

Data File : VV011414.D
Acq On : 12 Jun 2019 10:13
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

Quant Time: Jun 13 01:09:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR060419WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jun 12 04:39:23 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	128154	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	119184	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	53550	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	48966	5.04	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	100.80%
7) Chloroethane-d5	1.56	69	42770	5.30	ug/L	-0.01
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.00%
11) 1,1-Dichloroethene-d2	2.12	63	106805	5.50	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	110.00%
20) 2-Butanone-d5	3.95	46	115393	52.78	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.56%
24) Chloroform-d	4.39	84	96601	5.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	113.00%
26) 1,2-Dichloroethane-d4	5.08	65	50831	5.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.00%
32) Benzene-d6	5.09	84	182452	5.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.40%
36) 1,2-Dichloropropane-d6	6.11	67	55010	5.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.20%
41) Toluene-d8	7.35	98	169917	5.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.80%
43) trans-1,3-Dichloropropene-	7.66	79	18402	4.40	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.00%
46) 2-Hexanone-d5	8.13	63	88656	50.12	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.24%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	37234	4.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	55175	5.22	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.40%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	57628	4.560 ug/L	99
3) Chloromethane	1.25	50	56770	4.646 ug/L	99
5) Vinyl chloride	1.32	62	57857	4.907 ug/L	92
6) Bromomethane	1.52	94	22022	3.590 ug/L	98
8) Chloroethane	1.57	64	36818	4.887 ug/L	98
9) Trichlorofluoromethane	1.75	101	83435	5.155 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	46819	5.636 ug/L	97
12) 1,1-Dichloroethene	2.13	96	40891	5.064 ug/L	97
13) Acetone	2.20	43	81746	55.768 ug/L	95
14) Carbon disulfide	2.31	76	103788	4.237 ug/L	98
15) Methyl Acetate	2.46	43	20540	5.276 ug/L	94
16) Methylene chloride	2.53	84	44061	5.296 ug/L	98
17) Methyl tert-butyl Ether	2.81	73	111408	5.169 ug/L	98
18) trans-1,2-Dichloroethene	2.78	96	44799	4.956 ug/L	97
19) 1,1-Dichloroethane	3.22	63	89122	4.998 ug/L	97
21) 2-Butanone	4.03	43	117148	51.896 ug/L	95
22) cis-1,2-Dichloroethene	3.96	96	47577	4.752 ug/L	98

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ClientSampleId :
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Quant Title : TRACE VOA SOM01.0
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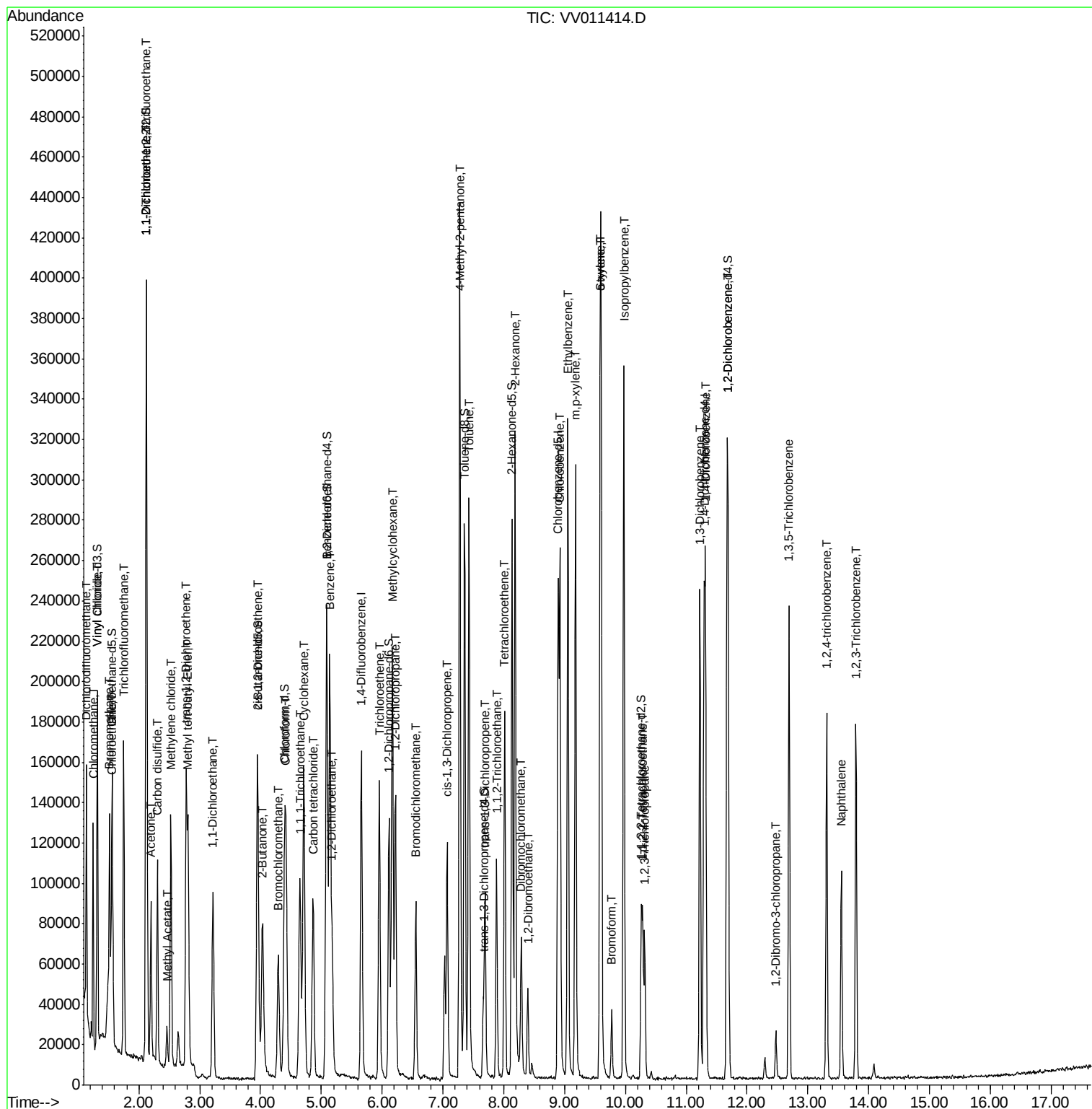
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	18428	4.802	ug/L	95
25) Chloroform	4.42	83	89799	4.876	ug/L	97
27) 1,2-Dichloroethane	5.18	62	58740	5.219	ug/L	100
29) 1,1,1-Trichloroethane	4.65	97	73468	4.833	ug/L	98
30) Cyclohexane	4.71	56	78089	4.633	ug/L	96
31) Carbon tetrachloride	4.87	117	59950	4.719	ug/L	100
33) Benzene	5.14	78	191340	5.045	ug/L	100
34) Trichloroethene	5.95	95	49692	5.072	ug/L	95
35) Methylcyclohexane	6.17	83	75640	4.668	ug/L	99
37) 1,2-Dichloropropane	6.22	63	47850	5.070	ug/L	99
38) Bromodichloromethane	6.55	83	54863	4.701	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	58760	4.255	ug/L	99
40) 4-Methyl-2-pentanone	7.28	43	290560	48.339	ug/L	98
42) Toluene	7.43	91	200683	4.965	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	45817	4.364	ug/L	95
45) 1,1,2-Trichloroethane	7.88	97	30461	5.042	ug/L	97
47) Tetrachloroethene	8.02	164	35676	5.039	ug/L	98
48) 2-Hexanone	8.19	43	203787	48.612	ug/L	98
49) Dibromochloromethane	8.29	129	30375	4.426	ug/L	100
50) 1,2-Dibromoethane	8.40	107	25952	4.519	ug/L	97
51) Chlorobenzene	8.92	112	122213	4.958	ug/L	98
52) Ethylbenzene	9.05	91	220545	4.913	ug/L	98
53) m,p-xylene	9.18	106	81217	4.892	ug/L	100
54) o-xylene	9.59	106	80099	4.917	ug/L	99
55) Styrene	9.60	104	132193	4.982	ug/L	96
56) Isopropylbenzene	9.97	105	214635	4.895	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	36270	4.951	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	26105	4.742	ug/L	98
61) Bromoform	9.77	173	13550	4.212	ug/L	97
62) 1,3-Dichlorobenzene	11.22	146	86127	4.864	ug/L	100
63) 1,4-Dichlorobenzene	11.32	146	88004	5.120	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	84546	5.166	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	5471	4.665	ug/L	89
67) 1,3,5-Trichlorobenzene	12.69	180	63039	4.948	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	48031	4.966	ug/L	96
69) Naphthalene	13.55	128	73836	4.664	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	44883	5.175	ug/L	97

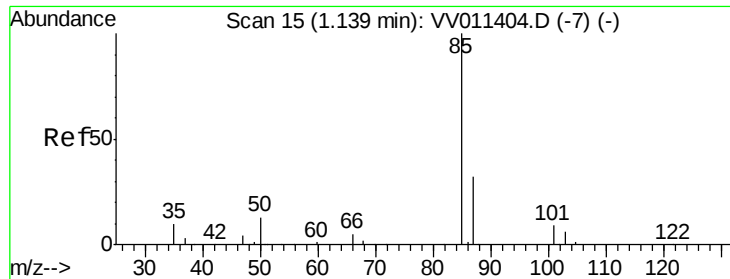
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
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#2

Dichlorodifluoromethane

Concen: 4.560 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

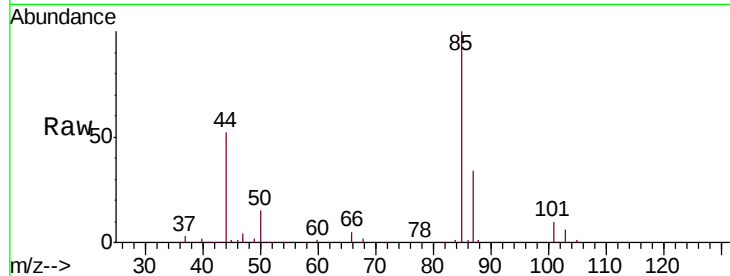
VSTD00548

Tgt Ion: 85 Resp: 57628

Ion Ratio Lower Upper

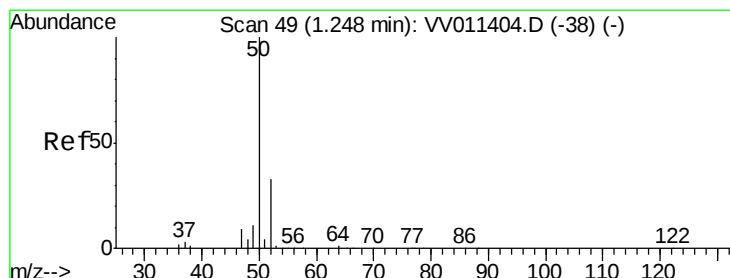
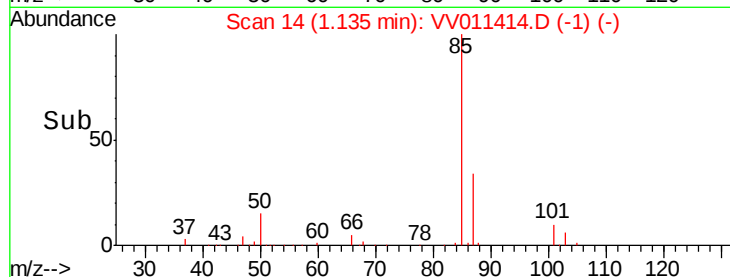
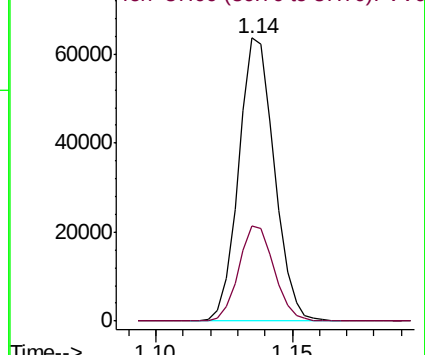
85 100

87 33.5 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 4.646 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV011414.D

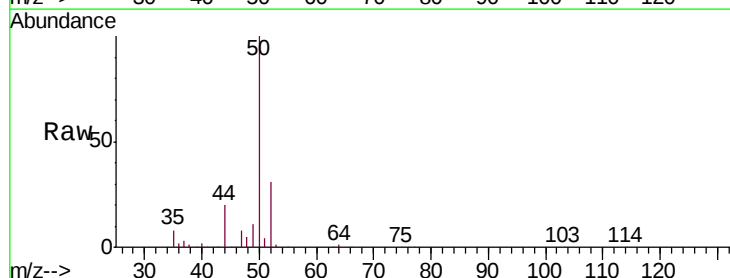
Acq: 12 Jun 2019 10:13

Tgt Ion: 50 Resp: 56770

Ion Ratio Lower Upper

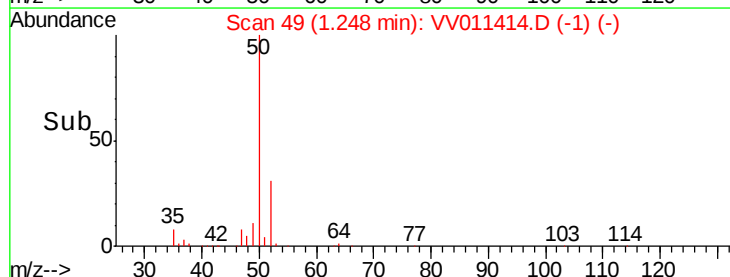
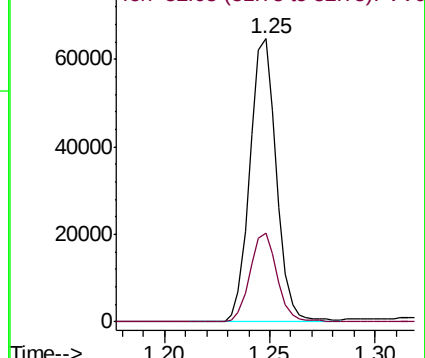
50 100

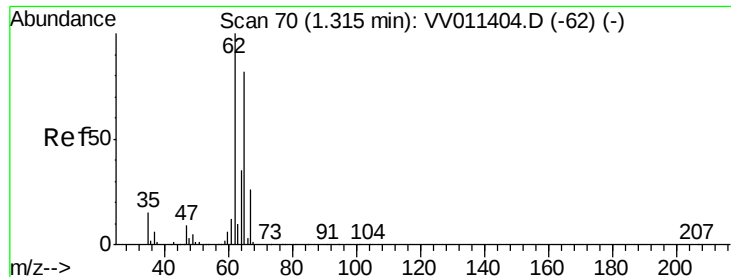
52 31.3 22.3 41.5



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 4.907 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

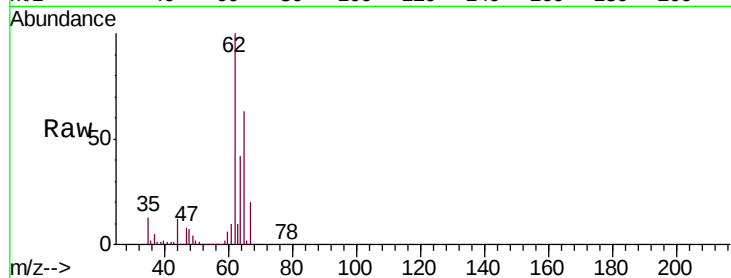
VSTD00548

Tgt Ion: 62 Resp: 57857

Ion Ratio Lower Upper

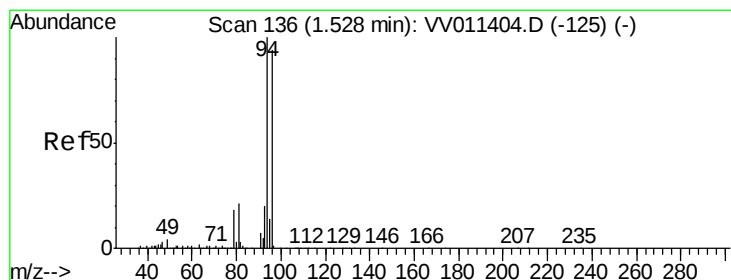
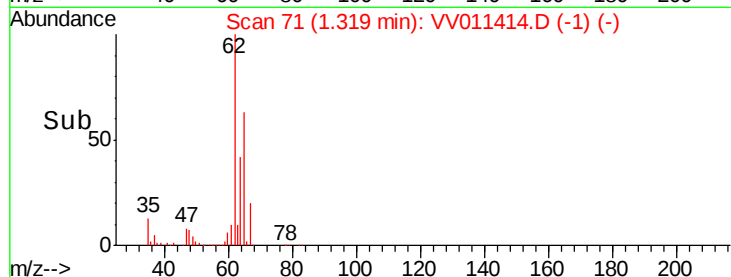
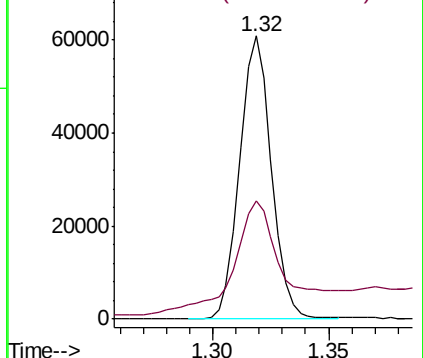
62 100

64 41.8 25.9 48.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 3.590 ug/L

RT: 1.52 min Scan# 133

Delta R.T. -0.01 min

Lab File: VV011414.D

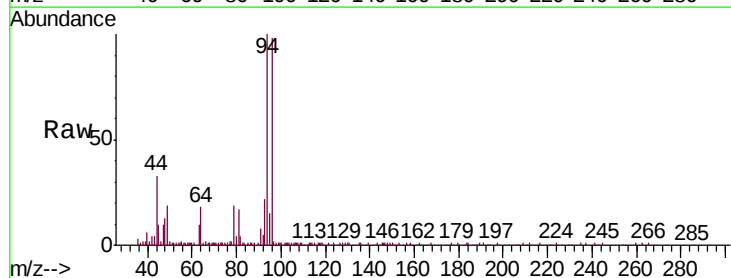
Acq: 12 Jun 2019 10:13

Tgt Ion: 94 Resp: 22022

Ion Ratio Lower Upper

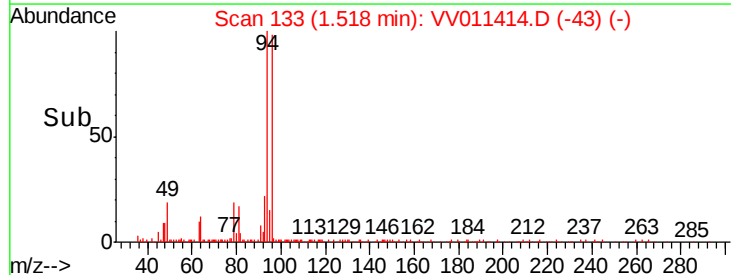
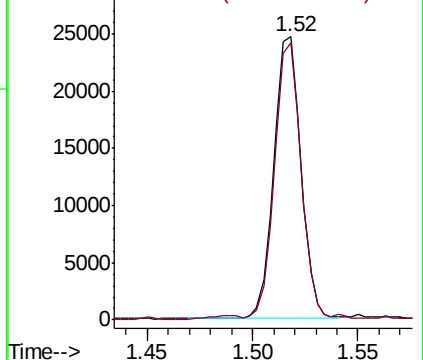
94 100

