

Data File : VV009076.D
Acq On : 20 Dec 2018 03:42
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

Quant Time: Dec 20 04:04:11 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Thu Dec 20 03:44:50 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	231653	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	205856	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	90289	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	47879	19.97	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	79.88%
7) Chloroethane-d5	1.58	69	42119	23.78	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.12%
10) 1,1-Dichloroethene-d2	2.13	63	133556	22.28	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	89.12%
20) 2-Butanone-d5	3.93	46	50472	57.83	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	115.66%
24) Chloroform-d	4.40	84	137454	24.68	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.72%
26) 1,2-Dichloroethane-d4	5.08	65	80687	26.55	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	106.20%
29) Benzene-d6	5.10	84	262592	22.84	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	91.36%
33) 1,2-Dichloropropane-d6	6.12	67	79112	24.58	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.32%
37) Toluene-d8	7.36	98	245823	23.10	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.40%
38) trans-1,3-Dichloropropene-	7.66	79	36382	25.73	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	102.92%
39) 2-Hexanone-d5	8.14	63	30864	52.34	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	104.68%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	68560	25.39	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	101.56%
61) 1,2-Dichlorobenzene-d4	11.67	152	80093	23.64	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.56%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	74658	19.661 ug/L	99
3) Chloromethane	1.25	50	58011	22.232 ug/L	99
5) Vinyl chloride	1.32	62	62538	21.468 ug/L	99
6) Bromomethane	1.53	94	42041	30.018 ug/L	96
8) Chloroethane	1.59	64	42921	26.307 ug/L	98
9) Trichlorofluoromethane	1.77	101	135791	27.215 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	79921	23.355 ug/L	98
12) 1,1-Dichloroethene	2.14	96	69523	23.282 ug/L	97
13) Acetone	2.20	43	45820	35.633 ug/L	99
14) Carbon disulfide	2.32	76	204312	21.307 ug/L	100
15) Methyl Acetate	2.46	43	43178	26.480 ug/L	99
16) Methylene chloride	2.53	84	88338	22.646 ug/L	97
17) Methyl tert-butyl Ether	2.80	73	184333	27.171 ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	77535	24.029 ug/L	98
19) 1,1-Dichloroethane	3.23	63	133600	25.541 ug/L	98
21) 2-Butanone	4.02	43	55480	46.034 ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	87668	26.057 ug/L	99

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Quant Title : VOC Analysis
QLast Update : Thu Dec 20 03:44:50 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	42273	26.658	ug/L	99
25) Chloroform	4.43	83	150969	26.892	ug/L	100
27) 1,2-Dichloroethane	5.18	62	102028	26.680	ug/L	100
30) Cyclohexane	4.73	56	109002	21.028	ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	128053	24.127	ug/L	99
32) Carbon tetrachloride	4.88	117	113714	23.468	ug/L	99
34) Benzene	5.15	78	299414	24.277	ug/L	100
35) Trichloroethene	5.96	95	92061	24.759	ug/L	100
36) Methylcyclohexane	6.18	83	129301	21.804	ug/L	100
40) 1,2-Dichloropropane	6.22	63	76181	25.737	ug/L	99
41) Bromodichloromethane	6.56	83	104822	26.868	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	115645	26.685	ug/L	97
43) 4-Methyl-2-pentanone	7.27	43	96727	48.347	ug/L	100
44) Toluene	7.43	91	320891	24.809	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	101127	26.769	ug/L	95
46) 1,1,2-Trichloroethane	7.88	97	72361	29.339	ug/L	97
47) Tetrachloroethene	8.02	164	72924	24.116	ug/L	98
49) 2-Hexanone	8.19	43	67792	40.957	ug/L	99
50) Dibromochloromethane	8.29	129	81172	28.712	ug/L	100
51) 1,2-Dibromoethane	8.40	107	66250	26.749	ug/L	99
52) Chlorobenzene	8.93	112	213352	25.333	ug/L	99
53) Ethylbenzene	9.06	91	346557	24.698	ug/L	98
54) m,p-Xylene	9.18	106	131775	24.802	ug/L	98
55) o-xylene	9.59	106	126845	25.696	ug/L	98
56) Styrene	9.60	104	207938	26.112	ug/L	98
57) Isopropylbenzene	9.98	105	329091	24.529	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	69916	26.222	ug/L #	98
59) 1,2,3-Trichloropropane	10.32	75	59711	25.882	ug/L	98
62) Bromoform	9.78	173	46984	28.821	ug/L	97
63) 1,3-Dichlorobenzene	11.23	146	147304	25.319	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	148770	24.849	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	137265	25.592	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	13417	30.533	ug/L	91
67) 1,3,5-Trichlorobenzene	12.69	180	104970	24.979	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	70251	23.859	ug/L	99
69) Naphthalene	13.55	128	120124	23.686	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	65259	23.992	ug/L	100

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

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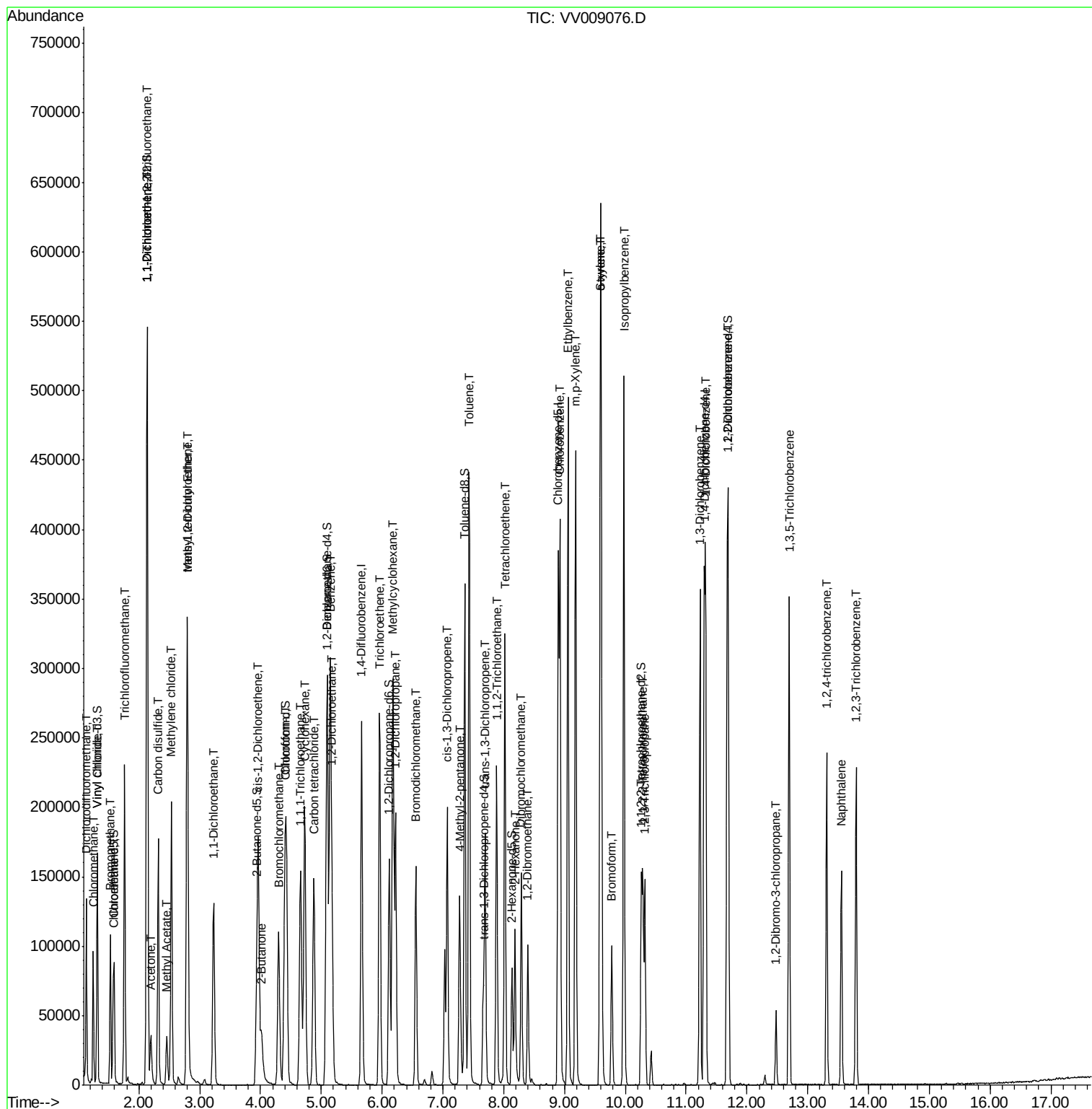
Quant Time: Dec 20 04:04:11 2018

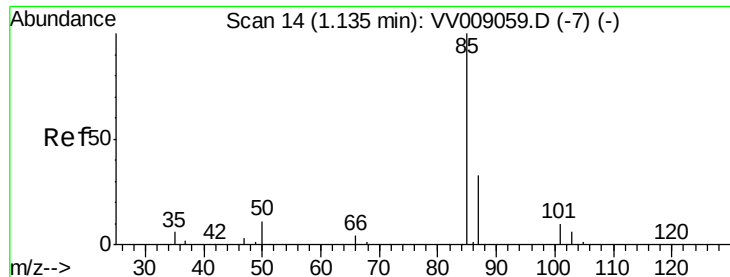
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM120618S.M

Quant Title : VOC Analysis

QLast Update : Thu Dec 20 03:44:50 2018

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 19.661 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

Instrument :

MSVOA_V

ClientSampleId :

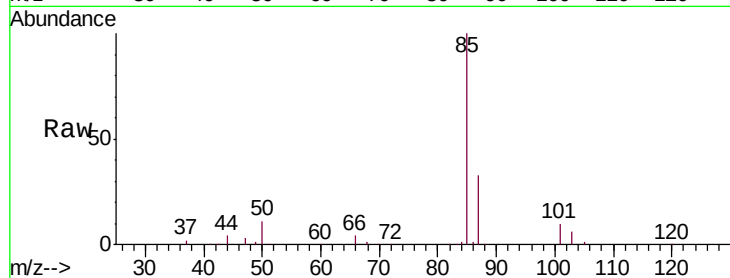
VSTD02569

Tgt Ion: 85 Resp: 74658

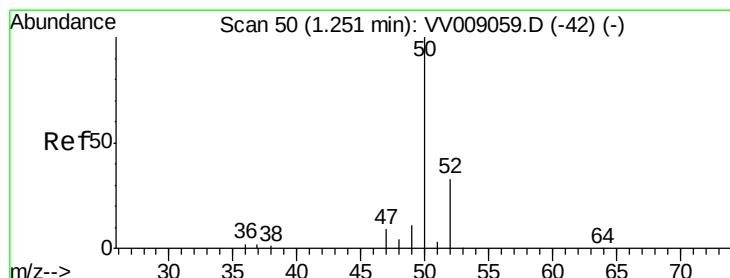
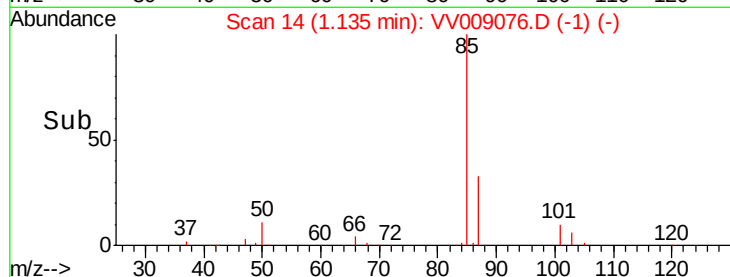
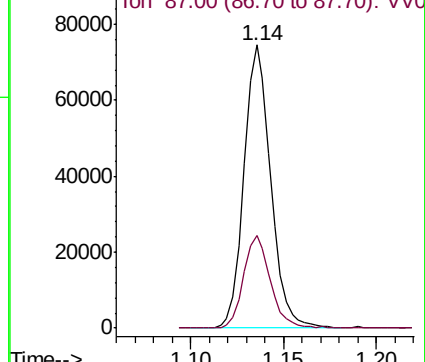
Ion Ratio Lower Upper

85 100

87 32.7 22.4 41.6



Abundance Ion 85.00 (84.70 to 85.70): VV009059.D (-7) (-)



#3

Chloromethane

Concen: 22.232 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV009076.D

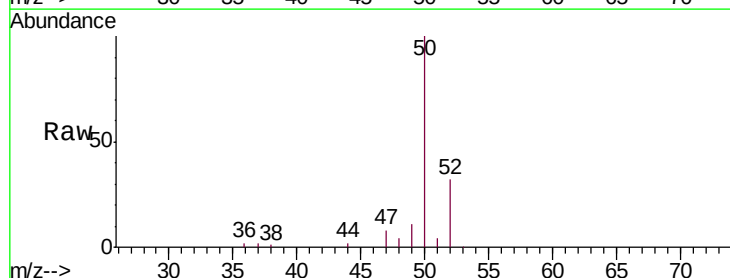
Acq: 20 Dec 2018 03:42

Tgt Ion: 50 Resp: 58011

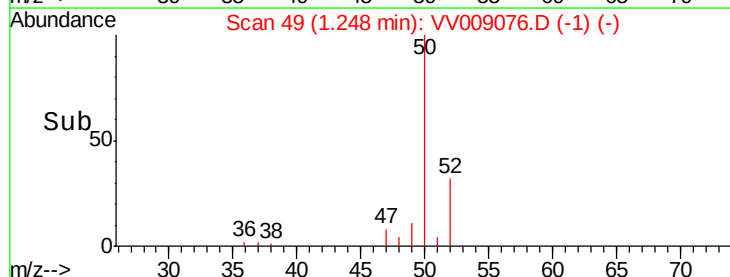
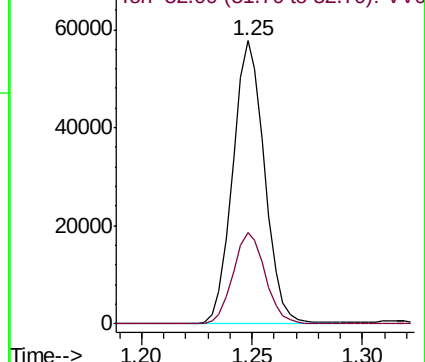
Ion Ratio Lower Upper

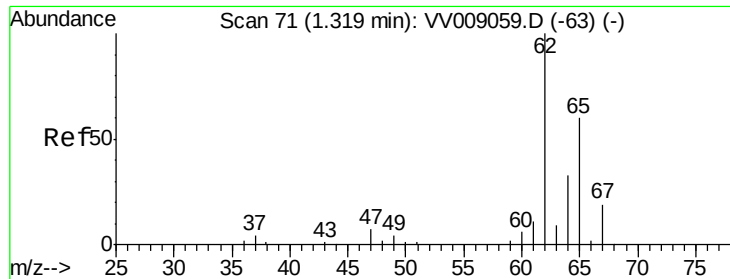
50 100

52 32.4 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VV009059.D (-42) (-)





#5

Vinyl chloride

Concen: 21.468 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

Instrument :

MSVOA_V

ClientSampleId :

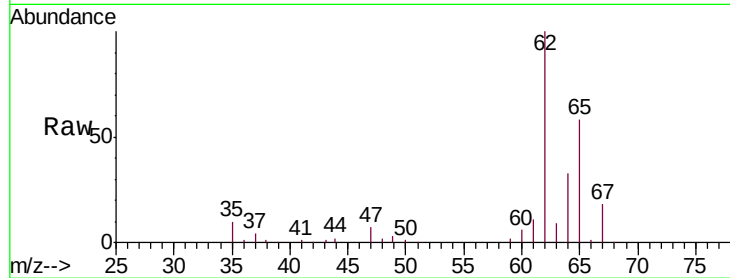
VSTD02569

Tgt Ion: 62 Resp: 62538

Ion Ratio Lower Upper

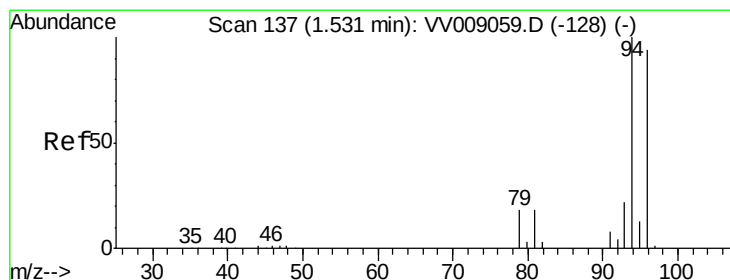
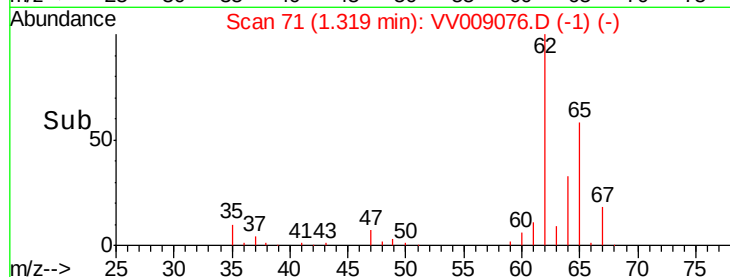
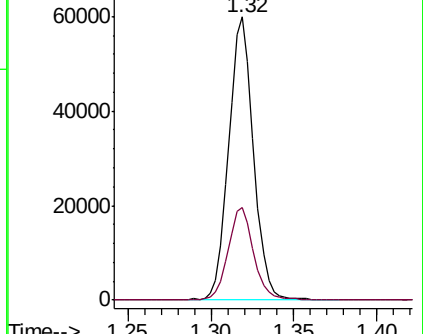
62 100

64 32.7 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 30.018 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV009076.D

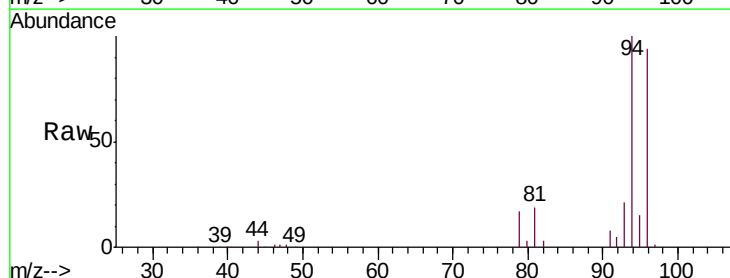
Acq: 20 Dec 2018 03:42

Tgt Ion: 94 Resp: 42041

Ion Ratio Lower Upper

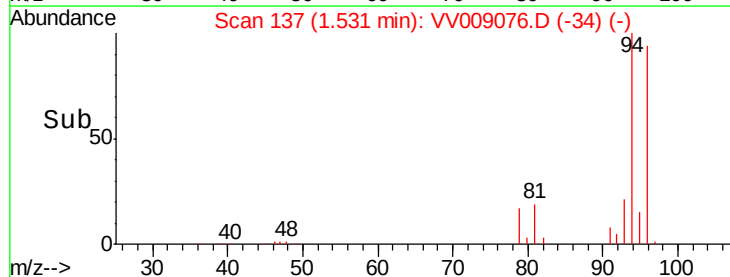
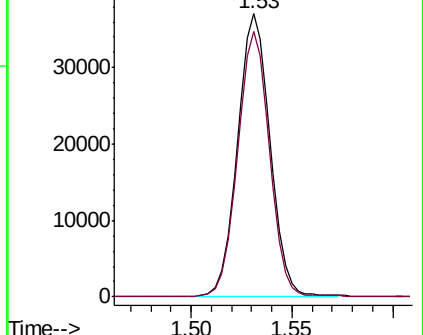
94 100

