

Data File : VV009043.D
Acq On : 19 Dec 2018 05:27
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02566

Quant Time: Dec 19 07:26:57 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 19 07:18:27 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	263281	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	241618	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	120028	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	53966	19.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	79.24%
7) Chloroethane-d5	1.58	69	51537	25.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.40%
10) 1,1-Dichloroethene-d2	2.13	63	134689	19.77	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	79.08%
20) 2-Butanone-d5	3.93	46	46405	46.78	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.56%
24) Chloroform-d	4.40	84	150347	23.75	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.00%
26) 1,2-Dichloroethane-d4	5.08	65	87955	25.47	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.88%
29) Benzene-d6	5.10	84	289580	21.46	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	85.84%
33) 1,2-Dichloropropane-d6	6.12	67	87231	23.09	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	92.36%
37) Toluene-d8	7.36	98	271855	21.77	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	87.08%
38) trans-1,3-Dichloropropene-	7.66	79	39171	23.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	94.40%
39) 2-Hexanone-d5	8.13	63	31749	45.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	91.74%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	73924	23.33	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	93.32%
61) 1,2-Dichlorobenzene-d4	11.67	152	113301	25.15	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	71162	16.489 ug/L	98
3) Chloromethane	1.25	50	60082	20.259 ug/L	99
5) Vinyl chloride	1.32	62	63211	19.093 ug/L	99
6) Bromomethane	1.53	94	47980	30.143 ug/L	100
8) Chloroethane	1.59	64	47422	25.575 ug/L	97
9) Trichlorofluoromethane	1.76	101	132680	23.397 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	73823	18.981 ug/L	98
12) 1,1-Dichloroethene	2.14	96	68121	20.072 ug/L	96
13) Acetone	2.20	43	37504	25.662 ug/L	99
14) Carbon disulfide	2.32	76	214926	19.722 ug/L	100
15) Methyl Acetate	2.46	43	41146	22.203 ug/L	98
16) Methylene chloride	2.53	84	88189	19.892 ug/L	97
17) Methyl tert-butyl Ether	2.80	73	191266	24.806 ug/L	97
18) trans-1,2-Dichloroethene	2.79	96	80866	22.050 ug/L	97
19) 1,1-Dichloroethane	3.23	63	138431	23.285 ug/L	98
21) 2-Butanone	4.02	43	48879	35.684 ug/L	90
22) cis-1,2-Dichloroethene	3.96	96	91013	23.801 ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	45215	25.088	ug/L	95
25) Chloroform	4.42	83	158896	24.904	ug/L	99
27) 1,2-Dichloroethane	5.18	62	107983	24.845	ug/L	100
30) Cyclohexane	4.73	56	108323	17.804	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	127170	20.414	ug/L	99
32) Carbon tetrachloride	4.87	117	110982	19.514	ug/L	100
34) Benzene	5.15	78	314683	21.738	ug/L	100
35) Trichloroethene	5.96	95	92740	21.250	ug/L	98
36) Methylcyclohexane	6.18	83	127410	18.305	ug/L	98
40) 1,2-Dichloropropane	6.22	63	80393	23.140	ug/L	99
41) Bromodichloromethane	6.56	83	110010	24.024	ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	124182	24.414	ug/L	98
43) 4-Methyl-2-pentanone	7.27	43	98929	42.129	ug/L	99
44) Toluene	7.43	91	338619	22.305	ug/L	96
45) trans-1,3-Dichloropropene	7.69	75	106603	24.042	ug/L	96
46) 1,1,2-Trichloroethane	7.88	97	70002	24.182	ug/L	98
47) Tetrachloroethene	8.02	164	76368	21.517	ug/L	97
49) 2-Hexanone	8.19	43	70396	36.236	ug/L	96
50) Dibromochloromethane	8.29	129	86218	25.983	ug/L	98
51) 1,2-Dibromoethane	8.40	107	69324	23.847	ug/L	100
52) Chlorobenzene	8.93	112	228897	23.156	ug/L	100
53) Ethylbenzene	9.06	91	362176	21.991	ug/L	98
54) m,p-Xylene	9.18	106	137052	21.978	ug/L	97
55) o-xylene	9.59	106	134217	23.165	ug/L	96
56) Styrene	9.60	104	222070	23.759	ug/L	97
57) Isopropylbenzene	9.98	105	337380	21.425	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	71484	22.842	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	62382	23.038	ug/L	100
62) Bromoform	9.78	173	47680	22.001	ug/L	98
63) 1,3-Dichlorobenzene	11.23	146	181274	23.438	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	184671	23.203	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	185549	26.023	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	15191	26.005	ug/L	89
67) 1,3,5-Trichlorobenzene	12.69	180	121561	21.760	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	93664	23.929	ug/L	100
69) Naphthalene	13.55	128	171954	25.505	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	86758	23.993	ug/L	99

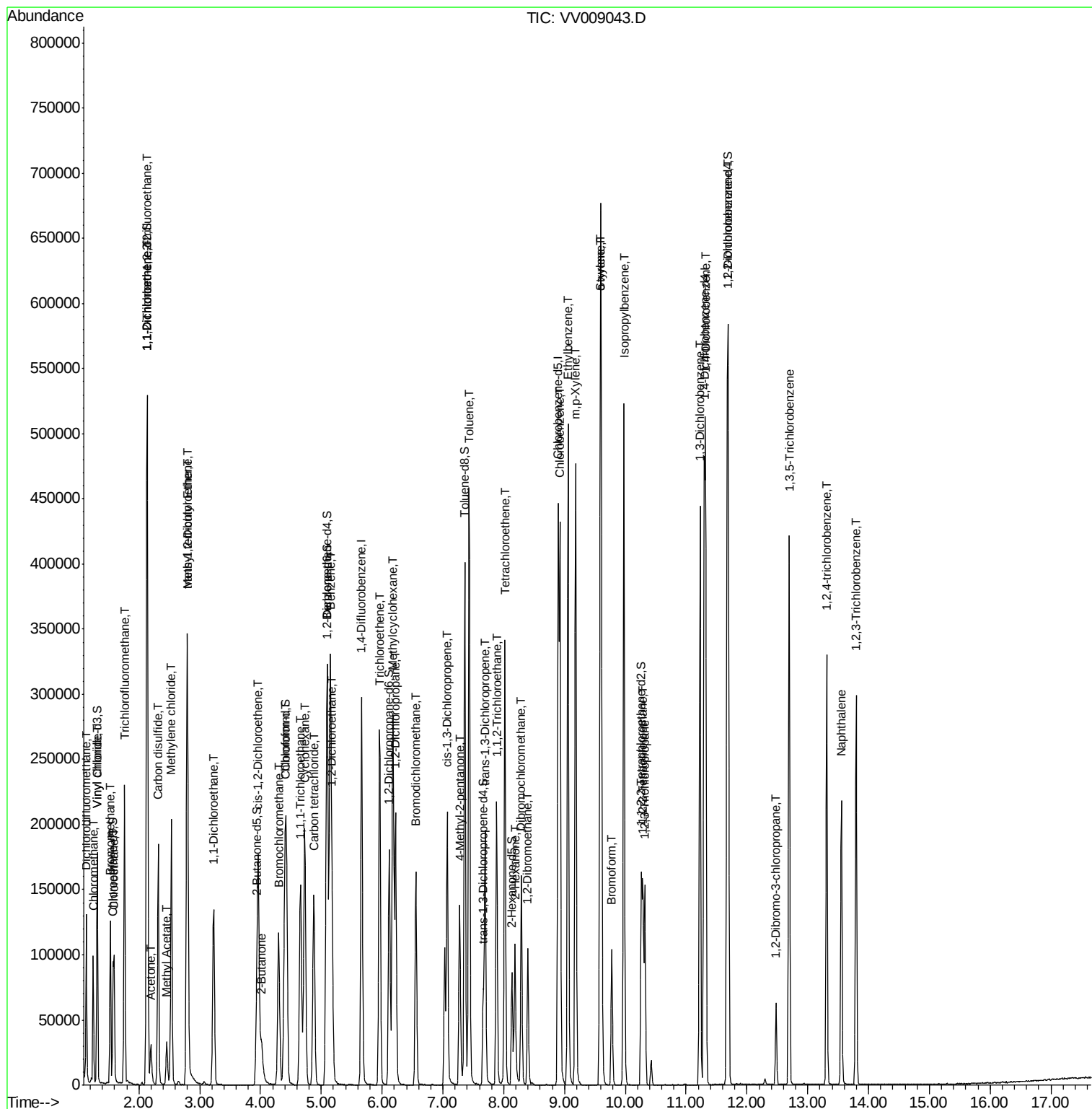
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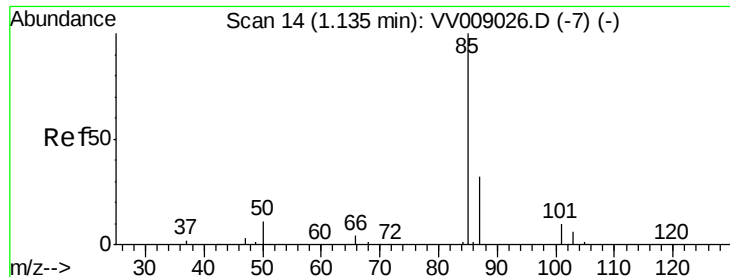
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#2

