

Data File : VV008968.D
Acq On : 15 Dec 2018 06:39
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.0 mL/MSVOA_V/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05080

Quant Time: Dec 15 19:58:22 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121318WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Dec 15 01:01:00 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	217897	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	204430	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	103817	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	59122	46.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.92%
7) Chloroethane-d5	1.56	69	43044	53.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.50%
11) 1,1-Dichloroethene-d2	2.13	63	153497	51.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.16%
21) 2-Butanone-d5	3.93	46	96696	113.81	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	113.81%
24) Chloroform-d	4.40	84	138631	51.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.12%
26) 1,2-Dichloroethane-d4	5.08	65	88873	51.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.78%
32) Benzene-d6	5.10	84	274544	49.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.66%
36) 1,2-Dichloropropane-d6	6.12	67	83191	50.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.50%
41) Toluene-d8	7.36	98	259278	50.14	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.28%
43) trans-1,3-Dichloropropene-	7.67	79	40143	47.81	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.62%
47) 2-Hexanone-d5	8.14	63	73728	120.33	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	120.33%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	110953	51.91	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.82%
64) 1,2-Dichlorobenzene-d4	11.68	152	106614	49.79	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.58%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	72514	47.380	ug/L 99
3) Chloromethane	1.25	50	62609	48.754	ug/L 98
5) Vinyl chloride	1.33	62	65804	49.059	ug/L 99
6) Bromomethane	1.51	94	28483	39.689	ug/L 100
8) Chloroethane	1.58	64	36470	53.304	ug/L 97
9) Trichlorofluoromethane	1.76	101	127911	52.630	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	74143	49.855	ug/L 95
12) 1,1-Dichloroethene	2.14	96	66249	48.965	ug/L 92
13) Acetone	2.19	43	84498	66.140	ug/L 97
14) Carbon disulfide	2.32	76	169414	45.856	ug/L 100
15) Methyl Acetate	2.46	43	73037	52.822	ug/L 98
16) Methylene chloride	2.54	84	73001	48.455	ug/L 97
17) trans-1,2-Dichloroethene	2.79	96	67724	49.462	ug/L 99
18) Methyl tert-butyl Ether	2.81	73	223126	51.192	ug/L 99
19) 1,1-Dichloroethane	3.23	63	122388	50.635	ug/L 98
20) cis-1,2-Dichloroethene	3.96	96	77217	49.159	ug/L 95
22) 2-Butanone	4.02	43	96232	89.722	ug/L 94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	41363	50.315	ug/L	95
25) Chloroform	4.43	83	131217	48.696	ug/L	99
27) 1,2-Dichloroethane	5.18	62	105934	50.599	ug/L	100
29) Cyclohexane	4.73	56	104035	47.776	ug/L	98
30) 1,1,1-Trichloroethane	4.66	97	120410	48.070	ug/L	100
31) Carbon tetrachloride	4.88	117	107326	47.454	ug/L	99
33) Benzene	5.15	78	276015	48.982	ug/L	100
34) Trichloroethene	5.96	95	81177	49.901	ug/L	97
35) Methylcyclohexane	6.18	83	116029	48.097	ug/L	100
37) 1,2-Dichloropropane	6.22	63	70697	48.527	ug/L	99
38) Bromodichloromethane	6.56	83	96393	47.810	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	105435	45.380	ug/L	98
40) 4-Methyl-2-pentanone	7.27	43	180895	107.476	ug/L	99
42) Toluene	7.43	91	299961	49.822	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	100242	46.287	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	73855	50.063	ug/L	99
46) Tetrachloroethene	8.02	164	63492	49.014	ug/L	96
48) 2-Hexanone	8.19	43	136250	97.204	ug/L	94
49) Dibromochloromethane	8.29	129	84504	49.289	ug/L	99
50) 1,2-Dibromoethane	8.40	107	78509	49.789	ug/L	97
51) Chlorobenzene	8.93	112	203597	49.490	ug/L	100
52) Ethylbenzene	9.06	91	334811	50.393	ug/L	99
53) m,p-Xylene	9.18	106	127900	50.482	ug/L	98
54) o-xylene	9.59	106	127525	50.889	ug/L	96
55) Styrene	9.60	104	215899	52.110	ug/L	98
56) Isopropylbenzene	9.98	105	332239	50.228	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	108350	49.996	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	94564	51.542	ug/L	99
61) Bromoform	9.78	173	61157	45.851	ug/L	100
62) 1,3-Dichlorobenzene	11.23	146	161850	48.632	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	162825	48.588	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	172933	51.175	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	23446	50.754	ug/L	99
67) 1,3,5-Trichlorobenzene	12.69	180	108152	50.423	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	79919	54.321	ug/L	99
69) Naphthalene	13.56	128	179184	48.710	ug/L	100
70) 1,2,3-Trichlorobenzene	13.80	180	79765	53.838	ug/L	99

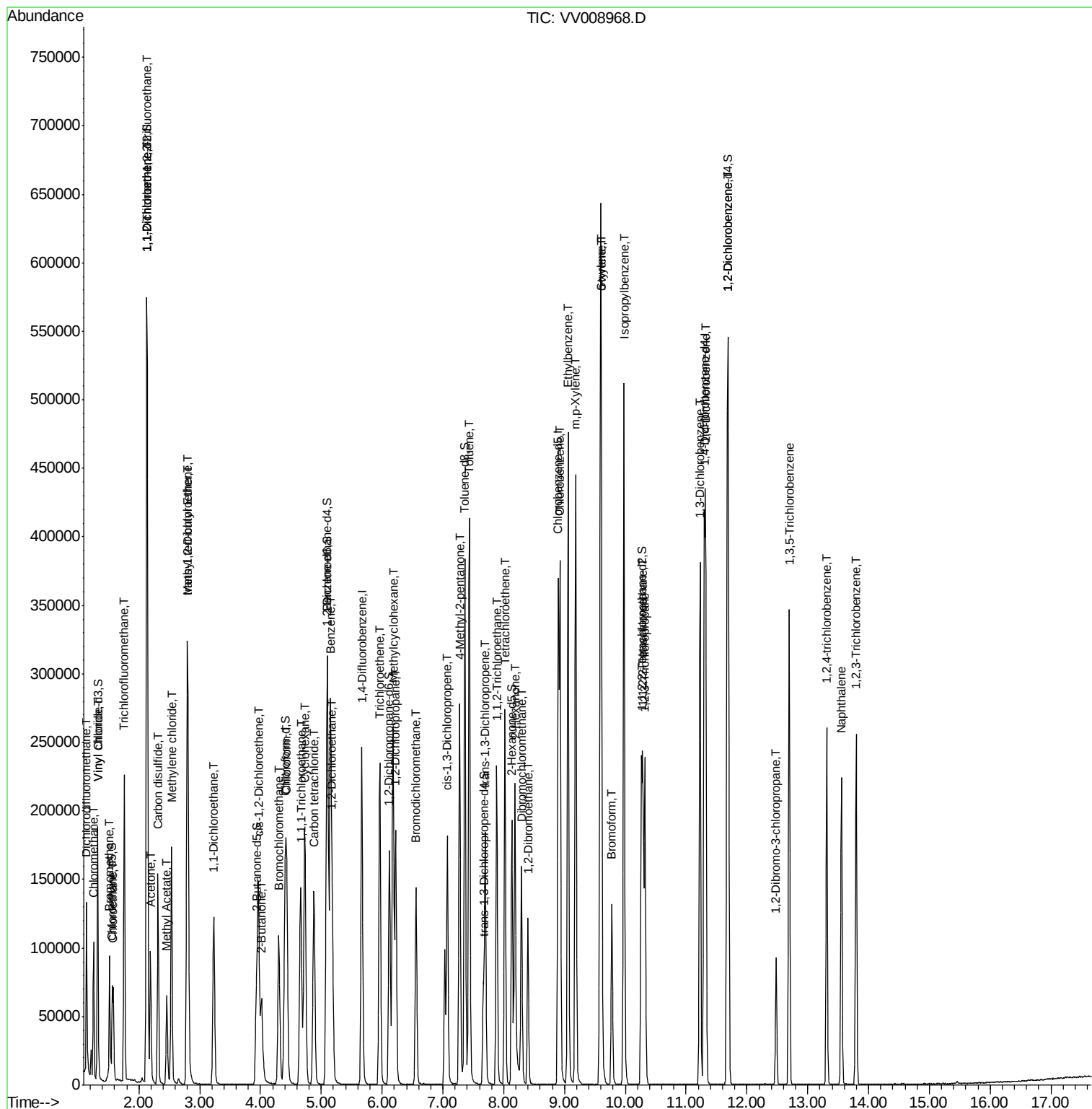
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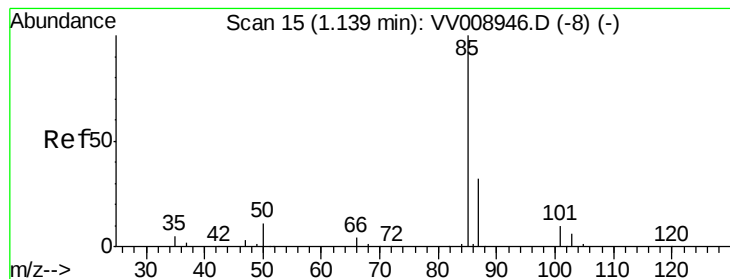
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#2

Dichlorodifluoromethane

Concen: 47.380 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

Instrument :

MSVOA_V

ClientSampleId :

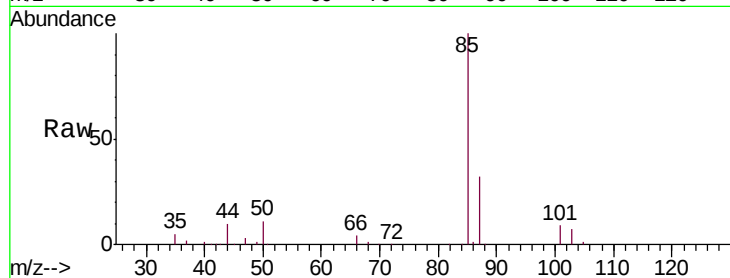
VSTD05080

Tgt Ion: 85 Resp: 72514

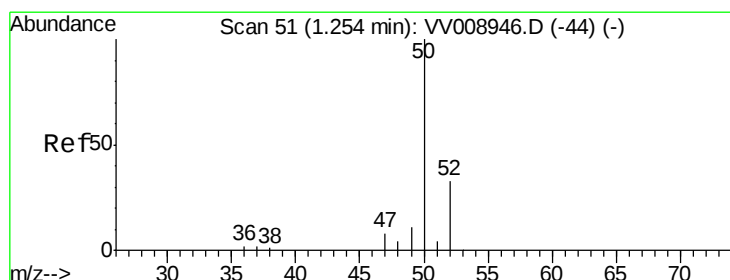
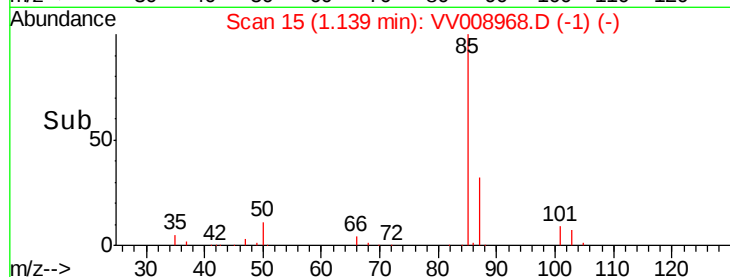
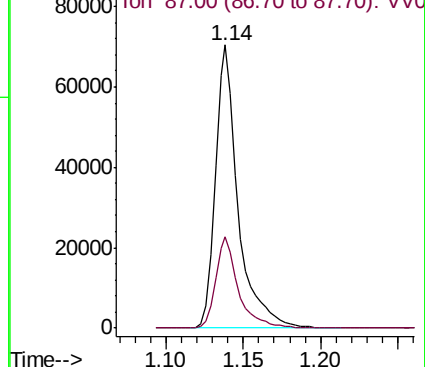
Ion Ratio Lower Upper

85 100

87 32.1 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VV008946.D (-8) (-)



#3

Chloromethane

Concen: 48.754 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV008968.D

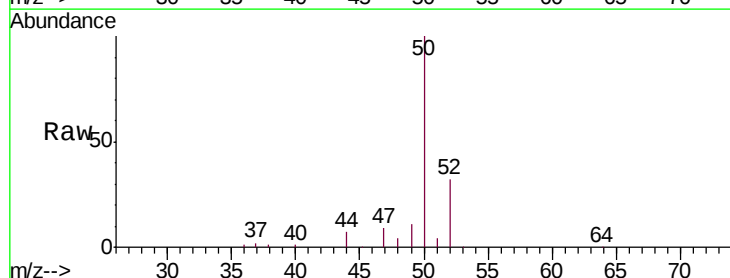
Acq: 15 Dec 2018 06:39

Tgt Ion: 50 Resp: 62609

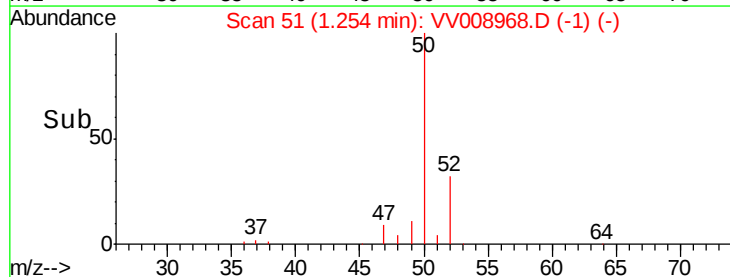
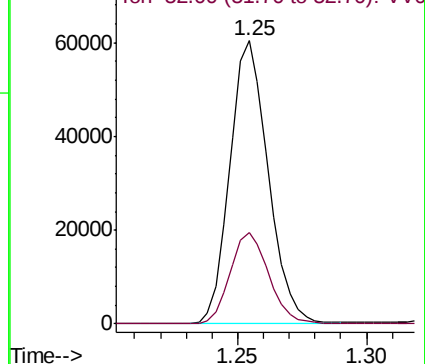
Ion Ratio Lower Upper

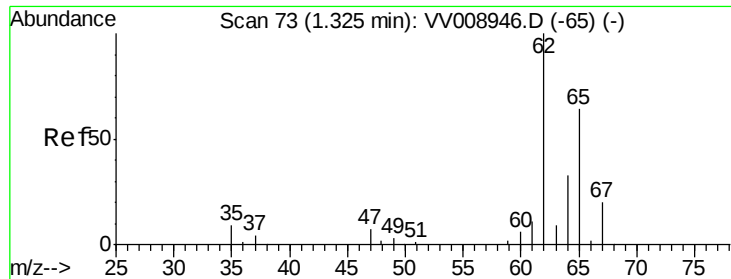
50 100

52 32.4 21.9 40.7



Abundance Ion 50.00 (49.70 to 50.70): VV008946.D (-44) (-)





#5

Vinyl chloride

Concen: 49.059 ug/L

RT: 1.33 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

Instrument :

MSVOA_V

ClientSampleId :

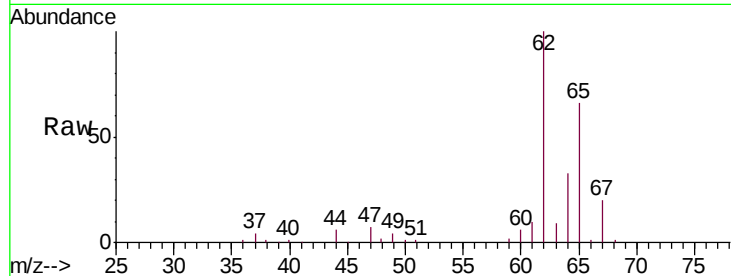
VSTD05080

Tgt Ion: 62 Resp: 65804

Ion Ratio Lower Upper

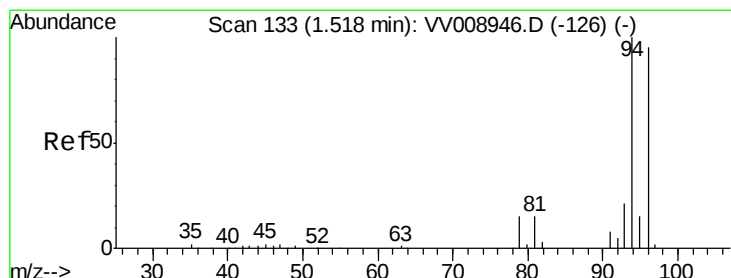
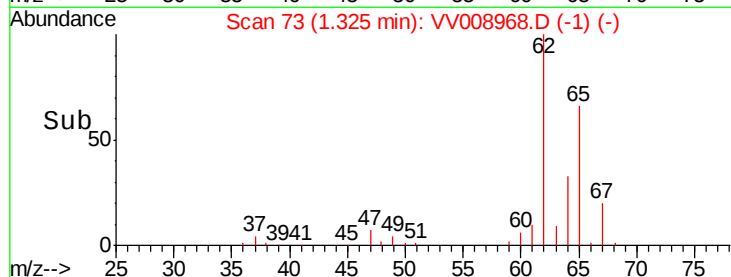
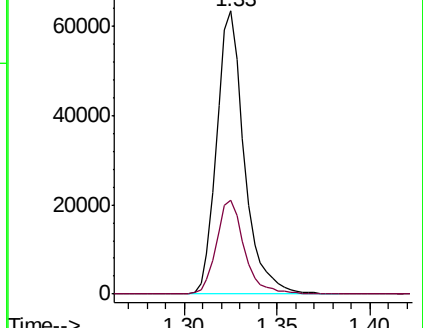
62 100

64 33.4 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VV008946.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV008946.D (-65) (-)



#6

Bromomethane

Concen: 39.689 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.00 min

Lab File: VV008968.D

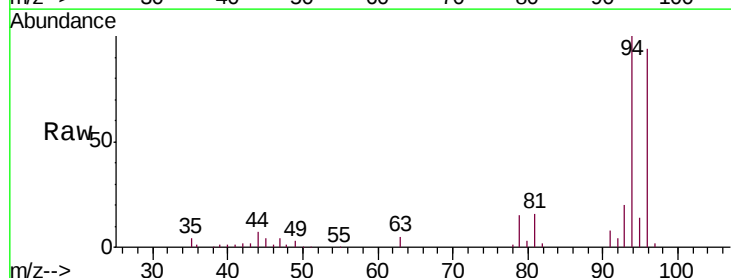
Acq: 15 Dec 2018 06:39

Tgt Ion: 94 Resp: 28483

Ion Ratio Lower Upper

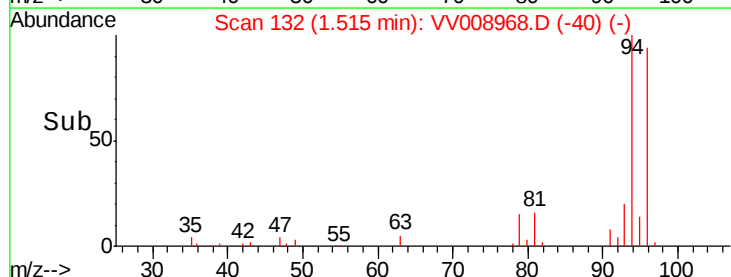
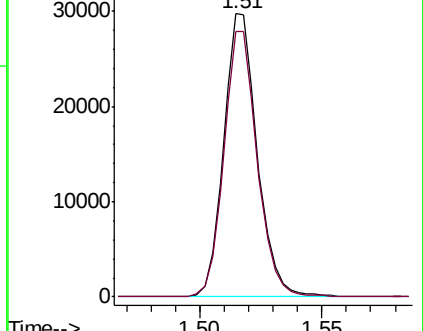
94 100

