

Data File : VV008144.D
Acq On : 08 Oct 2018 10:21
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00578

Quant Time: Oct 09 03:18:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR100518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 08 05:22:34 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	118543	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	111954	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	61577	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	26994	3.71	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.20%
7) Chloroethane-d5	1.59	69	23062	3.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.20%
11) 1,1-Dichloroethene-d2	2.14	63	54777	3.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	77.00%
20) 2-Butanone-d5	3.96	46	82869	47.34	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.68%
24) Chloroform-d	4.41	84	65918	4.39	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.80%
26) 1,2-Dichloroethane-d4	5.09	65	31473	4.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.80%
32) Benzene-d6	5.10	84	121125	4.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.80%
36) 1,2-Dichloropropane-d6	6.12	67	38972	4.30	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.00%
41) Toluene-d8	7.36	98	117186	4.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.20%
43) trans-1,3-Dichloropropene-	7.67	79	14190	4.49	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.80%
46) 2-Hexanone-d5	8.14	63	60879	48.36	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.72%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	29352	4.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.20%
64) 1,2-Dichlorobenzene-d4	11.68	152	49176	4.21	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	84.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	41372	5.148	ug/L 98
3) Chloromethane	1.25	50	32423	4.787	ug/L 100
5) Vinyl chloride	1.33	62	37519	4.975	ug/L 97
6) Bromomethane	1.54	94	19683	5.509	ug/L 97
8) Chloroethane	1.60	64	22400	4.445	ug/L 99
9) Trichlorofluoromethane	1.77	101	63400	4.907	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.15	101	37600	4.894	ug/L 98
12) 1,1-Dichloroethene	2.15	96	31900	4.967	ug/L 88
13) Acetone	2.21	43	52186	43.997	ug/L 98
14) Carbon disulfide	2.32	76	76126	4.658	ug/L 98
15) Methyl Acetate	2.47	43	12816	4.551	ug/L 96
16) Methylene chloride	2.54	84	34706	4.454	ug/L 98
17) Methyl tert-butyl Ether	2.81	73	76523	4.754	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	33715	4.810	ug/L 98
19) 1,1-Dichloroethane	3.23	63	67096	5.027	ug/L 100
21) 2-Butanone	4.05	43	93280	48.749	ug/L 99
22) cis-1,2-Dichloroethene	3.97	96	39556	5.003	ug/L 100

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR100518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 08 05:22:34 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.31	128	17934	4.996	ug/L	93
25) Chloroform	4.43	83	73602	5.125	ug/L	99
27) 1,2-Dichloroethane	5.19	62	40386	4.786	ug/L	98
29) 1,1,1-Trichloroethane	4.66	97	64383	5.178	ug/L	99
30) Cyclohexane	4.73	56	50765	4.916	ug/L	100
31) Carbon tetrachloride	4.88	117	57860	5.179	ug/L	100
33) Benzene	5.15	78	148599	5.260	ug/L	100
34) Trichloroethene	5.96	95	41110	4.987	ug/L	99
35) Methylcyclohexane	6.18	83	57174	4.965	ug/L	98
37) 1,2-Dichloropropane	6.23	63	39329	5.160	ug/L	100
38) Bromodichloromethane	6.56	83	49014	5.256	ug/L	100
39) cis-1,3-Dichloropropene	7.07	75	51741	5.293	ug/L	98
40) 4-Methyl-2-pentanone	7.28	43	217514	50.353	ug/L	100
42) Toluene	7.43	91	163927	5.462	ug/L	100
44) trans-1,3-Dichloropropene	7.70	75	42936	5.402	ug/L	97
45) 1,1,2-Trichloroethane	7.89	97	27036	5.057	ug/L	98
47) Tetrachloroethene	8.02	164	38879	5.280	ug/L	93
48) 2-Hexanone	8.19	43	156419	53.337	ug/L	99
49) Dibromochloromethane	8.29	129	34684	5.200	ug/L	100
50) 1,2-Dibromoethane	8.40	107	25156	5.182	ug/L	99
51) Chlorobenzene	8.93	112	111308	5.303	ug/L	99
52) Ethylbenzene	9.06	91	174762	5.336	ug/L	100
53) m,p-xylene	9.18	106	66628	5.366	ug/L	99
54) o-xylene	9.59	106	64475	5.439	ug/L	98
55) Styrene	9.61	104	114740	5.683	ug/L	100
56) Isopropylbenzene	9.98	105	180216	5.527	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	30398	4.904	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	22491	5.054	ug/L	96
61) Bromoform	9.78	173	19728	5.203	ug/L	98
62) 1,3-Dichlorobenzene	11.23	146	92509	5.046	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	95959	5.135	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	89218	5.037	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	4622	4.997	ug/L	96
67) 1,3,5-Trichlorobenzene	12.70	180	81813	5.237	ug/L	99
68) 1,2,4-trichlorobenzene	13.32	180	61160	5.248	ug/L	99
69) Naphthalene	13.56	128	73056	4.910	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	56290	5.079	ug/L	98

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

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Instrument :
MSVOA_V
ClientSampleId :
VSTD00578

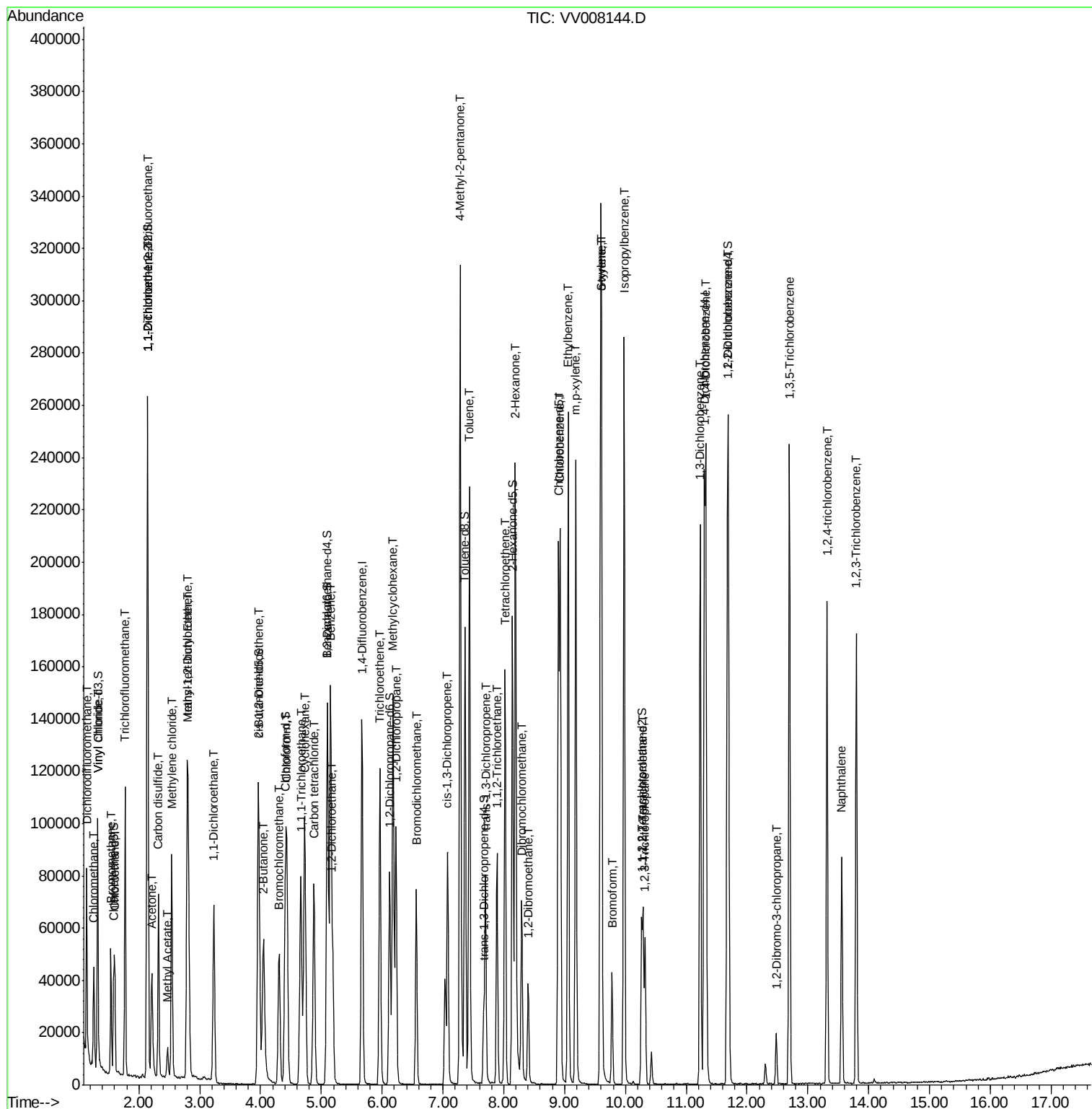
Quant Time: Oct 09 03:18:34 2018

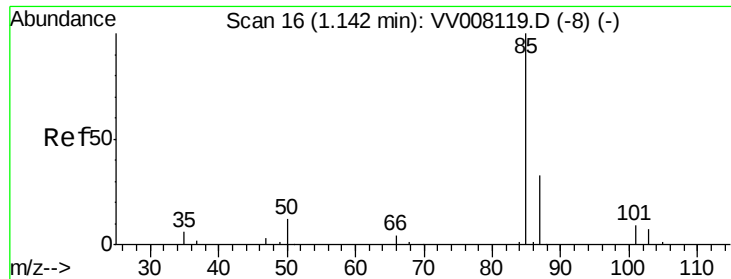
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0MVTR100518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Mon Oct 08 05:22:34 2018

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.148 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

MSVOA_V

ClientSampleId :

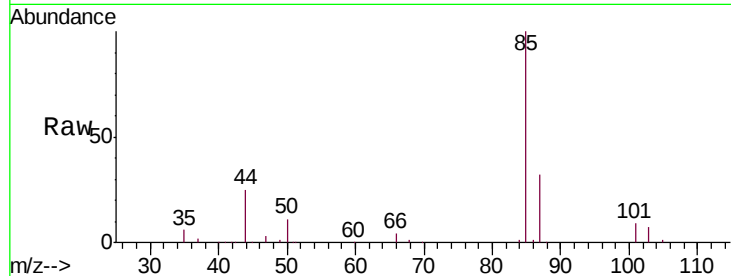
VSTD00578

Tgt Ion: 85 Resp: 41372

Ion Ratio Lower Upper

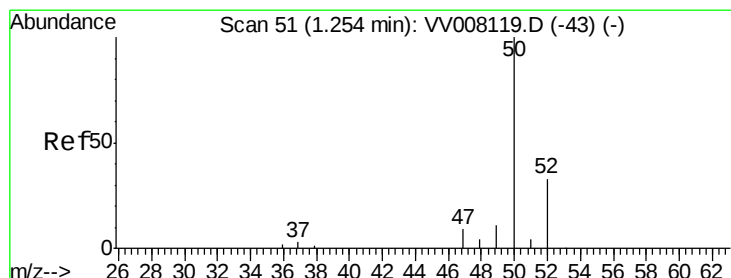
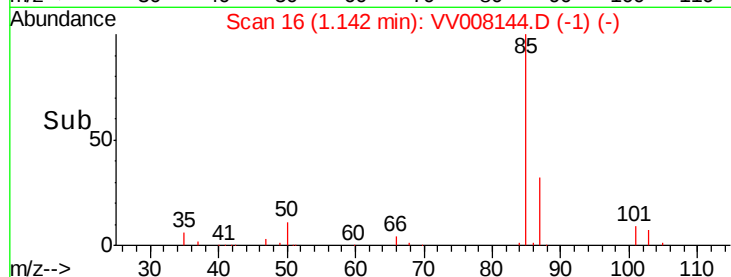
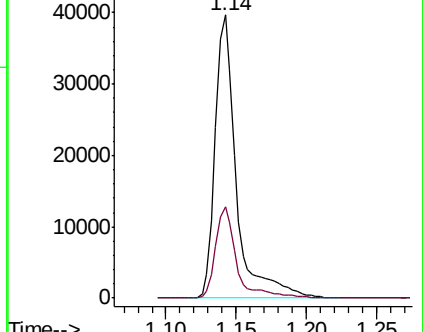
85 100

87 31.9 24.6 37.0



Abundance Ion 85.00 (84.70 to 85.70): VV008119.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV008119.D (-8) (-)



#3

Chloromethane

Concen: 4.787 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV008144.D

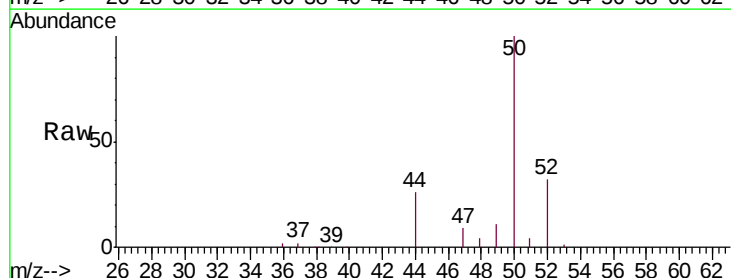
Acq: 08 Oct 2018 10:21

Tgt Ion: 50 Resp: 32423

Ion Ratio Lower Upper

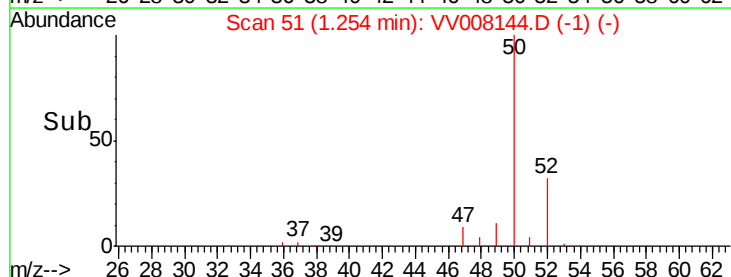
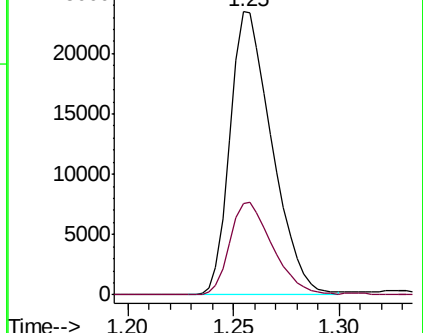
50 100

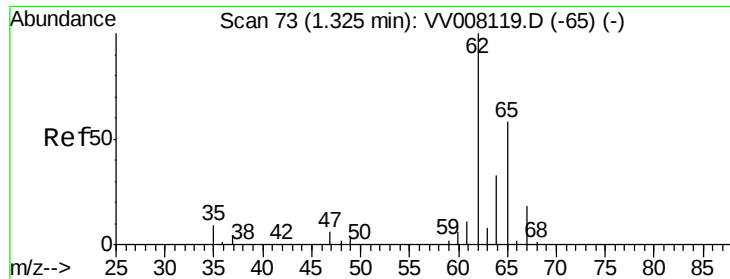
52 32.5 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VV008119.D (-43) (-)

Ion 52.05 (51.75 to 52.75): VV008119.D (-43) (-)





#5

Vinyl chloride

Concen: 4.975 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

MSVOA_V

ClientSampleId :

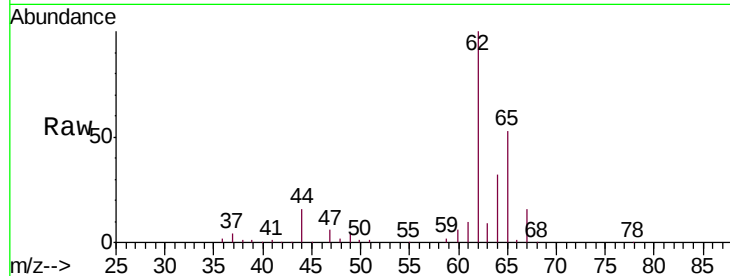
VSTD00578

Tgt Ion: 62 Resp: 37519

Ion Ratio Lower Upper

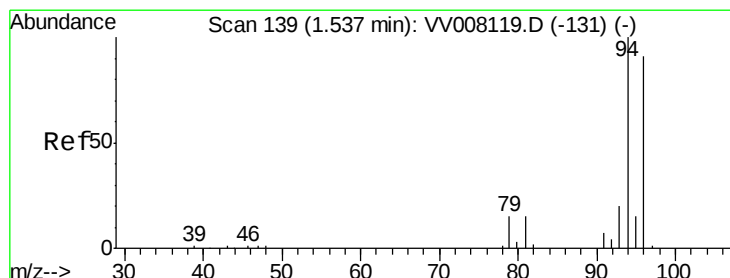
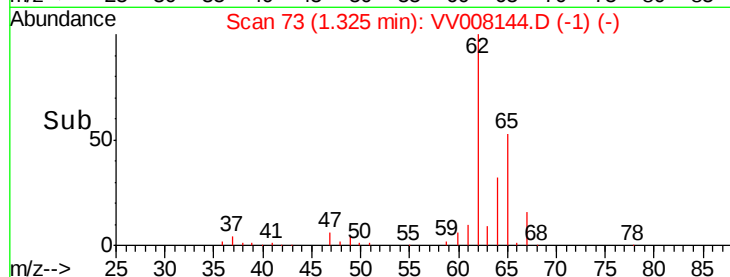
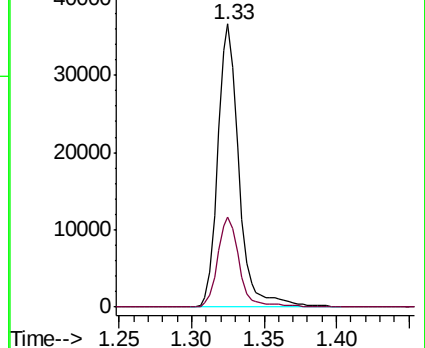
62 100

64 31.8 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 5.509 ug/L

RT: 1.54 min Scan# 140

Delta R.T. 0.00 min

Lab File: VV008144.D

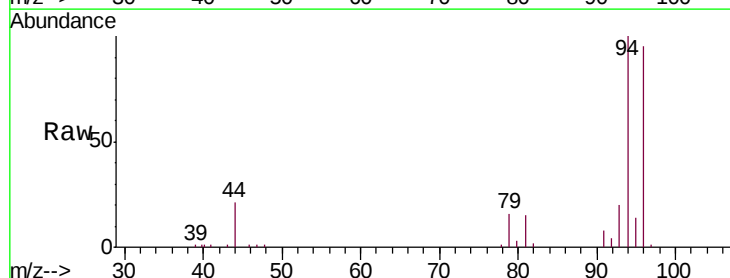
Acq: 08 Oct 2018 10:21

Tgt Ion: 94 Resp: 19683

Ion Ratio Lower Upper

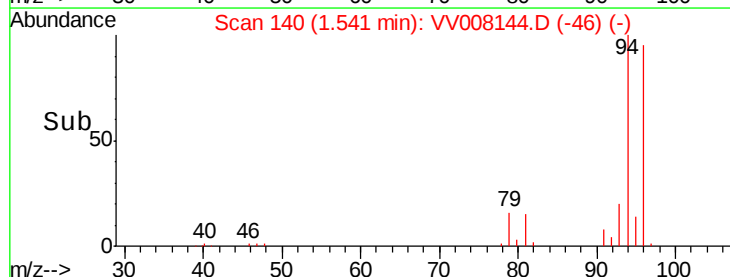
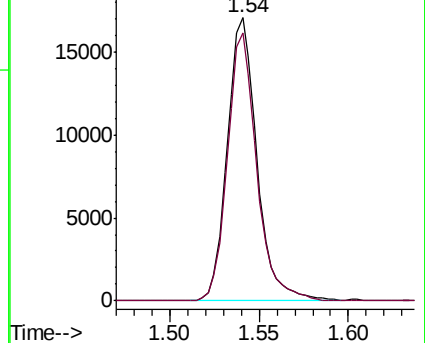
94 100

