

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV113018\
 Data File : VV008821.D
 Acq On : 30 Nov 2018 18:56
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 01 03:55:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112918WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Dec 01 03:50:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	149052	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	136948	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	66373	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	48057	4.66	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.20%
7) Chloroethane-d5	1.59	69	33043	4.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.20%
11) 1,1-Dichloroethene-d2	2.14	63	88094	4.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.40%
20) 2-Butanone-d5	3.96	46	120826	52.31	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.62%
24) Chloroform-d	4.41	84	107177	5.26	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.20%
26) 1,2-Dichloroethane-d4	5.09	65	52081	5.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.60%
32) Benzene-d6	5.10	84	219047	5.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.80%
36) 1,2-Dichloropropane-d6	6.12	67	63609	5.06	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.20%
41) Toluene-d8	7.36	98	203539	5.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.40%
43) trans-1,3-Dichloropropene-	7.67	79	22799	5.41	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	108.20%
46) 2-Hexanone-d5	8.14	63	97204	55.44	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.88%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	42427	5.34	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.80%
64) 1,2-Dichlorobenzene-d4	11.68	152	75177	5.50	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	64054	4.857	ug/L	97
3) Chloromethane	1.25	50	46148	4.673	ug/L	99
5) Vinyl chloride	1.32	62	48335	4.920	ug/L	99
6) Bromomethane	1.54	94	21702	3.521	ug/L	97
8) Chloroethane	1.60	64	24151	4.294	ug/L	100
9) Trichlorofluoromethane	1.77	101	77737	5.298	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	41566	4.951	ug/L	99
12) 1,1-Dichloroethene	2.14	96	35723	4.873	ug/L	97
13) Acetone	2.21	43	52910	45.966	ug/L	99
14) Carbon disulfide	2.32	76	101014	4.748	ug/L	99
15) Methyl Acetate	2.47	43	13503	4.383	ug/L	97
16) Methylene chloride	2.54	84	37239	4.505	ug/L	97
17) Methyl tert-butyl Ether	2.81	73	87673	4.857	ug/L	100
18) trans-1,2-Dichloroethene	2.79	96	39499	4.903	ug/L	94
19) 1,1-Dichloroethane	3.23	63	89617	5.006	ug/L	100
21) 2-Butanone	4.05	43	107172	46.447	ug/L	99
22) cis-1,2-Dichloroethene	3.97	96	55438	4.898	ug/L	94

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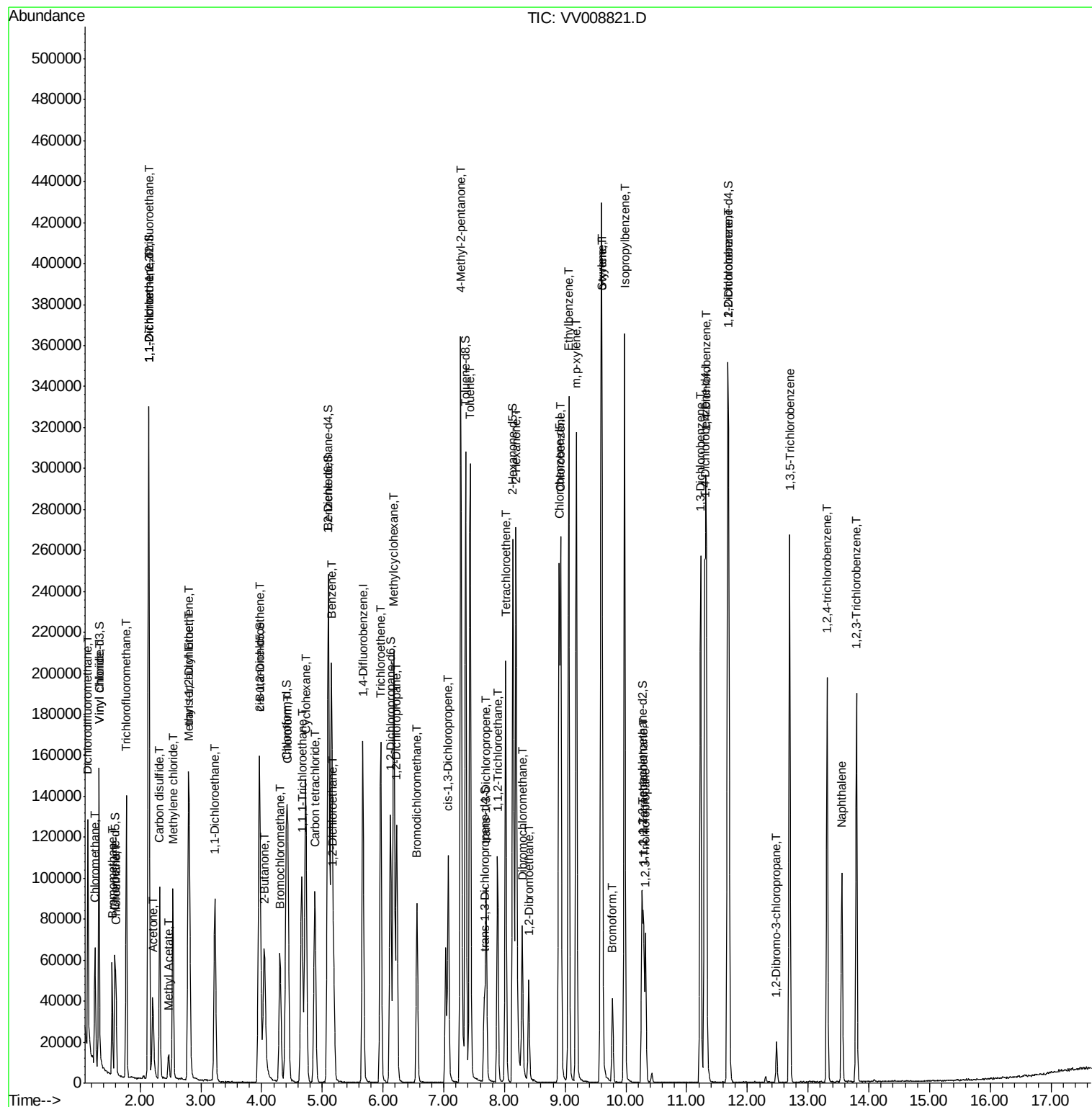
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.31	128	23402	5.040	ug/L	98
25) Chloroform	4.43	83	93364	4.798	ug/L	96
27) 1,2-Dichloroethane	5.19	62	54136	4.842	ug/L	97
29) 1,1,1-Trichloroethane	4.66	97	81071	5.072	ug/L	99
30) Cyclohexane	4.72	56	79517	4.724	ug/L	98
31) Carbon tetrachloride	4.88	117	69595	5.030	ug/L	98
33) Benzene	5.15	78	204241	4.973	ug/L	100
34) Trichloroethene	5.96	95	55576	4.867	ug/L	97
35) Methylcyclohexane	6.18	83	85768	4.737	ug/L	99
37) 1,2-Dichloropropane	6.23	63	47942	4.696	ug/L	99
38) Bromodichloromethane	6.56	83	57019	4.891	ug/L	100
39) cis-1,3-Dichloropropene	7.07	75	64827	4.835	ug/L	98
40) 4-Methyl-2-pentanone	7.28	43	254090	48.091	ug/L	98
42) Toluene	7.43	91	218639	5.086	ug/L	99
44) trans-1,3-Dichloropropene	7.70	75	50760	4.803	ug/L	95
45) 1,1,2-Trichloroethane	7.89	97	33390	4.930	ug/L	98
47) Tetrachloroethene	8.02	164	45540	5.157	ug/L	99
48) 2-Hexanone	8.19	43	178147	48.028	ug/L	98
49) Dibromochloromethane	8.29	129	36993	5.016	ug/L	99
50) 1,2-Dibromoethane	8.40	107	32367	5.091	ug/L	99
51) Chlorobenzene	8.93	112	141048	4.985	ug/L	99
52) Ethylbenzene	9.06	91	234361	5.039	ug/L	100
53) m,p-xylene	9.18	106	88005	5.045	ug/L	100
54) o-xylene	9.59	106	86999	5.170	ug/L	96
55) Styrene	9.60	104	146563	5.238	ug/L	99
56) Isopropylbenzene	9.98	105	231718	5.055	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	37119	5.139	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	28259	4.824	ug/L	99
61) Bromoform	9.78	173	18400	5.113	ug/L	97
62) 1,3-Dichlorobenzene	11.23	146	108460	4.965	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	109530	5.068	ug/L	96
65) 1,2-Dichlorobenzene	11.69	146	103168	5.006	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	4949	4.876	ug/L	92
67) 1,3,5-Trichlorobenzene	12.69	180	82714	5.159	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	61356	5.188	ug/L	97
69) Naphthalene	13.56	128	83932	4.853	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	58456	5.298	ug/L	97

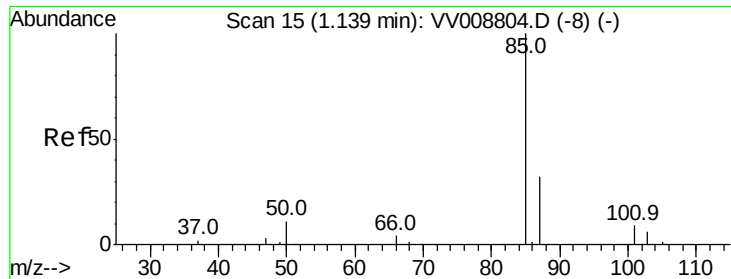
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.857 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

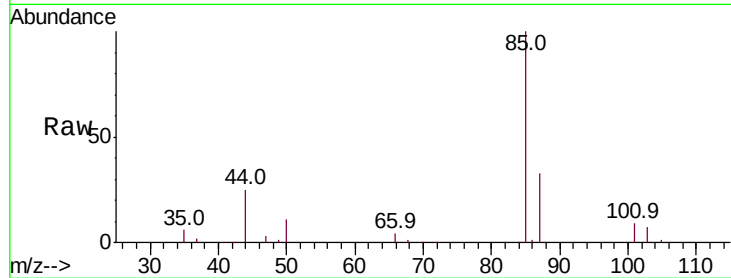
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 64054

Ion Ratio Lower Upper

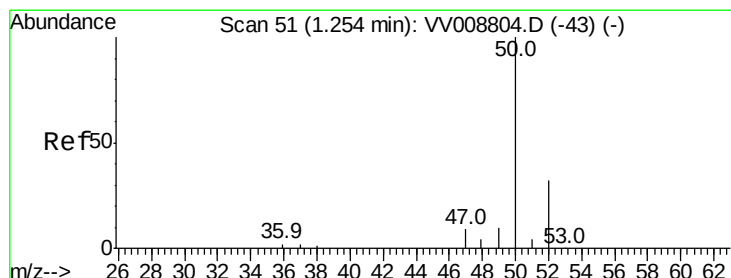
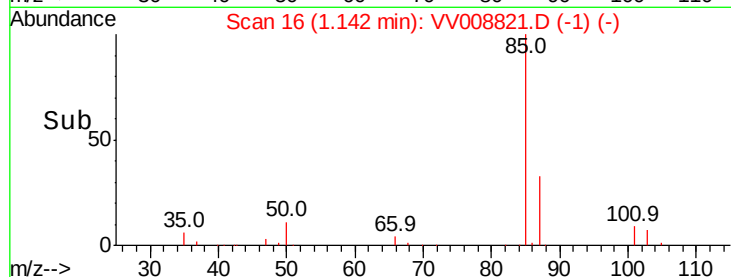
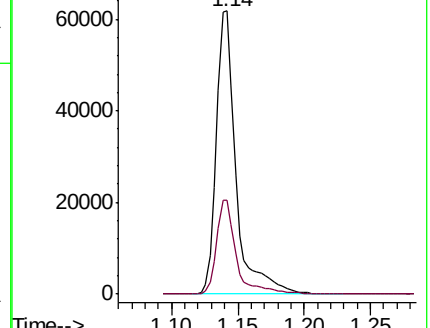
85 100

87 33.2 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VV008804.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV008804.D (-8) (-)



#3

Chloromethane

Concen: 4.673 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV008821.D

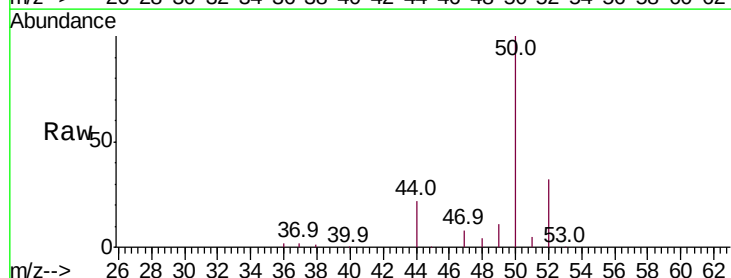
Acq: 30 Nov 2018 18:56

Tgt Ion: 50 Resp: 46148

Ion Ratio Lower Upper

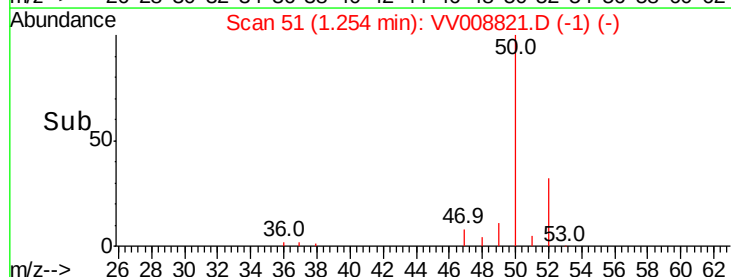
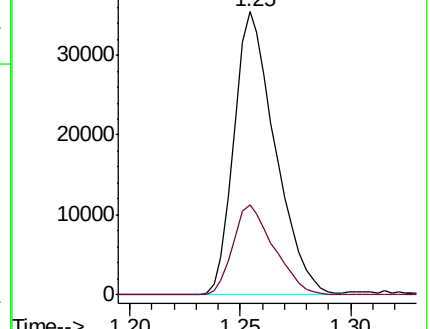
50 100

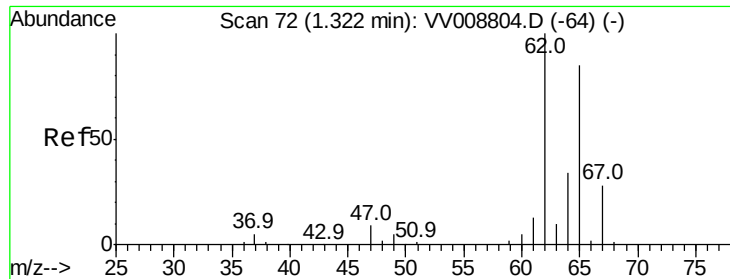
52 31.8 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VV008804.D (-43) (-)

Ion 52.05 (51.75 to 52.75): VV008804.D (-43) (-)





#5

Vinyl chloride

Concen: 4.920 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

Instrument :

MSVOA_V

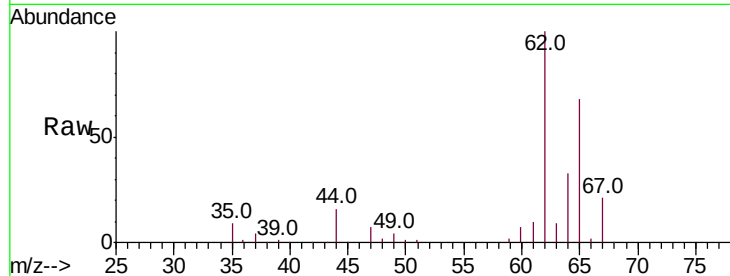
ClientSampled :

Tot Ion: 62 Resp: 48335

Ion Ratio Lower Upper

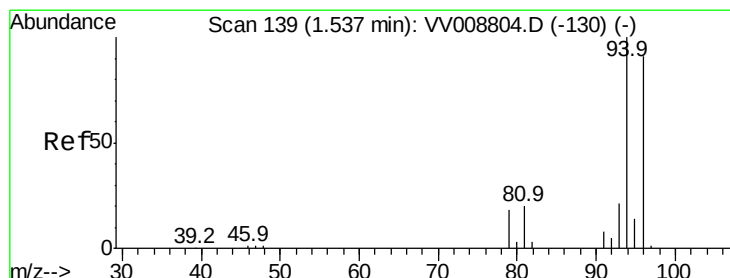
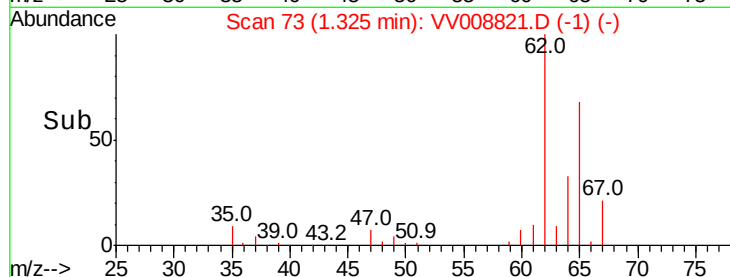
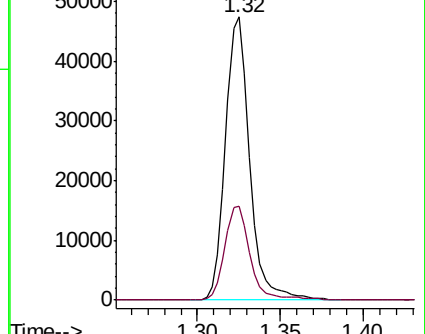
62 100

64 33.2 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV008804.D (-64) (-)

Ion 64.10 (63.80 to 64.80): VV008804.D (-64) (-)



#6

Bromomethane

Concen: 3.521 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV008821.D

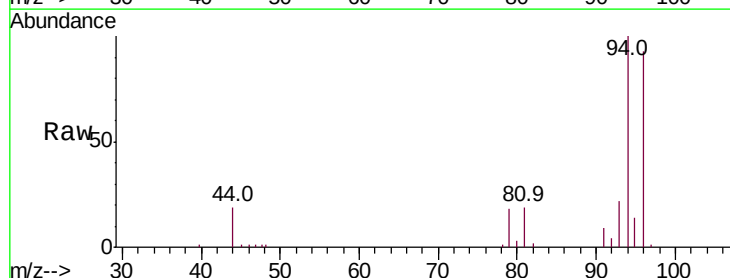
Acq: 30 Nov 2018 18:56

Tgt Ion: 94 Resp: 21702

Ion Ratio Lower Upper

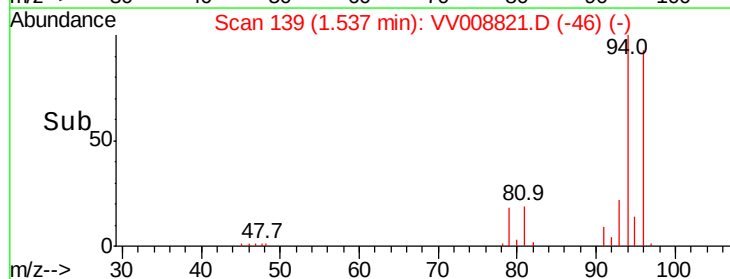
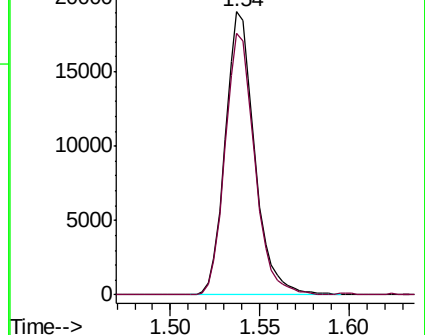
94 100