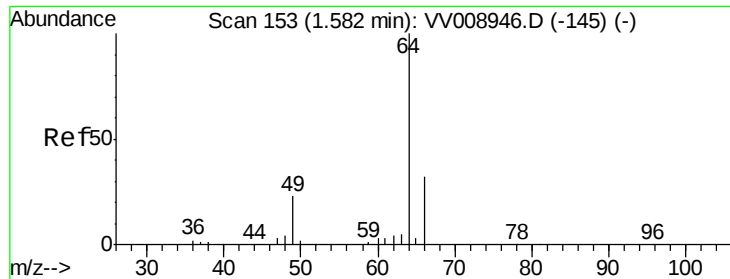
96 93.8 65.4 121.4



Abundance Ion 94.00 (93.70 to 94.70): VV008946.D (-126) (-)

Ion 96.00 (95.70 to 96.70): VV008946.D (-126) (-)





#8

Chloroethane

Concen: 53.304 ug/L

RT: 1.58 min Scan# 152

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

Instrument :

MSVOA_V

ClientSampleId :

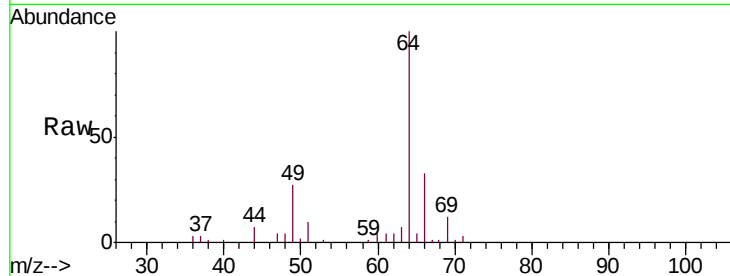
VSTD05080

Tgt Ion: 64 Resp: 36470

Ion Ratio Lower Upper

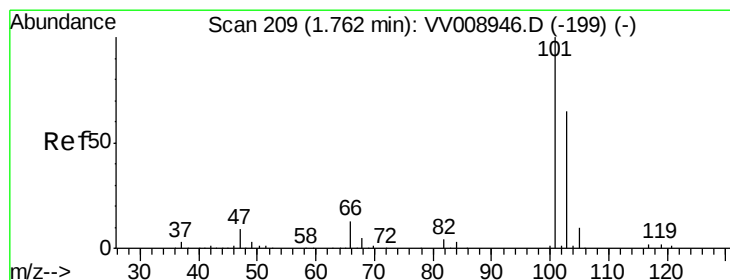
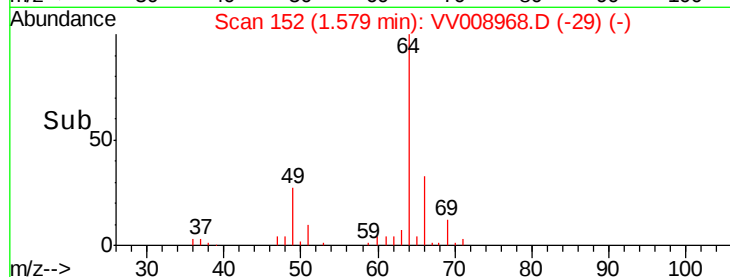
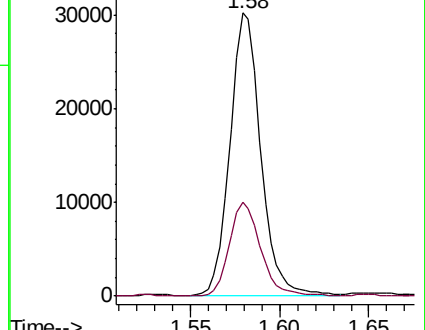
64 100

66 33.0 21.8 40.4



Abundance Ion 64.00 (63.70 to 64.70): VV008946.D (-145) (-)

Ion 66.00 (65.70 to 66.70): VV008946.D (-145) (-)



#9

Trichlorofluoromethane

Concen: 52.630 ug/L

RT: 1.76 min Scan# 208

Delta R.T. -0.00 min

Lab File: VV008968.D

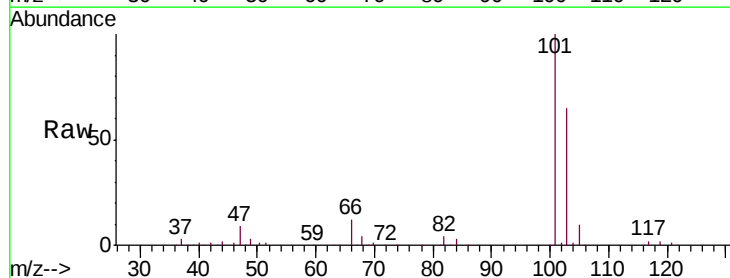
Acq: 15 Dec 2018 06:39

Tgt Ion: 101 Resp: 127911

Ion Ratio Lower Upper

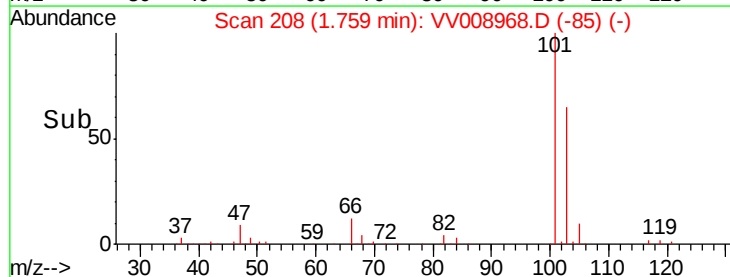
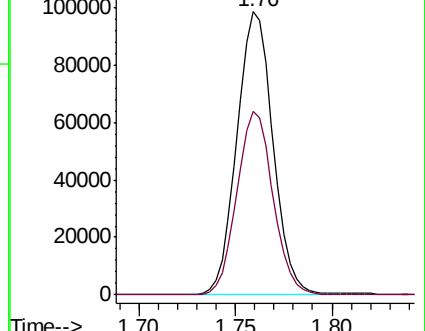
101 100

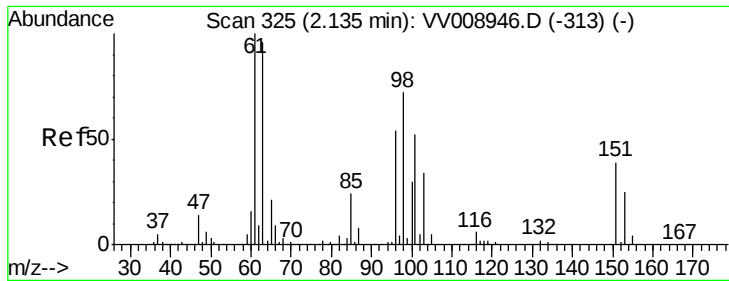
103 64.6 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): VV008946.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV008946.D (-199) (-)





#10

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

Concen: 49.855 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

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MSVOA_V

ClientSampleId :

VSTD05080

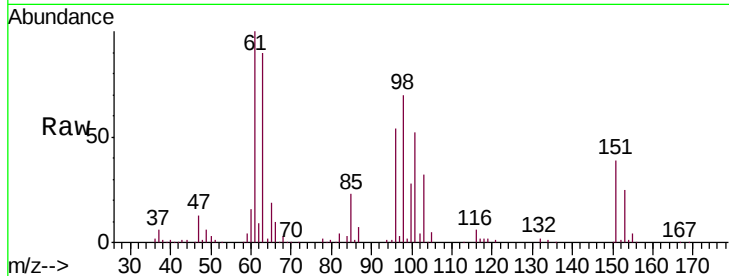
Tgt Ion:101 Resp: 74143

Ion Ratio Lower Upper

101 100

85 42.9 34.6 52.0

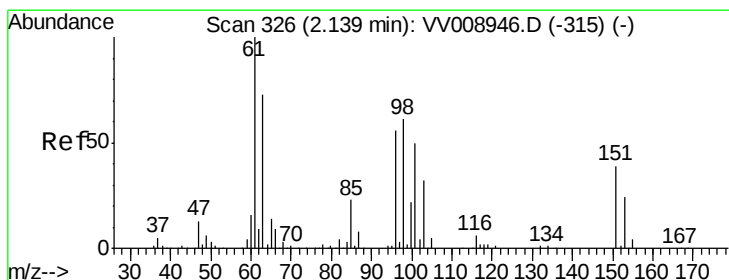
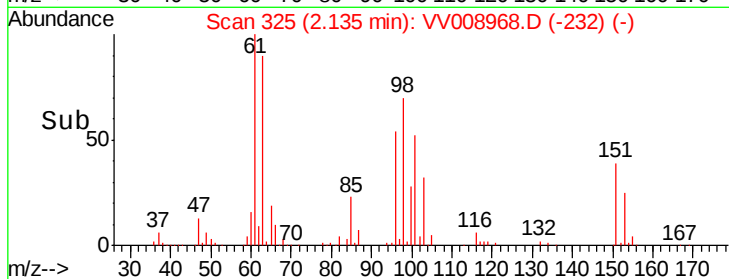
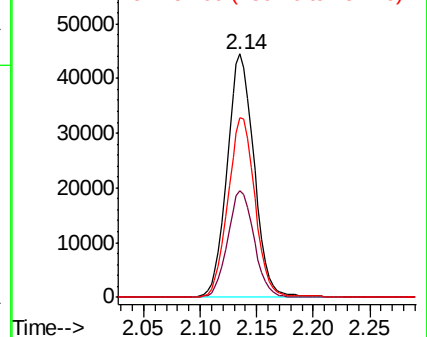
151 73.3 63.8 95.8



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: 48.965 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

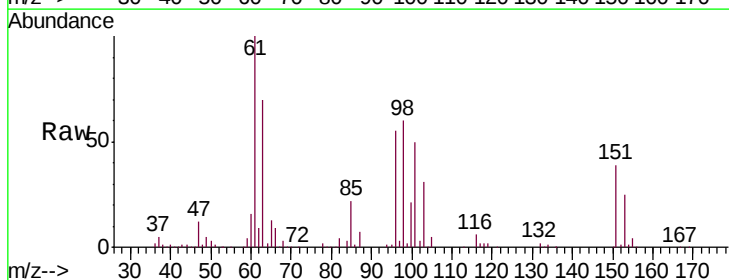
Tgt Ion: 96 Resp: 66249

Ion Ratio Lower Upper

96 100

61 180.2 119.1 221.3

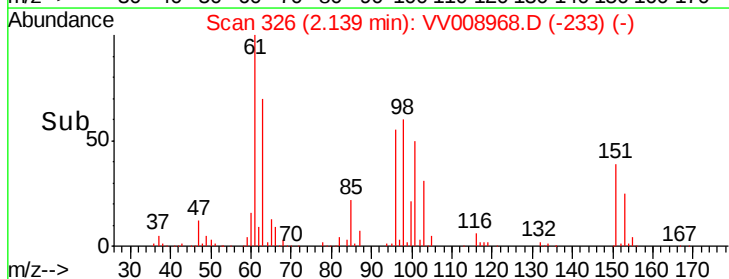
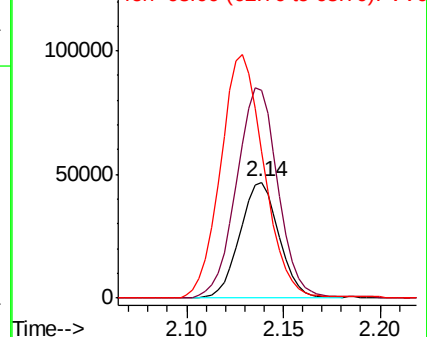
63 127.0 96.0 178.2

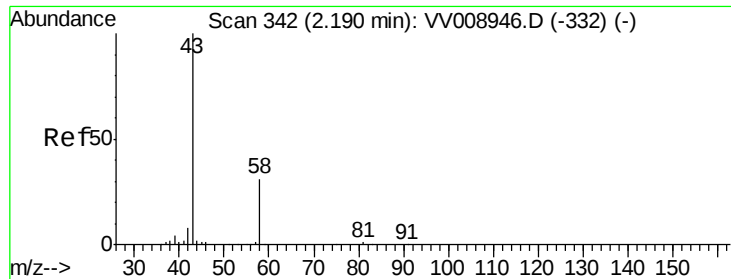


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 66.140 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

Instrument :

MSVOA_V

ClientSampleId :

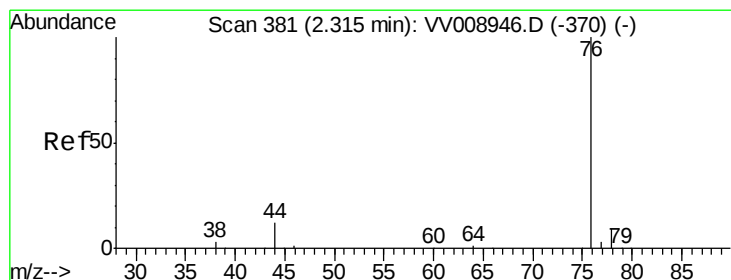
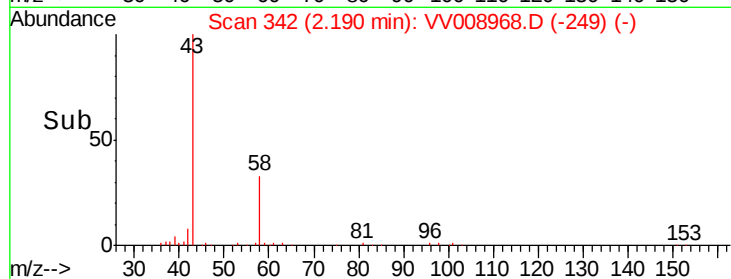
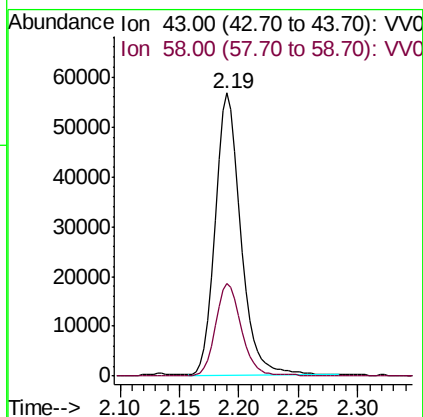
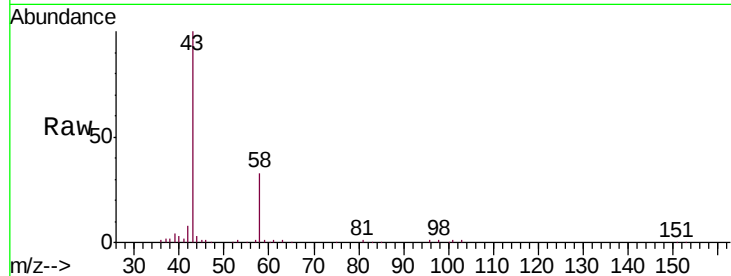
VSTD05080

Tgt Ion: 43 Resp: 84498

Ion Ratio Lower Upper

43 100

58 32.8 0.0 61.8



#14

Carbon disulfide

Concen: 45.856 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

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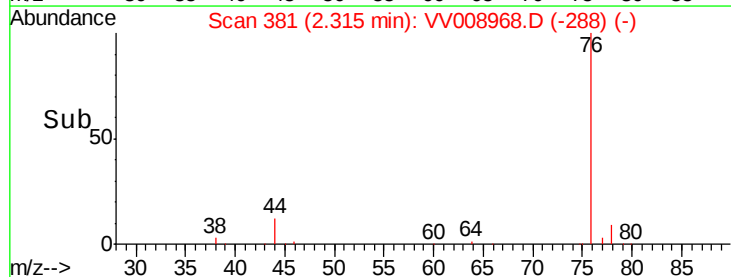
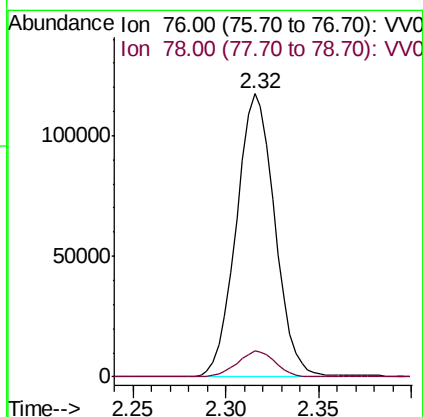
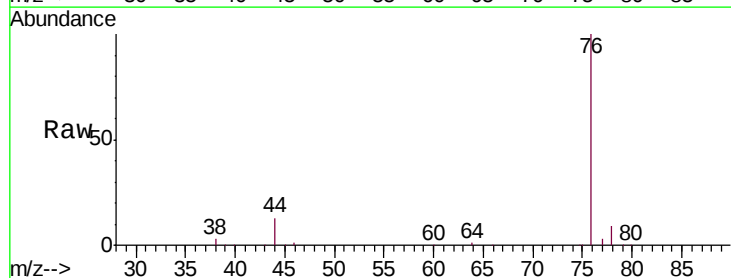
Acq: 15 Dec 2018 06:39

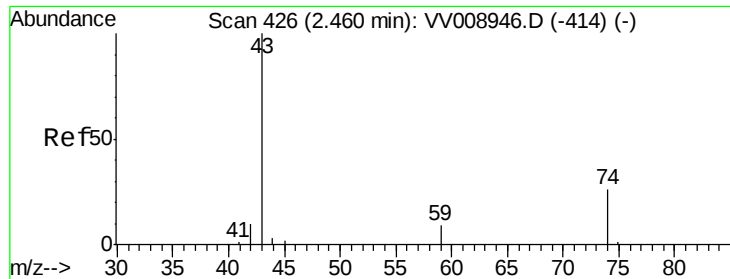
Tgt Ion: 76 Resp: 169414

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9





#15

Methyl Acetate

Concen: 52.822 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

Instrument :

MSVOA_V

ClientSampleId :

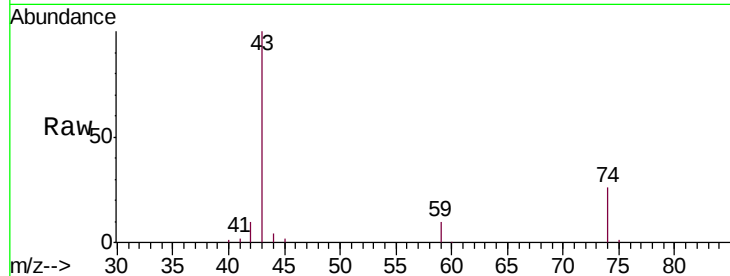
VSTD05080

Tgt Ion: 43 Resp: 73037

Ion Ratio Lower Upper

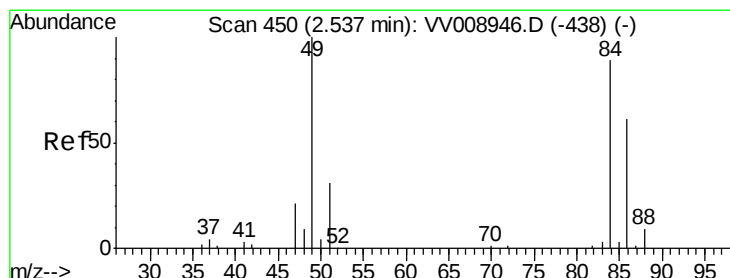
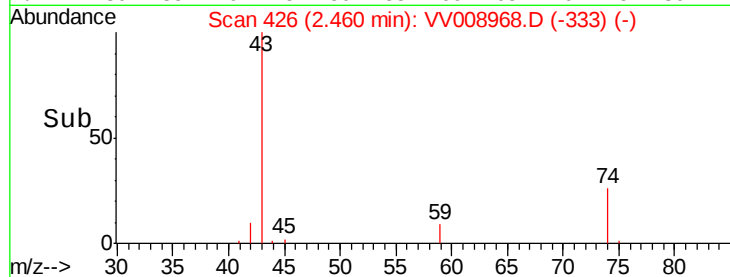
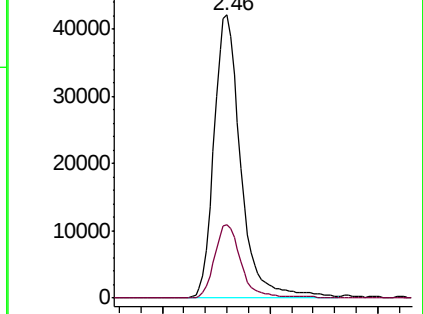
43 100