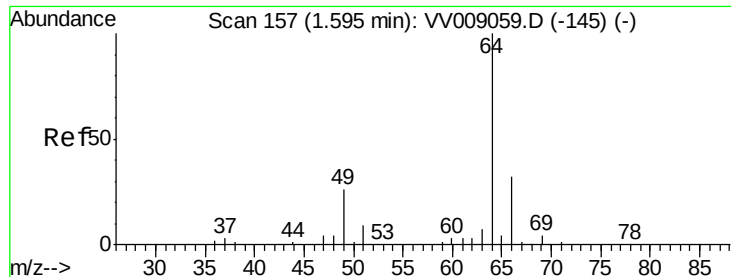
96 91.4 9.5 180.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 26.307 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

Instrument :

MSVOA_V

ClientSampleId :

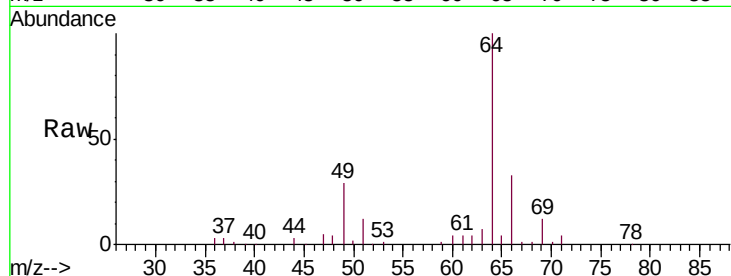
VSTD02569

Tgt Ion: 64 Resp: 42921

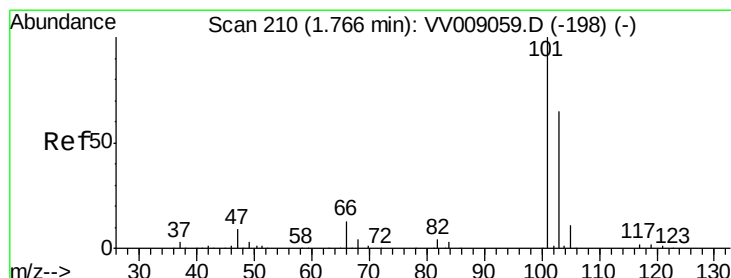
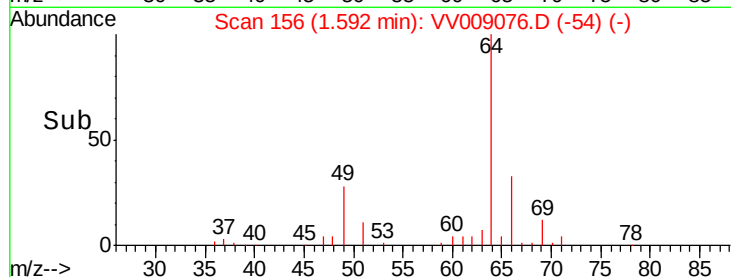
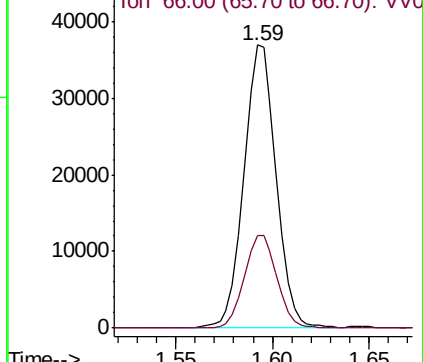
Ion Ratio Lower Upper

64 100

66 32.6 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VV009059.D (-145) (-)



#9

Trichlorofluoromethane

Concen: 27.215 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV009076.D

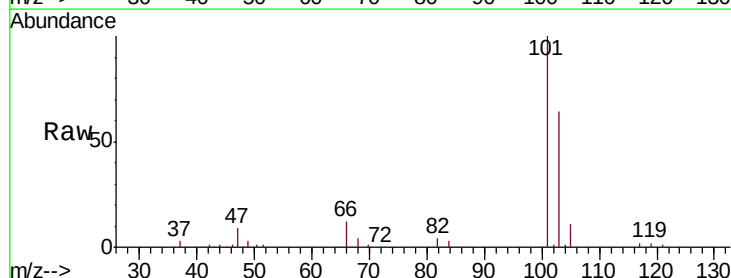
Acq: 20 Dec 2018 03:42

Tgt Ion: 101 Resp: 135791

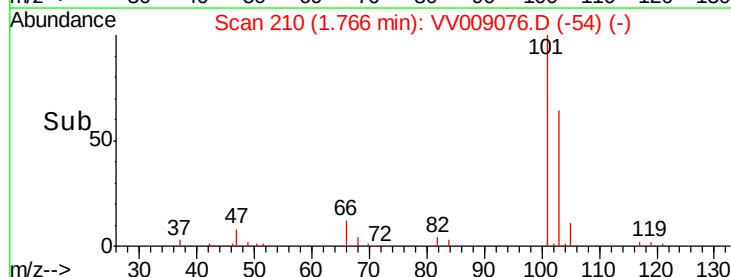
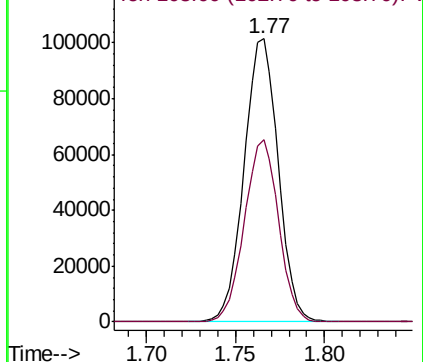
Ion Ratio Lower Upper

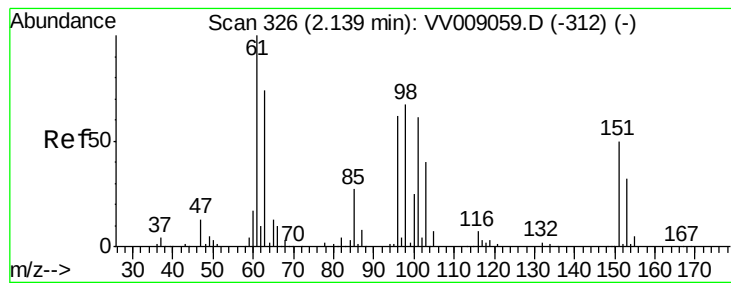
101 100

103 64.3 44.8 83.2



Abundance Ion 101.00 (100.70 to 101.70): VV009059.D (-198) (-)





#11

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

Concen: 23.355 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

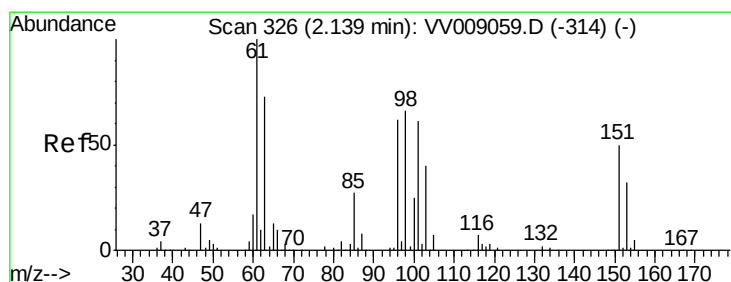
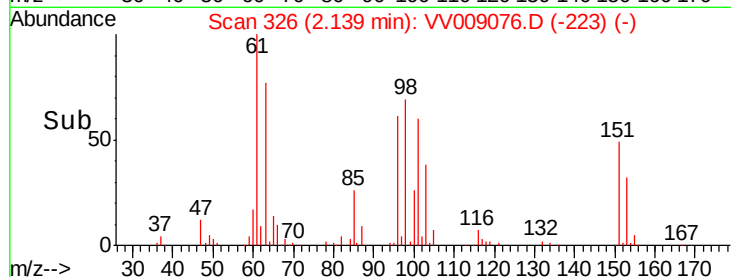
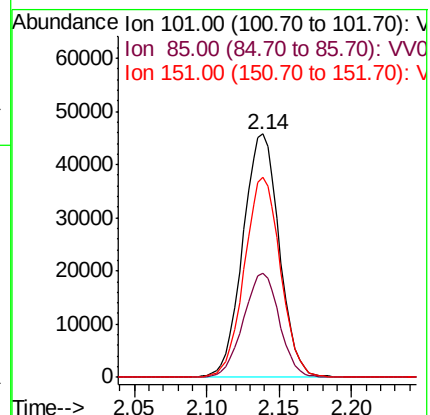
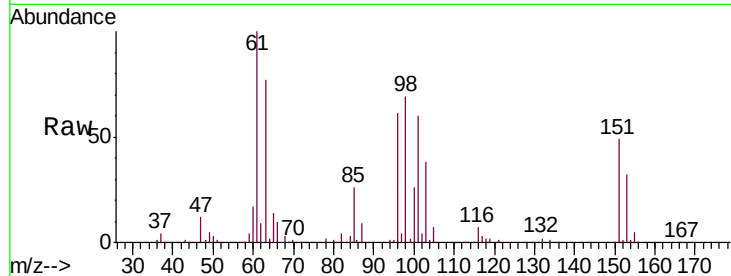
Tgt Ion:101 Resp: 79921

Ion Ratio Lower Upper

101 100

85 42.3 32.5 48.7

151 81.6 64.2 96.4



#12

1,1-Dichloroethene

Concen: 23.282 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

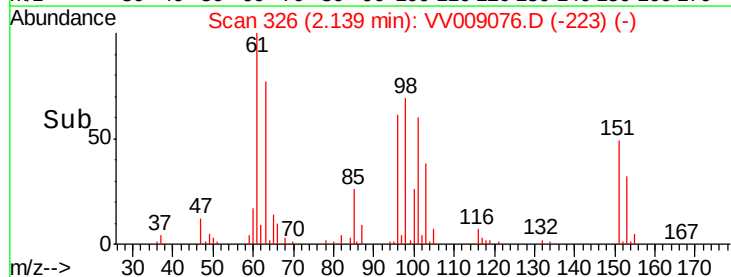
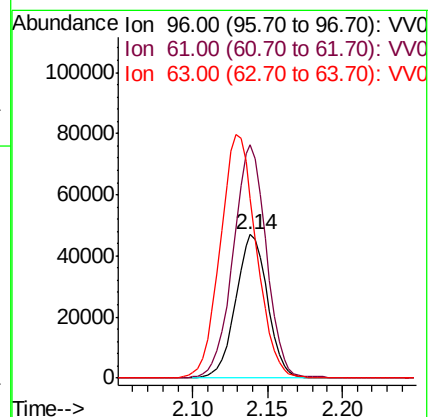
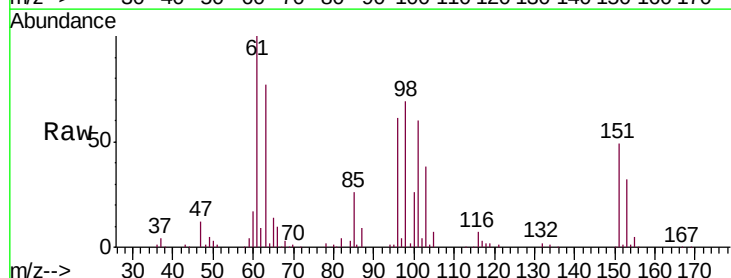
Tgt Ion: 96 Resp: 69523

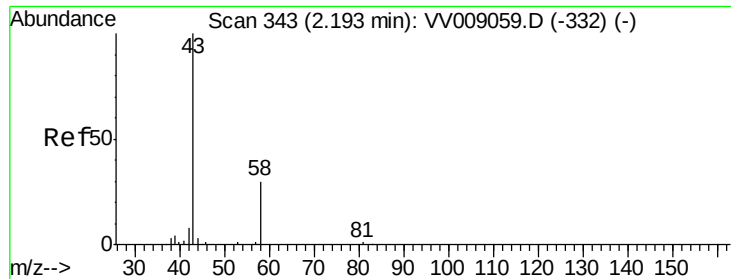
Ion Ratio Lower Upper

96 100

61 162.8 114.0 211.6

63 125.2 82.4 153.0





#13

Acetone

Concen: 35.633 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

Instrument :

MSVOA_V

ClientSampleId :

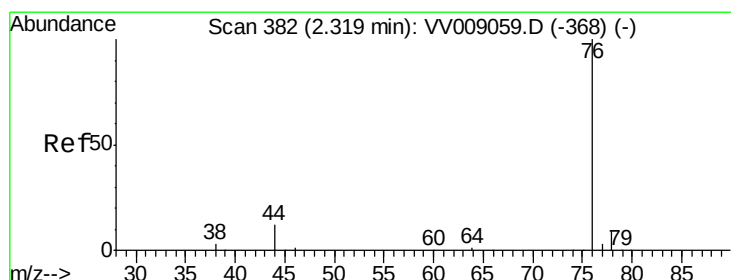
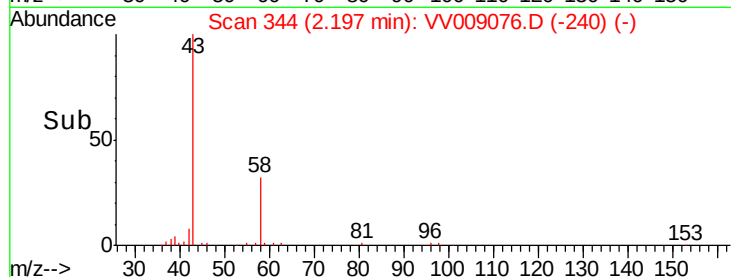
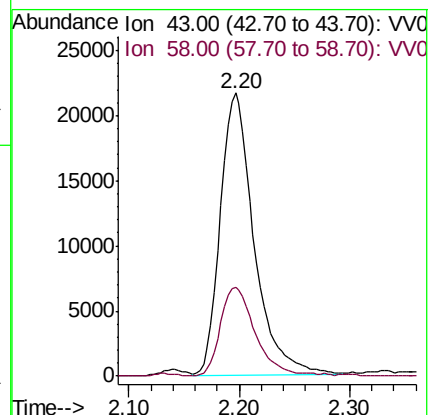
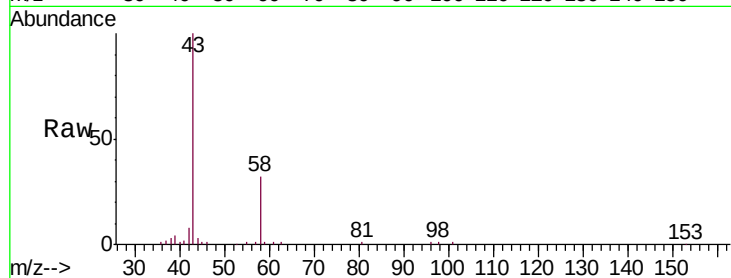
VSTD02569

Tgt Ion: 43 Resp: 45820

Ion Ratio Lower Upper

43 100

58 32.3 0.0 65.4



#14

Carbon disulfide

Concen: 21.307 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV009076.D

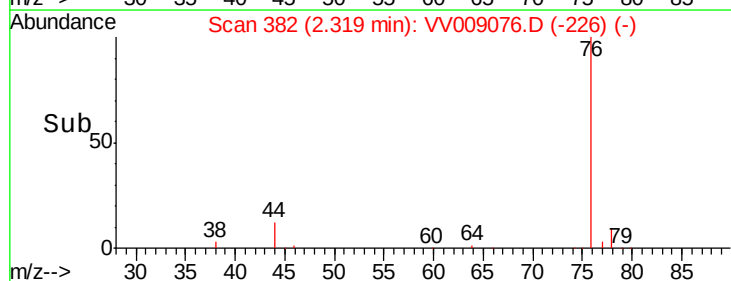
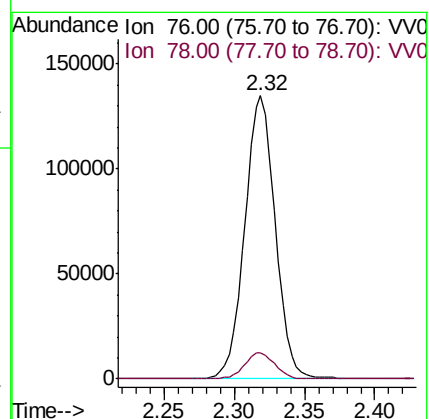
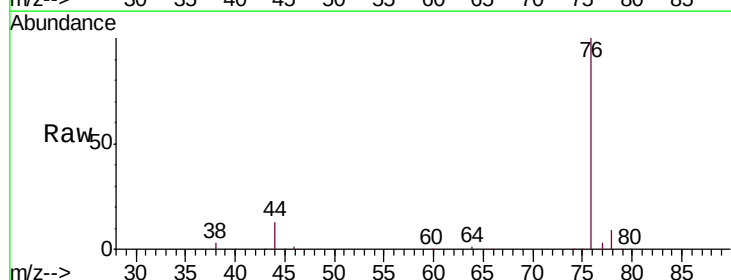
Acq: 20 Dec 2018 03:42

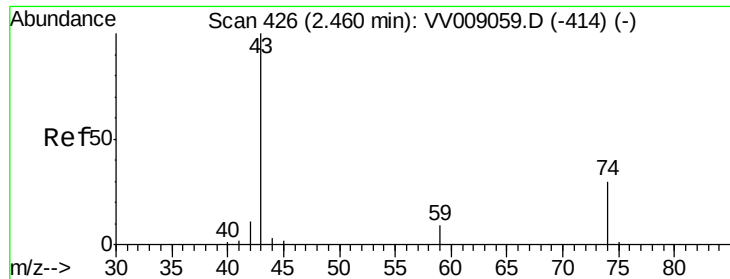
Tgt Ion: 76 Resp: 204312

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0





#15

Methyl Acetate

Concen: 26.480 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

Instrument :

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ClientSampleId :

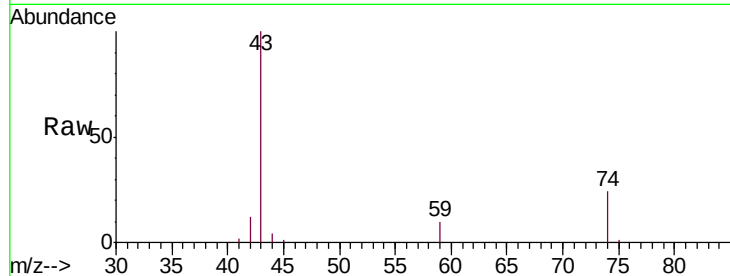
VSTD02569

Tgt Ion: 43 Resp: 43178

Ion Ratio Lower Upper

43 100

74 24.9 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VV009059.D (-414) (-)

Ion 74.00 (73.70 to 74.70): VV009059.D (-414) (-)

25000

20000

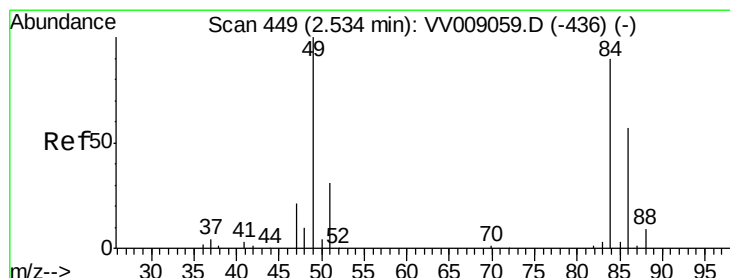
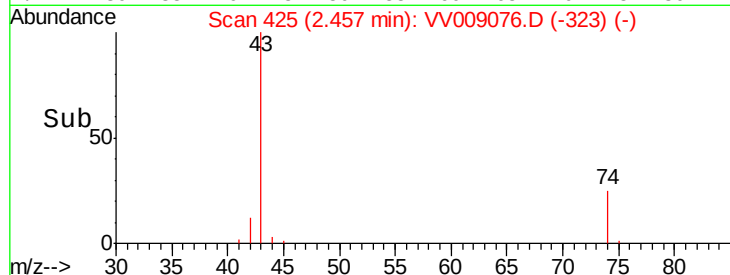
15000