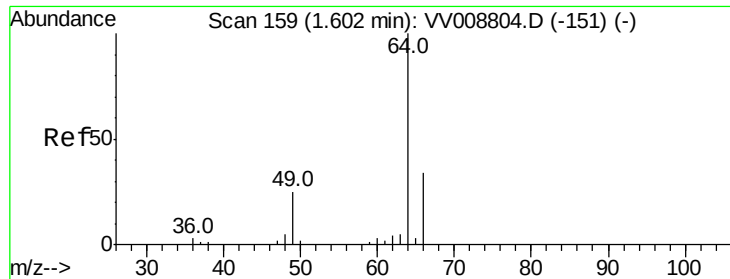
96 92.5 67.0 124.4



Abundance Ion 94.00 (93.70 to 94.70): VV008804.D (-130) (-)

Ion 96.00 (95.70 to 96.70): VV008804.D (-130) (-)





#8

Chloroethane

Concen: 4.294 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

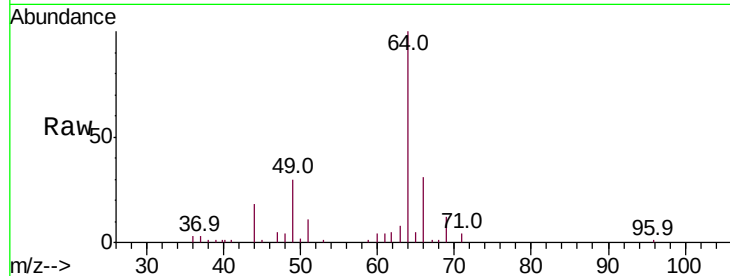
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 24151

Ion Ratio Lower Upper

64 100

66 31.3 21.8 40.6



Abundance Ion 64.10 (63.80 to 64.80): VV008804.D (-151) (-)

Ion 66.05 (65.75 to 66.75): VV008821.D (-66) (-)

25000

20000

15000

10000

5000

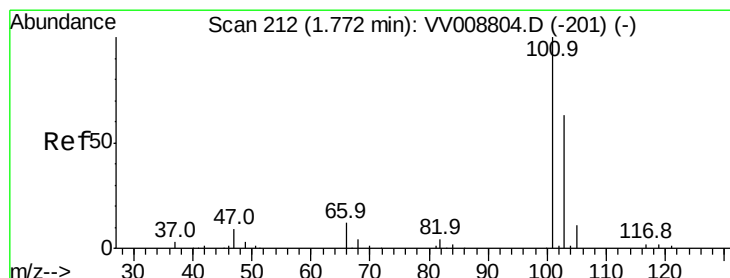
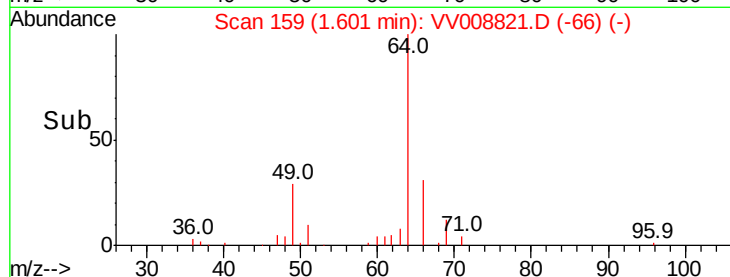
0

1.55

1.60

1.65

Time-->



#9

Trichlorofluoromethane

Concen: 5.298 ug/L

RT: 1.77 min Scan# 212

Delta R.T. -0.00 min

Lab File: VV008821.D

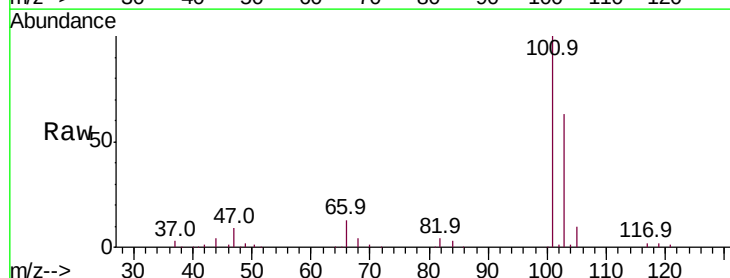
Acq: 30 Nov 2018 18:56

Tgt Ion:101 Resp: 77737

Ion Ratio Lower Upper

101 100

103 65.1 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): VV008804.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV008821.D (-119) (-)

60000

40000

20000

0

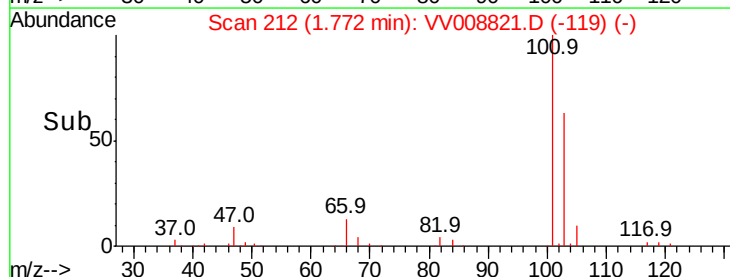
1.70

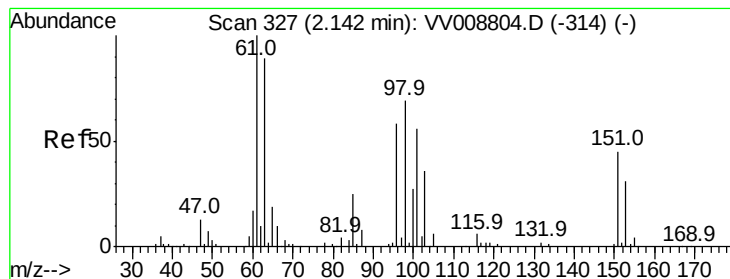
1.75

1.80

1.85

Time-->





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 4.951 ug/L

RT: 2.14 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

Instrument :

MSVOA_V

ClientSampleId :

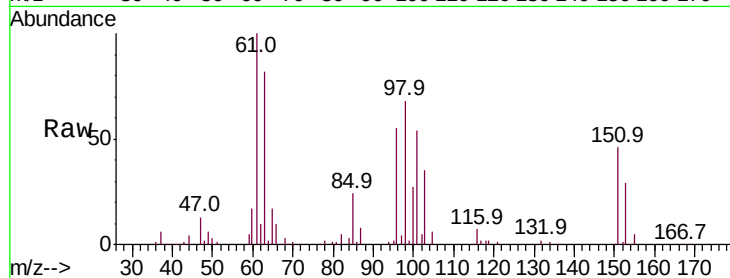
Tot Ion:101 Resp: 41566

Ion Ratio Lower Upper

101 100

85 43.8 33.1 49.7

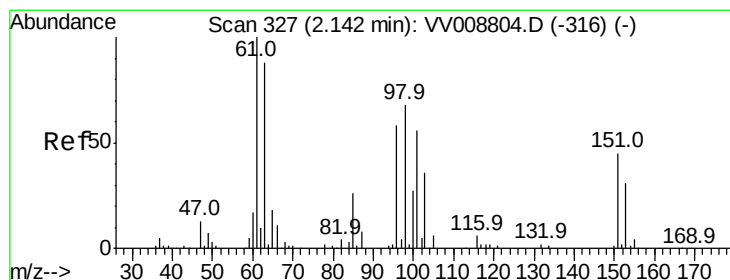
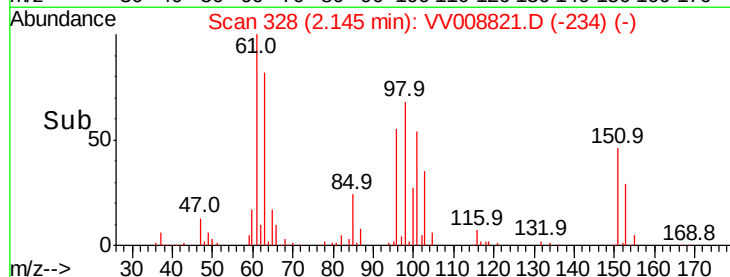
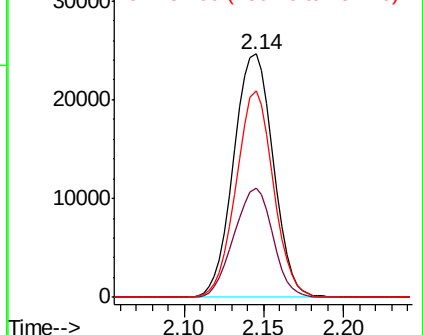
151 79.8 63.8 95.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.873 ug/L

RT: 2.14 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

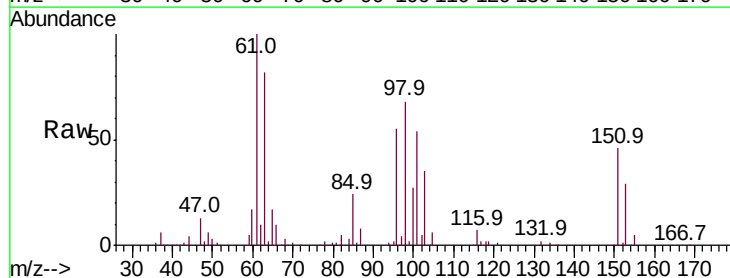
Tgt Ion: 96 Resp: 35723

Ion Ratio Lower Upper

96 100

61 181.6 124.3 230.8

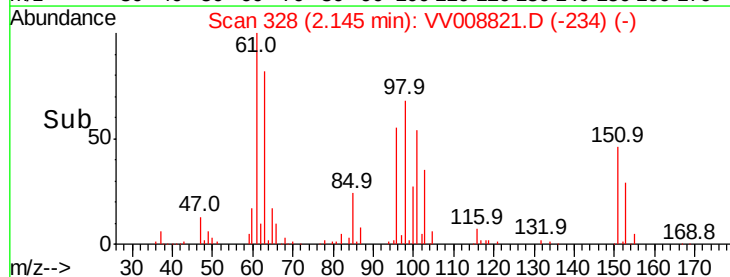
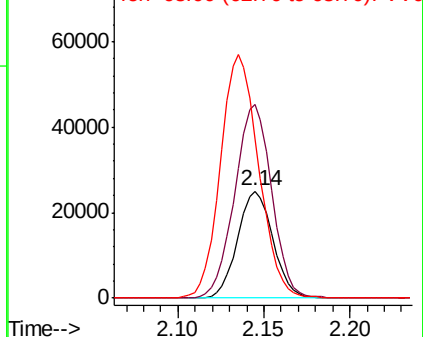
63 149.5 102.6 190.5

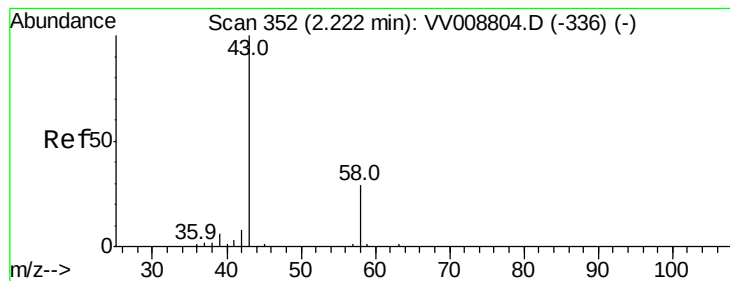


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 45.966 ug/L

RT: 2.21 min Scan# 348

Delta R.T. -0.01 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

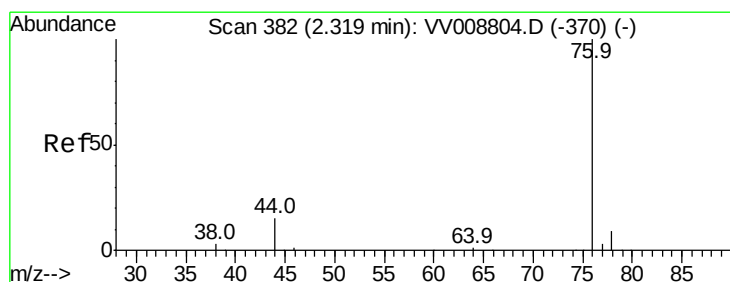
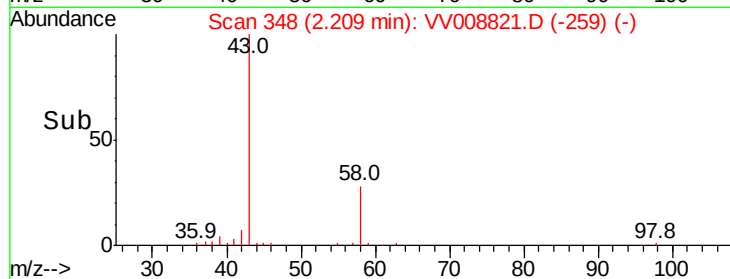
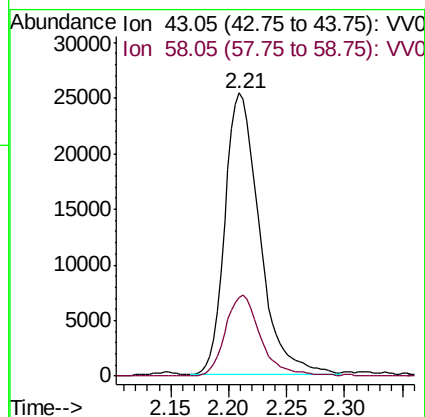
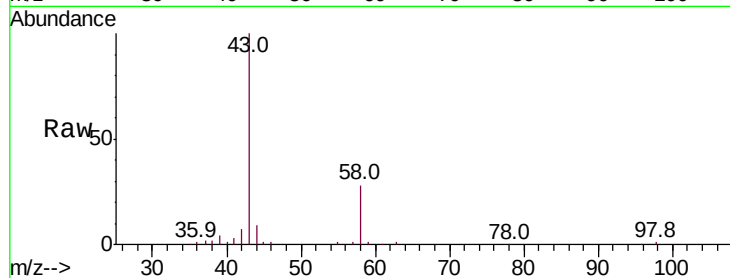
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 52910

Ion Ratio Lower Upper

43 100

58 29.2 0.0 59.8



#14

Carbon disulfide

Concen: 4.748 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV008821.D

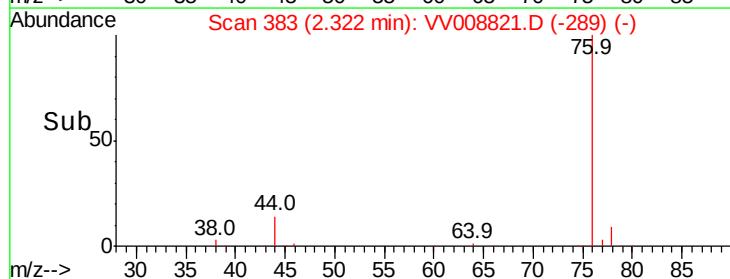
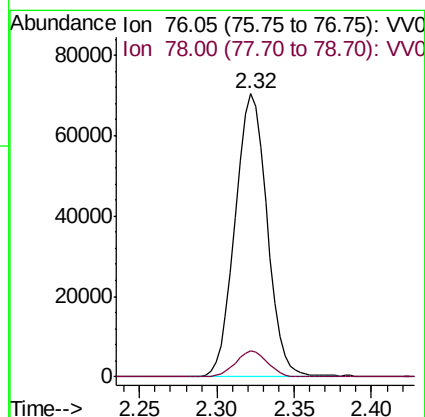
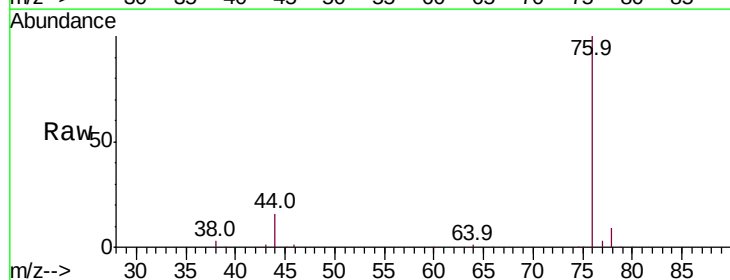
Acq: 30 Nov 2018 18:56

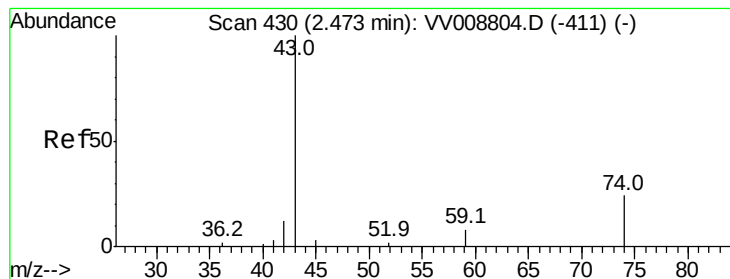
Tgt Ion: 76 Resp: 101014

Ion Ratio Lower Upper

76 100

78 9.1 7.5 11.3





#15

Methyl Acetate

Concen: 4.383 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

Instrument :

MSVOA_V

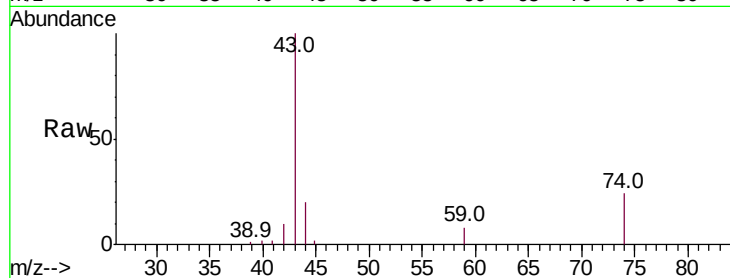
ClientSampled :

Tot Ion: 43 Resp: 13503

Ion Ratio Lower Upper

43 100

74 26.3 20.0 30.0



Abundance Ion 43.05 (42.75 to 43.75): VV008804.D (-411) (-)

Ion 74.05 (73.75 to 74.75): VV008804.D (-411) (-)

2.47

8000

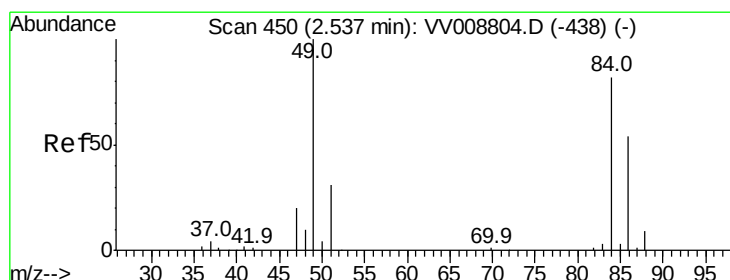
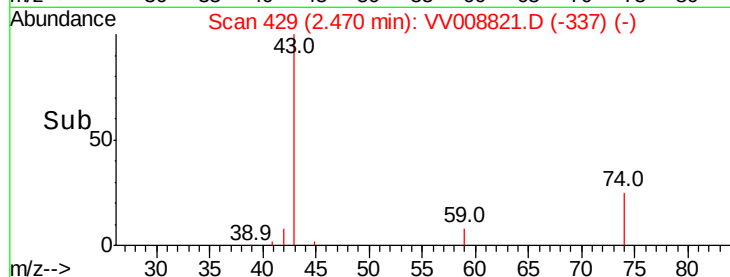
6000