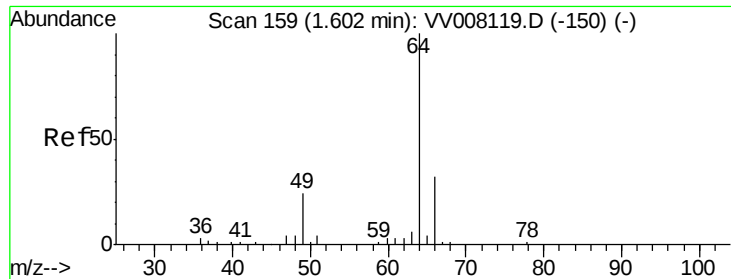
96 94.6 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 4.445 ug/L

RT: 1.60 min Scan# 160

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

MSVOA_V

ClientSampleId :

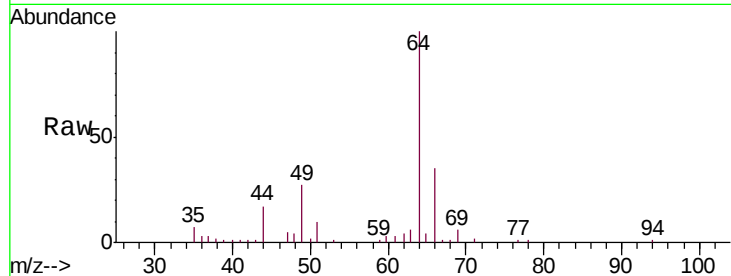
VSTD00578

Tgt Ion: 64 Resp: 22400

Ion Ratio Lower Upper

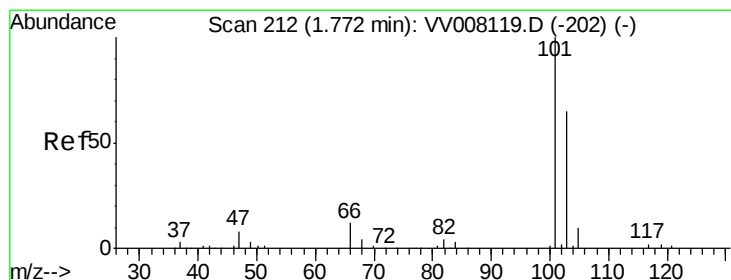
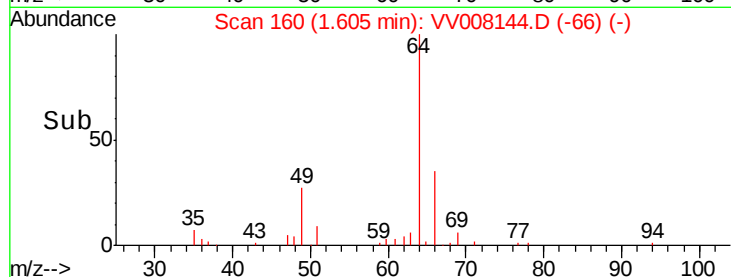
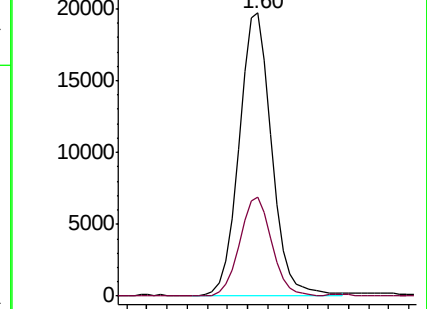
64 100

66 34.9 24.1 44.8



Abundance Ion 64.10 (63.80 to 64.80): VV008119.D (-150) (-)

Ion 66.05 (65.75 to 66.75): VV008119.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 4.907 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV008144.D

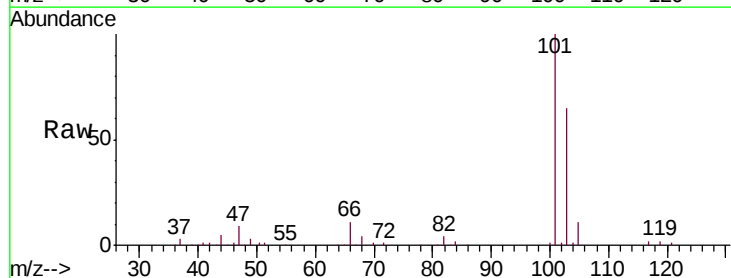
Acq: 08 Oct 2018 10:21

Tgt Ion: 101 Resp: 63400

Ion Ratio Lower Upper

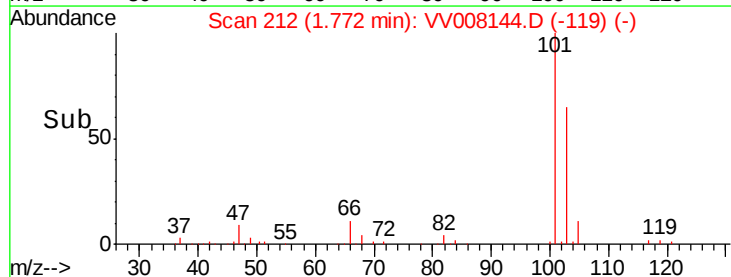
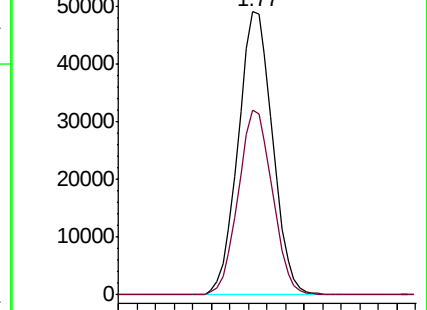
101 100

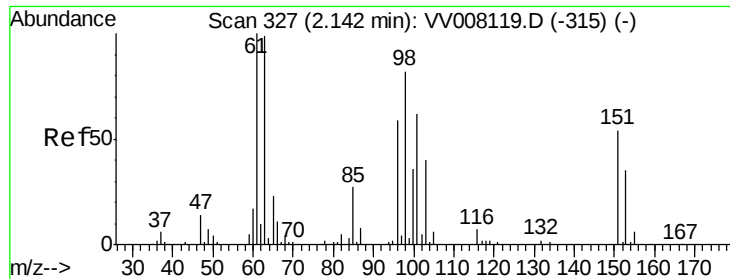
103 64.6 53.1 79.7



Abundance Ion 101.00 (100.70 to 101.70): VV008119.D (-202) (-)

Ion 103.00 (102.70 to 103.70): VV008119.D (-202) (-)





#10

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

Concen: 4.894 ug/L

RT: 2.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

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ClientSampleId :

VSTD00578

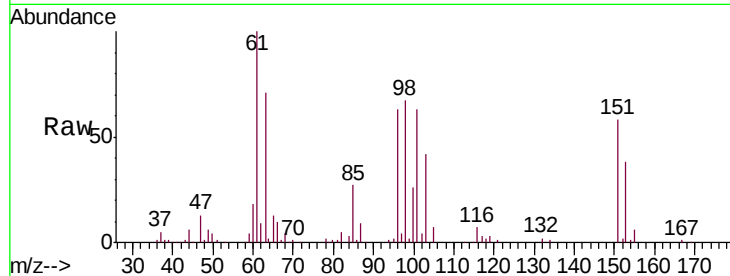
Tgt Ion:101 Resp: 37600

Ion Ratio Lower Upper

101 100

85 42.5 35.4 53.0

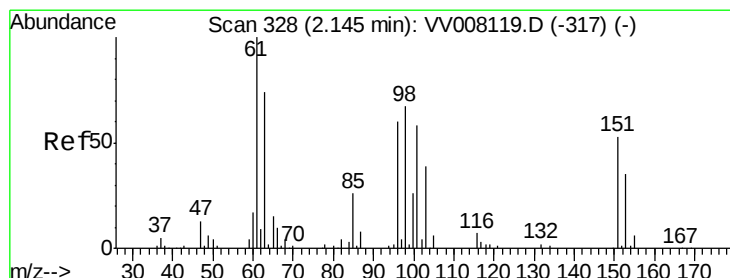
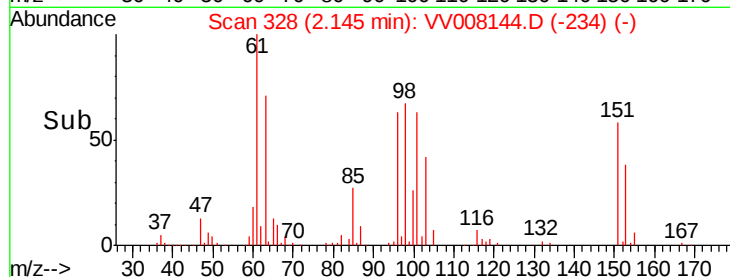
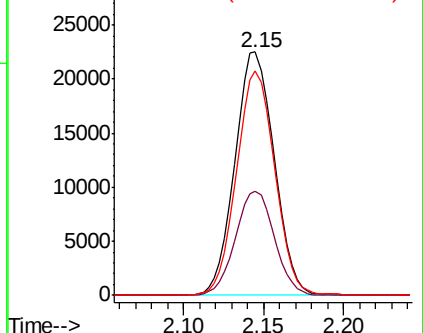
151 89.8 70.7 106.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.967 ug/L

RT: 2.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

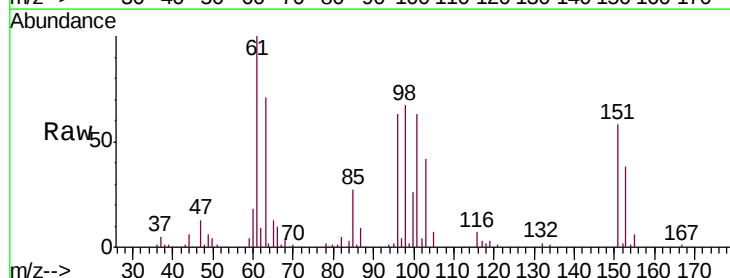
Tgt Ion: 96 Resp: 31900

Ion Ratio Lower Upper

96 100

61 158.6 114.7 213.1

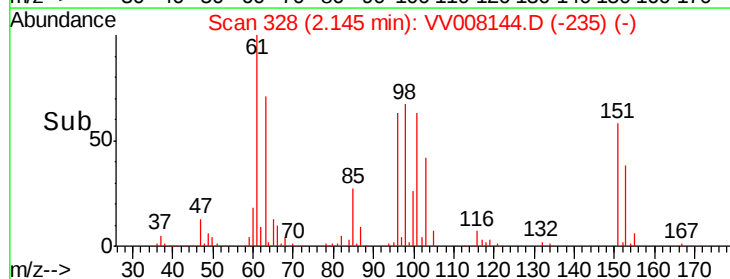
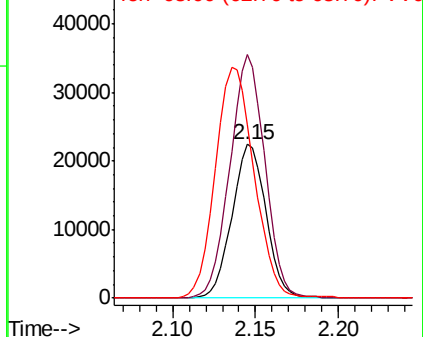
63 113.1 96.9 179.9

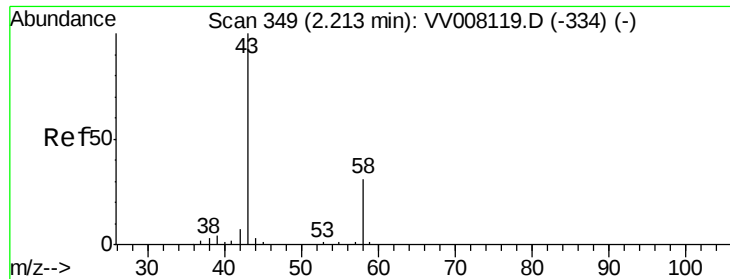


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 43.997 ug/L

RT: 2.21 min Scan# 349

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

MSVOA_V

ClientSampleId :

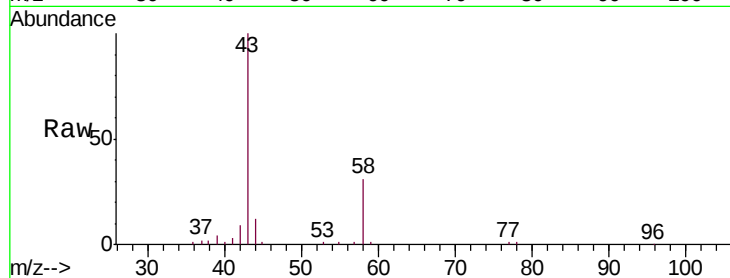
VSTD00578

Tgt Ion: 43 Resp: 52186

Ion Ratio Lower Upper

43 100

58 32.2 0.0 62.2



Abundance Ion 43.05 (42.75 to 43.75): VV008119.D (-334) (-)

Ion 58.05 (57.75 to 58.75): VV008119.D (-334) (-)

2.21

25000

20000

15000

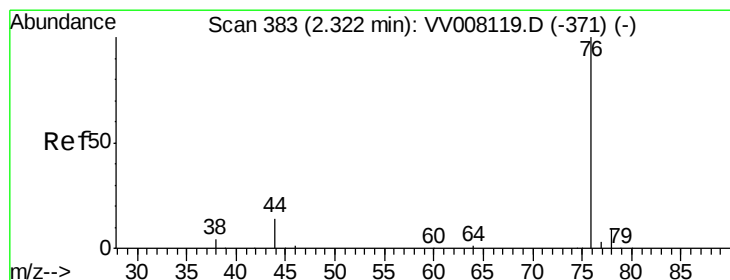
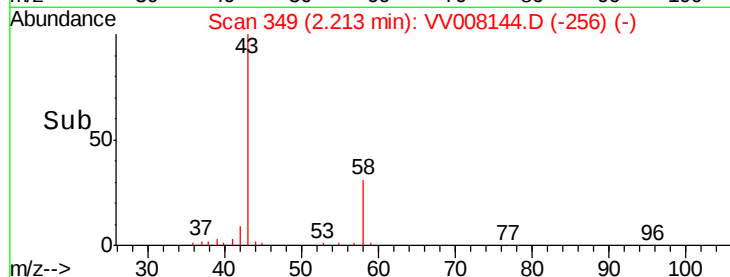
10000

5000

0

Time-->

2.15 2.20 2.25 2.30



#14

Carbon disulfide

Concen: 4.658 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV008144.D

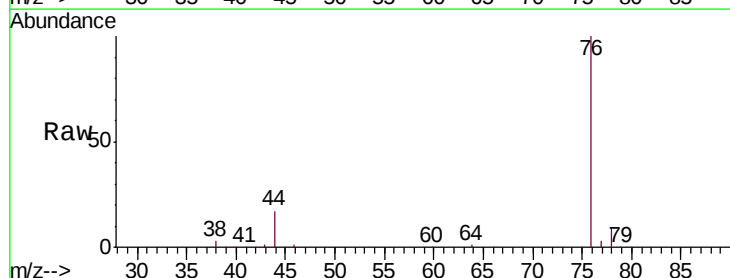
Acq: 08 Oct 2018 10:21

Tgt Ion: 76 Resp: 76126

Ion Ratio Lower Upper

76 100

78 9.4 8.0 12.0



Abundance Ion 76.05 (75.75 to 76.75): VV008119.D (-371) (-)

Ion 78.00 (77.70 to 78.70): VV008119.D (-371) (-)

2.32

60000

50000

40000

30000

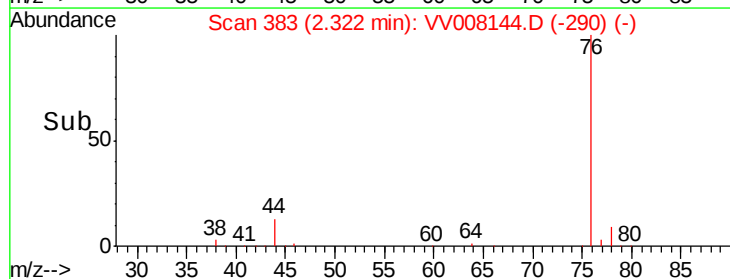
20000

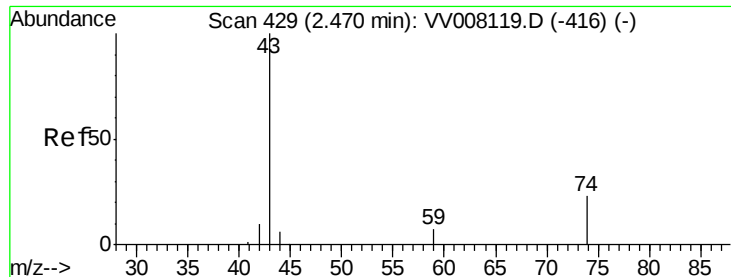
10000

0

Time-->

2.25 2.30 2.35 2.40





#15

Methyl Acetate

Concen: 4.551 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

MSVOA_V

ClientSampleId :

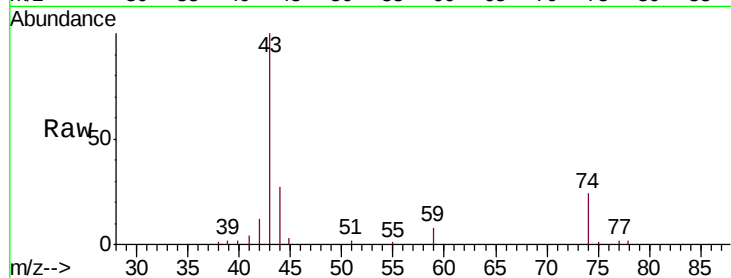
VSTD00578

Tgt Ion: 43 Resp: 12816

Ion Ratio Lower Upper

43 100

74 24.5 18.1 27.1



Abundance Ion 43.05 (42.75 to 43.75): VV008119.D (-416) (-)

Ion 74.05 (73.75 to 74.75): VV008119.D (-416) (-)

2.47

8000

6000

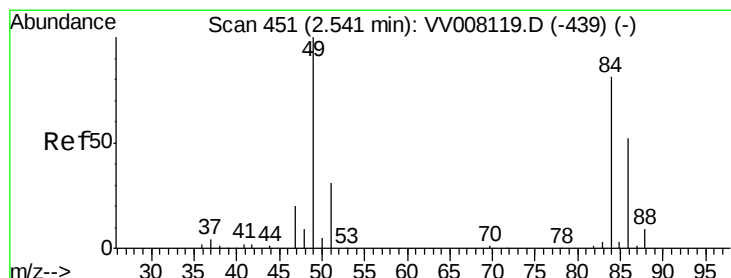
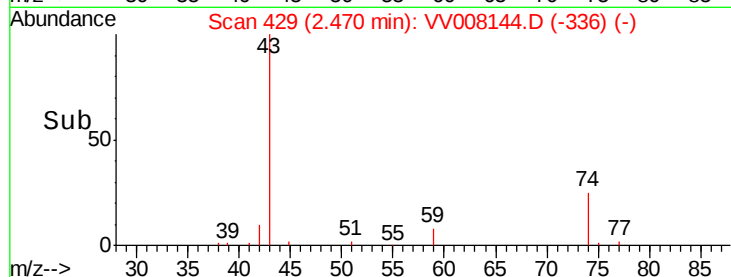
4000