10000

5000

0

Time-->



#16

Methylene chloride

Concen: 22.646 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

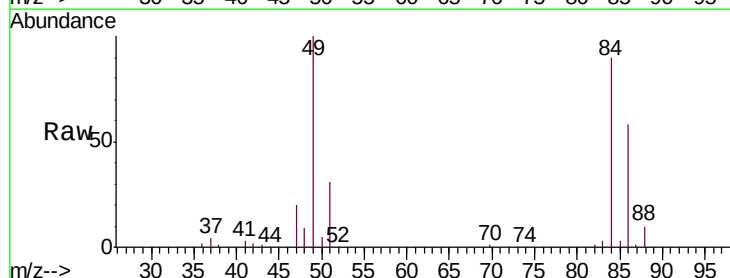
Tgt Ion: 84 Resp: 88338

Ion Ratio Lower Upper

84 100

49 111.0 80.5 149.5

86 64.3 45.5 84.5



Abundance Ion 84.00 (83.70 to 84.70): VV009059.D (-436) (-)

Ion 49.00 (48.70 to 49.70): VV009059.D (-436) (-)

Ion 86.00 (85.70 to 86.70): VV009059.D (-436) (-)

80000

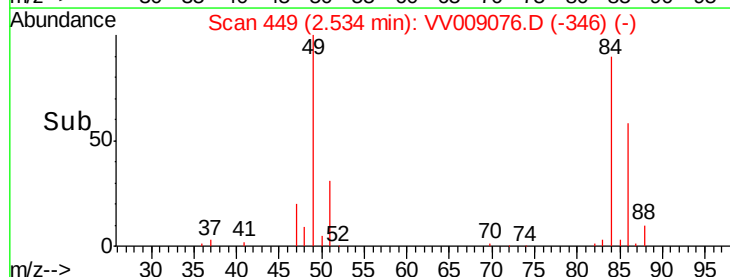
60000

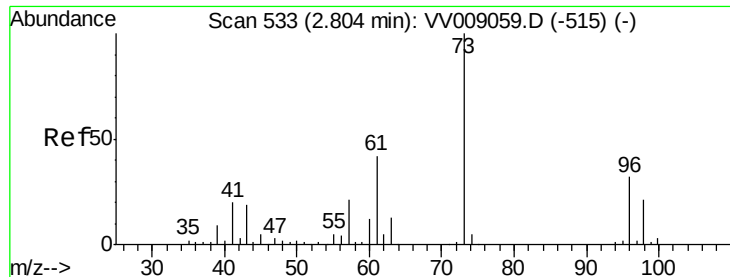
40000

20000

0

Time-->

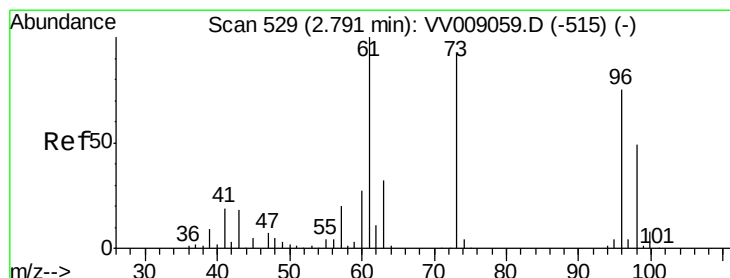
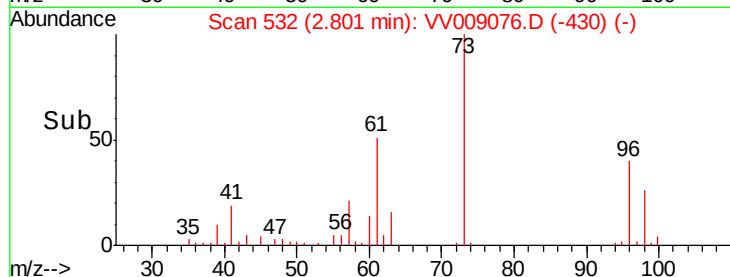
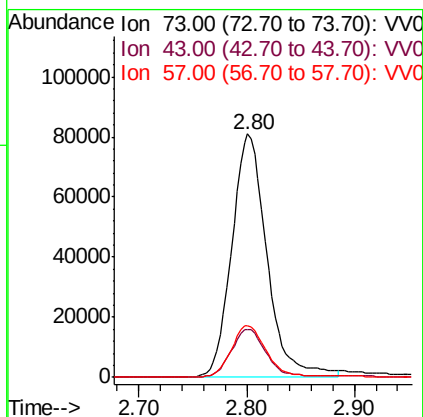
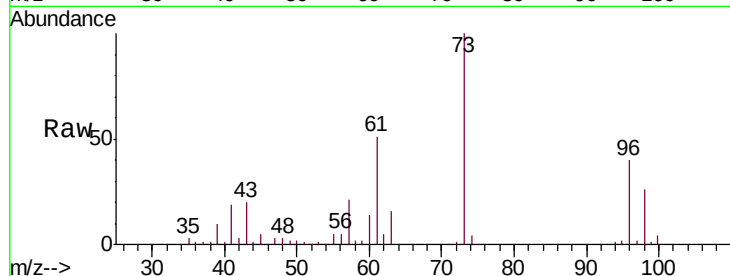




#17
Methyl tert-butyl Ether
Concen: 27.171 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV009076.D
Acq: 20 Dec 2018 03:42

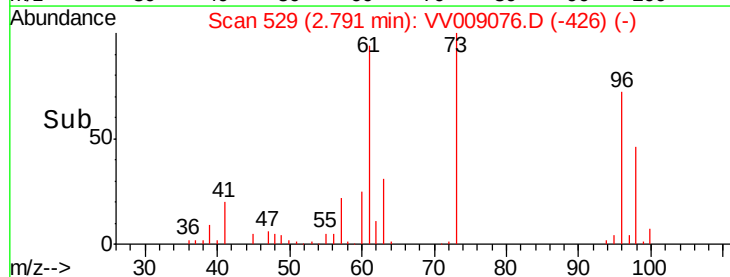
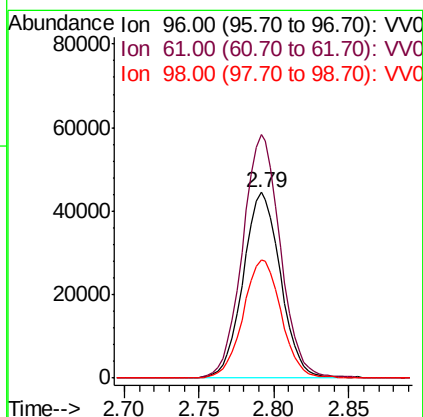
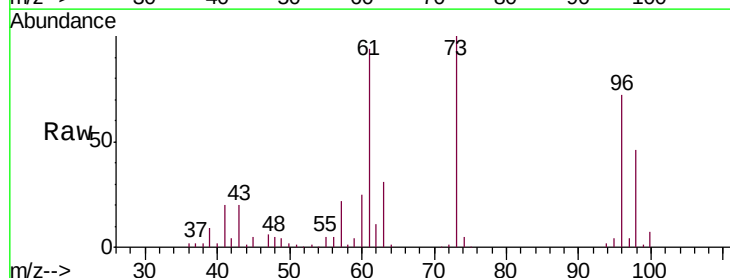
Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

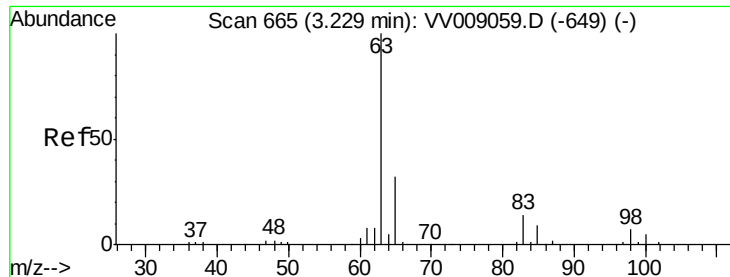
Tgt Ion: 73 Resp: 184333
Ion Ratio Lower Upper
73 100
43 19.7 14.9 22.3
57 21.1 16.0 24.0



#18
trans-1,2-Dichloroethene
Concen: 24.029 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV009076.D
Acq: 20 Dec 2018 03:42

Tgt Ion: 96 Resp: 77535
Ion Ratio Lower Upper
96 100
61 131.3 94.6 175.8
98 64.0 45.3 84.1

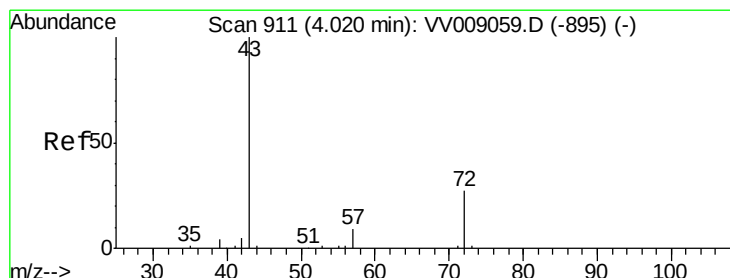
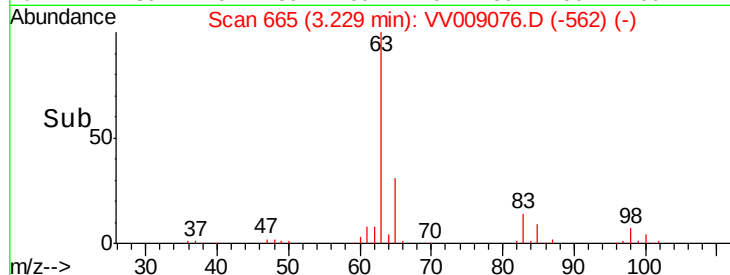
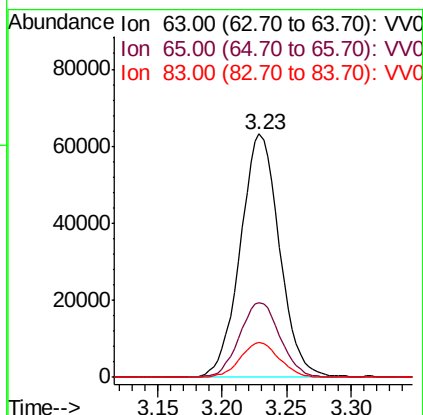
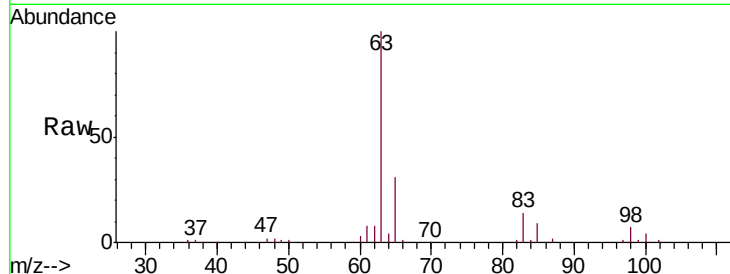




#19
 1,1-Dichloroethane
 Concen: 25.541 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

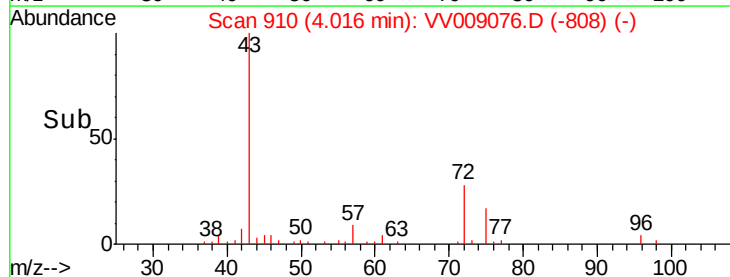
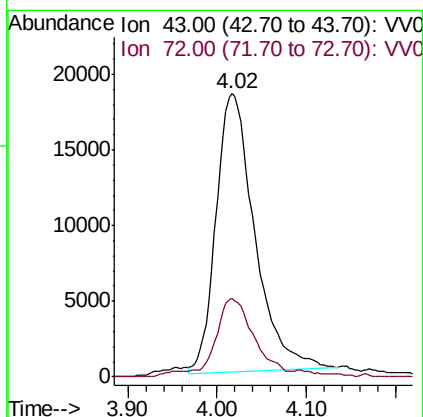
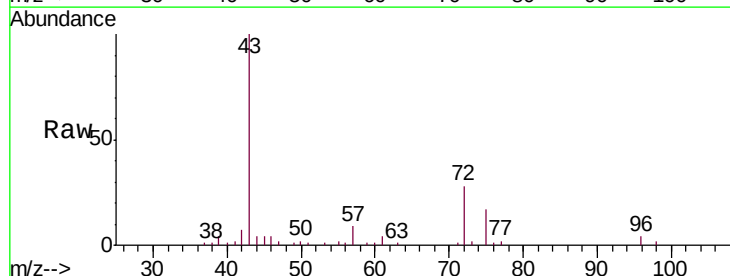
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

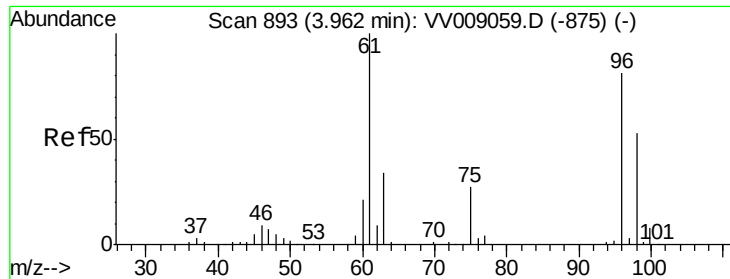
Tgt Ion: 63 Resp: 133600
 Ion Ratio Lower Upper
 63 100
 65 30.7 22.7 42.1
 83 14.2 10.2 19.0



#21
 2-Butanone
 Concen: 46.034 ug/L
 RT: 4.02 min Scan# 910
 Delta R.T. -0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

Tgt Ion: 43 Resp: 55480
 Ion Ratio Lower Upper
 43 100
 72 26.2 13.7 41.1



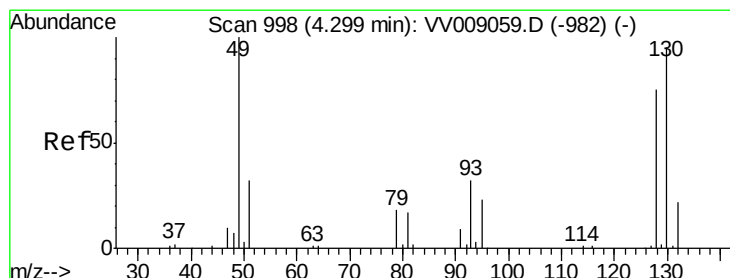
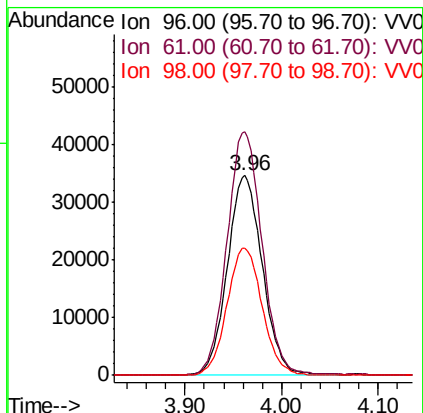
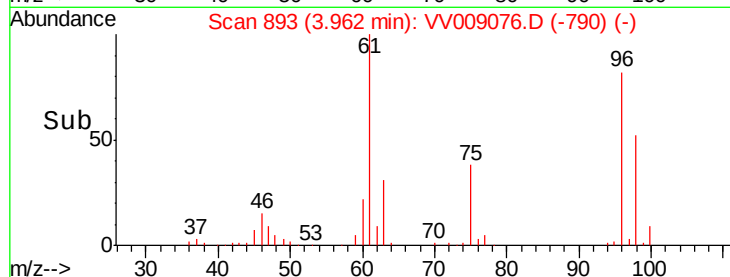
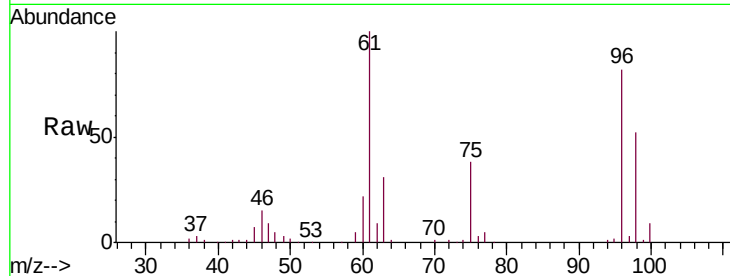


#22

cis-1,2-Dichloroethene
 Concen: 26.057 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02569

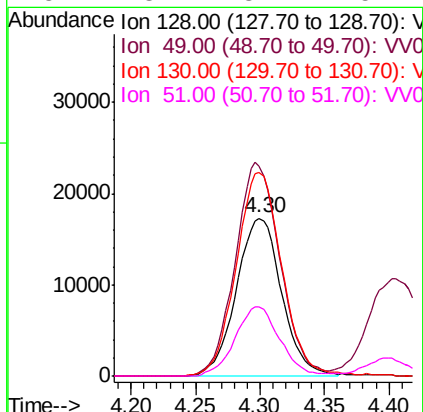
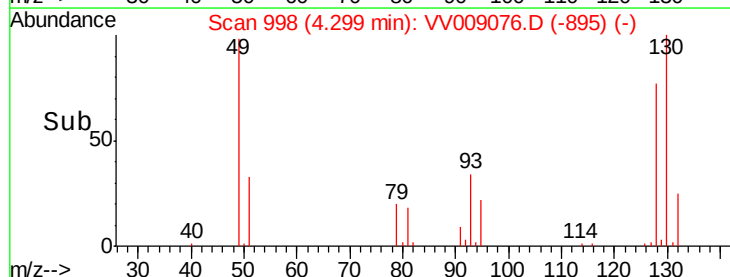
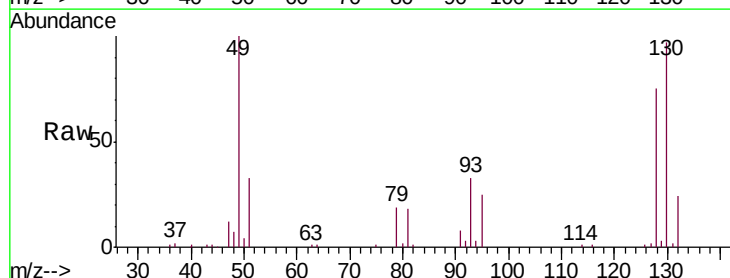
Tgt Ion: 96 Resp: 87668
 Ion Ratio Lower Upper
 96 100
 61 121.8 86.2 160.0
 98 63.7 45.6 84.6

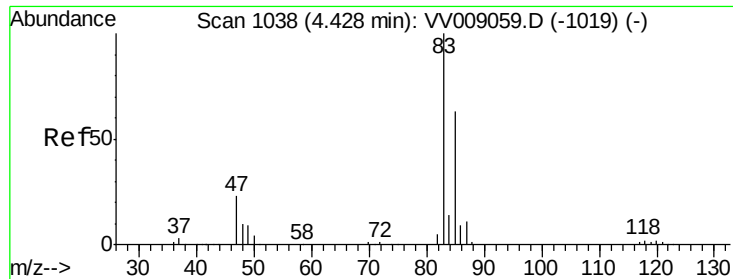


#23

Bromochloromethane
 Concen: 26.658 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

