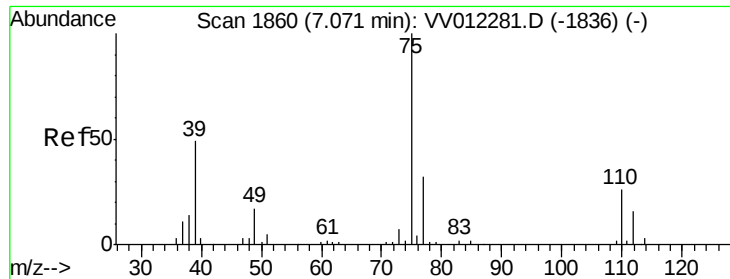
112 0.0 5.1 7.7#



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 112.10 (111.80 to 112.80): V

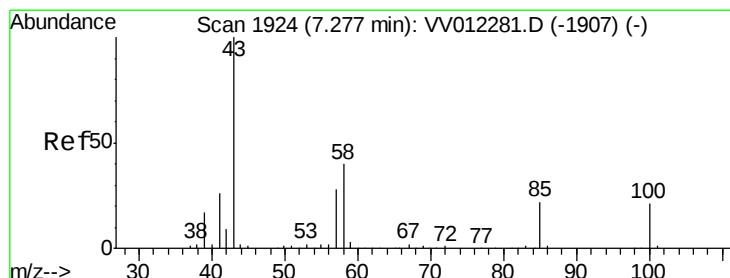
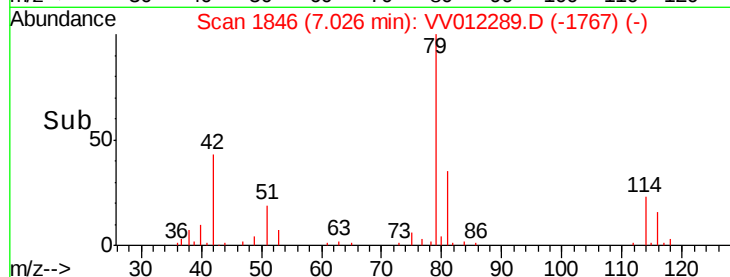
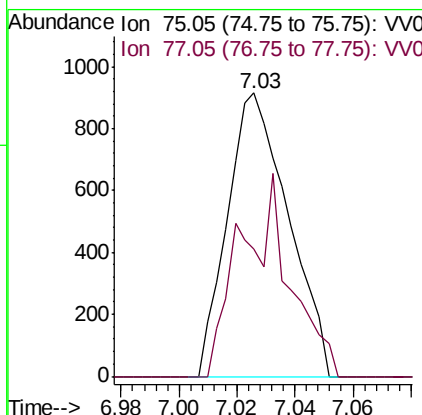
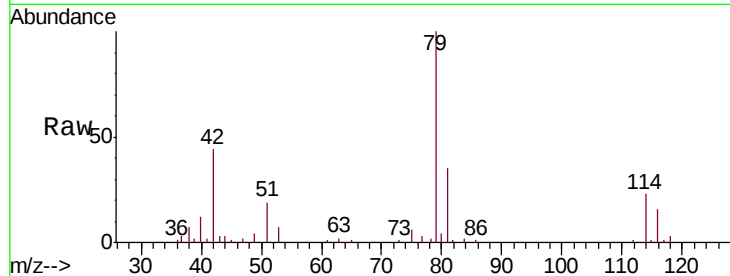




#39
 cis-1,3-Dichloropropene
 Concen: 0.113 ug/L
 RT: 7.03 min Scan# 1846
 Delta R.T. -0.05 min
 Lab File: VV012289.D
 Acq: 19 Aug 2019 20:51

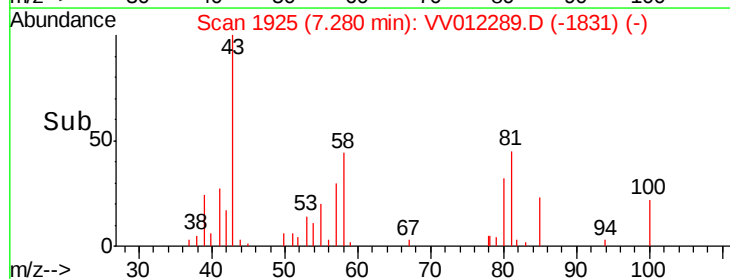
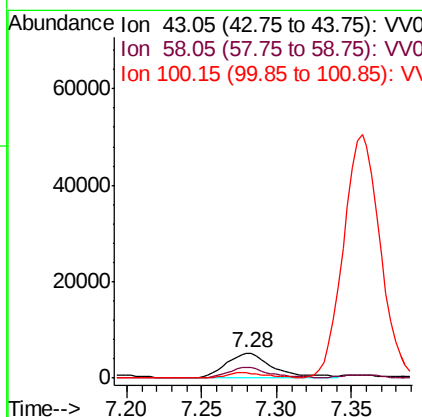
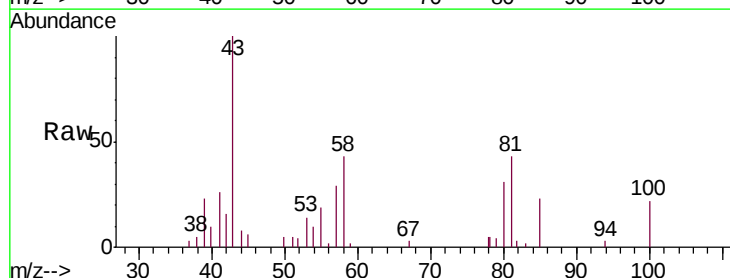
Instrument :
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 C0AE2