Dichlorodifluoromethane

Concen: 16.489 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

Instrument :

MSVOA_V

ClientSampleId :

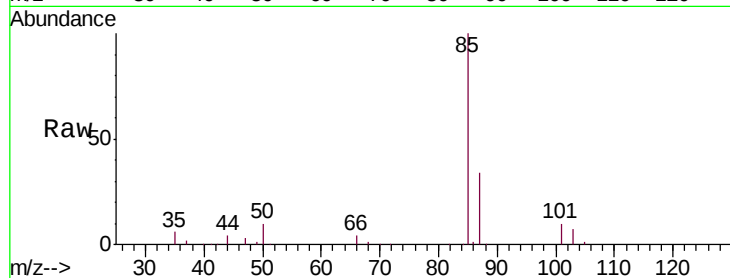
VSTD02566

Tgt Ion: 85 Resp: 71162

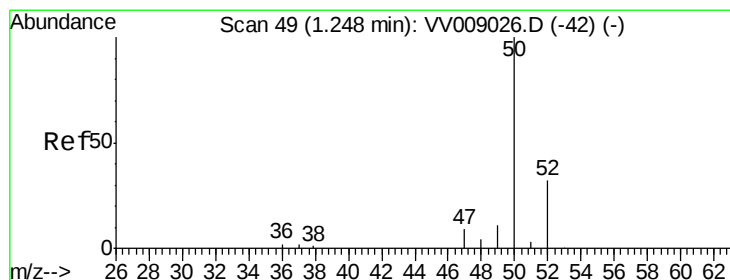
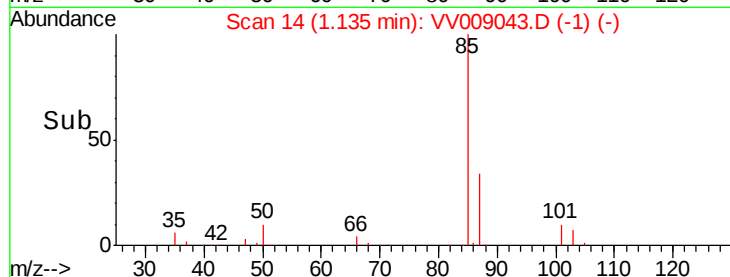
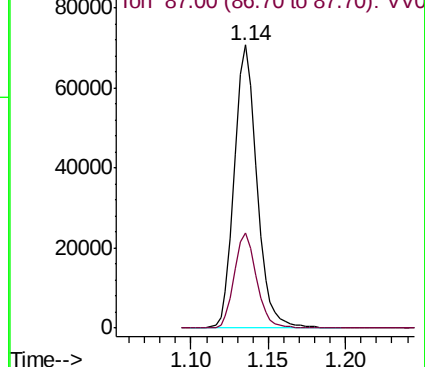
Ion Ratio Lower Upper

85 100

87 33.1 22.4 41.6



Abundance Ion 85.00 (84.70 to 85.70): VV009026.D (-7) (-)



#3

Chloromethane

Concen: 20.259 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV009043.D

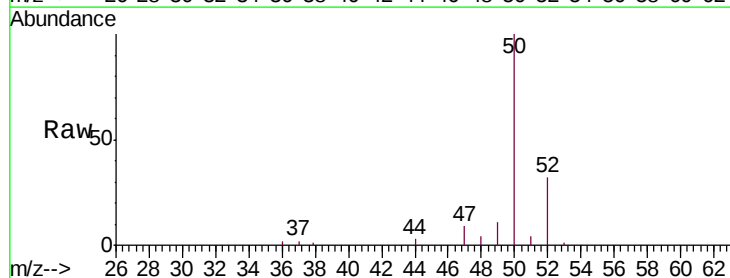
Acq: 19 Dec 2018 05:27

Tgt Ion: 50 Resp: 60082

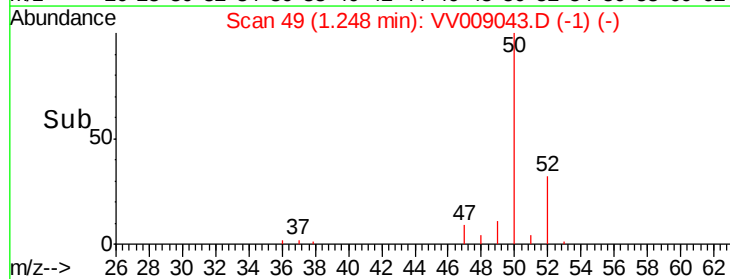
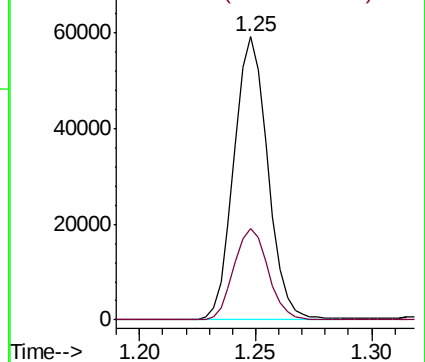
Ion Ratio Lower Upper

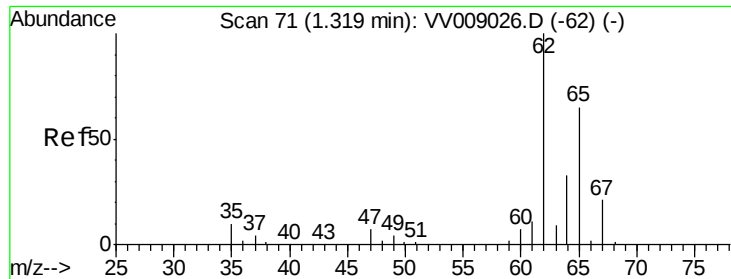
50 100

52 32.4 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VV009026.D (-42) (-)





#5

Vinyl chloride

Concen: 19.093 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

Instrument :

MSVOA_V

ClientSampleId :

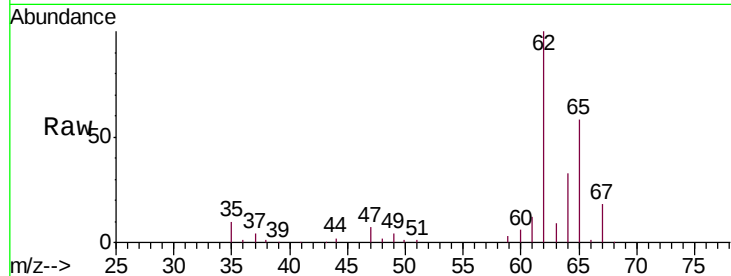
VSTD02566

Tgt Ion: 62 Resp: 63211

Ion Ratio Lower Upper

62 100

64 32.7 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VV009026.D (-62) (-)