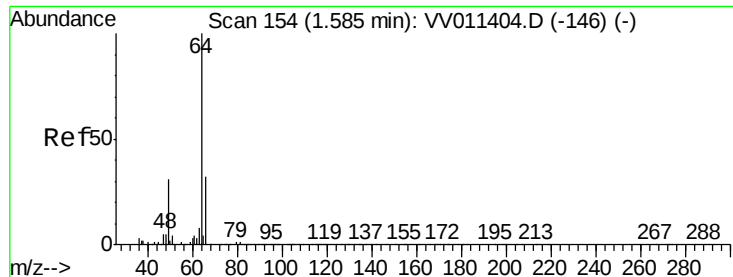
96 97.6 67.0 124.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 4.887 ug/L

RT: 1.57 min Scan# 150

Delta R.T. -0.01 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

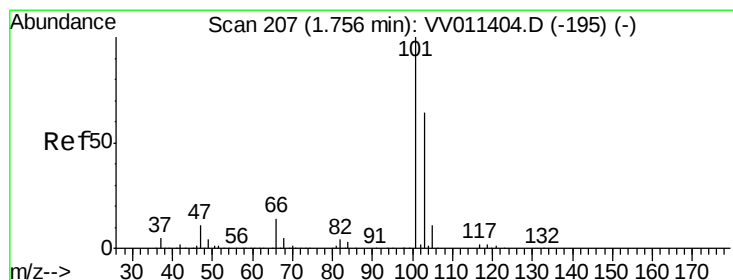
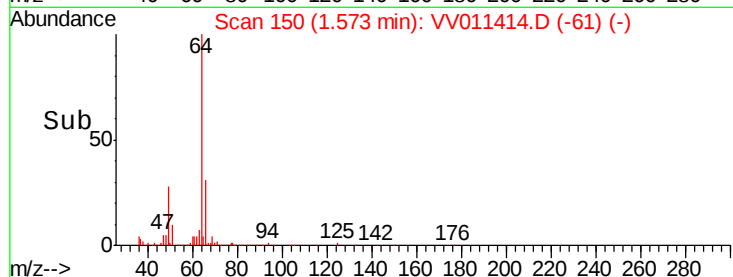
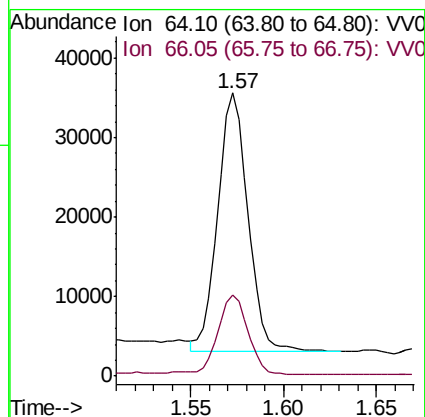
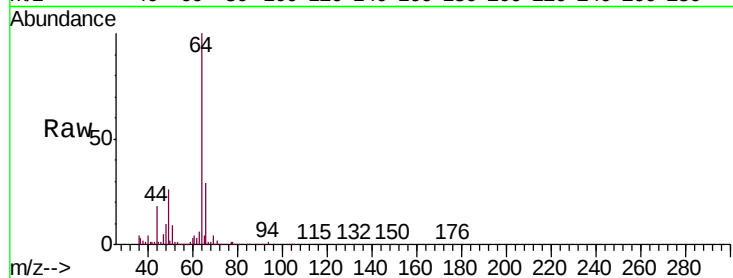
VSTD00548

Tgt Ion: 64 Resp: 36818

Ion Ratio Lower Upper

64 100

66 28.7 19.4 36.0



#9

Trichlorofluoromethane

Concen: 5.155 ug/L

RT: 1.75 min Scan# 205

Delta R.T. -0.01 min

Lab File: VV011414.D

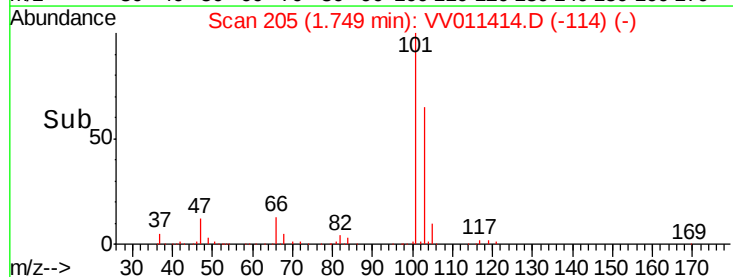
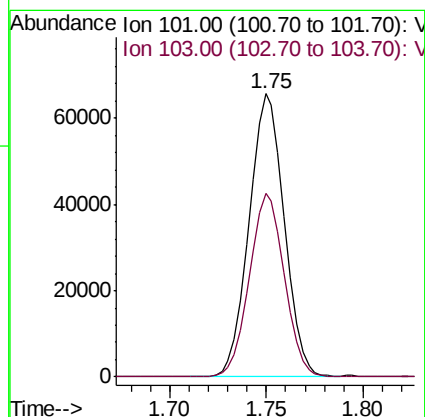
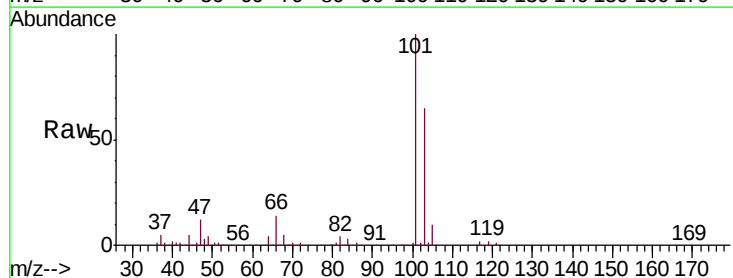
Acq: 12 Jun 2019 10:13

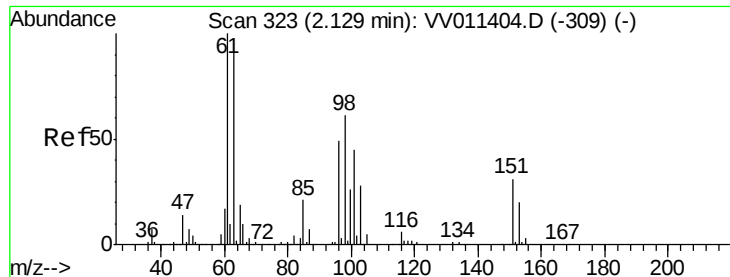
Tgt Ion: 101 Resp: 83435

Ion Ratio Lower Upper

101 100

103 64.3 50.8 76.2





#10

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

Concen: 5.636 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

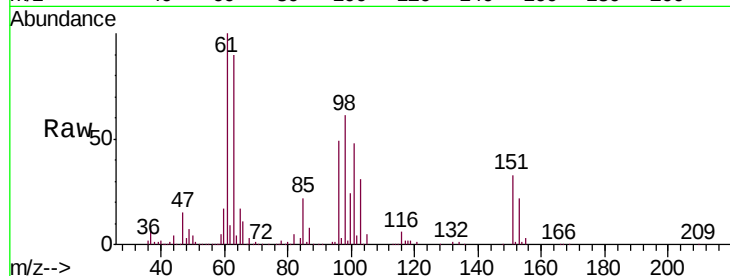
Tgt Ion: 101 Resp: 46819

Ion Ratio Lower Upper

101 100

85 45.1 35.5 53.3

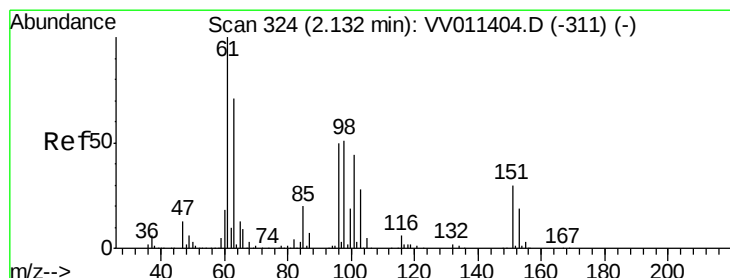
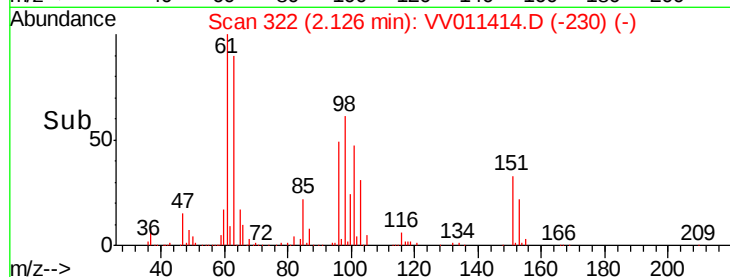
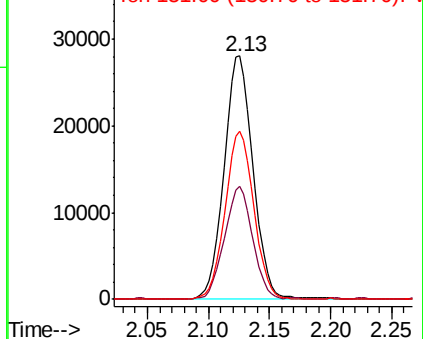
151 68.1 56.9 85.3



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: 5.064 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

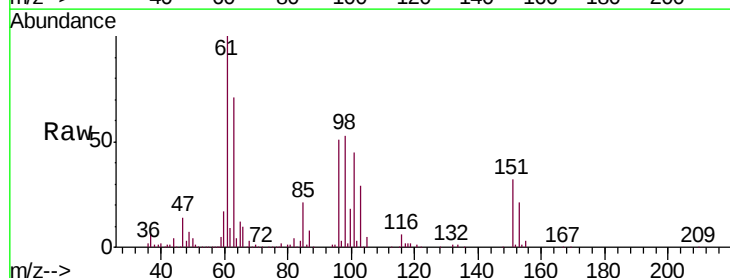
Tgt Ion: 96 Resp: 40891

Ion Ratio Lower Upper

96 100

61 197.5 139.8 259.6

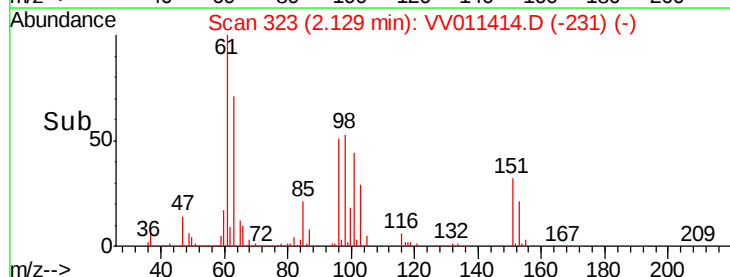
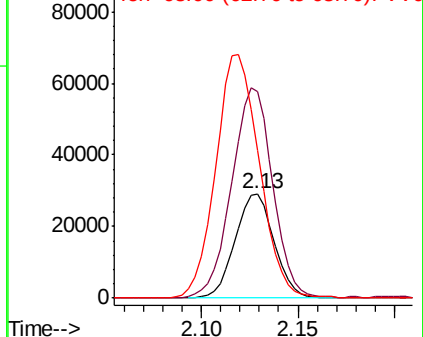
63 141.1 94.3 175.1

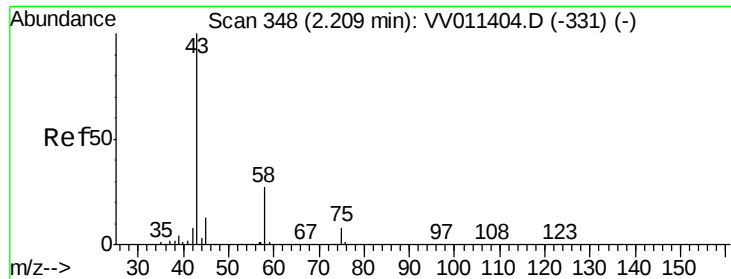


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 55.768 ug/L

RT: 2.20 min Scan# 344

Delta R.T. -0.01 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

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ClientSampleId :

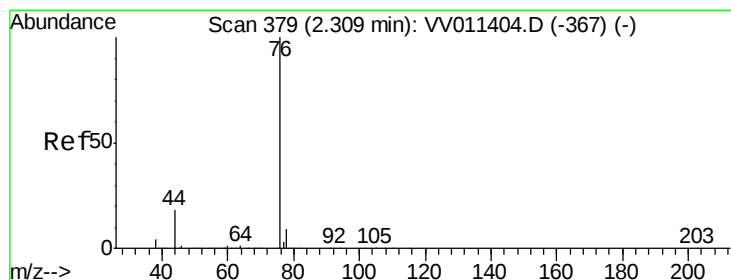
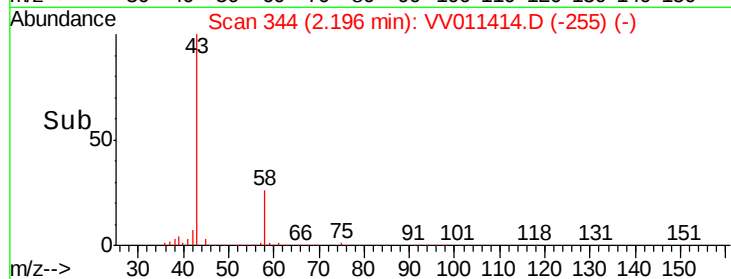
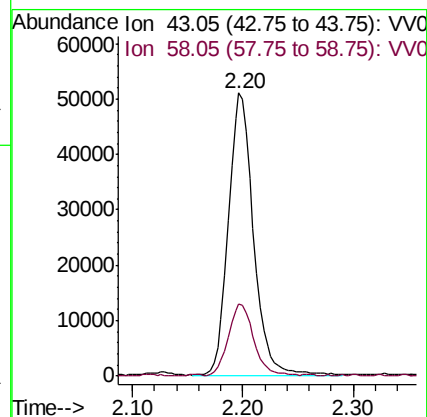
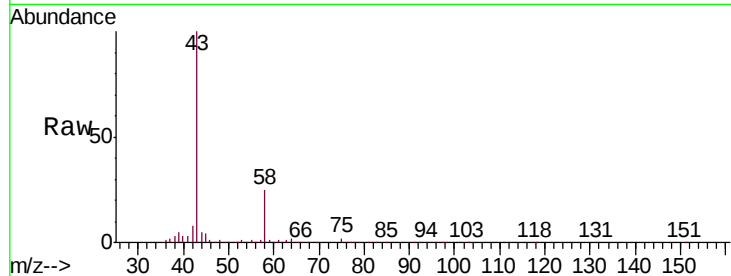
VSTD00548

Tgt Ion: 43 Resp: 81746

Ion Ratio Lower Upper

43 100

58 24.8 0.0 55.2



#14

Carbon disulfide

Concen: 4.237 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VV011414.D

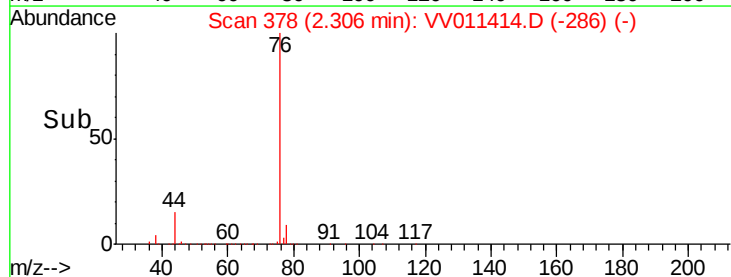
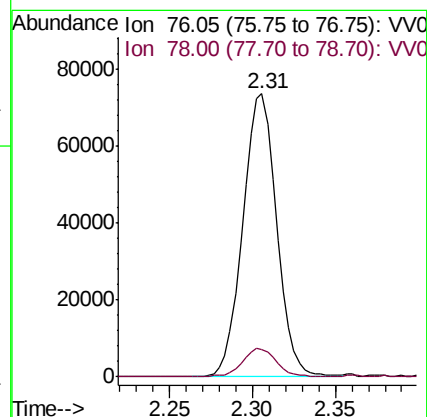
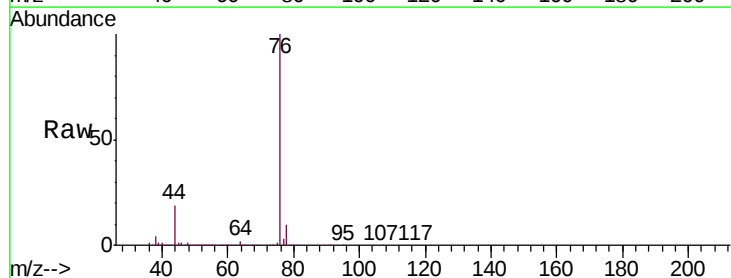
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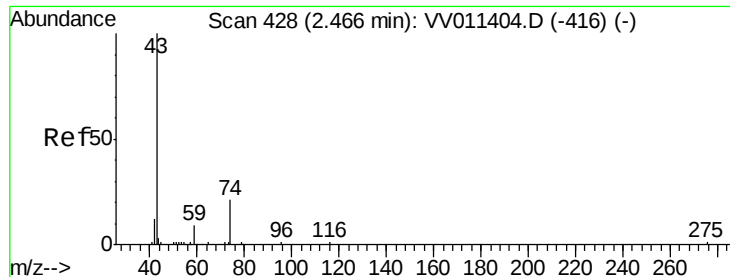
Tgt Ion: 76 Resp: 103788

Ion Ratio Lower Upper

76 100

78 9.8 7.3 10.9





#15

Methyl Acetate

Concen: 5.276 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.01 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

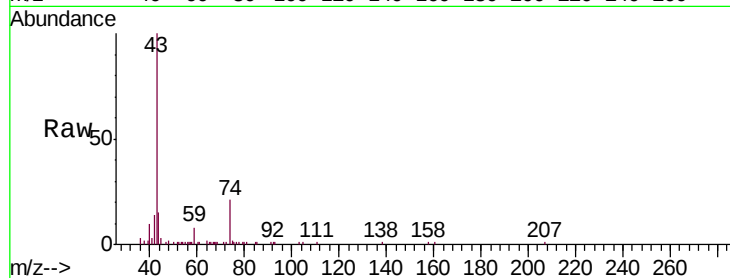
VSTD00548

Tgt Ion: 43 Resp: 20540

Ion Ratio Lower Upper

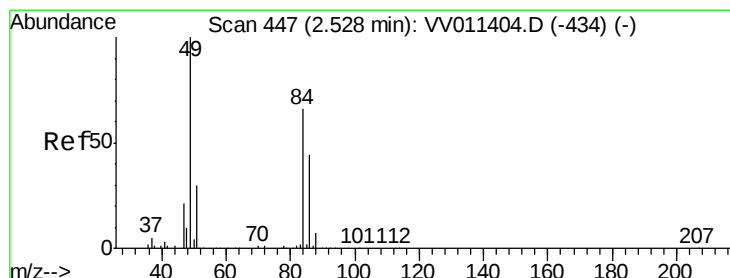
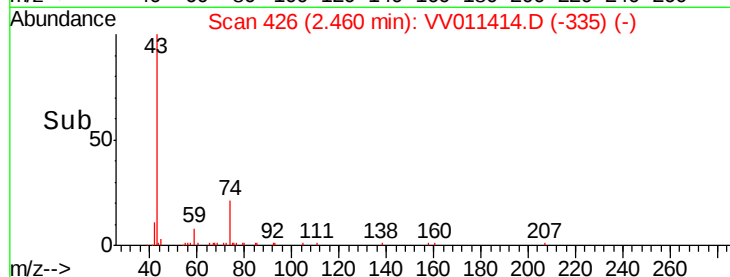
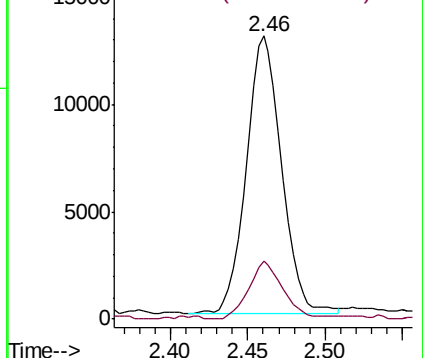
43 100