2000

0

Time-->

2.40 2.45 2.50 2.55



#16

Methylene chloride

Concen: 4.454 ug/L

RT: 2.54 min Scan# 451

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

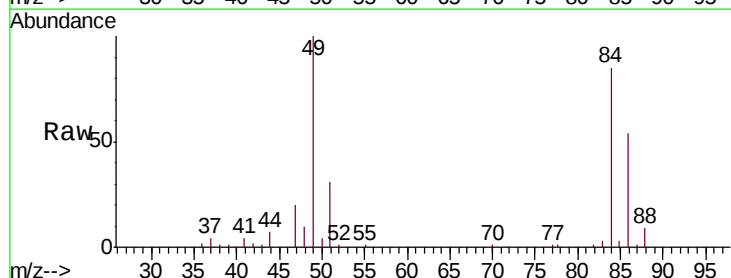
Tgt Ion: 84 Resp: 34706

Ion Ratio Lower Upper

84 100

86 62.9 45.3 84.1

49 117.3 83.0 154.1



Abundance Ion 84.05 (83.75 to 84.75): VV008119.D (-439) (-)

Ion 86.00 (85.70 to 86.70): VV008119.D (-439) (-)

Ion 49.10 (48.80 to 49.80): VV008119.D (-439) (-)

2.54

30000

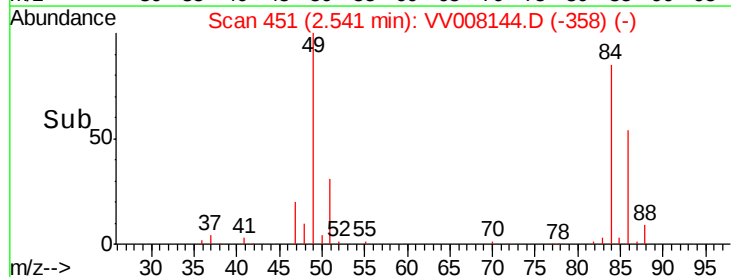
20000

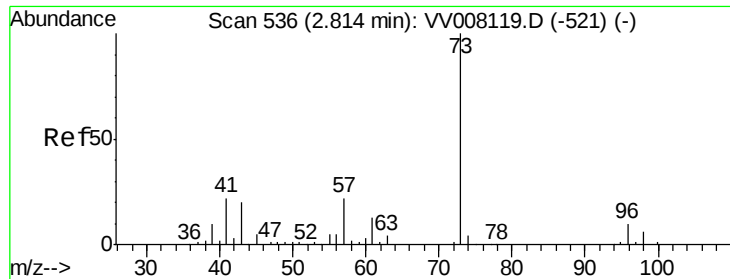
10000

0

Time-->

2.45 2.50 2.55 2.60

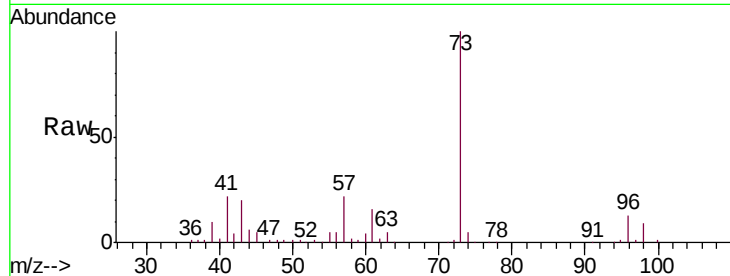




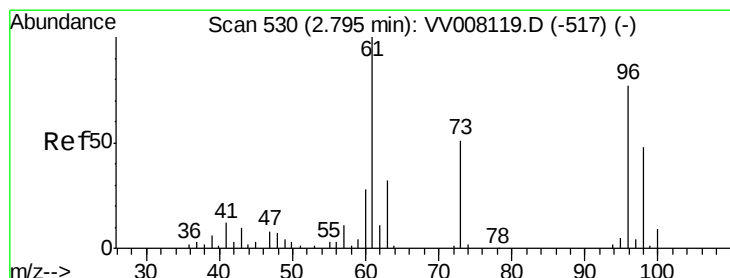
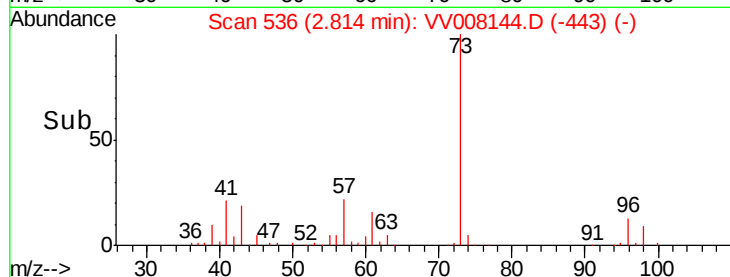
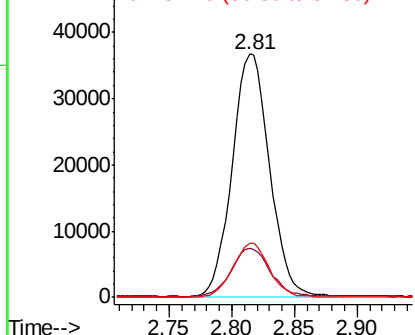
#17
Methyl tert-butyl Ether
Concen: 4.754 ug/L
RT: 2.81 min Scan# 536
Delta R.T. 0.00 min
Lab File: VV008144.D
Acq: 08 Oct 2018 10:21

Instrument :
MSVOA_V
ClientSampleId :
VSTD00578

Tgt Ion: 73 Resp: 76523
Ion Ratio Lower Upper
73 100
43 20.3 17.0 25.4
57 21.8 17.3 25.9

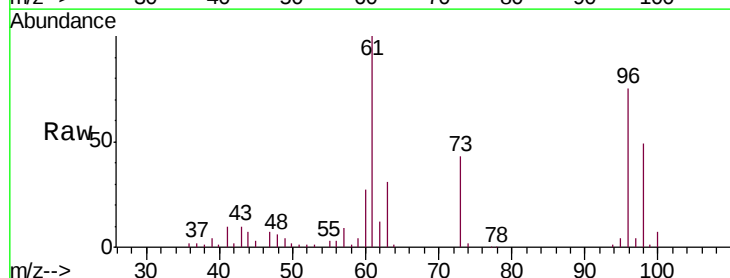


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

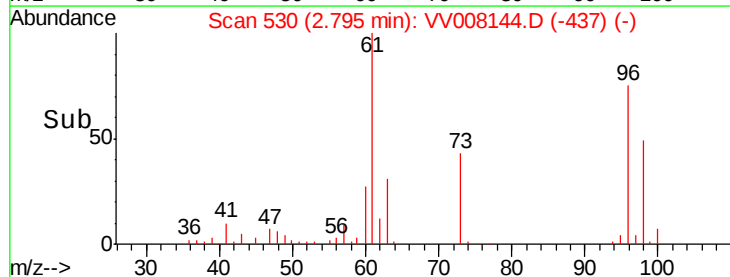
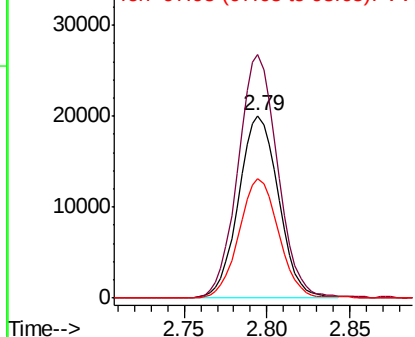


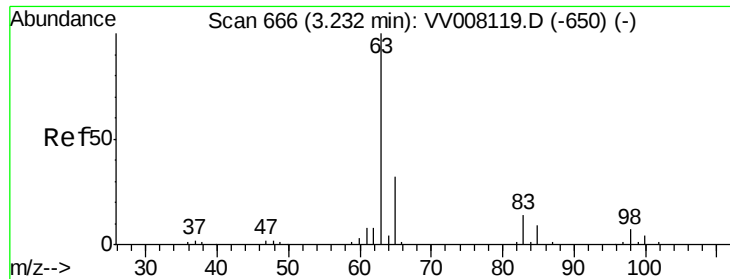
#18
trans-1,2-Dichloroethene
Concen: 4.810 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV008144.D
Acq: 08 Oct 2018 10:21

Tgt Ion: 96 Resp: 33715
Ion Ratio Lower Upper
96 100
61 133.5 91.6 170.2
98 65.3 44.4 82.5



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

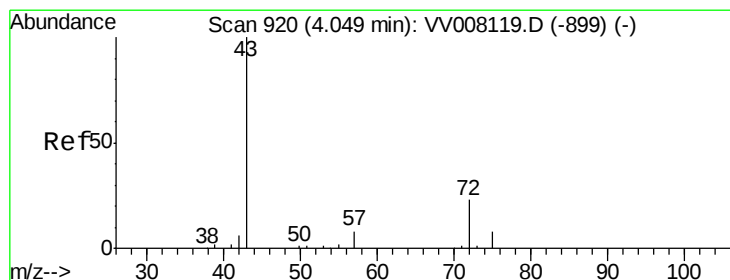
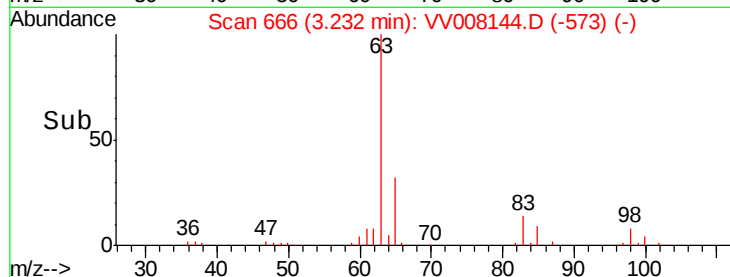
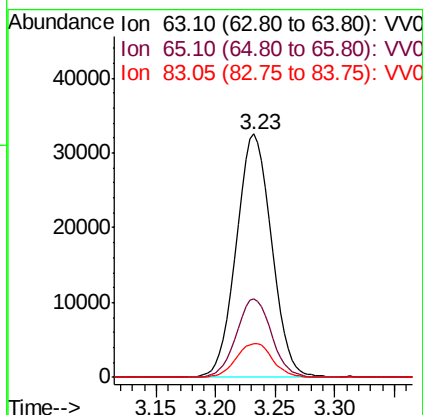
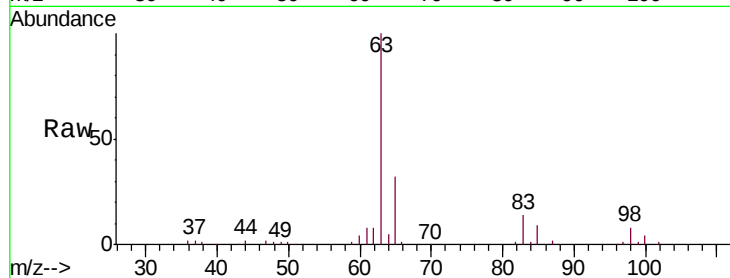




#19
 1,1-Dichloroethane
 Concen: 5.027 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VV008144.D
 Acq: 08 Oct 2018 10:21

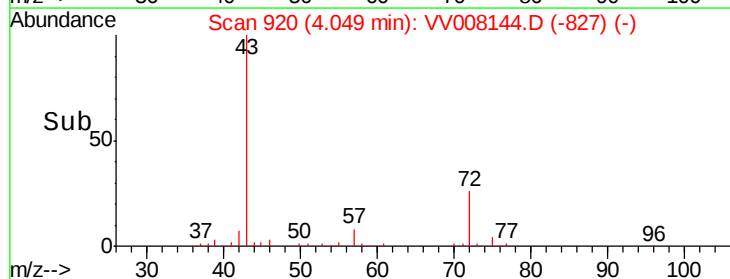
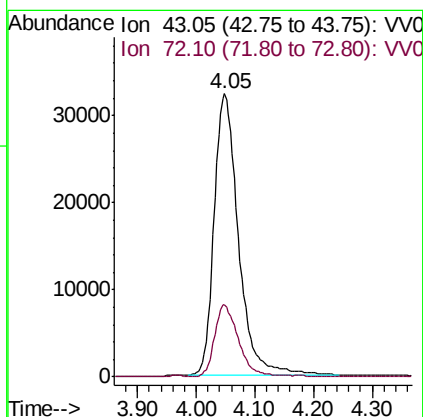
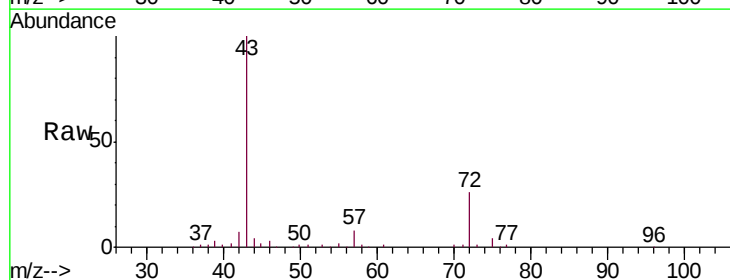
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00578

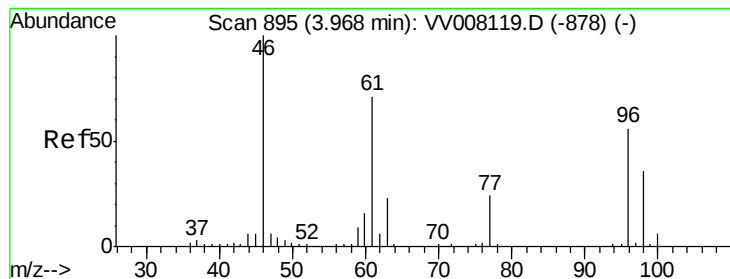
Tgt Ion: 63 Resp: 67096
 Ion Ratio Lower Upper
 63 100
 65 32.2 22.4 41.6
 83 13.7 9.6 17.8



#21
 2-Butanone
 Concen: 48.749 ug/L
 RT: 4.05 min Scan# 920
 Delta R.T. 0.00 min
 Lab File: VV008144.D
 Acq: 08 Oct 2018 10:21

Tgt Ion: 43 Resp: 93280
 Ion Ratio Lower Upper
 43 100
 72 25.0 12.9 38.6



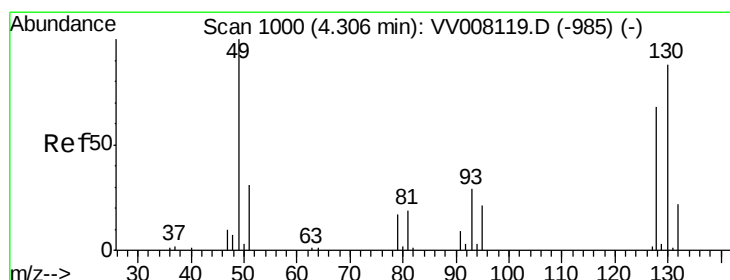
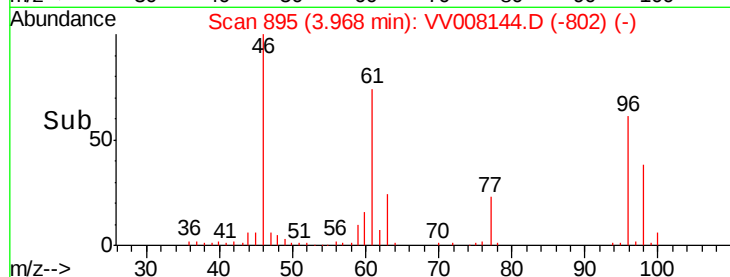
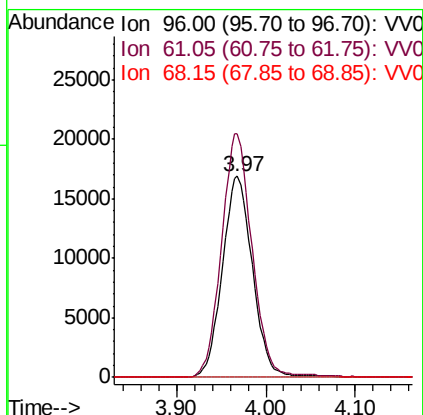
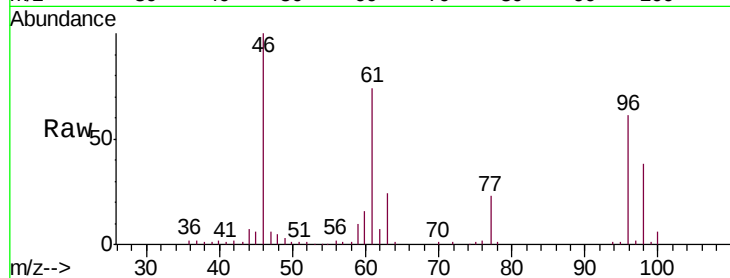


#22

cis-1,2-Dichloroethene
 Concen: 5.003 ug/L
 RT: 3.97 min Scan# 895
 Delta R.T. 0.00 min
 Lab File: VV008144.D
 Acq: 08 Oct 2018 10:21

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00578

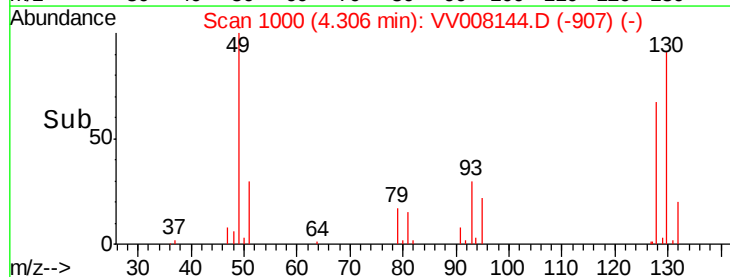
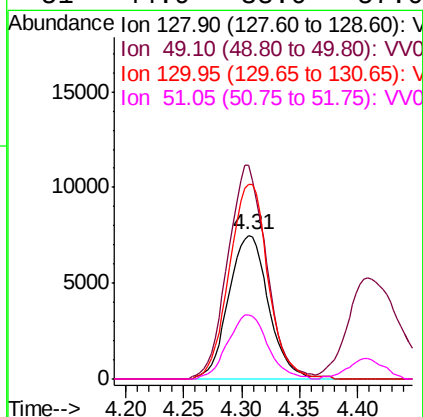
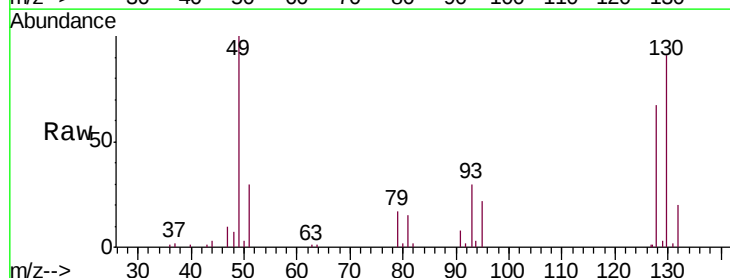
Tgt Ion: 96 Resp: 39556
 Ion Ratio Lower Upper
 96 100
 61 121.1 85.1 158.1
 68 0.0 0.0 0.0

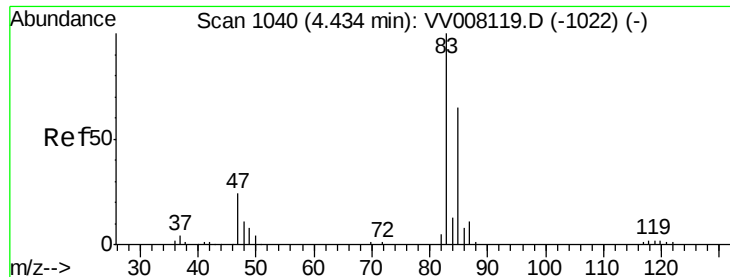


#23

Bromochloromethane
 Concen: 4.996 ug/L
 RT: 4.31 min Scan# 1000
 Delta R.T. 0.00 min
 Lab File: VV008144.D
 Acq: 08 Oct 2018 10:21