4000

2000

0

Time-->



#16

Methylene chloride

Concen: 4.505 ug/L

RT: 2.54 min Scan# 451

Delta R.T. 0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

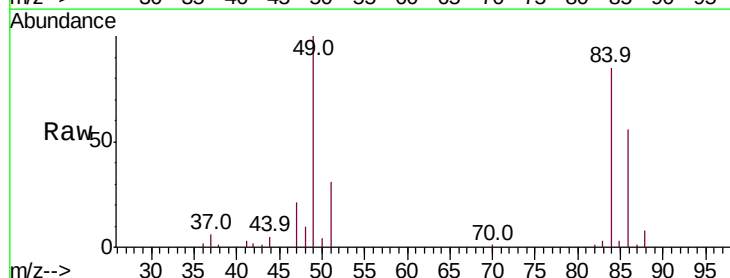
Tgt Ion: 84 Resp: 37239

Ion Ratio Lower Upper

84 100

86 65.6 45.8 85.2

49 117.1 85.9 159.5



Abundance Ion 84.05 (83.75 to 84.75): VV008804.D (-438) (-)

Ion 86.00 (85.70 to 86.70): VV008804.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV008804.D (-438) (-)

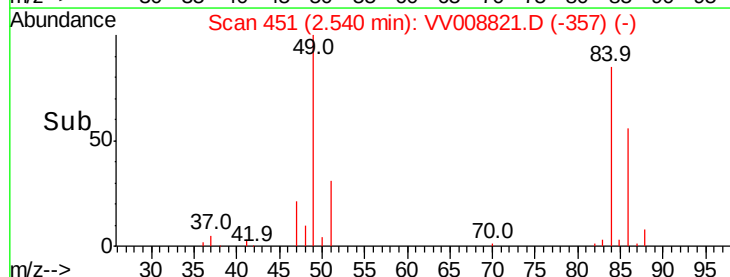
30000

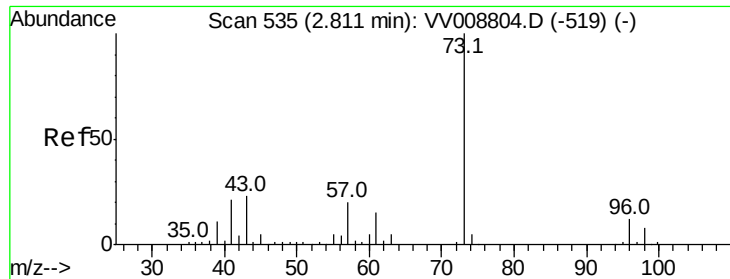
20000

10000

0

Time-->

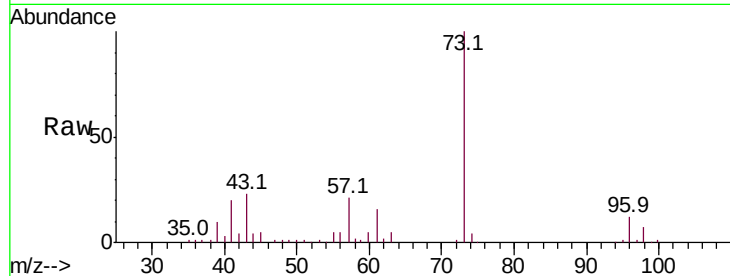




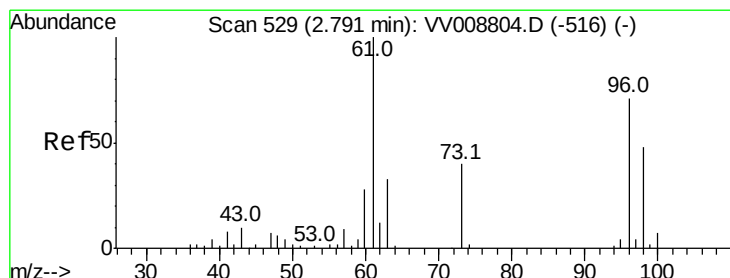
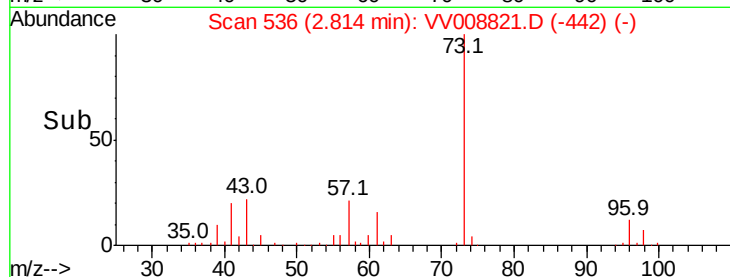
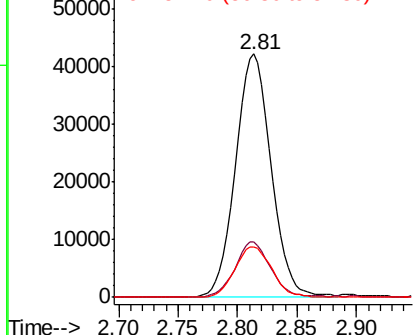
#17
Methyl tert-butyl Ether
Concen: 4.857 ug/L
RT: 2.81 min Scan# 536
Delta R.T. 0.00 min
Lab File: VV008821.D
Acq: 30 Nov 2018 18:56

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 73 Resp: 87673
Ion Ratio Lower Upper
73 100
43 22.5 18.0 27.0
57 21.5 17.2 25.8

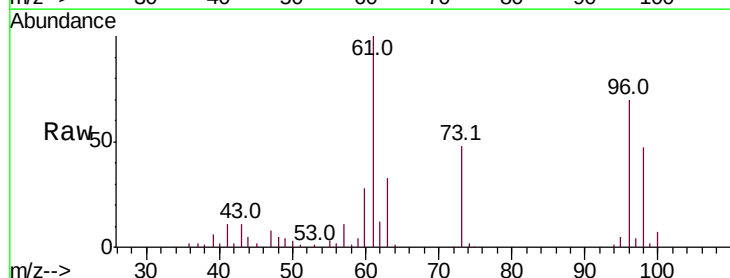


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

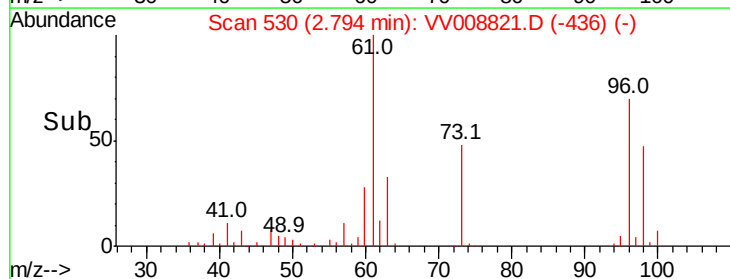
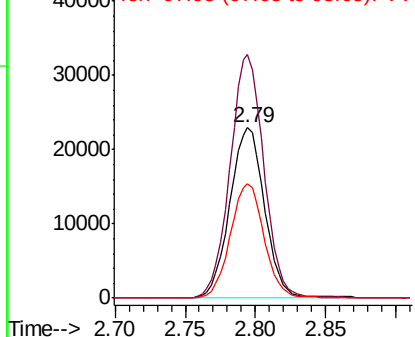


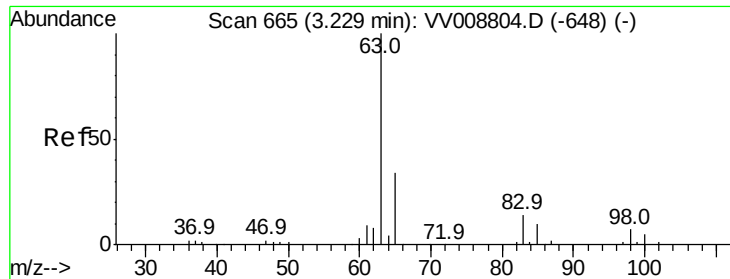
#18
trans-1,2-Dichloroethene
Concen: 4.903 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV008821.D
Acq: 30 Nov 2018 18:56

Tgt Ion: 96 Resp: 39499
Ion Ratio Lower Upper
96 100
61 142.9 95.8 177.8
98 67.5 43.3 80.3



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

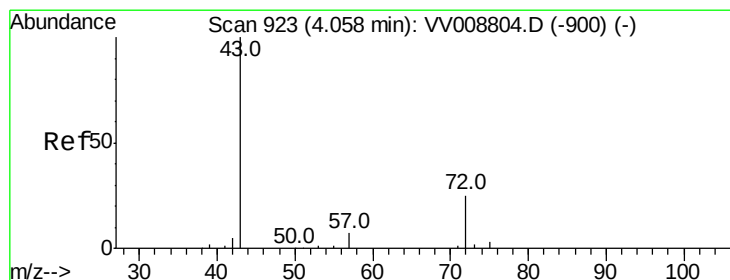
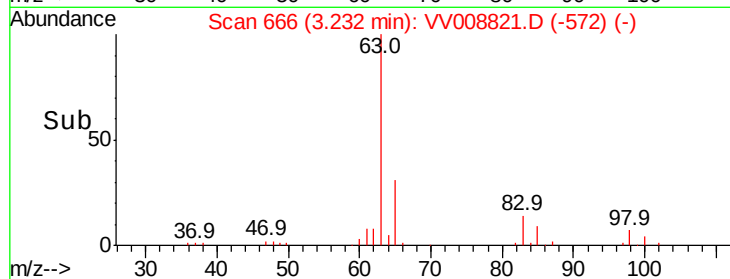
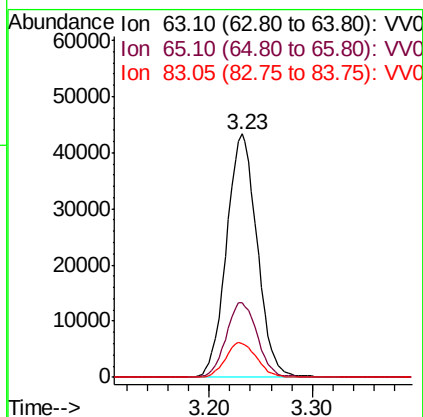
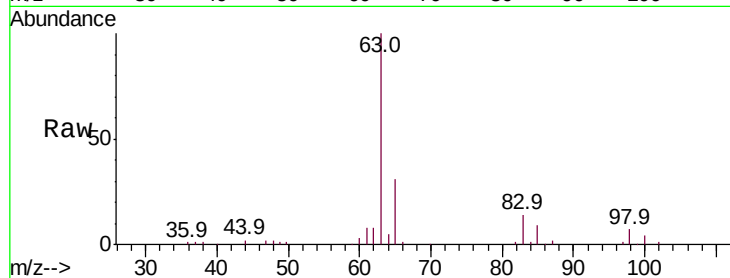




#19
 1,1-Dichloroethane
 Concen: 5.006 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

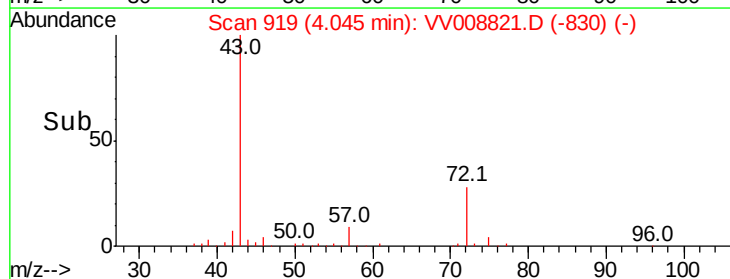
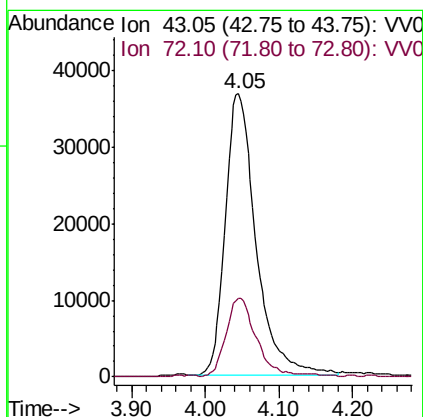
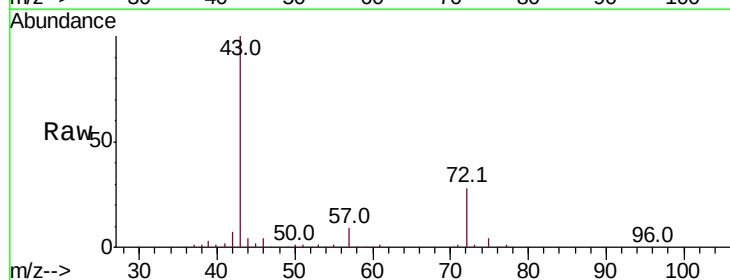
Instrument :
 MSVOA_V
 ClientSampled :

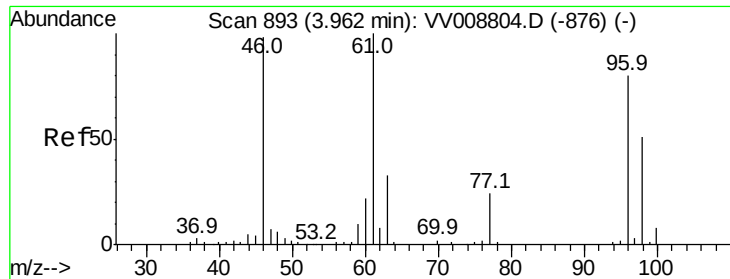
Tot Ion: 63 Resp: 89617
 Ion Ratio Lower Upper
 63 100
 65 30.6 21.3 39.6
 83 14.1 9.9 18.5



#21
 2-Butanone
 Concen: 46.447 ug/L
 RT: 4.05 min Scan# 919
 Delta R.T. -0.01 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

Tgt Ion: 43 Resp: 107172
 Ion Ratio Lower Upper
 43 100
 72 27.5 13.6 40.8



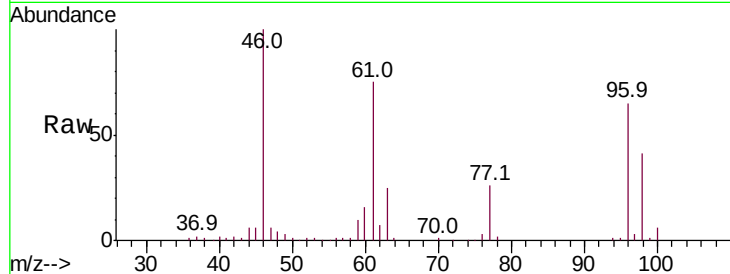


#22

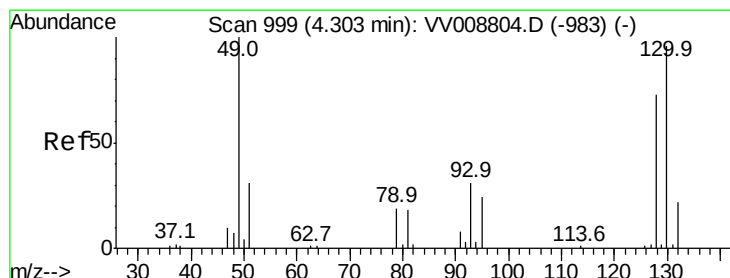
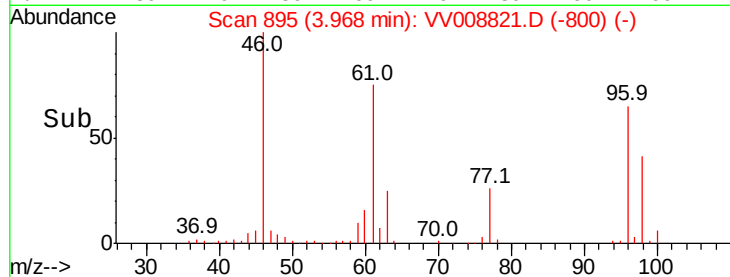
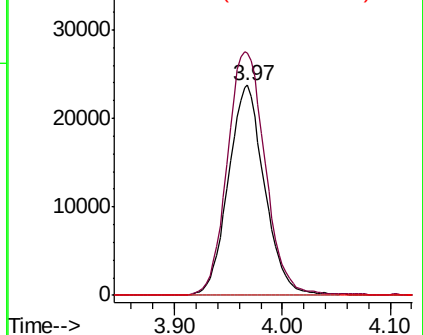
cis-1,2-Dichloroethene
 Concen: 4.898 ug/L
 RT: 3.97 min Scan# 895
 Delta R.T. 0.01 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 96 Resp: 55438
 Ion Ratio Lower Upper
 96 100
 61 115.4 85.9 159.5
 68 0.0 0.0 0.0



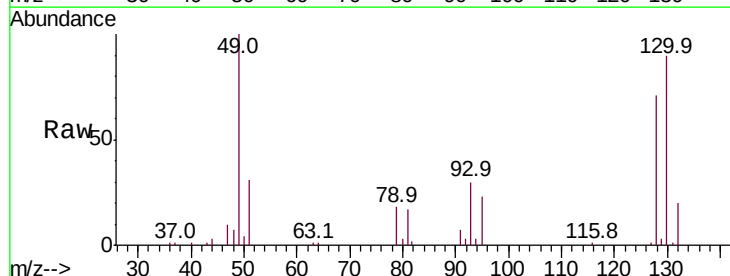
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



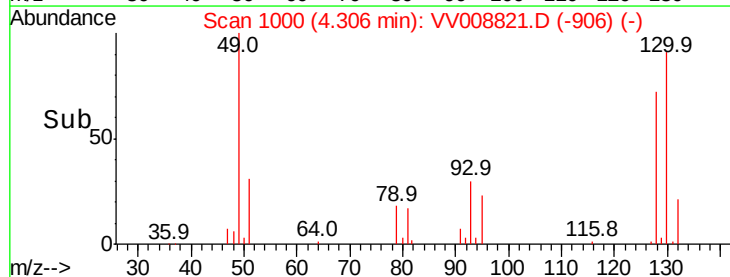
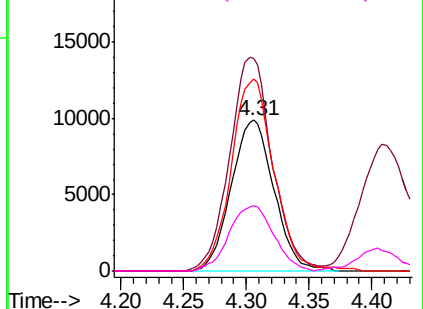
#23

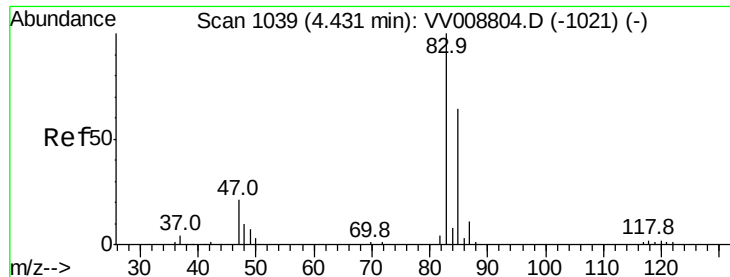
Bromochloromethane
 Concen: 5.040 ug/L
 RT: 4.31 min Scan# 1000
 Delta R.T. 0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

Tgt Ion: 128 Resp: 23402
 Ion Ratio Lower Upper
 128 100
 49 140.8 100.4 186.4
 130 127.0 88.5 164.4
 51 43.3 37.1 55.7



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VV0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VV0