74 20.2 18.5 27.7



Abundance Ion 43.05 (42.75 to 43.75): VV011414.D (-335) (-)

Ion 74.05 (73.75 to 74.75): VV011414.D (-335) (-)



#16

Methylene chloride

Concen: 5.296 ug/L

RT: 2.53 min Scan# 447

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

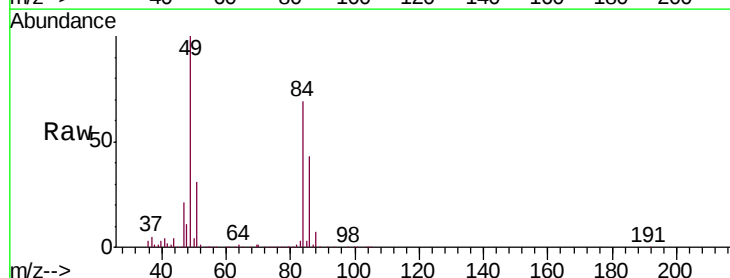
Tgt Ion: 84 Resp: 44061

Ion Ratio Lower Upper

84 100

86 61.5 44.9 83.3

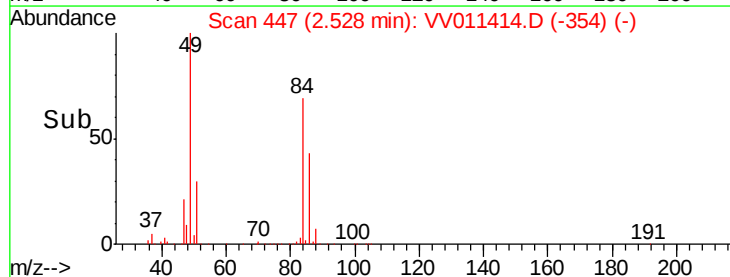
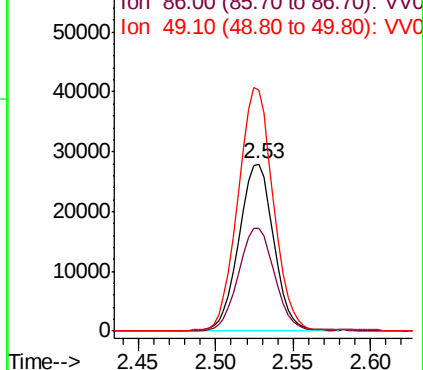
49 144.5 102.1 189.5

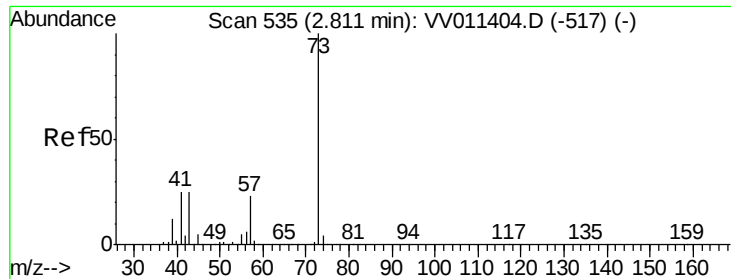


Abundance Ion 84.05 (83.75 to 84.75): VV011414.D (-354) (-)

Ion 86.00 (85.70 to 86.70): VV011414.D (-354) (-)

Ion 49.10 (48.80 to 49.80): VV011414.D (-354) (-)





#17

Methyl tert-butyl Ether

Concen: 5.169 ug/L

RT: 2.81 min Scan# 534

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

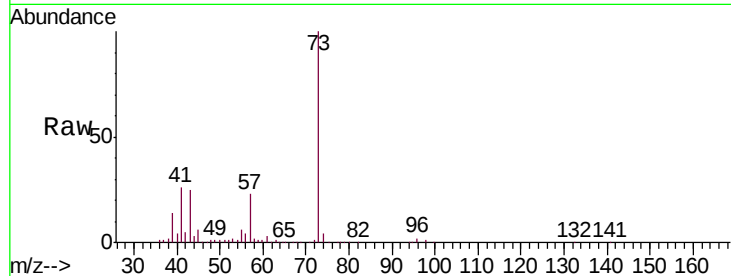
Tgt Ion: 73 Resp: 111408

Ion Ratio Lower Upper

73 100

43 24.3 18.7 28.1

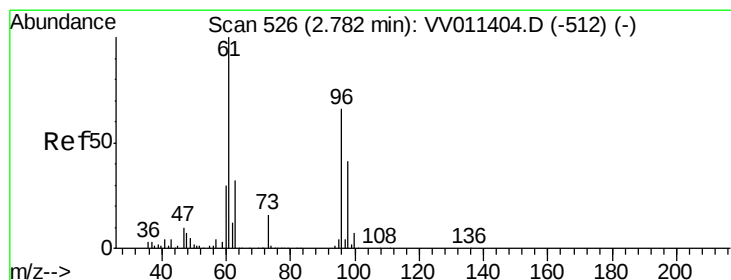
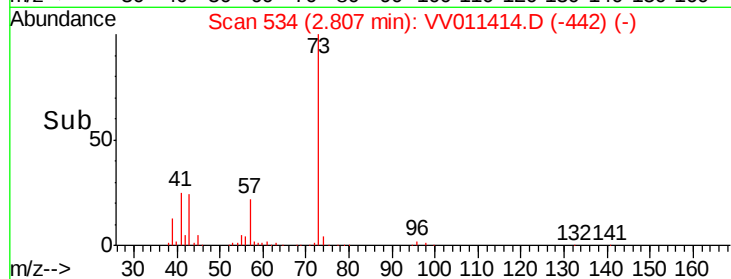
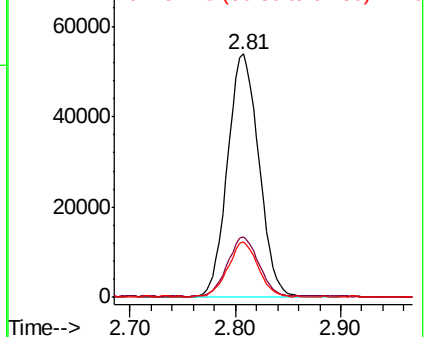
57 21.5 18.1 27.1



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: 4.956 ug/L

RT: 2.78 min Scan# 525

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

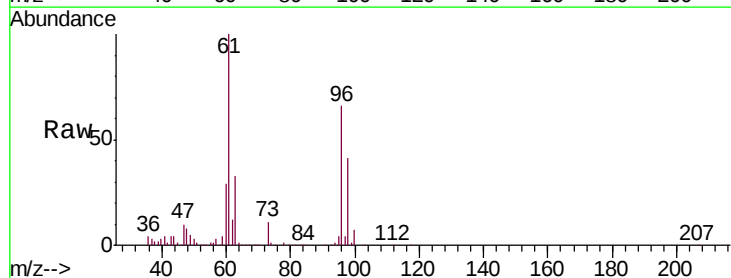
Tgt Ion: 96 Resp: 44799

Ion Ratio Lower Upper

96 100

61 152.5 104.0 193.2

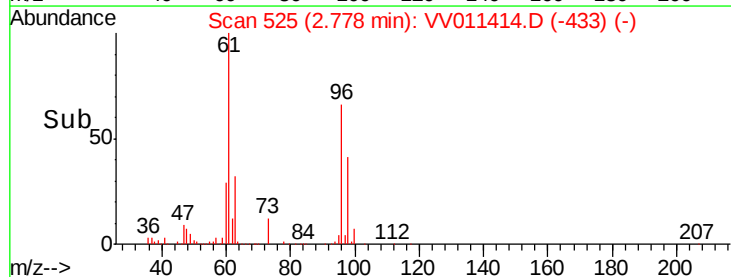
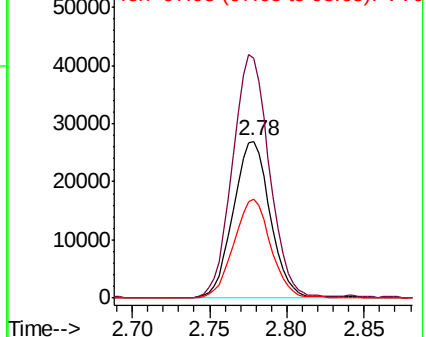
98 62.8 45.7 84.9

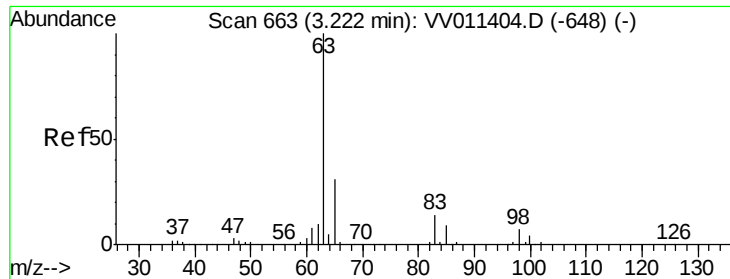


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0

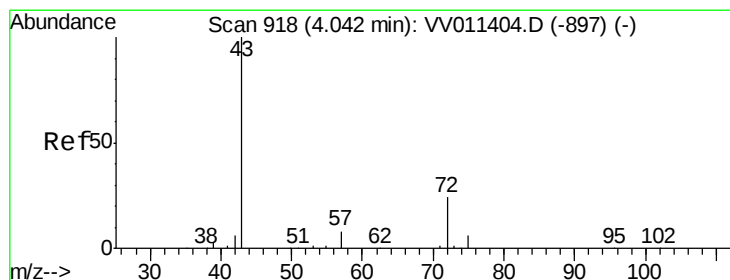
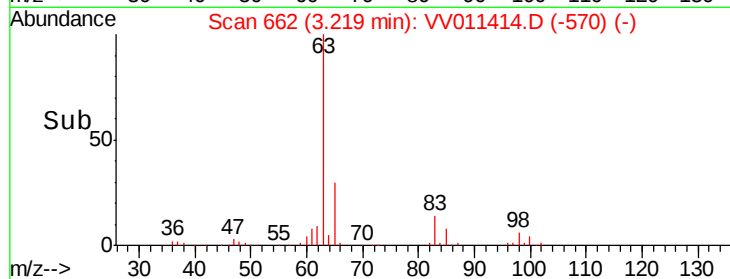
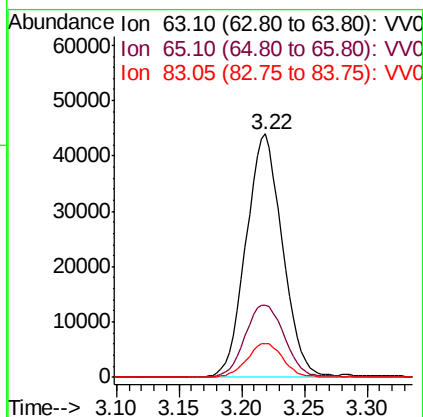
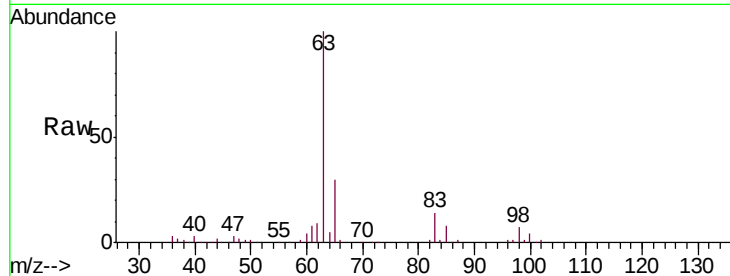




#19
 1,1-Dichloroethane
 Concen: 4.998 ug/L
 RT: 3.22 min Scan# 662
 Delta R.T. -0.00 min
 Lab File: VV011414.D
 Acq: 12 Jun 2019 10:13

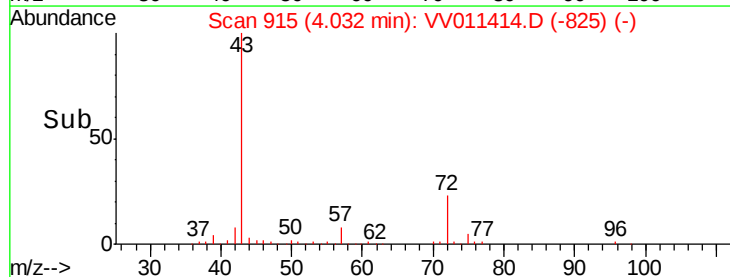
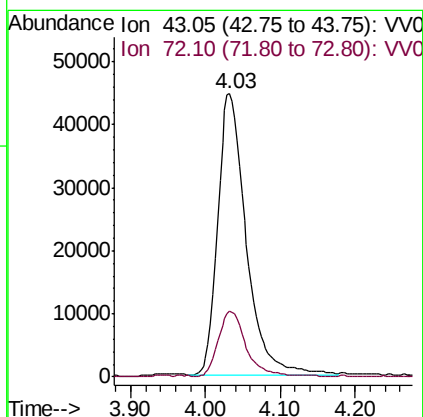
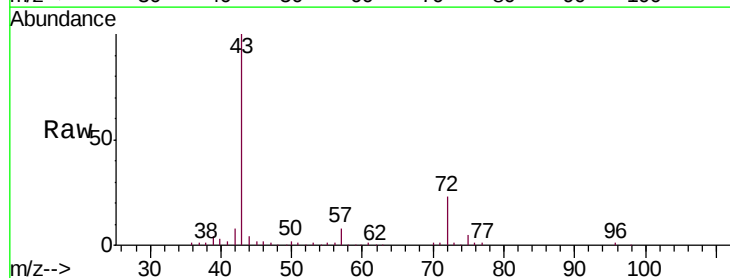
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

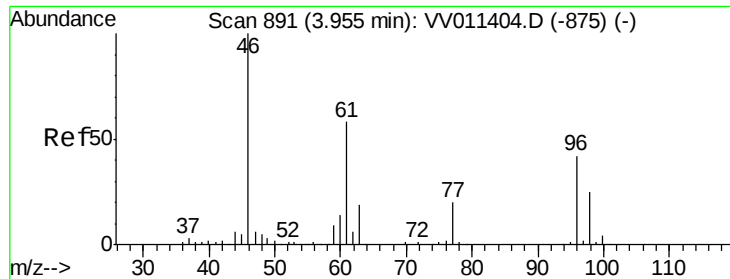
Tgt Ion: 63 Resp: 89122
 Ion Ratio Lower Upper
 63 100
 65 29.7 22.1 41.1
 83 13.7 9.2 17.0



#21
 2-Butanone
 Concen: 51.896 ug/L
 RT: 4.03 min Scan# 915
 Delta R.T. -0.01 min
 Lab File: VV011414.D
 Acq: 12 Jun 2019 10:13

Tgt Ion: 43 Resp: 117148
 Ion Ratio Lower Upper
 43 100
 72 23.1 12.7 38.1



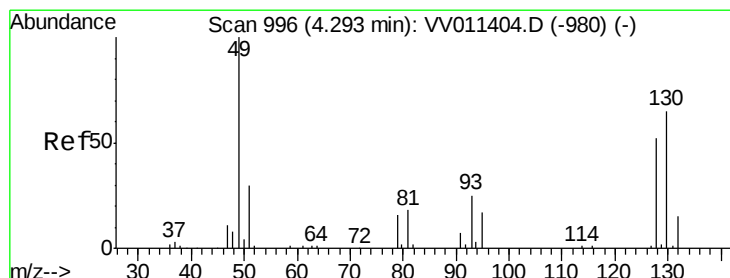
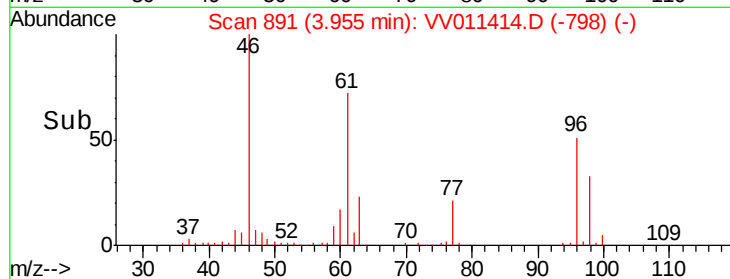
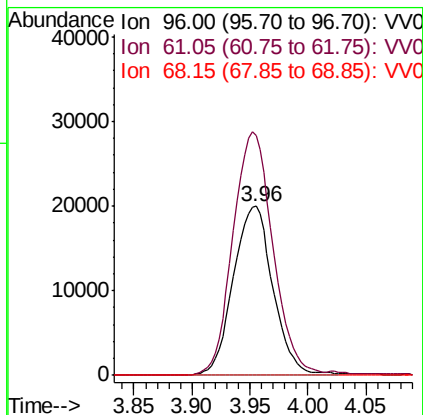
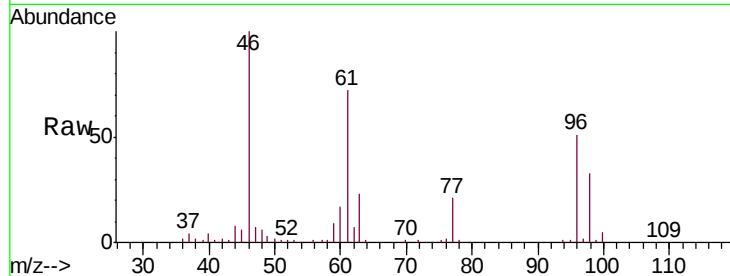


#22

cis-1,2-Dichloroethene
Concen: 4.752 ug/L
RT: 3.96 min Scan# 891
Delta R.T. 0.00 min
Lab File: VV011414.D
Acq: 12 Jun 2019 10:13

Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

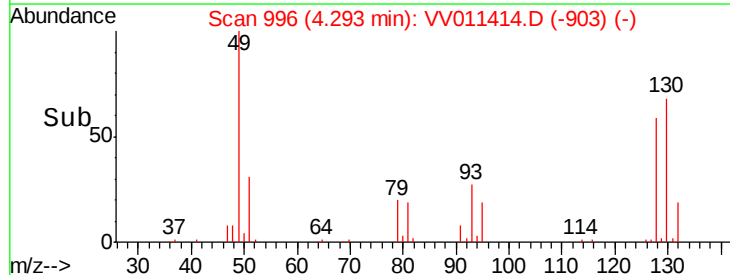
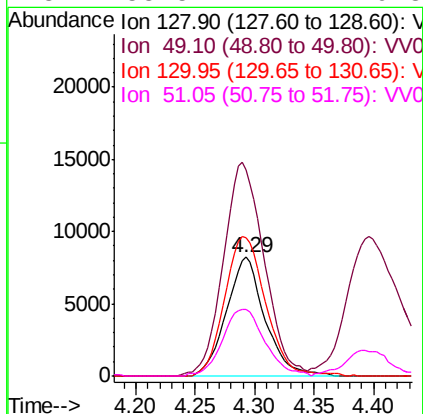
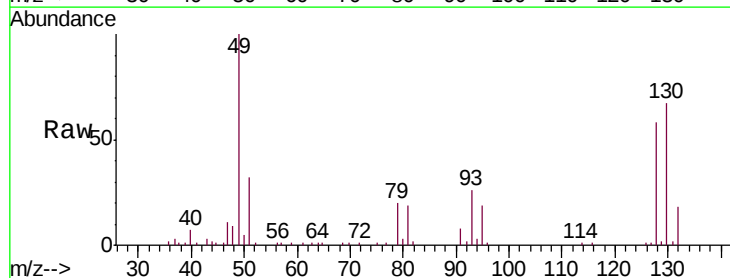
Tgt Ion: 96 Resp: 47577
Ion Ratio Lower Upper
96 100
61 141.5 100.8 187.2
68 0.0 0.0 0.0