74 25.1 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VV008946.D (-414) (-)

Ion 74.00 (73.70 to 74.70): VV008946.D (-414) (-)



#16

Methylene chloride

Concen: 48.455 ug/L

RT: 2.54 min Scan# 450

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

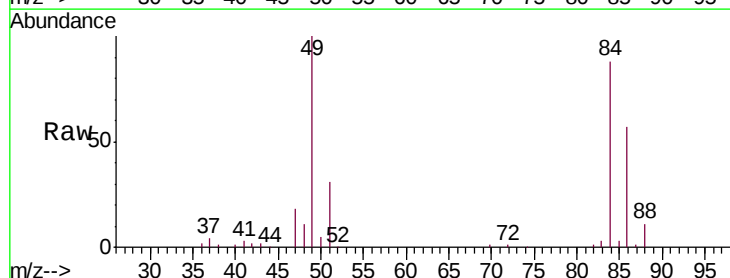
Tgt Ion: 84 Resp: 73001

Ion Ratio Lower Upper

84 100

86 65.0 44.2 82.0

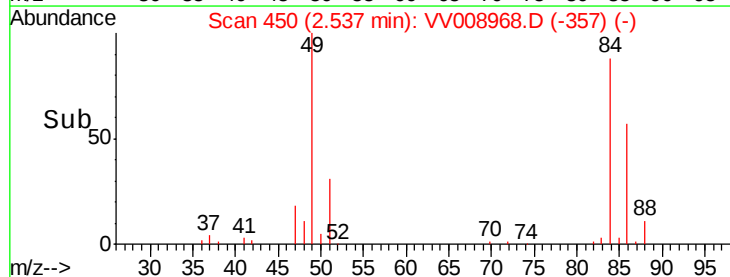
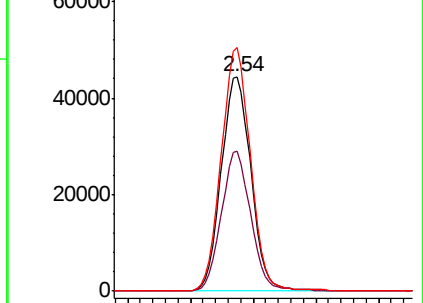
49 113.6 77.4 143.8

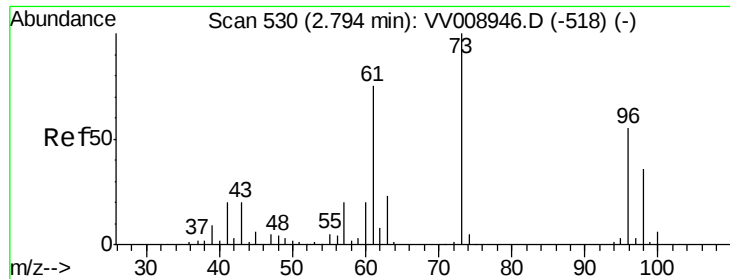


Abundance Ion 84.00 (83.70 to 84.70): VV008946.D (-438) (-)

Ion 86.00 (85.70 to 86.70): VV008946.D (-438) (-)

Ion 49.00 (48.70 to 49.70): VV008946.D (-438) (-)

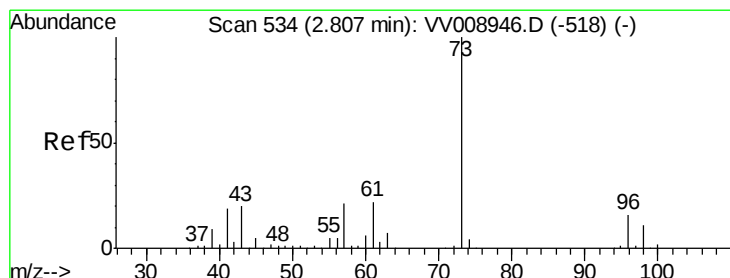
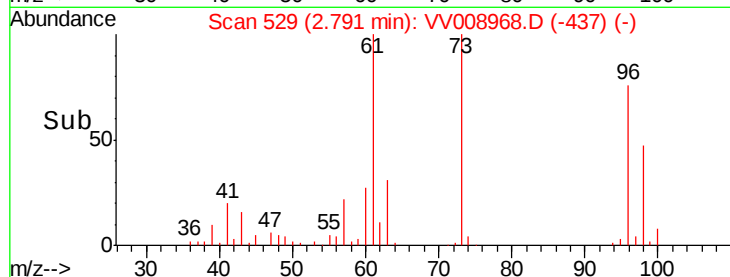
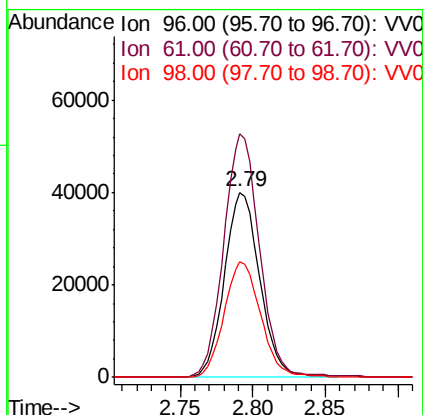
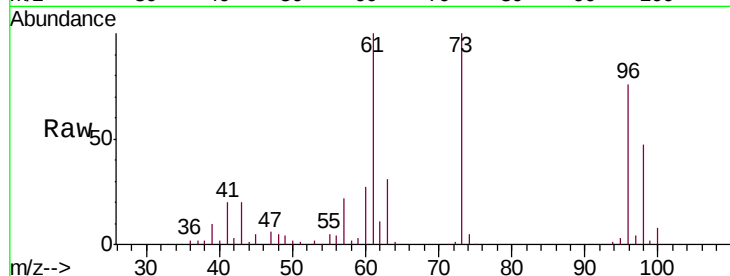




#17
trans-1,2-Dichloroethene
Concen: 49.462 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV008968.D
Acq: 15 Dec 2018 06:39

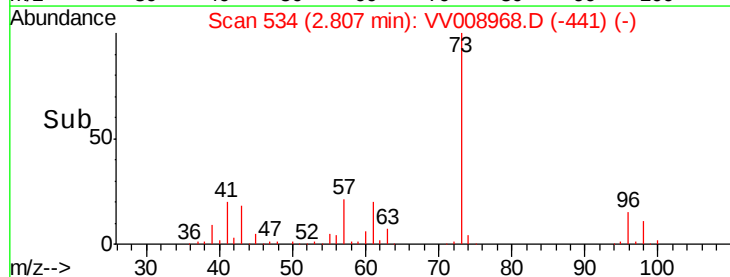
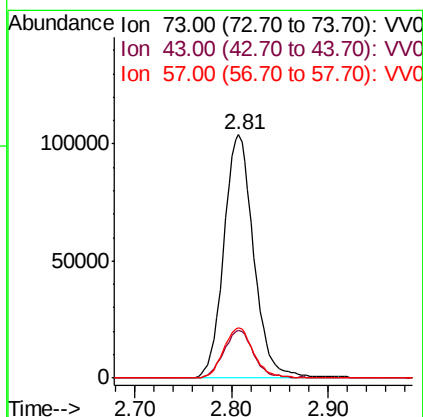
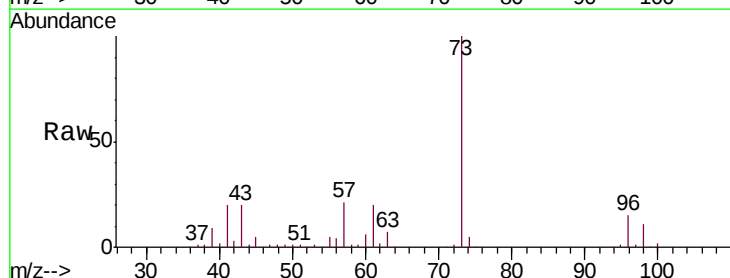
Instrument :
MSVOA_V
ClientSampleId :
VSTD05080

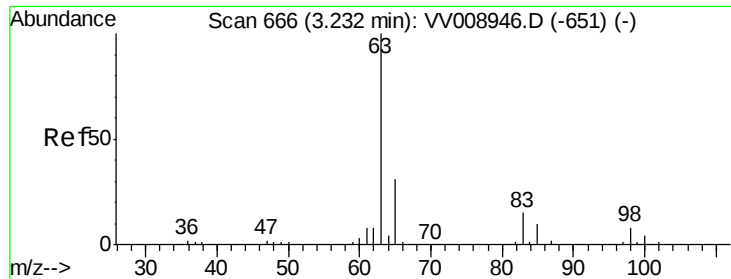
Tgt Ion: 96 Resp: 67724
Ion Ratio Lower Upper
96 100
61 131.5 90.8 168.6
98 62.1 44.2 82.0



#18
Methyl tert-butyl Ether
Concen: 51.192 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV008968.D
Acq: 15 Dec 2018 06:39

Tgt Ion: 73 Resp: 223126
Ion Ratio Lower Upper
73 100
43 19.6 15.4 23.2
57 20.8 16.9 25.3

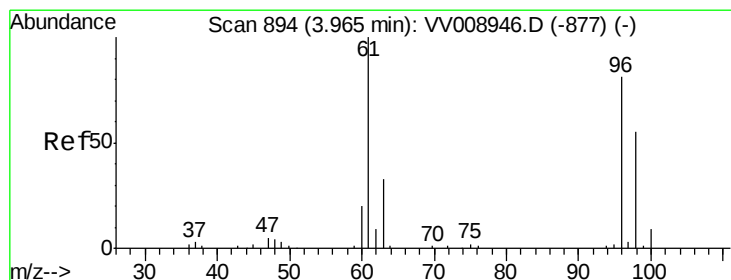
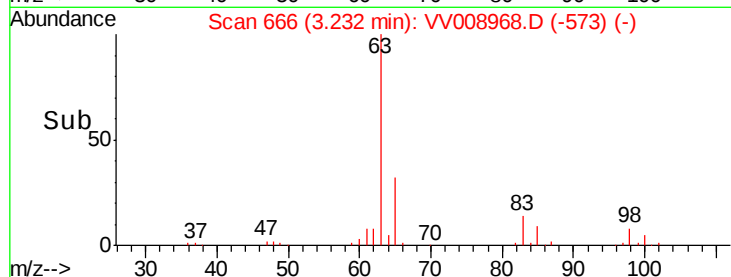
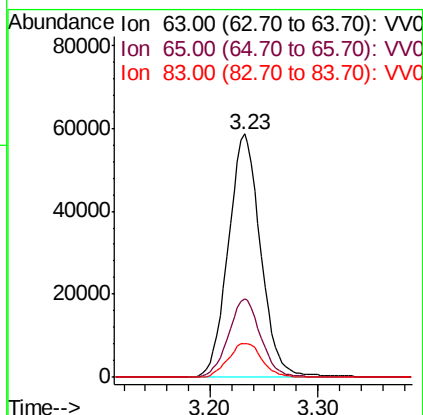
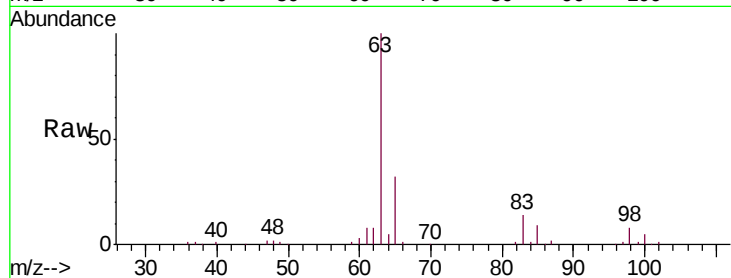




#19
 1,1-Dichloroethane
 Concen: 50.635 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. -0.00 min
 Lab File: VV008968.D
 Acq: 15 Dec 2018 06:39

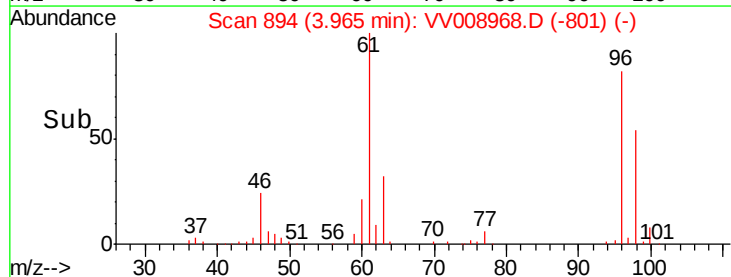
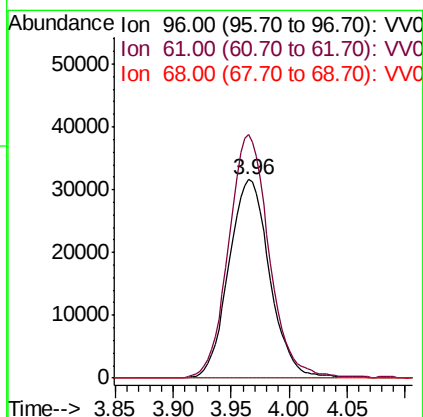
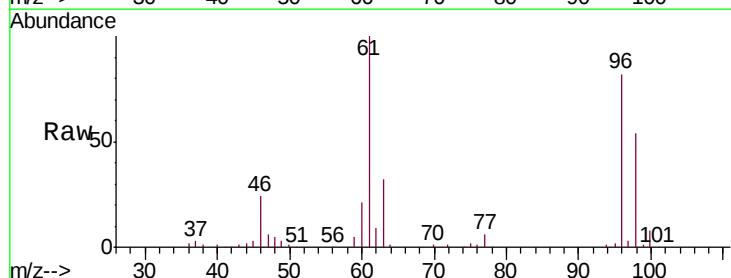
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05080

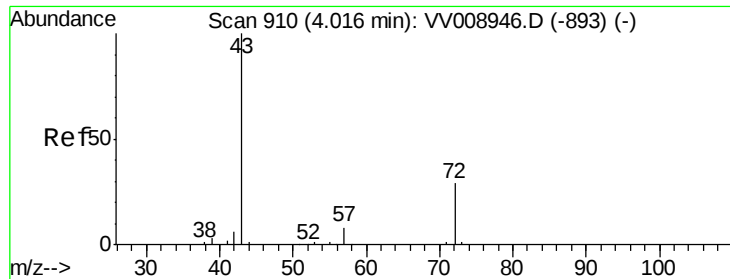
Tgt Ion: 63 Resp: 122388
 Ion Ratio Lower Upper
 63 100
 65 32.5 21.8 40.6
 83 14.1 9.7 18.1



#20
 cis-1,2-Dichloroethene
 Concen: 49.159 ug/L
 RT: 3.96 min Scan# 894
 Delta R.T. -0.00 min
 Lab File: VV008968.D
 Acq: 15 Dec 2018 06:39

Tgt Ion: 96 Resp: 77217
 Ion Ratio Lower Upper
 96 100
 61 122.6 81.9 152.1
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 89.722 ug/L

RT: 4.02 min Scan# 910

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

Instrument :

MSVOA_V

ClientSampleId :

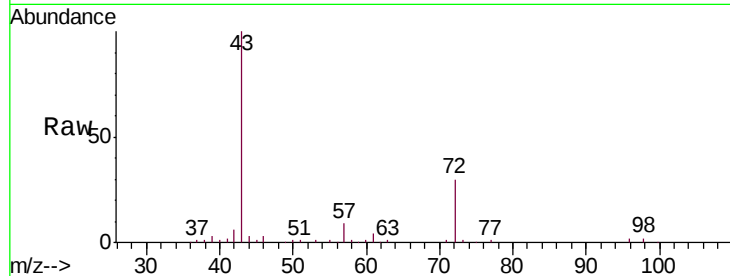
VSTD05080

Tgt Ion: 43 Resp: 96232

Ion Ratio Lower Upper

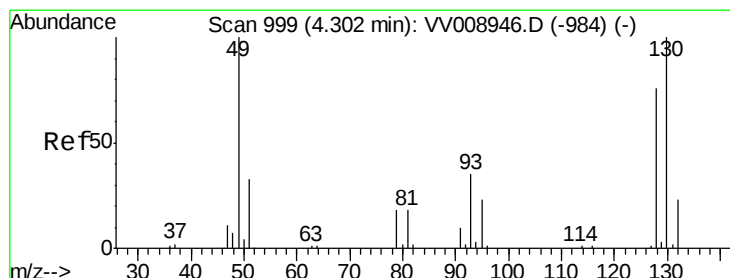
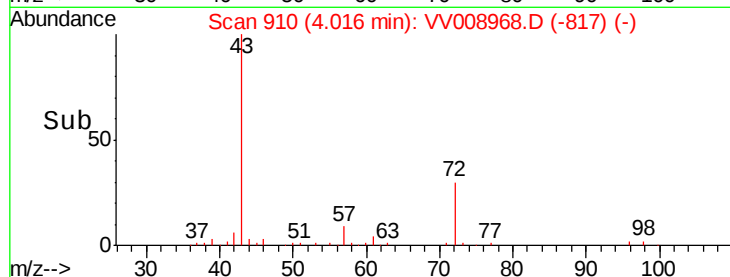
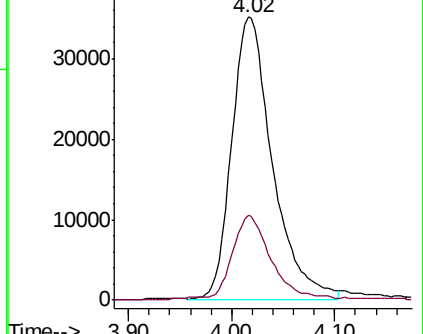
43 100

72 26.6 14.9 44.5



Abundance Ion 43.00 (42.70 to 43.70): VV008946.D (-893) (-)

Ion 72.00 (71.70 to 72.70): VV008946.D (-893) (-)



#23

Bromochloromethane

Concen: 50.315 ug/L

RT: 4.30 min Scan# 999

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

Tgt Ion: 128 Resp: 41363

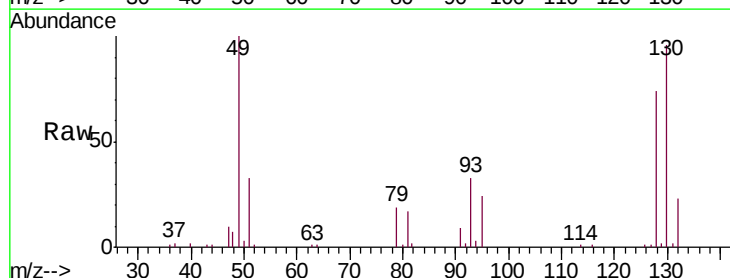
Ion Ratio Lower Upper

128 100

49 135.2 91.6 170.0

130 129.9 86.2 160.0

51 44.0 32.7 49.1

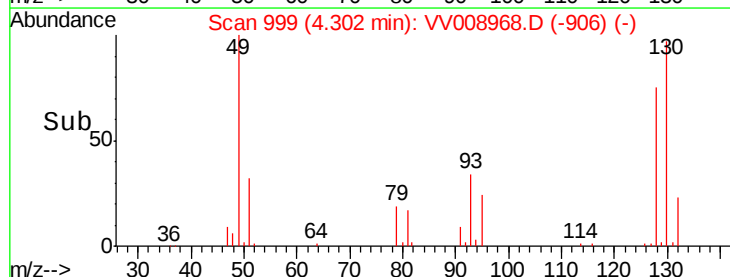
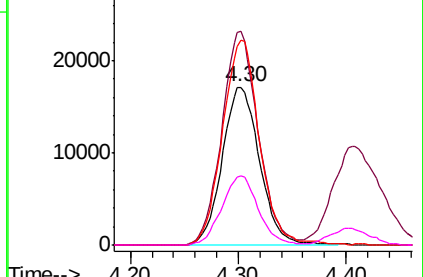