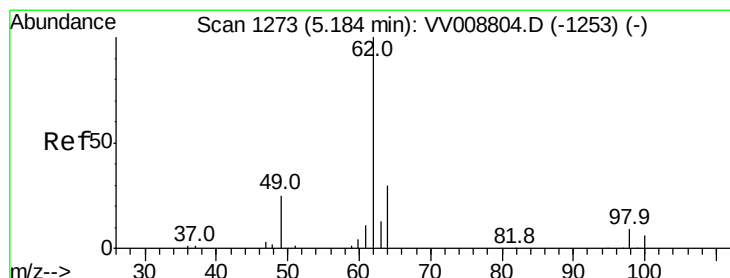
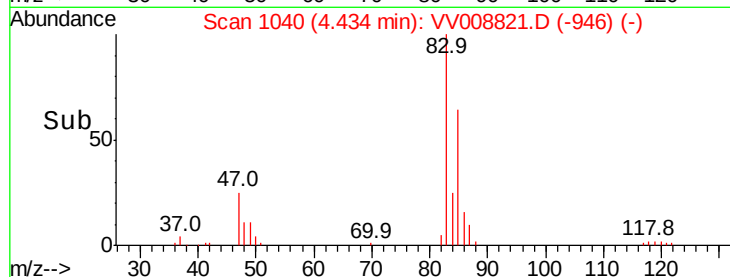
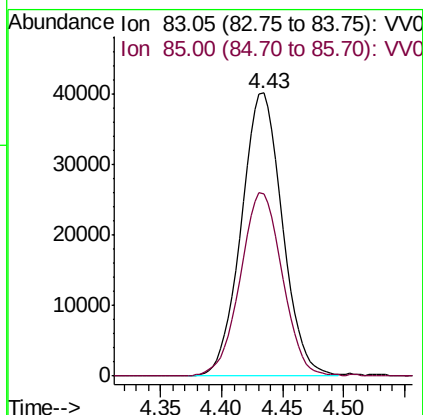
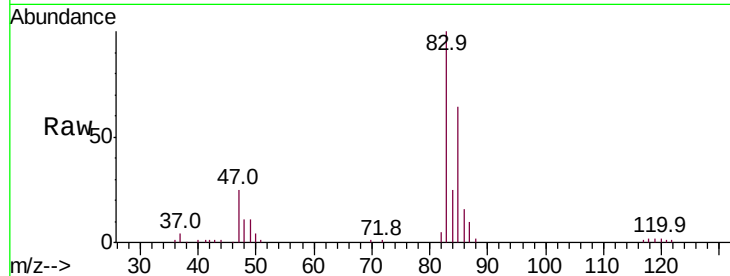




#25
Chloroform
Concen: 4.798 ug/L
RT: 4.43 min Scan# 1040
Delta R.T. 0.00 min
Lab File: VV008821.D
Acq: 30 Nov 2018 18:56

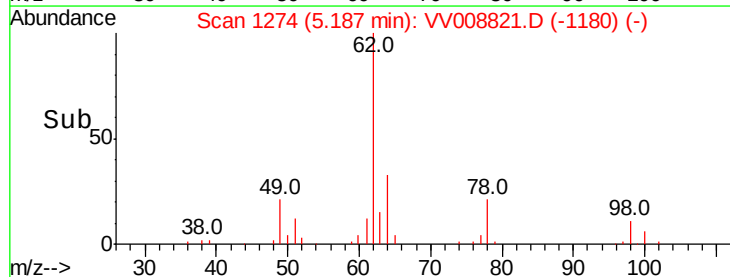
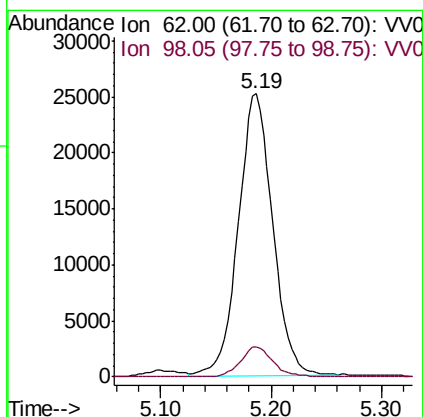
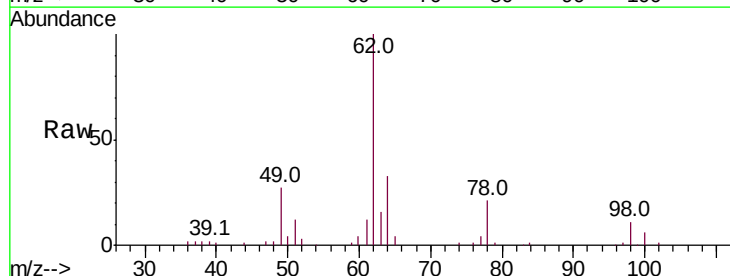
Instrument :
MSVOA_V
ClientSampleId :

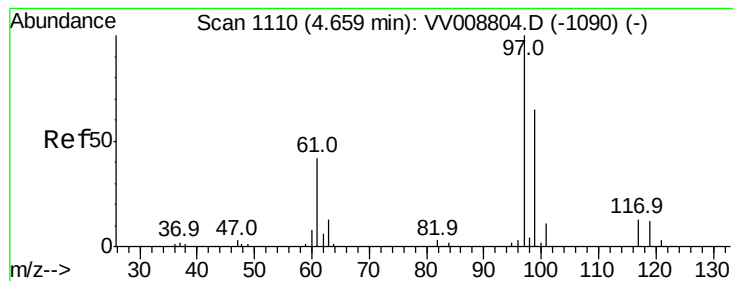
Tot Ion: 83 Resp: 93364
Ion Ratio Lower Upper
83 100
85 64.3 47.0 87.4



#27
1,2-Dichloroethane
Concen: 4.842 ug/L
RT: 5.19 min Scan# 1274
Delta R.T. 0.00 min
Lab File: VV008821.D
Acq: 30 Nov 2018 18:56

Tgt Ion: 62 Resp: 54136
Ion Ratio Lower Upper
62 100
98 10.6 7.7 11.5





#29

1,1,1-Trichloroethane

Concen: 5.072 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

Instrument :
MSVOA_V
ClientSampleId :

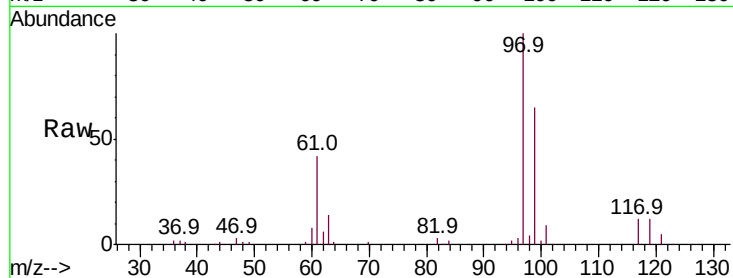
Tot Ion: 97 Resp: 81071

Ion Ratio Lower Upper

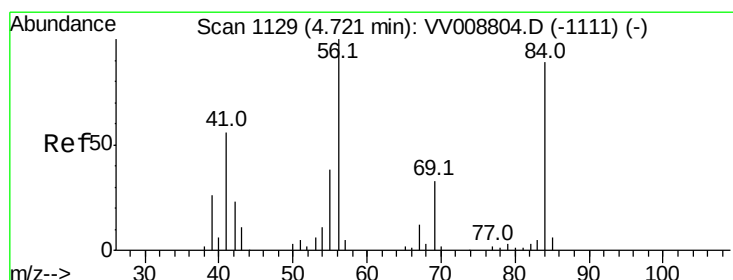
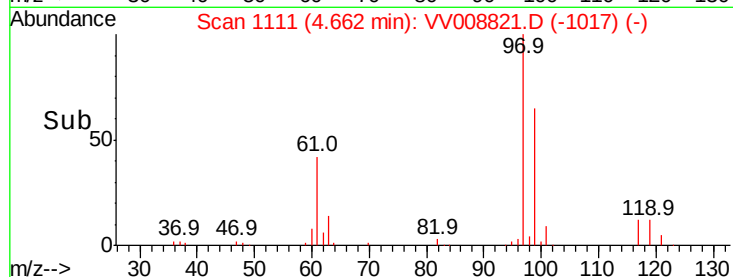
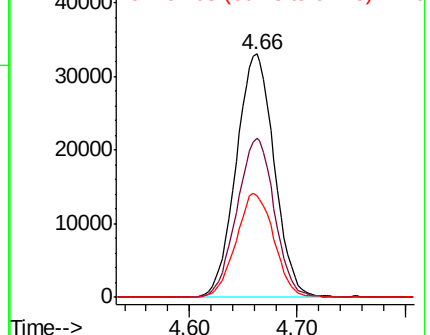
97 100

99 64.5 52.1 78.1

61 42.6 33.9 50.9



Abundance Ion 96.95 (96.65 to 97.65): VV0
Ion 99.05 (98.75 to 99.75): VV0
Ion 61.05 (60.75 to 61.75): VV0



#30

Cyclohexane

Concen: 4.724 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

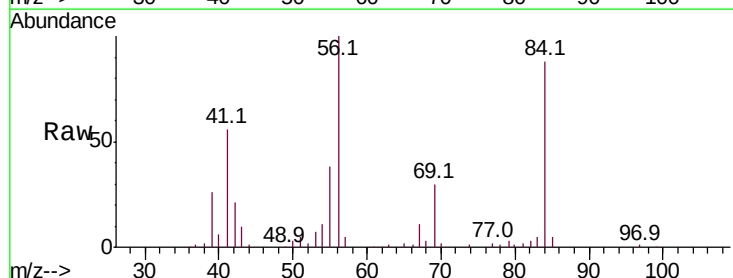
Tgt Ion: 56 Resp: 79517

Ion Ratio Lower Upper

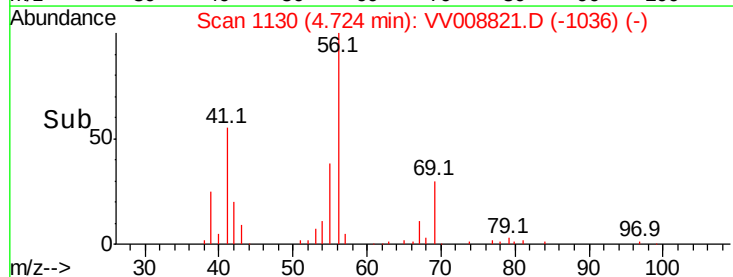
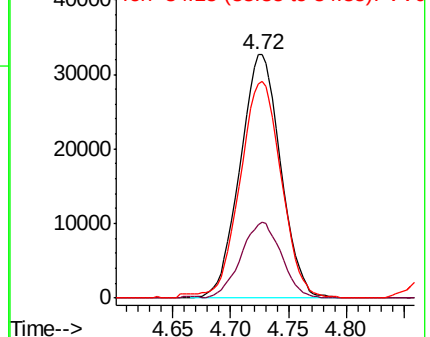
56 100

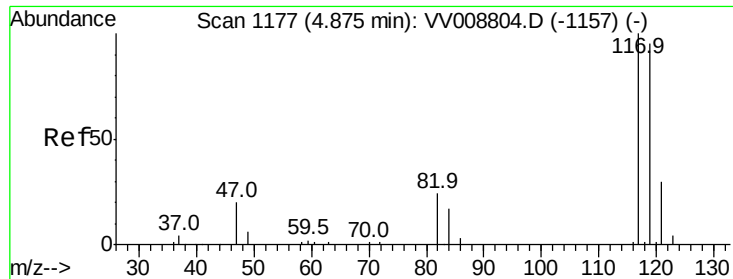
69 31.1 25.1 37.7

84 90.4 70.8 106.2



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





#31

Carbon tetrachloride

Concen: 5.030 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

Instrument :

MSVOA_V

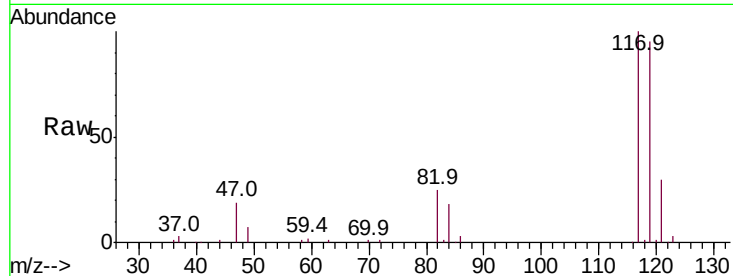
ClientSampleId :

Tot Ion:117 Resp: 69595

Ion Ratio Lower Upper

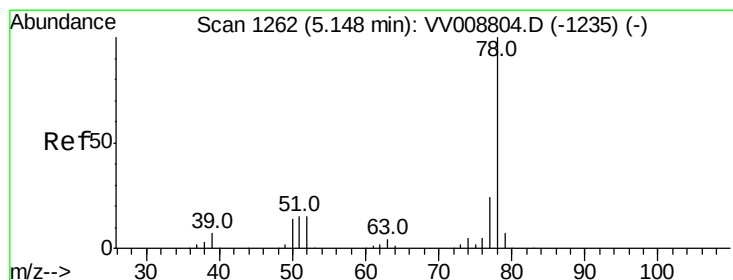
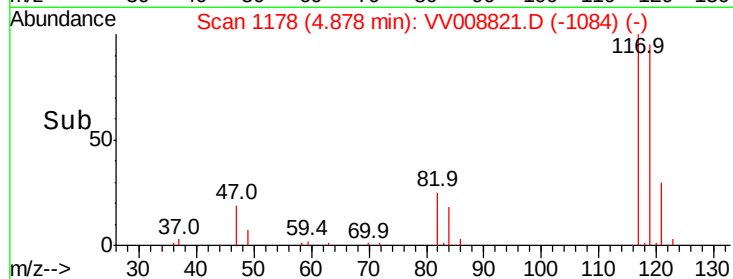
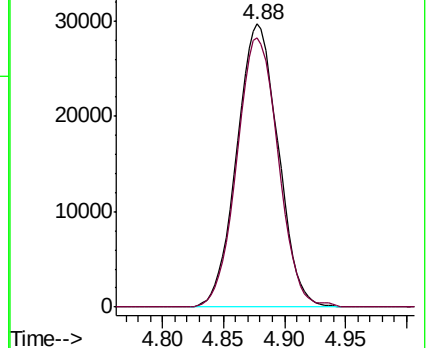
117 100

119 95.3 77.7 116.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.973 ug/L

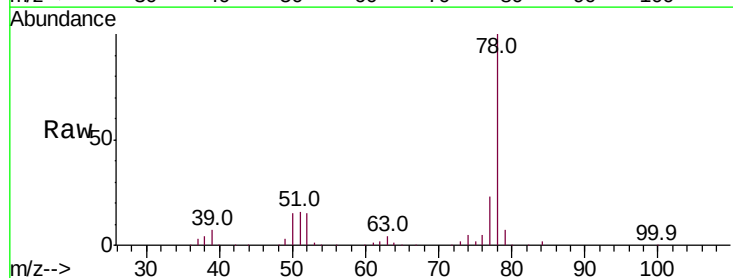
RT: 5.15 min Scan# 1263

Delta R.T. 0.00 min

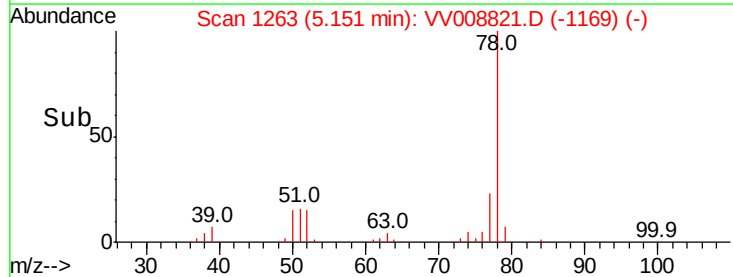
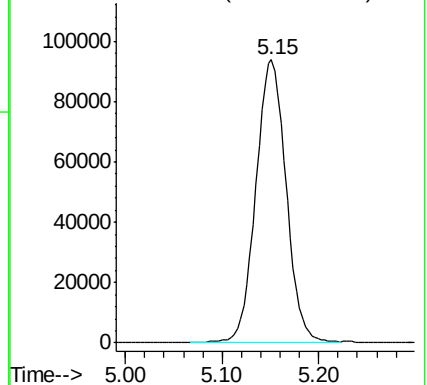
Lab File: VV008821.D

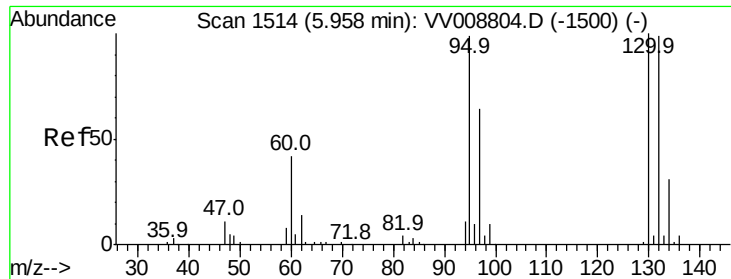
Acq: 30 Nov 2018 18:56

Tgt Ion: 78 Resp: 204241



Abundance Ion 78.10 (77.80 to 78.80): VV0

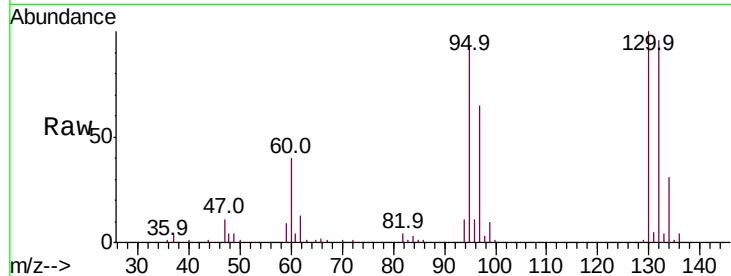




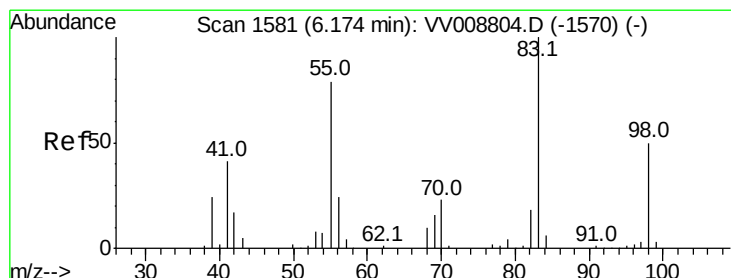
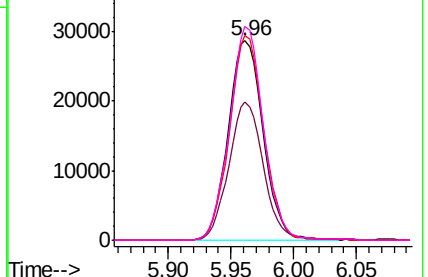
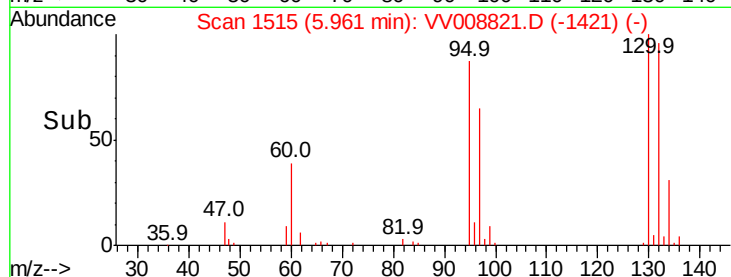
#34
 Trichloroethene
 Concen: 4.867 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 55576
 Ion Ratio Lower Upper
 95 100
 97 69.1 46.5 86.3
 132 102.7 69.4 128.8
 130 107.1 73.1 135.8