Tgt Ion: 128 Resp: 42273
 Ion Ratio Lower Upper
 128 100
 49 132.9 93.8 174.2
 130 129.1 90.4 168.0
 51 43.7 34.2 51.4

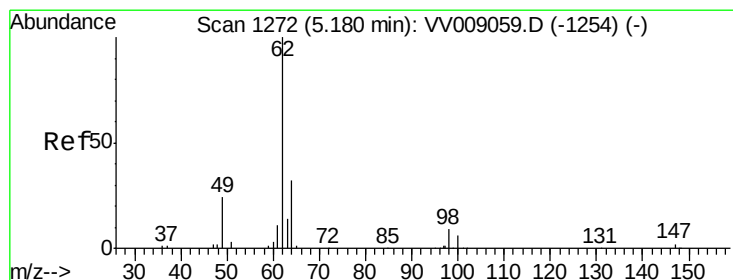
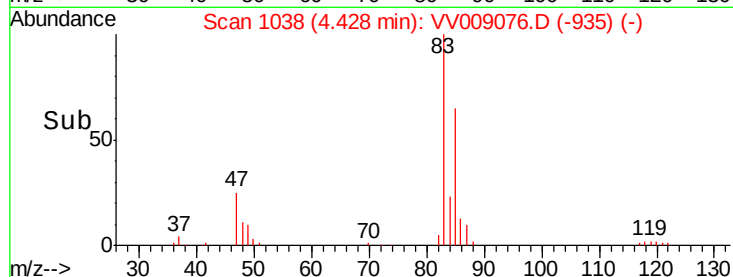
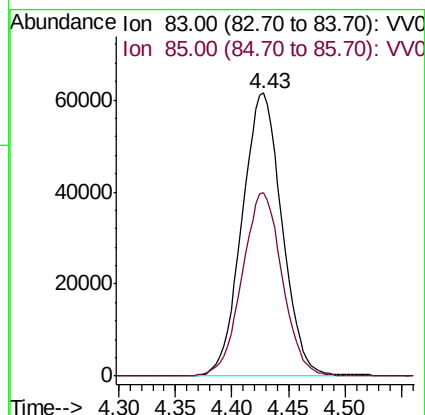
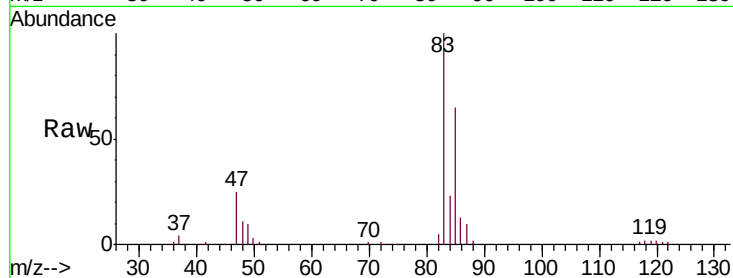




#25
Chloroform
Concen: 26.892 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV009076.D
Acq: 20 Dec 2018 03:42

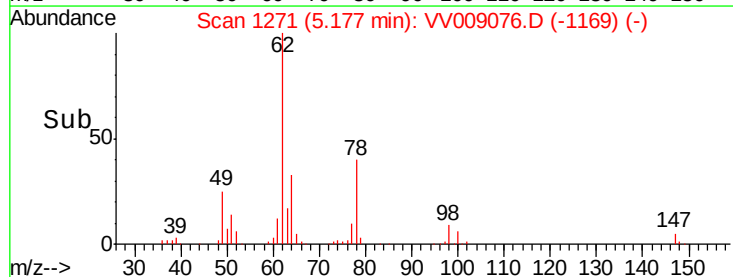
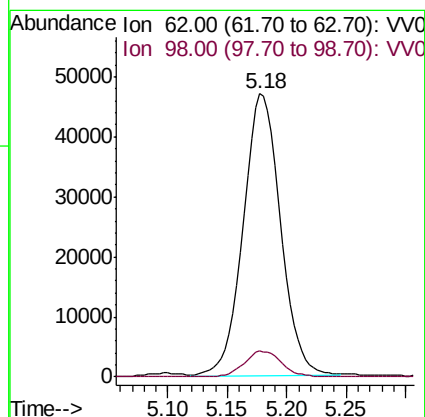
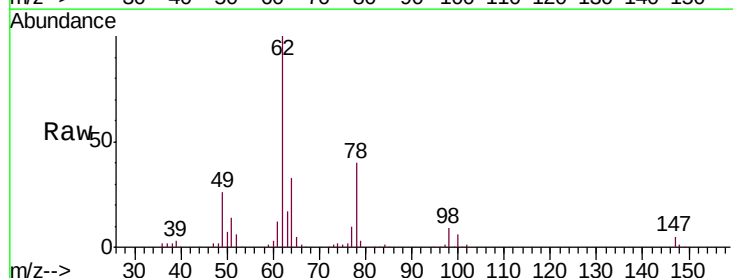
Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

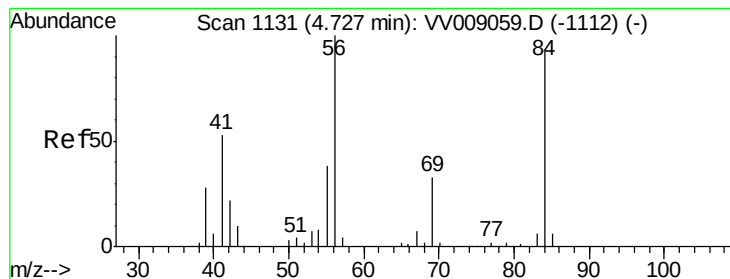
Tgt Ion: 83 Resp: 150969
Ion Ratio Lower Upper
83 100
85 65.1 45.6 84.8



#27
1,2-Dichloroethane
Concen: 26.680 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV009076.D
Acq: 20 Dec 2018 03:42

Tgt Ion: 62 Resp: 102028
Ion Ratio Lower Upper
62 100
98 9.1 7.4 11.0





#30

Cyclohexane

Concen: 21.028 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

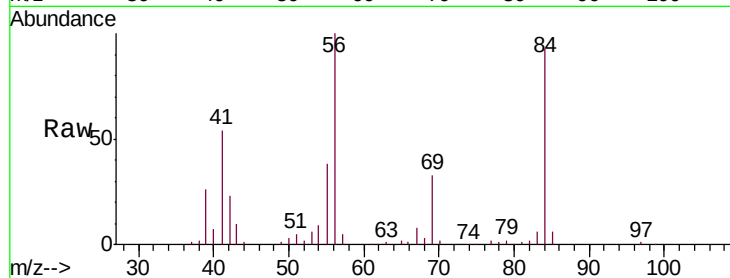
Tgt Ion: 56 Resp: 109002

Ion Ratio Lower Upper

56 100

69 32.8 25.8 38.8

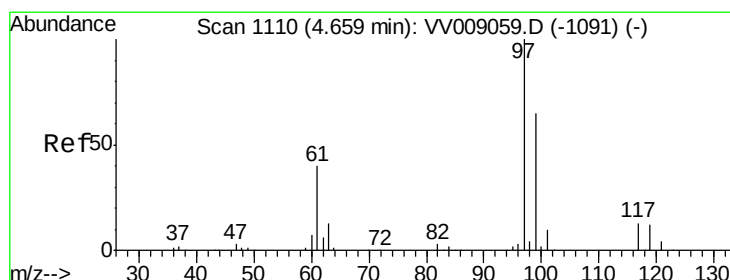
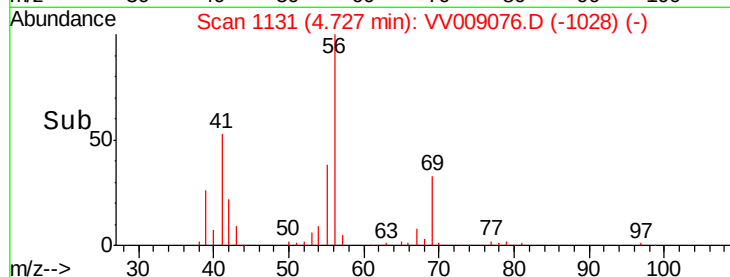
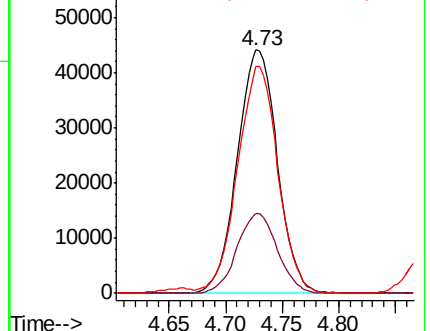
84 93.4 73.0 109.6



Abundance Ion 56.00 (55.70 to 56.70): VV009059.D (-1112) (-)

Ion 69.00 (68.70 to 69.70): VV009059.D (-1112) (-)

Ion 84.00 (83.70 to 84.70): VV009059.D (-1112) (-)



#31

1,1,1-Trichloroethane

Concen: 24.127 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

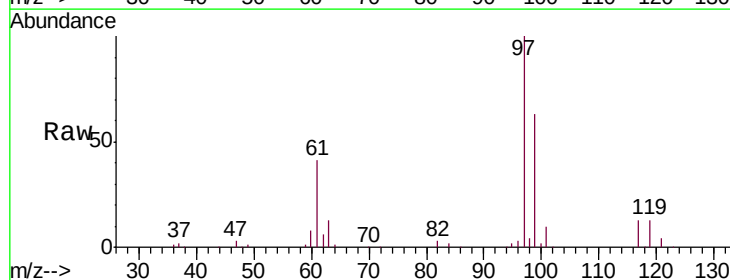
Tgt Ion: 97 Resp: 128053

Ion Ratio Lower Upper

97 100

99 64.5 51.9 77.9

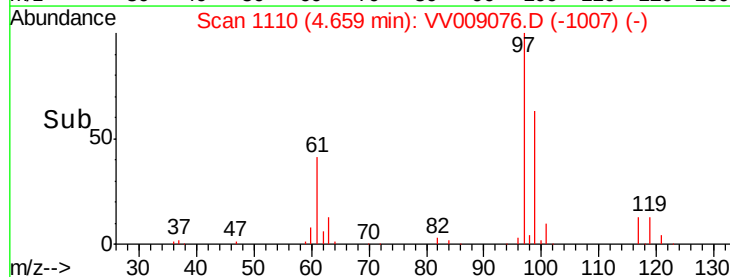
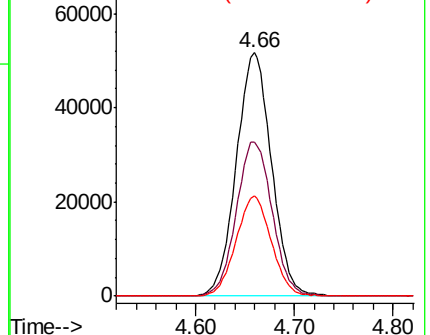
61 41.1 33.1 49.7

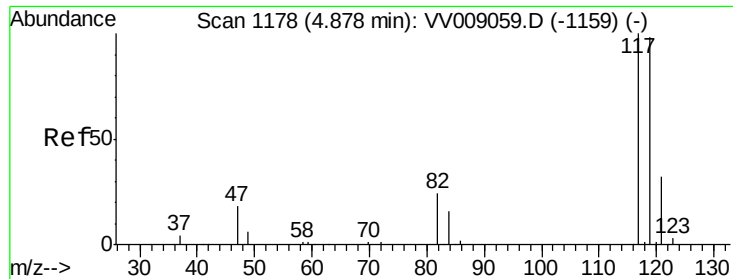


Abundance Ion 97.00 (96.70 to 97.70): VV009059.D (-1091) (-)

Ion 99.00 (98.70 to 99.70): VV009059.D (-1091) (-)

Ion 61.00 (60.70 to 61.70): VV009059.D (-1091) (-)





#32

Carbon tetrachloride

Concen: 23.468 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

Instrument :

MSVOA_V

ClientSampleId :

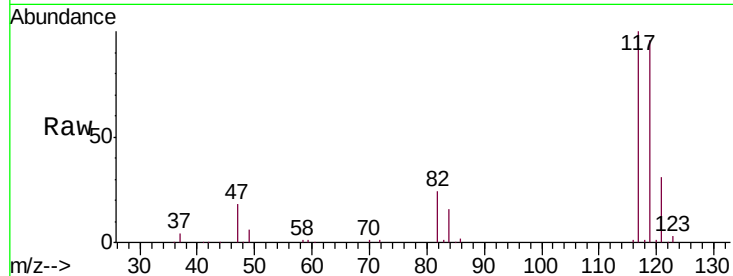
VSTD02569

Tgt Ion:117 Resp: 113714

Ion Ratio Lower Upper

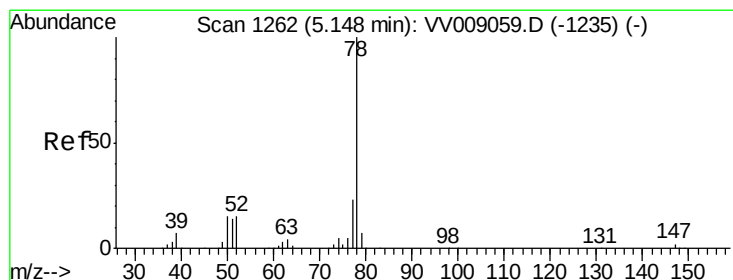
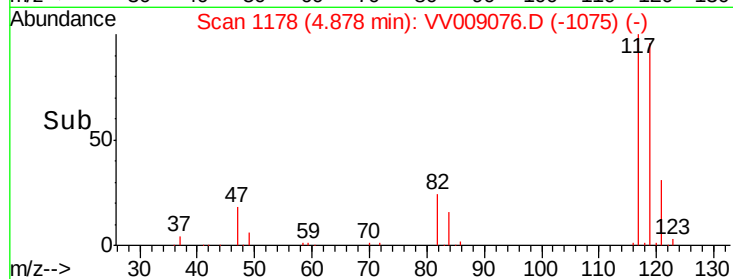
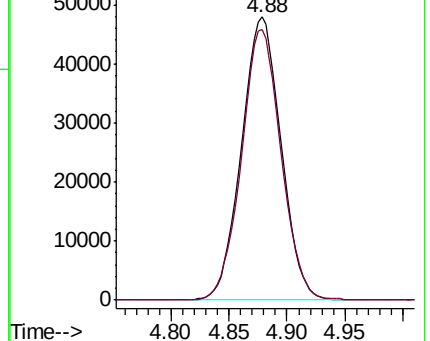
117 100

119 95.4 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.277 ug/L

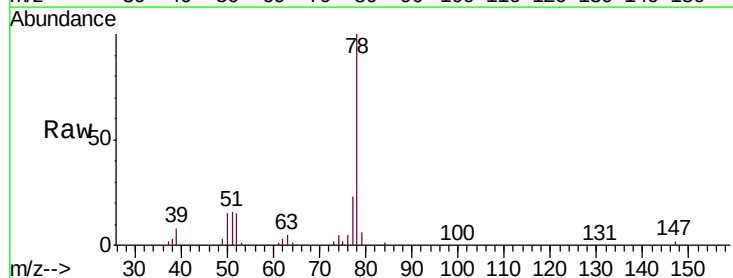
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

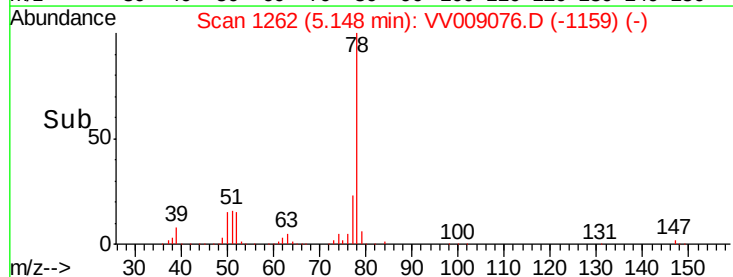
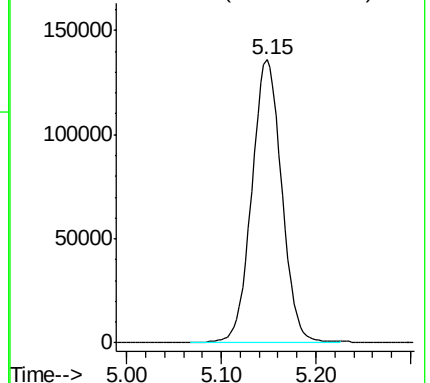
Lab File: VV009076.D

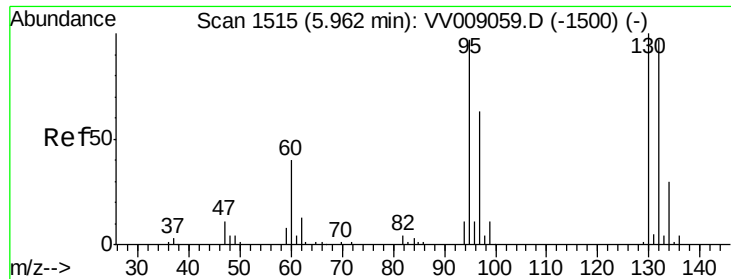
Acq: 20 Dec 2018 03:42

Tgt Ion: 78 Resp: 299414



Abundance Ion 78.00 (77.70 to 78.70): VV0

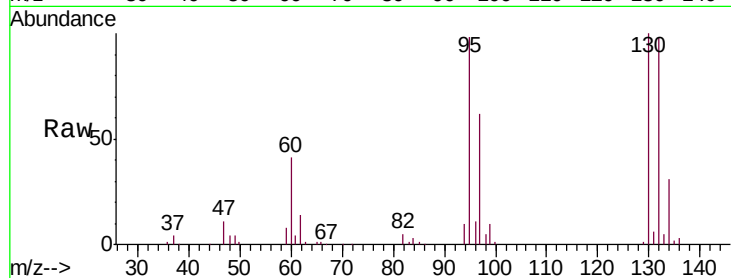




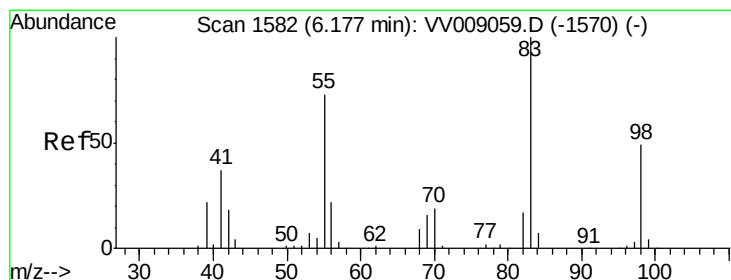
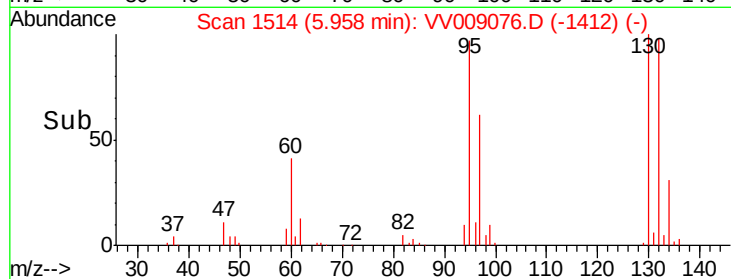
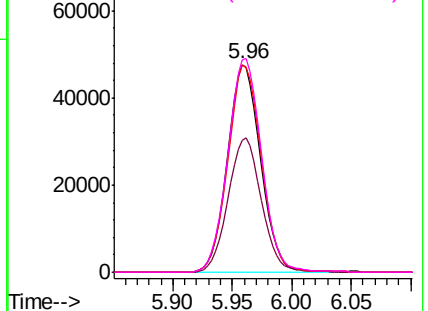
#35
 Trichloroethene
 Concen: 24.759 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. -0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