Tgt Ion: 128 Resp: 17934
 Ion Ratio Lower Upper
 128 100
 49 148.4 99.8 185.3
 130 135.0 85.5 158.7
 51 44.9 38.0 57.0

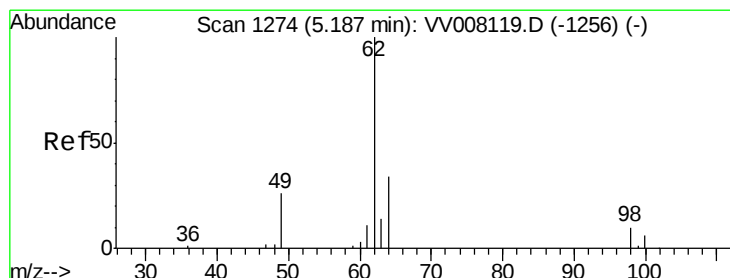
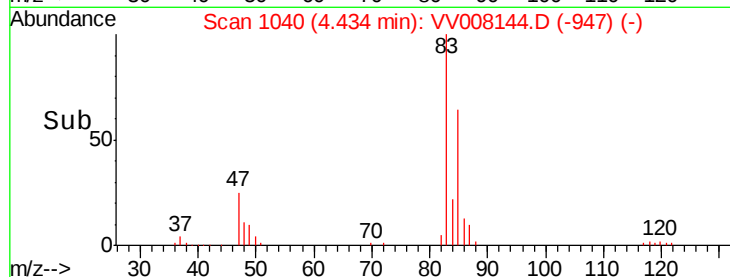
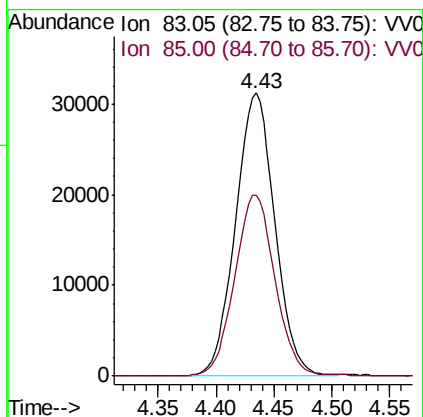
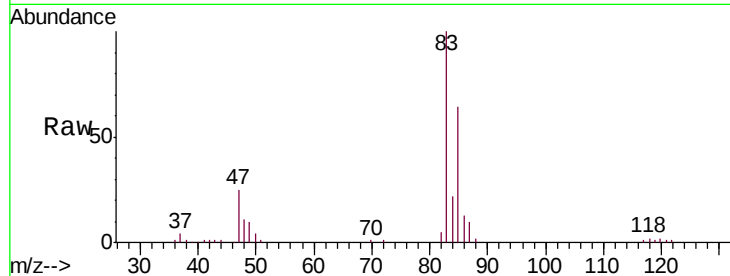




#25
Chloroform
Concen: 5.125 ug/L
RT: 4.43 min Scan# 1040
Delta R.T. 0.00 min
Lab File: VV008144.D
Acq: 08 Oct 2018 10:21

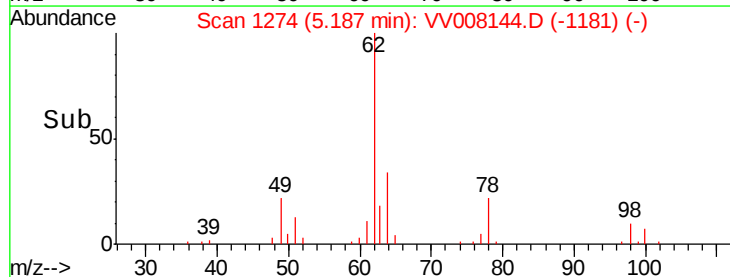
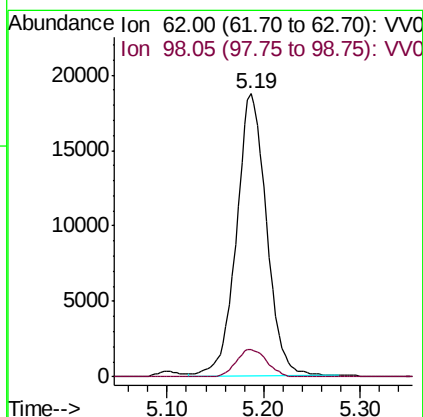
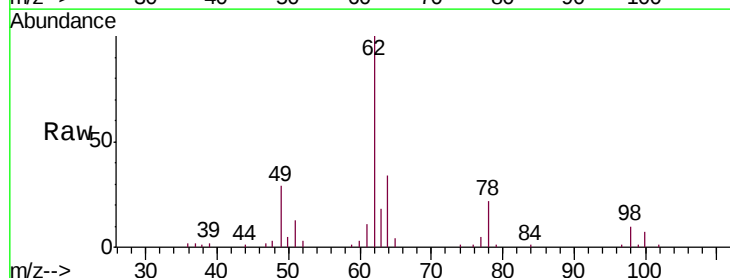
Instrument :
MSVOA_V
ClientSampleId :
VSTD00578

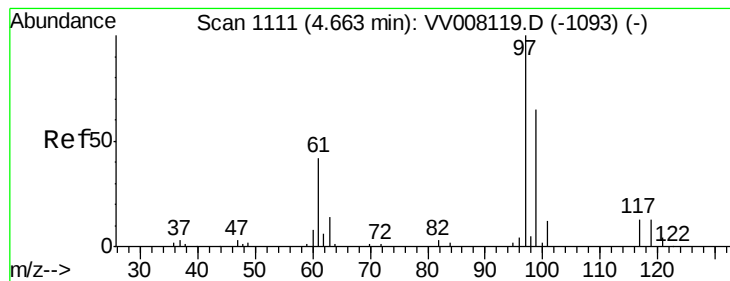
Tgt Ion: 83 Resp: 73602
Ion Ratio Lower Upper
83 100
85 64.1 44.6 82.8



#27
1,2-Dichloroethane
Concen: 4.786 ug/L
RT: 5.19 min Scan# 1274
Delta R.T. 0.00 min
Lab File: VV008144.D
Acq: 08 Oct 2018 10:21

Tgt Ion: 62 Resp: 40386
Ion Ratio Lower Upper
62 100
98 9.7 7.3 10.9





#29

1,1,1-Trichloroethane

Concen: 5.178 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD00578

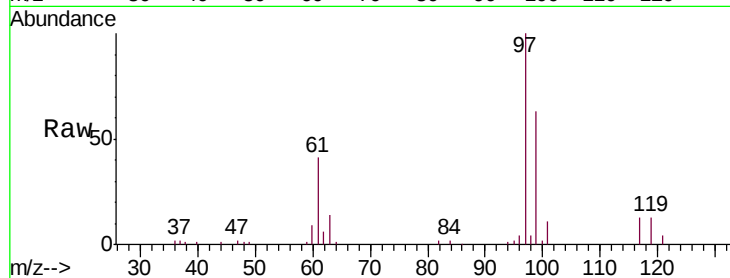
Tgt Ion: 97 Resp: 64383

Ion Ratio Lower Upper

97 100

99 63.9 51.0 76.4

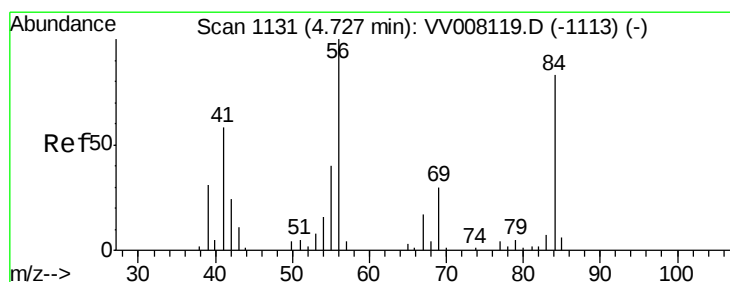
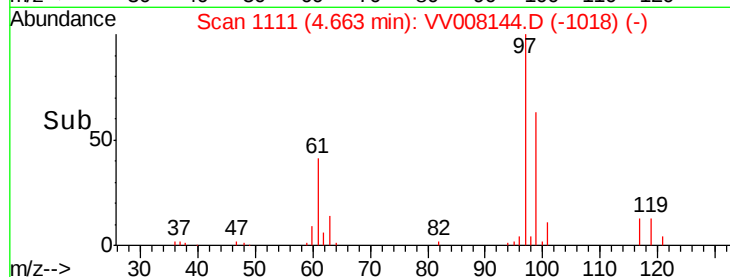
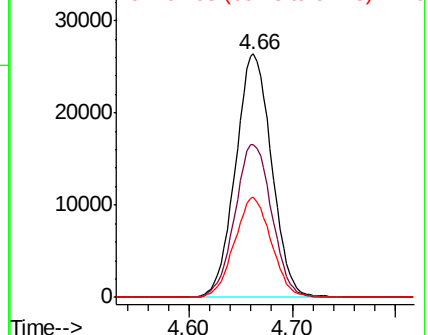
61 41.7 34.0 51.0



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#30

Cyclohexane

Concen: 4.916 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

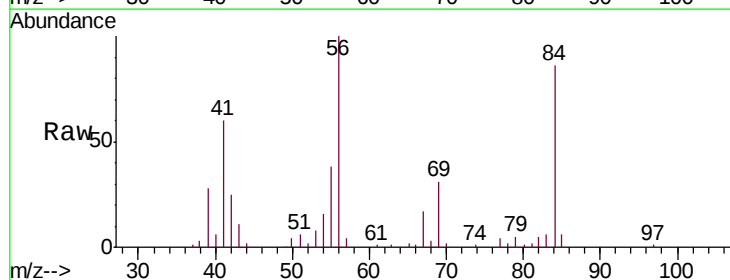
Tgt Ion: 56 Resp: 50765

Ion Ratio Lower Upper

56 100

69 31.0 24.6 36.8

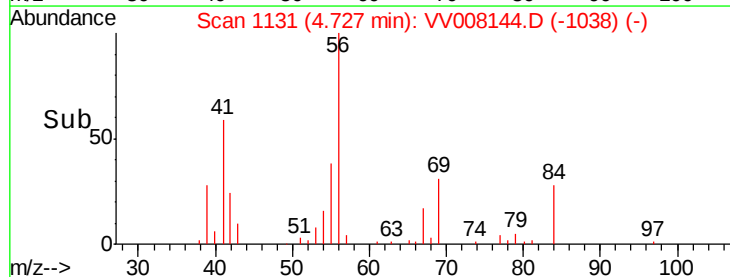
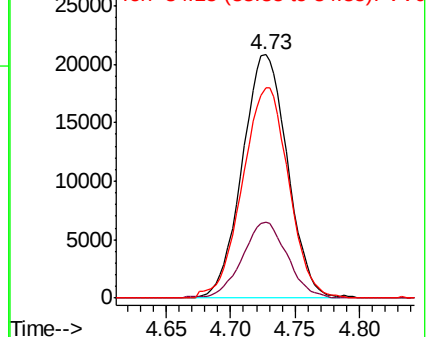
84 88.6 70.7 106.1

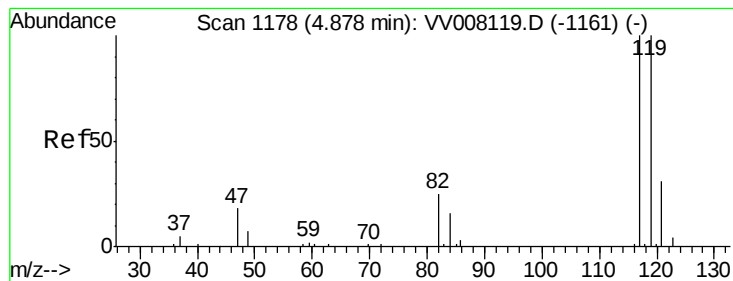


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 5.179 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

MSVOA_V

ClientSampled :

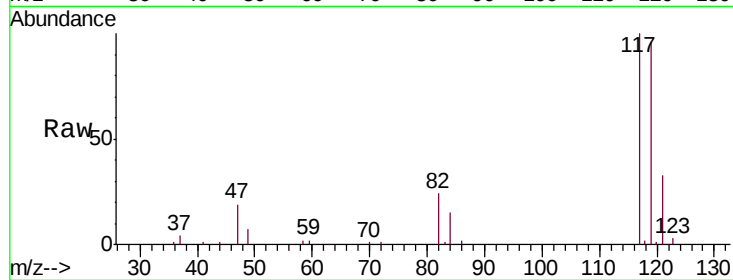
VSTD00578

Tgt Ion:117 Resp: 57860

Ion Ratio Lower Upper

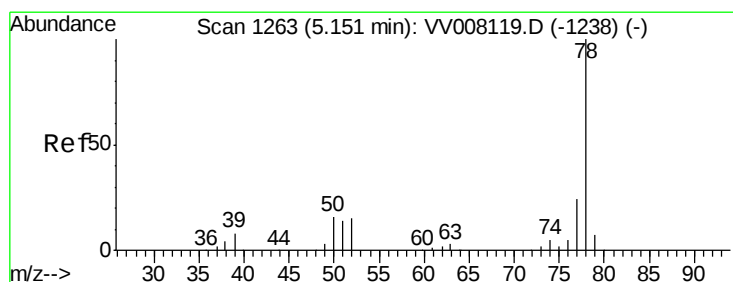
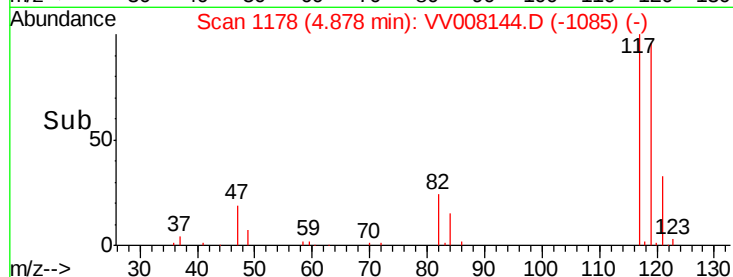
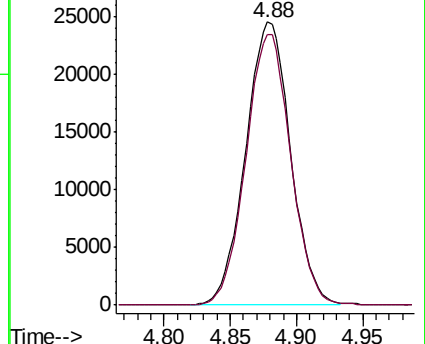
117 100

119 95.5 76.3 114.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.260 ug/L

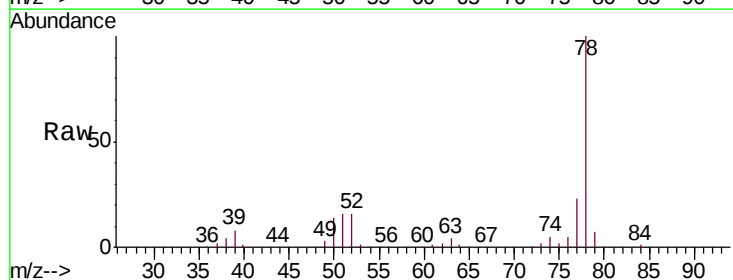
RT: 5.15 min Scan# 1263

Delta R.T. 0.00 min

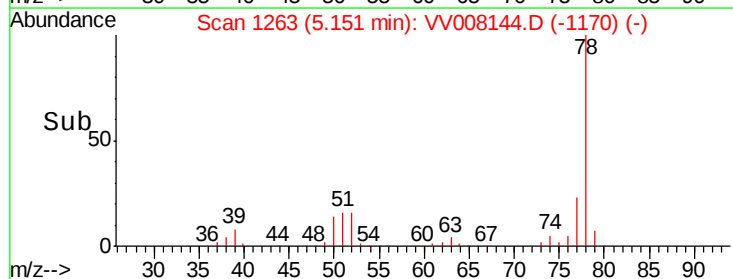
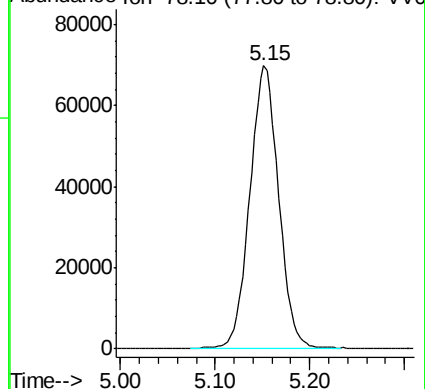
Lab File: VV008144.D

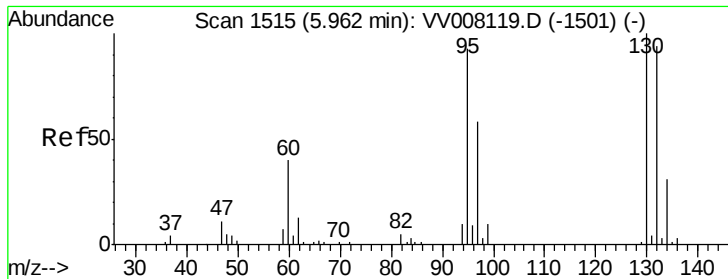
Acq: 08 Oct 2018 10:21

Tgt Ion: 78 Resp: 148599



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.987 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD00578

Tgt Ion: 95 Resp: 41110

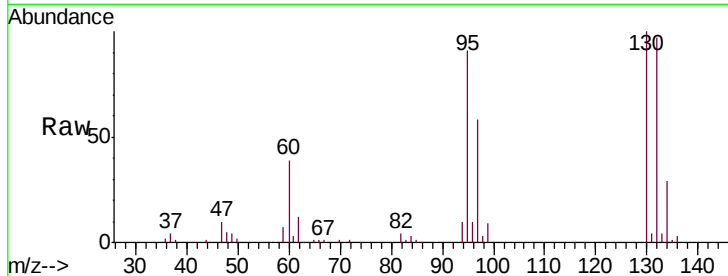
Ion Ratio Lower Upper

95 100

97 64.1 44.9 83.5

132 106.3 73.6 136.6

130 110.0 76.2 141.6

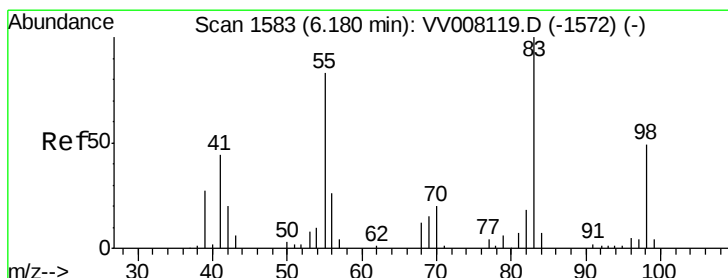
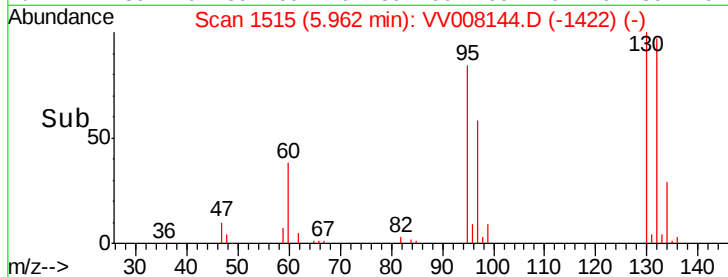
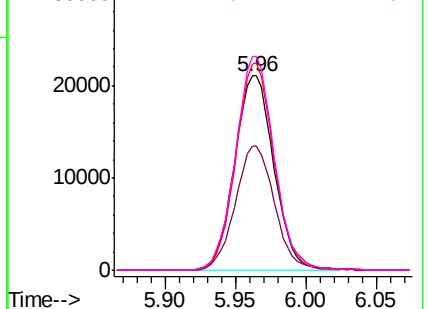