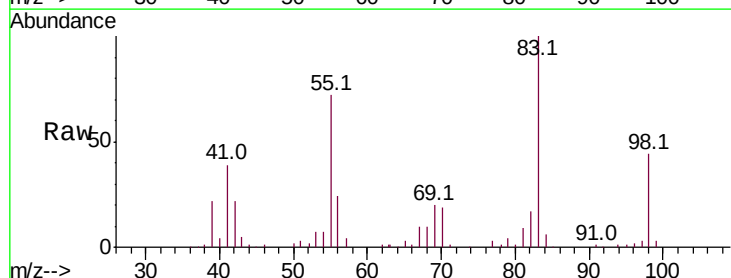


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

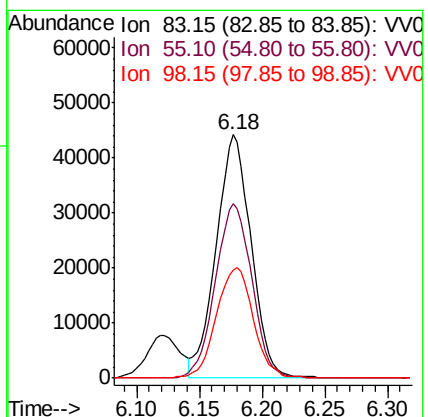
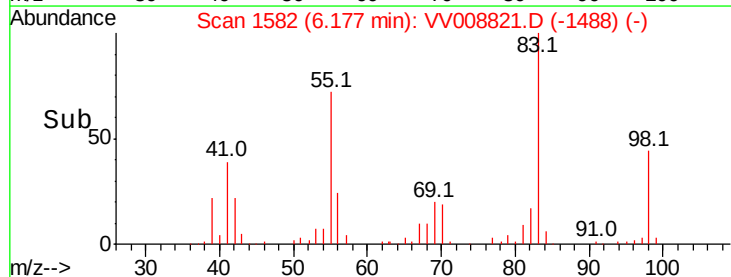


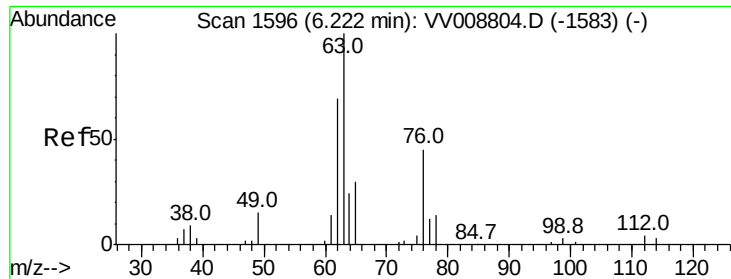
#35
 Methylcyclohexane
 Concen: 4.737 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

Tgt Ion: 83 Resp: 85768
 Ion Ratio Lower Upper
 83 100
 55 74.5 60.1 90.1
 98 47.9 37.4 56.2



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

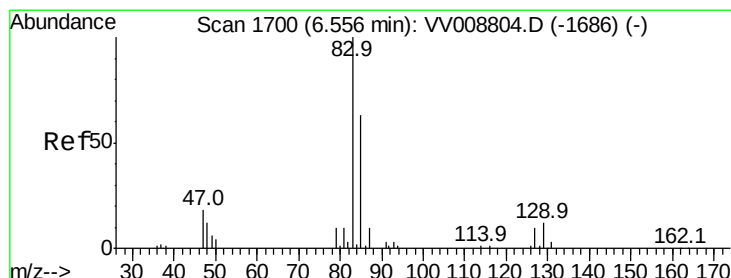
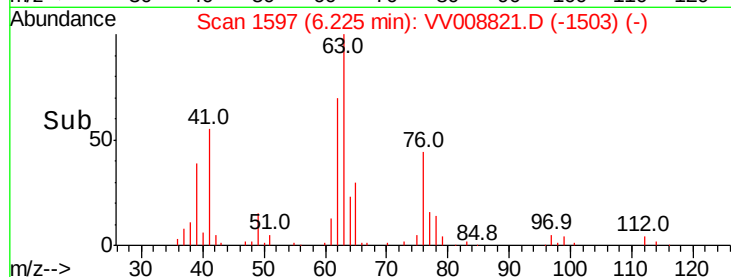
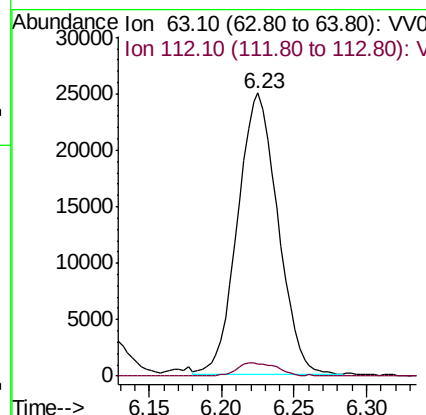
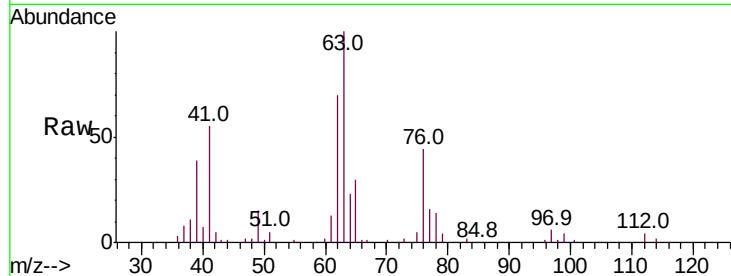




#37
 1,2-Dichloropropane
 Concen: 4.696 ug/L
 RT: 6.23 min Scan# 1597
 Delta R.T. 0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

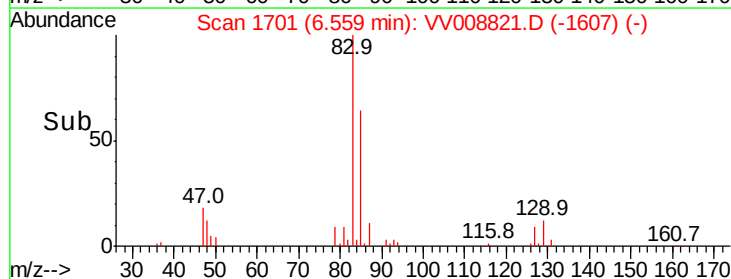
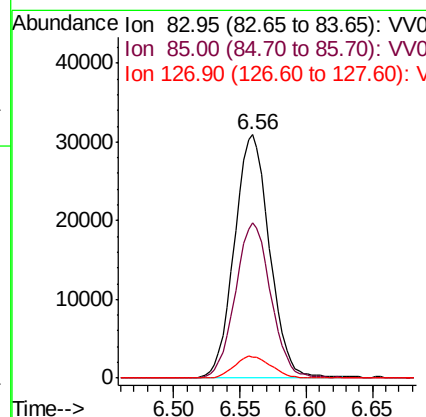
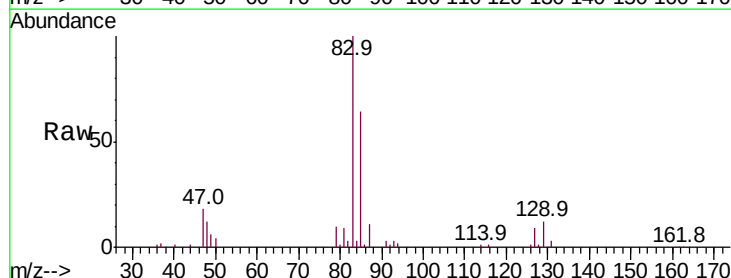
Instrument :
 MSVOA_V
 ClientSampled :

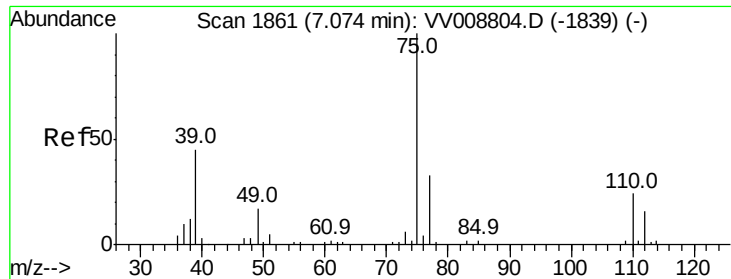
Tot Ion: 63 Resp: 47942
 Ion Ratio Lower Upper
 63 100
 112 4.7 3.5 5.3



#38
 Bromodichloromethane
 Concen: 4.891 ug/L
 RT: 6.56 min Scan# 1701
 Delta R.T. 0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

Tgt Ion: 83 Resp: 57019
 Ion Ratio Lower Upper
 83 100
 85 63.8 44.4 82.4
 127 8.8 6.9 10.3

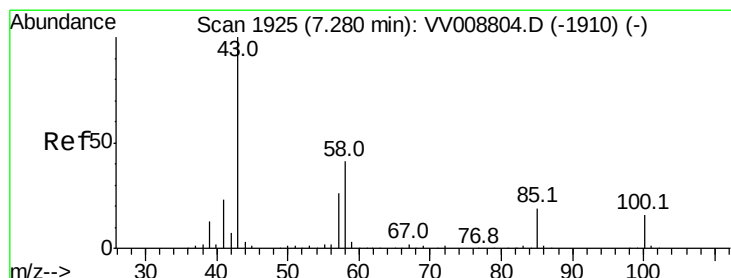
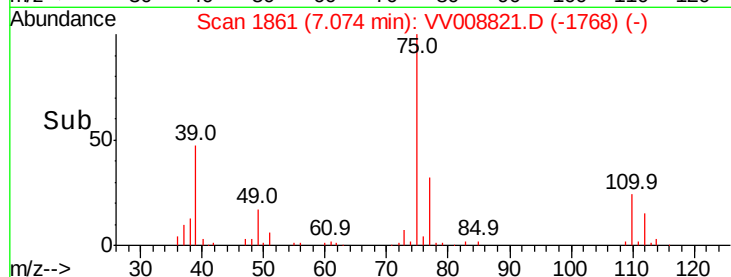
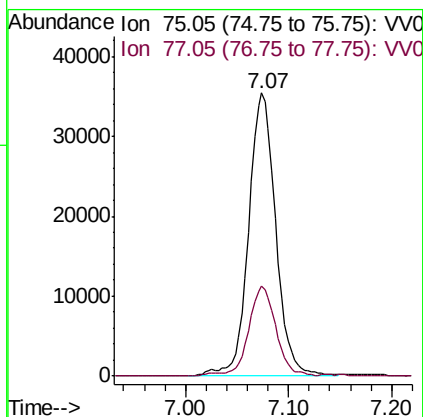
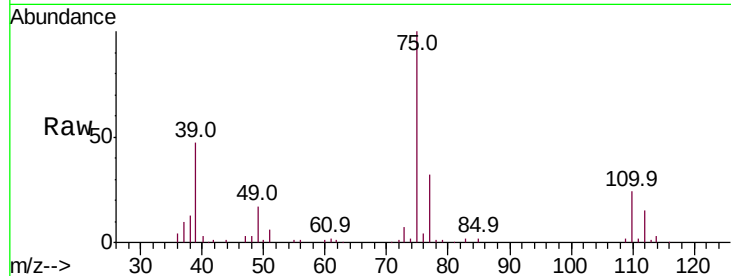




#39
 cis-1,3-Dichloropropene
 Concen: 4.835 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

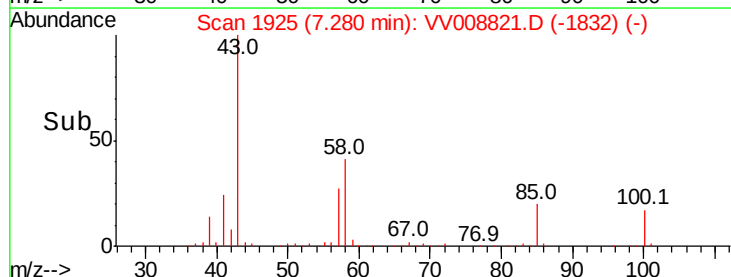
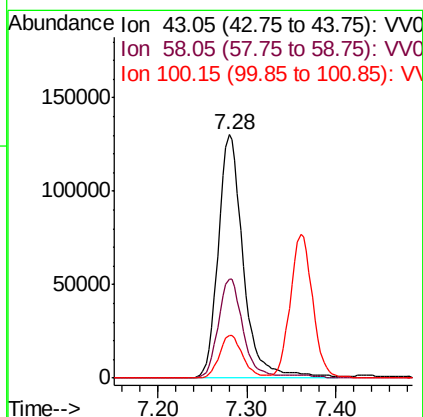
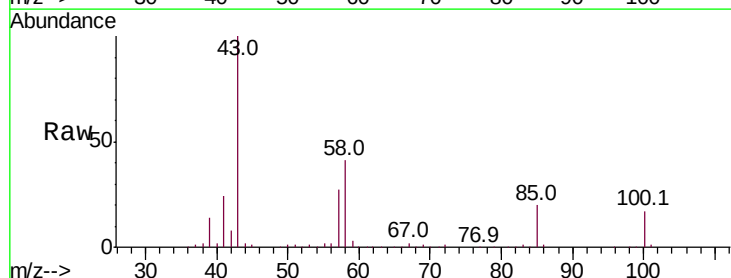
Instrument :
 MSVOA_V
 ClientSampleId :

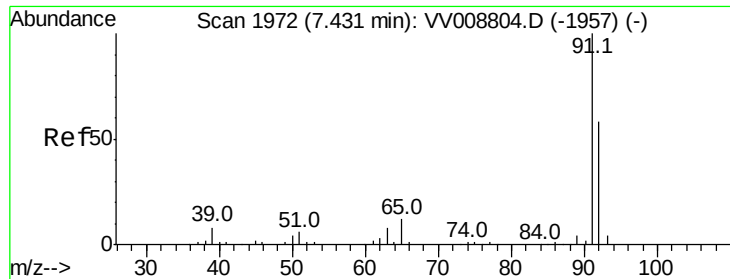
Tot Ion: 75 Resp: 64827
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.8 42.4



#40
 4-Methyl-2-pentanone
 Concen: 48.091 ug/L
 RT: 7.28 min Scan# 1925
 Delta R.T. -0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

Tgt Ion: 43 Resp: 254090
 Ion Ratio Lower Upper
 43 100
 58 40.0 31.3 46.9
 100 16.5 12.6 19.0





#42

Toluene

Concen: 5.086 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

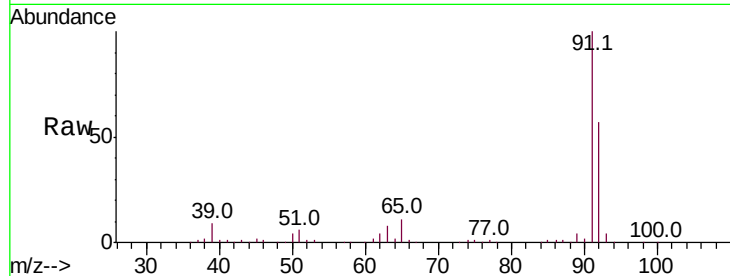
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 218639

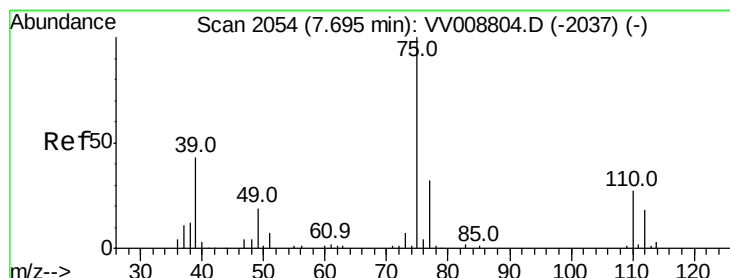
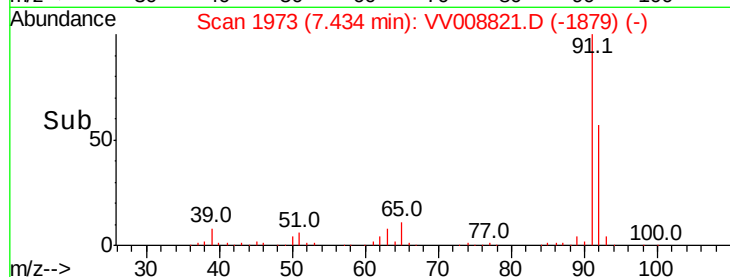
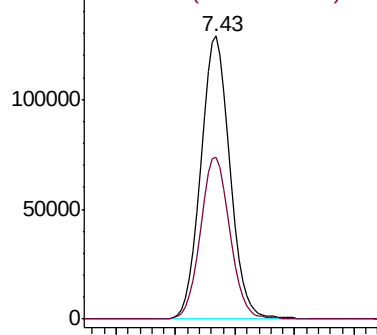
Ion Ratio Lower Upper

91 100

92 57.1 40.5 75.3



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: 4.803 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV008821.D

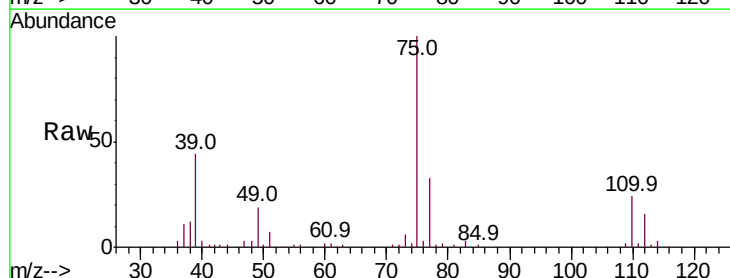
Acq: 30 Nov 2018 18:56

Tgt Ion: 75 Resp: 50760

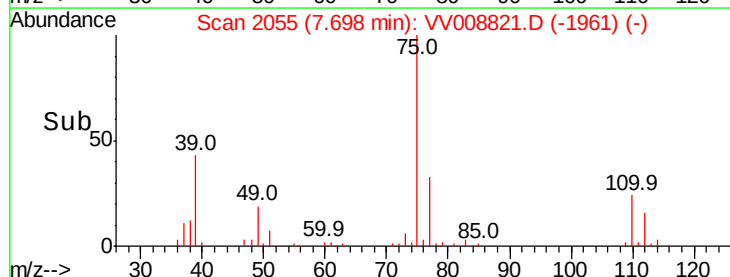
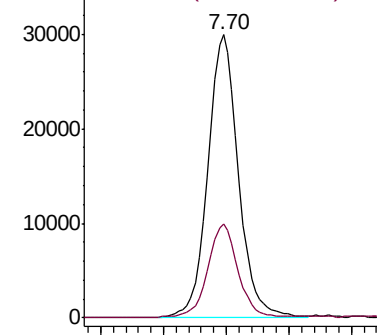
Ion Ratio Lower Upper