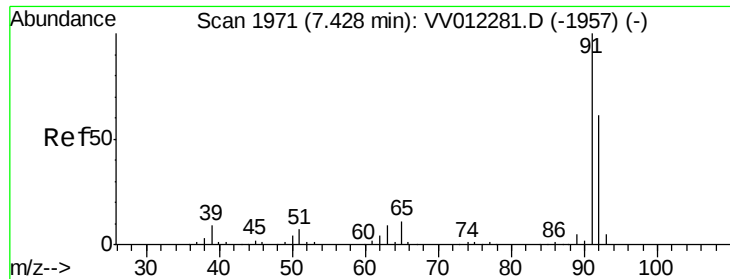
Tgt Ion: 75 Resp: 1333
 Ion Ratio Lower Upper
 75 100
 77 44.9 21.5 39.9#



#40
 4-Methyl-2-pentanone
 Concen: 2.764 ug/L
 RT: 7.28 min Scan# 1925
 Delta R.T. 0.00 min
 Lab File: VV012289.D
 Acq: 19 Aug 2019 20:51

Tgt Ion: 43 Resp: 10816
 Ion Ratio Lower Upper
 43 100
 58 39.7 32.1 48.1
 100 0.0 15.2 22.8#





#42

Toluene

Concen: 10.125 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV012289.D

Acq: 19 Aug 2019 20:51

Instrument :

MSVOA_V

ClientSampleId :

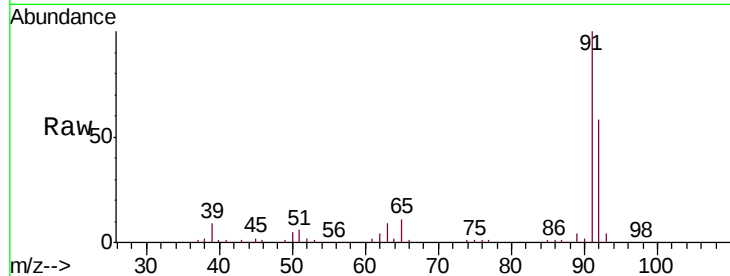
C0AE2

Tgt Ion: 91 Resp: 356900

Ion Ratio Lower Upper

91 100

92 58.3 41.6 77.3



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

250000

200000

150000

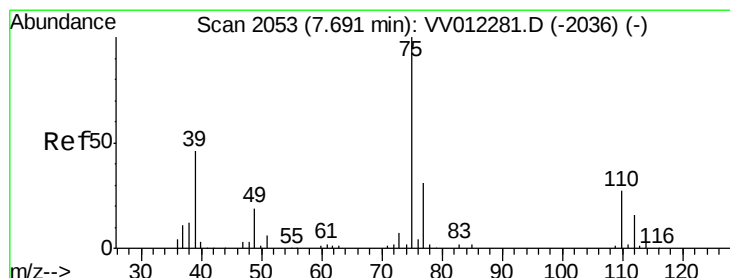
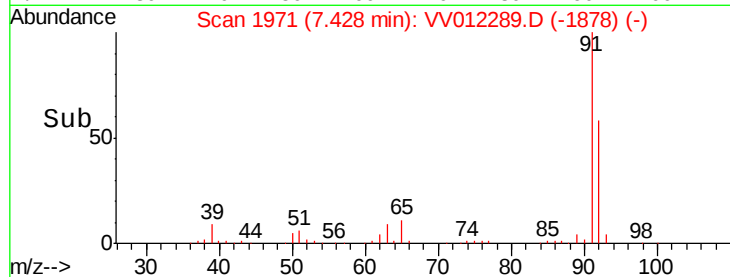
100000

50000

0

7.35 7.40 7.45 7.50 7.55

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.101 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. -0.03 min