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.965 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

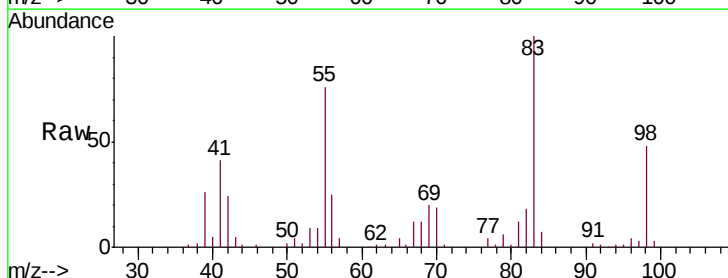
Tgt Ion: 83 Resp: 57174

Ion Ratio Lower Upper

83 100

55 77.2 63.6 95.4

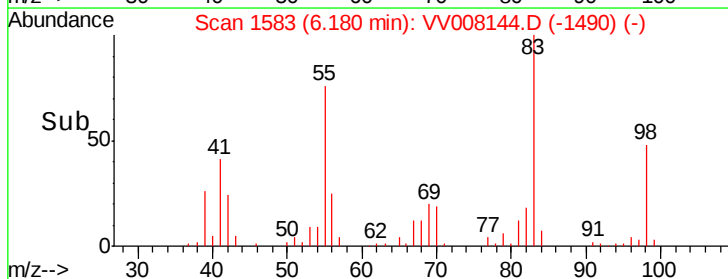
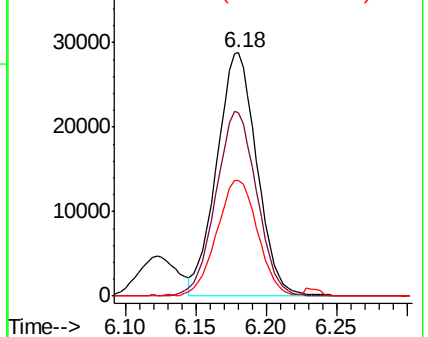
98 48.5 38.3 57.5

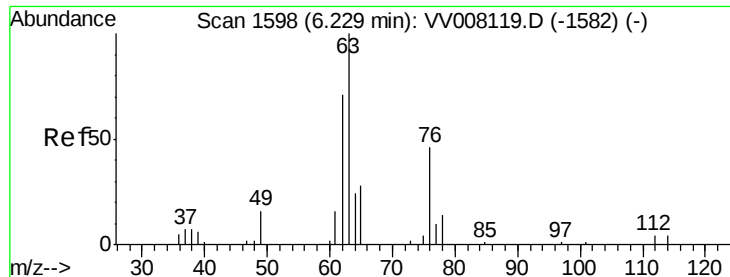


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

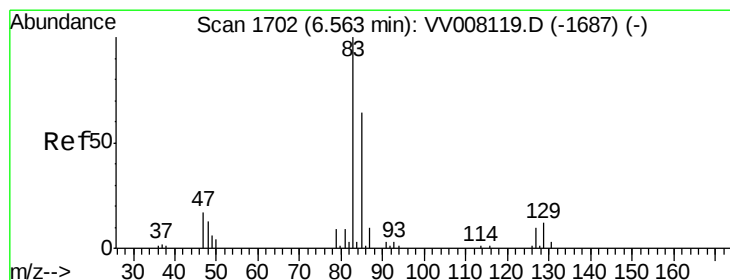
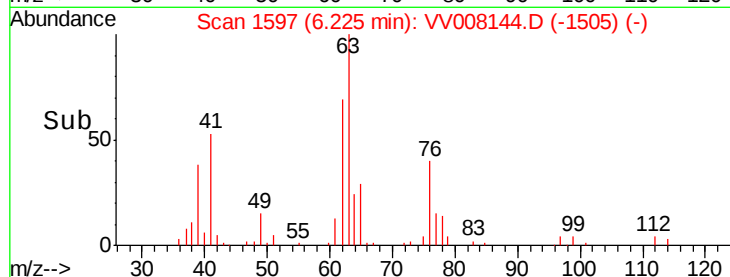
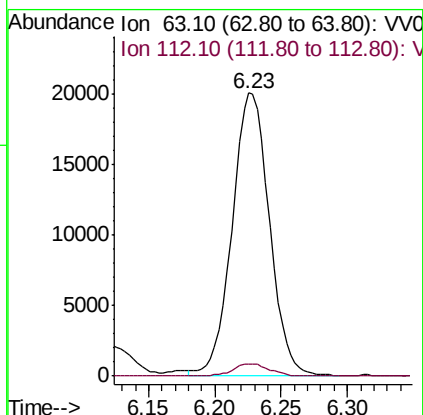
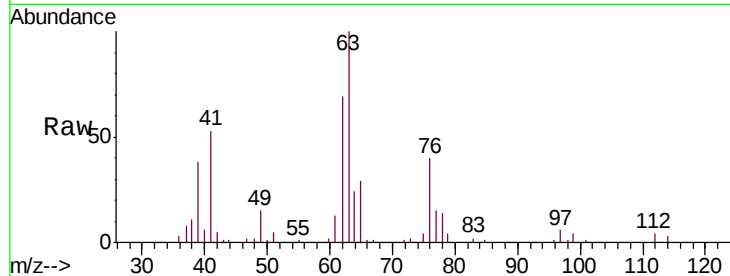




#37
 1,2-Dichloropropane
 Concen: 5.160 ug/L
 RT: 6.23 min Scan# 1597
 Delta R.T. -0.00 min
 Lab File: VV008144.D
 Acq: 08 Oct 2018 10:21

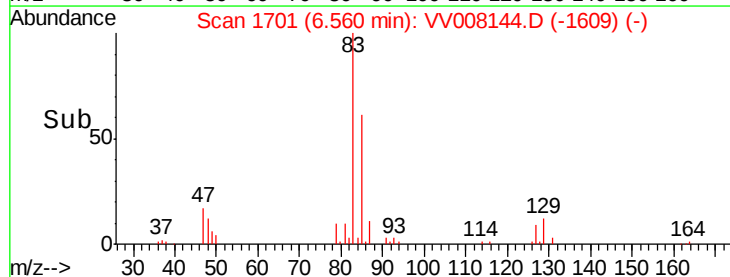
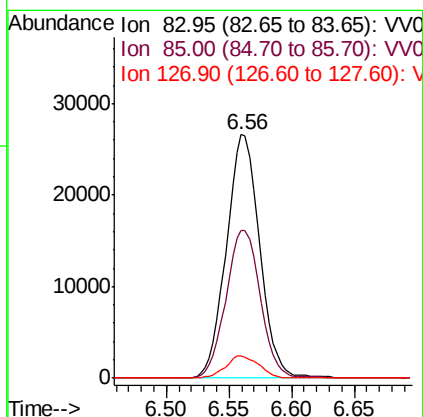
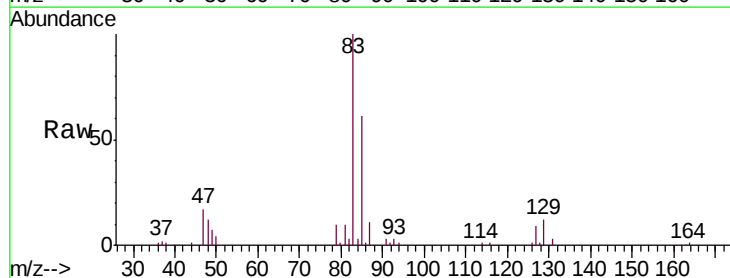
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00578

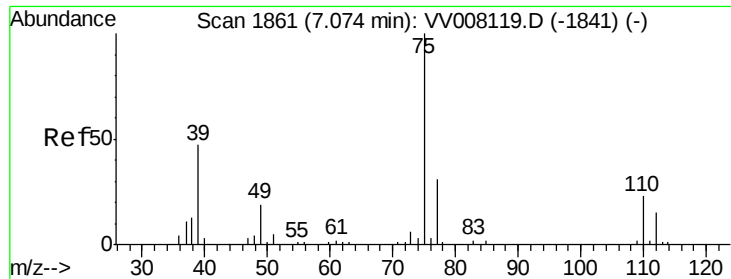
Tgt Ion: 63 Resp: 39329
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.4 5.2



#38
 Bromodichloromethane
 Concen: 5.256 ug/L
 RT: 6.56 min Scan# 1701
 Delta R.T. -0.00 min
 Lab File: VV008144.D
 Acq: 08 Oct 2018 10:21

Tgt Ion: 83 Resp: 49014
 Ion Ratio Lower Upper
 83 100
 85 60.5 42.5 78.9
 127 9.3 7.7 11.5

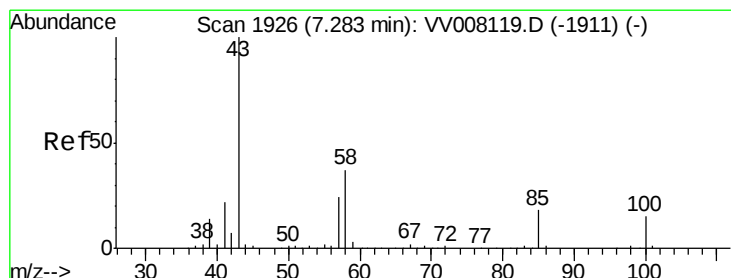
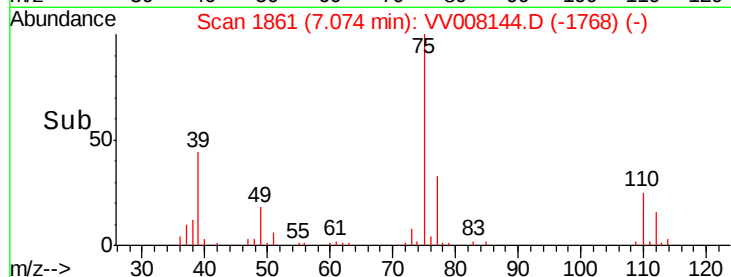
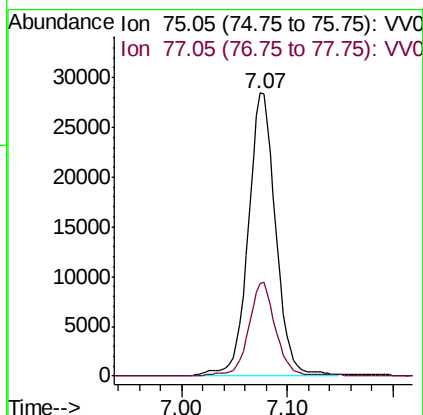
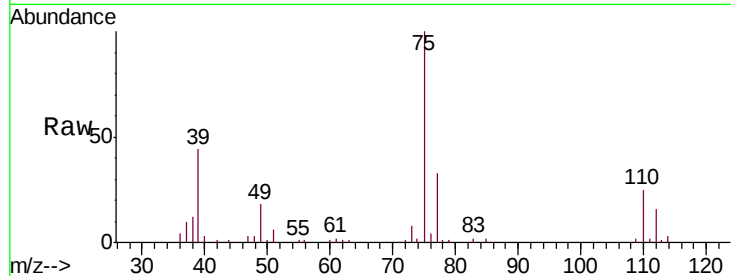




#39
 cis-1,3-Dichloropropene
 Concen: 5.293 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VV008144.D
 Acq: 08 Oct 2018 10:21

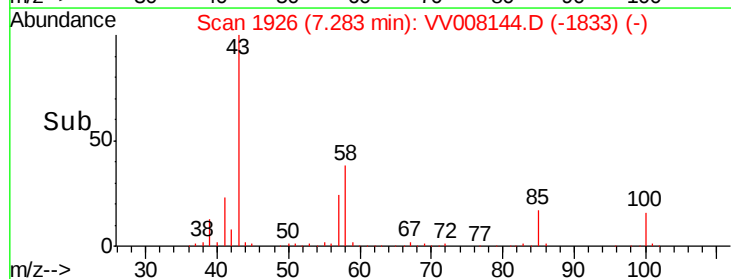
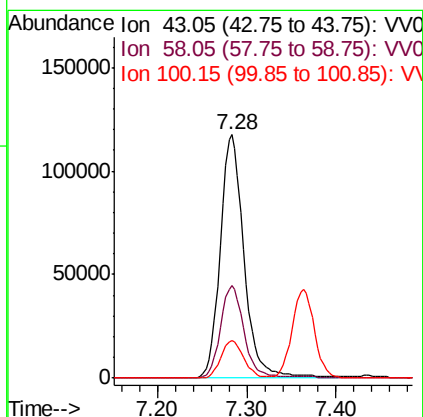
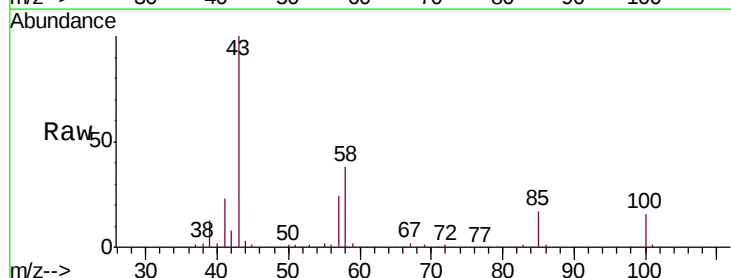
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00578

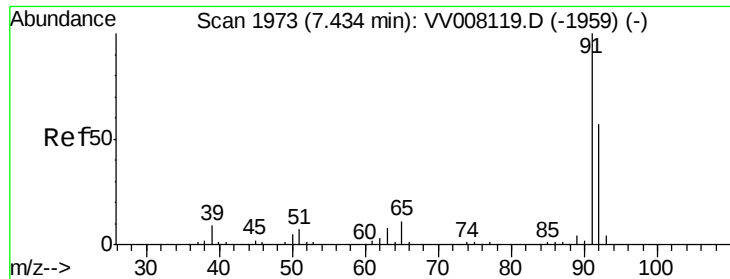
Tgt Ion: 75 Resp: 51741
 Ion Ratio Lower Upper
 75 100
 77 32.8 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 50.353 ug/L
 RT: 7.28 min Scan# 1926
 Delta R.T. 0.00 min
 Lab File: VV008144.D
 Acq: 08 Oct 2018 10:21

Tgt Ion: 43 Resp: 217514
 Ion Ratio Lower Upper
 43 100
 58 37.3 29.8 44.8
 100 14.9 11.6 17.4





#42

Toluene

Concen: 5.462 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

MSVOA_V

ClientSampleId :

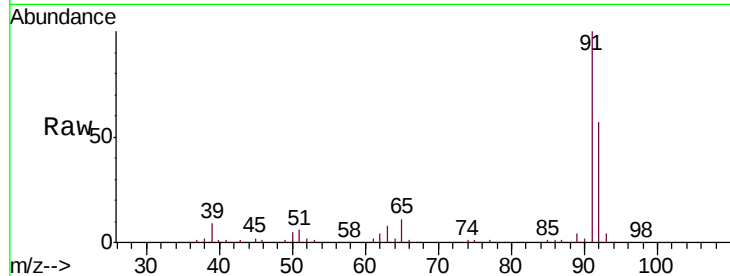
VSTD00578

Tgt Ion: 91 Resp: 163927

Ion Ratio Lower Upper

91 100

92 57.4 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VV008119.D (-1959) (-)

Ion 92.15 (91.85 to 92.85): VV008119.D (-1959) (-)

7.43

100000

80000

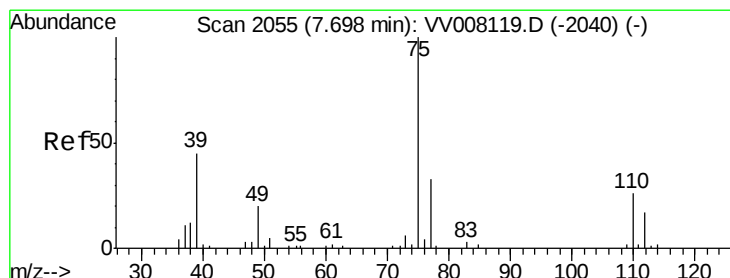
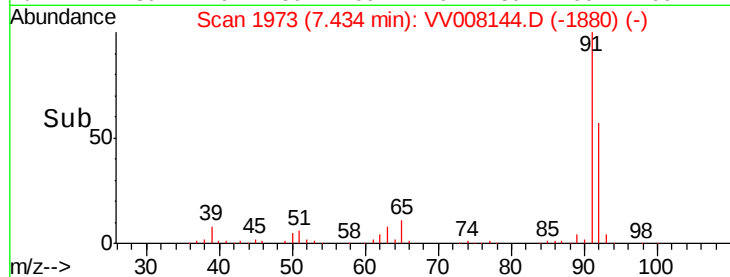
60000

40000

20000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.402 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV008144.D

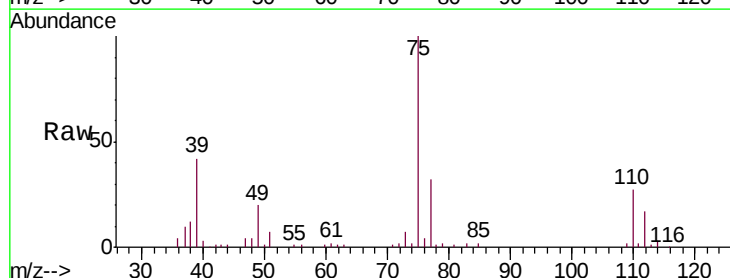
Acq: 08 Oct 2018 10:21

Tgt Ion: 75 Resp: 42936

Ion Ratio Lower Upper

75 100

77 32.0 23.4 43.6



Abundance Ion 75.05 (74.75 to 75.75): VV008119.D (-2040) (-)

Ion 77.05 (76.75 to 77.75): VV008119.D (-2040) (-)