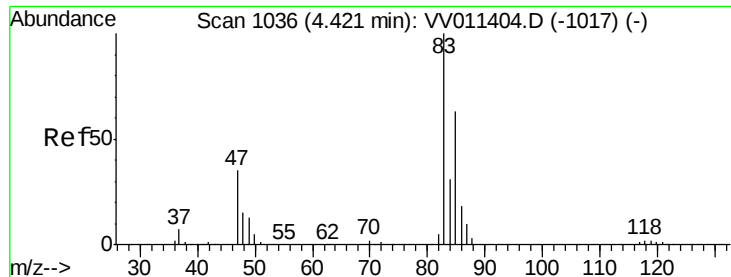


#23

Bromochloromethane
Concen: 4.802 ug/L
RT: 4.29 min Scan# 996
Delta R.T. -0.00 min
Lab File: VV011414.D
Acq: 12 Jun 2019 10:13

Tgt Ion: 128 Resp: 18428
Ion Ratio Lower Upper
128 100
49 172.7 128.9 239.5
130 116.4 82.5 153.1
51 55.5 47.2 70.8

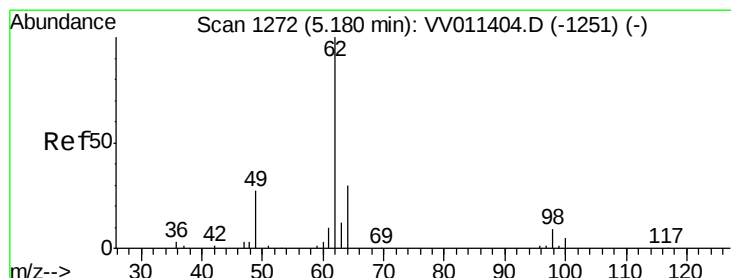
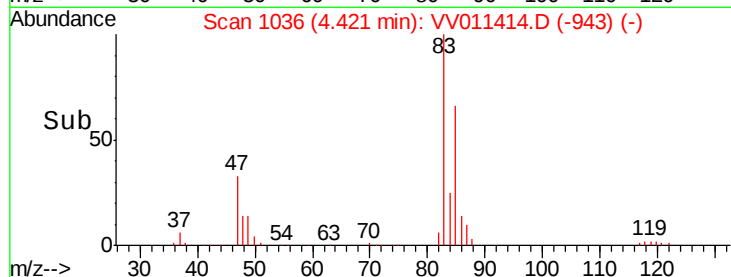
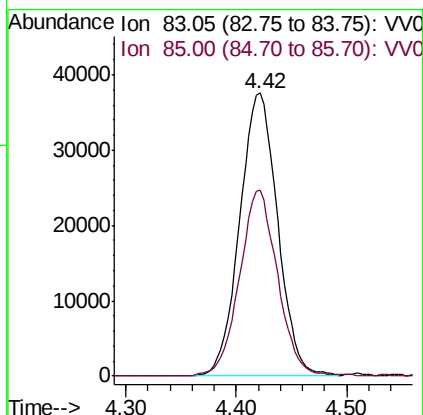
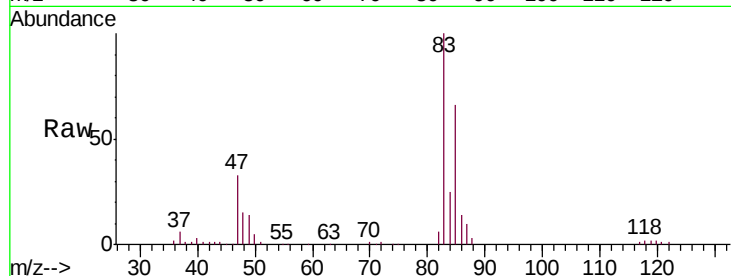




#25
Chloroform
Concen: 4.876 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV011414.D
Acq: 12 Jun 2019 10:13

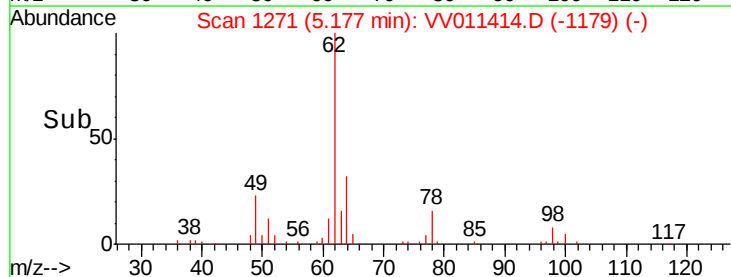
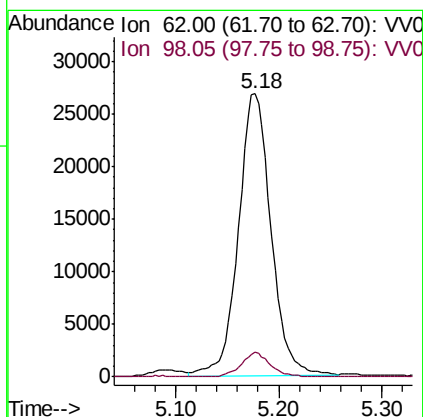
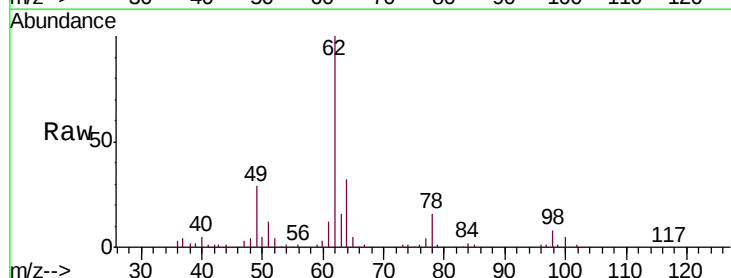
Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

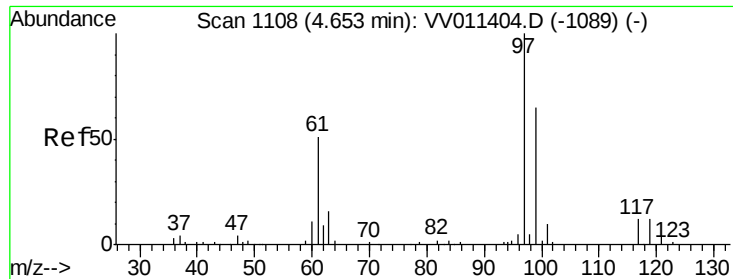
Tgt Ion: 83 Resp: 89799
Ion Ratio Lower Upper
83 100
85 65.6 44.1 81.9



#27
1,2-Dichloroethane
Concen: 5.219 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV011414.D
Acq: 12 Jun 2019 10:13

Tgt Ion: 62 Resp: 58740
Ion Ratio Lower Upper
62 100
98 8.6 6.9 10.3

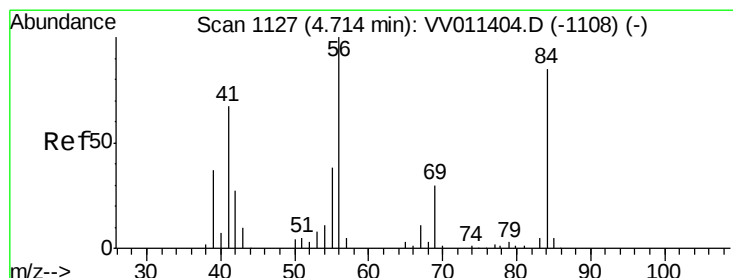
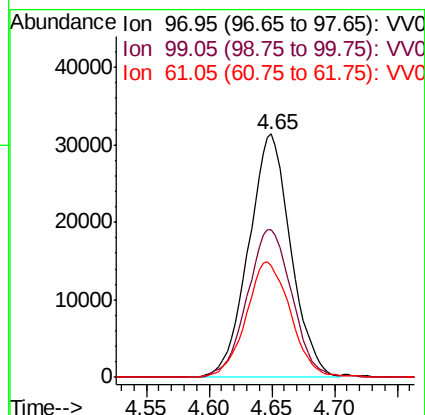
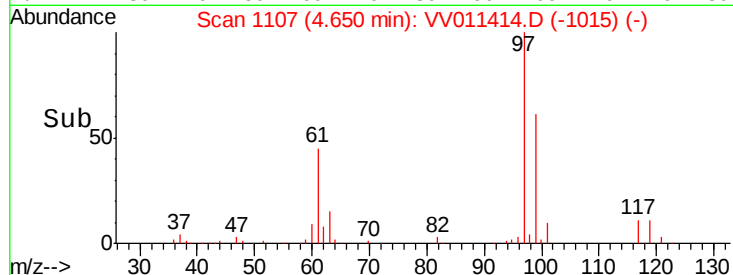
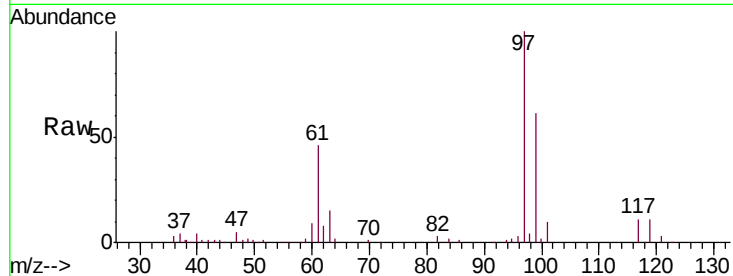




#29
 1,1,1-Trichloroethane
 Concen: 4.833 ug/L
 RT: 4.65 min Scan# 1107
 Delta R.T. -0.00 min
 Lab File: VV011414.D
 Acq: 12 Jun 2019 10:13

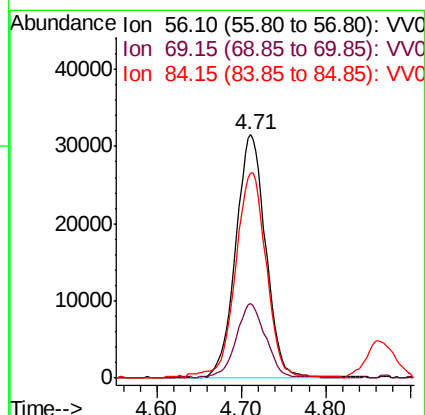
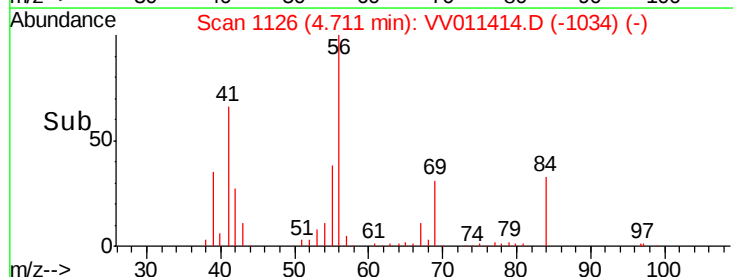
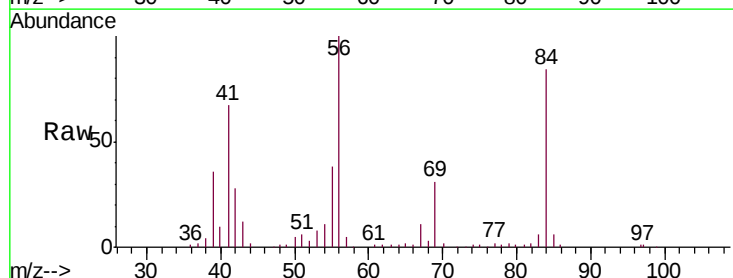
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

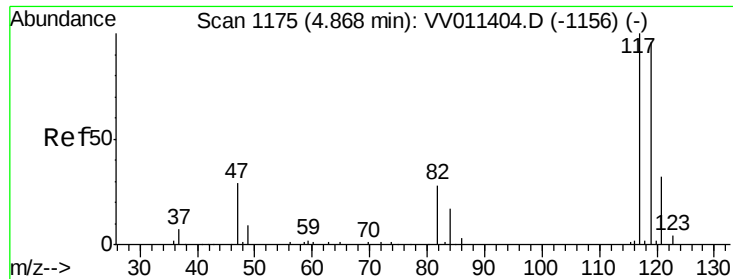
Tgt Ion: 97 Resp: 73468
 Ion Ratio Lower Upper
 97 100
 99 64.6 50.8 76.2
 61 50.1 38.9 58.3



#30
 Cyclohexane
 Concen: 4.633 ug/L
 RT: 4.71 min Scan# 1126
 Delta R.T. -0.00 min
 Lab File: VV011414.D
 Acq: 12 Jun 2019 10:13

Tgt Ion: 56 Resp: 78089
 Ion Ratio Lower Upper
 56 100
 69 29.0 24.1 36.1
 84 87.0 66.4 99.6





#31

Carbon tetrachloride

Concen: 4.719 ug/L

RT: 4.87 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

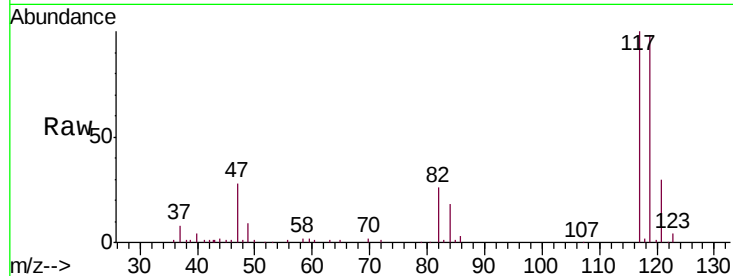
VSTD00548

Tgt Ion:117 Resp: 59950

Ion Ratio Lower Upper

117 100

119 97.7 77.9 116.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.87

25000

20000

15000

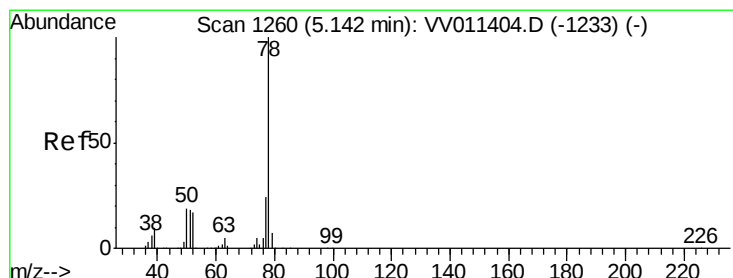
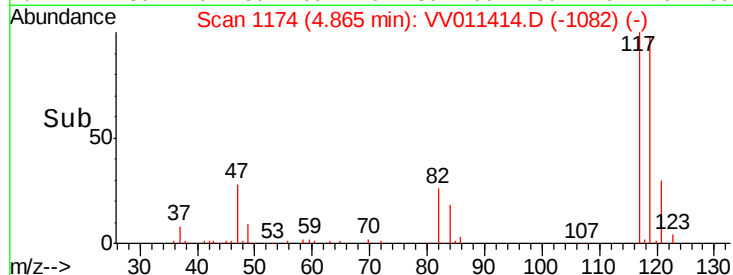
10000

5000

0

Time-->

4.75 4.80 4.85 4.90 4.95



#33

Benzene

Concen: 5.045 ug/L

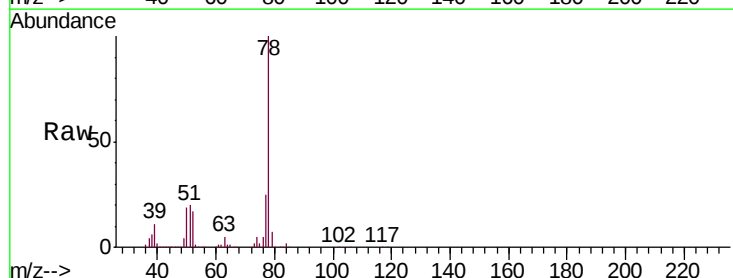
RT: 5.14 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Tgt Ion: 78 Resp: 191340



Abundance Ion 78.10 (77.80 to 78.80): VV0

5.14

100000

80000

60000

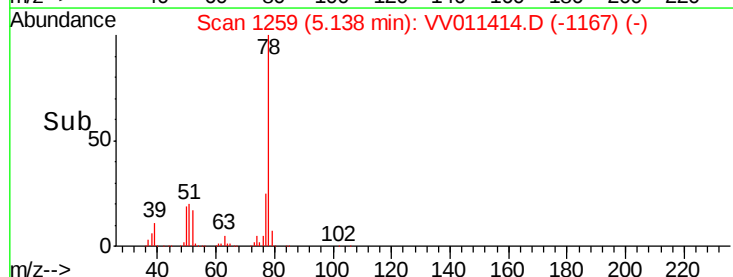
40000

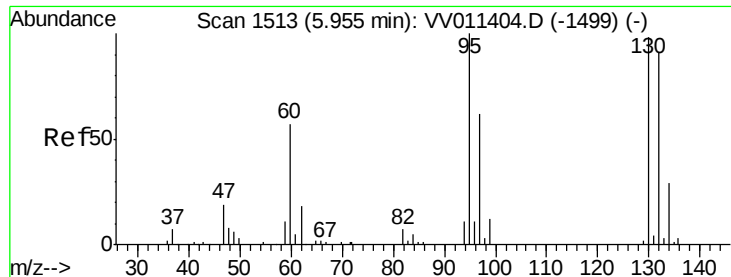
20000

0

Time-->

5.00 5.10 5.20





#34

Trichloroethene

Concen: 5.072 ug/L

RT: 5.95 min Scan# 1512

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

Tgt Ion: 95 Resp: 49692

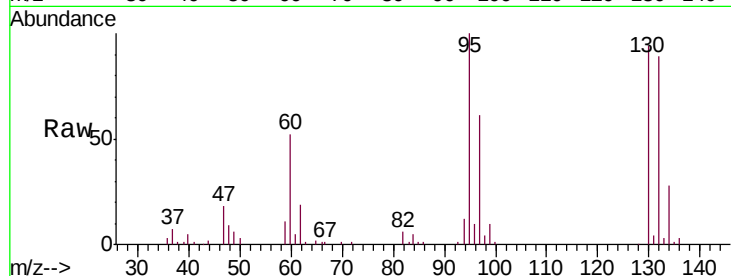
Ion Ratio Lower Upper

95 100

97 61.4 45.8 85.2

132 88.8 66.4 123.2

130 94.0 68.3 126.8



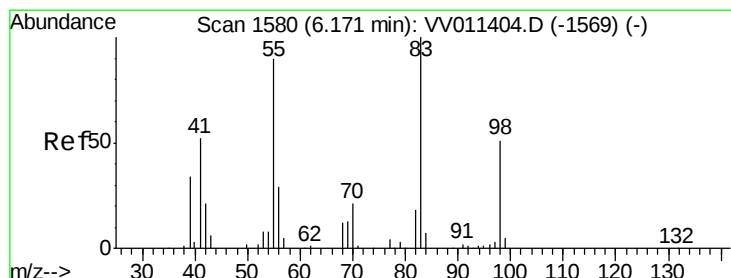
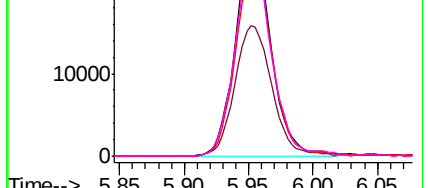
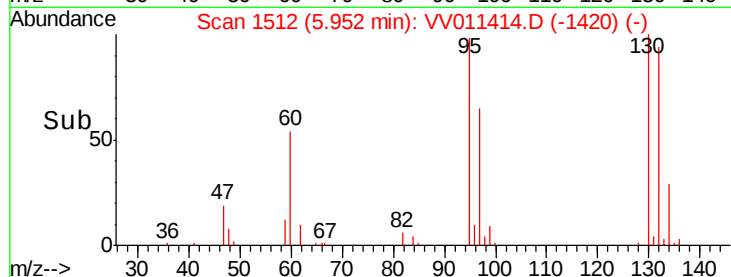
Abundance Ion 95.00 (94.70 to 95.70): VV011414.D (-1499) (-)