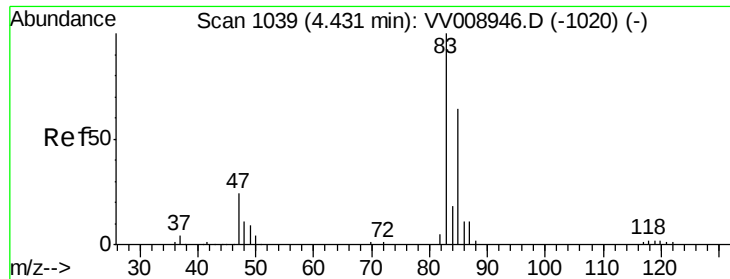
Abundance Ion 128.00 (127.70 to 128.70): VV008946.D (-984) (-)

Ion 49.00 (48.70 to 49.70): VV008946.D (-984) (-)

Ion 130.00 (129.70 to 130.70): VV008946.D (-984) (-)

Ion 51.00 (50.70 to 51.70): VV008946.D (-984) (-)

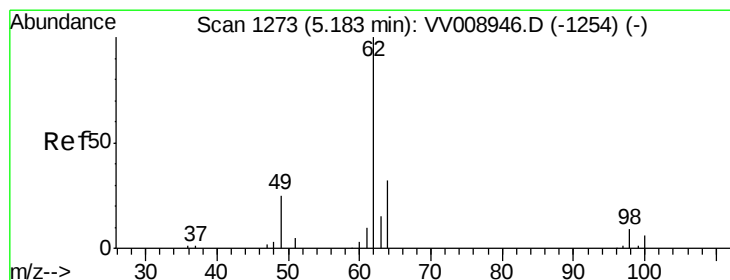
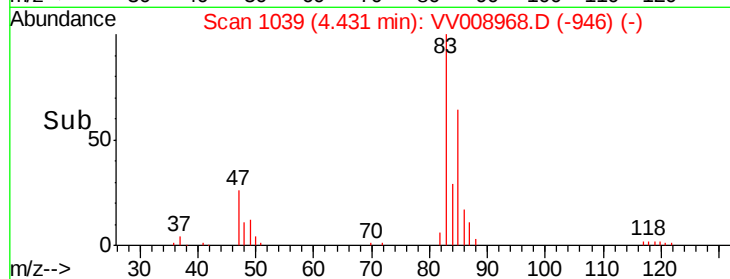
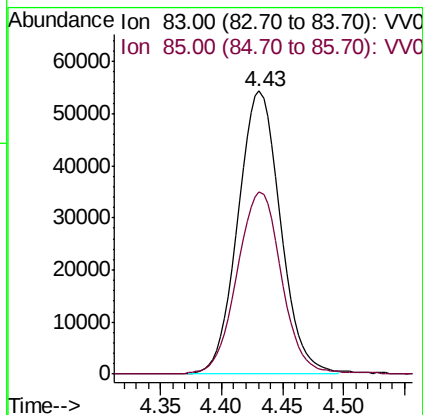
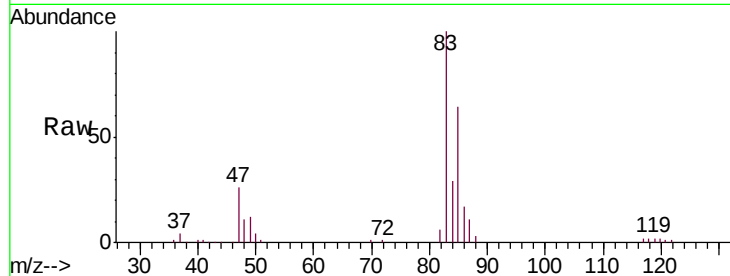




#25
Chloroform
Concen: 48.696 ug/L
RT: 4.43 min Scan# 1039
Delta R.T. -0.00 min
Lab File: VV008968.D
Acq: 15 Dec 2018 06:39

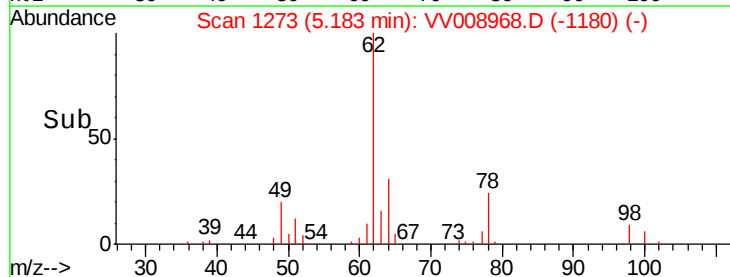
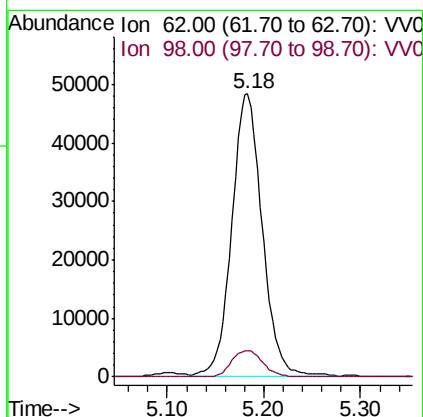
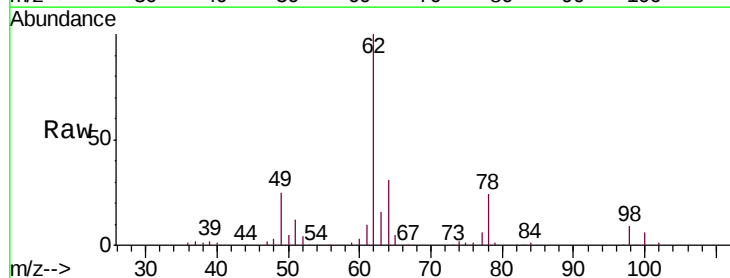
Instrument :
MSVOA_V
ClientSampleId :
VSTD05080

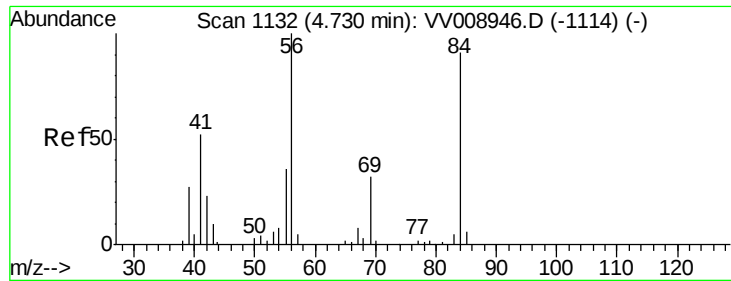
Tgt Ion: 83 Resp: 131217
Ion Ratio Lower Upper
83 100
85 64.2 44.3 82.3



#27
1,2-Dichloroethane
Concen: 50.599 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. -0.00 min
Lab File: VV008968.D
Acq: 15 Dec 2018 06:39

Tgt Ion: 62 Resp: 105934
Ion Ratio Lower Upper
62 100
98 9.4 7.5 11.3

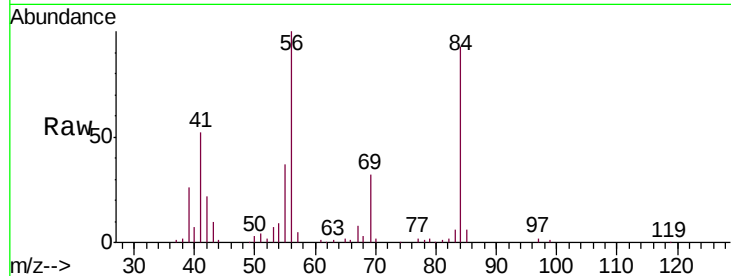




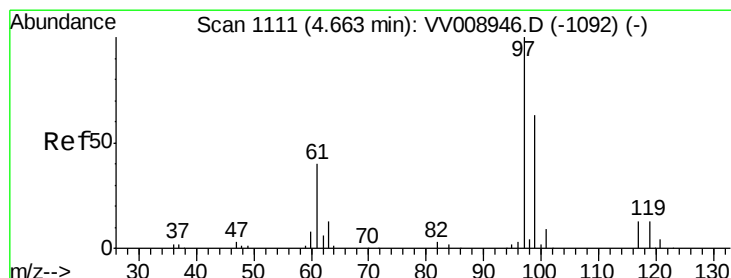
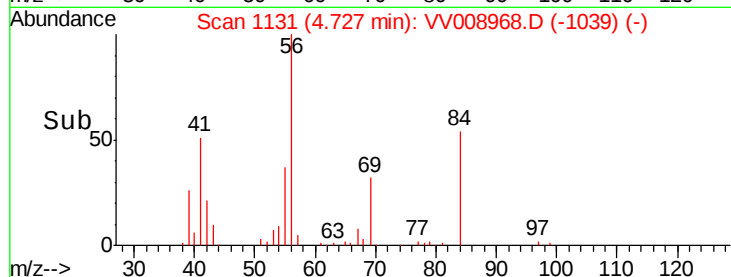
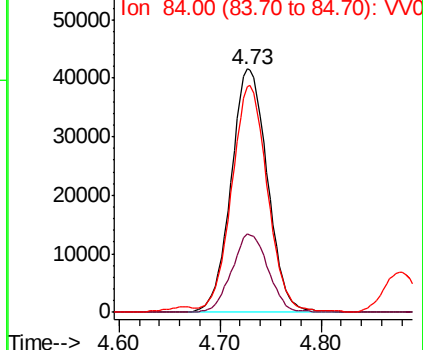
#29
Cyclohexane
Concen: 47.776 ug/L
RT: 4.73 min Scan# 1131
Delta R.T. -0.00 min
Lab File: VV008968.D
Acq: 15 Dec 2018 06:39

Instrument :
MSVOA_V
ClientSampleId :
VSTD05080

Tgt Ion: 56 Resp: 104035
Ion Ratio Lower Upper
56 100
69 32.0 26.0 39.0
84 90.6 70.9 106.3

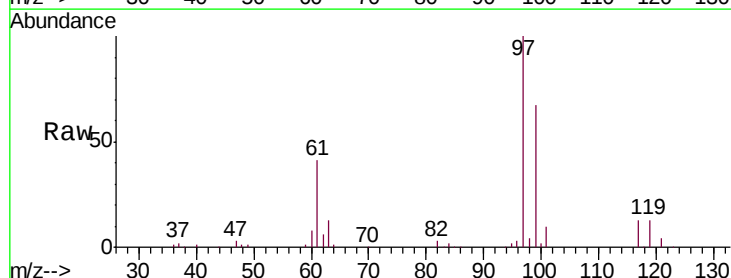


Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0

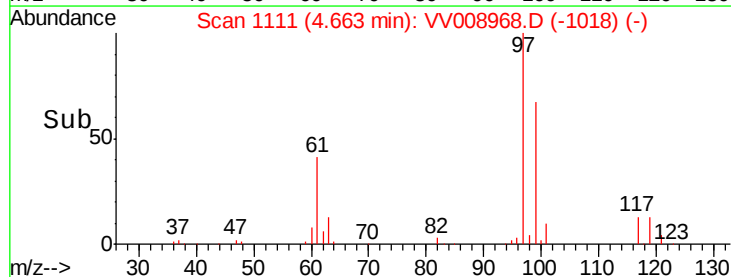
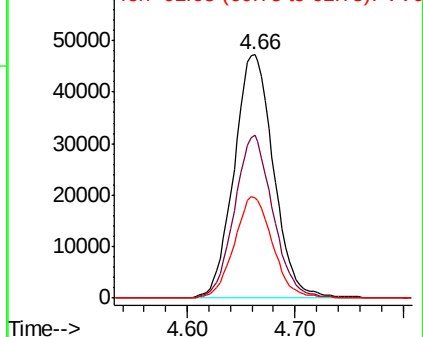


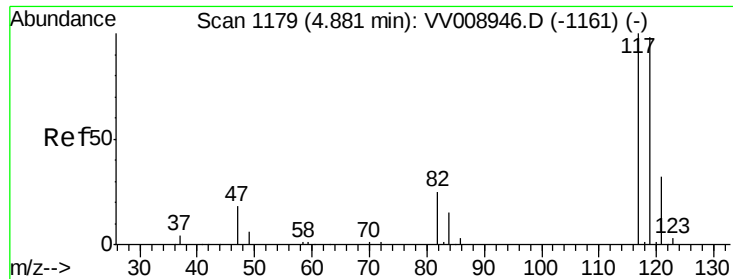
#30
1,1,1-Trichloroethane
Concen: 48.070 ug/L
RT: 4.66 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VV008968.D
Acq: 15 Dec 2018 06:39

Tgt Ion: 97 Resp: 120410
Ion Ratio Lower Upper
97 100
99 65.1 51.7 77.5
61 40.4 32.5 48.7



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0

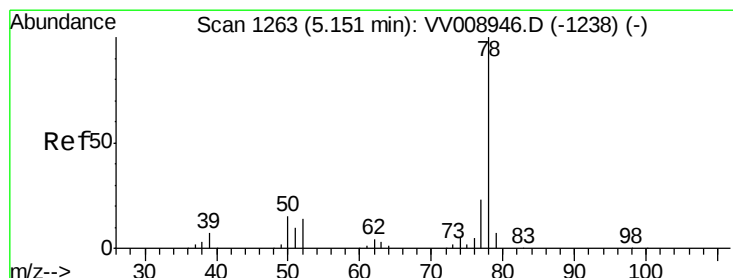
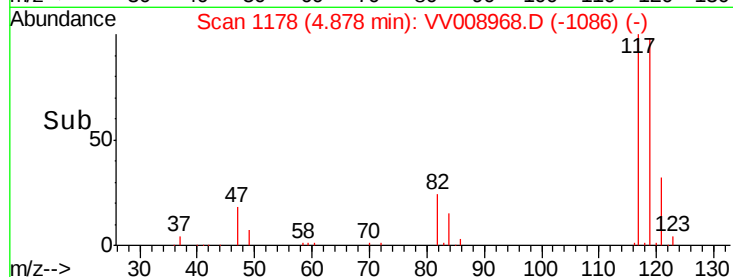
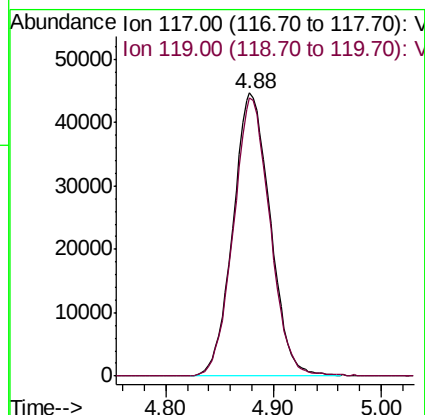
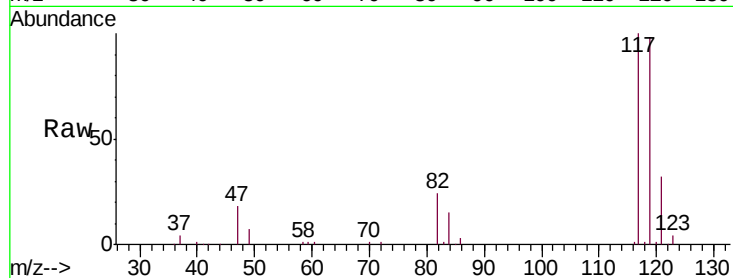




#31
Carbon tetrachloride
Concen: 47.454 ug/L
RT: 4.88 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VV008968.D
Acq: 15 Dec 2018 06:39

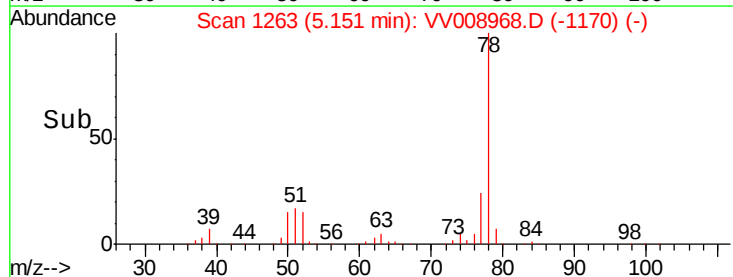
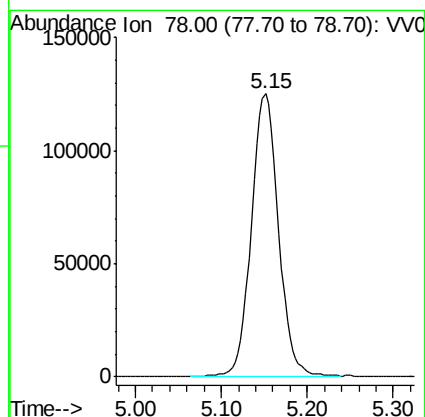
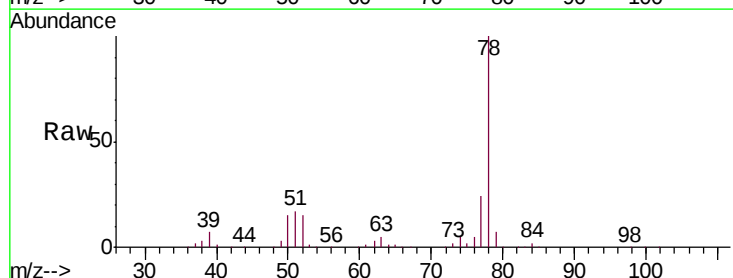
Instrument :
MSVOA_V
ClientSampleId :
VSTD05080

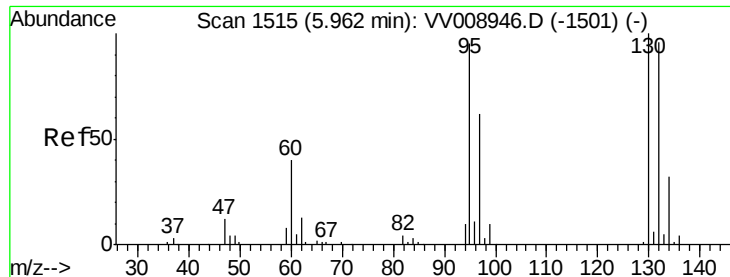
Tgt Ion:117 Resp: 107326
Ion Ratio Lower Upper
117 100
119 96.0 77.7 116.5



#33
Benzene
Concen: 48.982 ug/L
RT: 5.15 min Scan# 1263
Delta R.T. -0.00 min
Lab File: VV008968.D
Acq: 15 Dec 2018 06:39