7.70

30000

25000

20000

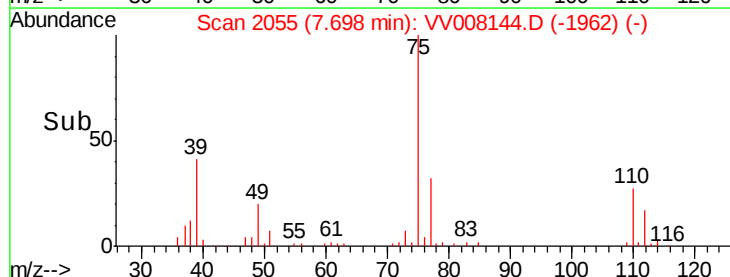
15000

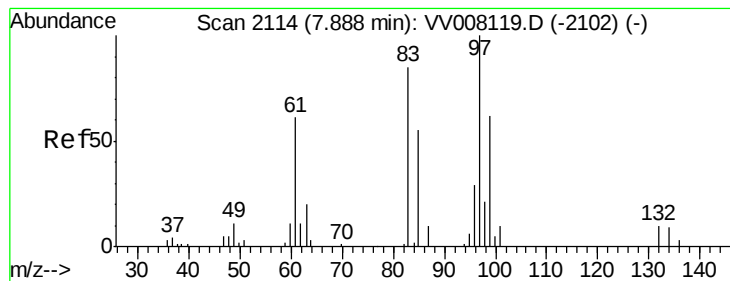
10000

5000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 5.057 ug/L

RT: 7.89 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD00578

Tgt Ion: 97 Resp: 27036

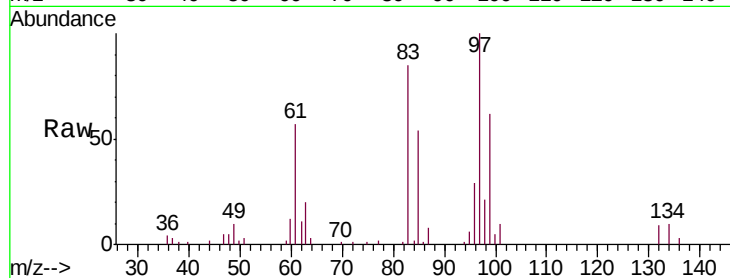
Ion Ratio Lower Upper

97 100

99 61.7 42.6 79.0

83 85.1 57.5 106.7

85 53.6 36.5 67.7

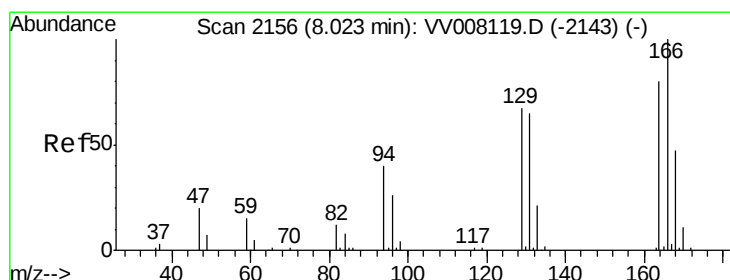
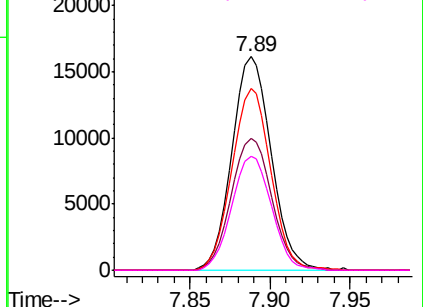
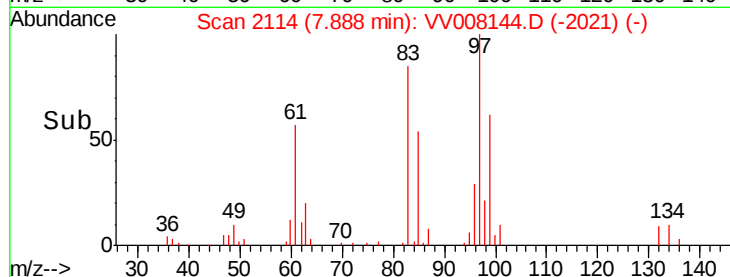


Abundance Ion 96.95 (96.65 to 97.65): VV0

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: 5.280 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Tgt Ion: 164 Resp: 38879

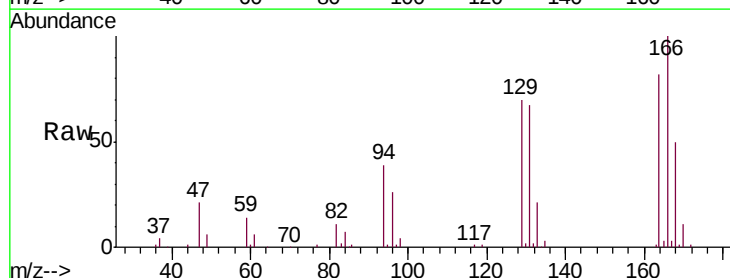
Ion Ratio Lower Upper

164 100

129 84.7 62.2 115.4

131 80.8 60.5 112.5

166 121.4 92.1 171.1

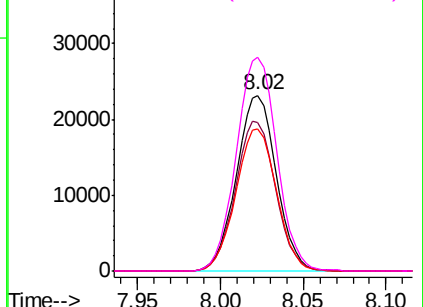
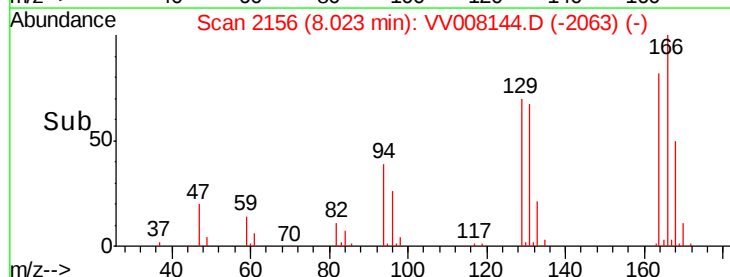


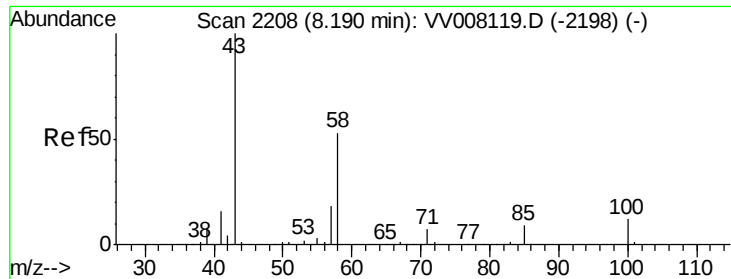
Abundance Ion 163.90 (163.60 to 164.60): V

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

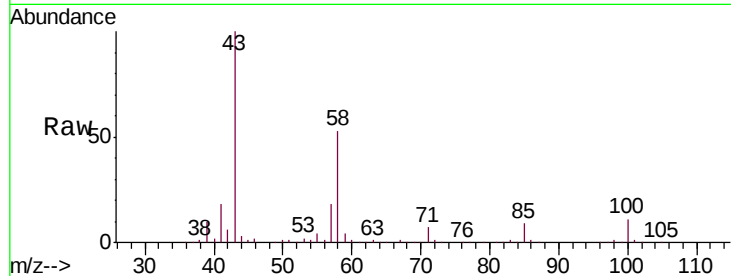




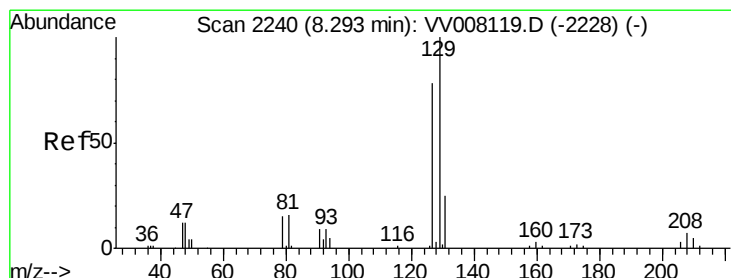
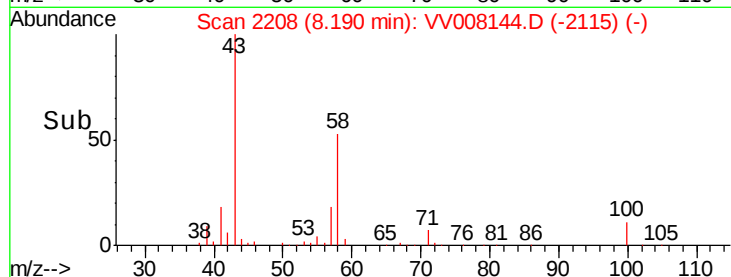
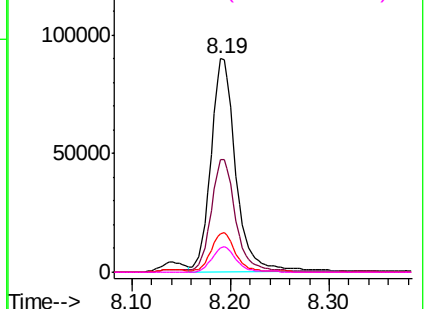
#48
2-Hexanone
Concen: 53.337 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VV008144.D
Acq: 08 Oct 2018 10:21

Instrument :
MSVOA_V
ClientSampleId :
VSTD00578

Tgt Ion: 43 Resp: 156419
Ion Ratio Lower Upper
43 100
58 51.6 40.5 60.7
57 18.4 14.6 22.0
100 11.9 9.3 13.9

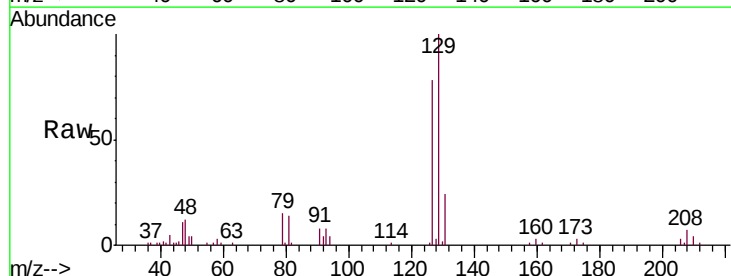


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

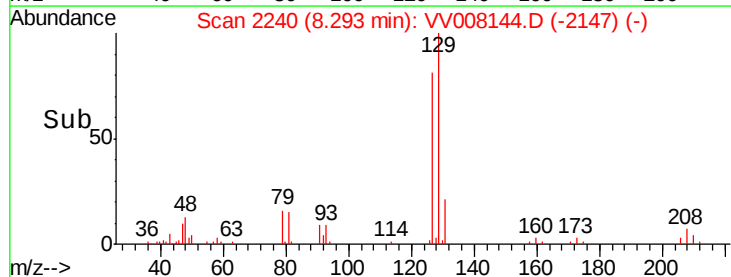
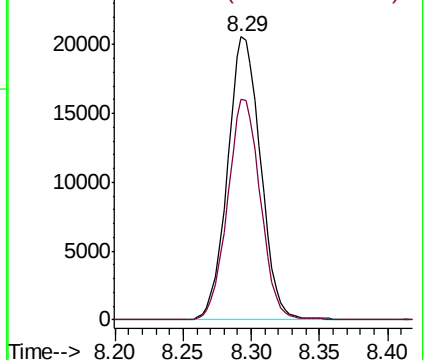


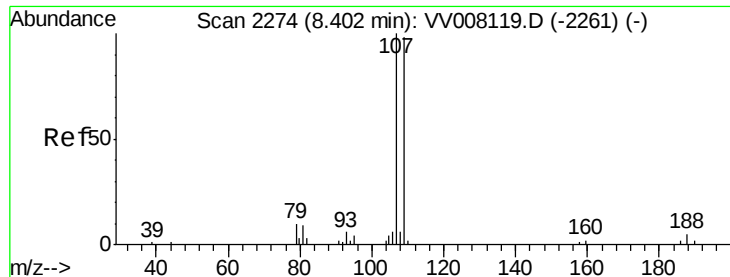
#49
Dibromochloromethane
Concen: 5.200 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV008144.D
Acq: 08 Oct 2018 10:21

Tgt Ion: 129 Resp: 34684
Ion Ratio Lower Upper
129 100
127 78.1 54.5 101.3



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

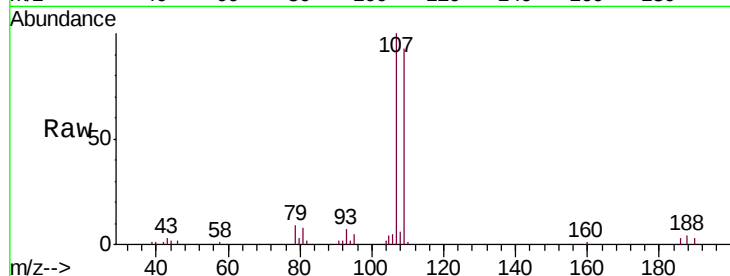




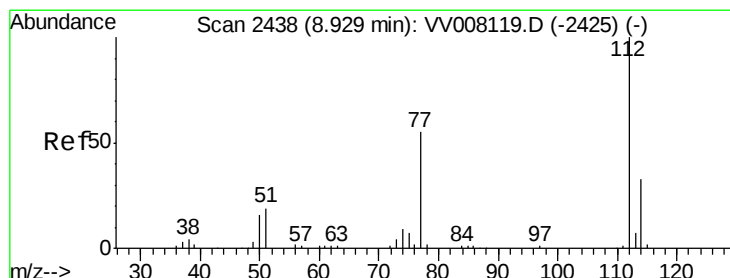
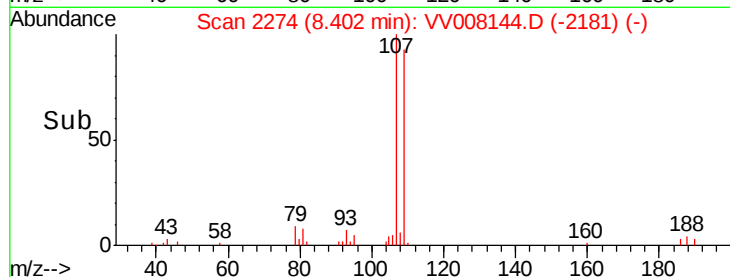
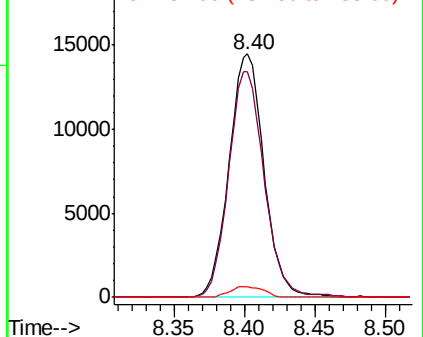
#50
1,2-Dibromoethane
Concen: 5.182 ug/L
RT: 8.40 min Scan# 2274
Delta R.T. 0.00 min
Lab File: VV008144.D
Acq: 08 Oct 2018 10:21

Instrument :
MSVOA_V
ClientSampleId :
VSTD00578

Tgt Ion:107 Resp: 25156
Ion Ratio Lower Upper
107 100
109 92.6 65.5 121.6
188 4.4 3.5 5.3

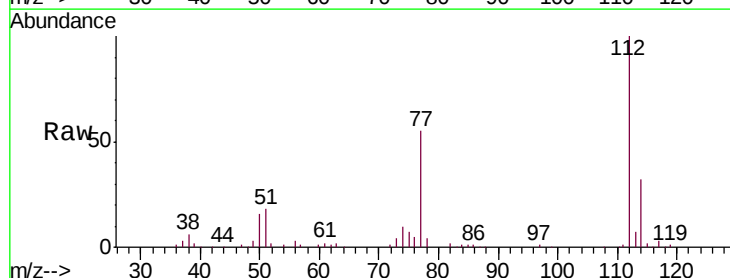


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

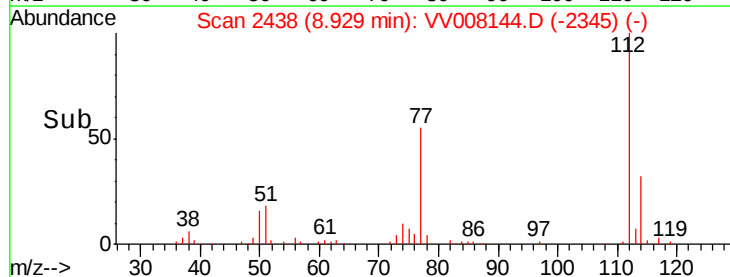
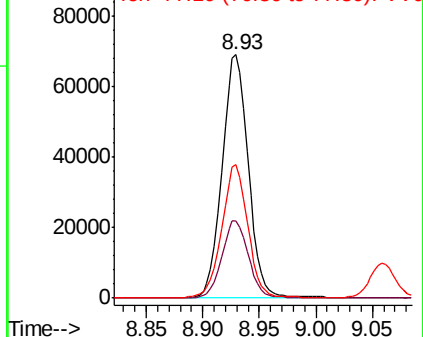


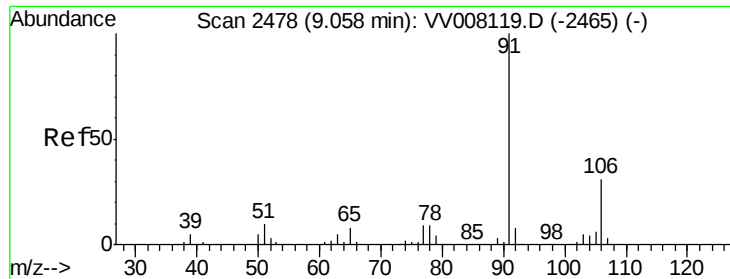
#51
Chlorobenzene
Concen: 5.303 ug/L
RT: 8.93 min Scan# 2438
Delta R.T. 0.00 min
Lab File: VV008144.D
Acq: 08 Oct 2018 10:21

Tgt Ion:112 Resp: 111308
Ion Ratio Lower Upper
112 100
114 31.8 22.8 42.4
77 54.7 44.6 66.8



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

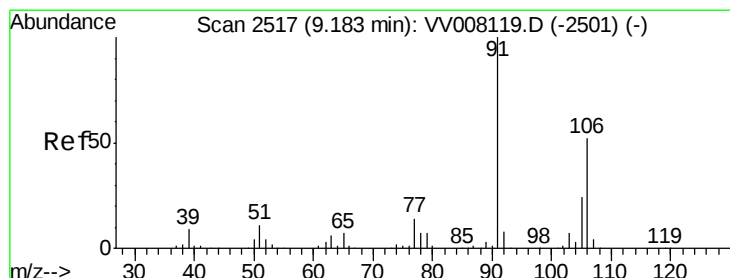
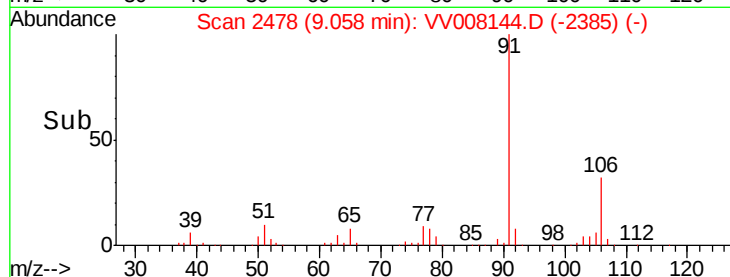
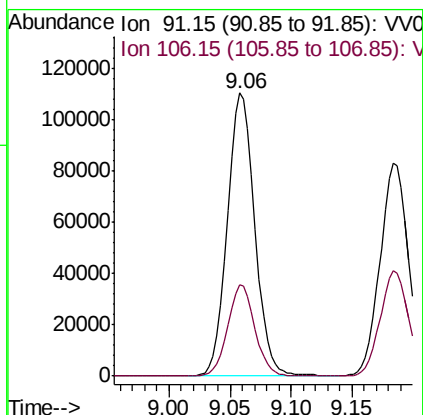
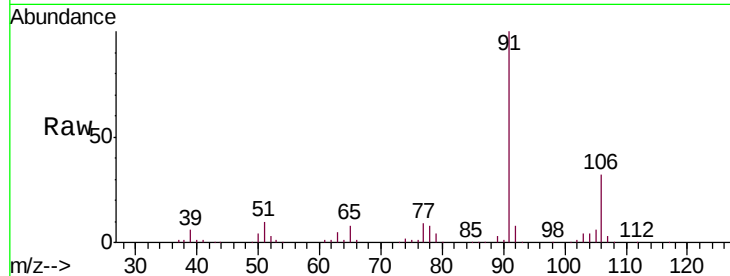




#52
Ethylbenzene
Concen: 5.336 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. 0.00 min
Lab File: VV008144.D
Acq: 08 Oct 2018 10:21