Tgt Ion: 95 Resp: 92061
 Ion Ratio Lower Upper
 95 100
 97 64.7 45.3 84.1
 132 100.4 70.0 130.0
 130 104.3 73.4 136.4

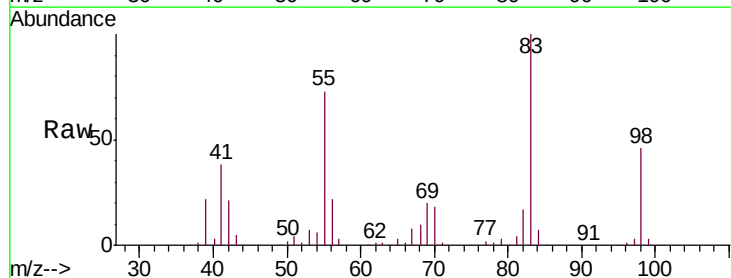


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

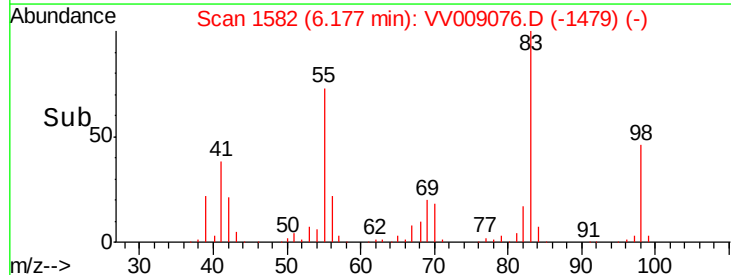
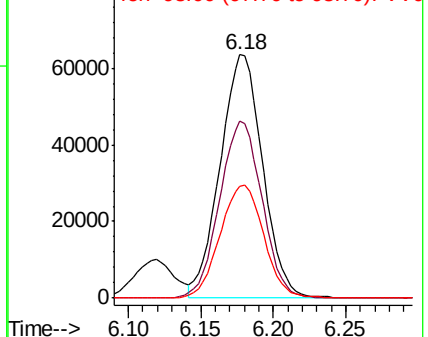


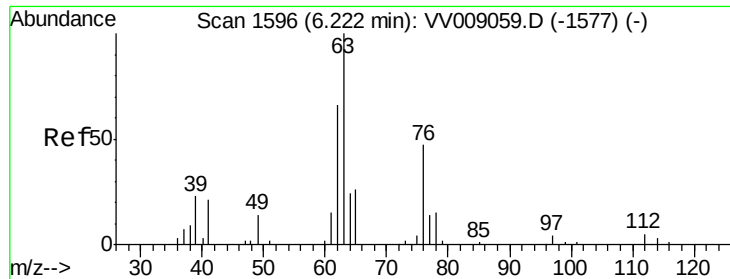
#36
 Methylcyclohexane
 Concen: 21.804 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

Tgt Ion: 83 Resp: 129301
 Ion Ratio Lower Upper
 83 100
 55 72.3 58.2 87.2
 98 47.6 37.8 56.8



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

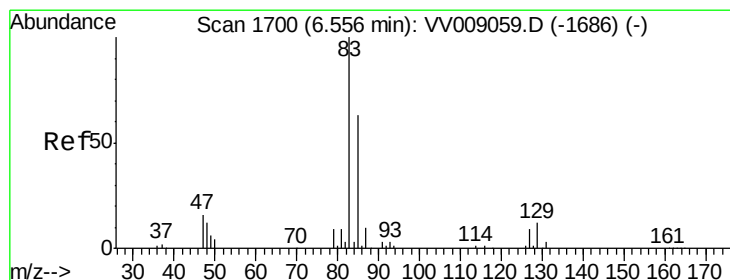
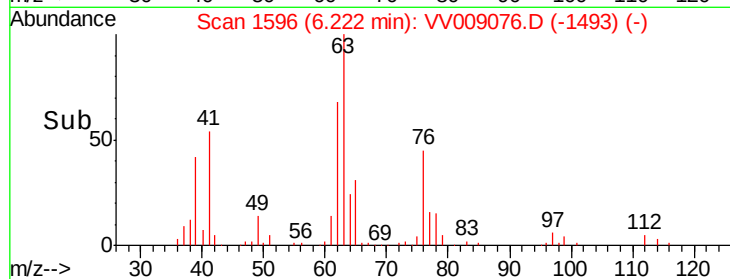
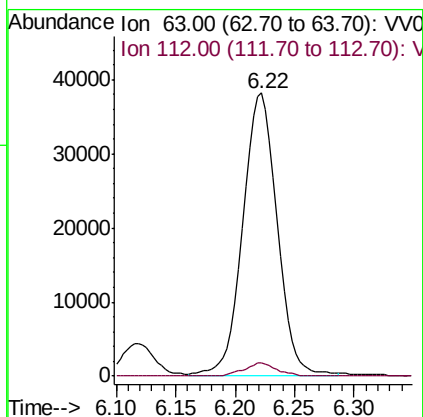
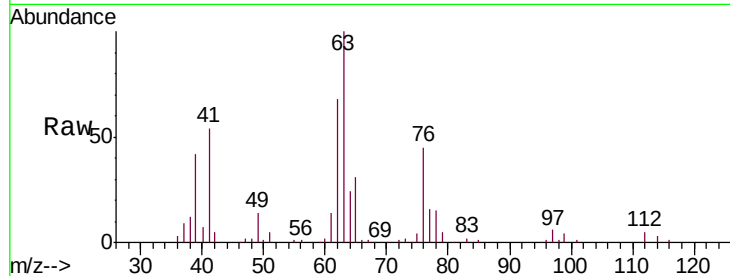




#40
 1,2-Dichloropropane
 Concen: 25.737 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

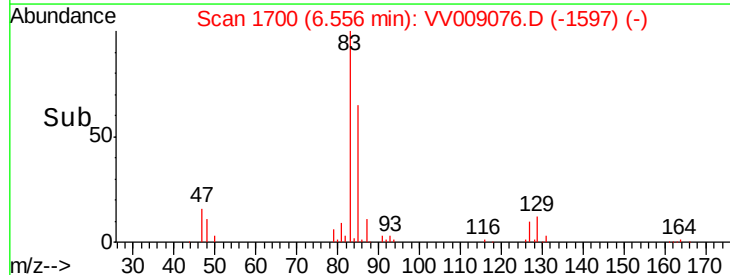
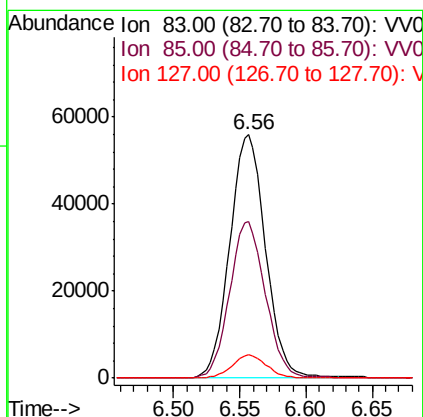
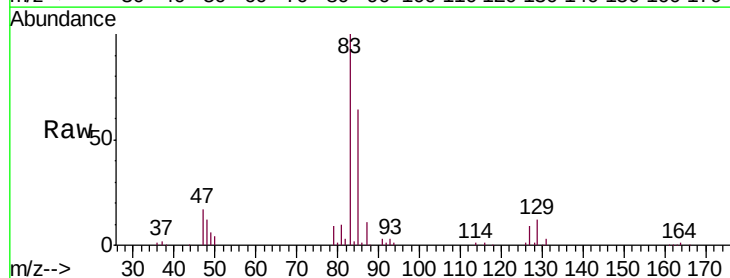
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

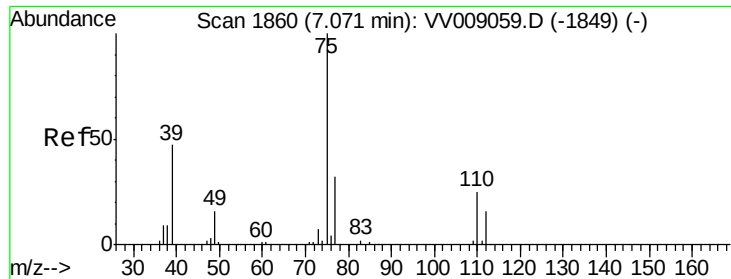
Tgt Ion: 63 Resp: 76181
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.8 5.8



#41
 Bromodichloromethane
 Concen: 26.868 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

Tgt Ion: 83 Resp: 104822
 Ion Ratio Lower Upper
 83 100
 85 64.3 45.3 84.1
 127 9.5 7.2 10.8



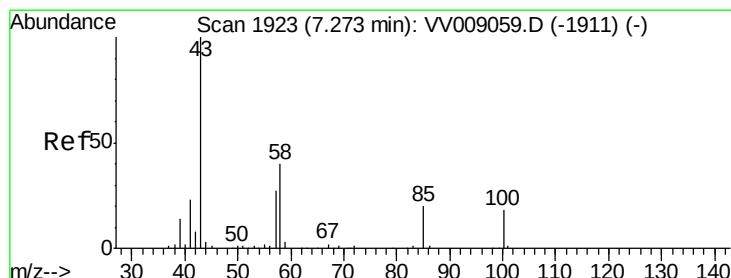
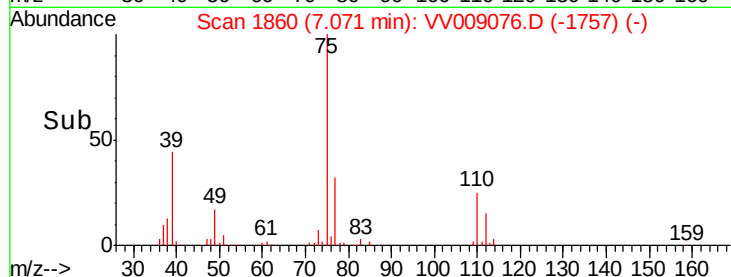
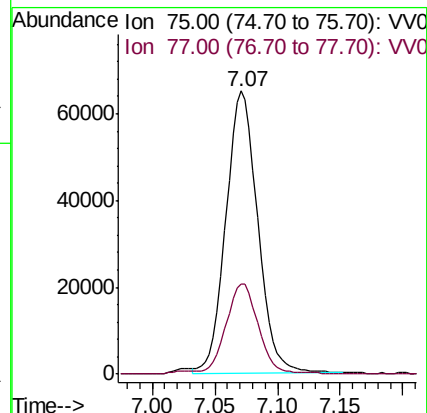
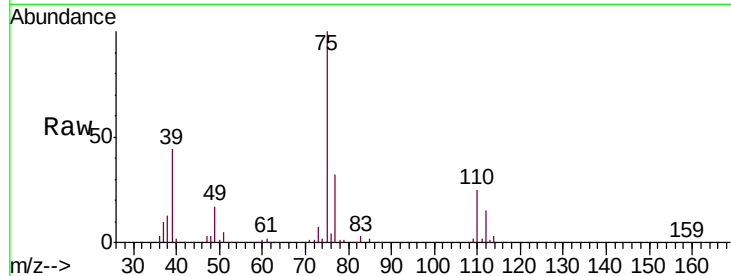


#42

cis-1,3-Dichloropropene
 Concen: 26.685 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

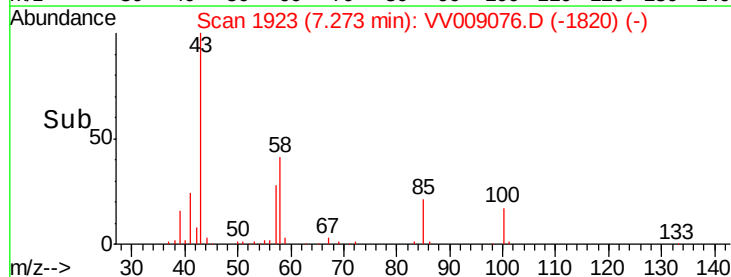
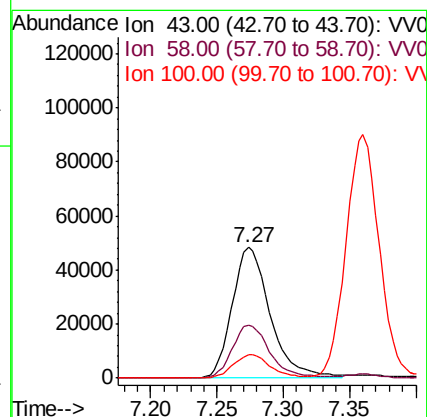
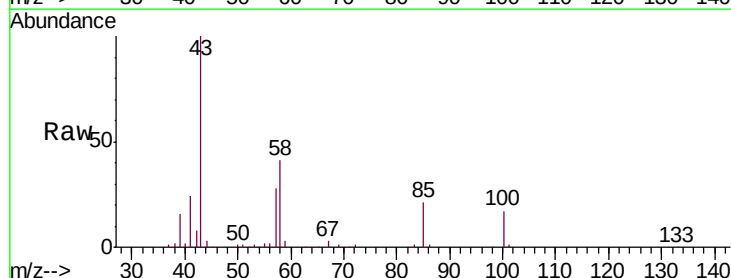
Tgt Ion: 75 Resp: 115645
 Ion Ratio Lower Upper
 75 100
 77 32.0 21.3 39.6

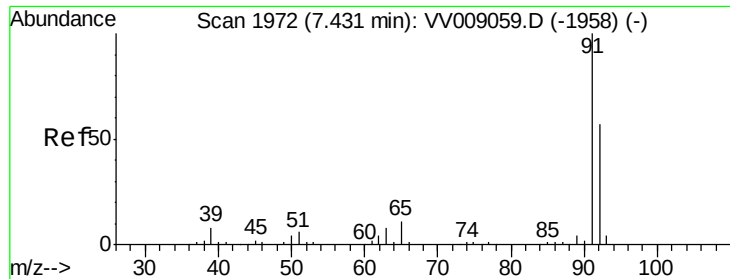


#43

4-Methyl-2-pentanone
 Concen: 48.347 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

Tgt Ion: 43 Resp: 96727
 Ion Ratio Lower Upper
 43 100
 58 40.2 32.2 48.4
 100 17.5 13.8 20.8





#44

Toluene

Concen: 24.809 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

Instrument :

MSVOA_V

ClientSampleId :

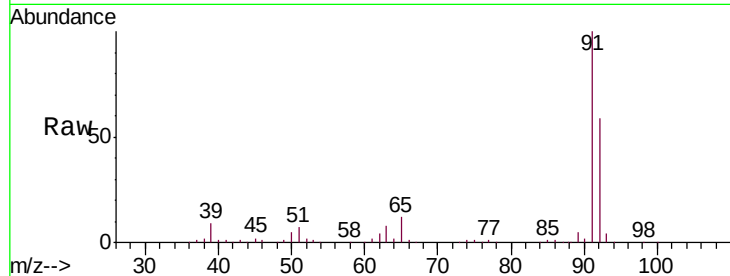
VSTD02569

Tgt Ion: 91 Resp: 320891

Ion Ratio Lower Upper

91 100

92 58.6 41.7 77.5



Abundance Ion 91.00 (90.70 to 91.70): VV009059.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV009059.D (-1958) (-)

7.43

200000

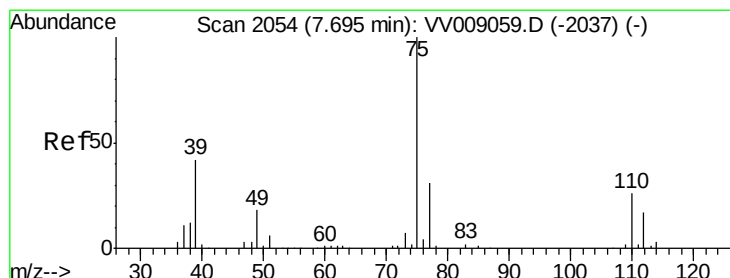
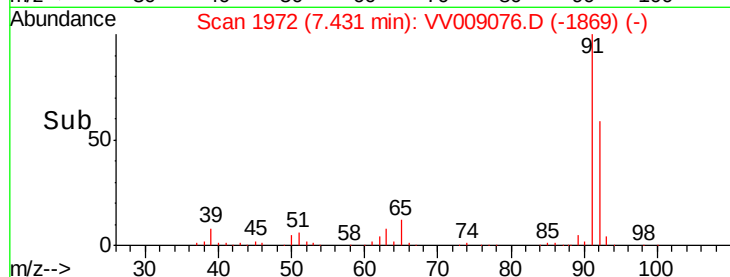
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 26.769 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV009076.D

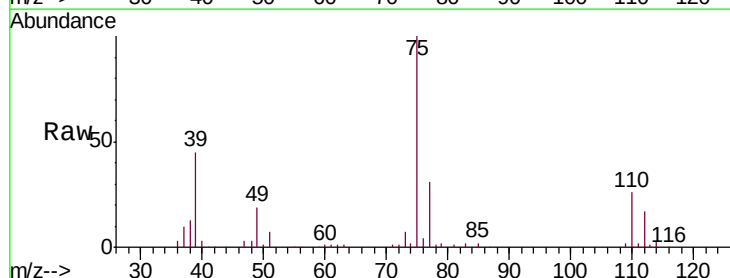
Acq: 20 Dec 2018 03:42

Tgt Ion: 75 Resp: 101127

Ion Ratio Lower Upper

75 100

77 30.9 23.6 43.8



Abundance Ion 75.00 (74.70 to 75.70): VV009059.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV009059.D (-2037) (-)