Ion 64.00 (63.70 to 64.70): VV009043.D (-64) (-)

1.32

60000

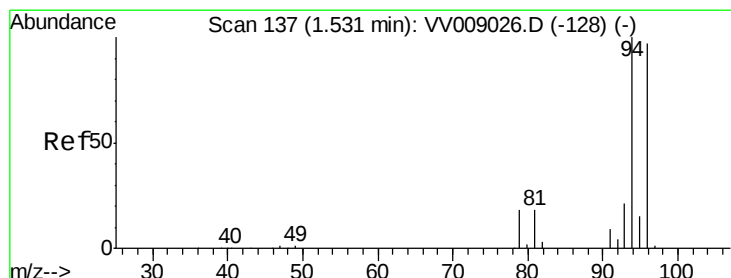
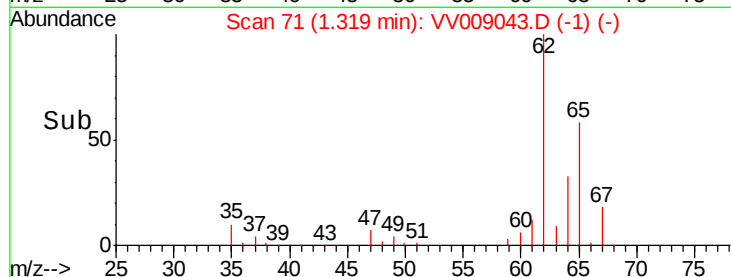
40000

20000

0

Time-->

1.25 1.30 1.35 1.40



#6

Bromomethane

Concen: 30.143 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV009043.D

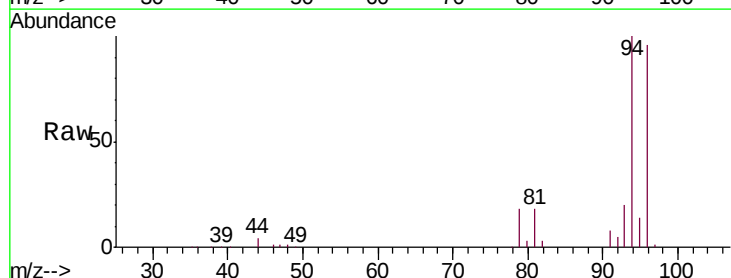
Acq: 19 Dec 2018 05:27

Tgt Ion: 94 Resp: 47980

Ion Ratio Lower Upper

94 100

96 95.5 9.5 180.9



Abundance Ion 94.00 (93.70 to 94.70): VV009026.D (-128) (-)

Ion 96.00 (95.70 to 96.70): VV009043.D (-96) (-)

1.53

50000

40000

30000

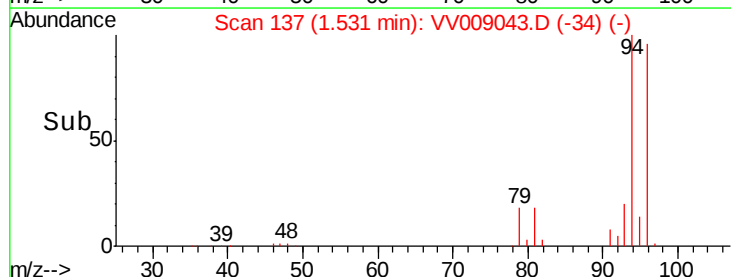
20000

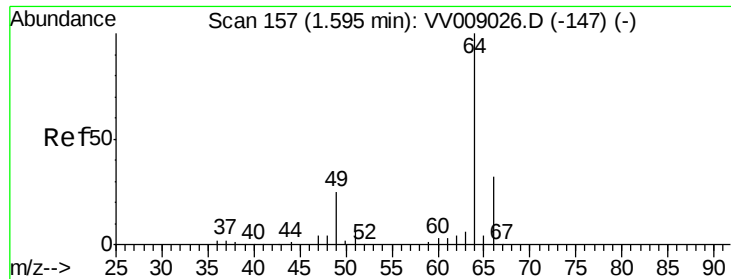
10000

0

Time-->

1.50 1.55 1.60

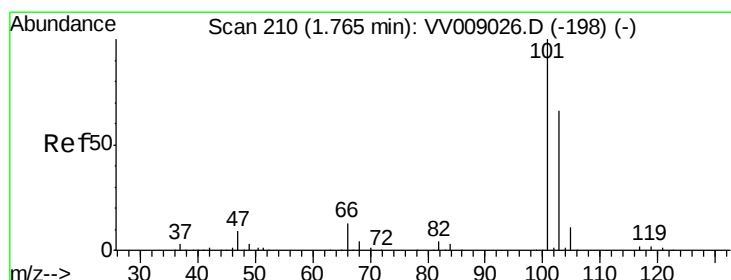
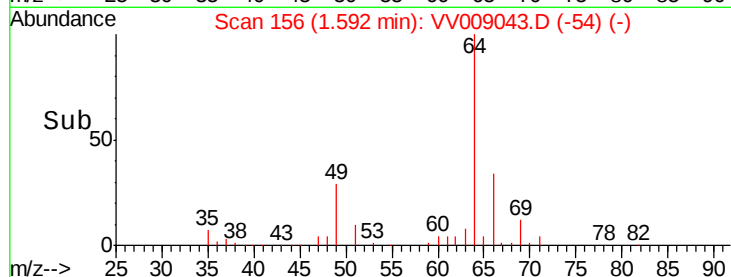
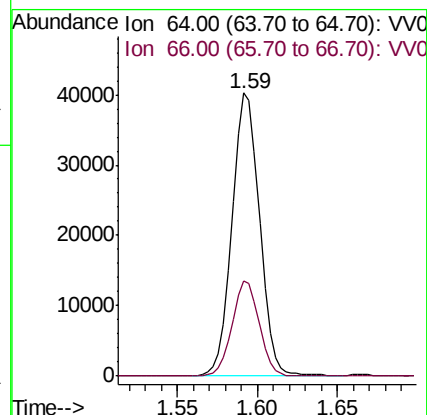
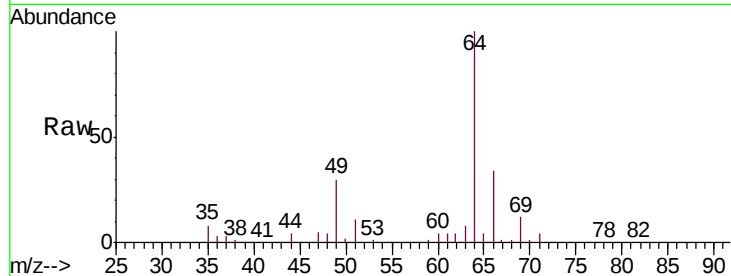




#8
Chloroethane
Concen: 25.575 ug/L
RT: 1.59 min Scan# 156
Delta R.T. -0.00 min
Lab File: VV009043.D
Acq: 19 Dec 2018 05:27