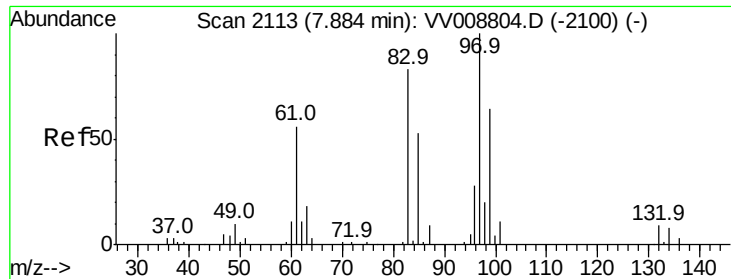
75 100

77 33.2 21.3 39.5



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





#45

1,1,2-Trichloroethane

Concen: 4.930 ug/L

RT: 7.89 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 97 Resp: 33390

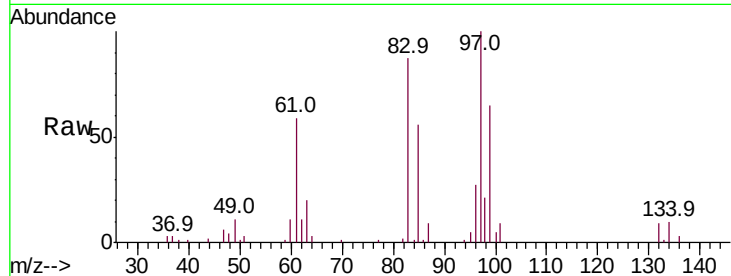
Ion Ratio Lower Upper

97 100

99 65.2 44.2 82.2

83 87.0 59.6 110.6

85 55.6 38.8 72.0



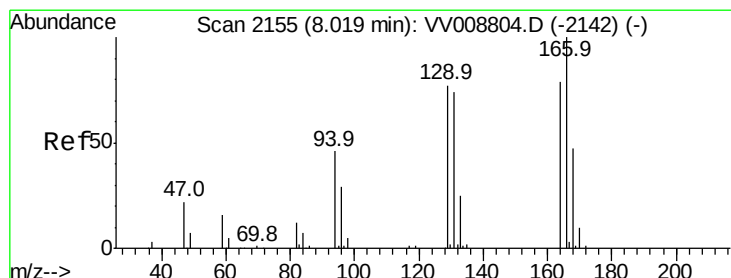
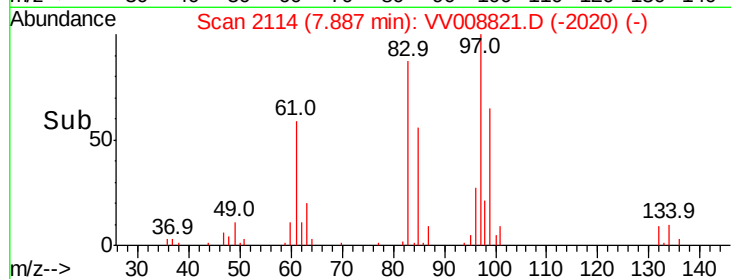
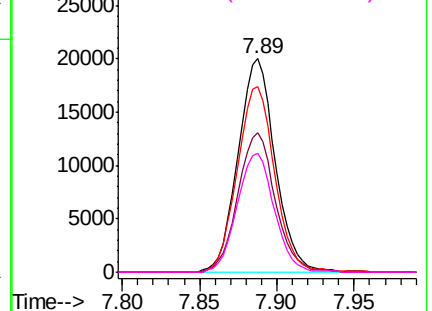
Abundance

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



#47

Tetrachloroethene

Concen: 5.157 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

Tgt Ion:164 Resp: 45540

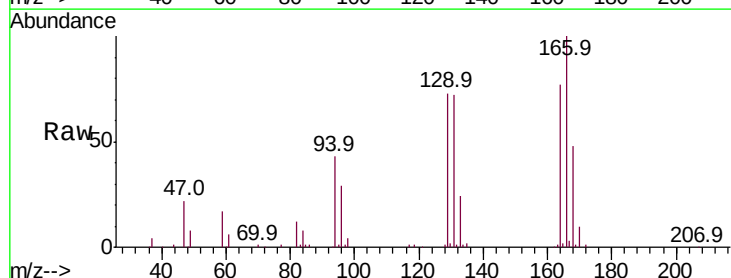
Ion Ratio Lower Upper

164 100

129 95.7 67.5 125.3

131 93.8 65.9 122.5

166 130.2 89.2 165.6



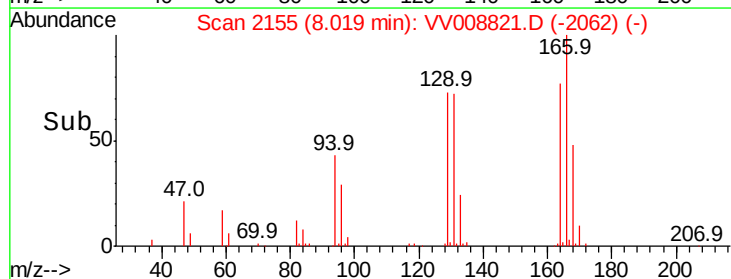
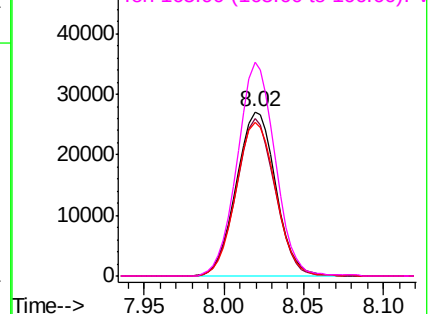
Abundance

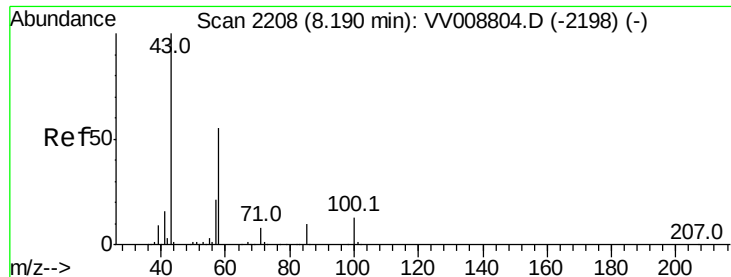
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

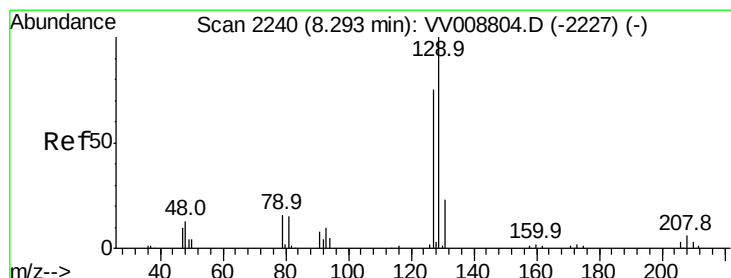
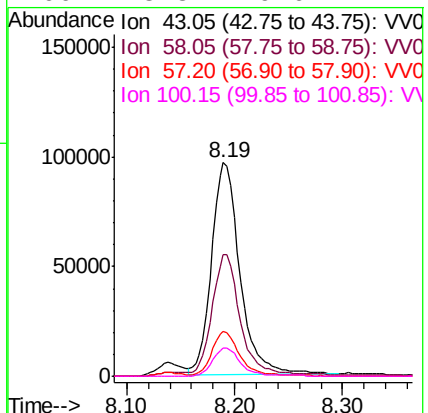
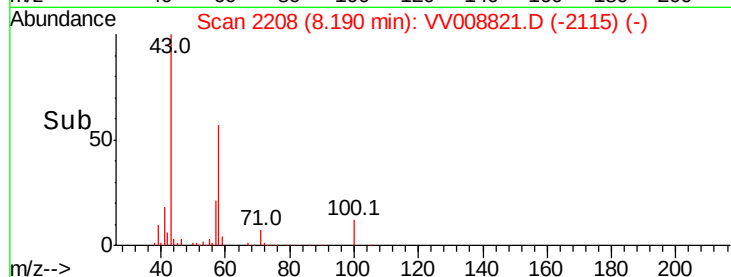
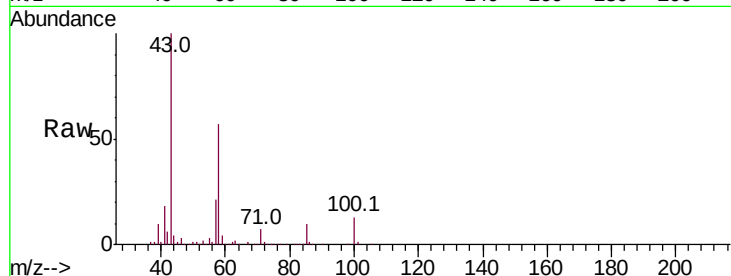




#48
2-Hexanone
Concen: 48.028 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VV008821.D
Acq: 30 Nov 2018 18:56

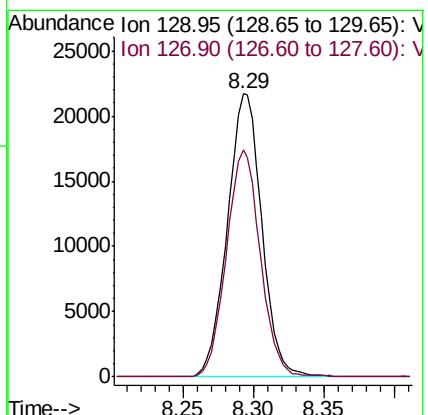
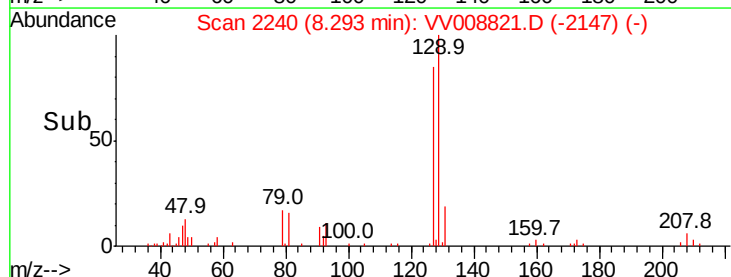
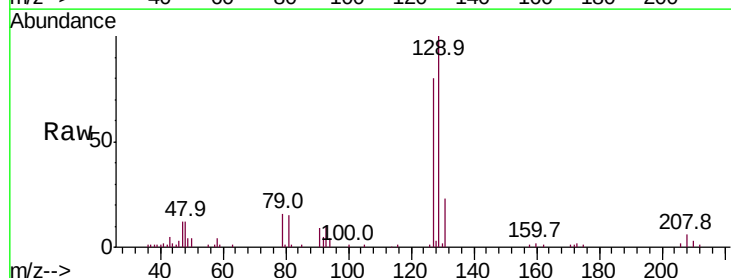
Instrument :
MSVOA_V
ClientSampled :

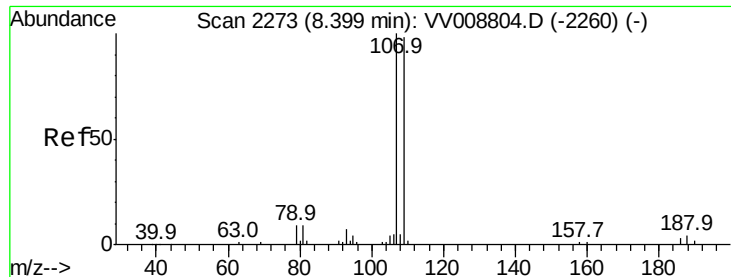
Tot Ion: 43 Resp: 178147
Ion Ratio Lower Upper
43 100
58 57.2 44.5 66.7
57 20.0 15.2 22.8
100 13.3 9.6 14.4



#49
Dibromochloromethane
Concen: 5.016 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. -0.00 min
Lab File: VV008821.D
Acq: 30 Nov 2018 18:56

Tgt Ion: 129 Resp: 36993
Ion Ratio Lower Upper
129 100
127 80.3 55.3 102.7

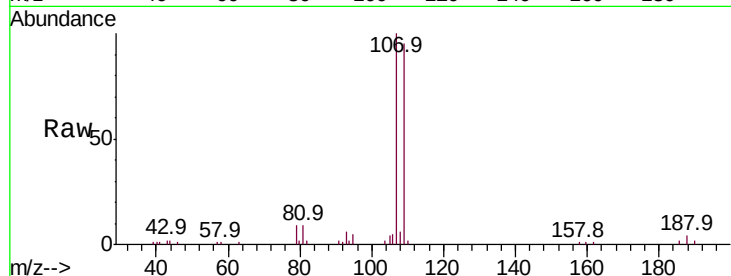




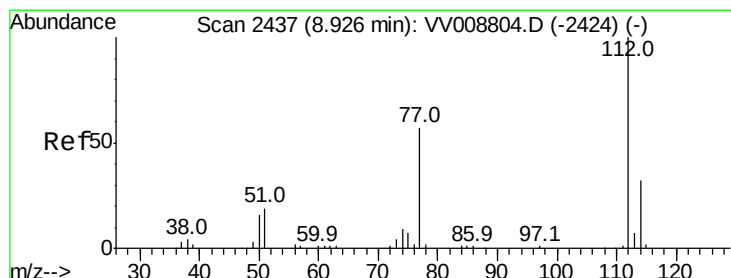
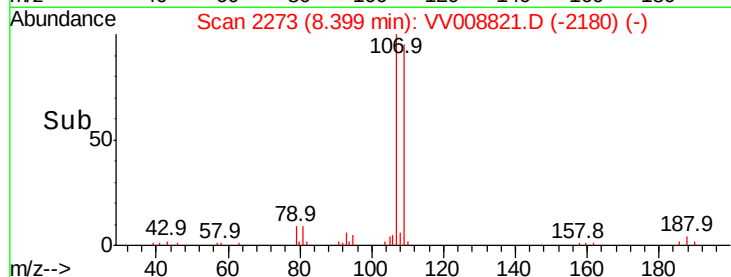
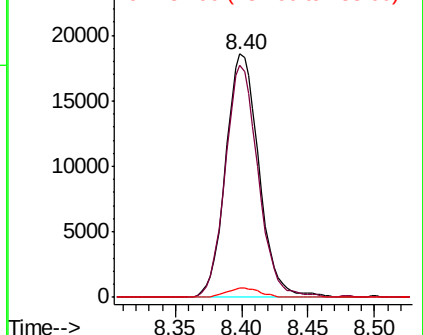
#50
 1,2-Dibromoethane
 Concen: 5.091 ug/L
 RT: 8.40 min Scan# 2273
 Delta R.T. -0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.4	67.8	126.0
188	3.7	3.1	4.7

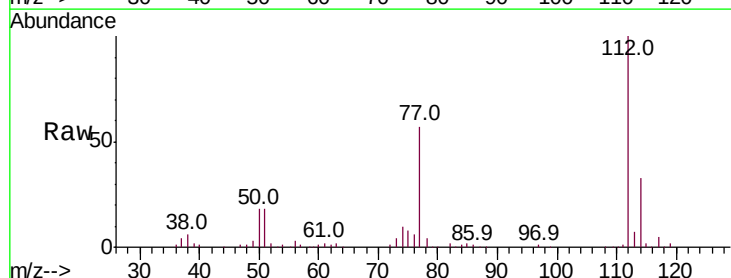


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

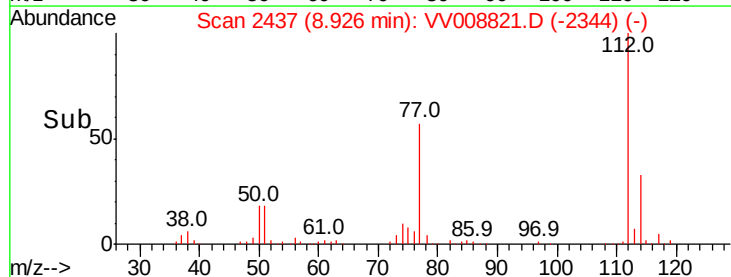
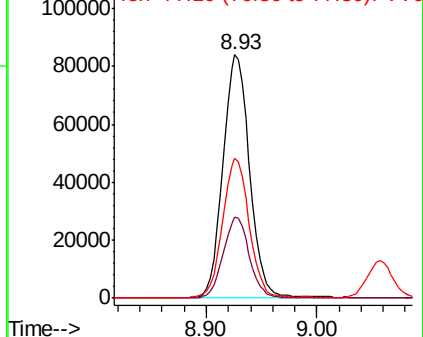


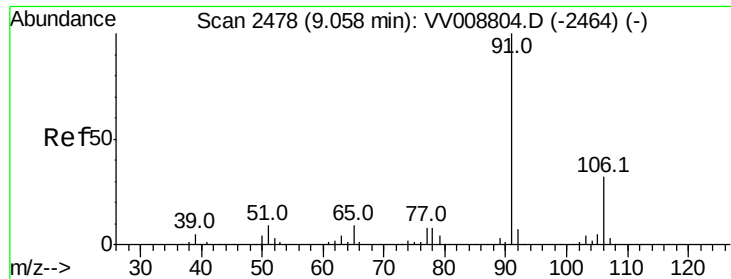
#51
 Chlorobenzene
 Concen: 4.985 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. -0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.2	22.8	42.4
77	57.3	46.2	69.4



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): V

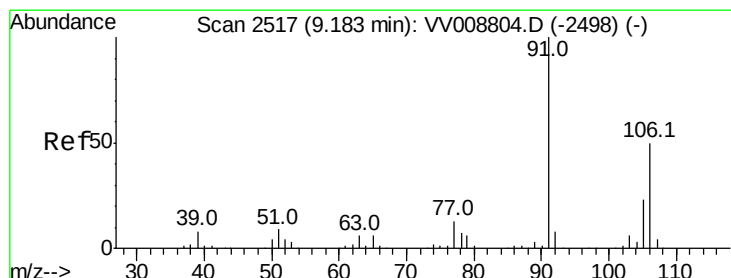
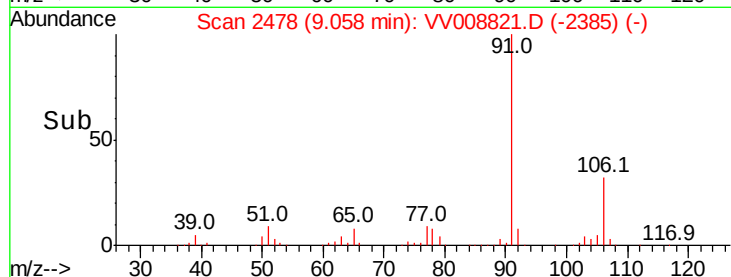
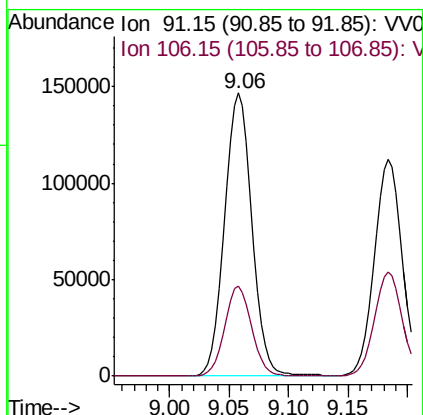
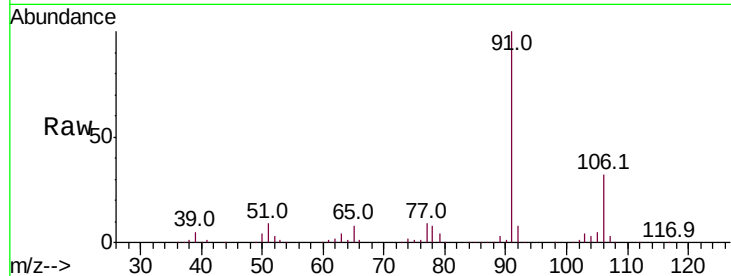




#52
Ethylbenzene
Concen: 5.039 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. -0.00 min
Lab File: VV008821.D
Acq: 30 Nov 2018 18:56