Tgt Ion: 78 Resp: 276015





#34

Trichloroethene

Concen: 49.901 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05080

Tgt Ion: 95 Resp: 81177

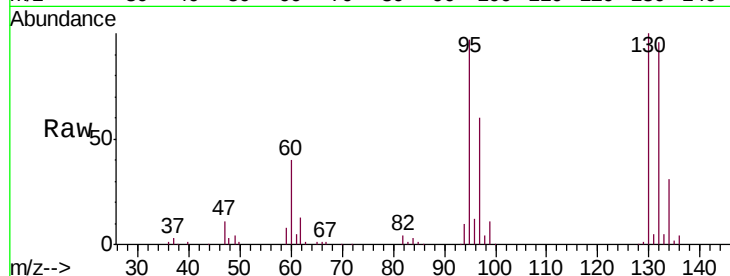
Ion Ratio Lower Upper

95 100

97 61.9 45.7 84.9

132 99.0 72.2 134.2

130 103.1 73.8 137.2

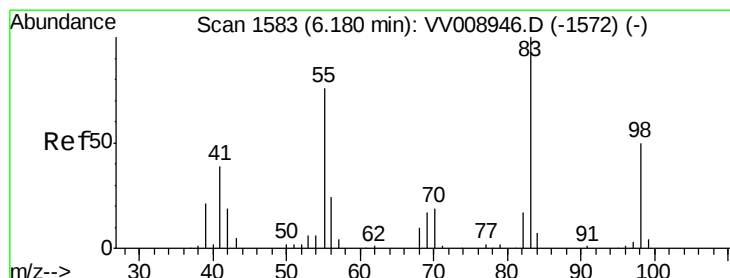
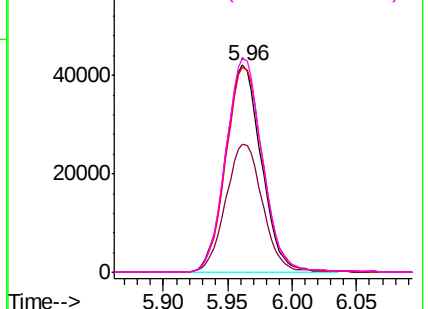
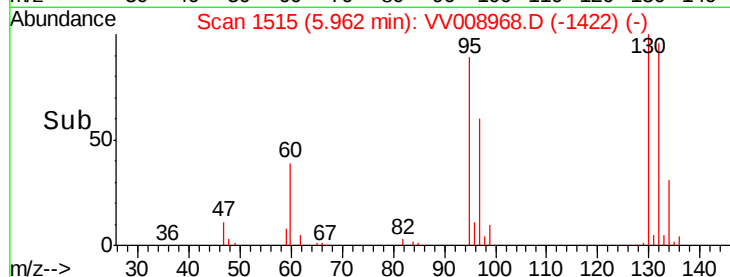


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 48.097 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

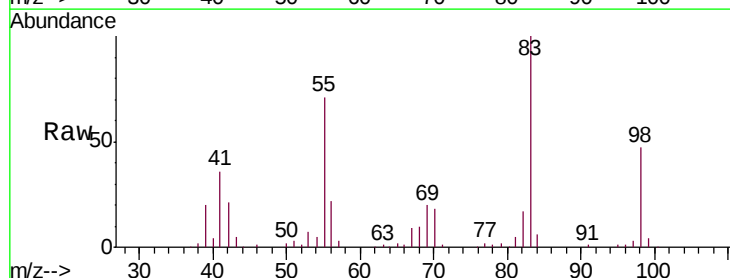
Tgt Ion: 83 Resp: 116029

Ion Ratio Lower Upper

83 100

55 72.1 57.8 86.8

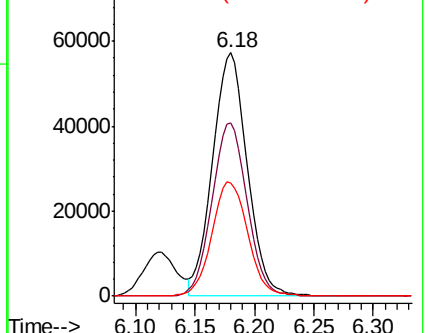
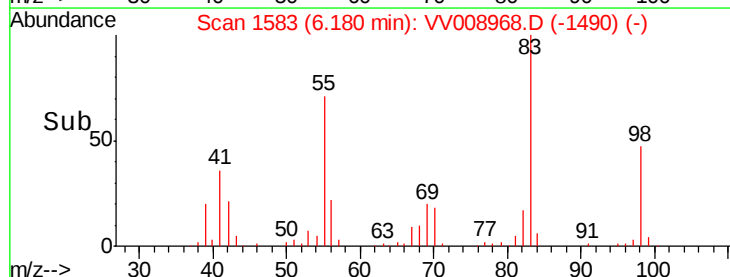
98 48.6 39.0 58.4

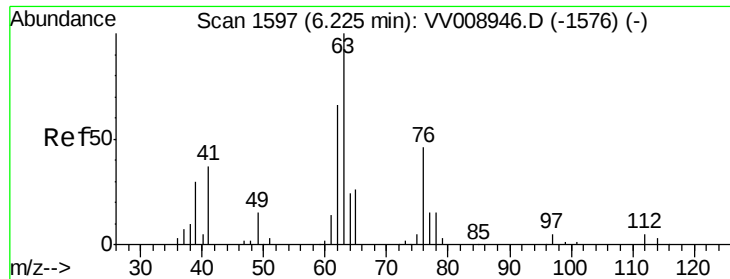


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

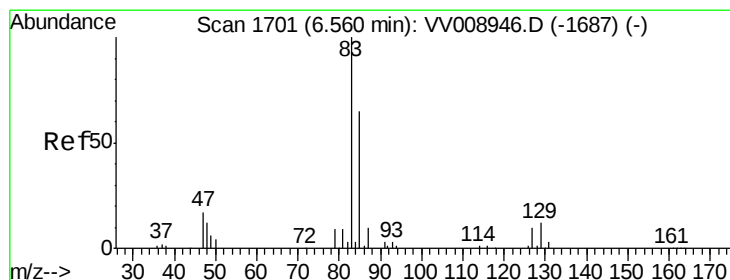
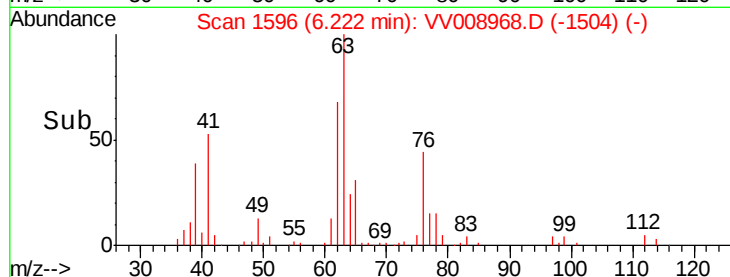
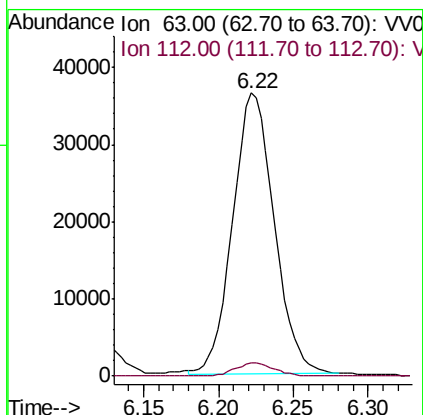
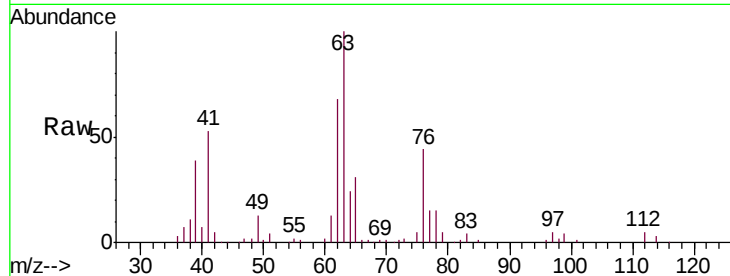




#37
 1,2-Dichloropropane
 Concen: 48.527 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. -0.00 min
 Lab File: VV008968.D
 Acq: 15 Dec 2018 06:39

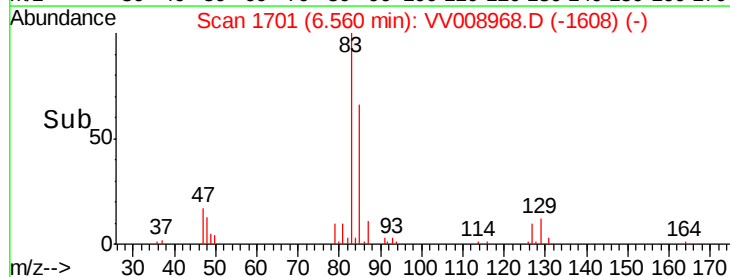
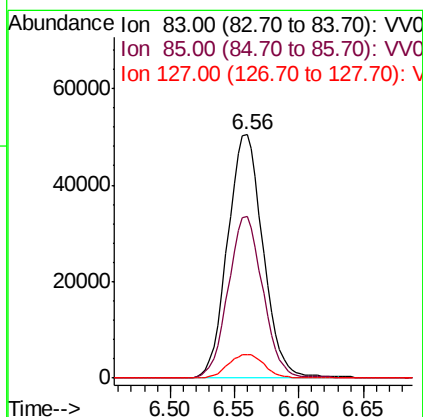
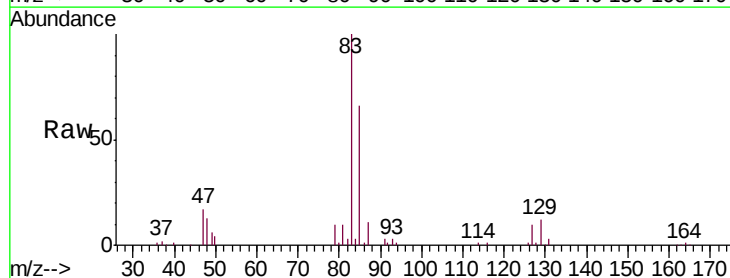
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05080

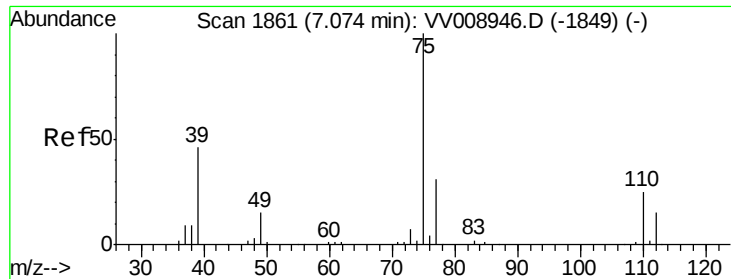
Tgt Ion: 63 Resp: 70697
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.8 5.6



#38
 Bromodichloromethane
 Concen: 47.810 ug/L
 RT: 6.56 min Scan# 1701
 Delta R.T. -0.00 min
 Lab File: VV008968.D
 Acq: 15 Dec 2018 06:39

Tgt Ion: 83 Resp: 96393
 Ion Ratio Lower Upper
 83 100
 85 66.2 45.8 85.0
 127 9.8 7.4 11.0

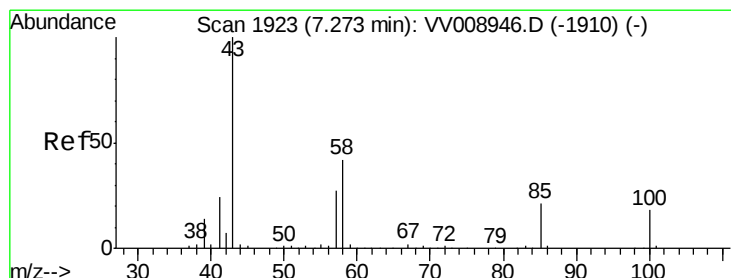
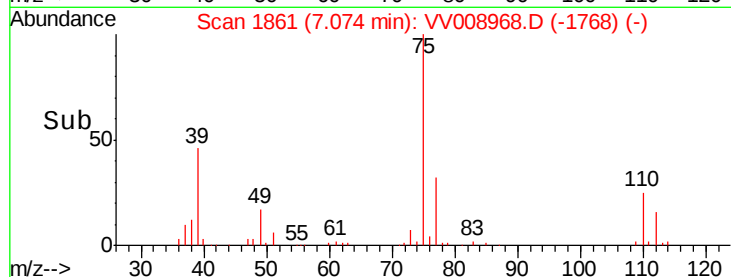
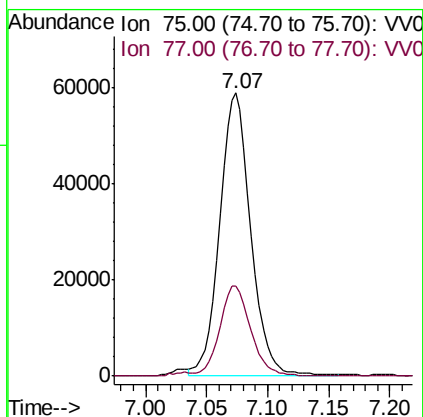
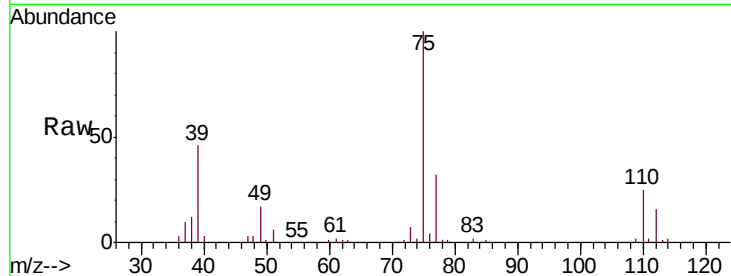




#39
 cis-1,3-Dichloropropene
 Concen: 45.380 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VV008968.D
 Acq: 15 Dec 2018 06:39

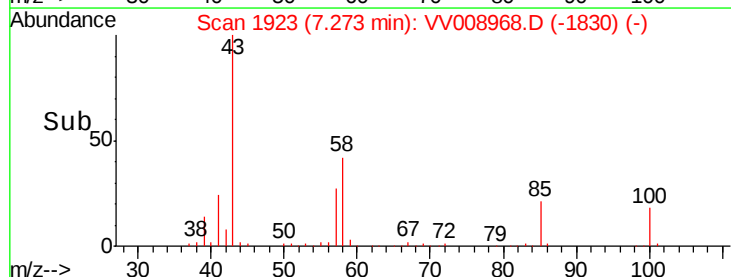
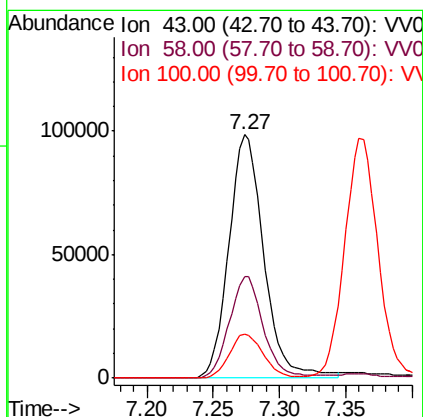
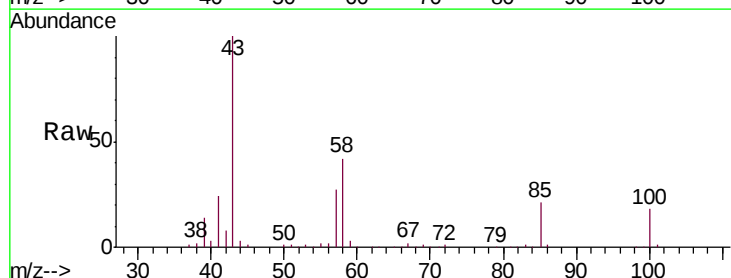
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05080

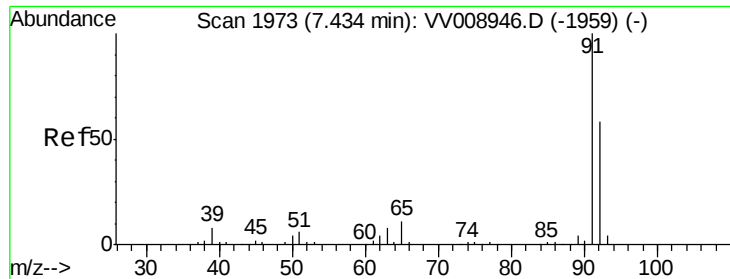
Tgt Ion: 75 Resp: 105435
 Ion Ratio Lower Upper
 75 100
 77 32.0 21.8 40.4



#40
 4-Methyl-2-pentanone
 Concen: 107.476 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. -0.00 min
 Lab File: VV008968.D
 Acq: 15 Dec 2018 06:39

Tgt Ion: 43 Resp: 180895
 Ion Ratio Lower Upper
 43 100
 58 40.6 33.4 50.0
 100 17.6 13.9 20.9





#42

Toluene

Concen: 49.822 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

Instrument :

MSVOA_V

ClientSampleId :

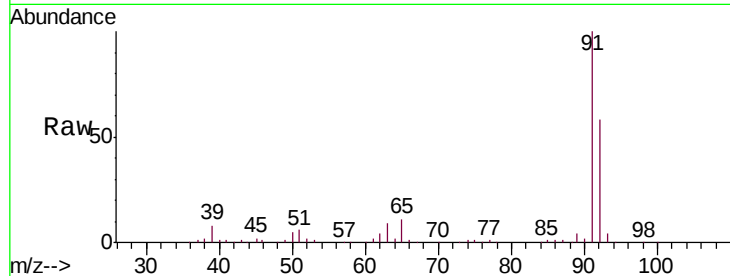
VSTD05080

Tgt Ion: 91 Resp: 299961

Ion Ratio Lower Upper

91 100

92 58.3 40.7 75.5



Abundance Ion 91.00 (90.70 to 91.70): VV008946.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV008946.D (-1959) (-)

7.43

200000

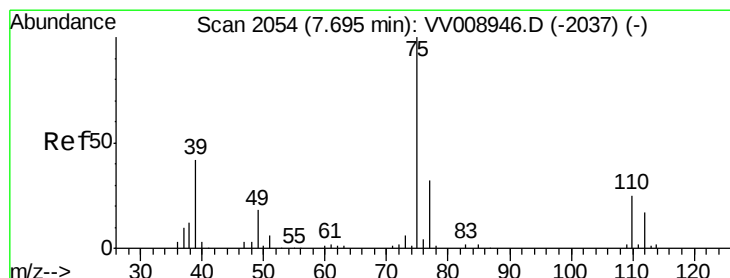
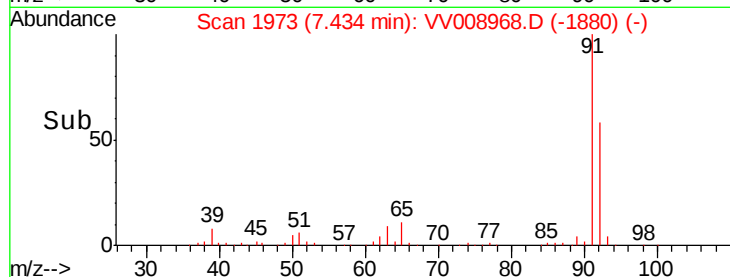
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 46.287 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV008968.D

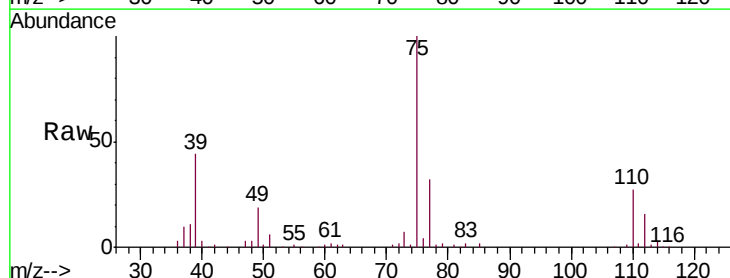
Acq: 15 Dec 2018 06:39

Tgt Ion: 75 Resp: 100242

Ion Ratio Lower Upper

75 100

77 31.6 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV008946.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV008946.D (-2037) (-)