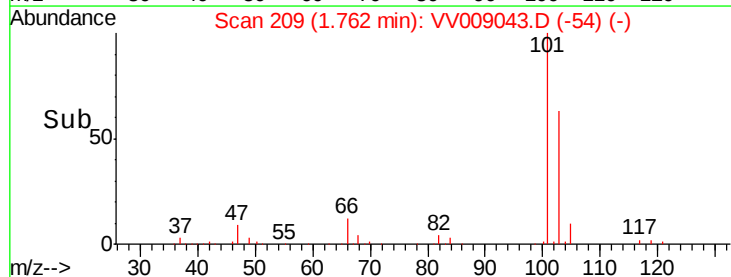
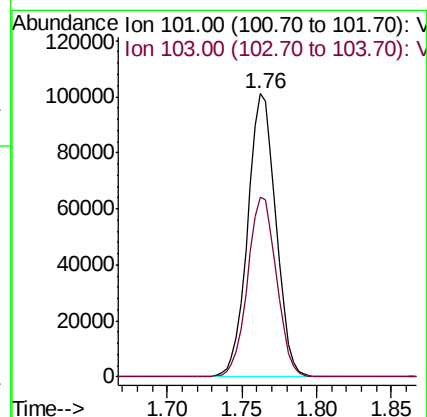
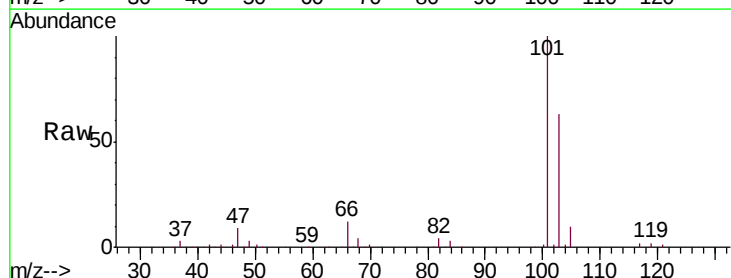
Instrument :
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ClientSampleId :
VSTD02566

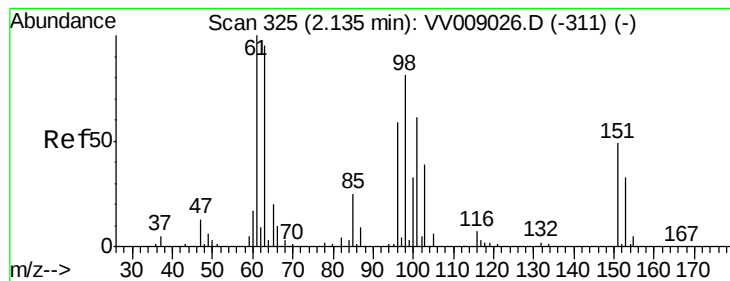
Tgt Ion: 64 Resp: 47422
Ion Ratio Lower Upper
64 100
66 33.5 22.2 41.2



#9
Trichlorofluoromethane
Concen: 23.397 ug/L
RT: 1.76 min Scan# 209
Delta R.T. -0.00 min
Lab File: VV009043.D
Acq: 19 Dec 2018 05:27

Tgt Ion: 101 Resp: 132680
Ion Ratio Lower Upper
101 100
103 65.1 44.8 83.2





#11

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

Concen: 18.981 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02566

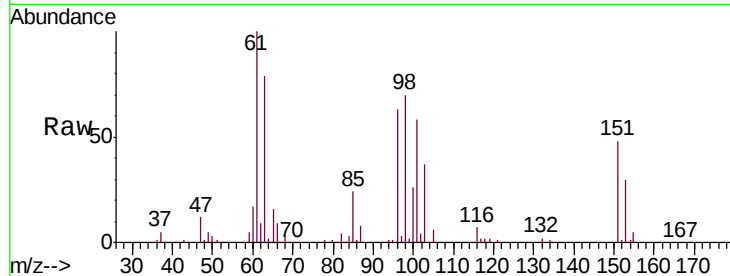
Tgt Ion:101 Resp: 73823

Ion Ratio Lower Upper

101 100

85 42.0 32.5 48.7

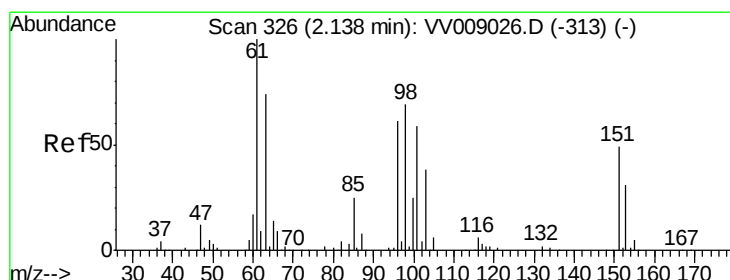
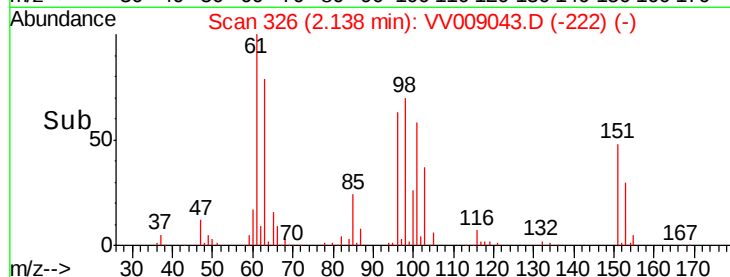
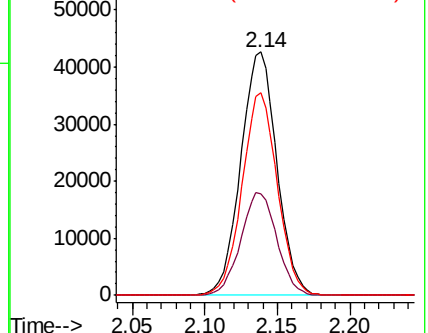
151 81.3 64.2 96.4



Abundance Ion 101.00 (100.70 to 101.70): VV009043.D (-222) (-)

Ion 85.00 (84.70 to 85.70): VV009043.D (-222) (-)

Ion 151.00 (150.70 to 151.70): VV009043.D (-222) (-)



#12

1,1-Dichloroethene

Concen: 20.072 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

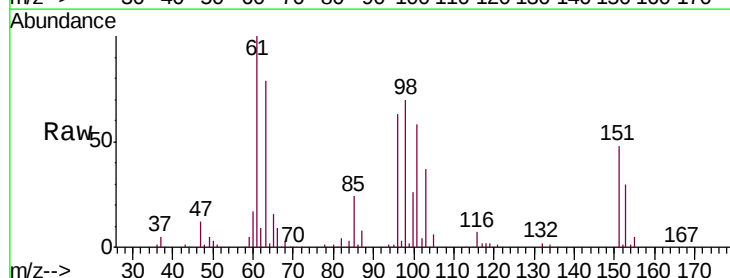
Tgt Ion: 96 Resp: 68121

Ion Ratio Lower Upper

96 100

61 159.8 114.0 211.6

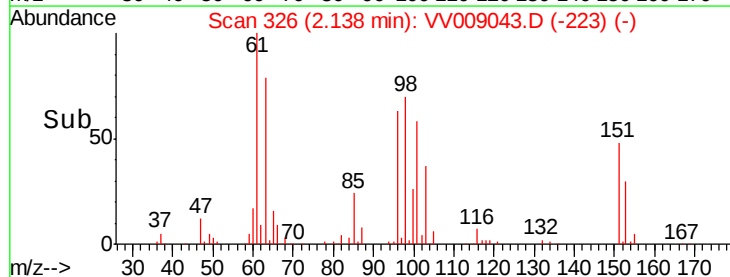
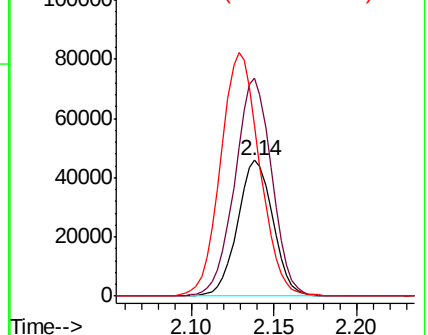
63 125.6 82.4 153.0

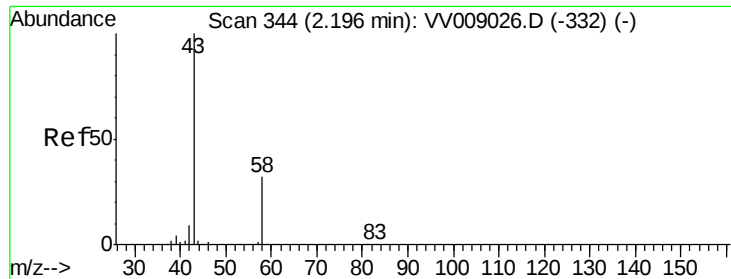


Abundance Ion 96.00 (95.70 to 96.70): VV009043.D (-223) (-)