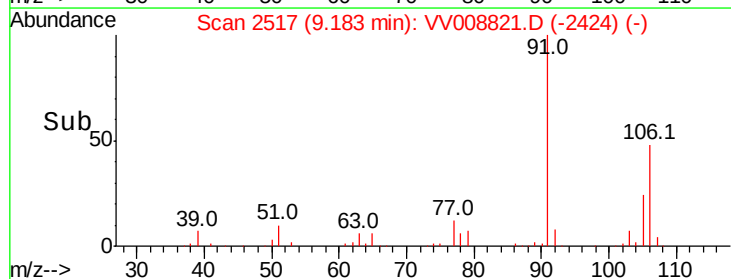
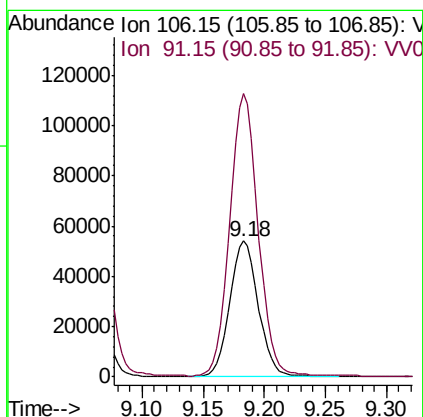
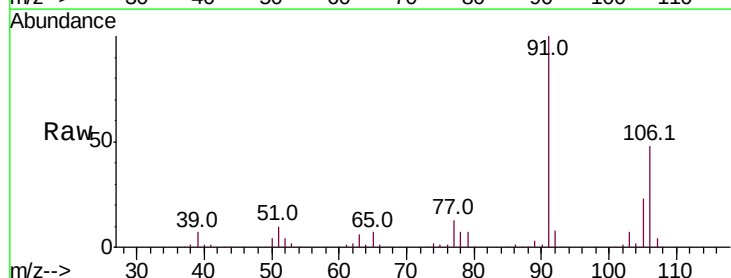
Instrument :
MSVOA_V
ClientSampleId :

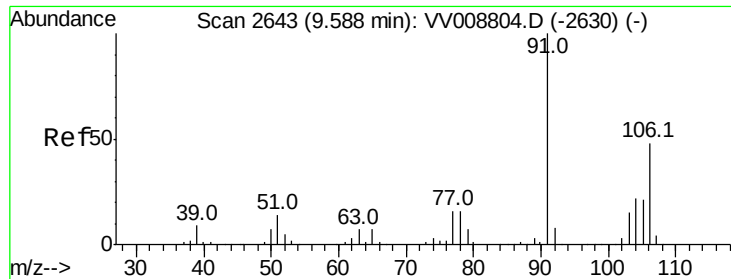
Tot Ion: 91 Resp: 234361
Ion Ratio Lower Upper
91 100
106 31.7 22.4 41.6



#53
m,p-xylene
Concen: 5.045 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. -0.00 min
Lab File: VV008821.D
Acq: 30 Nov 2018 18:56

Tgt Ion:106 Resp: 88005
Ion Ratio Lower Upper
106 100
91 208.4 145.5 270.3





#54

o-xylene

Concen: 5.170 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

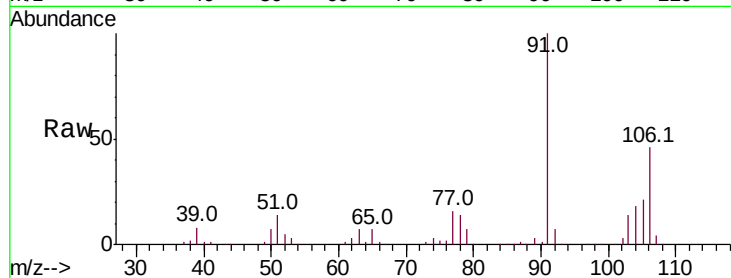
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 86999

Ion Ratio Lower Upper

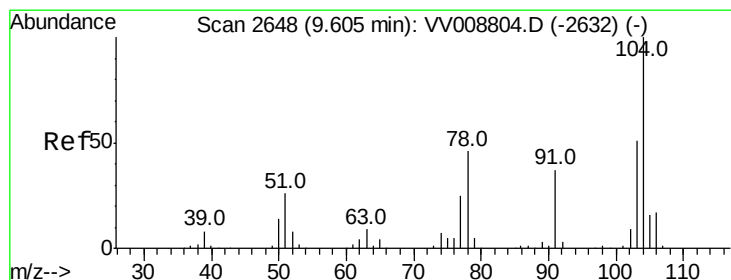
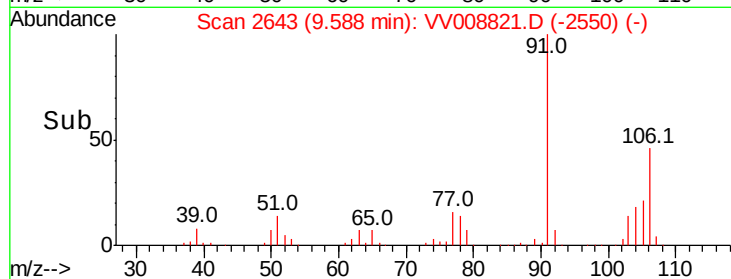
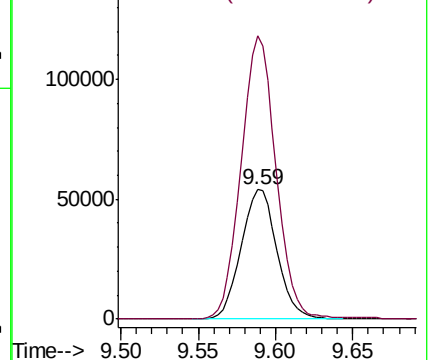
106 100

91 218.8 148.7 276.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.238 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV008821.D

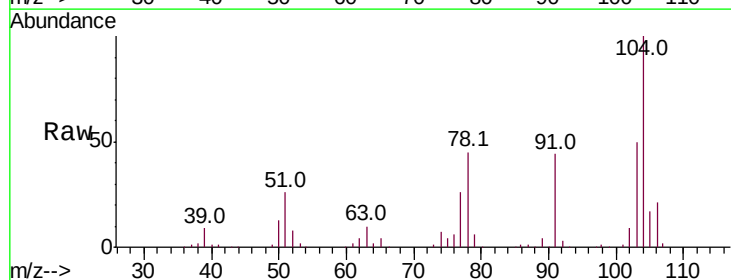
Acq: 30 Nov 2018 18:56

Tgt Ion:104 Resp: 146563

Ion Ratio Lower Upper

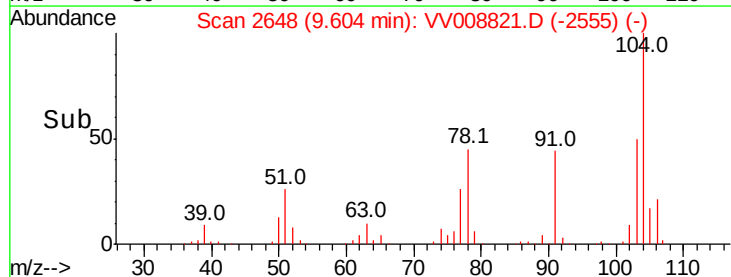
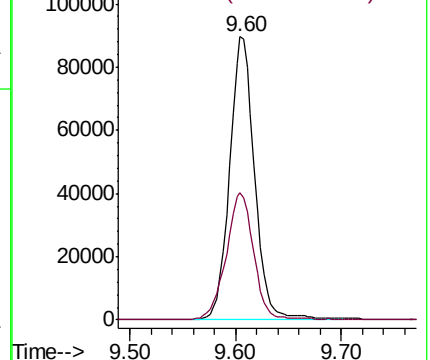
104 100

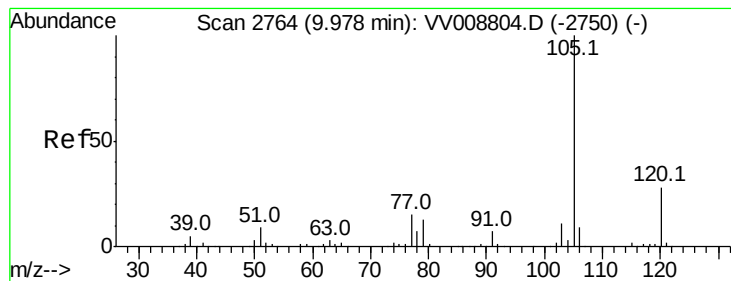
78 45.0 32.2 59.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.055 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

Instrument :
MSVOA_V
ClientSampleId :

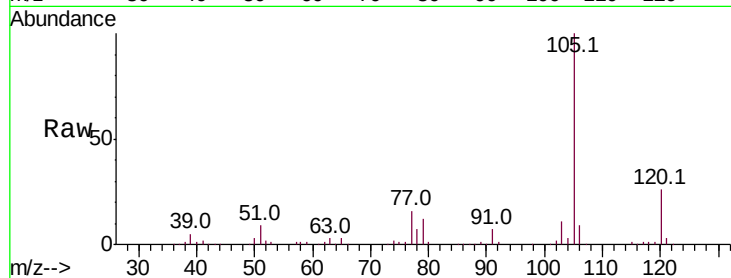
Tot Ion:105 Resp: 231718

Ion Ratio Lower Upper

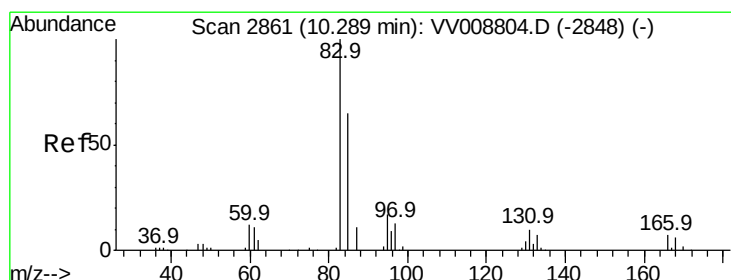
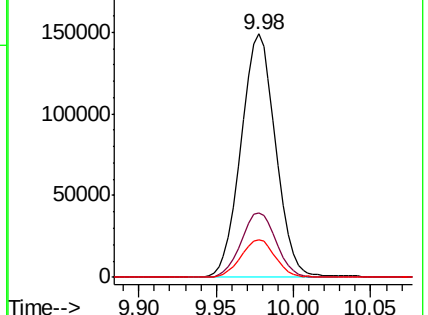
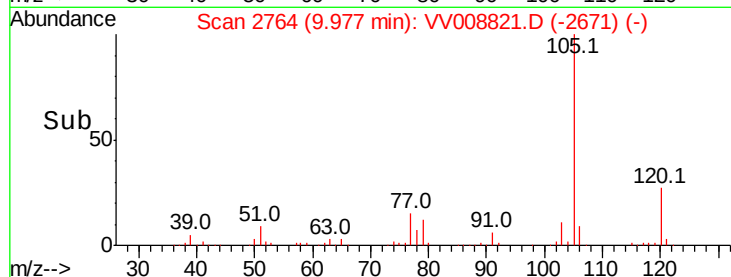
105 100

120 27.0 21.5 32.3

77 15.6 12.2 18.4



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.139 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

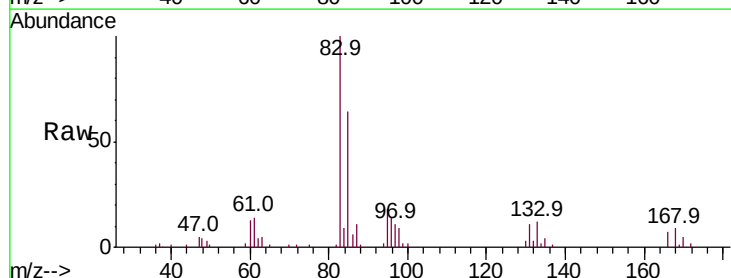
Tgt Ion: 83 Resp: 37119

Ion Ratio Lower Upper

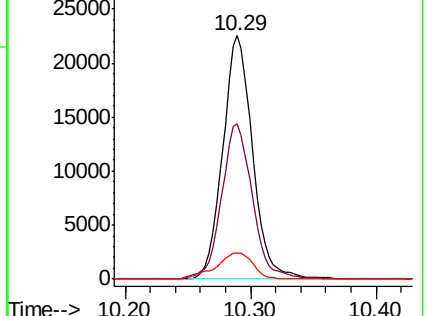
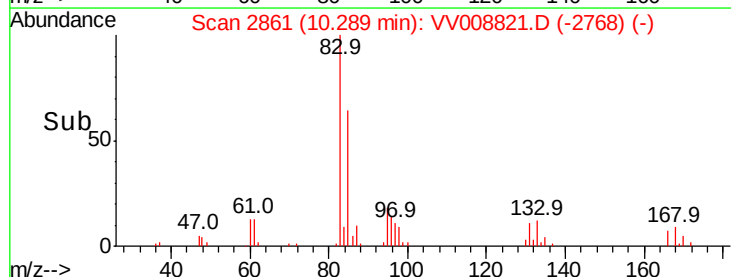
83 100

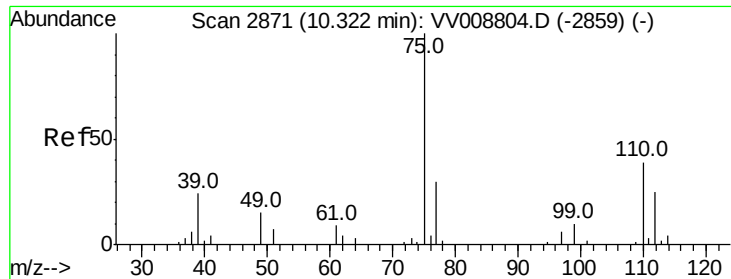
85 63.6 45.6 84.8

131 10.7 7.3 10.9



Abundance Ion 82.95 (82.65 to 83.65): VV0
Ion 85.00 (84.70 to 85.70): VV0
Ion 130.95 (130.65 to 131.65): V

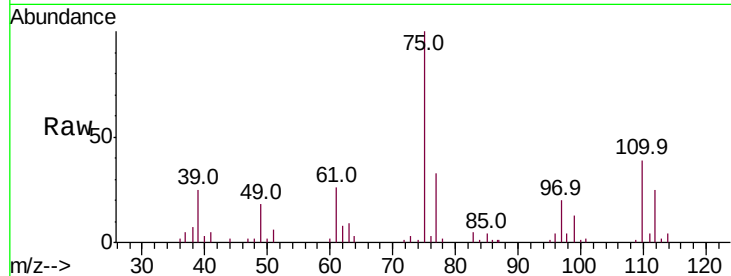




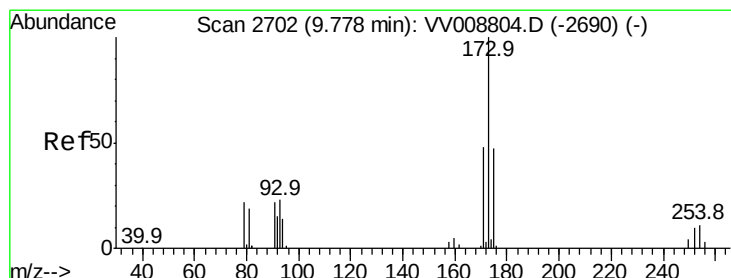
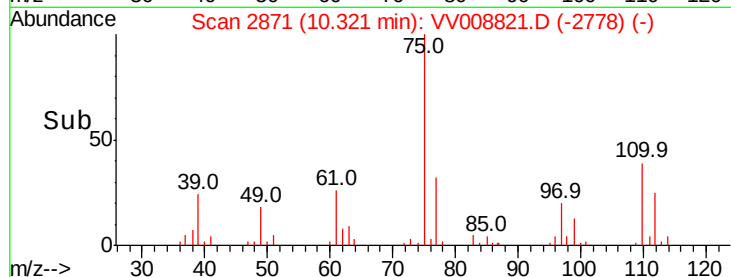
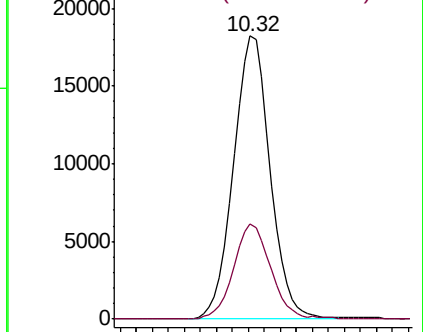
#59
 1,2,3-Trichloropropane
 Concen: 4.824 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 75 Resp: 28259
 Ion Ratio Lower Upper
 75 100
 77 34.1 26.9 40.3

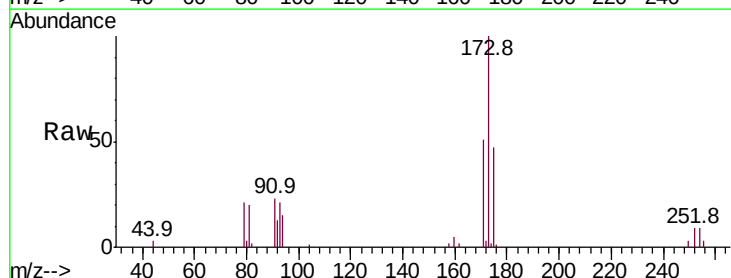


Abundance Ion 75.00 (74.70 to 75.70): VV008804.D (-2859) (-)
 Ion 77.00 (76.70 to 77.70): VV008804.D (-2859) (-)

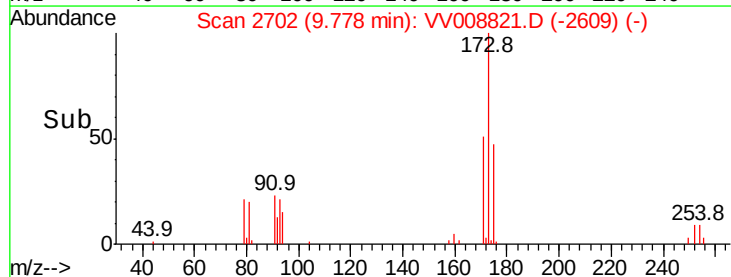
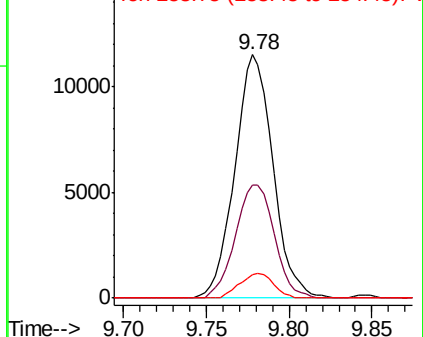


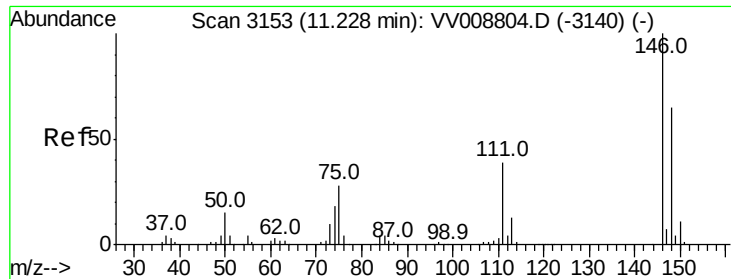
#61
 Bromoform
 Concen: 5.113 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. -0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

Tgt Ion:173 Resp: 18400
 Ion Ratio Lower Upper
 173 100
 175 47.6 39.6 59.4
 254 8.9 6.9 10.3



Abundance Ion 172.90 (172.60 to 173.60): VV008804.D (-2690) (-)
 Ion 174.90 (174.60 to 175.60): VV008804.D (-2690) (-)
 Ion 253.75 (253.45 to 254.45): VV008804.D (-2690) (-)





#62

1,3-Dichlorobenzene

Concen: 4.965 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

Instrument :

MSVOA_V

ClientSampled :