7.69

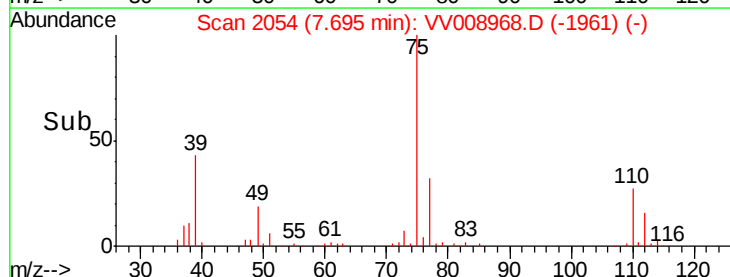
60000

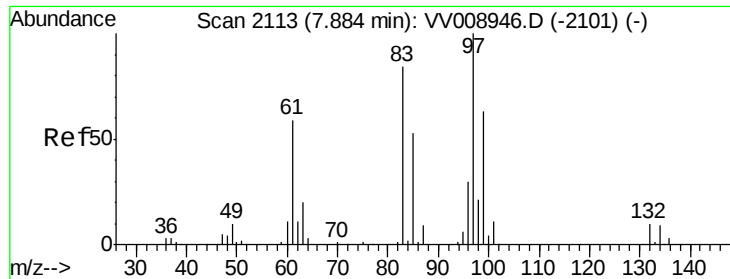
40000

20000

0

Time-->

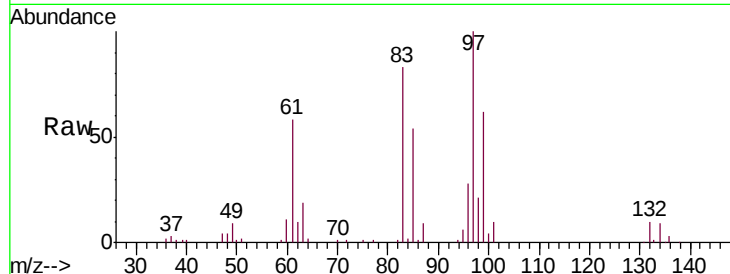




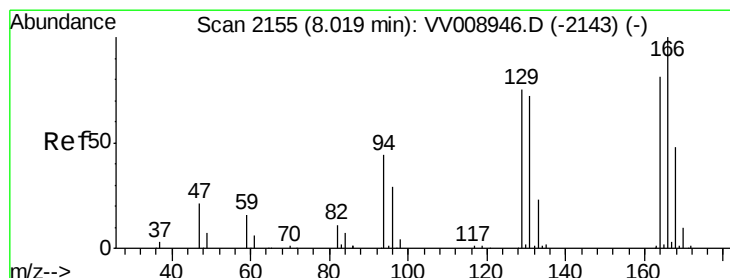
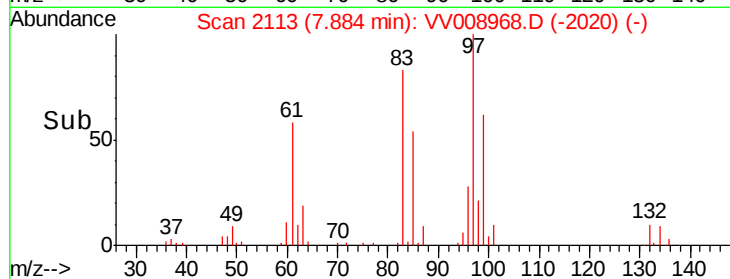
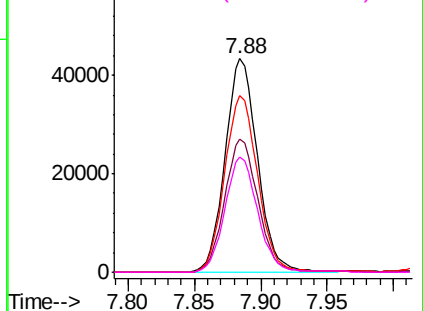
#45
 1,1,2-Trichloroethane
 Concen: 50.063 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VV008968.D
 Acq: 15 Dec 2018 06:39

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05080

Tgt Ion:	97	Resp:	73855
Ion	Ratio	Lower	Upper
97	100		
99	62.5	43.8	81.3
83	82.6	58.8	109.2
85	53.9	38.8	72.0

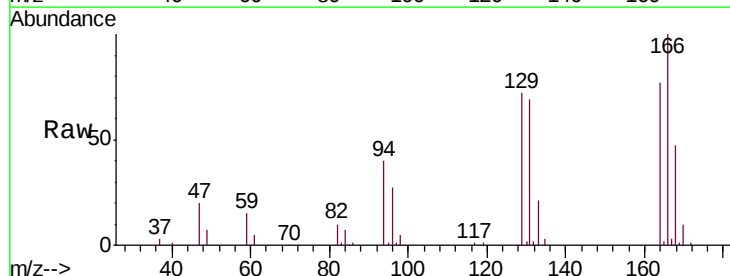


Abundance Ion 97.00 (96.70 to 97.70): VV008946.D (-2101) (-)

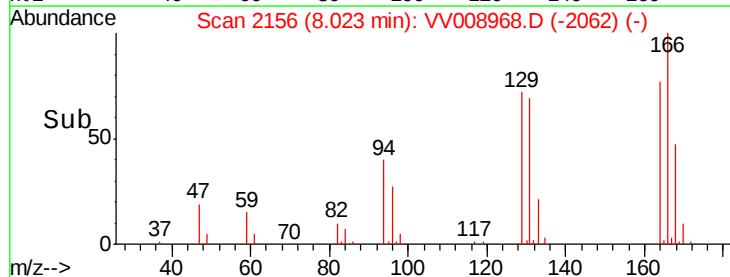
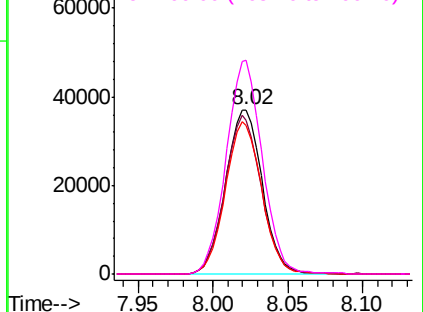


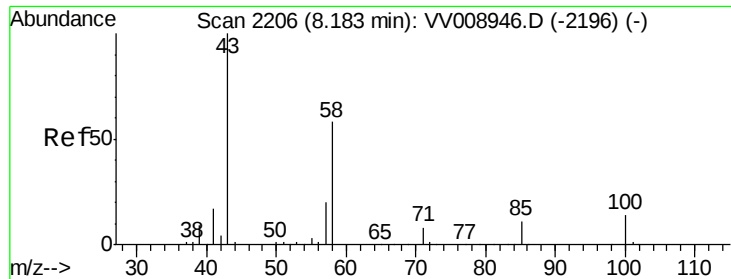
#46
 Tetrachloroethene
 Concen: 49.014 ug/L
 RT: 8.02 min Scan# 2156
 Delta R.T. 0.00 min
 Lab File: VV008968.D
 Acq: 15 Dec 2018 06:39

Tgt Ion:	164	Resp:	63492
Ion	Ratio	Lower	Upper
164	100		
129	94.0	69.2	128.4
131	90.5	67.8	125.8
166	130.3	90.3	167.7



Abundance Ion 164.00 (163.70 to 164.70): VV008946.D (-2143) (-)

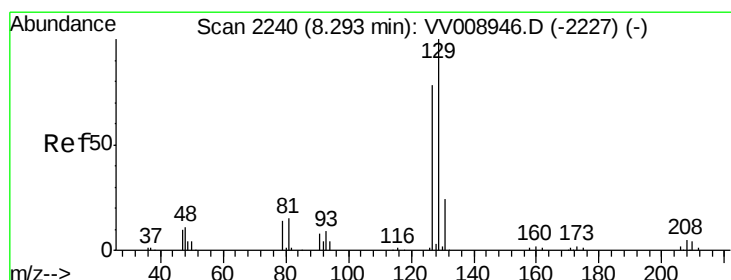
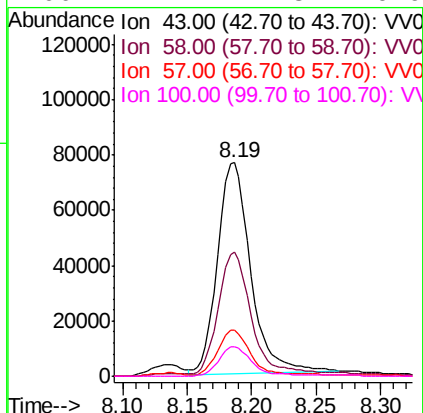
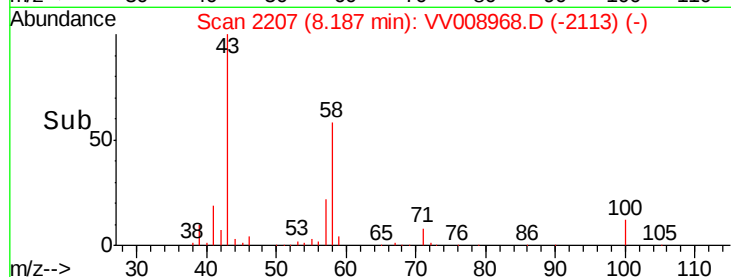
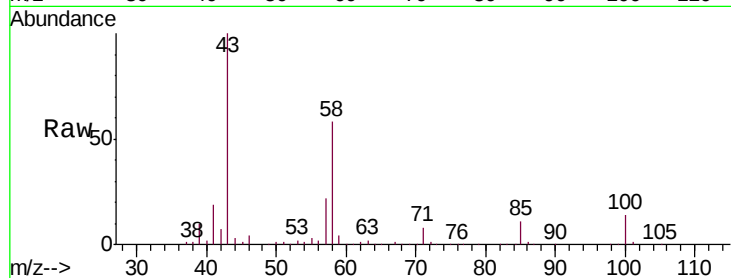




#48
2-Hexanone
Concen: 97.204 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV008968.D
Acq: 15 Dec 2018 06:39

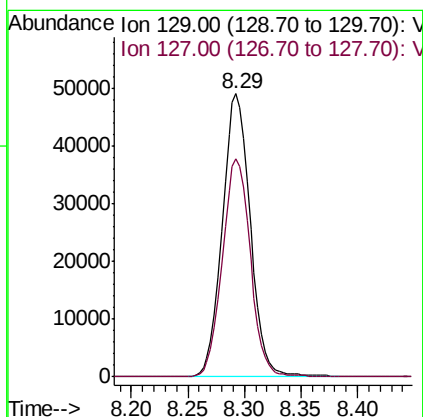
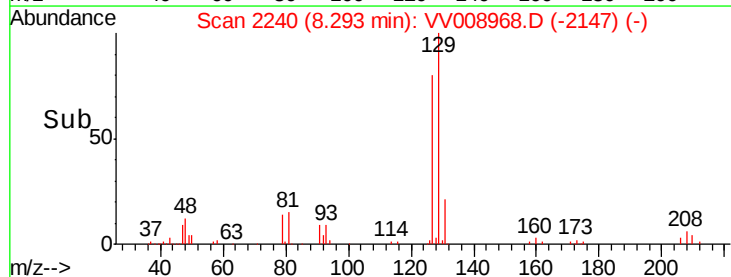
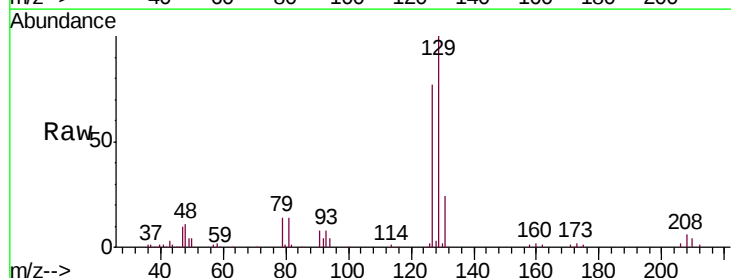
Instrument :
MSVOA_V
ClientSampleId :
VSTD05080

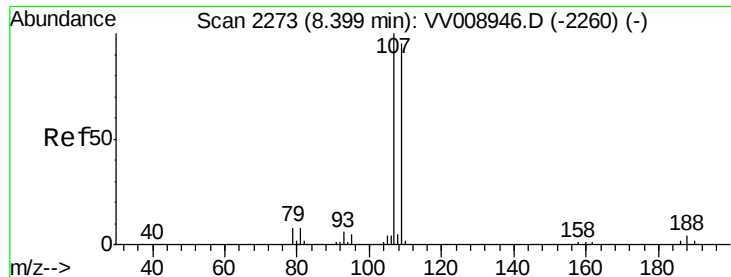
Tgt Ion: 43 Resp: 136250
Ion Ratio Lower Upper
43 100
58 60.0 42.7 64.1
57 21.2 15.7 23.5
100 14.1 11.3 16.9



#49
Dibromochloromethane
Concen: 49.289 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. -0.00 min
Lab File: VV008968.D
Acq: 15 Dec 2018 06:39

Tgt Ion: 129 Resp: 84504
Ion Ratio Lower Upper
129 100
127 77.2 54.5 101.3

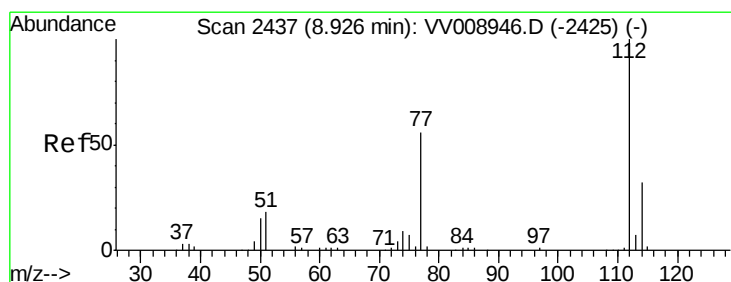
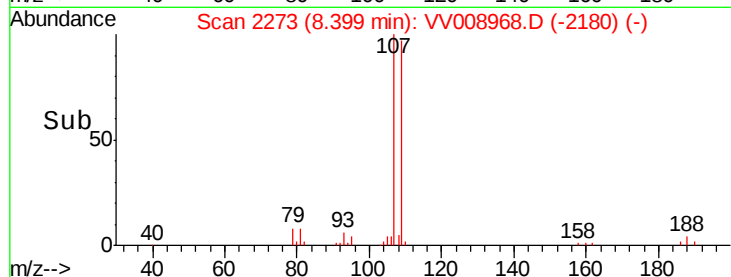
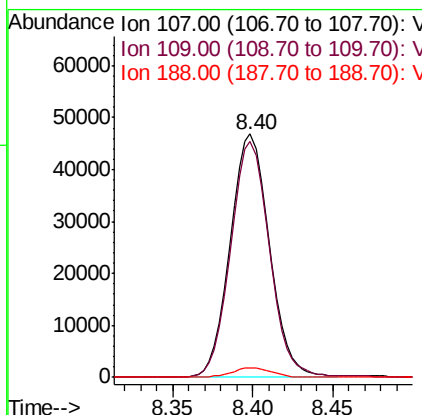
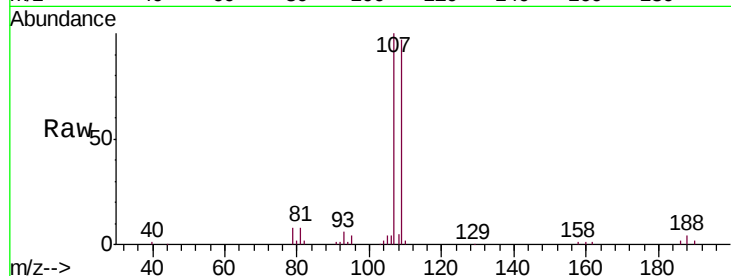




#50
1,2-Dibromoethane
Concen: 49.789 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VV008968.D
Acq: 15 Dec 2018 06:39

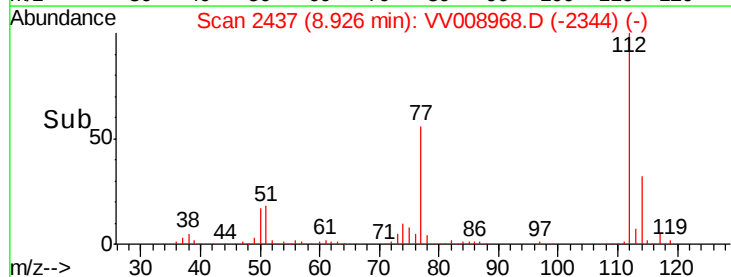
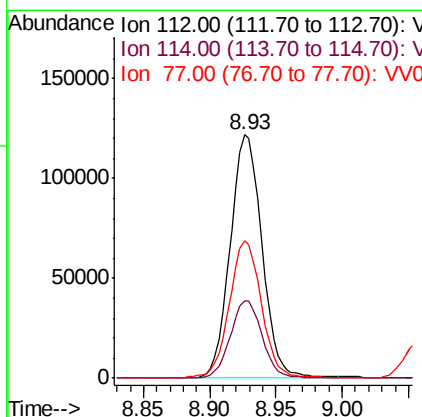
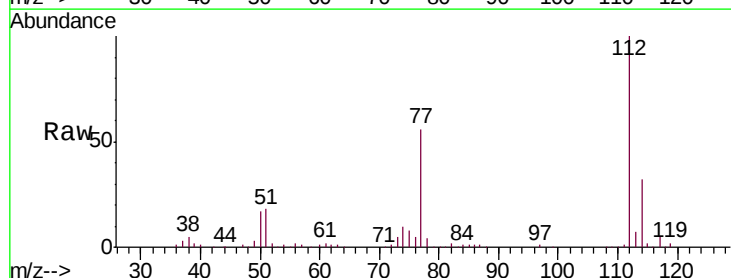
Instrument :
MSVOA_V
ClientSampleId :
VSTD05080

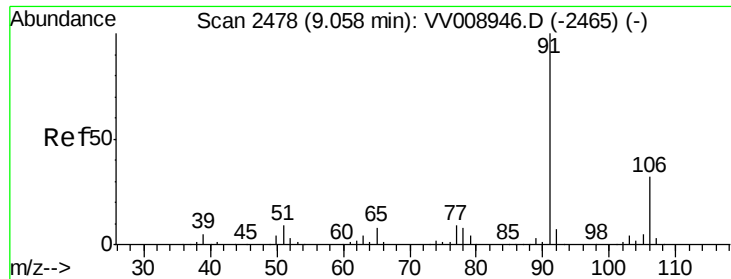
Tgt Ion:107 Resp: 78509
Ion Ratio Lower Upper
107 100
109 96.9 66.1 122.7
188 4.1 2.8 4.2



#51
Chlorobenzene
Concen: 49.490 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. -0.00 min
Lab File: VV008968.D
Acq: 15 Dec 2018 06:39

Tgt Ion:112 Resp: 203597
Ion Ratio Lower Upper
112 100
114 31.9 22.3 41.5
77 56.4 45.2 67.8





#52

Ethylbenzene

Concen: 50.393 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

Instrument :

MSVOA_V

ClientSampleId :

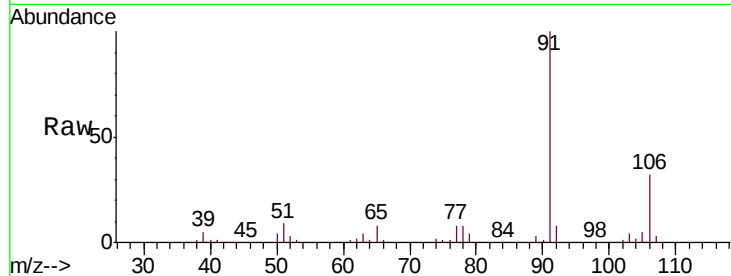
VSTD05080

Tgt Ion: 91 Resp: 334811

Ion Ratio Lower Upper

91 100

106 31.7 22.0 40.8



Abundance Ion 91.00 (90.70 to 91.70): VV008946.D (-2465) (-)

Ion 106.00 (105.70 to 106.70): VV008946.D (-2465) (-)