Ion 96.95 (96.65 to 97.65): VV011414.D (-1499) (-)

Ion 131.95 (131.65 to 132.65): VV011414.D (-1499) (-)

Ion 129.95 (129.65 to 130.65): VV011414.D (-1499) (-)

Time-->



#35

Methylcyclohexane

Concen: 4.668 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

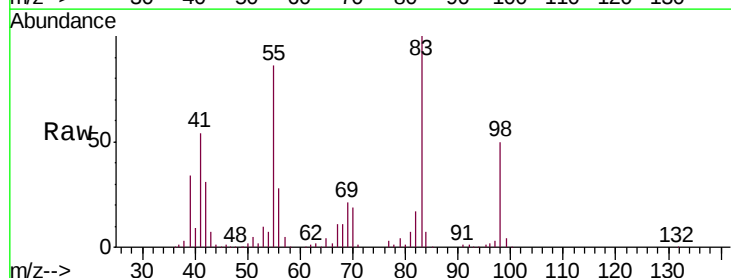
Tgt Ion: 83 Resp: 75640

Ion Ratio Lower Upper

83 100

55 85.1 67.0 100.6

98 50.5 40.0 60.0

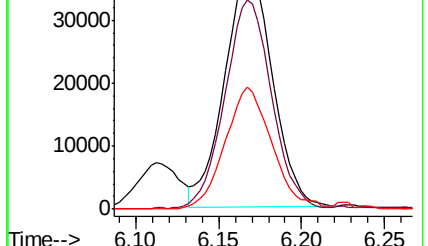
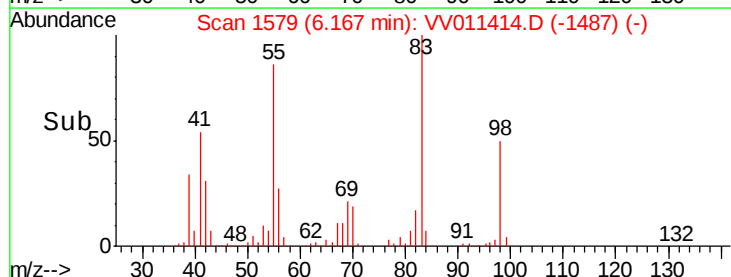


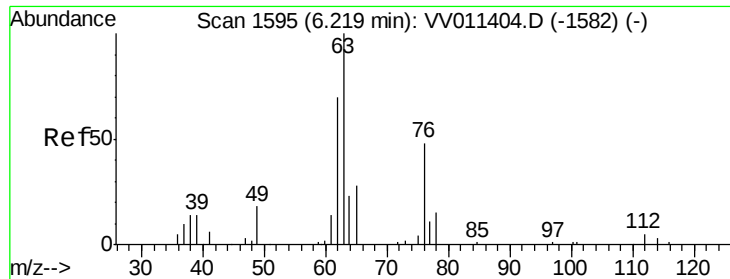
Abundance Ion 83.15 (82.85 to 83.85): VV011414.D (-1569) (-)

Ion 55.10 (54.80 to 55.80): VV011414.D (-1569) (-)

Ion 98.15 (97.85 to 98.85): VV011414.D (-1569) (-)

Time-->

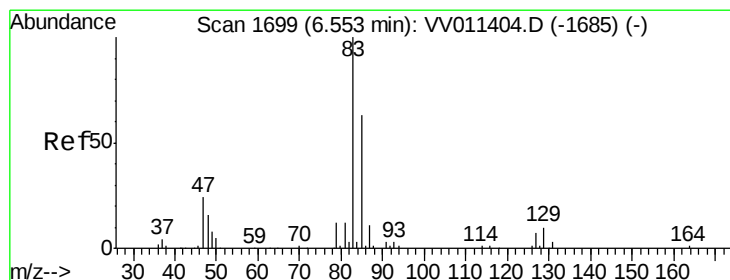
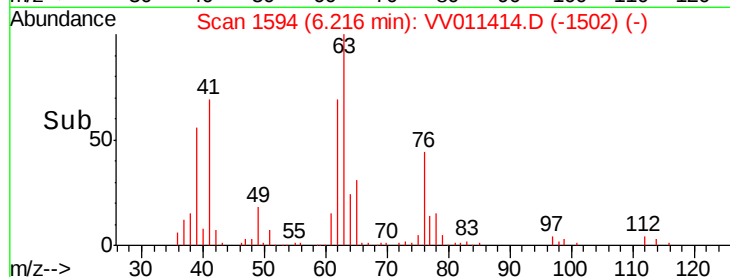
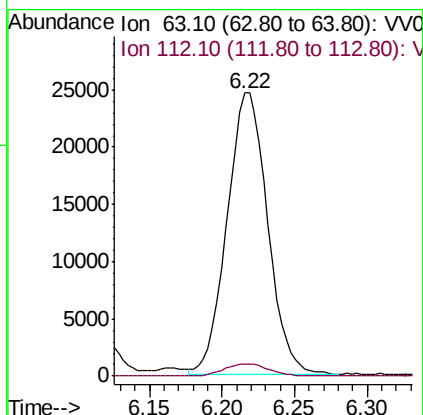
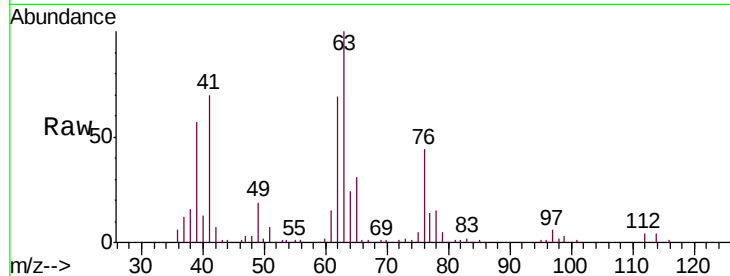




#37
 1,2-Dichloropropane
 Concen: 5.070 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV011414.D
 Acq: 12 Jun 2019 10:13

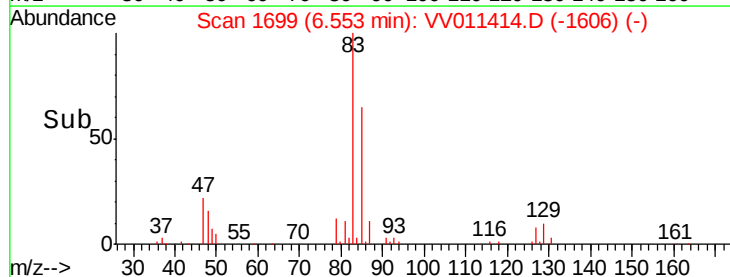
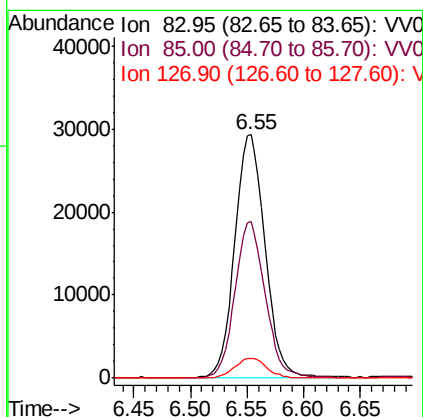
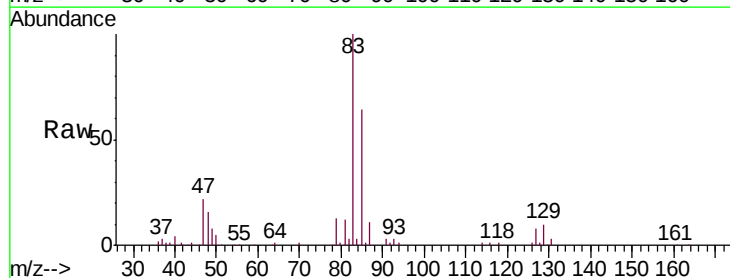
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00548

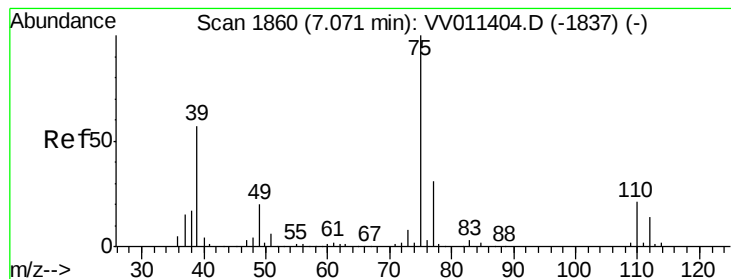
Tgt Ion: 63 Resp: 47850
 Ion Ratio Lower Upper
 63 100
 112 4.7 3.6 5.4



#38
 Bromodichloromethane
 Concen: 4.701 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV011414.D
 Acq: 12 Jun 2019 10:13

Tgt Ion: 83 Resp: 54863
 Ion Ratio Lower Upper
 83 100
 85 64.1 44.5 82.7
 127 8.1 7.0 10.4



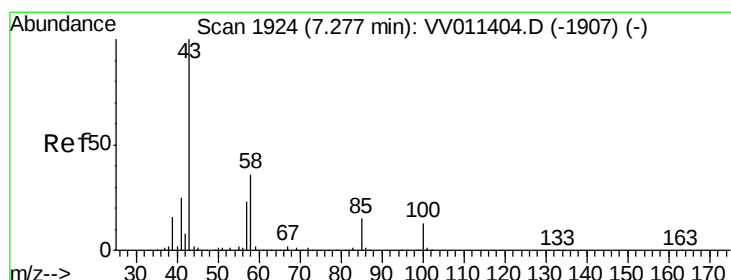
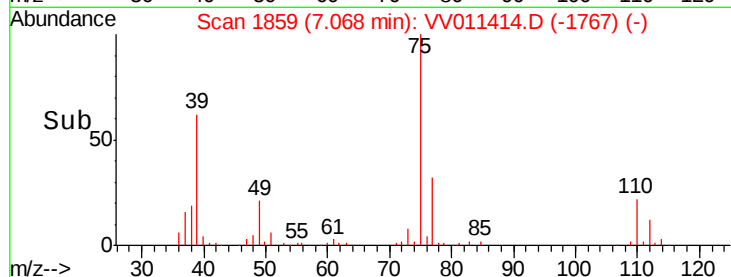
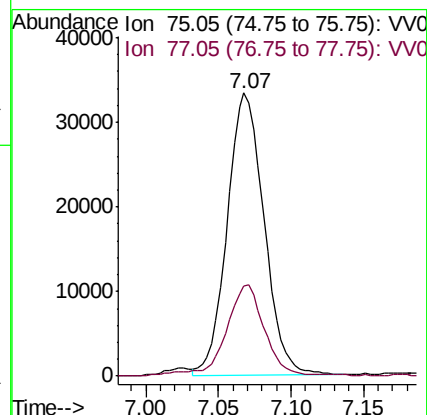
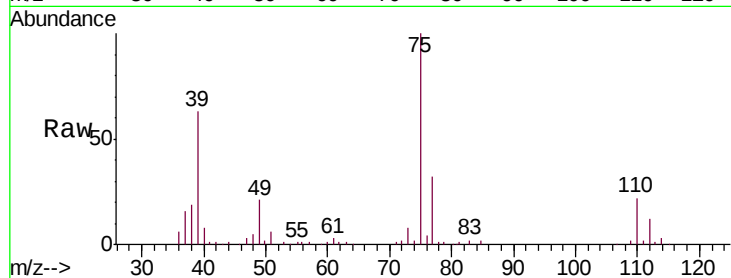


#39

cis-1,3-Dichloropropene
Concen: 4.255 ug/L
RT: 7.07 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VV011414.D
Acq: 12 Jun 2019 10:13

Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

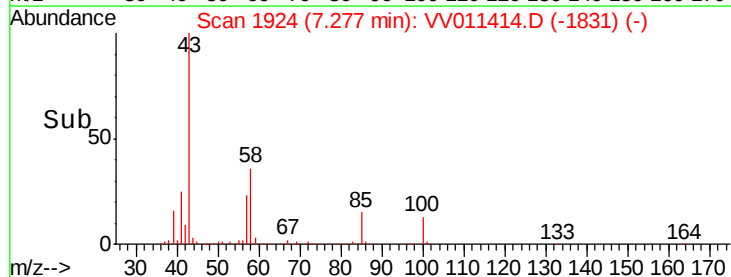
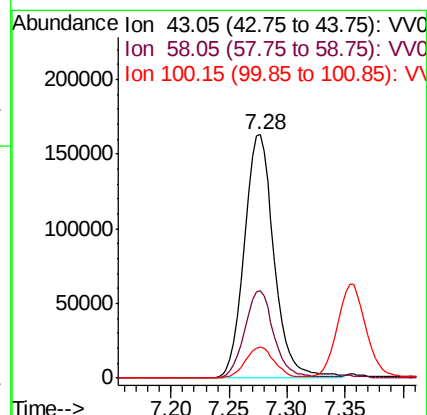
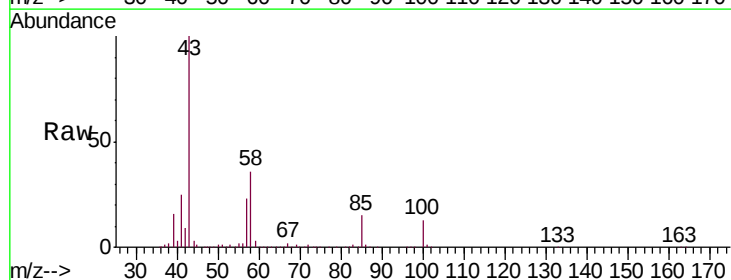
Tgt Ion: 75 Resp: 58760
Ion Ratio Lower Upper
75 100
77 32.0 22.2 41.2

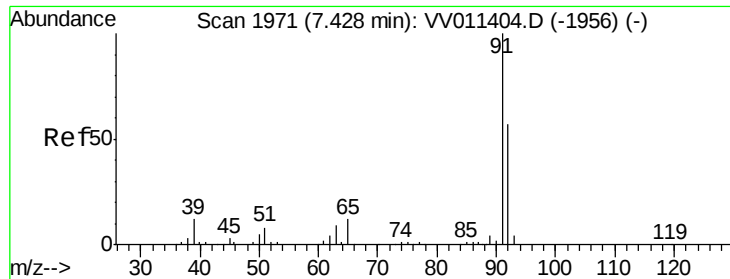


#40

4-Methyl-2-pentanone
Concen: 48.339 ug/L
RT: 7.28 min Scan# 1924
Delta R.T. -0.00 min
Lab File: VV011414.D
Acq: 12 Jun 2019 10:13

Tgt Ion: 43 Resp: 290560
Ion Ratio Lower Upper
43 100
58 35.3 29.3 43.9
100 12.7 10.6 16.0





#42

Toluene

Concen: 4.965 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

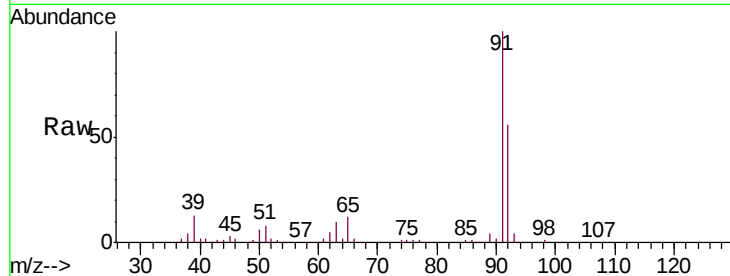
VSTD00548

Tgt Ion: 91 Resp: 200683

Ion Ratio Lower Upper

91 100

92 56.3 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.43

120000

100000

80000

60000

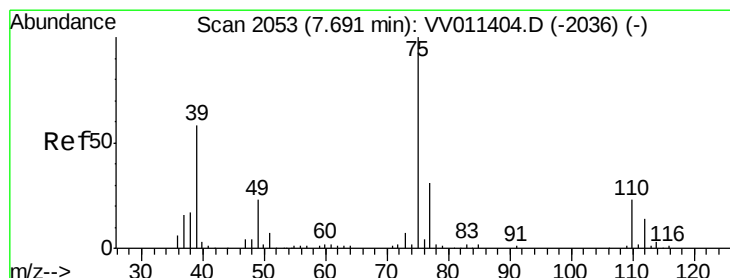
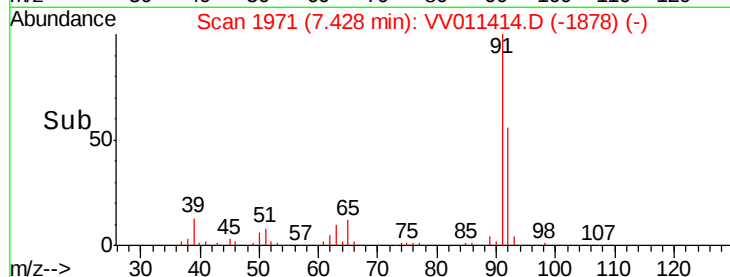
40000

20000

0

7.40 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.364 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV011414.D