Lab File: VV012289.D

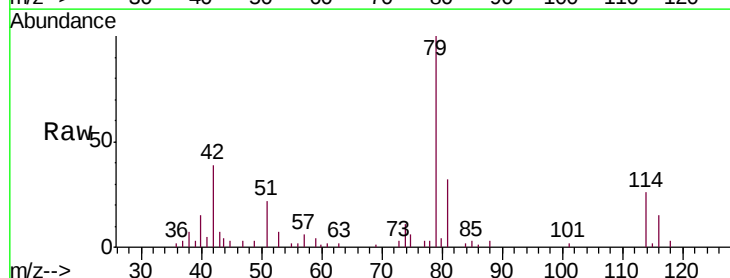
Acq: 19 Aug 2019 20:51

Tgt Ion: 75 Resp: 958

Ion Ratio Lower Upper

75 100

77 43.7 22.1 41.1#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

600

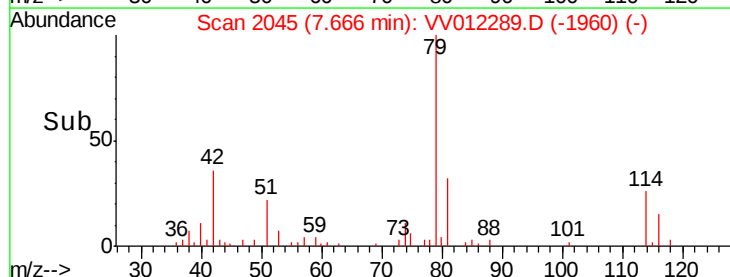
400

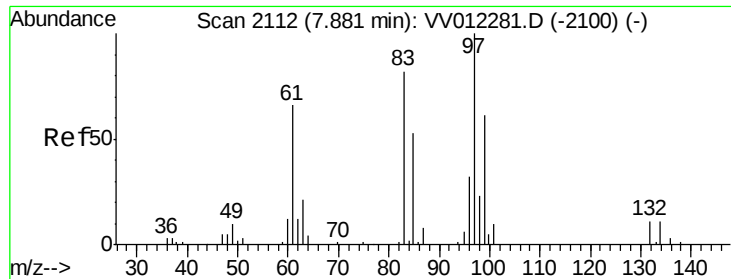
200

0

7.65 7.67 7.70

Time-->

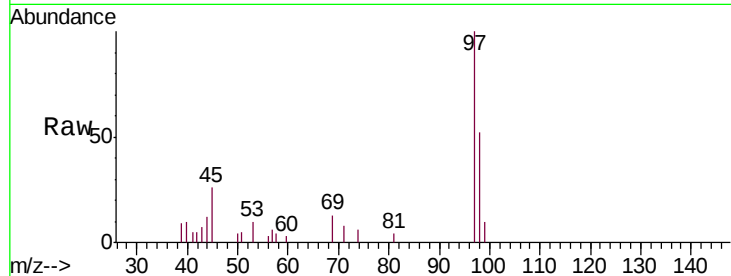




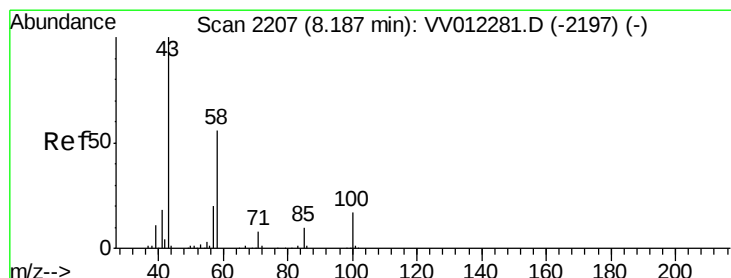
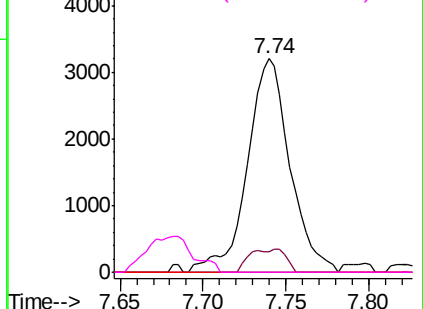
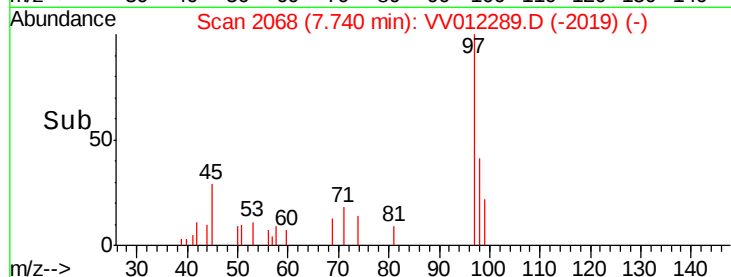
#45
 1,1,2-Trichloroethane
 Concen: 0.998 ug/L
 RT: 7.74 min Scan# 2068
 Delta R.T. -0.14 min
 Lab File: VV012289.D
 Acq: 19 Aug 2019 20:51