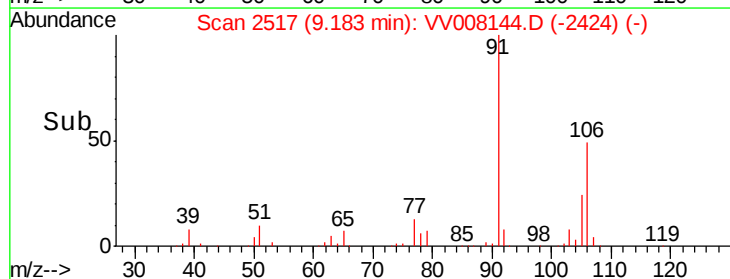
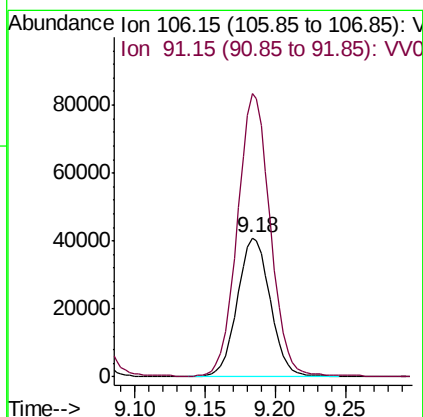
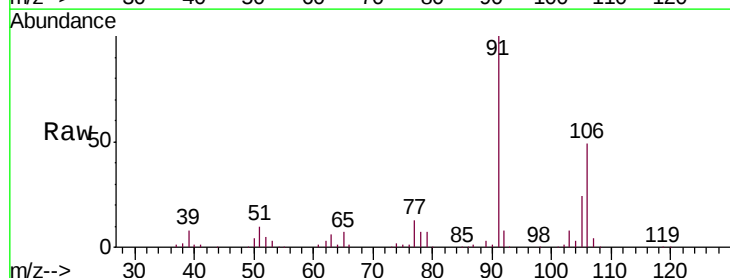
Instrument :
MSVOA_V
ClientSampleId :
VSTD00578

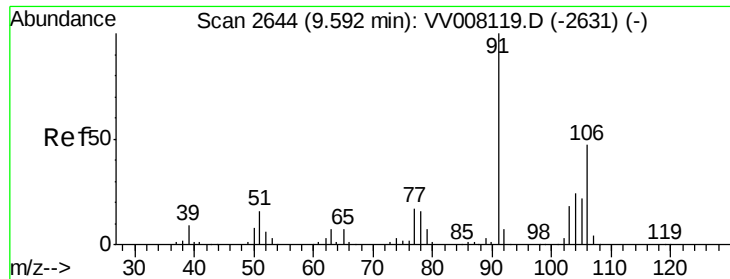
Tgt Ion: 91 Resp: 174762
Ion Ratio Lower Upper
91 100
106 32.1 22.3 41.5



#53
m,p-xylene
Concen: 5.366 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. 0.00 min
Lab File: VV008144.D
Acq: 08 Oct 2018 10:21

Tgt Ion: 106 Resp: 66628
Ion Ratio Lower Upper
106 100
91 203.3 140.8 261.4

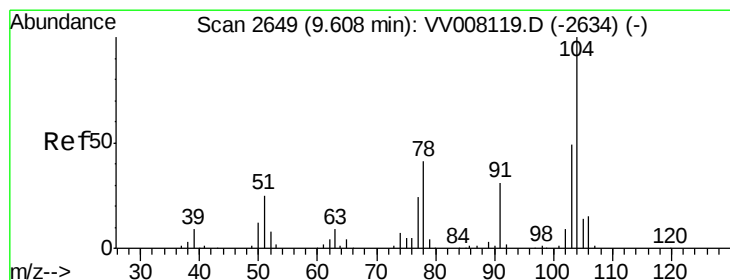
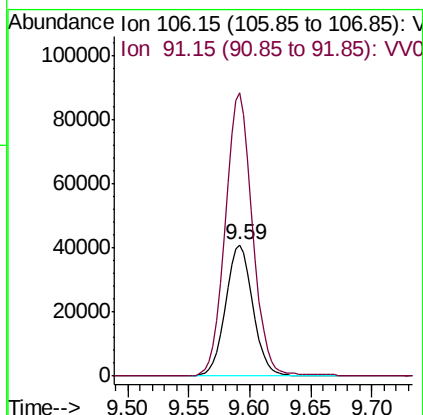
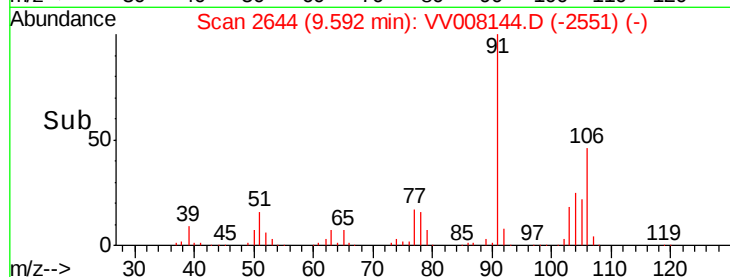
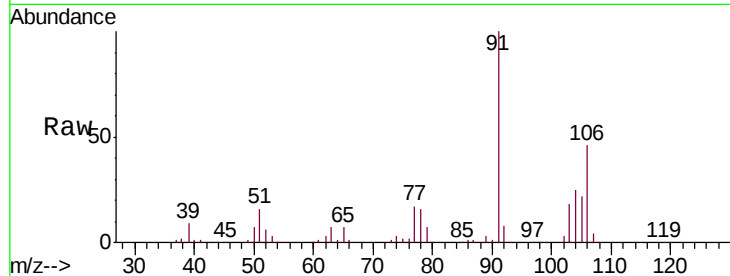




#54
o-xylene
Concen: 5.439 ug/L
RT: 9.59 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VV008144.D
Acq: 08 Oct 2018 10:21

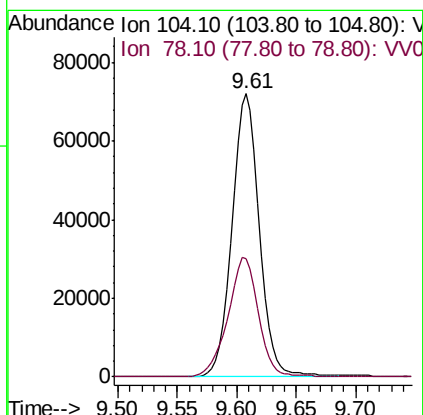
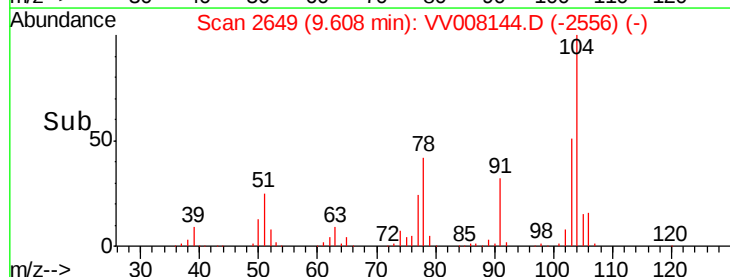
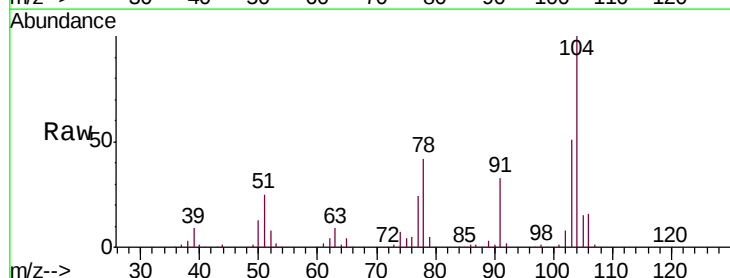
Instrument :
MSVOA_V
ClientSampleId :
VSTD00578

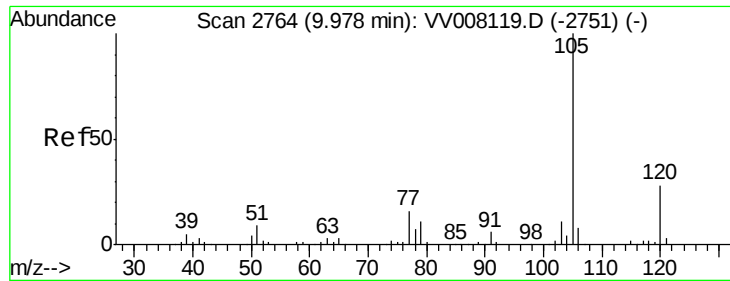
Tgt Ion:106 Resp: 64475
Ion Ratio Lower Upper
106 100
91 215.5 149.1 276.9



#55
Styrene
Concen: 5.683 ug/L
RT: 9.61 min Scan# 2649
Delta R.T. 0.00 min
Lab File: VV008144.D
Acq: 08 Oct 2018 10:21

Tgt Ion:104 Resp: 114740
Ion Ratio Lower Upper
104 100
78 42.0 29.5 54.9





#56

Isopropylbenzene

Concen: 5.527 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD00578

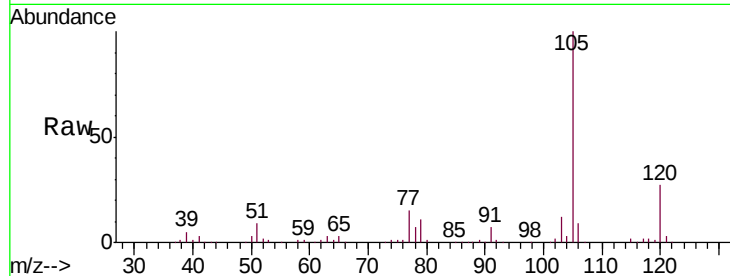
Tgt Ion: 105 Resp: 180216

Ion Ratio Lower Upper

105 100

120 27.3 21.9 32.9

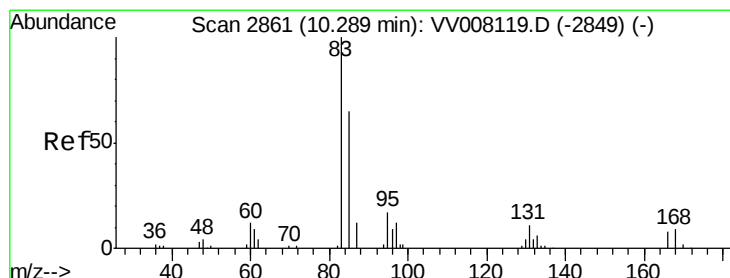
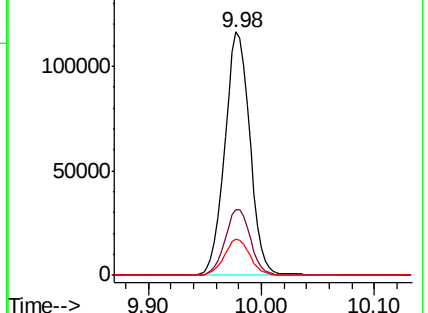
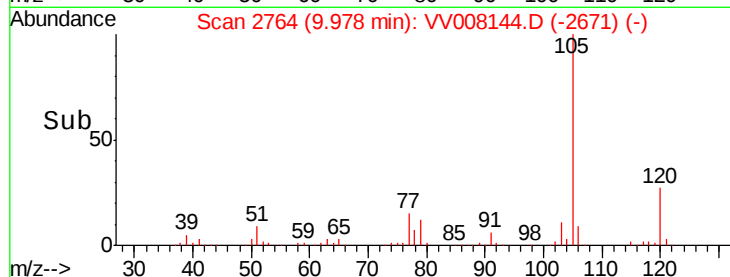
77 15.2 12.2 18.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.904 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

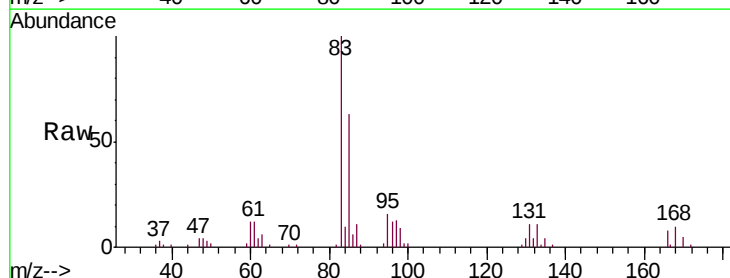
Tgt Ion: 83 Resp: 30398

Ion Ratio Lower Upper

83 100

85 63.3 45.1 83.7

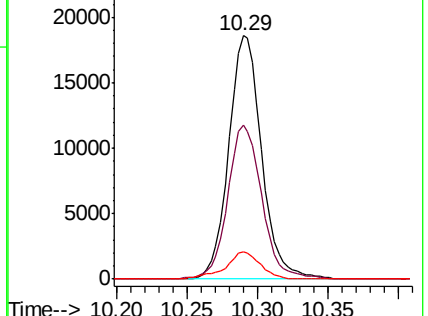
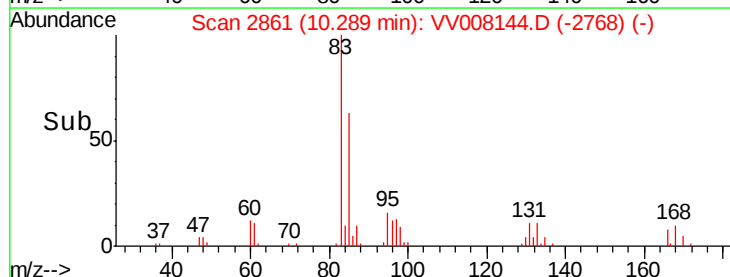
131 11.1 8.8 13.2

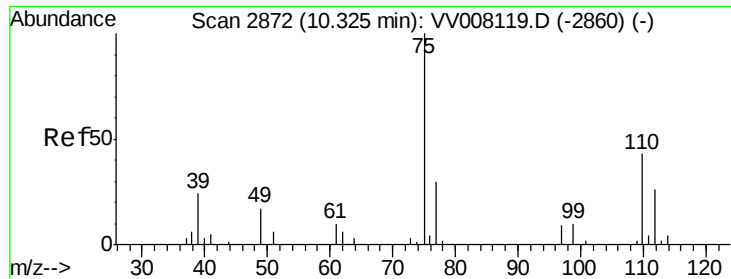


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.054 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

MSVOA_V

ClientSampleId :

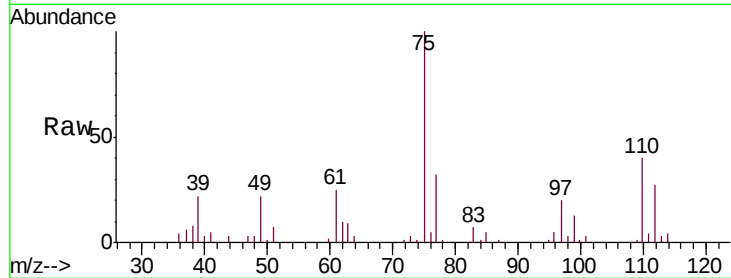
VSTD00578

Tgt Ion: 75 Resp: 22491

Ion Ratio Lower Upper

75 100

77 32.1 27.8 41.6



Abundance Ion 75.00 (74.70 to 75.70): VV008119.D (-2860) (-)

Ion 77.00 (76.70 to 77.70): VV008119.D (-2860) (-)

10.32

15000

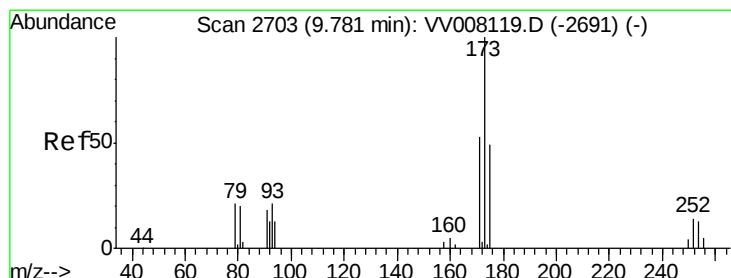
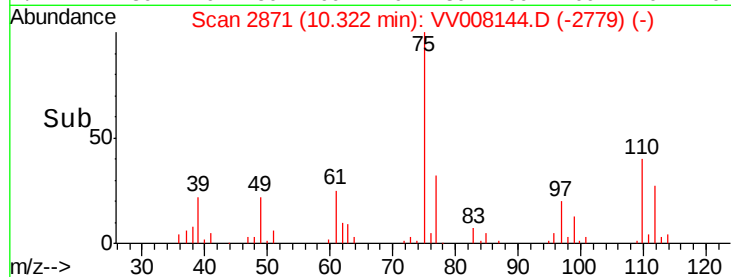
10000

5000

0

Time-->

10.25 10.30 10.35



#61

Bromoform

Concen: 5.203 ug/L

RT: 9.78 min Scan# 2703

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

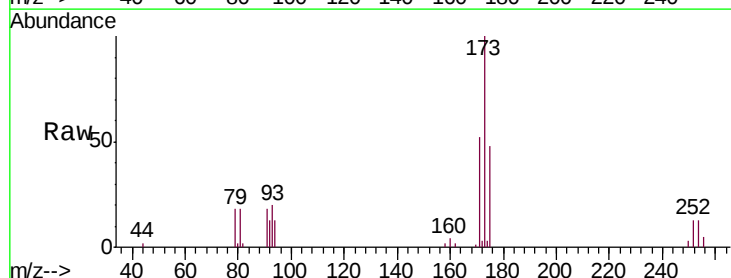
Tgt Ion: 173 Resp: 19728

Ion Ratio Lower Upper

173 100

175 48.6 39.8 59.8

254 12.5 9.4 14.0



Abundance Ion 172.90 (172.60 to 173.60): VV008119.D (-2691) (-)

Ion 174.90 (174.60 to 175.60): VV008119.D (-2691) (-)

Ion 253.75 (253.45 to 254.45): VV008119.D (-2691) (-)