9.06

200000

150000

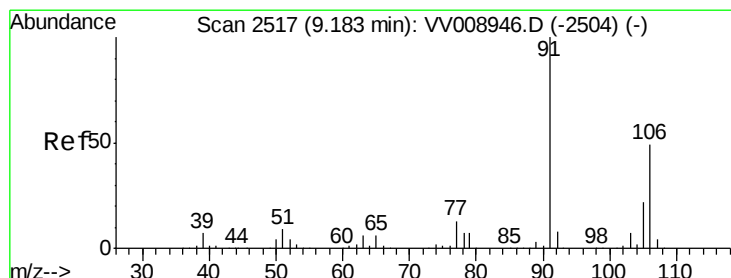
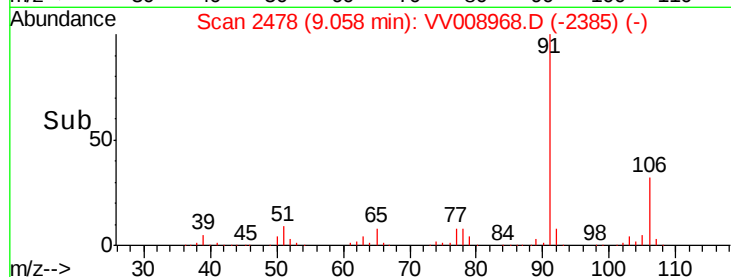
100000

50000

0

9.00 9.05 9.10 9.15

Time-->



#53

m,p-Xylene

Concen: 50.482 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV008968.D

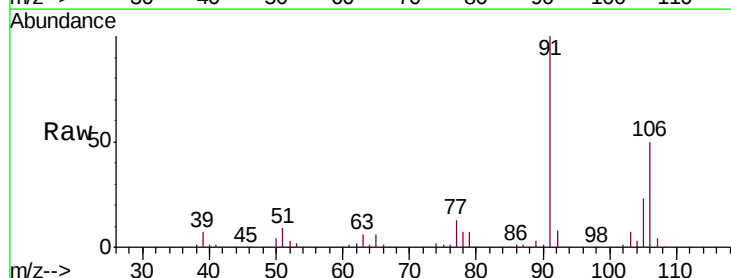
Acq: 15 Dec 2018 06:39

Tgt Ion: 106 Resp: 127900

Ion Ratio Lower Upper

106 100

91 201.3 142.9 265.3



Abundance Ion 106.00 (105.70 to 106.70): VV008946.D (-2504) (-)

Ion 91.00 (90.70 to 91.70): VV008946.D (-2504) (-)

9.18

150000

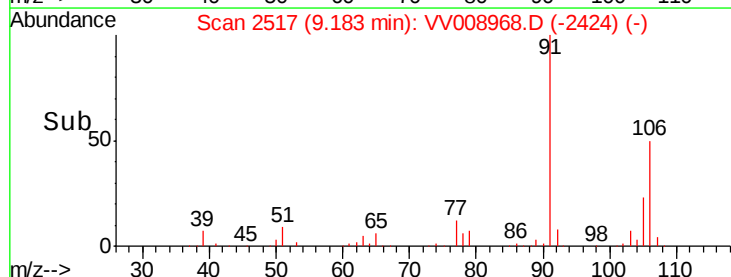
100000

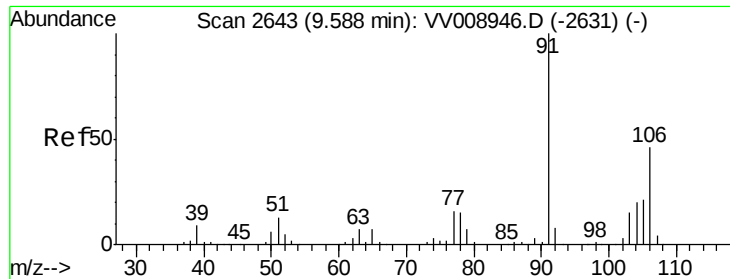
50000

0

9.10 9.15 9.20 9.25

Time-->

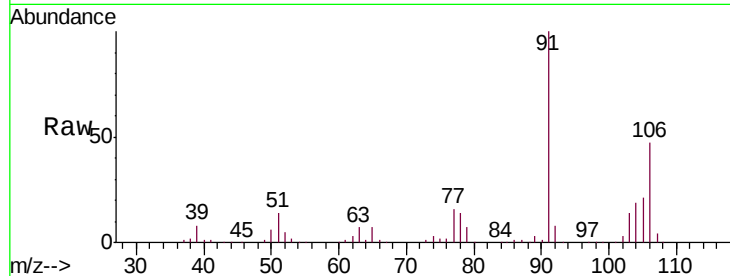




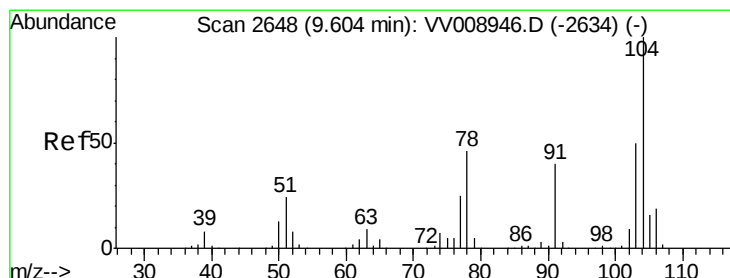
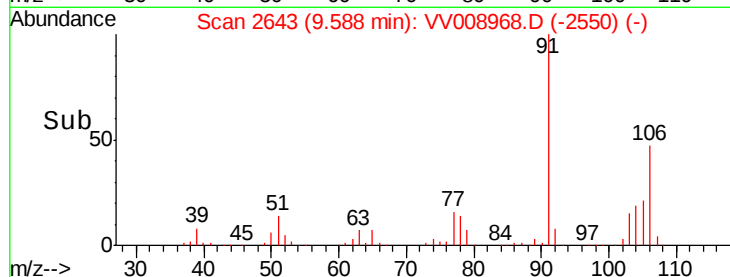
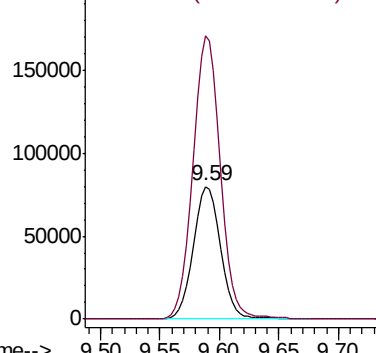
#54
o-xylene
Concen: 50.889 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV008968.D
Acq: 15 Dec 2018 06:39

Instrument :
MSVOA_V
ClientSampleId :
VSTD05080

Tgt Ion:106 Resp: 127525
Ion Ratio Lower Upper
106 100
91 213.3 153.4 284.8

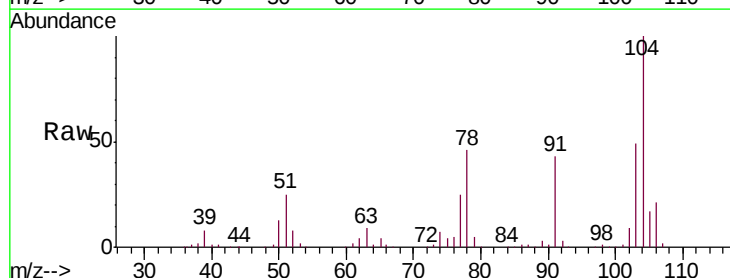


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

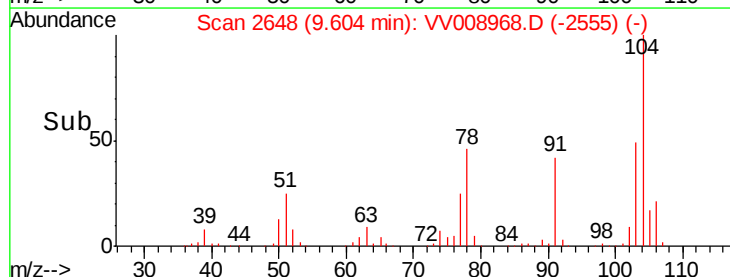
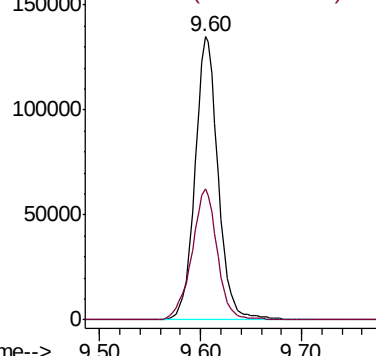


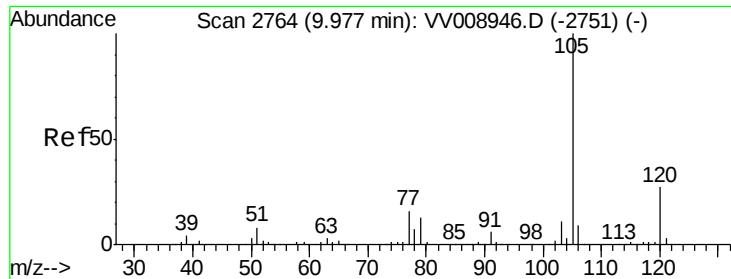
#55
Styrene
Concen: 52.110 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV008968.D
Acq: 15 Dec 2018 06:39

Tgt Ion:104 Resp: 215899
Ion Ratio Lower Upper
104 100
78 46.2 31.6 58.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 50.228 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05080

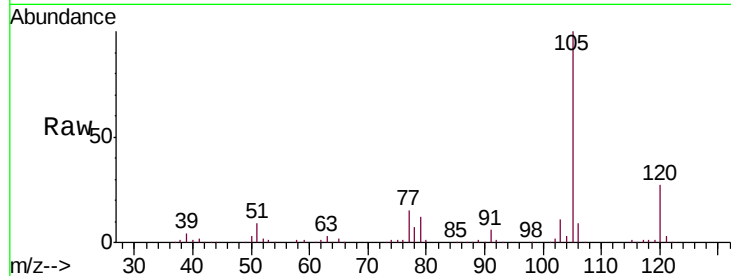
Tgt Ion: 105 Resp: 332239

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.2

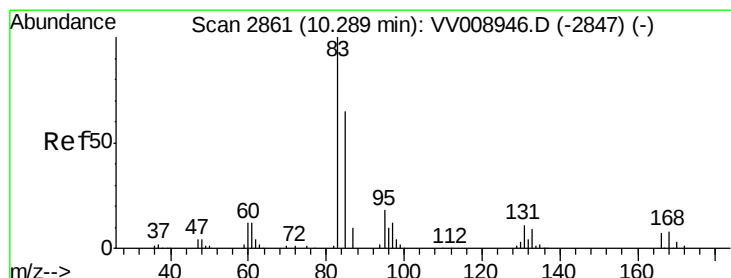
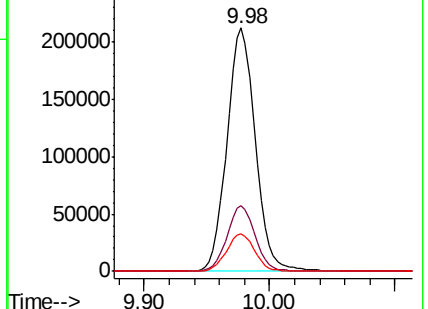
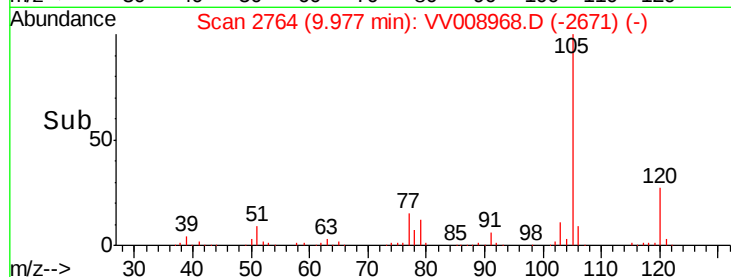
77 15.5 12.2 18.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 49.996 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

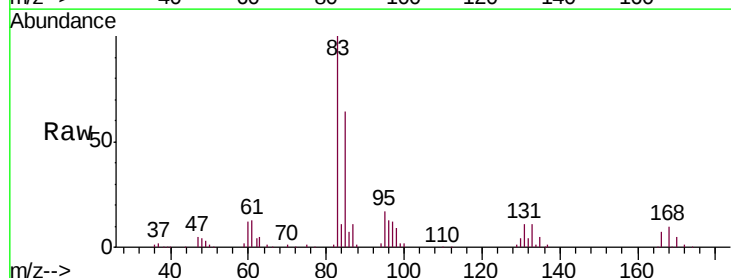
Tgt Ion: 83 Resp: 108350

Ion Ratio Lower Upper

83 100

85 64.4 45.3 84.1

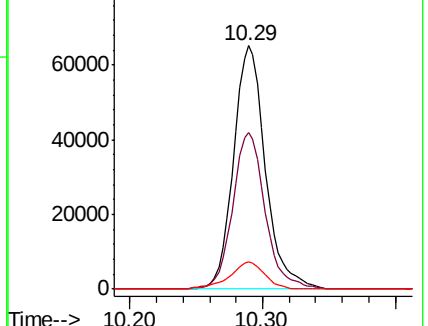
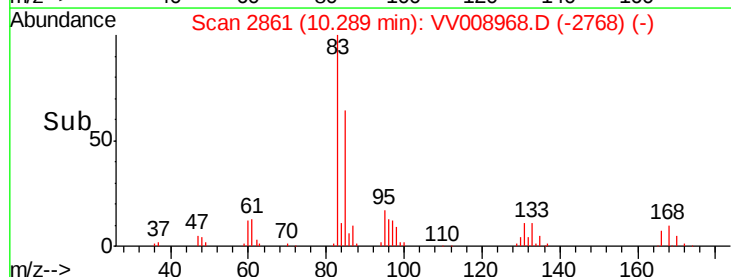
131 11.1 9.2 13.8

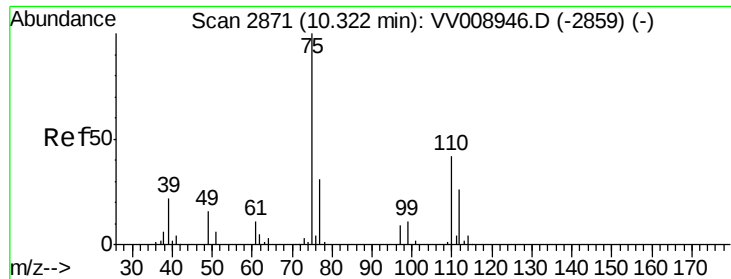


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 51.542 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

Instrument :

MSVOA_V

ClientSampleId :

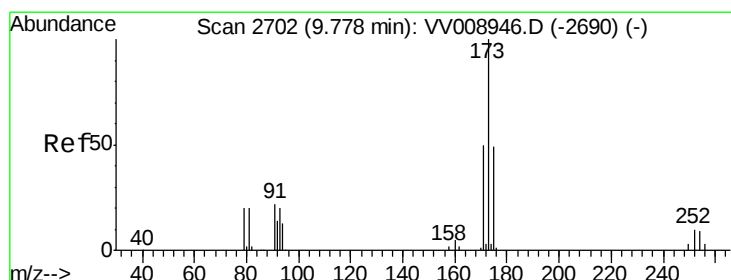
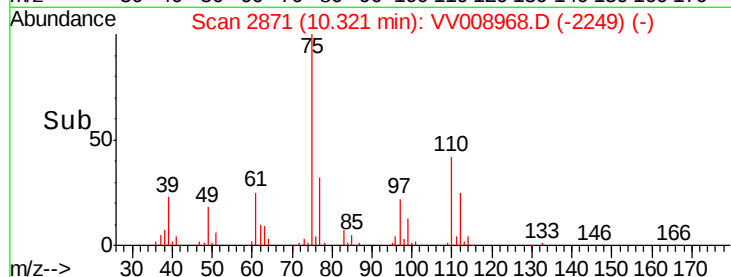
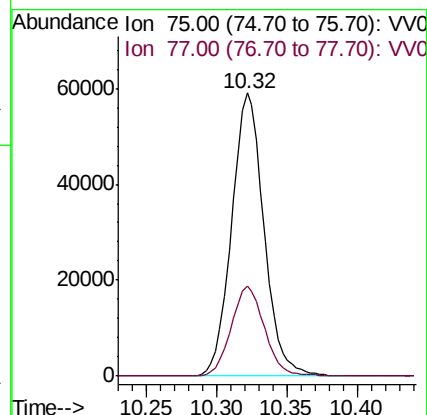
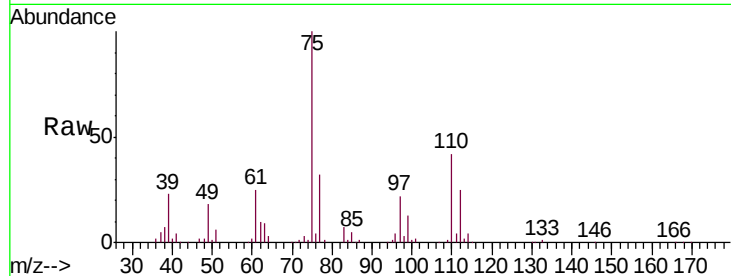
VSTD05080

Tgt Ion: 75 Resp: 94564

Ion Ratio Lower Upper

75 100

77 32.8 25.8 38.8



#61

Bromoform

Concen: 45.851 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

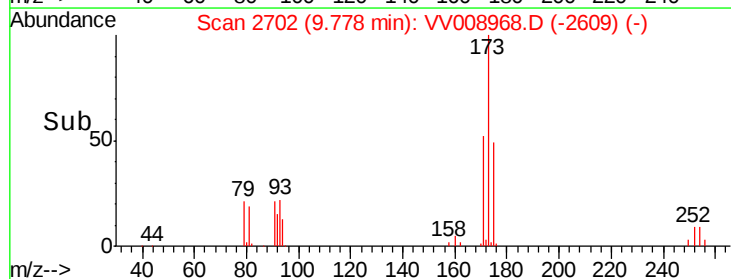
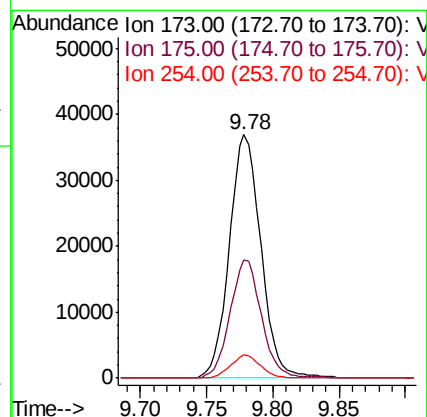
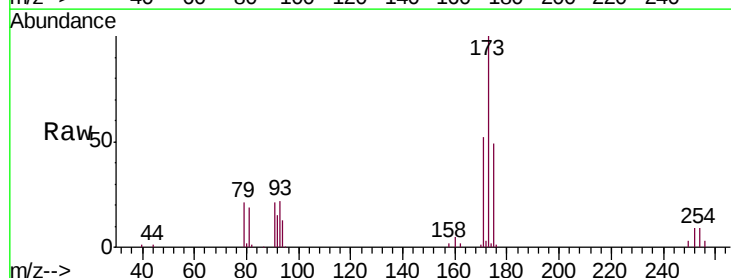
Tgt Ion: 173 Resp: 61157

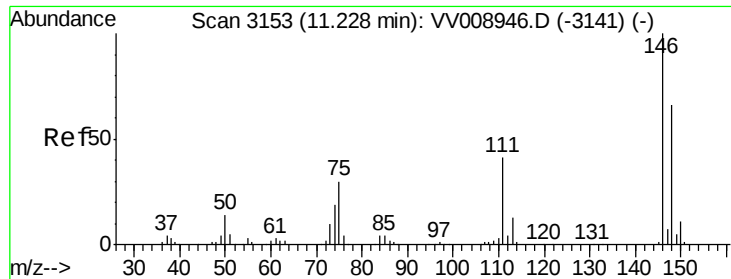
Ion Ratio Lower Upper

173 100

175 48.1 38.6 57.8

254 8.9 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 48.632 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05080