Instrument :
 MSVOA_V
 ClientSampleID :
 C0AE2

Tgt Ion:	97	Resp:	5708
Ion	Ratio	Lower	Upper
97	100		
99	9.8	44.7	83.1#
83	0.0	56.8	105.6#
85	0.0	34.5	64.1#

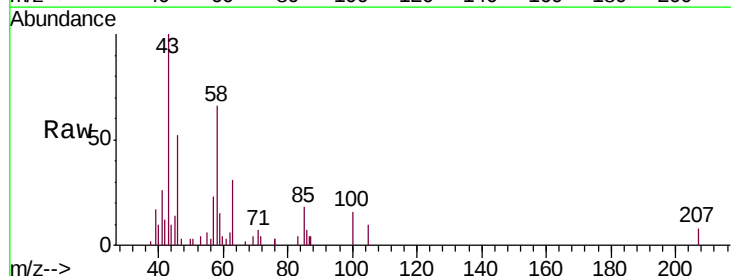


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

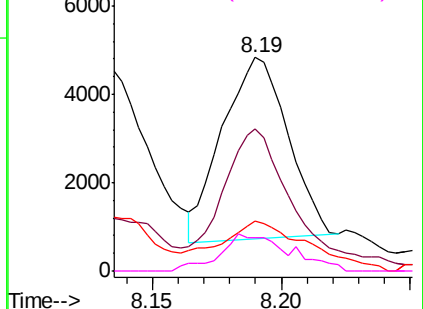
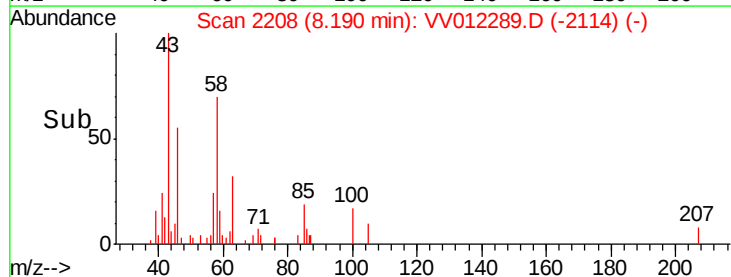


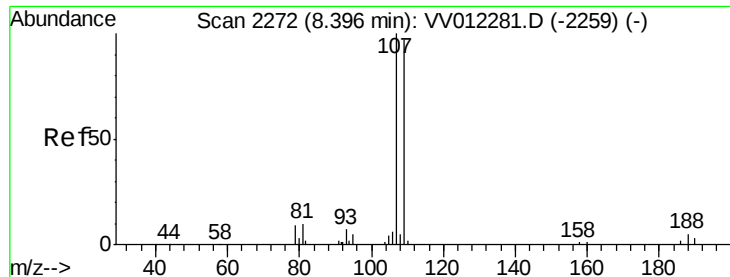
#48
 2-Hexanone
 Concen: 2.583 ug/L
 RT: 8.19 min Scan# 2208
 Delta R.T. 0.00 min
 Lab File: VV012289.D
 Acq: 19 Aug 2019 20:51

Tgt Ion:	43	Resp:	7273
Ion	Ratio	Lower	Upper
43	100		
58	87.8	45.4	68.2#
57	37.7	16.8	25.2#
100	21.6	12.2	18.2#



Abundance Ion 43.05 (42.75 to 43.75): VV0
 Ion 58.05 (57.75 to 58.75): VV0
 Ion 57.20 (56.90 to 57.90): VV0
 Ion 100.15 (99.85 to 100.85): VV0





#50

1,2-Dibromoethane

Concen: 0.104 ug/L

RT: 8.41 min Scan# 2278

Delta R.T. 0.02 min

Lab File: VV012289.D

Acq: 19 Aug 2019 20:51

Instrument :

MSVOA_V

ClientSampleId :