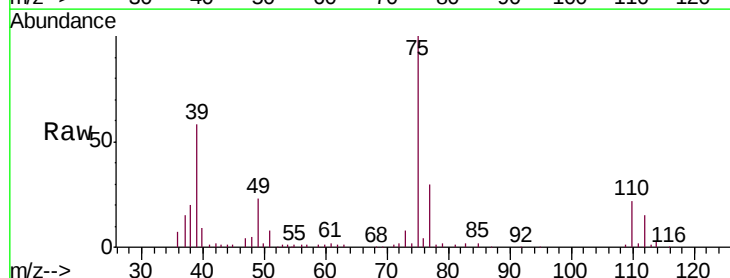
Acq: 12 Jun 2019 10:13

Tgt Ion: 75 Resp: 45817

Ion Ratio Lower Upper

75 100

77 30.2 23.1 42.9



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.69

30000

25000

20000

15000

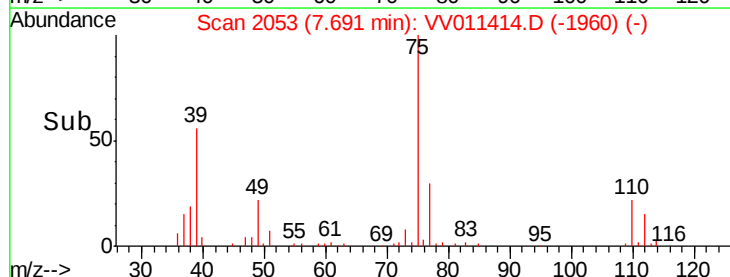
10000

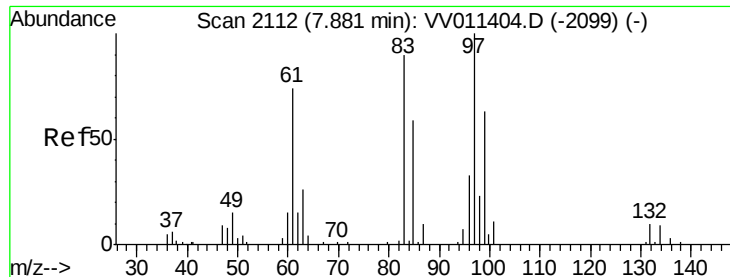
5000

0

7.60 7.65 7.70 7.75 7.80

Time-->

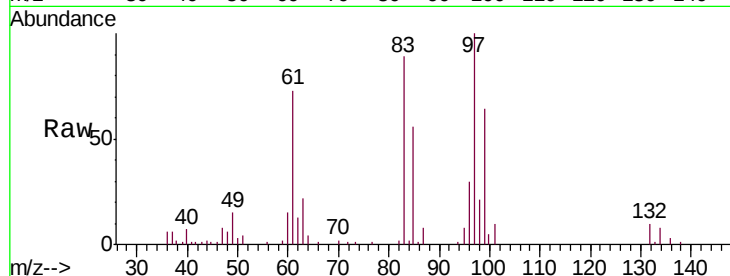




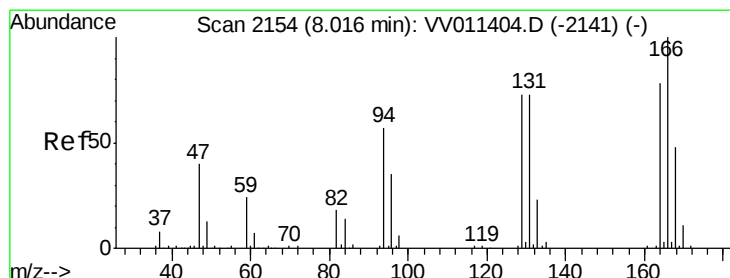
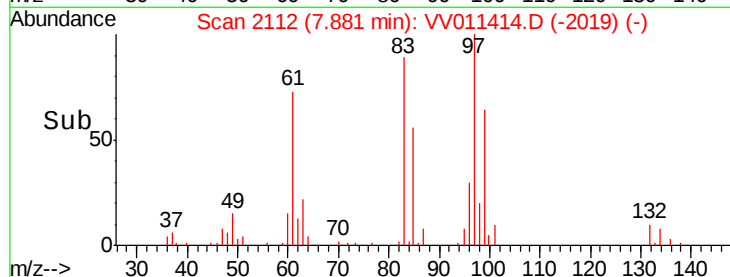
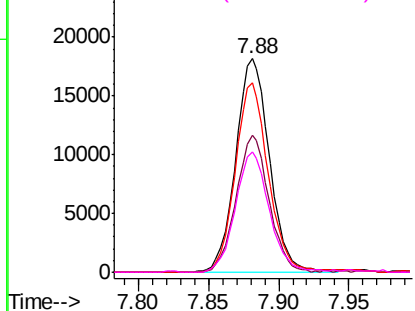
#45
 1,1,2-Trichloroethane
 Concen: 5.042 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV011414.D
 Acq: 12 Jun 2019 10:13

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00548

Tgt Ion:	97	Resp:	30461
Ion	Ratio	Lower	Upper
97	100		
99	63.9	42.1	78.3
83	88.7	59.4	110.2
85	56.3	39.7	73.7

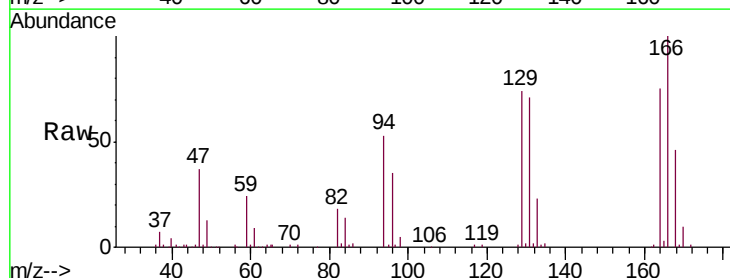


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

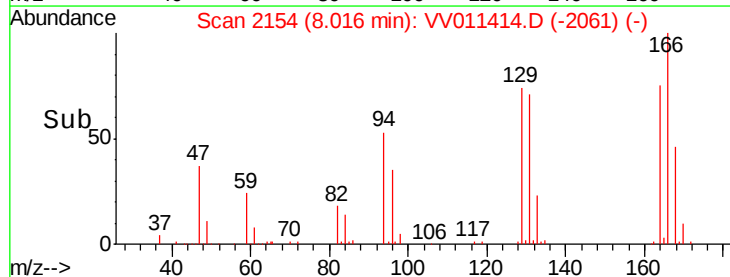
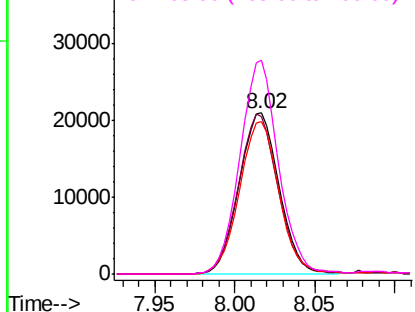


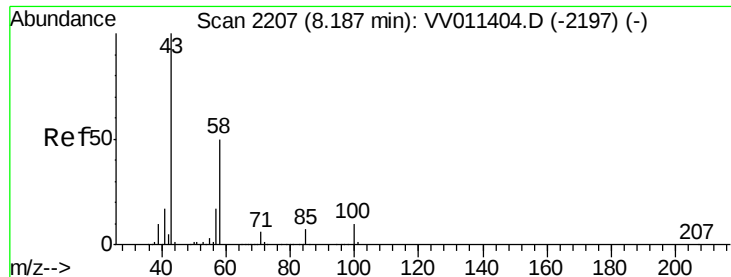
#47
 Tetrachloroethene
 Concen: 5.039 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV011414.D
 Acq: 12 Jun 2019 10:13

Tgt Ion:	164	Resp:	35676
Ion	Ratio	Lower	Upper
164	100		
129	98.3	69.9	129.9
131	94.9	66.8	124.2
166	132.8	90.2	167.6



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

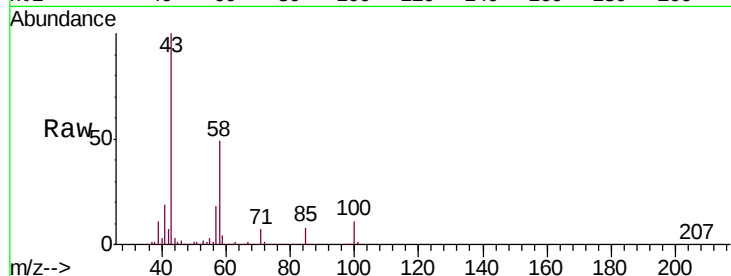




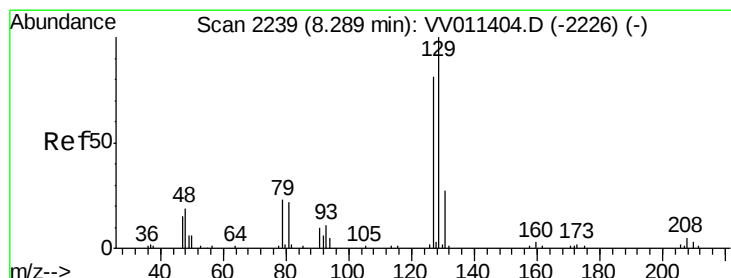
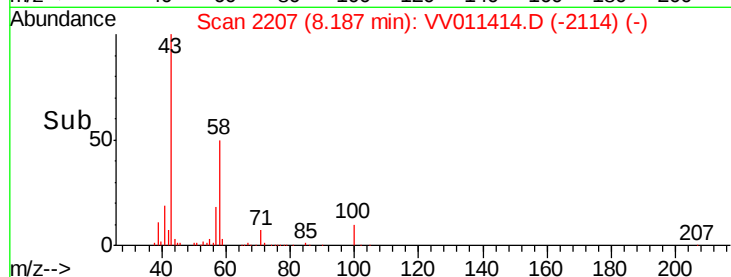
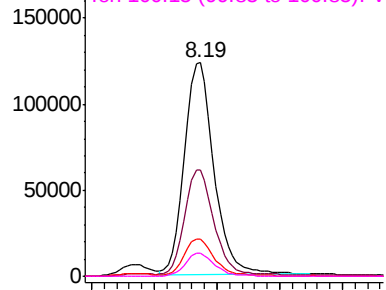
#48
2-Hexanone
Concen: 48.612 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. -0.00 min
Lab File: VV011414.D
Acq: 12 Jun 2019 10:13

Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

Tgt Ion:	43	Resp:	203787
Ion	Ratio	Lower	Upper
43	100		
58	49.7	41.4	62.0
57	17.5	15.0	22.4
100	10.9	9.0	13.4

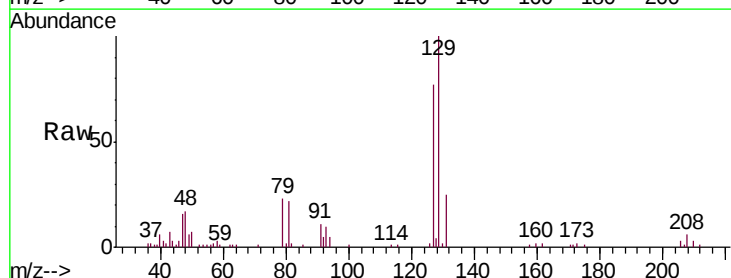


Abundance Ion 43.05 (42.75 to 43.75): VV011414.D (-2197) (-)
Ion 58.05 (57.75 to 58.75): VV011414.D (-2197) (-)
Ion 57.20 (56.90 to 57.90): VV011414.D (-2197) (-)
Ion 100.15 (99.85 to 100.85): VV011414.D (-2197) (-)

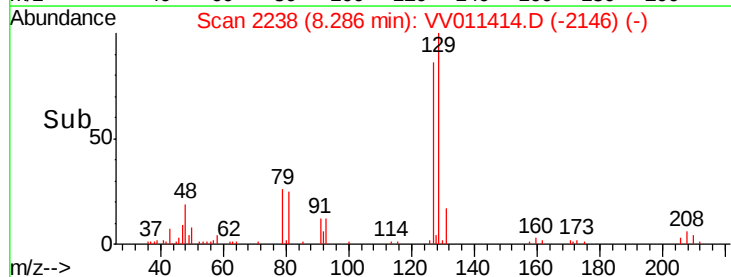
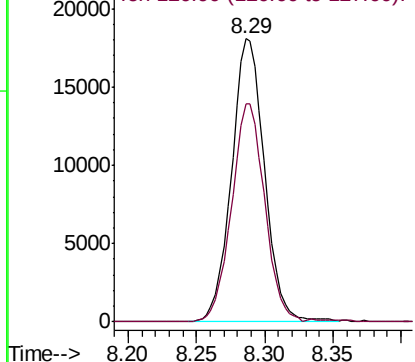


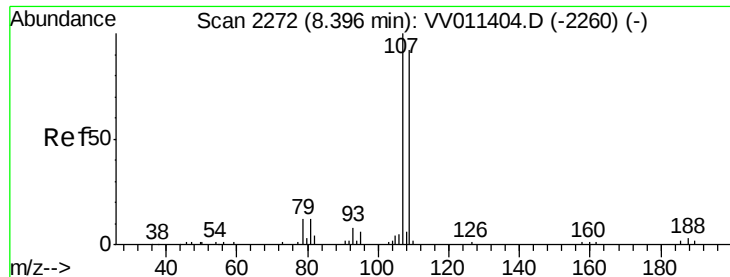
#49
Dibromochloromethane
Concen: 4.426 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV011414.D
Acq: 12 Jun 2019 10:13

Tgt Ion:	129	Resp:	30375
Ion	Ratio	Lower	Upper
129	100		
127	76.9	53.7	99.7



Abundance Ion 128.95 (128.65 to 129.65): VV011414.D (-2226) (-)
Ion 126.90 (126.60 to 127.60): VV011414.D (-2226) (-)

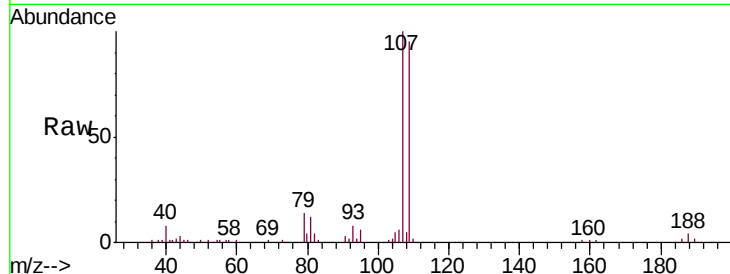




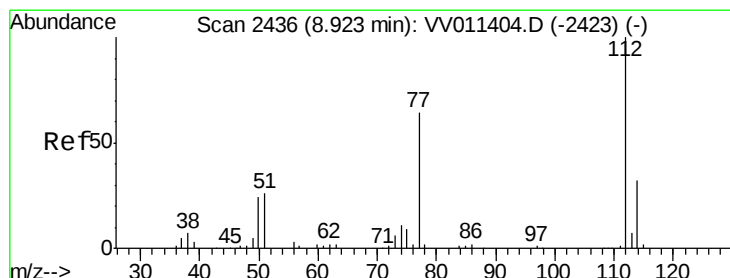
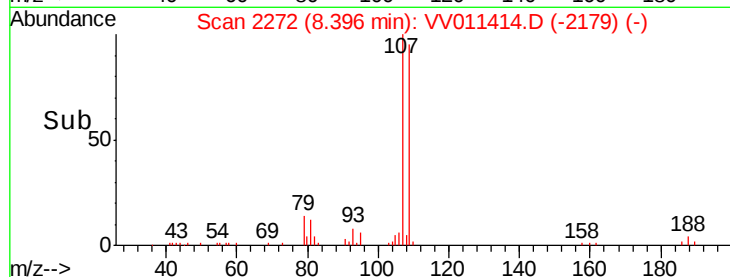
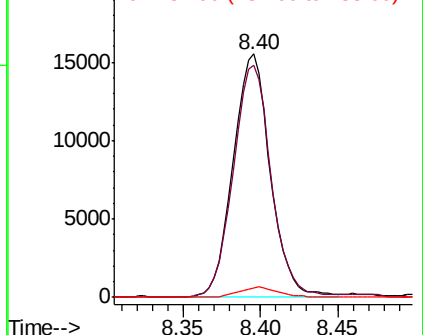
#50
1,2-Dibromoethane
Concen: 4.519 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VV011414.D
Acq: 12 Jun 2019 10:13

Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

Tgt Ion:107 Resp: 25952
Ion Ratio Lower Upper
107 100
109 95.4 64.5 119.9
188 4.0 2.7 4.1

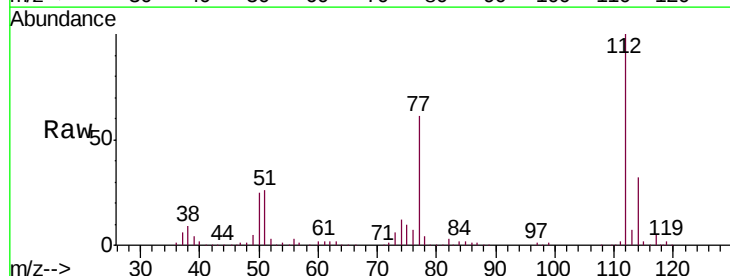


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

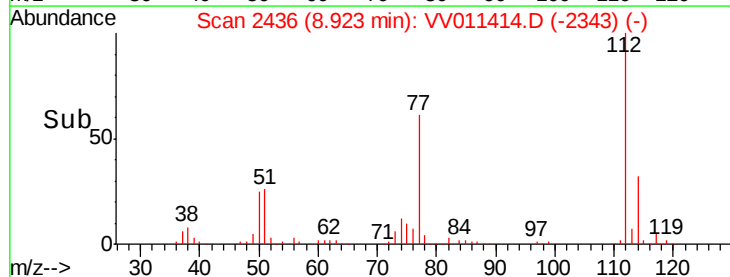
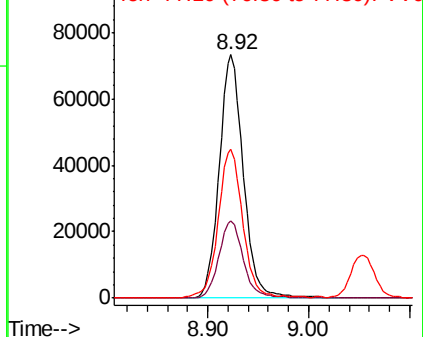


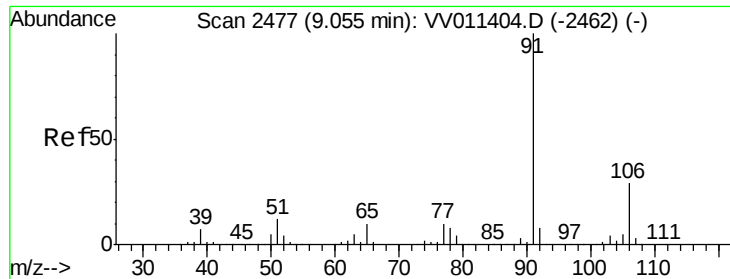
#51
Chlorobenzene
Concen: 4.958 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV011414.D
Acq: 12 Jun 2019 10:13

Tgt Ion:112 Resp: 122213
Ion Ratio Lower Upper
112 100
114 31.7 22.6 42.0
77 61.0 50.1 75.1



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: 4.913 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

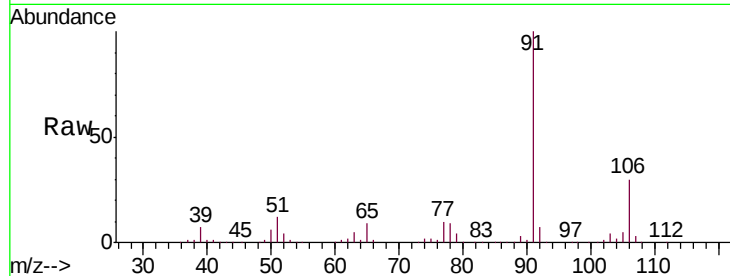
VSTD00548

Tgt Ion: 91 Resp: 220545

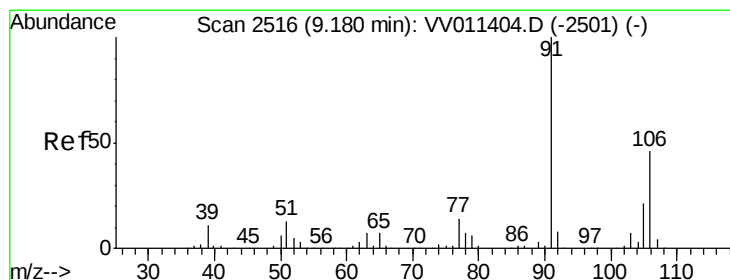
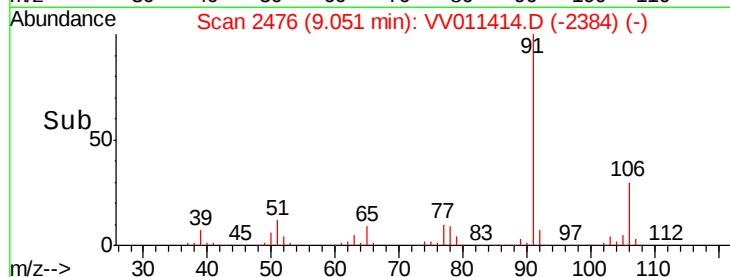
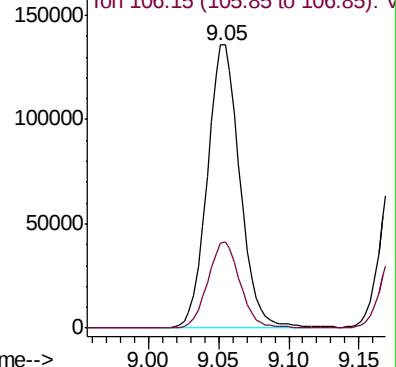
Ion Ratio Lower Upper

91 100

106 29.8 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VV011414.D (-2462) (-)