7.69

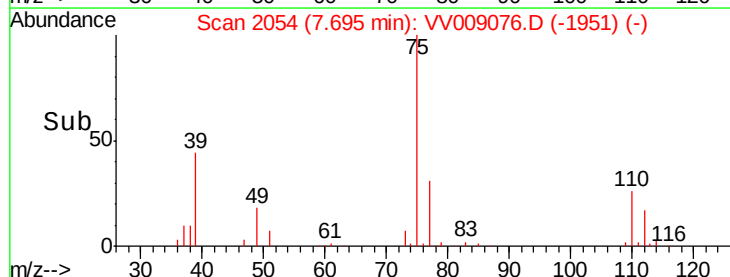
60000

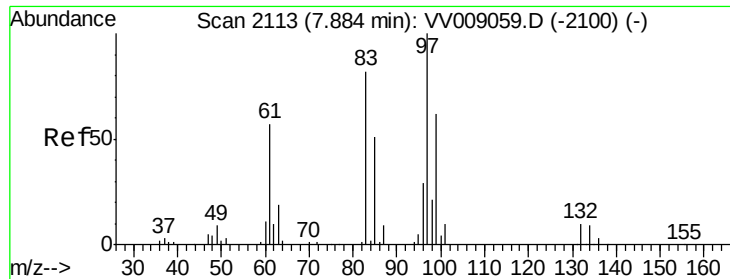
40000

20000

0

Time-->

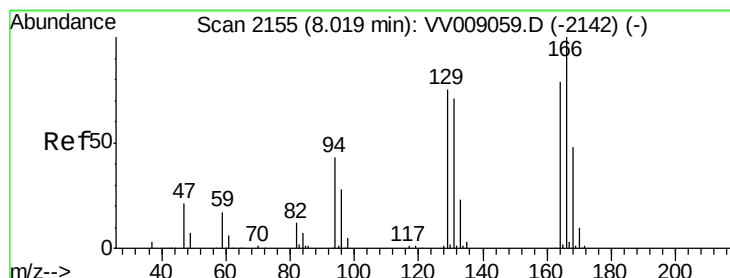
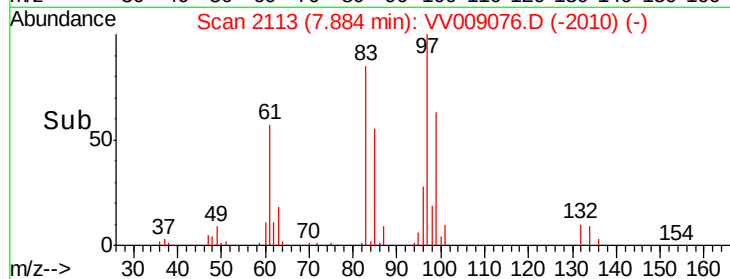
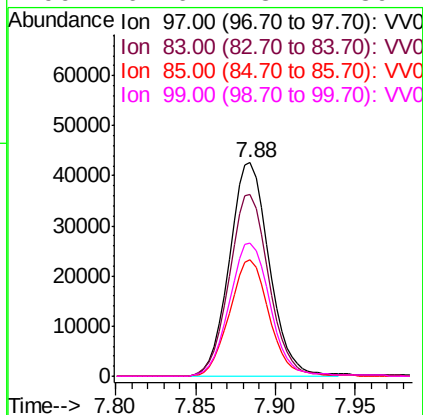
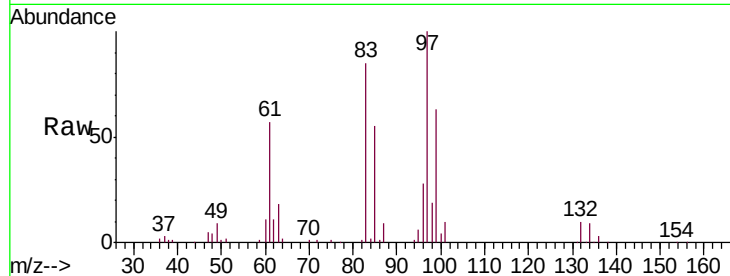




#46
 1,1,2-Trichloroethane
 Concen: 29.339 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

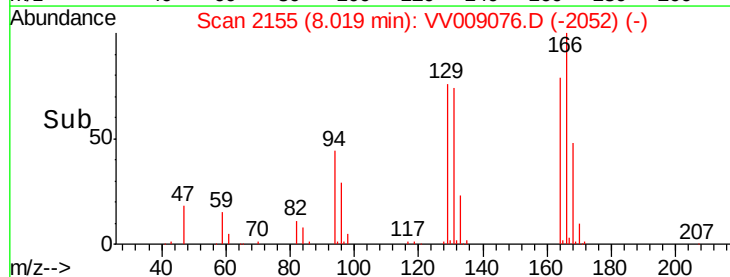
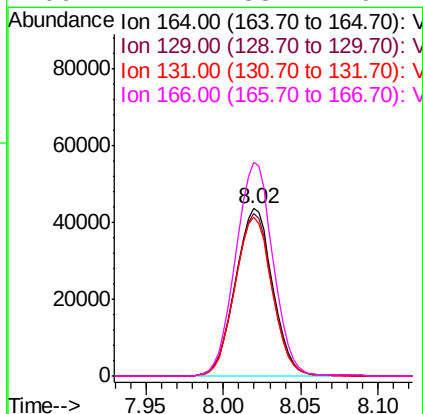
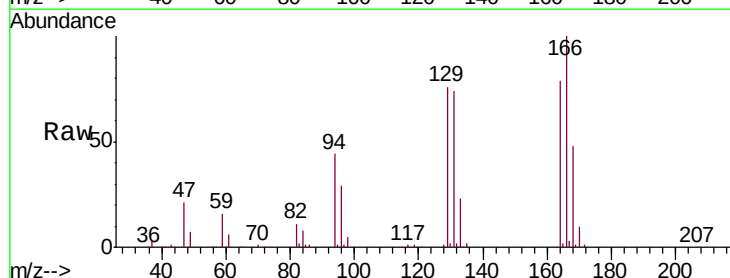
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

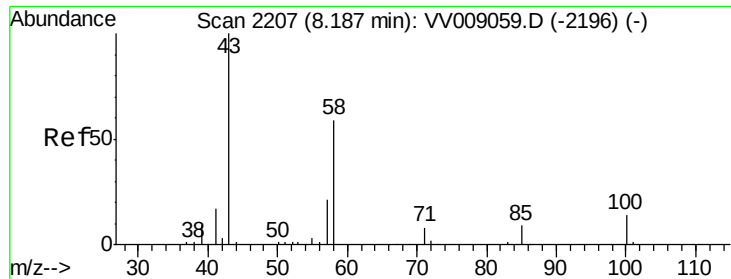
Tgt Ion:	97	Resp:	72361
Ion	Ratio	Lower	Upper
97	100		
83	85.1	56.6	105.2
85	54.7	36.6	68.0
99	62.6	43.2	80.2



#47
 Tetrachloroethene
 Concen: 24.116 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

Tgt Ion:	164	Resp:	72924
Ion	Ratio	Lower	Upper
164	100		
129	96.7	64.6	120.0
131	94.3	64.5	119.7
166	127.4	88.7	164.7

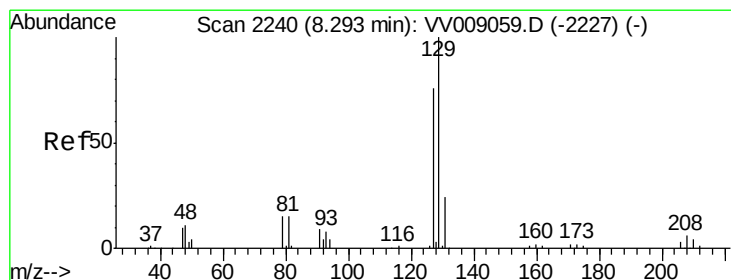
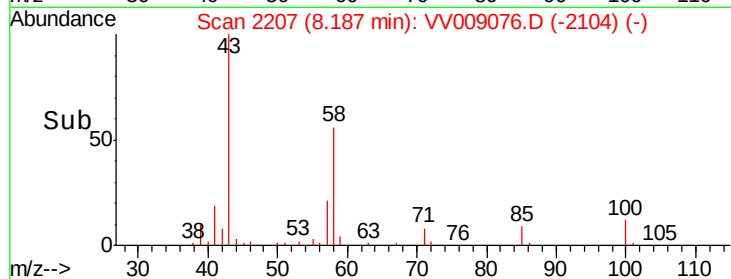
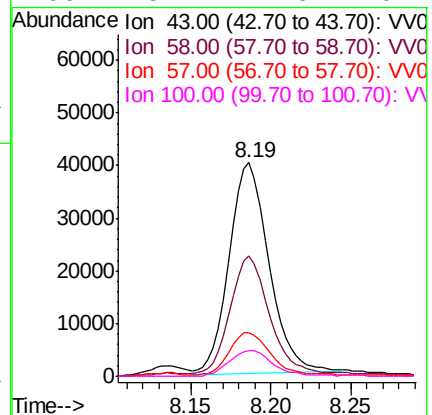
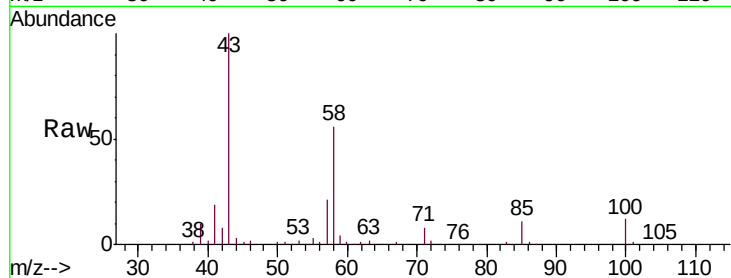




#49
2-Hexanone
Concen: 40.957 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV009076.D
Acq: 20 Dec 2018 03:42

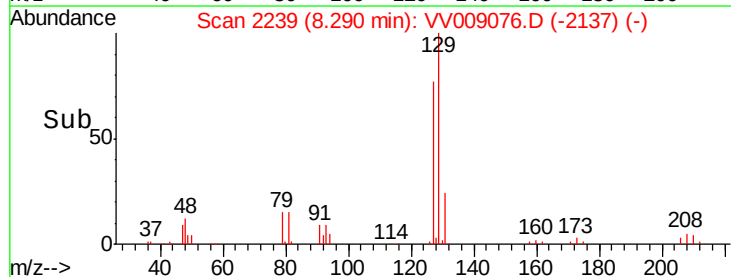
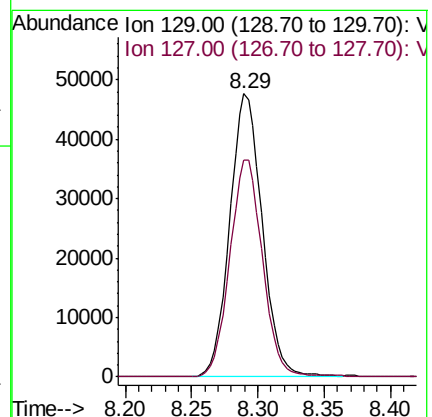
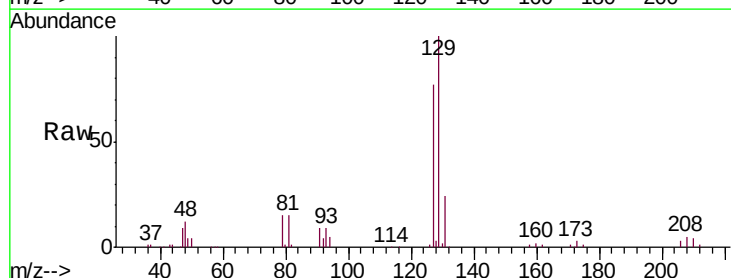
Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

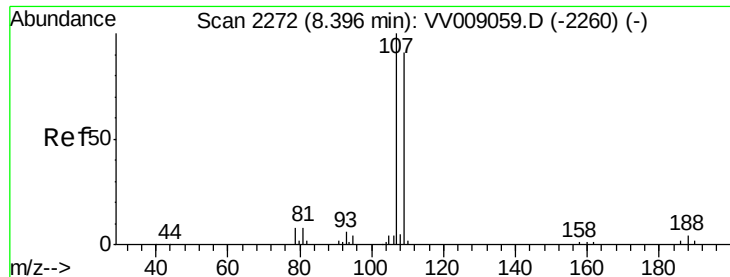
Tgt Ion: 43 Resp: 67792
Ion Ratio Lower Upper
43 100
58 55.3 43.9 65.9
57 20.1 15.7 23.5
100 13.4 11.0 16.4



#50
Dibromochloromethane
Concen: 28.712 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009076.D
Acq: 20 Dec 2018 03:42

Tgt Ion: 129 Resp: 81172
Ion Ratio Lower Upper
129 100
127 76.8 53.5 99.3

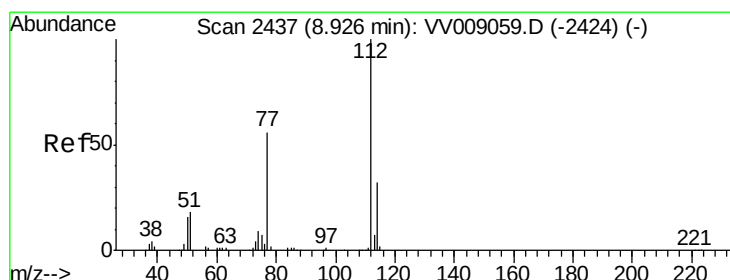
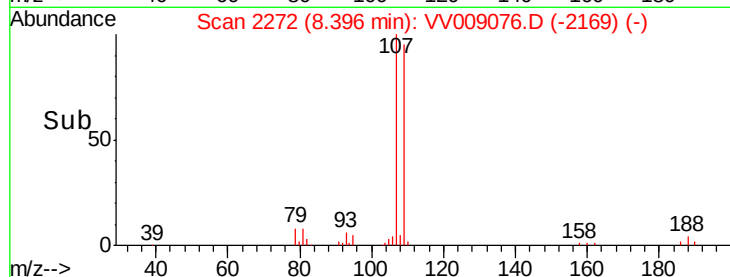
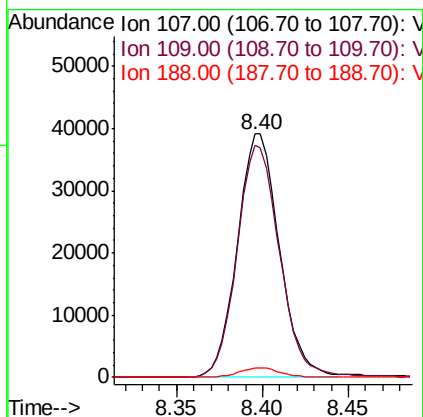
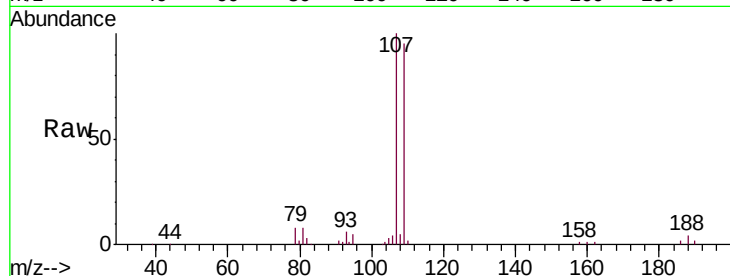




#51
 1,2-Dibromoethane
 Concen: 26.749 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

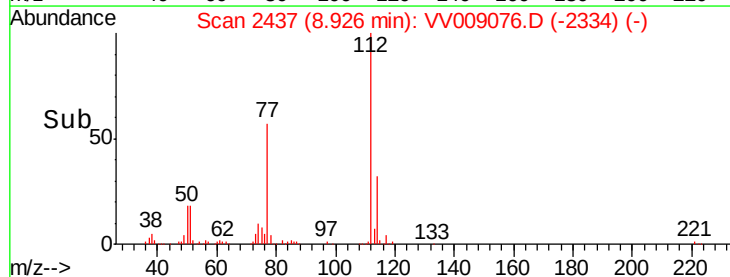
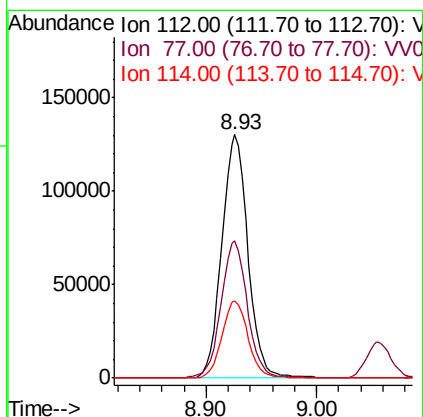
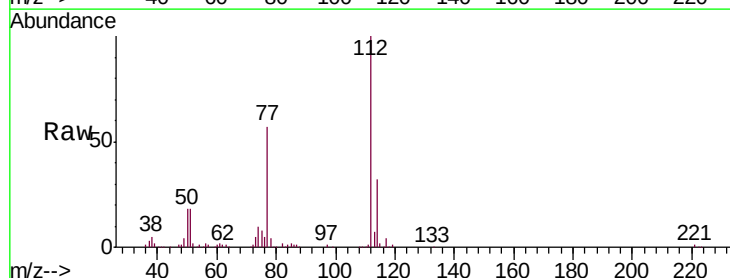
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

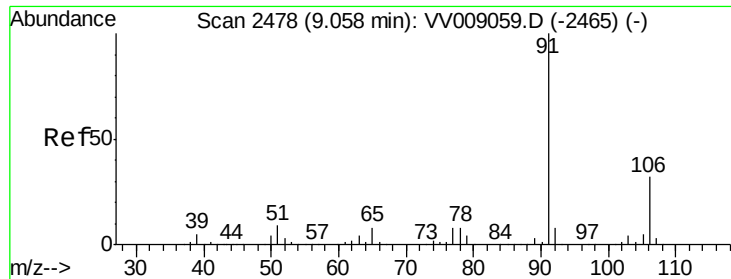
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.3	65.8	122.2
188	3.8	3.0	4.6



#52
 Chlorobenzene
 Concen: 25.333 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

Tgt Ion	Ratio	Lower	Upper
112	100		
77	56.6	44.6	66.8
114	31.8	22.6	42.0





#53

Ethylbenzene

Concen: 24.698 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

Instrument :

MSVOA_V

ClientSampleId :

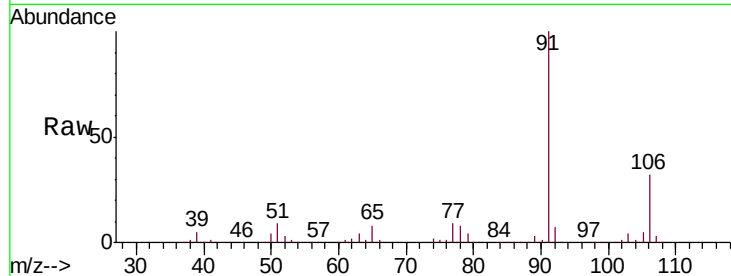
VSTD02569

Tgt Ion: 91 Resp: 346557

Ion Ratio Lower Upper

91 100

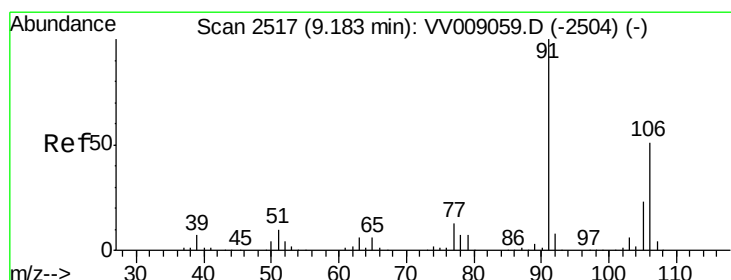
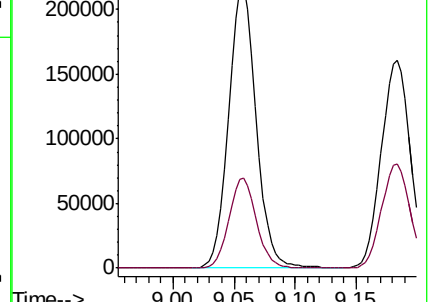
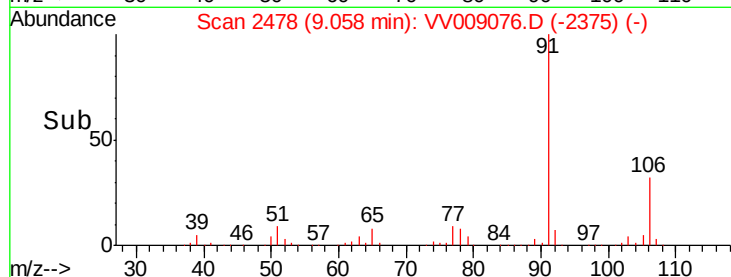
106 31.7 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VV009059.D (-2465) (-)

Ion 106.00 (105.70 to 106.70): VV009076.D (-2375) (-)