C0AE2

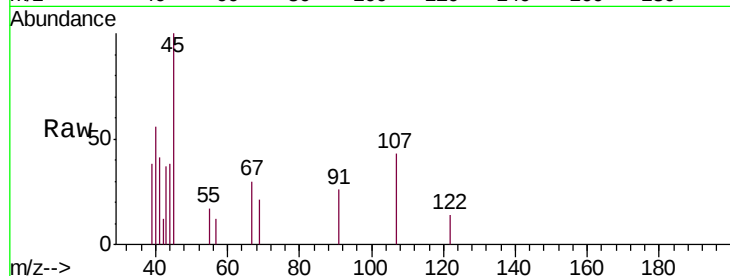
Tgt Ion: 107 Resp: 561

Ion Ratio Lower Upper

107 100

109 0.0 70.0 130.0#

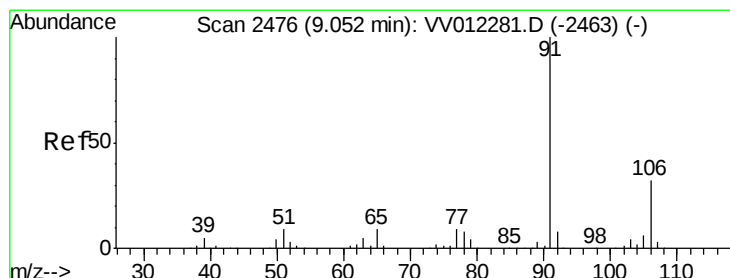
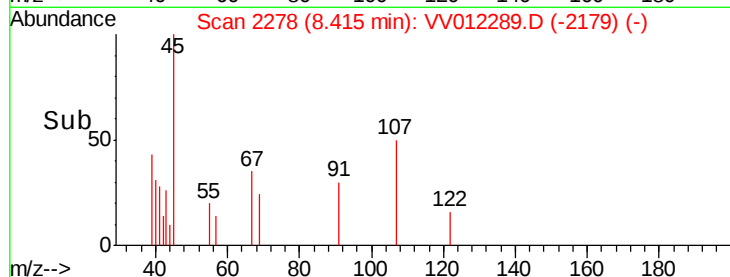
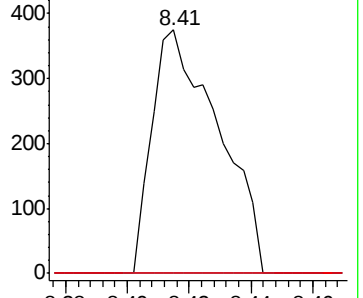
188 0.0 3.7 5.5#



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#52

Ethylbenzene

Concen: 27.444 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012289.D

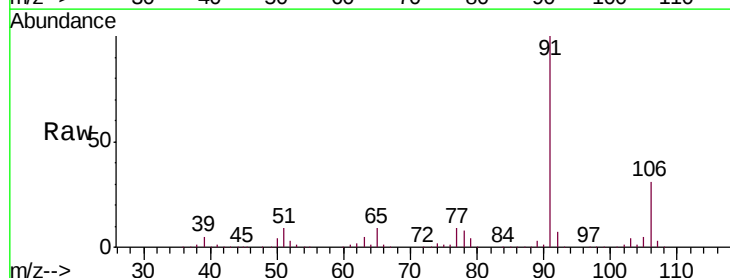
Acq: 19 Aug 2019 20:51

Tgt Ion: 91 Resp: 1082385

Ion Ratio Lower Upper

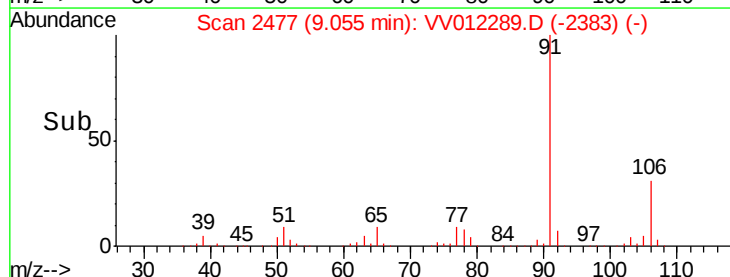
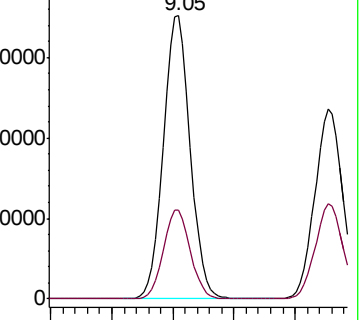
91 100

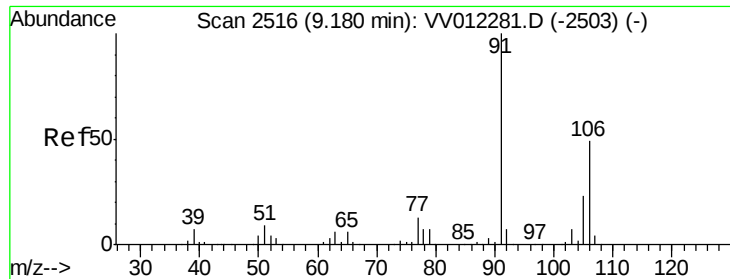
106 31.2 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 106.15 (105.85 to 106.85): V





#53

m,p-xylene

Concen: 24.091 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV012289.D

Acq: 19 Aug 2019 20:51

Instrument :

MSVOA_V

ClientSampled :