Ion 61.00 (60.70 to 61.70): VV009043.D (-223) (-)

Ion 63.00 (62.70 to 63.70): VV009043.D (-223) (-)





#13

Acetone

Concen: 25.662 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

Instrument :

MSVOA_V

ClientSampleId :

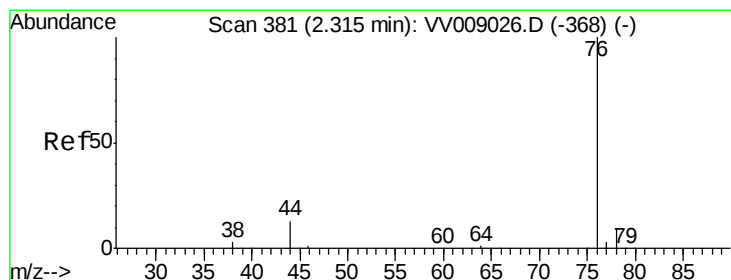
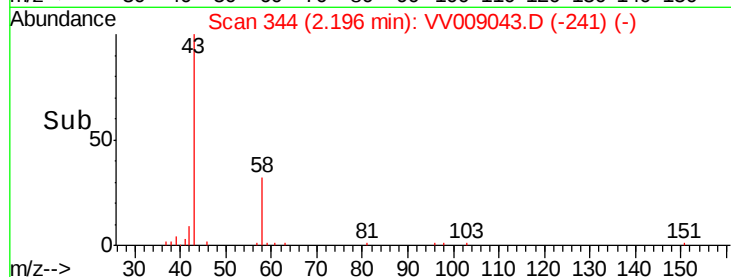
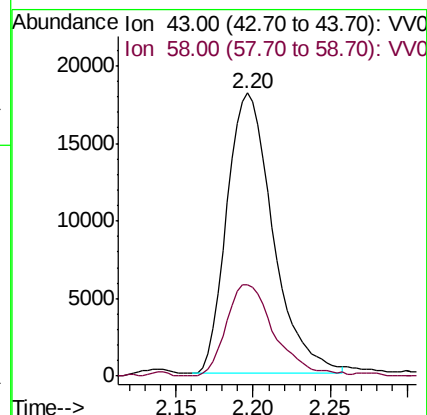
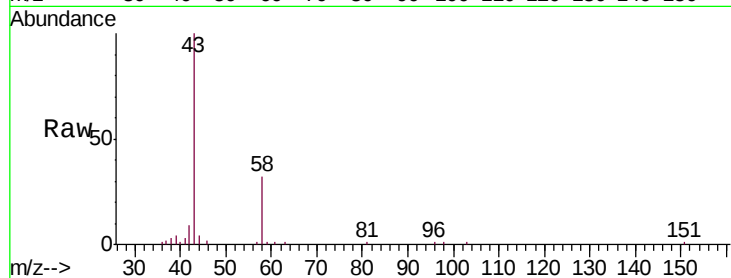
VSTD02566

Tgt Ion: 43 Resp: 37504

Ion Ratio Lower Upper

43 100

58 33.3 0.0 65.4



#14

Carbon disulfide

Concen: 19.722 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV009043.D

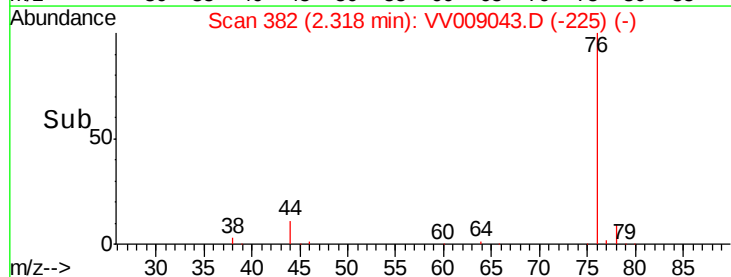
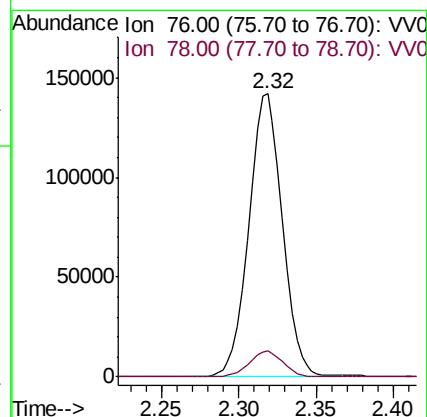
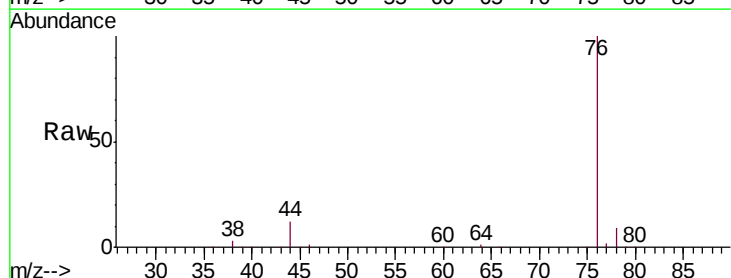
Acq: 19 Dec 2018 05:27

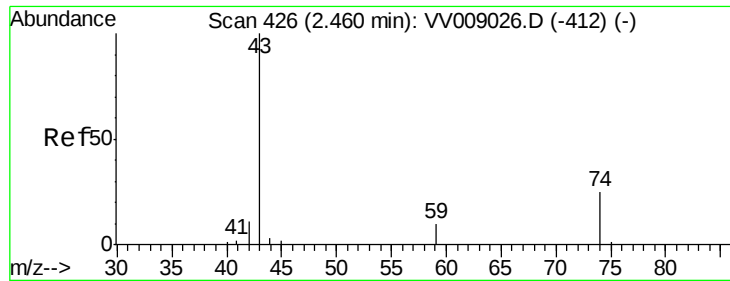
Tgt Ion: 76 Resp: 214926

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0





#15

Methyl Acetate

Concen: 22.203 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

Instrument :

MSVOA_V

ClientSampleId :

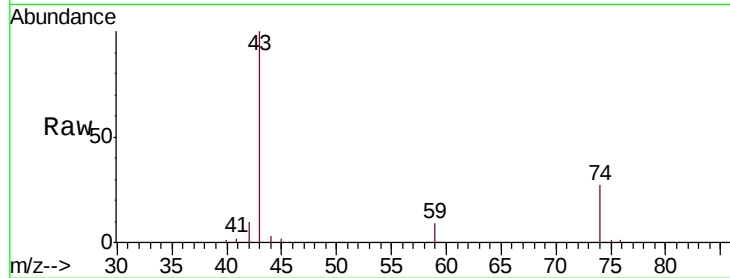
VSTD02566

Tgt Ion: 43 Resp: 41146

Ion Ratio Lower Upper

43 100

74 25.4 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VV009026.D (-412) (-)

Ion 74.00 (73.70 to 74.70): VV009026.D (-412) (-)

2.46

20000

15000

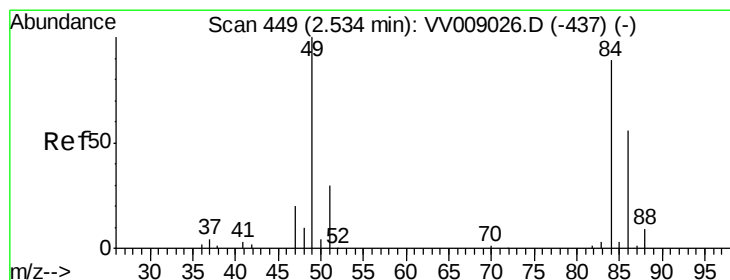
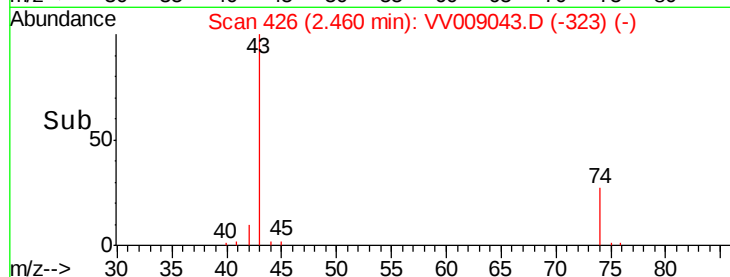
10000