Time-->



#54

m,p-Xylene

Concen: 24.802 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV009076.D

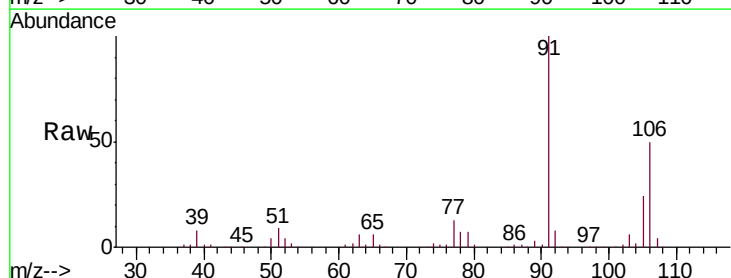
Acq: 20 Dec 2018 03:42

Tgt Ion: 106 Resp: 131775

Ion Ratio Lower Upper

106 100

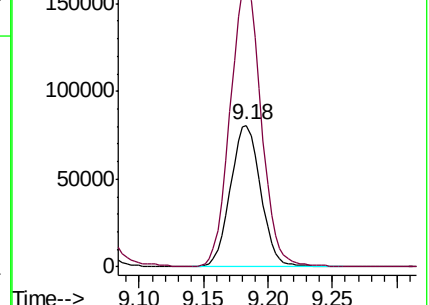
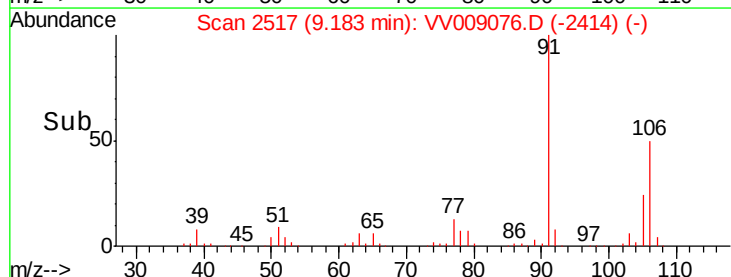
91 199.5 141.3 262.3

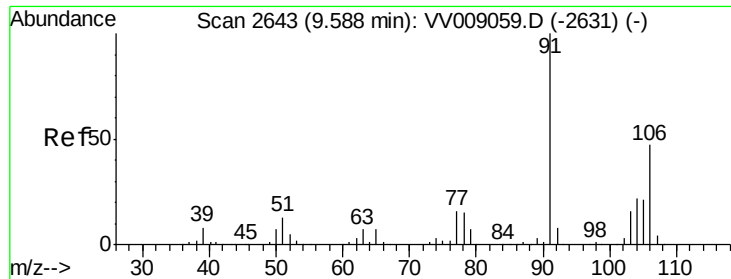


Abundance Ion 106.00 (105.70 to 106.70): VV009076.D (-2414) (-)

Ion 91.00 (90.70 to 91.70): VV009059.D (-2504) (-)

Time-->

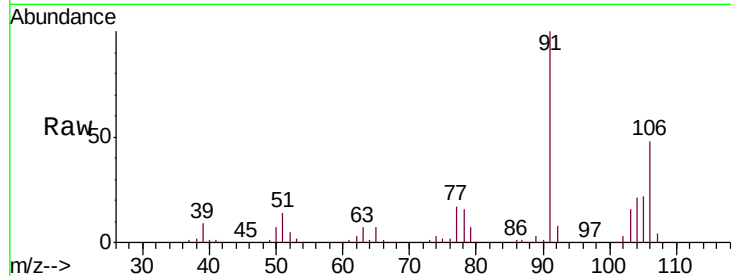




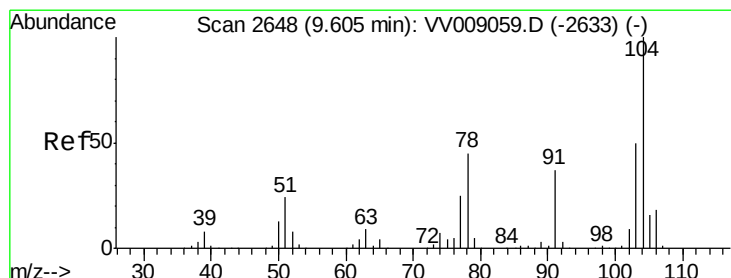
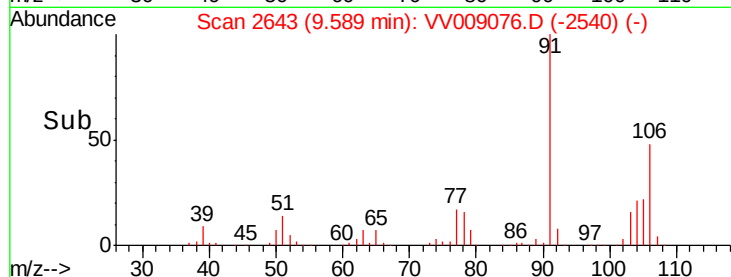
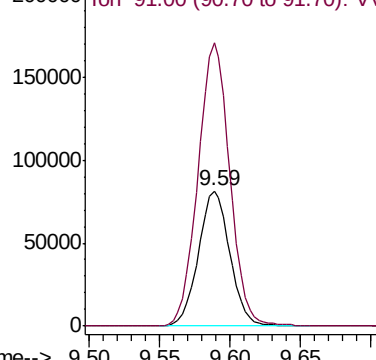
#55
o-xylene
Concen: 25.696 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV009076.D
Acq: 20 Dec 2018 03:42

Instrument :
MSVOA_V
ClientSampleId :
VSTD02569

Tgt Ion:106 Resp: 126845
Ion Ratio Lower Upper
106 100
91 209.2 148.3 275.5

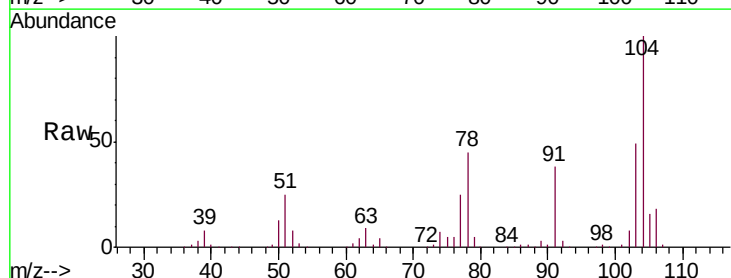


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

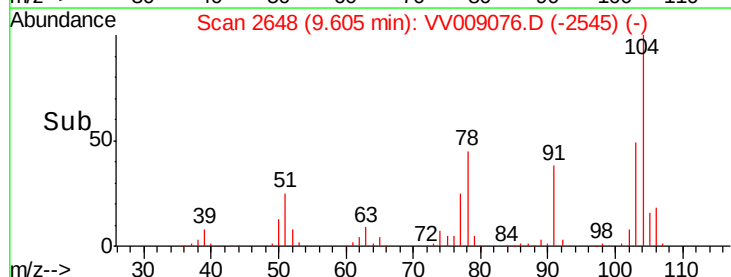
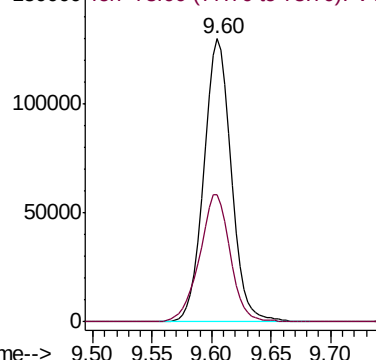


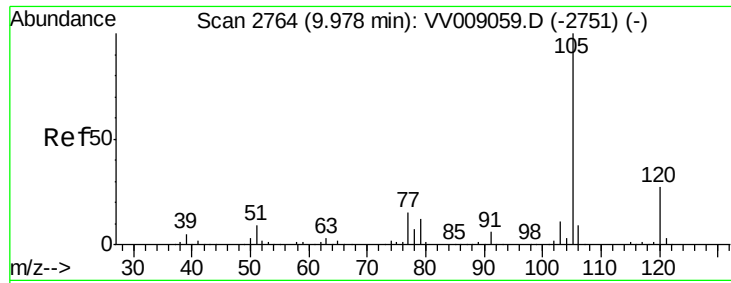
#56
Styrene
Concen: 26.112 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV009076.D
Acq: 20 Dec 2018 03:42

Tgt Ion:104 Resp: 207938
Ion Ratio Lower Upper
104 100
78 45.1 30.6 56.8



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





#57

Isopropylbenzene

Concen: 24.529 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

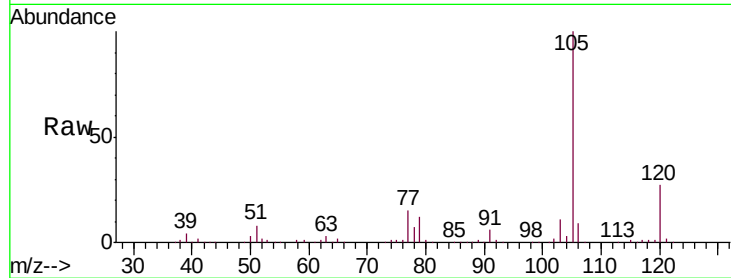
Tgt Ion: 105 Resp: 329091

Ion Ratio Lower Upper

105 100

120 26.7 21.7 32.5

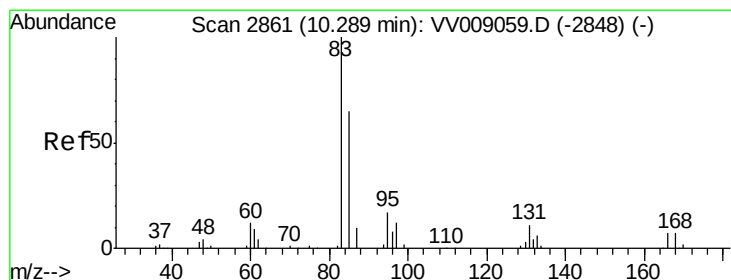
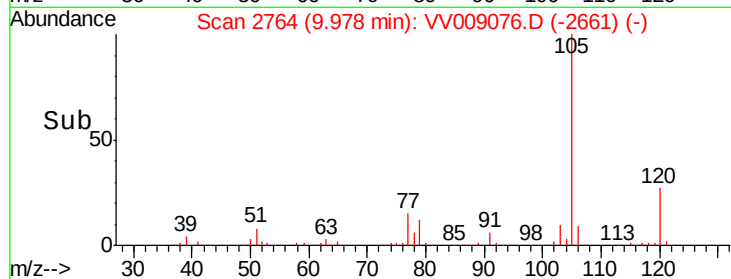
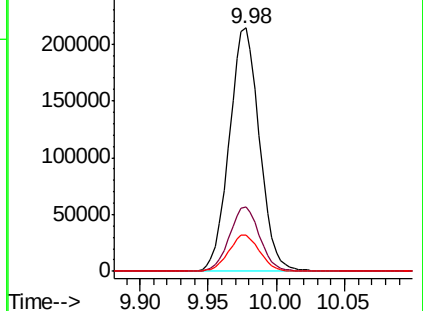
77 15.4 12.4 18.6



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: 26.222 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

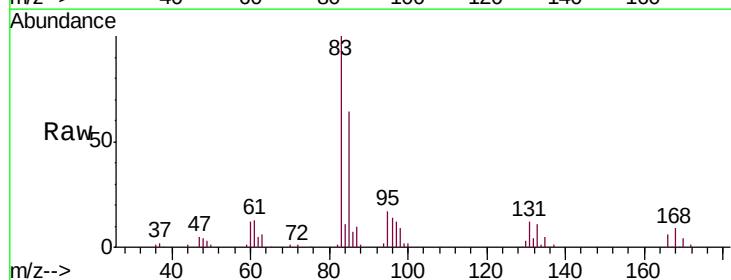
Tgt Ion: 83 Resp: 69916

Ion Ratio Lower Upper

83 100

85 64.5 44.3 82.3

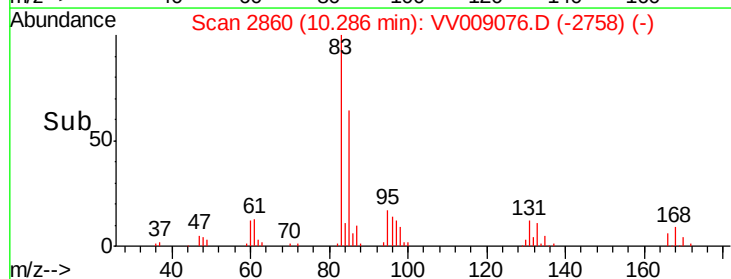
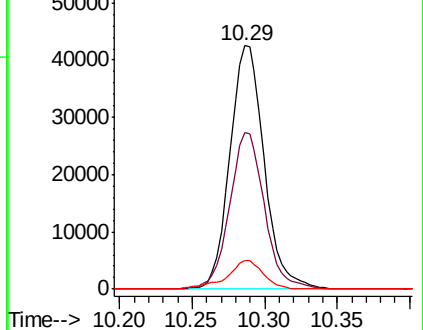
131 11.9 7.8 11.8#

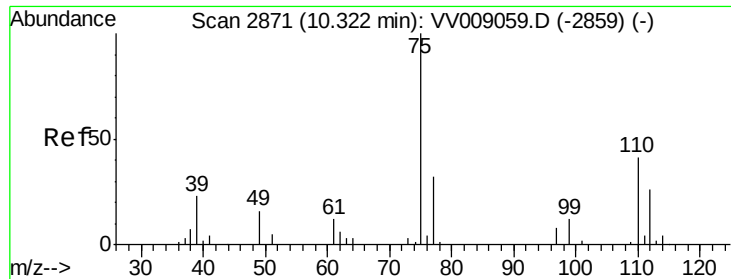


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

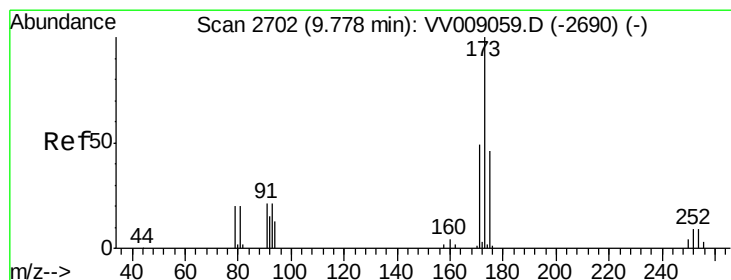
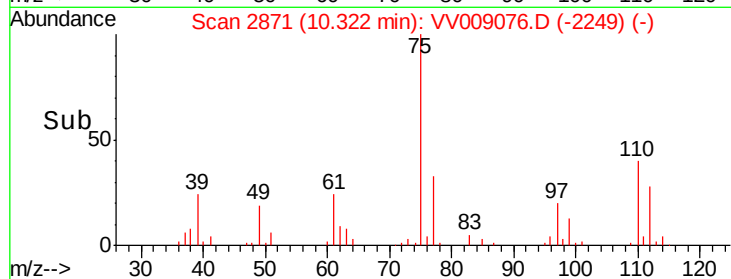
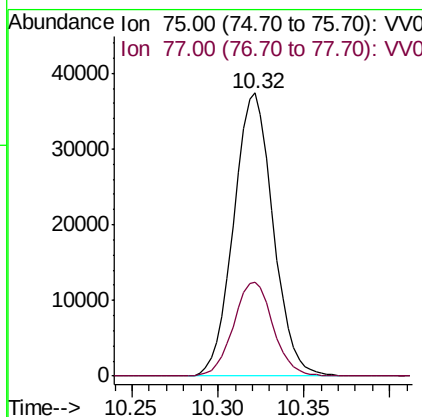
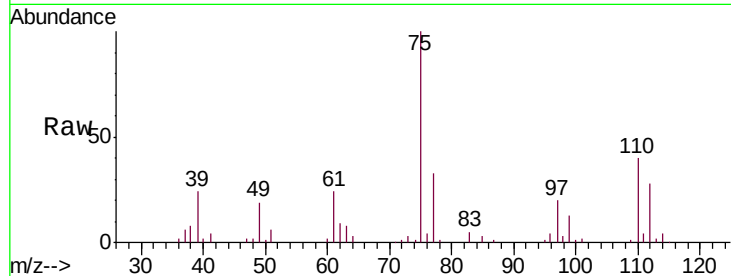




#59
 1,2,3-Trichloropropane
 Concen: 25.882 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

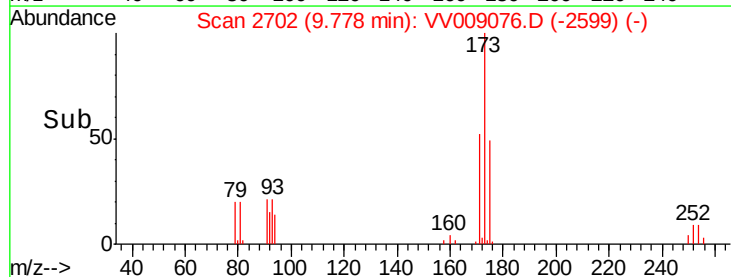
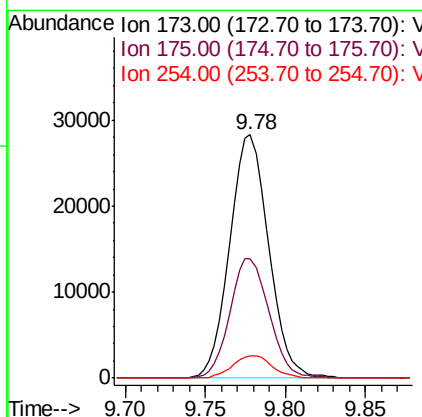
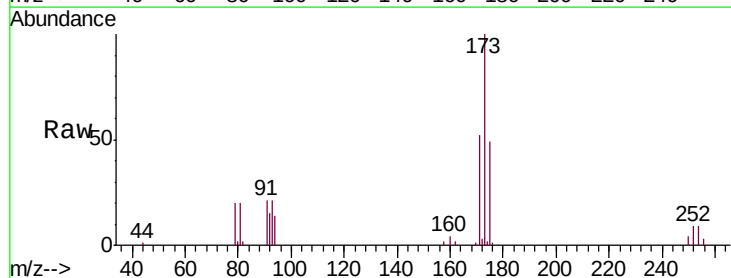
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

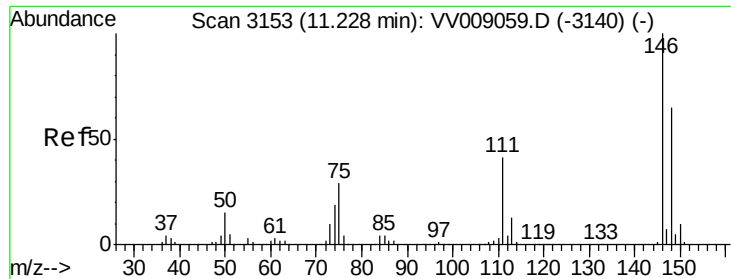
Tgt Ion: 75 Resp: 59711
 Ion Ratio Lower Upper
 75 100
 77 33.2 25.6 38.4



#62
 Bromoform
 Concen: 28.821 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

Tgt Ion: 173 Resp: 46984
 Ion Ratio Lower Upper
 173 100
 175 49.2 37.7 56.5
 254 9.1 7.1 10.7