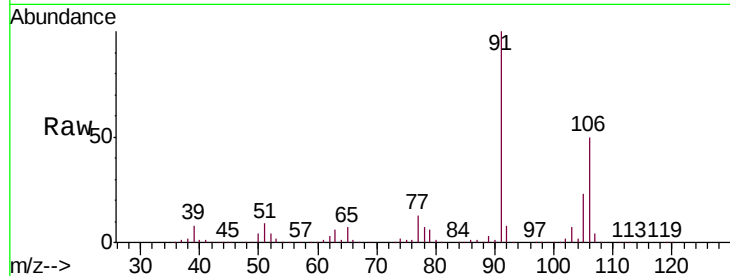
C0AE2

Tgt Ion:106 Resp: 370923

Ion Ratio Lower Upper

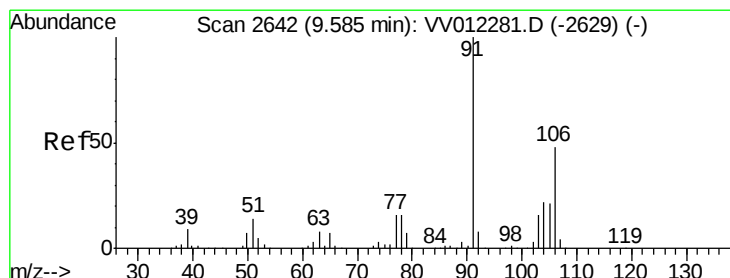
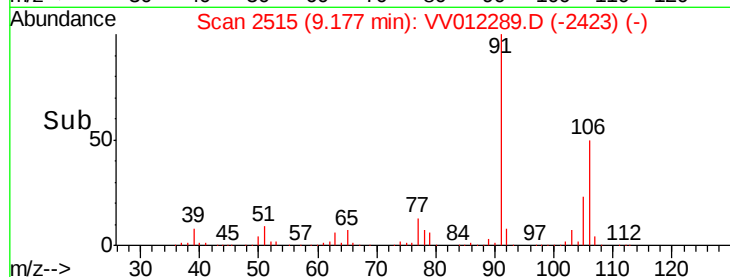
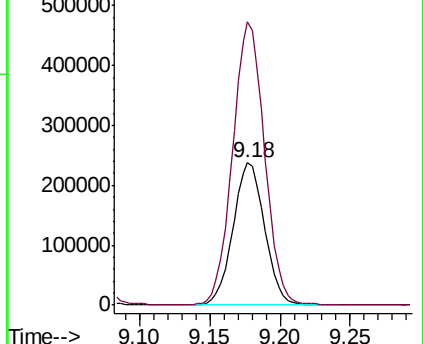
106 100

91 199.2 136.0 252.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#54

o-xylene

Concen: 17.179 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV012289.D

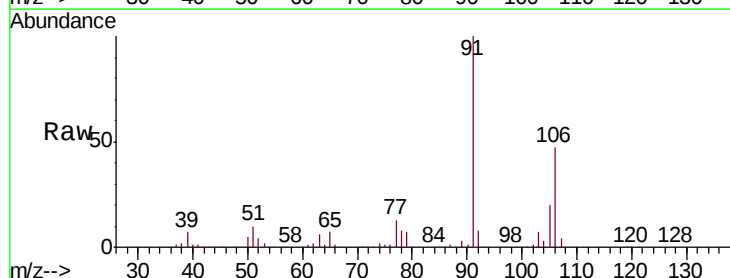
Acq: 19 Aug 2019 20:51

Tgt Ion:106 Resp: 254403

Ion Ratio Lower Upper

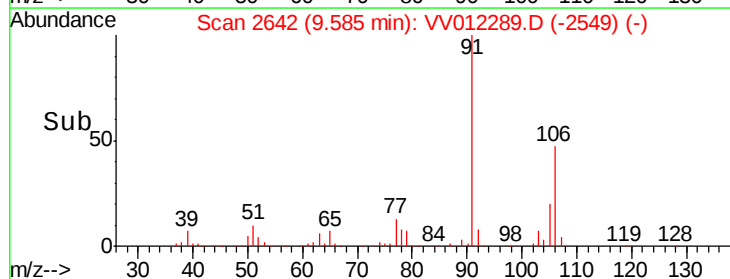
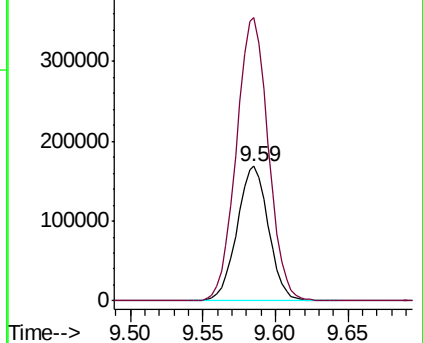
106 100