5000

0

Time-->

2.40 2.45 2.50 2.55



#16

Methylene chloride

Concen: 19.892 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

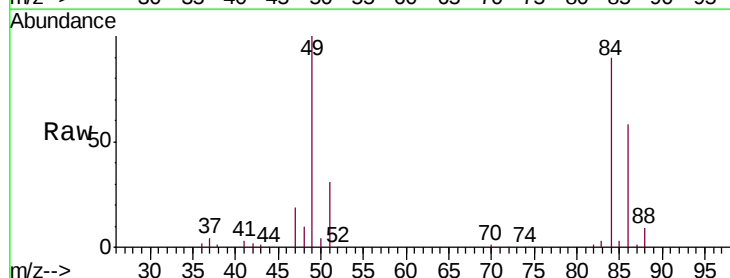
Tgt Ion: 84 Resp: 88189

Ion Ratio Lower Upper

84 100

49 110.6 80.5 149.5

86 64.0 45.5 84.5



Abundance Ion 84.00 (83.70 to 84.70): VV009026.D (-437) (-)

Ion 49.00 (48.70 to 49.70): VV009026.D (-437) (-)

Ion 86.00 (85.70 to 86.70): VV009026.D (-437) (-)

2.53

80000

60000

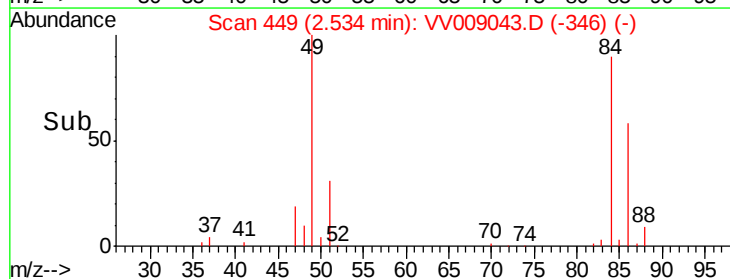
40000

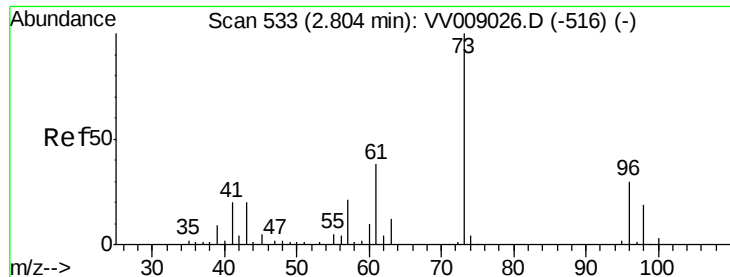
20000

0

Time-->

2.45 2.50 2.55 2.60

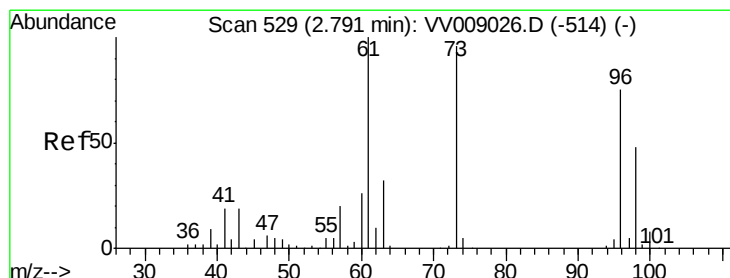
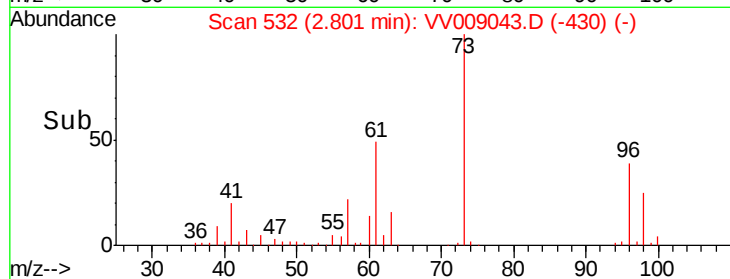
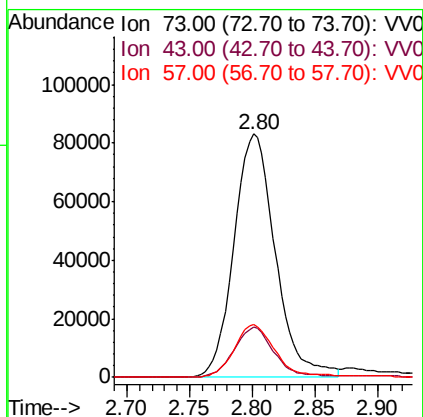
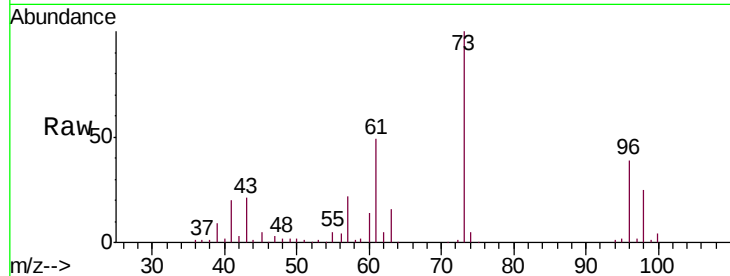




#17
Methyl tert-butyl Ether
Concen: 24.806 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV009043.D
Acq: 19 Dec 2018 05:27

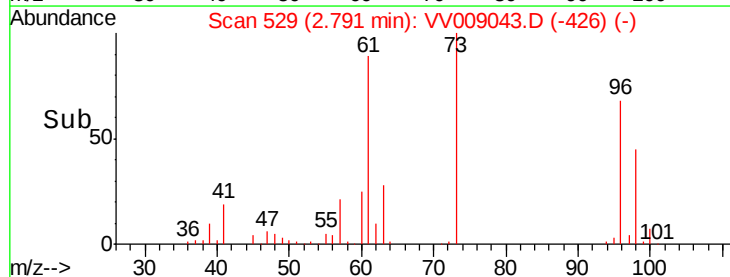
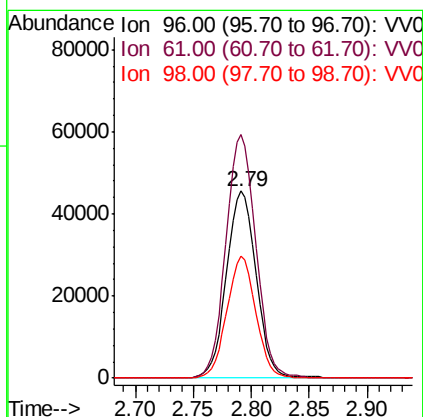
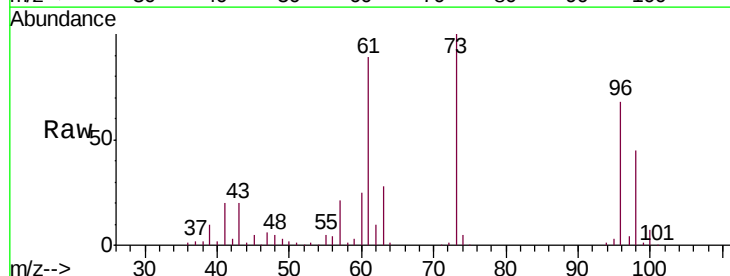
Instrument :
MSVOA_V
ClientSampleId :
VSTD02566