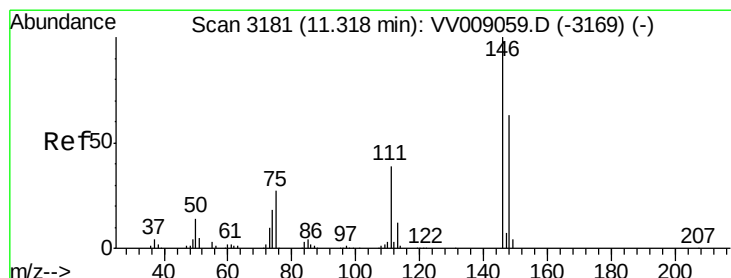
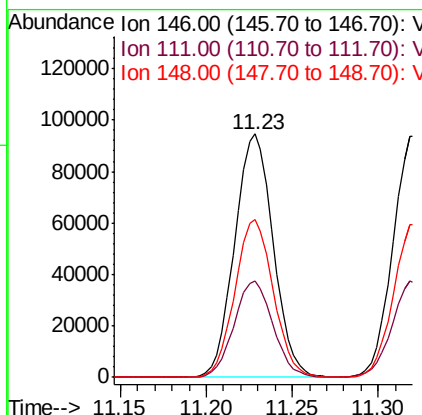
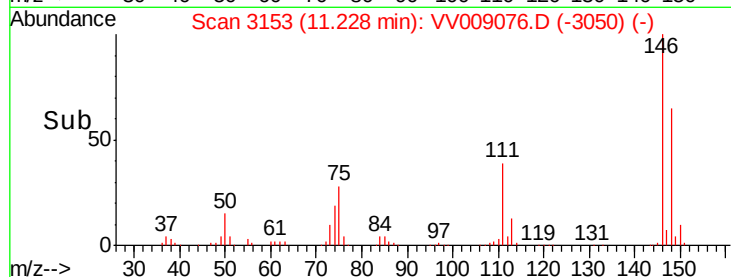
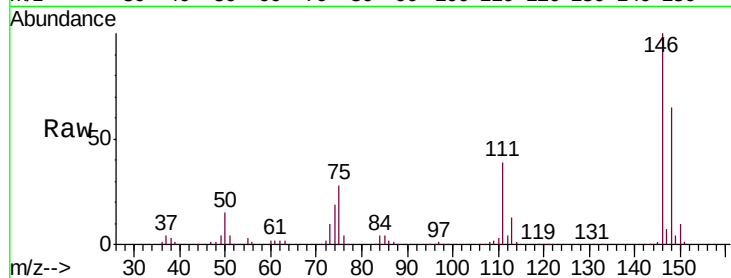




#63
 1,3-Dichlorobenzene
 Concen: 25.319 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

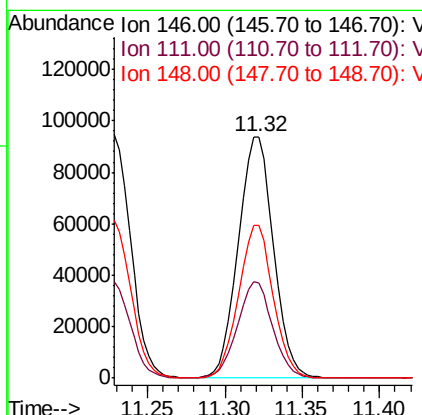
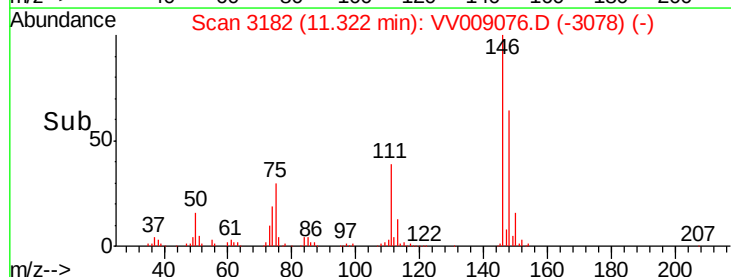
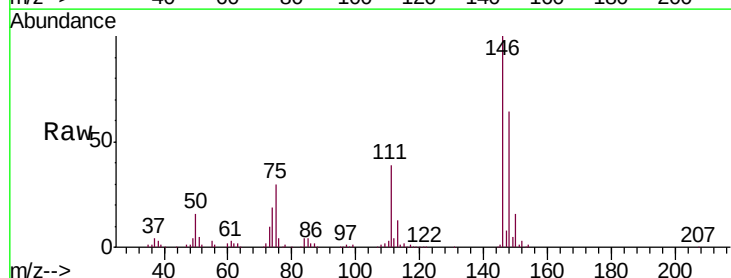
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

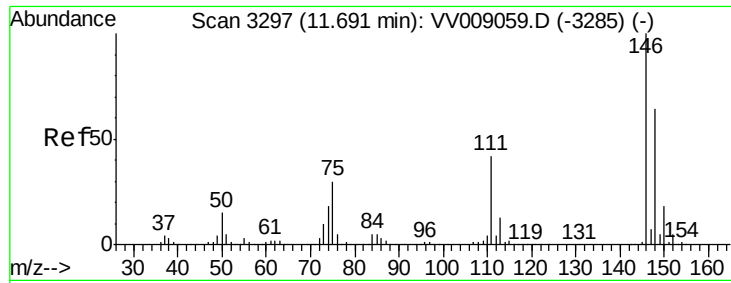
Tgt Ion:146 Resp: 147304
 Ion Ratio Lower Upper
 146 100
 111 39.5 27.5 51.1
 148 64.7 44.0 81.8



#64
 1,4-Dichlorobenzene
 Concen: 24.849 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

Tgt Ion:146 Resp: 148770
 Ion Ratio Lower Upper
 146 100
 111 39.2 26.8 49.8
 148 63.5 45.8 85.0





#65

1,2-Dichlorobenzene

Concen: 25.592 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

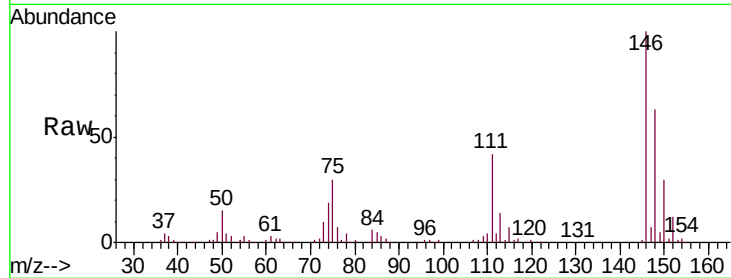
Tgt Ion: 146 Resp: 137265

Ion Ratio Lower Upper

146 100

111 42.3 34.2 51.4

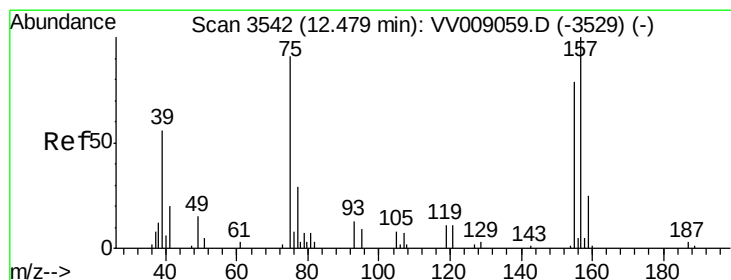
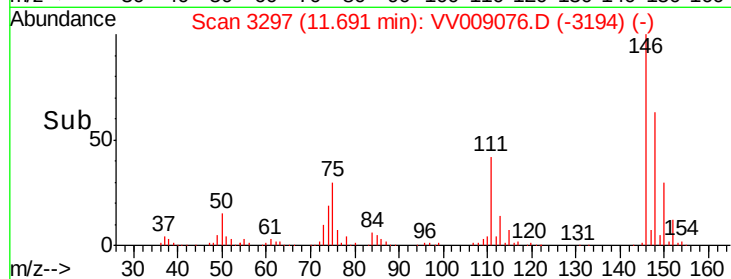
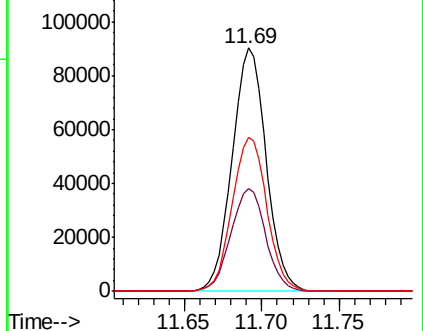
148 63.3 51.0 76.6



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: 30.533 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

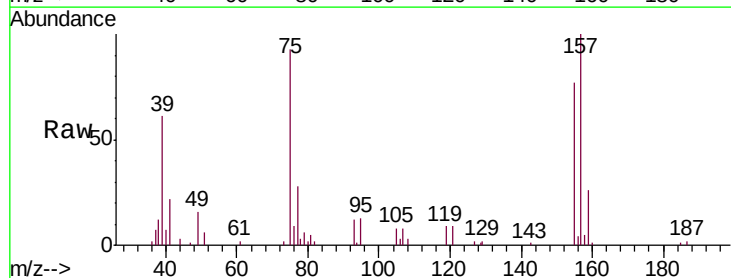
Tgt Ion: 75 Resp: 13417

Ion Ratio Lower Upper

75 100

157 107.7 95.8 143.6

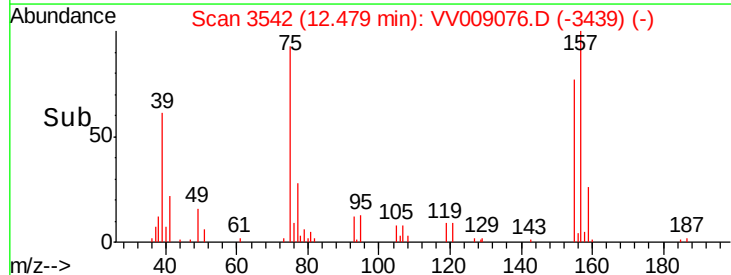
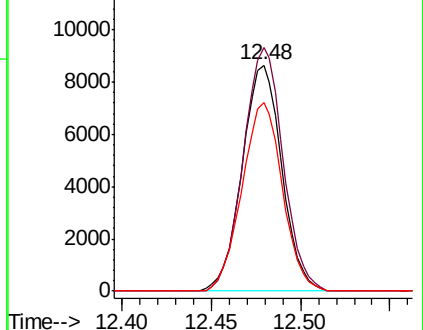
155 83.1 71.4 107.2

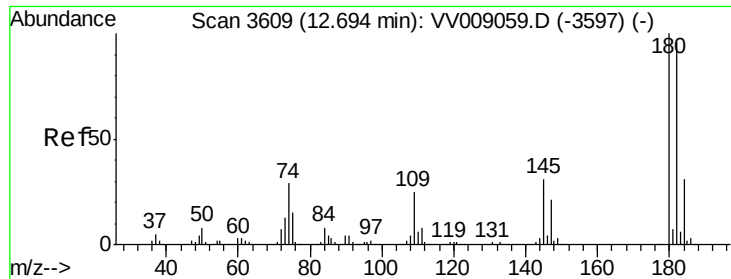


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

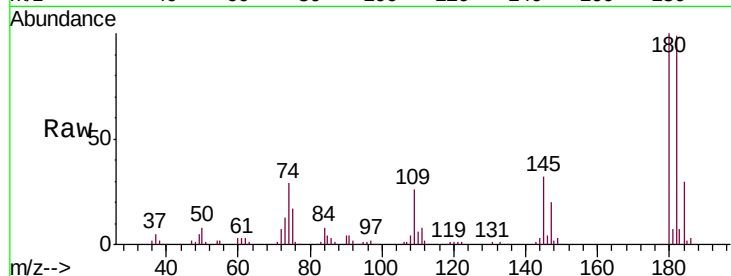




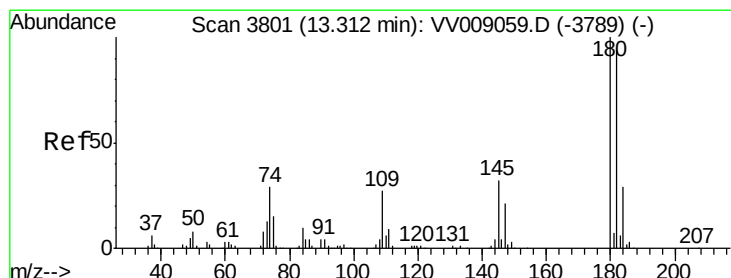
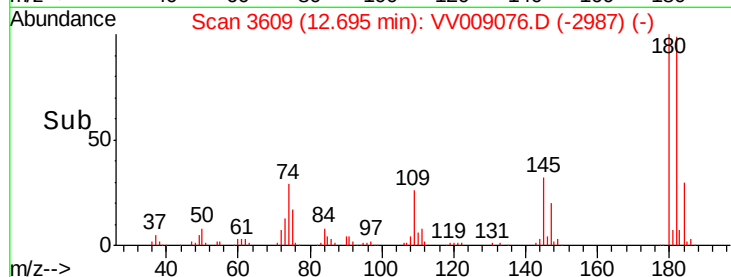
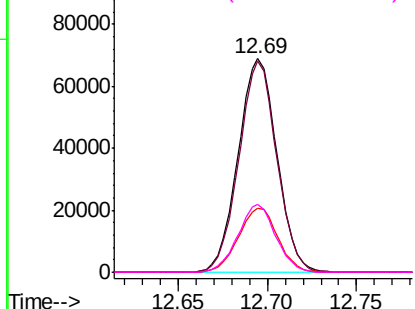
#67
 1,3,5-Trichlorobenzene
 Concen: 24.979 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02569

Tgt Ion:180 Resp: 104970
 Ion Ratio Lower Upper
 180 100
 182 96.1 75.9 113.9
 184 30.2 23.8 35.6
 145 30.8 24.2 36.4

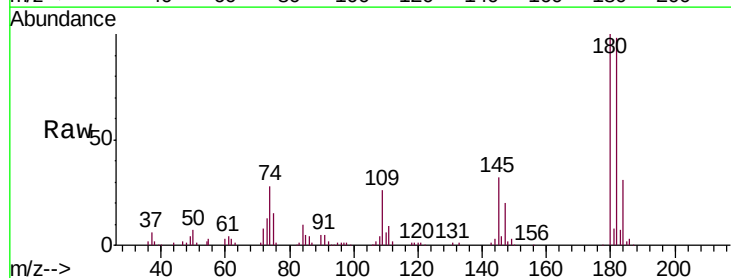


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

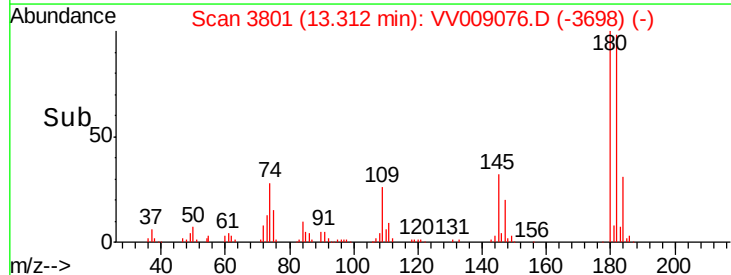
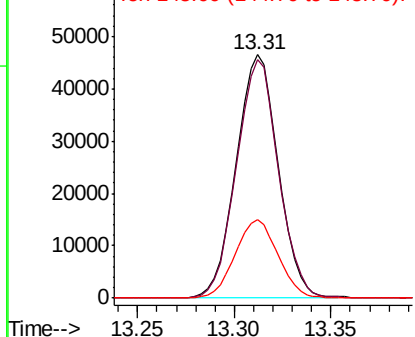


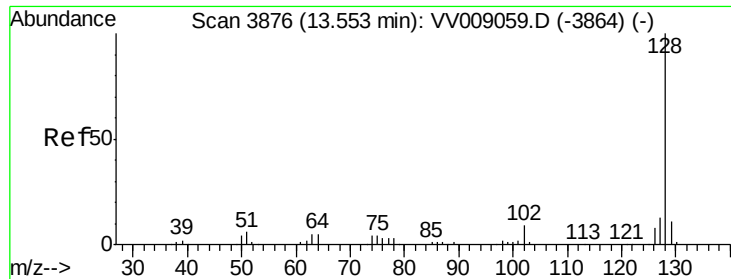
#68
 1,2,4-trichlorobenzene
 Concen: 23.859 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009076.D
 Acq: 20 Dec 2018 03:42

Tgt Ion:180 Resp: 70251
 Ion Ratio Lower Upper
 180 100
 182 98.0 77.4 116.0
 145 32.6 25.6 38.4



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: 23.686 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD02569

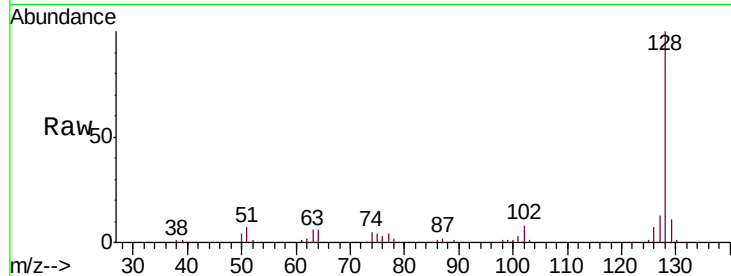
Tgt Ion:128 Resp: 120124

Ion Ratio Lower Upper

128 100

129 10.8 8.6 13.0

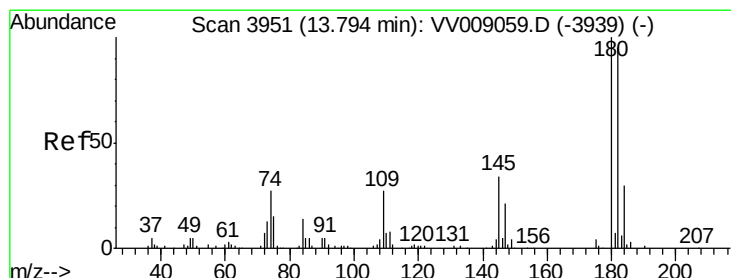
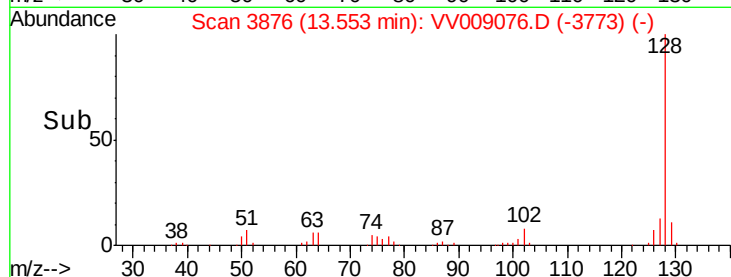
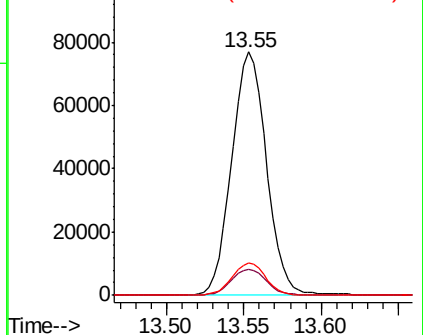
127 12.9 10.0 15.0



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: 23.992 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009076.D

Acq: 20 Dec 2018 03:42

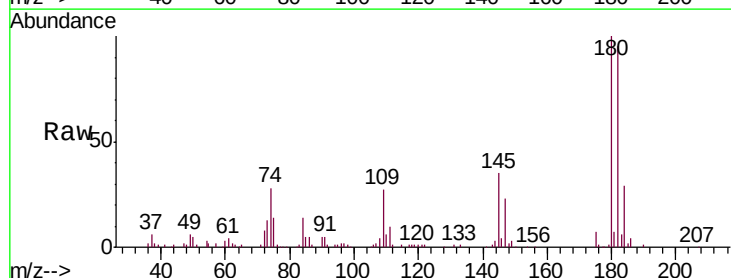
Tgt Ion:180 Resp: 65259

Ion Ratio Lower Upper

180 100

182 95.1 76.1 114.1

145 34.4 26.7 40.1



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