#53

m,p-xylene

Concen: 4.892 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV011414.D

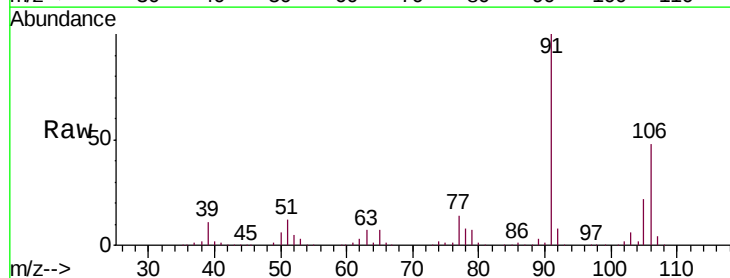
Acq: 12 Jun 2019 10:13

Tgt Ion: 106 Resp: 81217

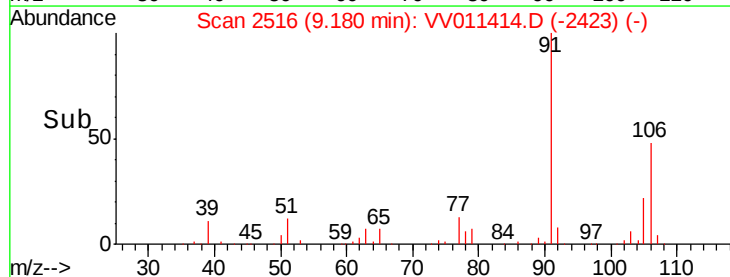
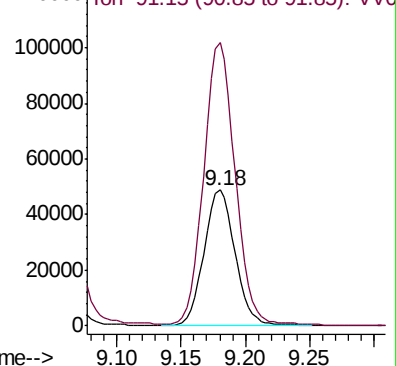
Ion Ratio Lower Upper

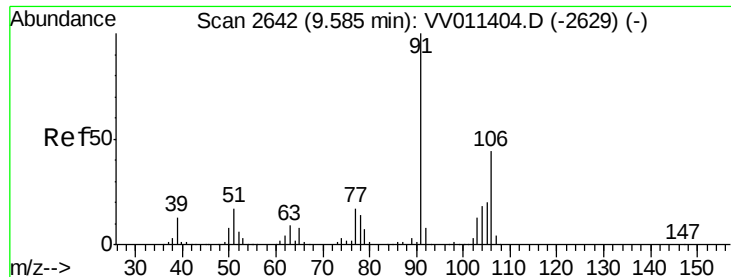
106 100

91 208.2 145.5 270.3



Abundance Ion 106.15 (105.85 to 106.85): VV011414.D (-2501) (-)





#54

o-xylene

Concen: 4.917 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

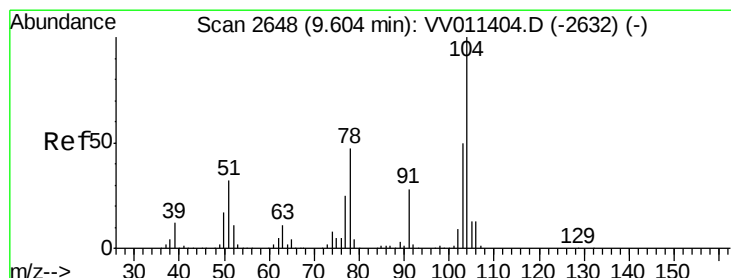
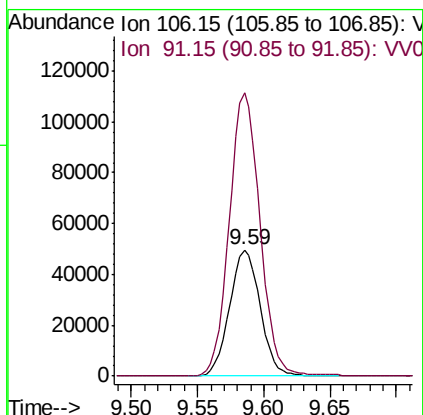
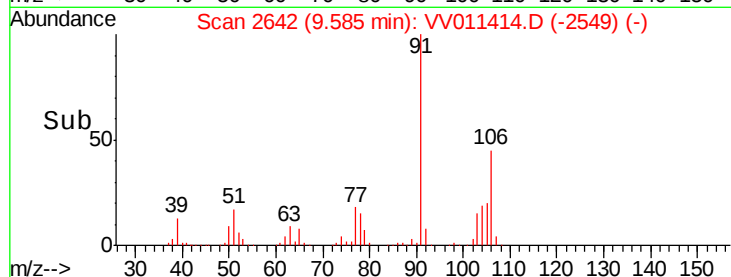
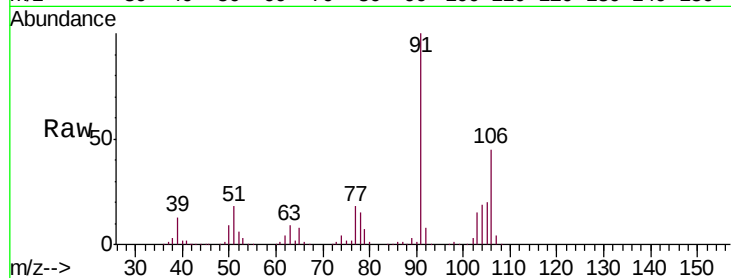
VSTD00548

Tgt Ion:106 Resp: 80099

Ion Ratio Lower Upper

106 100

91 224.0 155.4 288.6



#55

Styrene

Concen: 4.982 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV011414.D

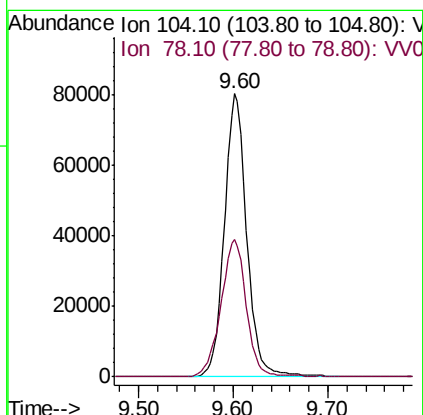
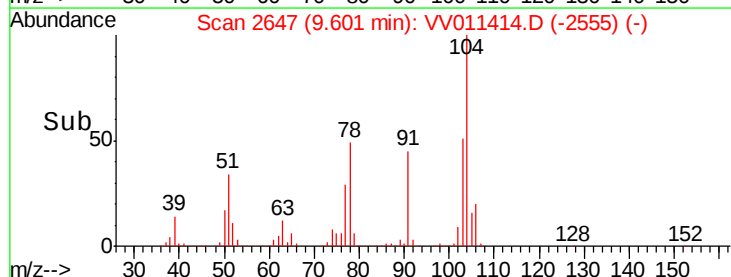
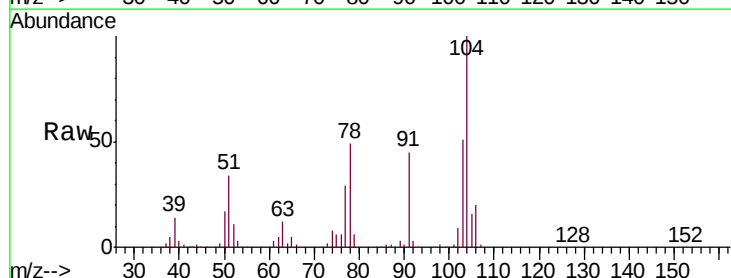
Acq: 12 Jun 2019 10:13

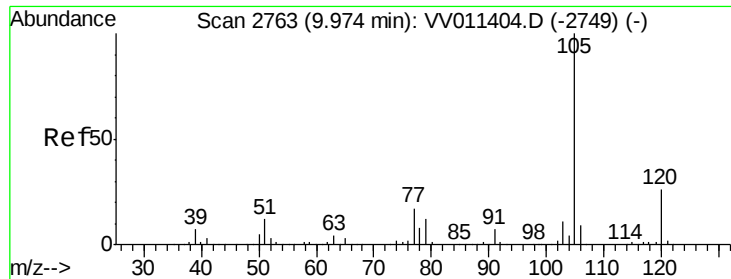
Tgt Ion:104 Resp: 132193

Ion Ratio Lower Upper

104 100

78 48.8 32.4 60.2





#56

Isopropylbenzene

Concen: 4.895 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

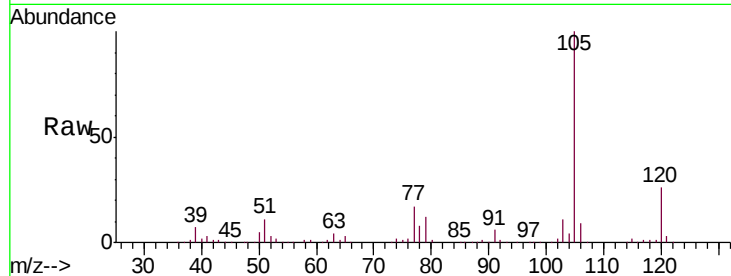
Tgt Ion:105 Resp: 214635

Ion Ratio Lower Upper

105 100

120 25.7 20.9 31.3

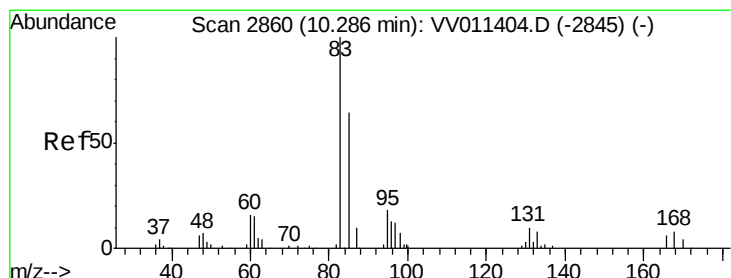
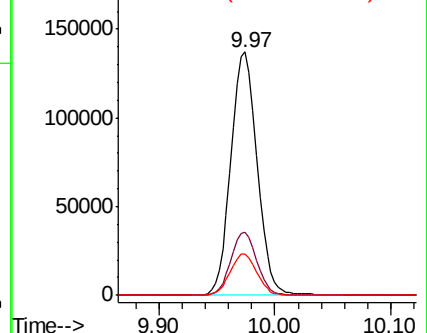
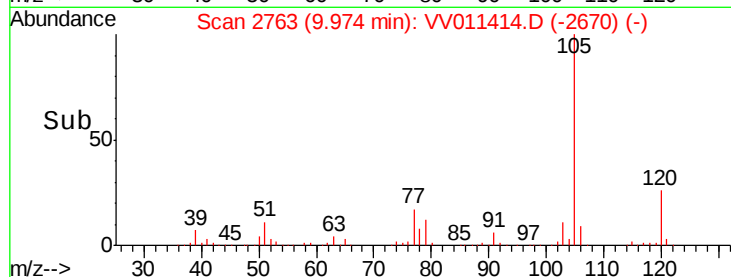
77 17.4 13.8 20.6



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: 4.951 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

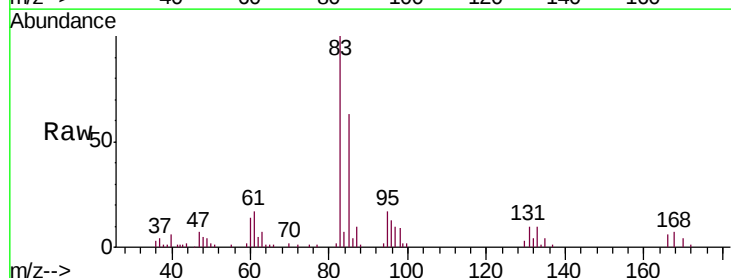
Tgt Ion: 83 Resp: 36270

Ion Ratio Lower Upper

83 100

85 63.1 43.5 80.9

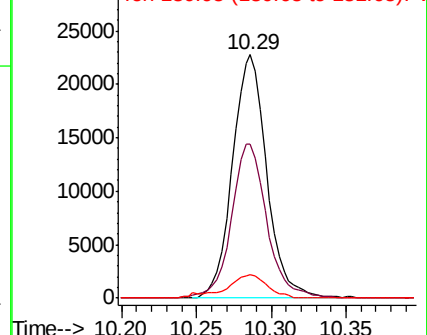
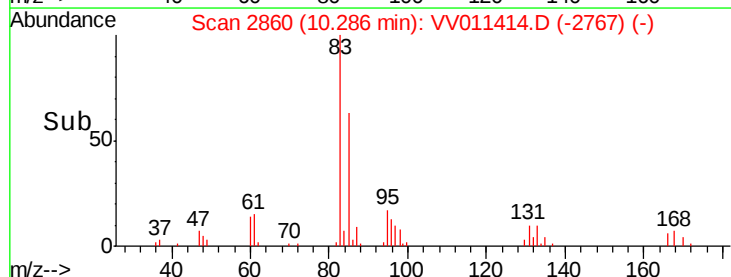
131 9.6 7.5 11.3

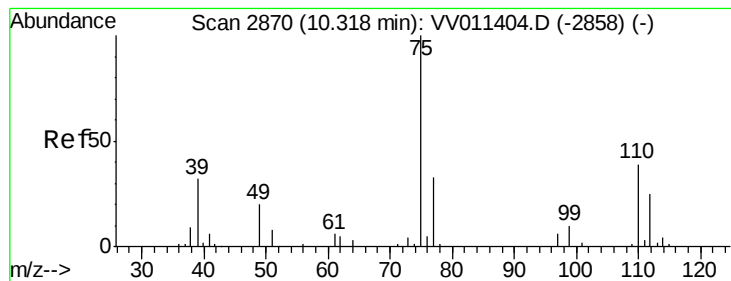


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.742 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

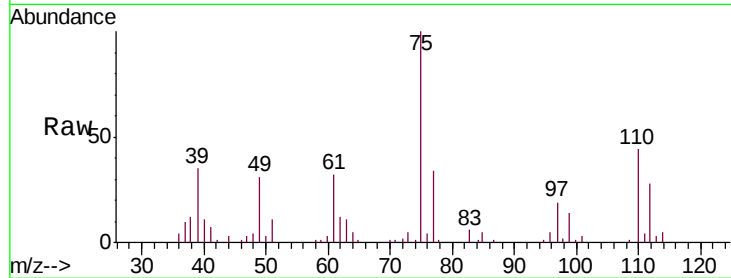
VSTD00548

Tgt Ion: 75 Resp: 26105

Ion Ratio Lower Upper

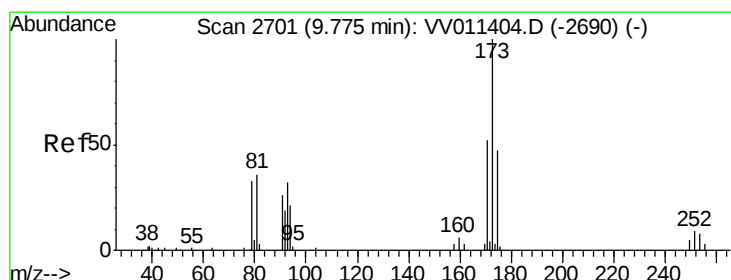
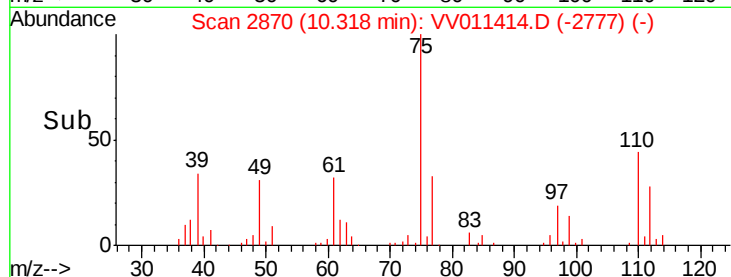
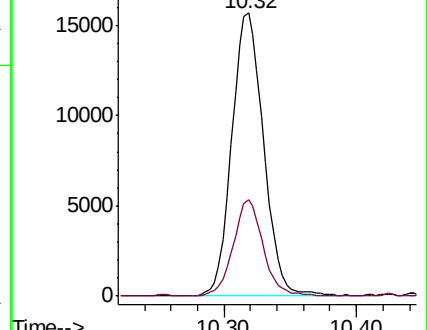
75 100

77 32.2 26.7 40.1



Abundance Ion 75.00 (74.70 to 75.70): VV011414.D (-2858) (-)

Ion 77.00 (76.70 to 77.70): VV011414.D (-2858) (-)



#61

Bromoform

Concen: 4.212 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

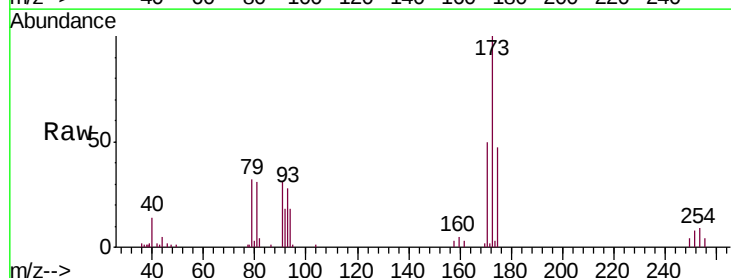
Tgt Ion: 173 Resp: 13550

Ion Ratio Lower Upper

173 100

175 48.7 37.0 55.4

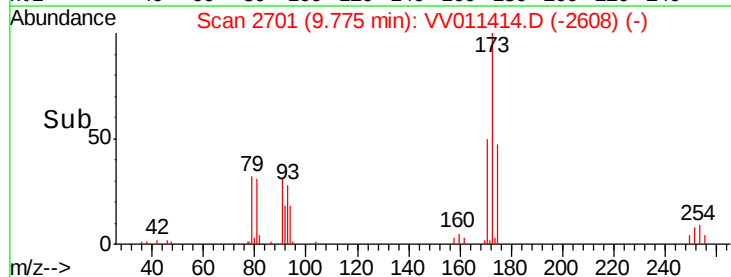
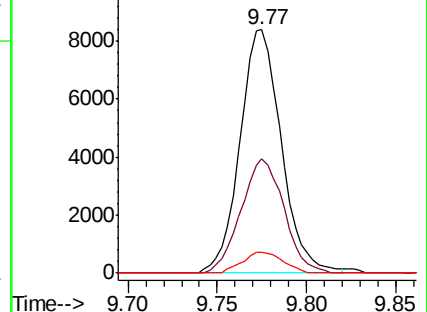
254 8.4 6.9 10.3

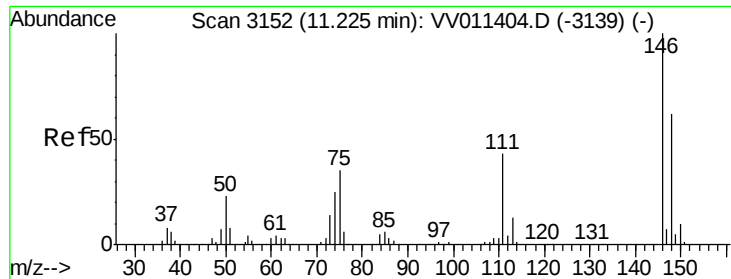


Abundance Ion 172.90 (172.60 to 173.60): VV011414.D (-2690) (-)

Ion 174.90 (174.60 to 175.60): VV011414.D (-2690) (-)

Ion 253.75 (253.45 to 254.45): VV011414.D (-2690) (-)