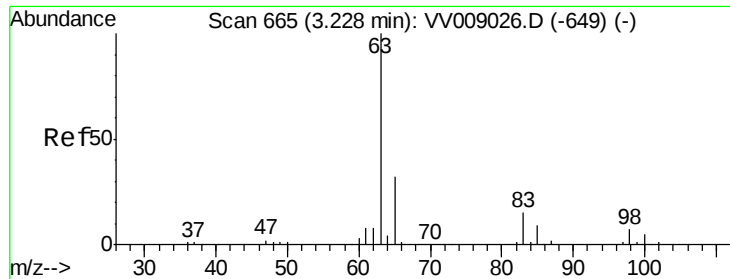
Tgt Ion: 73 Resp: 191266
Ion Ratio Lower Upper
73 100
43 20.2 14.9 22.3
57 20.8 16.0 24.0



#18
trans-1,2-Dichloroethene
Concen: 22.050 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV009043.D
Acq: 19 Dec 2018 05:27

Tgt Ion: 96 Resp: 80866
Ion Ratio Lower Upper
96 100
61 130.4 94.6 175.8
98 65.3 45.3 84.1

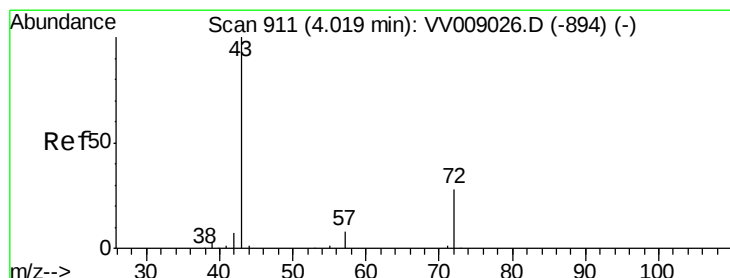
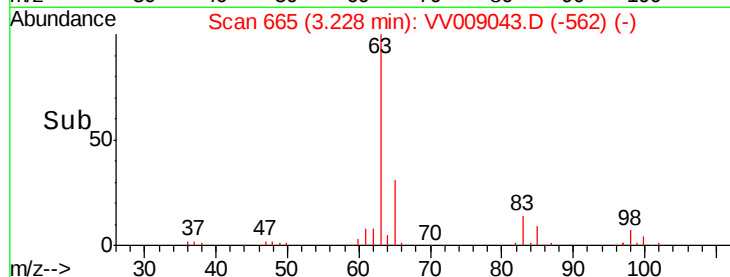
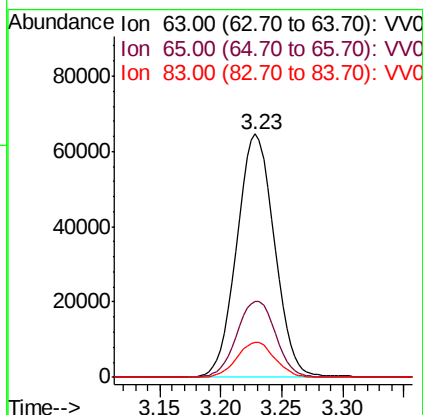
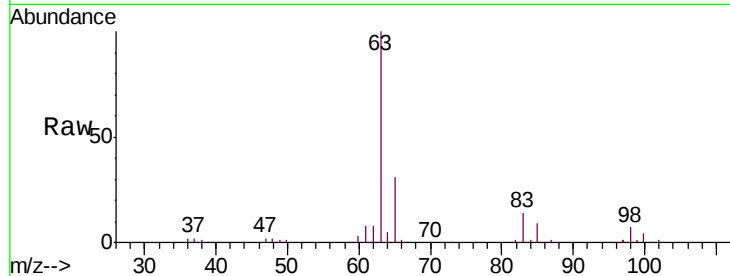




#19
 1,1-Dichloroethane
 Concen: 23.285 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV009043.D
 Acq: 19 Dec 2018 05:27

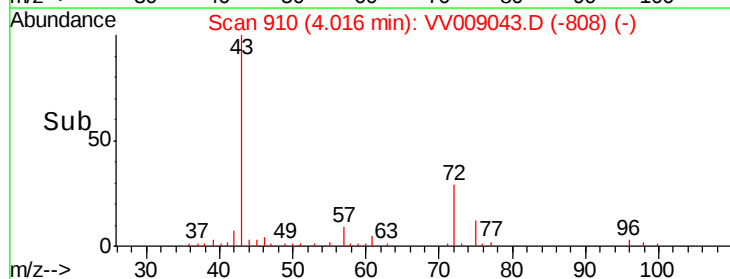
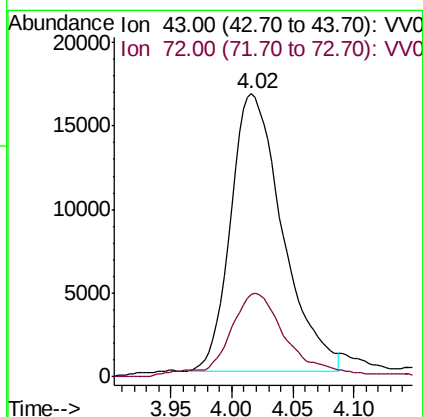
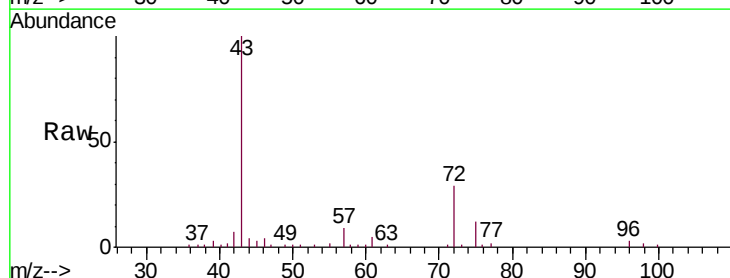
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02566

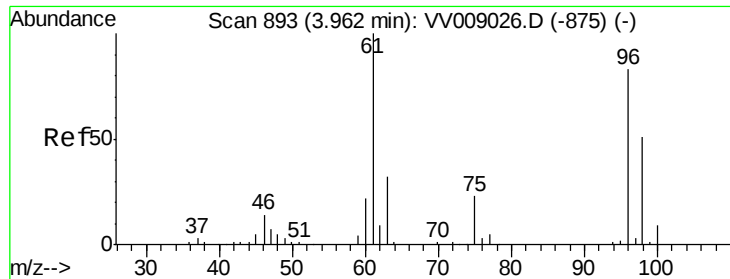
Tgt Ion: 63 Resp: 138431
 Ion Ratio Lower Upper
 63 100
 65 31.0 22.7 42.1
 83 14.5 10.2 19.0



#21
 2-Butanone
 Concen: 35.684 ug/L
 RT: 4.02 min Scan# 910
 Delta R.T. -0.00 min
 Lab File: VV009043.D
 Acq: 19 Dec 2018 05:27