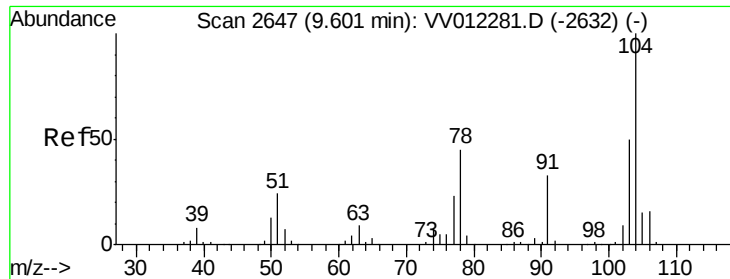
91 210.7 148.7 276.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#55

Styrene

Concen: 1.266 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. -0.00 min

Lab File: VV012289.D

Acq: 19 Aug 2019 20:51

Instrument :

MSVOA_V

ClientSampleId :

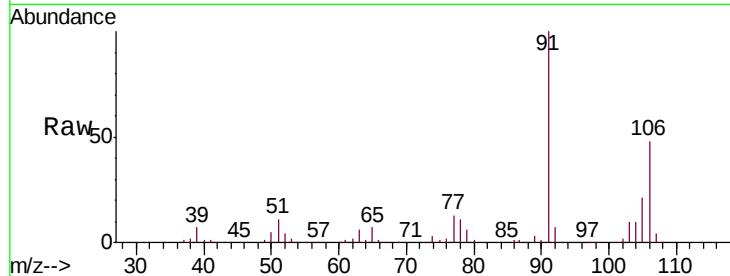
C0AE2

Tgt Ion:104 Resp: 31676

Ion Ratio Lower Upper

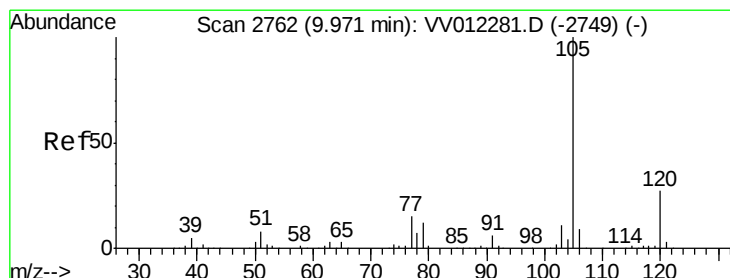
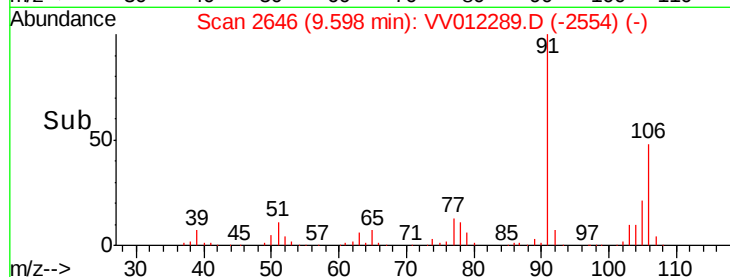
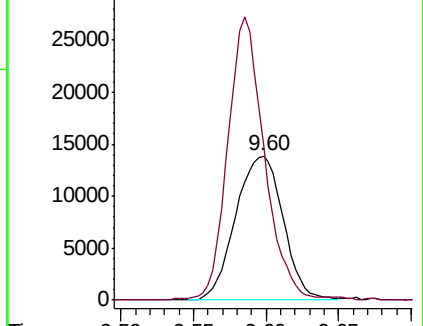
104 100