#62

1,3-Dichlorobenzene

Concen: 4.864 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

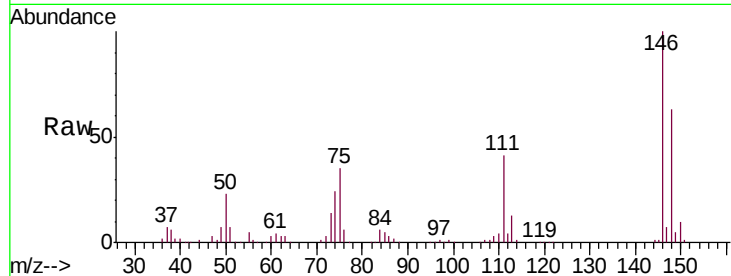
Tgt Ion:146 Resp: 86127

Ion Ratio Lower Upper

146 100

111 41.3 29.0 53.9

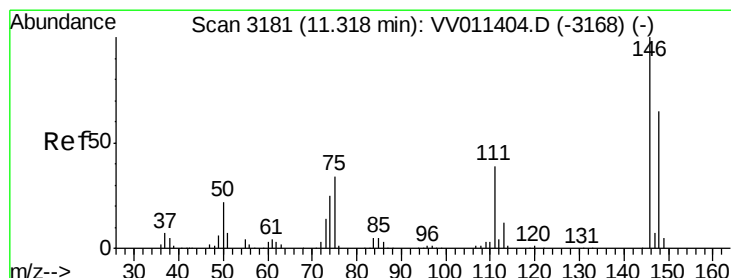
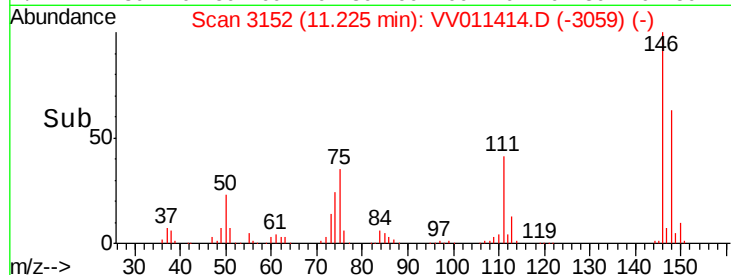
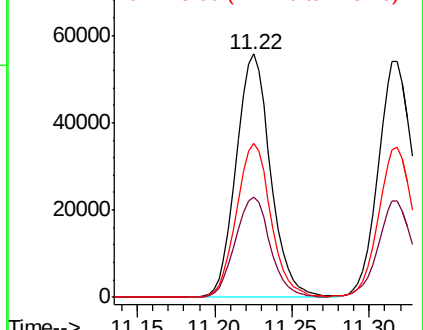
148 63.2 44.0 81.8



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: 5.120 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

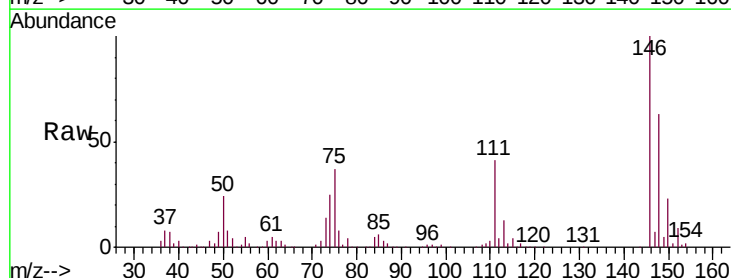
Tgt Ion:146 Resp: 88004

Ion Ratio Lower Upper

146 100

111 40.7 28.3 52.5

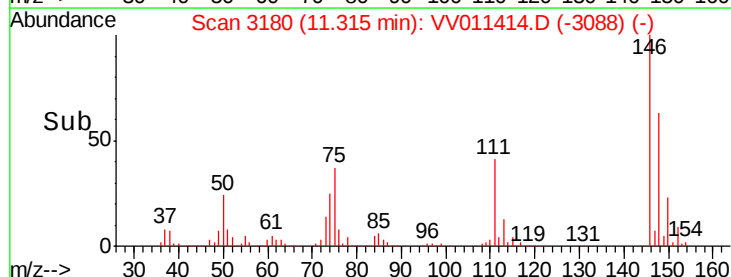
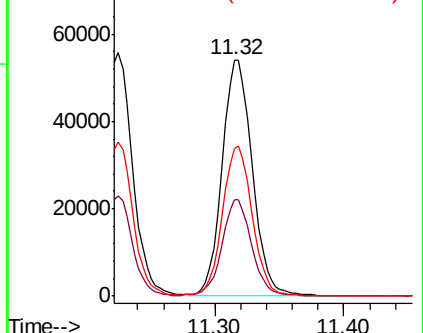
148 62.5 44.6 82.8

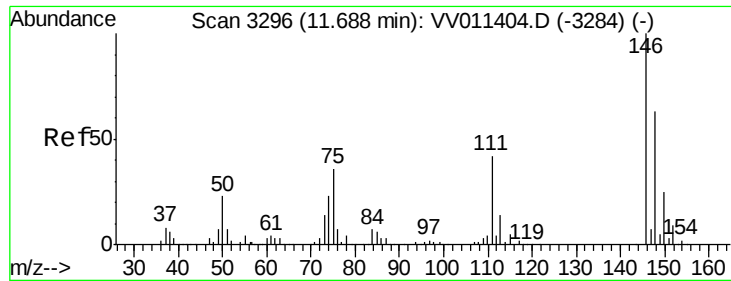


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.166 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

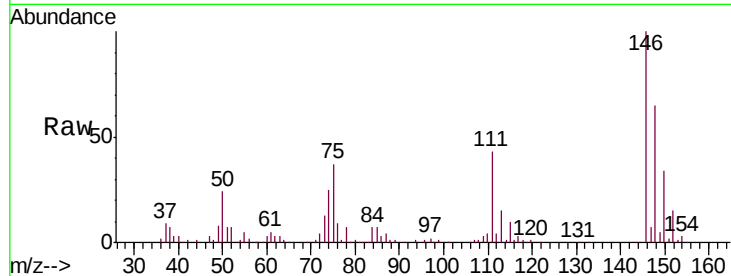
Tgt Ion:146 Resp: 84546

Ion Ratio Lower Upper

146 100

111 43.1 33.9 50.9

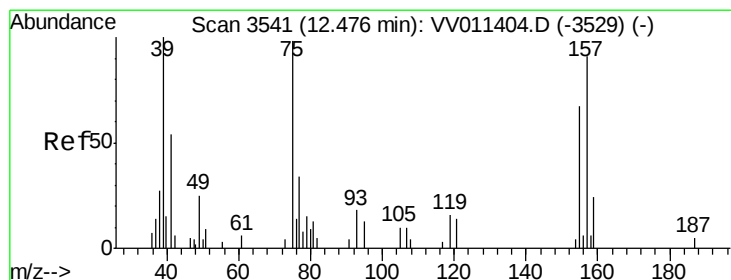
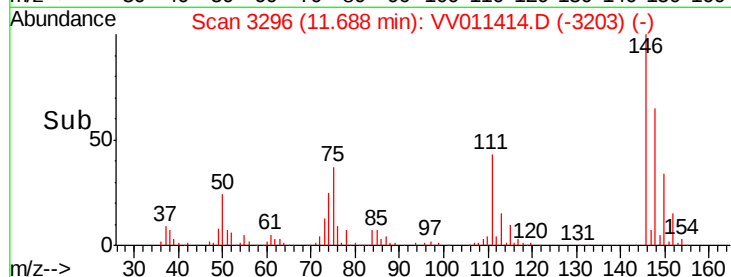
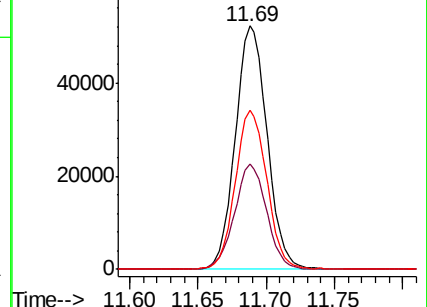
148 65.2 50.3 75.5



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



#66

1,2-Dibromo-3-chloropropane

Concen: 4.665 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

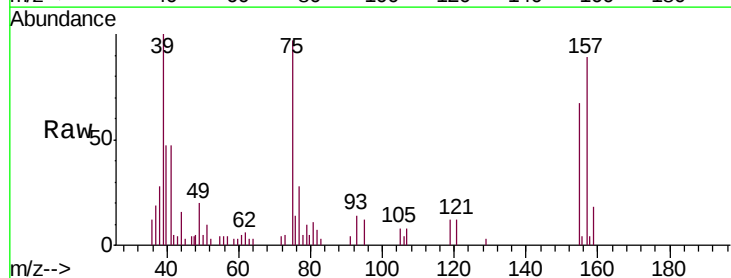
Tgt Ion: 75 Resp: 5471

Ion Ratio Lower Upper

75 100

155 68.6 64.4 96.6

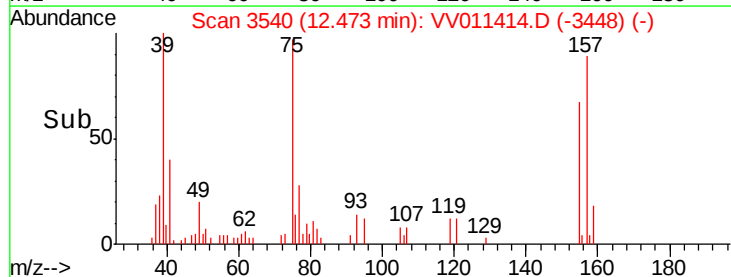
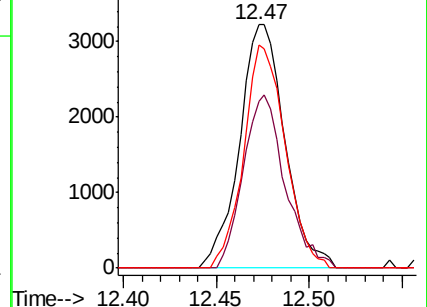
157 91.6 66.7 100.1

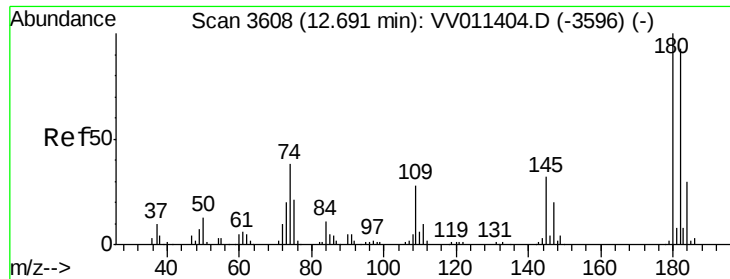


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

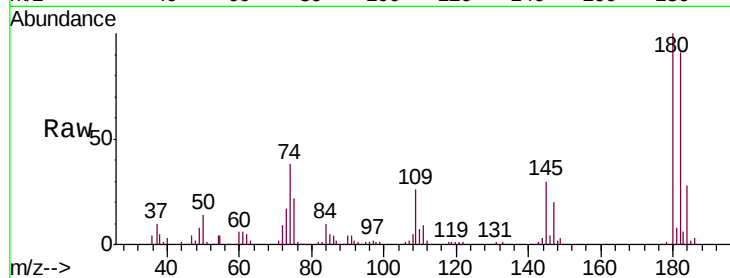




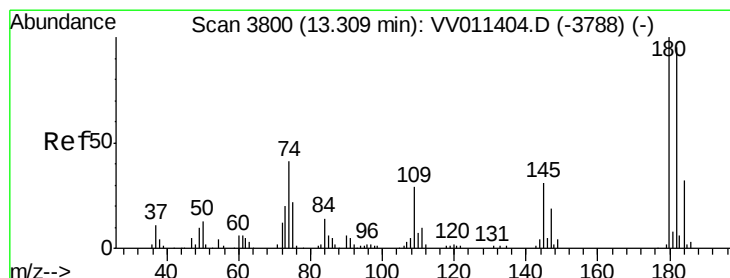
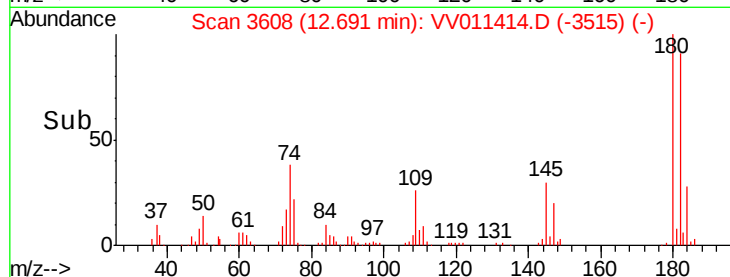
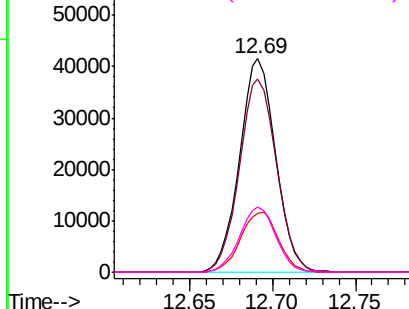
#67
 1,3,5-Trichlorobenzene
 Concen: 4.948 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV011414.D
 Acq: 12 Jun 2019 10:13

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

Tgt Ion:180 Resp: 63039
 Ion Ratio Lower Upper
 180 100
 182 93.0 76.7 115.1
 184 29.4 23.8 35.8
 145 30.7 24.2 36.2

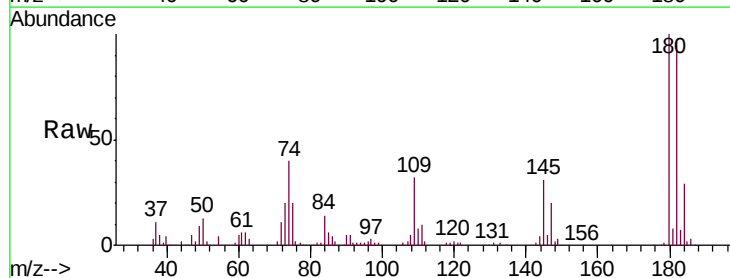


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

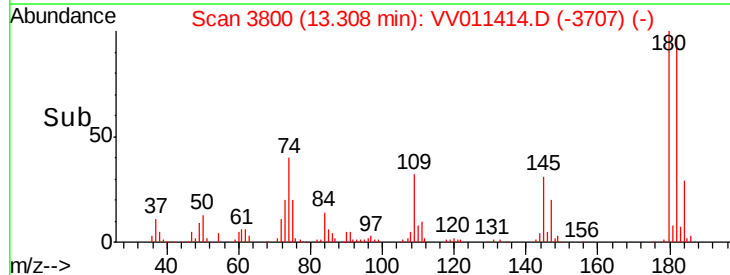
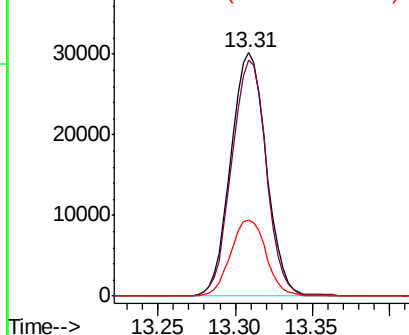


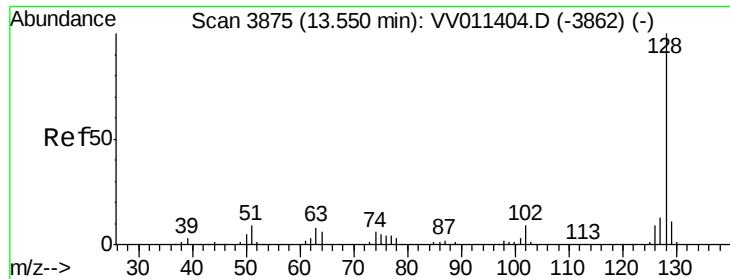
#68
 1,2,4-trichlorobenzene
 Concen: 4.966 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV011414.D
 Acq: 12 Jun 2019 10:13

Tgt Ion:180 Resp: 48031
 Ion Ratio Lower Upper
 180 100
 182 94.6 78.8 118.2
 145 31.3 26.3 39.5



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: 4.664 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

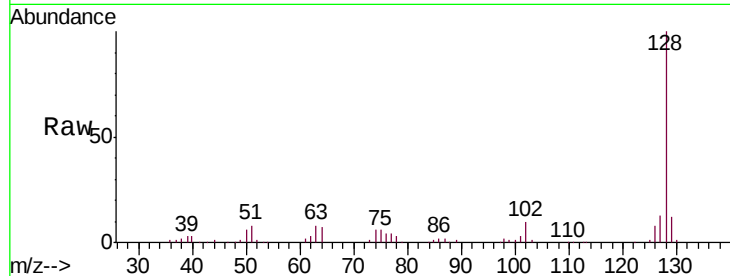
Tgt Ion:128 Resp: 73836

Ion Ratio Lower Upper

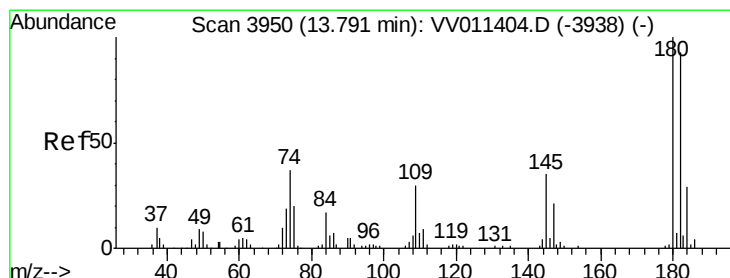
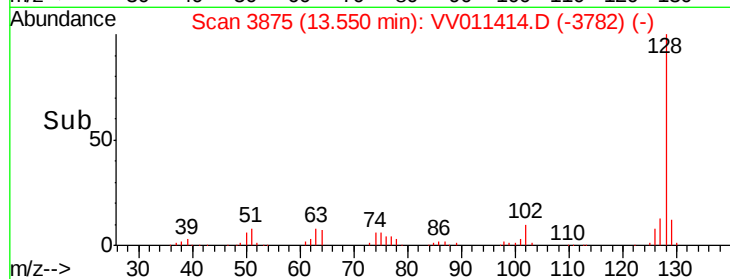
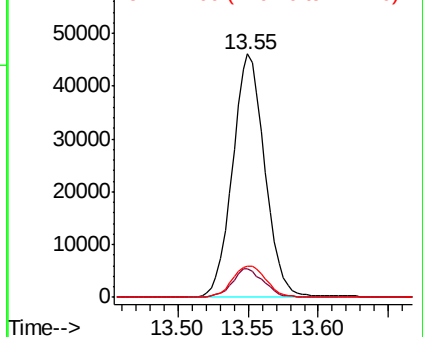
128 100

129 11.5 8.9 13.3

127 13.7 10.5 15.7



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: 5.175 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV011414.D

Acq: 12 Jun 2019 10:13

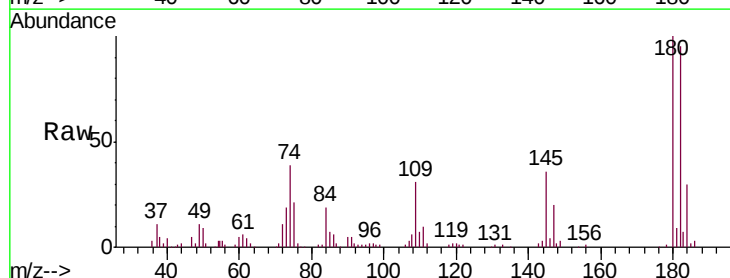
Tgt Ion:180 Resp: 44883

Ion Ratio Lower Upper

180 100

182 94.7 78.6 117.8

145 34.9 26.9 40.3



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