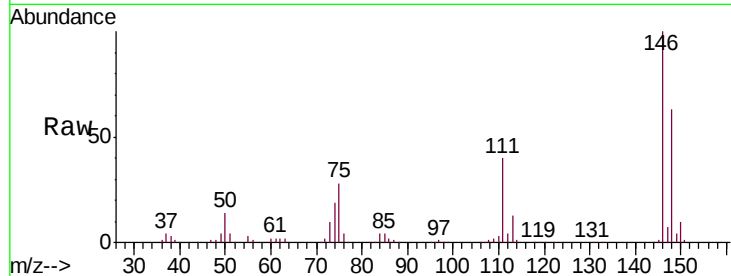
Tgt Ion:146 Resp: 161850

Ion Ratio Lower Upper

146 100

111 39.9 28.3 52.7

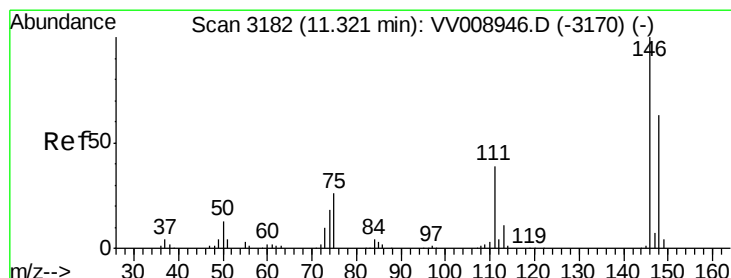
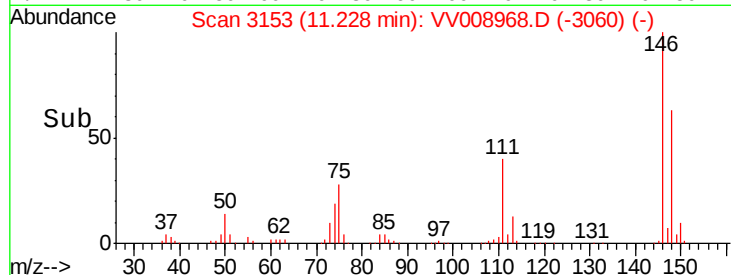
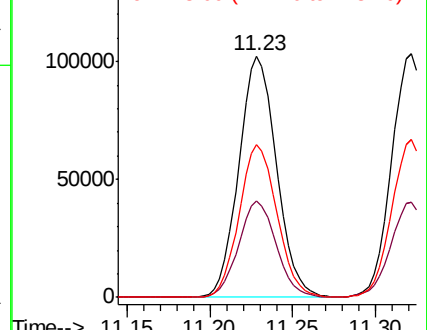
148 63.2 44.9 83.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 48.588 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

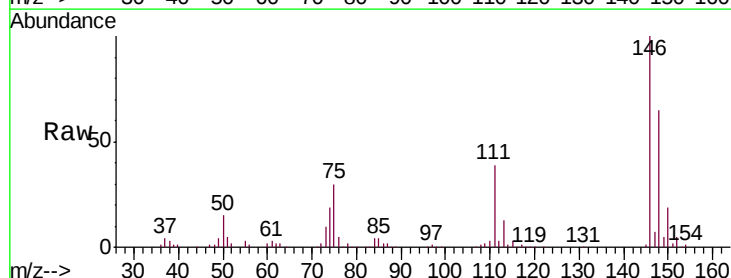
Tgt Ion:146 Resp: 162825

Ion Ratio Lower Upper

146 100

111 39.3 27.9 51.9

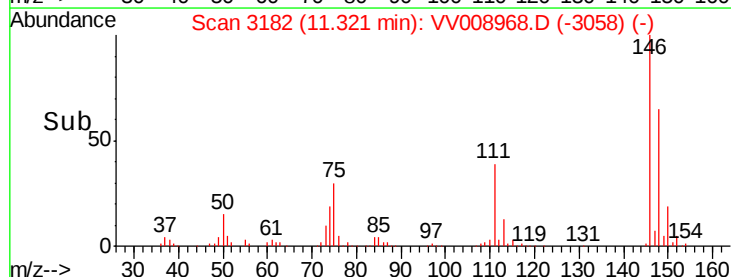
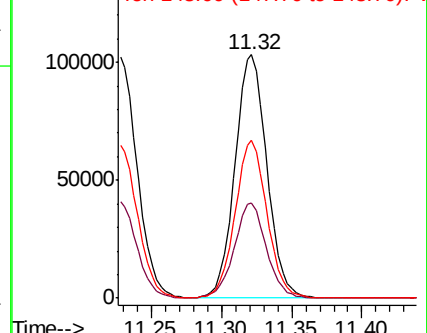
148 64.9 45.2 84.0

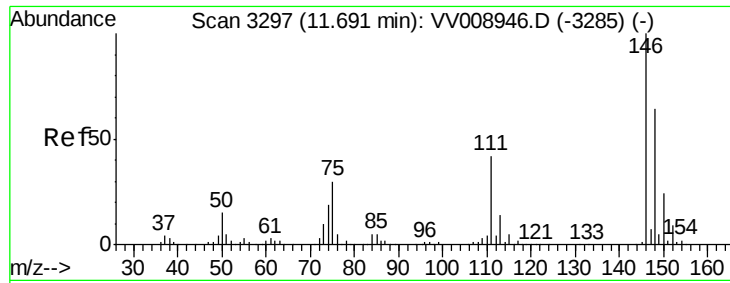


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 51.175 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05080

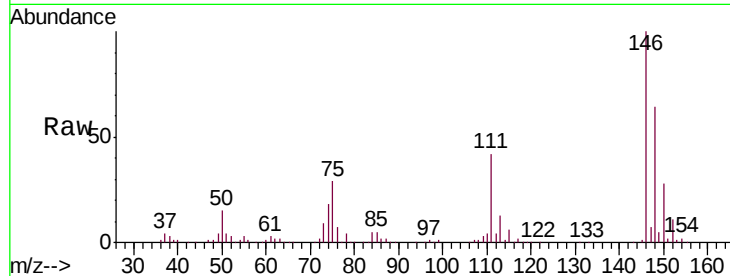
Tgt Ion:146 Resp: 172933

Ion Ratio Lower Upper

146 100

111 41.8 32.8 49.2

148 63.8 50.5 75.7

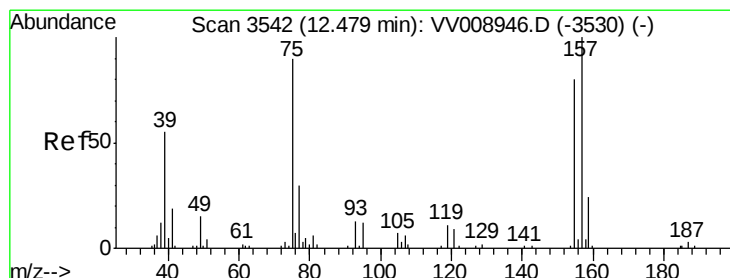
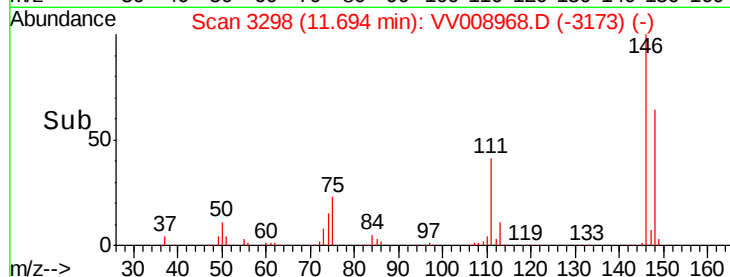
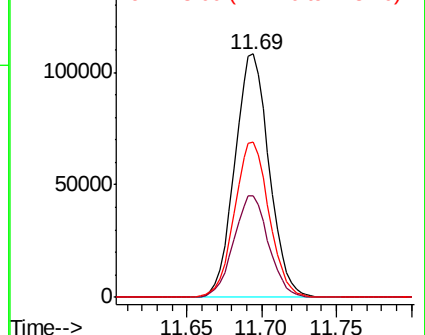


Abundance

Ion 146.00 (145.70 to 146.70): 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: 50.754 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

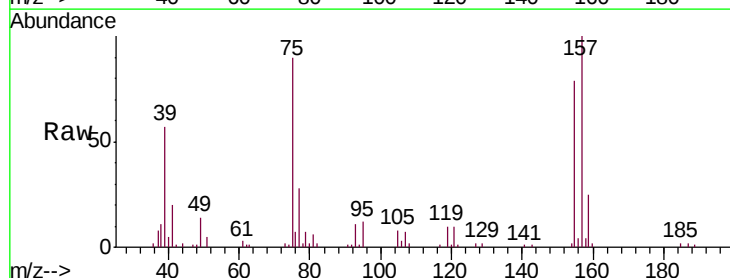
Tgt Ion: 75 Resp: 23446

Ion Ratio Lower Upper

75 100

155 88.4 68.6 102.8

157 111.5 89.4 134.0

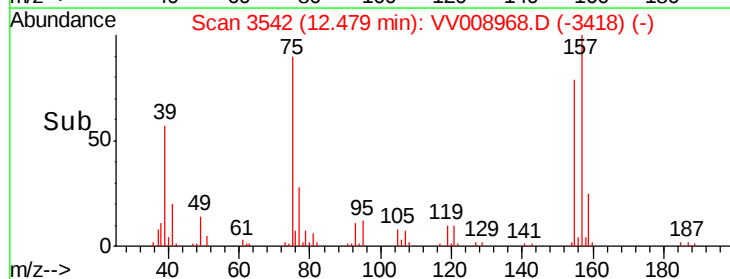
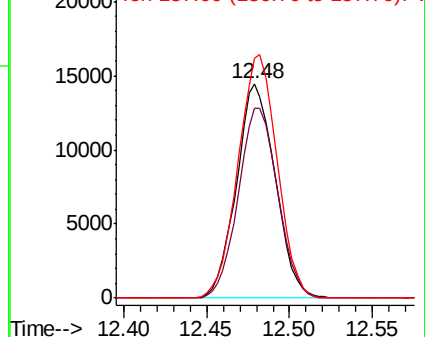


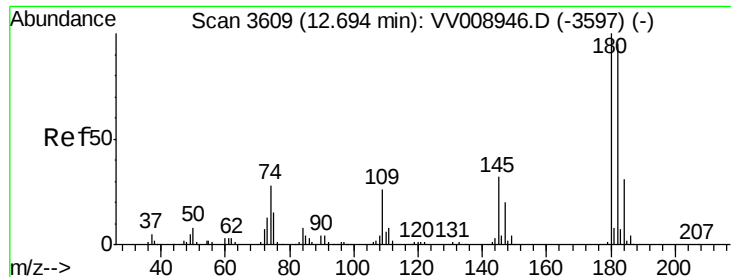
Abundance

Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

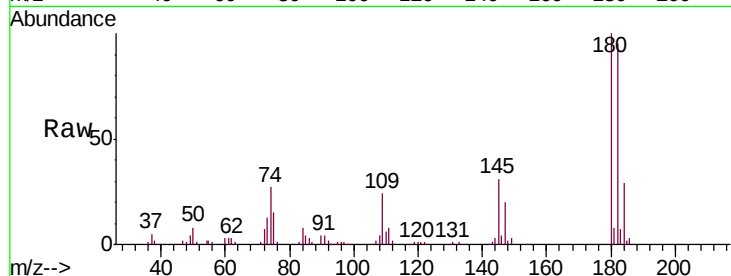




#67
 1,3,5-Trichlorobenzene
 Concen: 50.423 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV008968.D
 Acq: 15 Dec 2018 06:39

Instrument :
 MSVOA_V
 ClientSampleID :
 VSTD05080

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.4	113.0
184	29.4	24.2	36.2
145	31.0	25.0	37.4



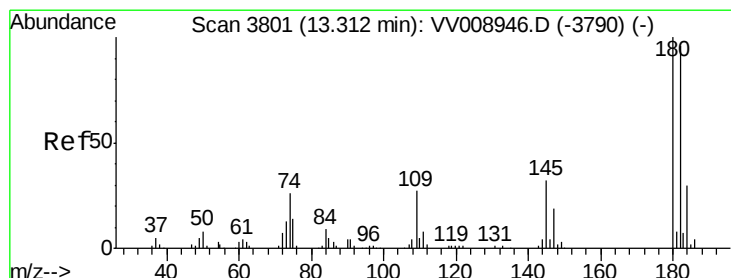
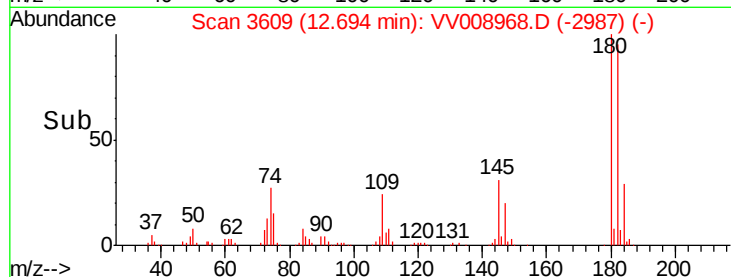
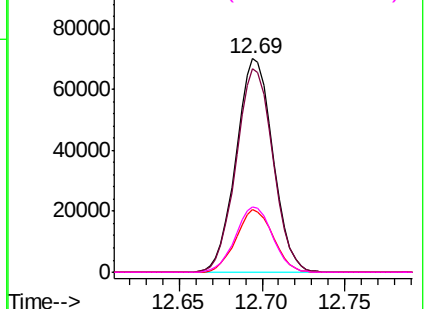
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

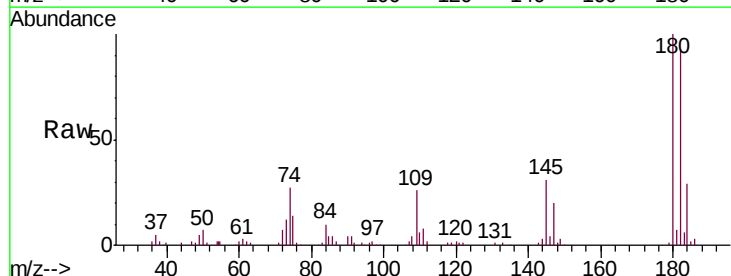
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 54.321 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV008968.D
 Acq: 15 Dec 2018 06:39

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.0	75.7	113.5
145	30.6	25.0	37.4

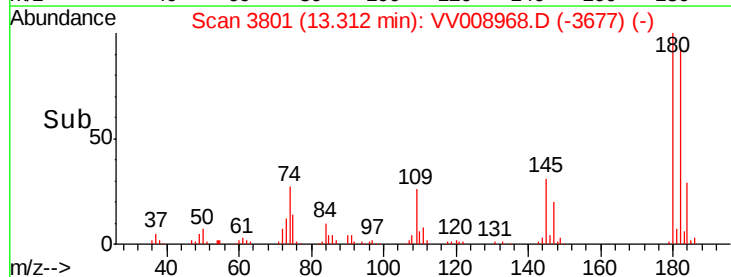
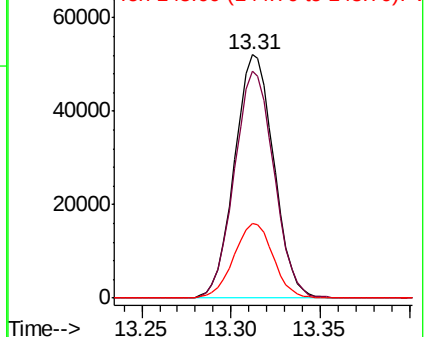


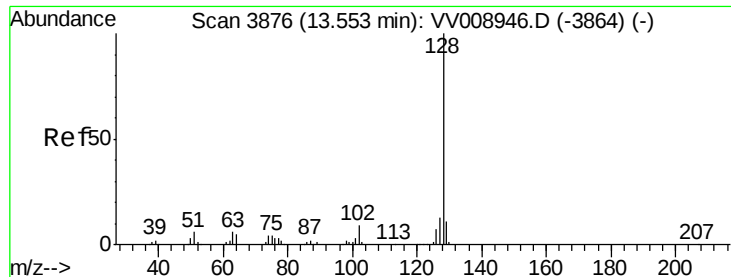
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 48.710 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05080

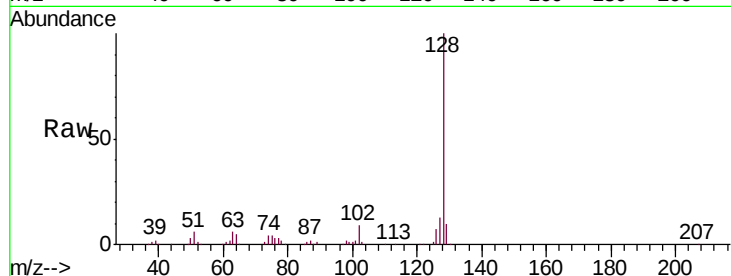
Tgt Ion:128 Resp: 179184

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

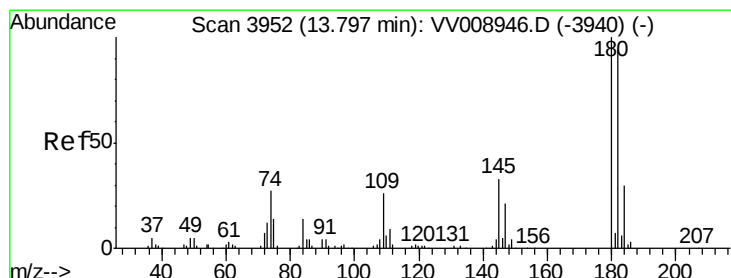
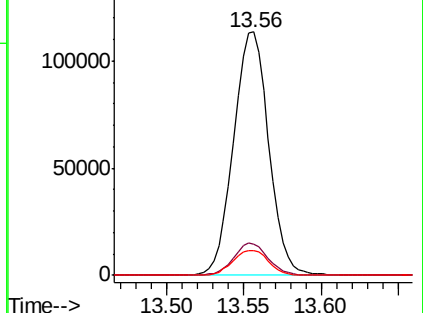
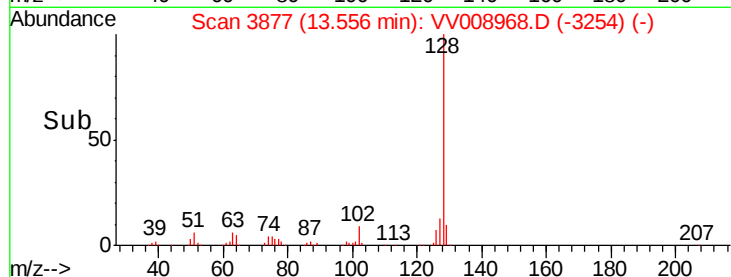
129 10.6 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 53.838 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. -0.00 min

Lab File: VV008968.D

Acq: 15 Dec 2018 06:39

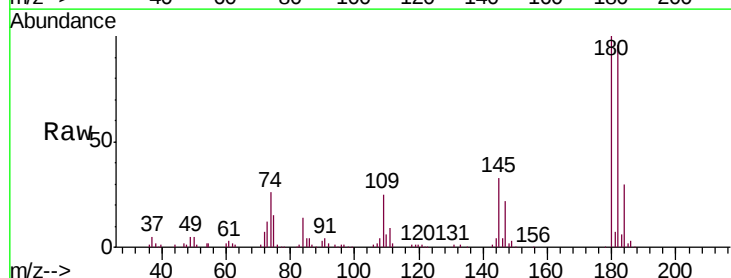
Tgt Ion:180 Resp: 79765

Ion Ratio Lower Upper

180 100

182 96.4 76.6 115.0

145 34.6 26.1 39.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