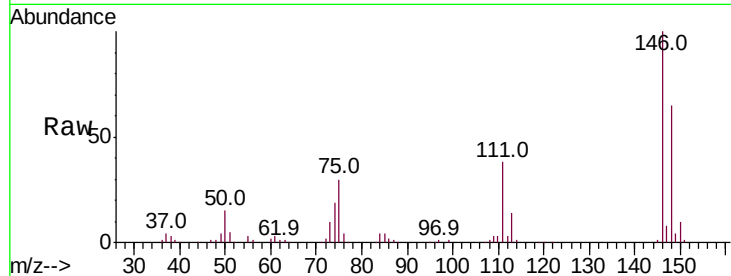
Tot Ion:146 Resp: 108460

Ion Ratio Lower Upper

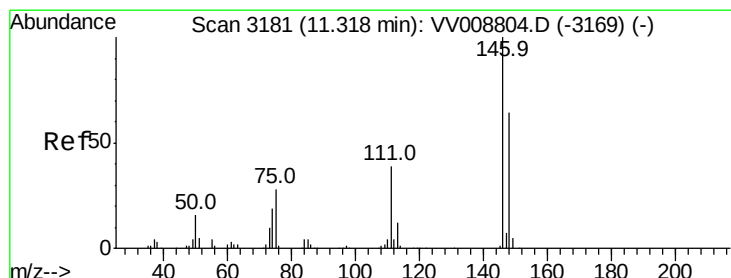
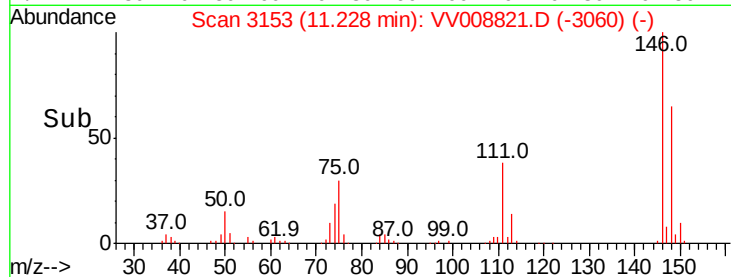
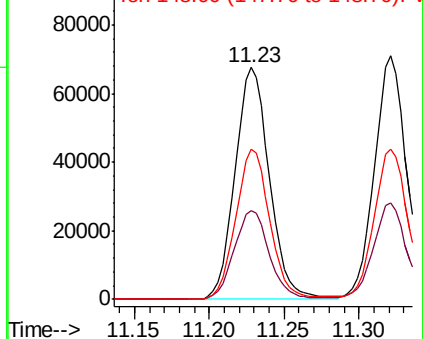
146 100

111 38.4 28.1 52.1

148 64.8 44.4 82.4



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.068 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

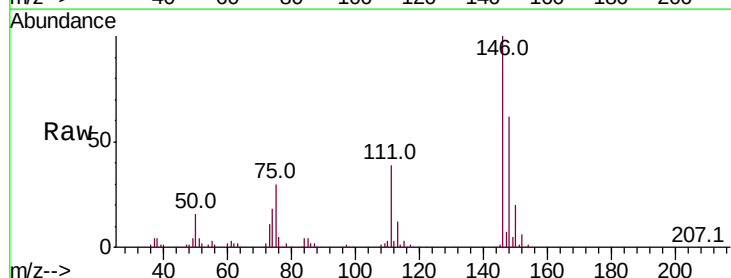
Tgt Ion:146 Resp: 109530

Ion Ratio Lower Upper

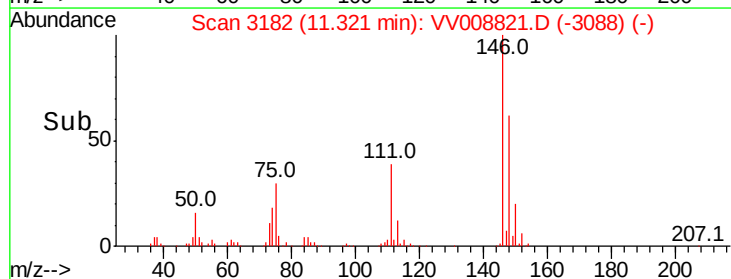
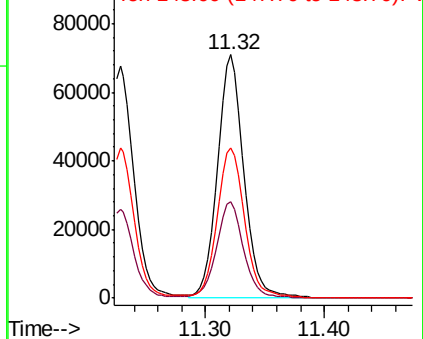
146 100

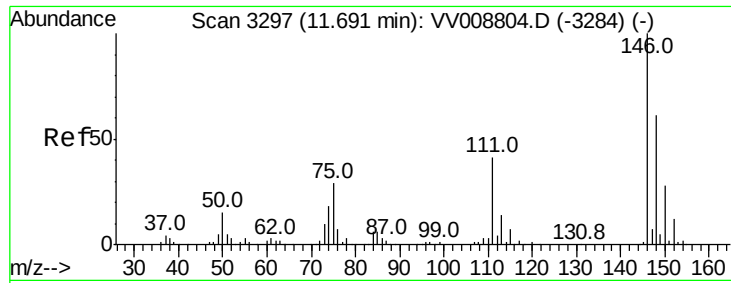
111 39.5 27.6 51.4

148 61.9 46.5 86.3



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

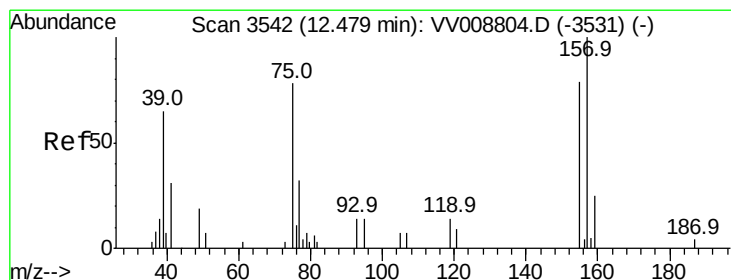
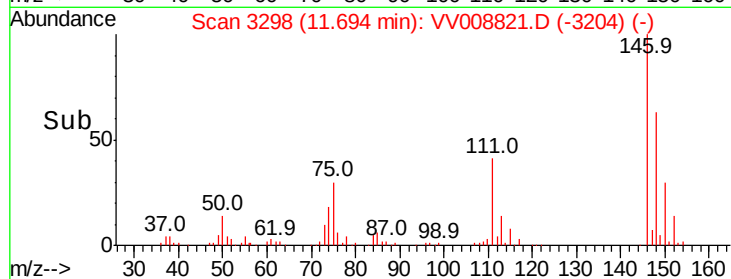
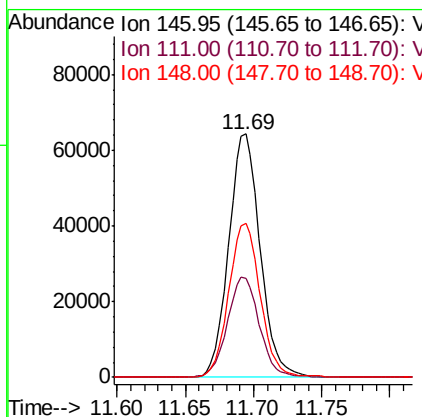
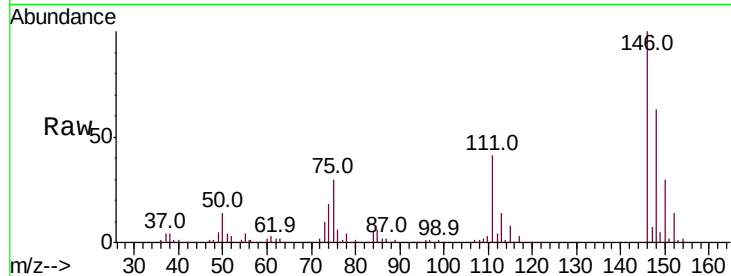




#65
 1,2-Dichlorobenzene
 Concen: 5.006 ug/L
 RT: 11.69 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

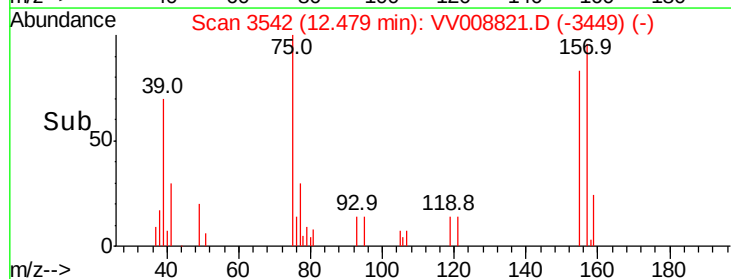
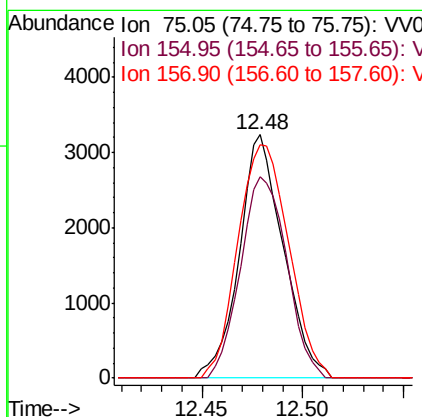
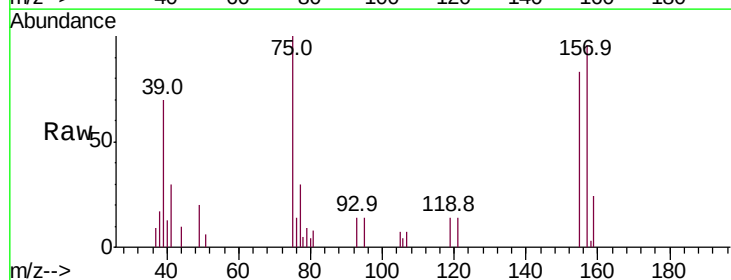
Instrument :
 MSVOA_V
 ClientSampleId :

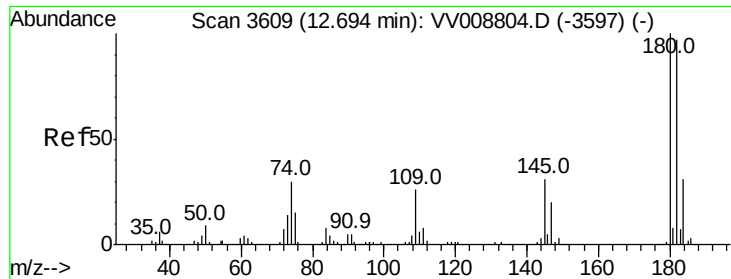
Tot Ion:146 Resp: 103168
 Ion Ratio Lower Upper
 146 100
 111 40.9 34.8 52.2
 148 63.4 51.1 76.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.876 ug/L
 RT: 12.48 min Scan# 3542
 Delta R.T. -0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

Tgt Ion: 75 Resp: 4949
 Ion Ratio Lower Upper
 75 100
 155 82.6 66.7 100.1
 157 95.6 88.0 132.0

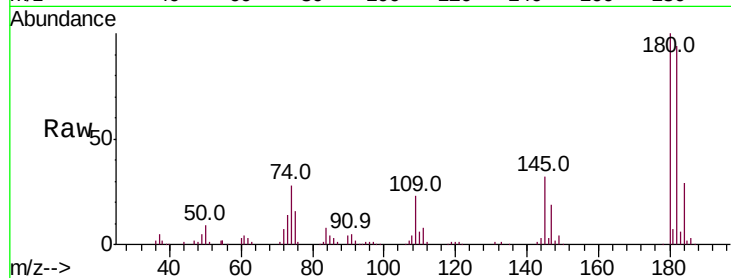




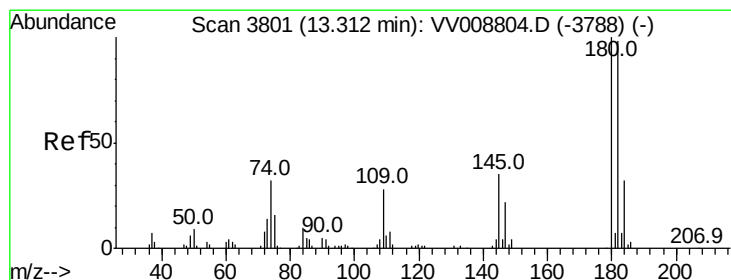
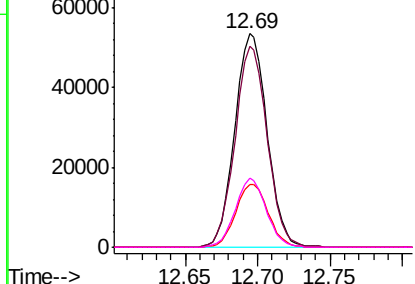
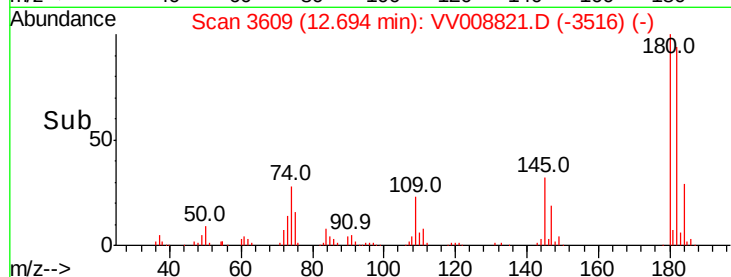
#67
 1,3,5-Trichlorobenzene
 Concen: 5.159 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180 Resp: 82714
 Ion Ratio Lower Upper
 180 100
 182 93.5 74.7 112.1
 184 29.6 23.3 34.9
 145 30.8 24.2 36.4

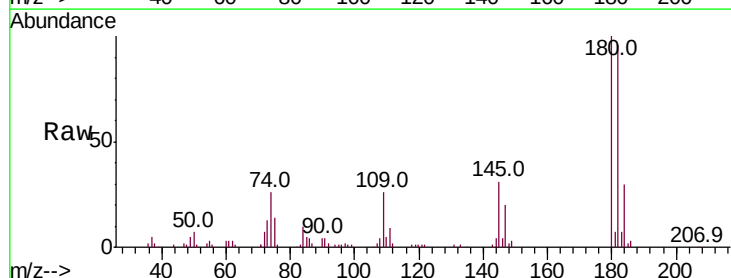


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

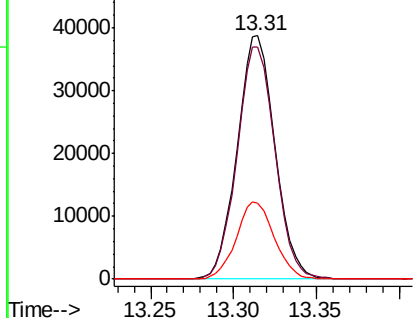
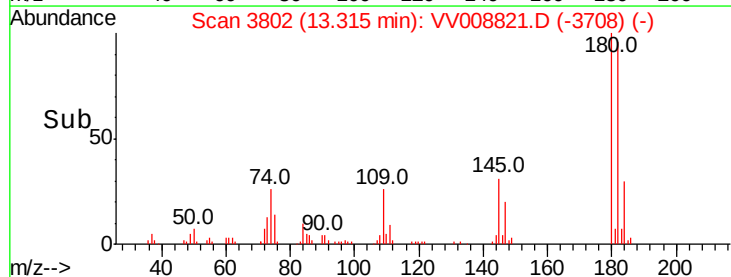


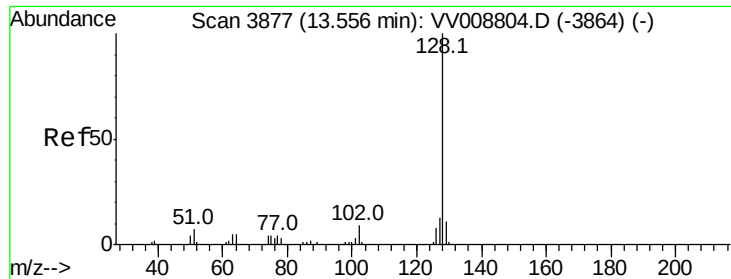
#68
 1,2,4-trichlorobenzene
 Concen: 5.188 ug/L
 RT: 13.31 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV008821.D
 Acq: 30 Nov 2018 18:56

Tgt Ion:180 Resp: 61356
 Ion Ratio Lower Upper
 180 100
 182 95.9 74.2 111.4
 145 31.9 24.1 36.1



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.853 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. -0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

Instrument :

MSVOA_V

ClientSampleId :

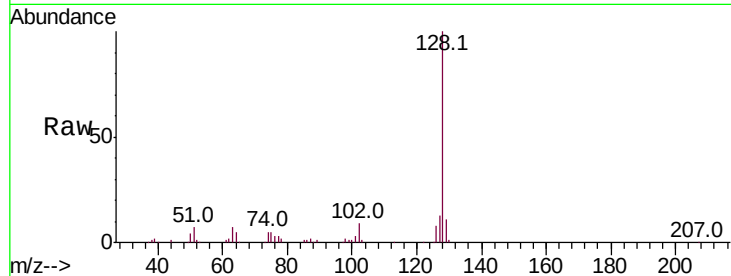
Tot Ion:128 Resp: 83932

Ion Ratio Lower Upper

128 100

129 11.4 8.6 12.8

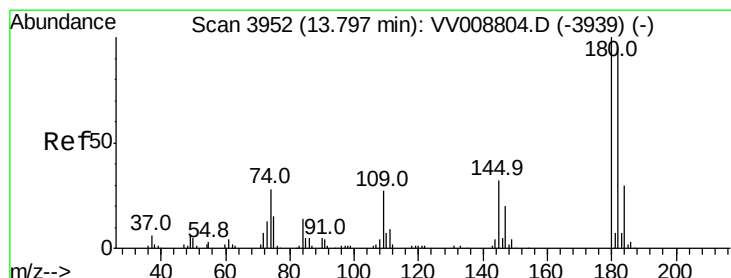
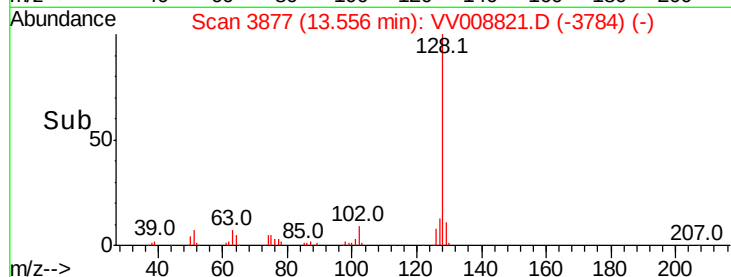
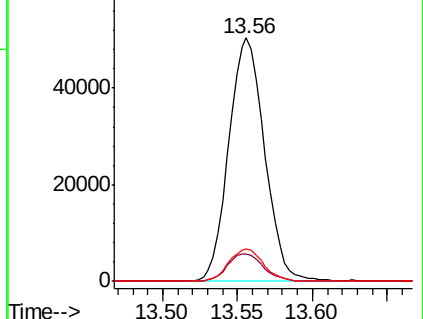
127 13.0 10.1 15.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.298 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. -0.00 min

Lab File: VV008821.D

Acq: 30 Nov 2018 18:56

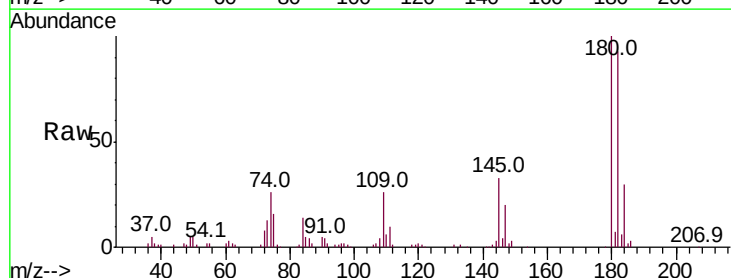
Tgt Ion:180 Resp: 58456

Ion Ratio Lower Upper

180 100

182 92.7 76.2 114.4

145 32.9 27.6 41.4



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