9.78

15000

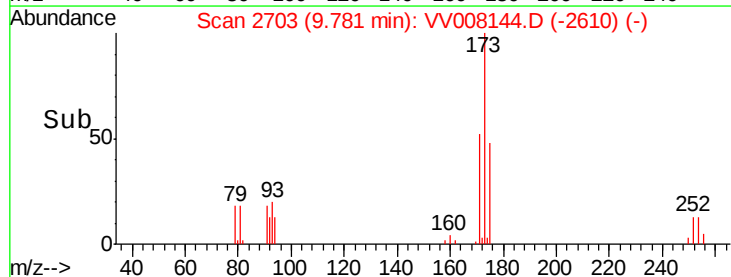
10000

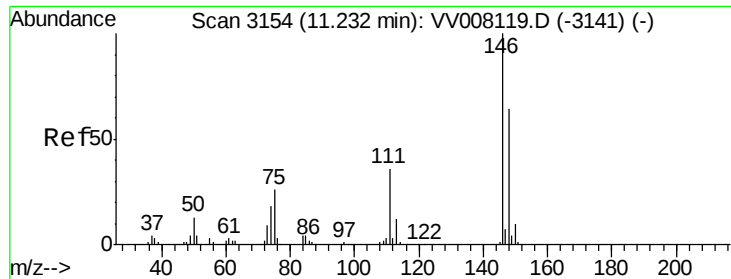
5000

0

Time-->

9.70 9.75 9.80 9.85





#62

1,3-Dichlorobenzene

Concen: 5.046 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD00578

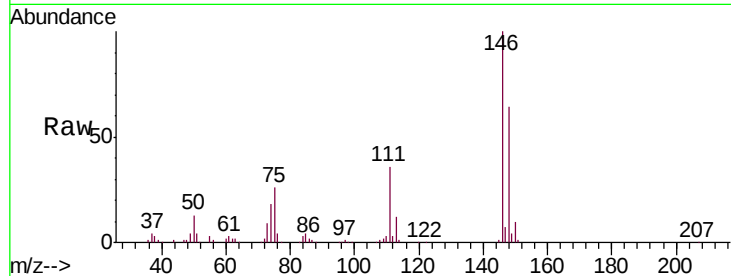
Tgt Ion:146 Resp: 92509

Ion Ratio Lower Upper

146 100

111 36.2 25.8 48.0

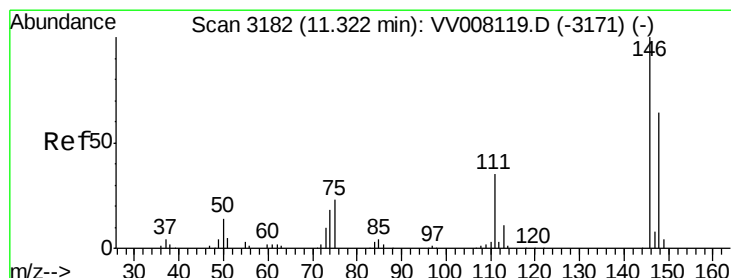
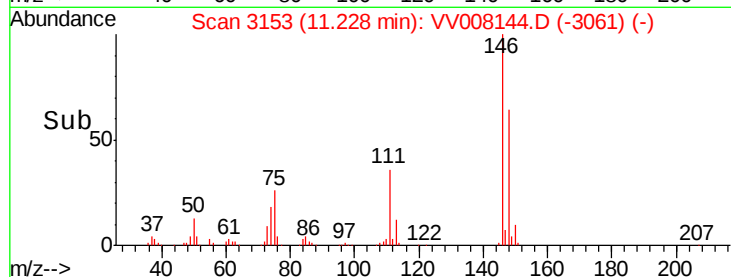
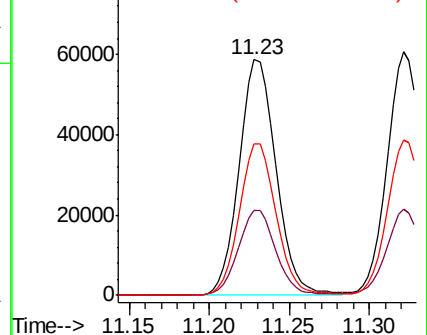
148 64.1 44.4 82.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.135 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

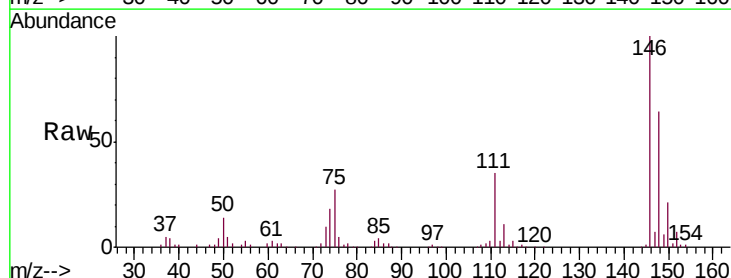
Tgt Ion:146 Resp: 95959

Ion Ratio Lower Upper

146 100

111 35.4 24.2 45.0

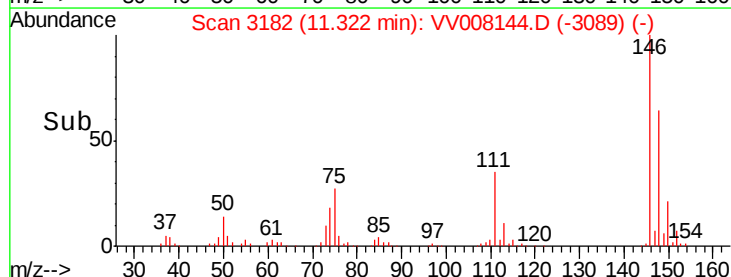
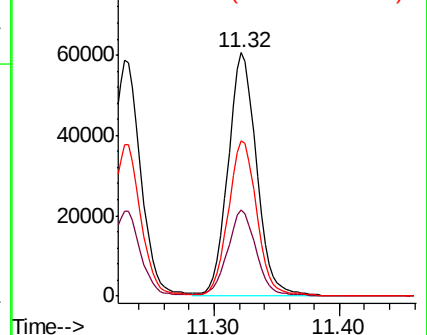
148 63.7 44.0 81.6

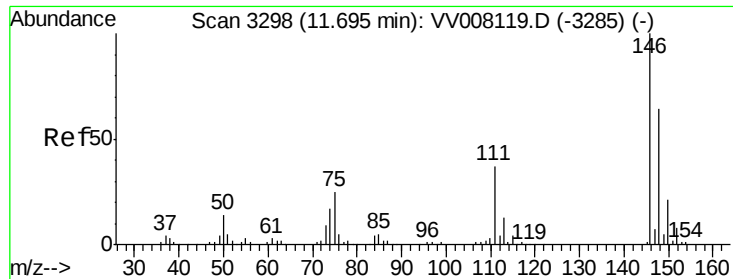


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.037 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD00578

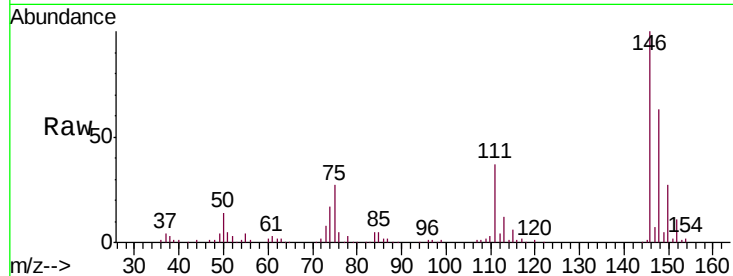
Tgt Ion:146 Resp: 89218

Ion Ratio Lower Upper

146 100

111 37.5 31.8 47.6

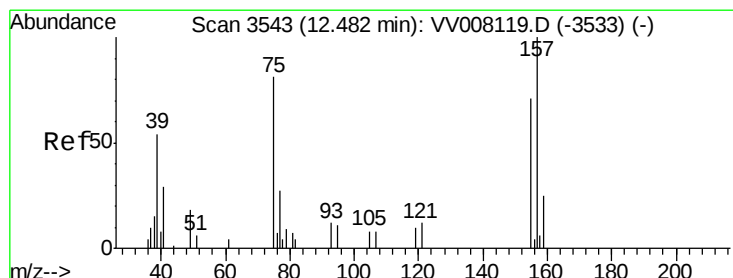
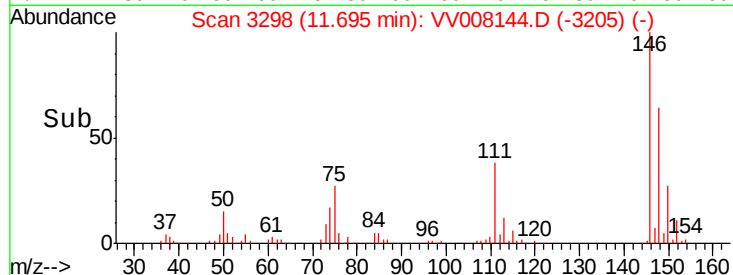
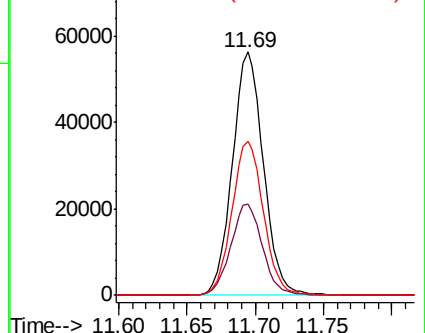
148 63.4 52.2 78.2



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: 4.997 ug/L

RT: 12.48 min Scan# 3543

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

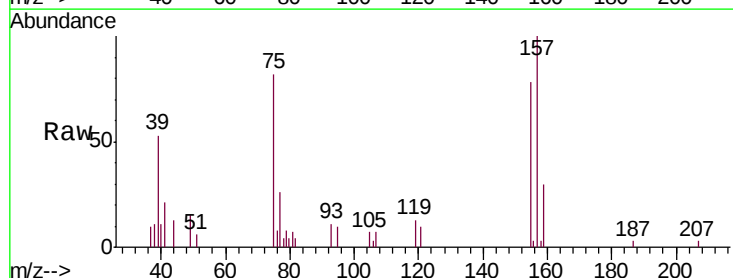
Tgt Ion: 75 Resp: 4622

Ion Ratio Lower Upper

75 100

155 95.5 74.7 112.1

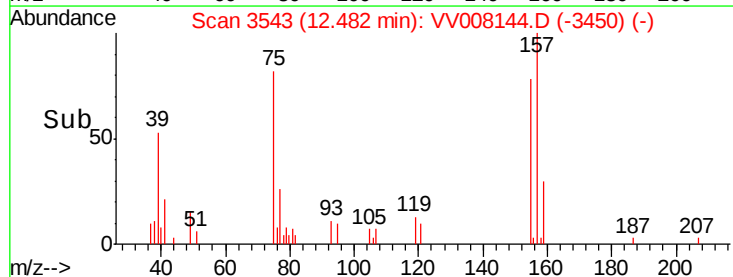
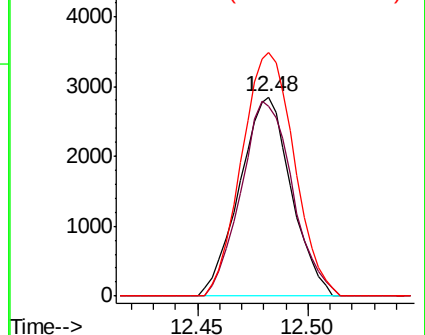
157 122.4 93.1 139.7

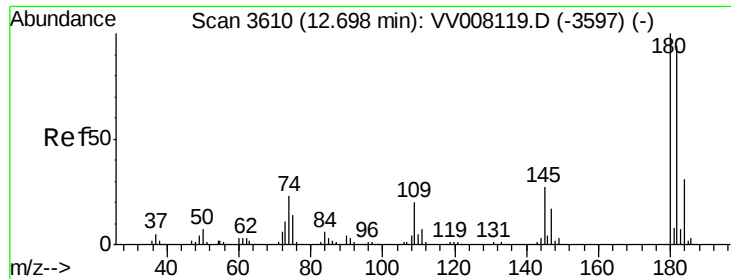


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

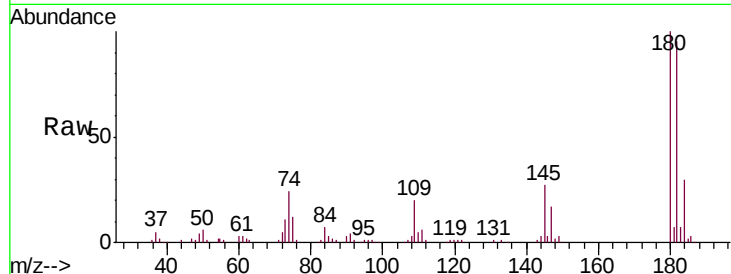




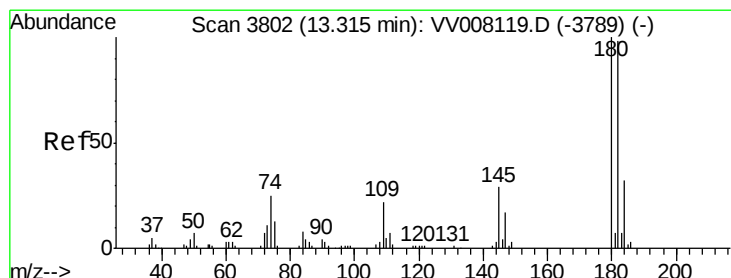
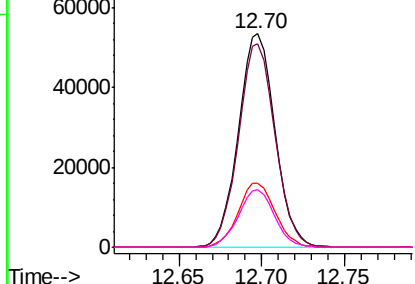
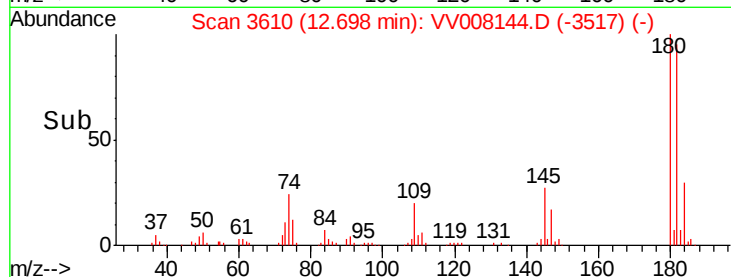
#67
 1,3,5-Trichlorobenzene
 Concen: 5.237 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV008144.D
 Acq: 08 Oct 2018 10:21

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00578

Tgt Ion:180 Resp: 81813
 Ion Ratio Lower Upper
 180 100
 182 95.6 77.0 115.6
 184 30.6 24.2 36.2
 145 26.7 22.2 33.2

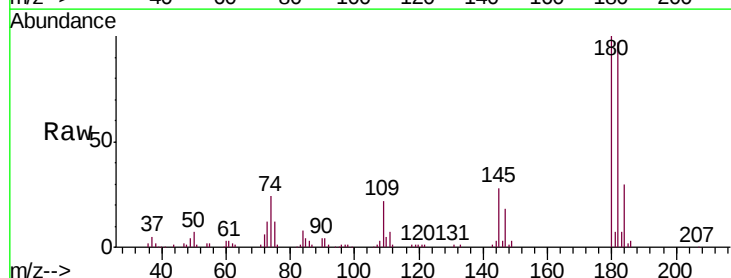


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

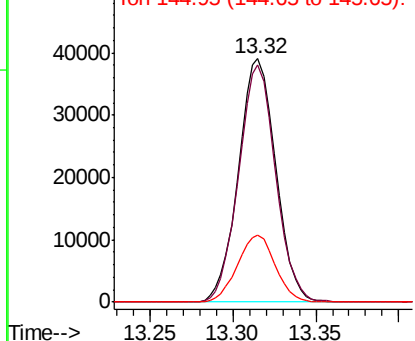
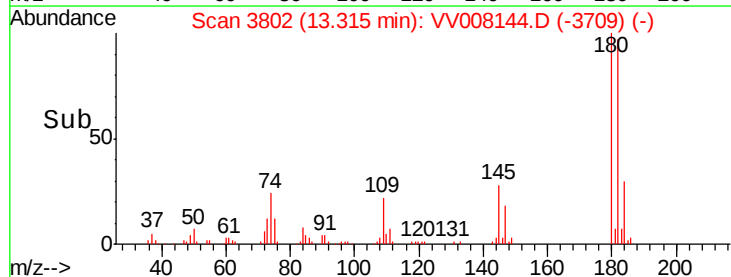


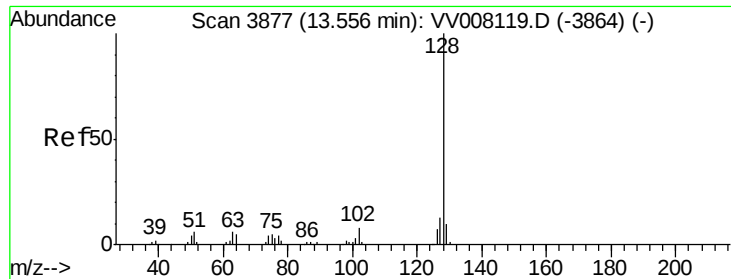
#68
 1,2,4-trichlorobenzene
 Concen: 5.248 ug/L
 RT: 13.32 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV008144.D
 Acq: 08 Oct 2018 10:21

Tgt Ion:180 Resp: 61160
 Ion Ratio Lower Upper
 180 100
 182 96.4 76.6 114.8
 145 27.7 22.1 33.1



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





#69

Naphthalene

Concen: 4.910 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

Instrument :

MSVOA_V

ClientSampleId :

VSTD00578

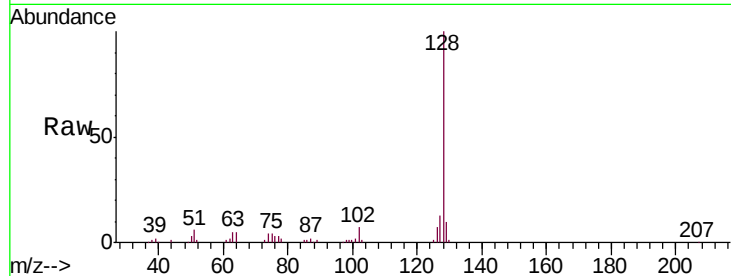
Tgt Ion:128 Resp: 73056

Ion Ratio Lower Upper

128 100

129 10.6 8.5 12.7

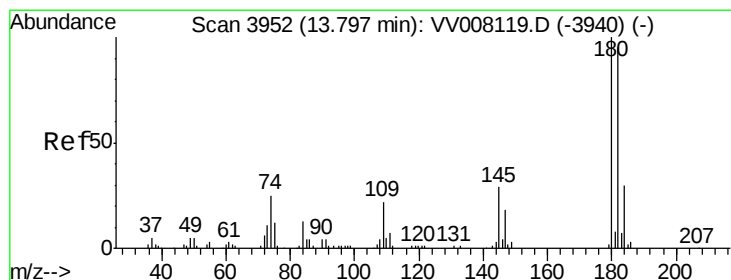
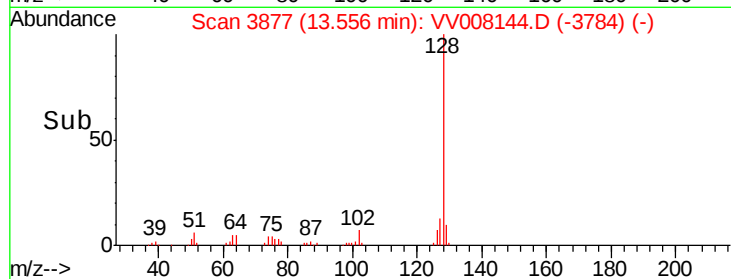
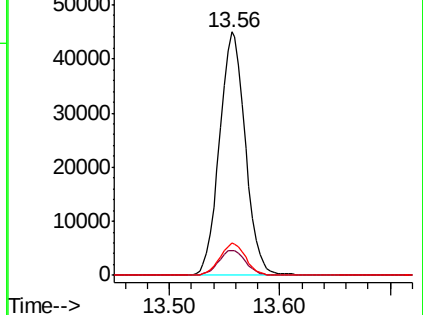
127 13.2 10.2 15.2



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: 5.079 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV008144.D

Acq: 08 Oct 2018 10:21

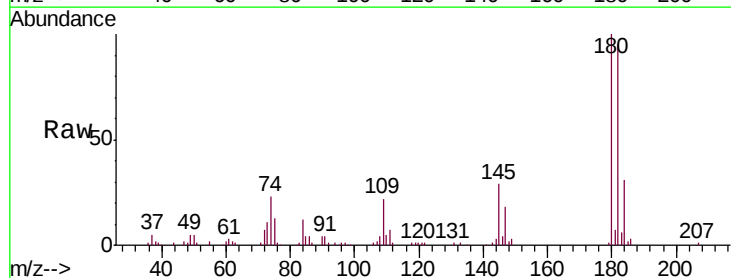
Tgt Ion:180 Resp: 56290

Ion Ratio Lower Upper

180 100

182 96.0 75.1 112.7

145 29.5 23.2 34.8



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