78 105.7 30.8 57.2#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0



#56

Isopropylbenzene

Concen: 3.644 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV012289.D

Acq: 19 Aug 2019 20:51

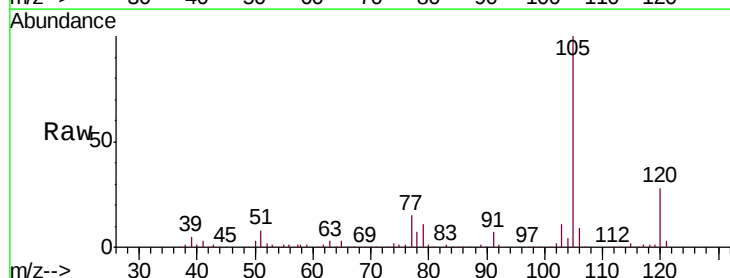
Tgt Ion:105 Resp: 148944

Ion Ratio Lower Upper

105 100

120 27.4 21.4 32.0

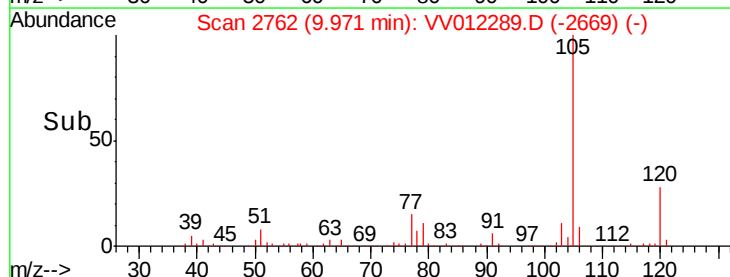
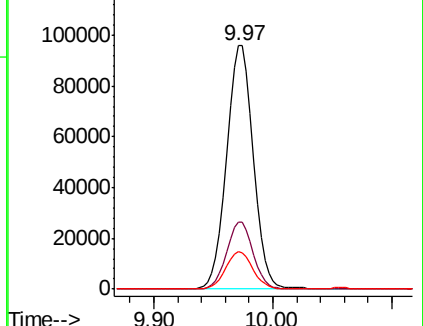
77 15.7 12.2 18.2

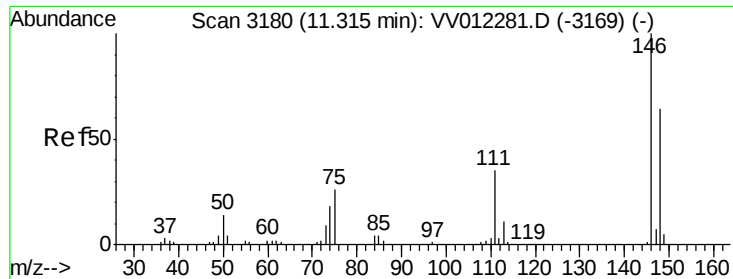


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VV0

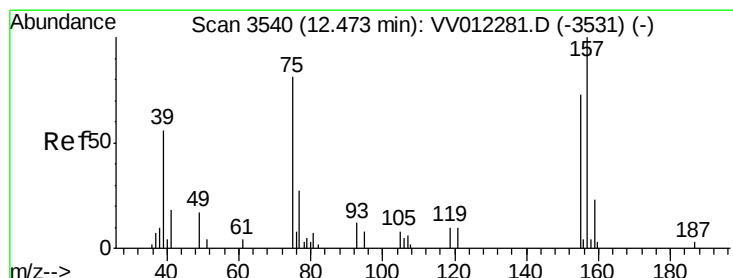
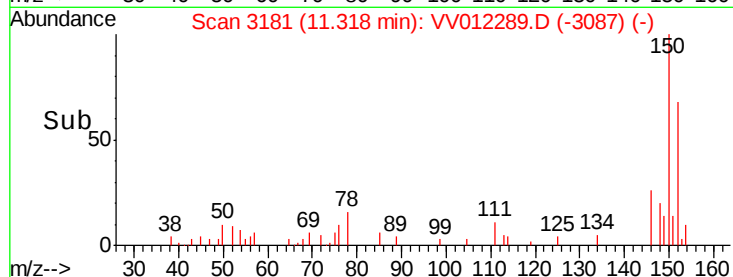
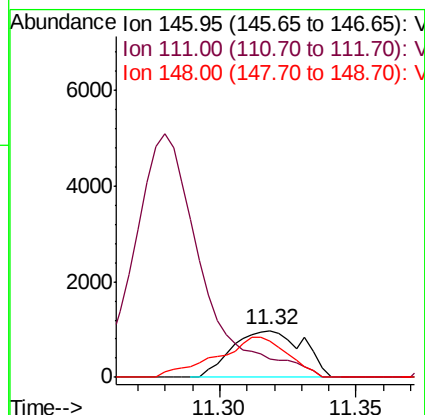
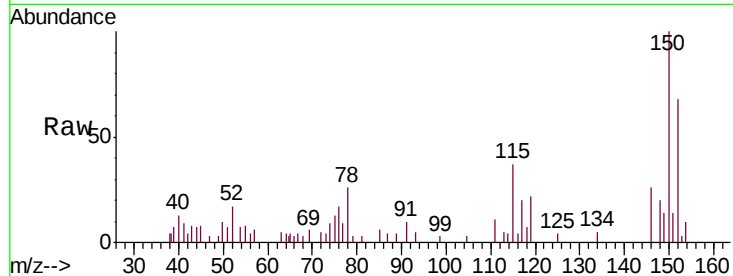




#63
 1,4-Dichlorobenzene
 Concen: 0.076 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV012289.D
 Acq: 19 Aug 2019 20:51

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AE2

Tgt Ion: 146 Resp: 1766
 Ion Ratio Lower Upper
 146 100
 111 40.7 26.2 48.6
 148 77.7 45.3 84.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 22.006 ug/L
 RT: 12.50 min Scan# 3550
 Delta R.T. 0.03 min
 Lab File: VV012289.D
 Acq: 19 Aug 2019 20:51

Tgt Ion: 75 Resp: 24636
 Ion Ratio Lower Upper
 75 100
 155 0.9 68.4 102.6#
 157 0.0 92.6 139.0#