Tgt Ion: 43 Resp: 48879
 Ion Ratio Lower Upper
 43 100
 72 32.5 13.7 41.1



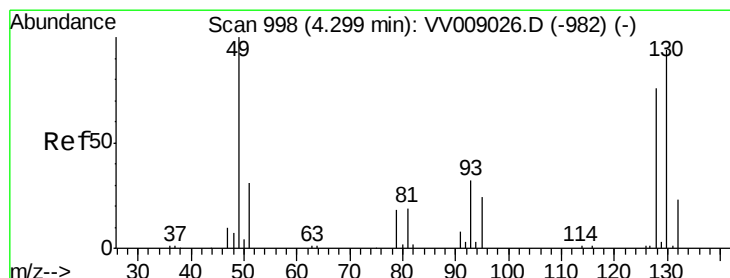
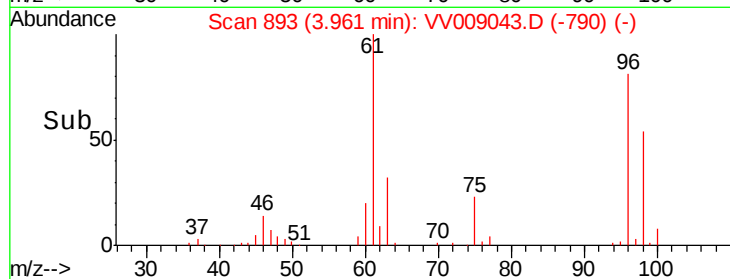
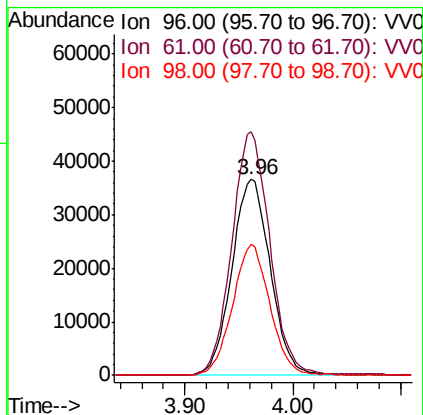
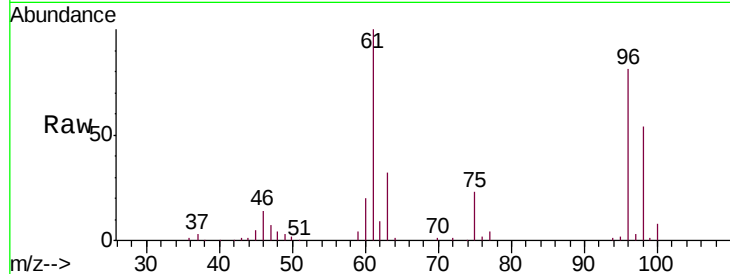


#22

cis-1,2-Dichloroethene
 Concen: 23.801 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. -0.00 min
 Lab File: VV009043.D
 Acq: 19 Dec 2018 05:27

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02566

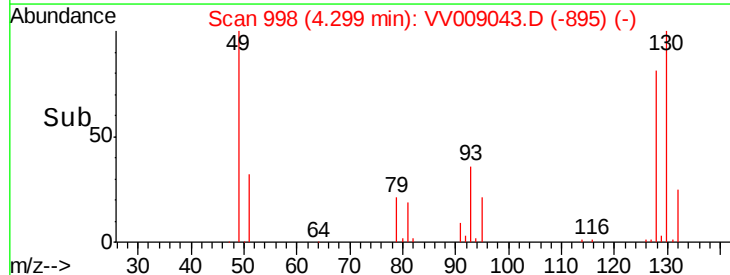
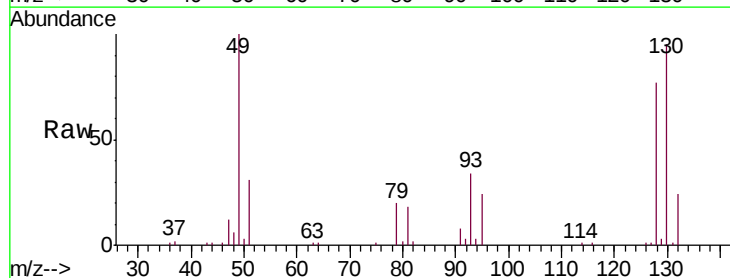
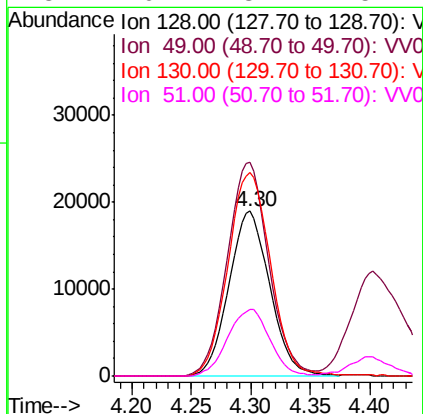
Tgt Ion: 96 Resp: 91013
 Ion Ratio Lower Upper
 96 100
 61 124.2 86.2 160.0
 98 66.5 45.6 84.6

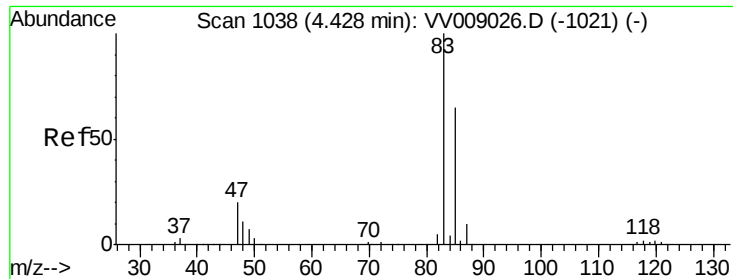


#23

Bromochloromethane
 Concen: 25.088 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. 0.00 min
 Lab File: VV009043.D
 Acq: 19 Dec 2018 05:27

Tgt Ion: 128 Resp: 45215
 Ion Ratio Lower Upper
 128 100
 49 129.4 93.8 174.2
 130 123.0 90.4 168.0
 51 40.1 34.2 51.4

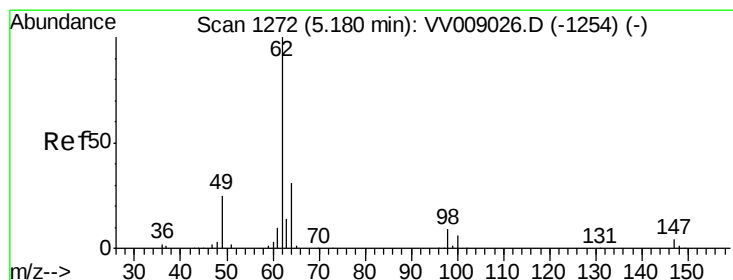
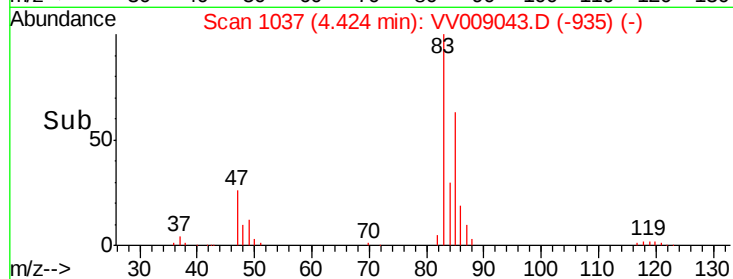
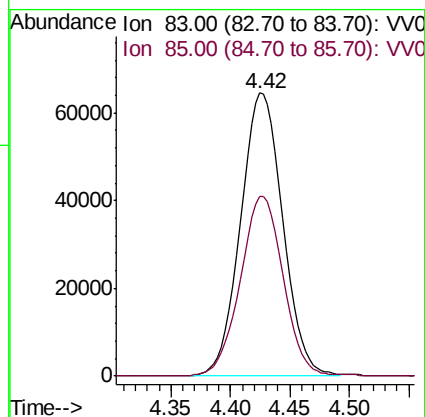
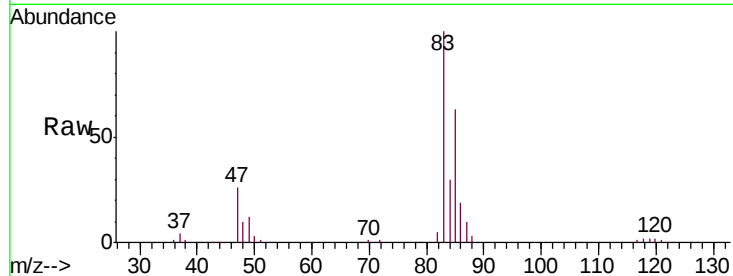




#25
Chloroform
Concen: 24.904 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV009043.D
Acq: 19 Dec 2018 05:27

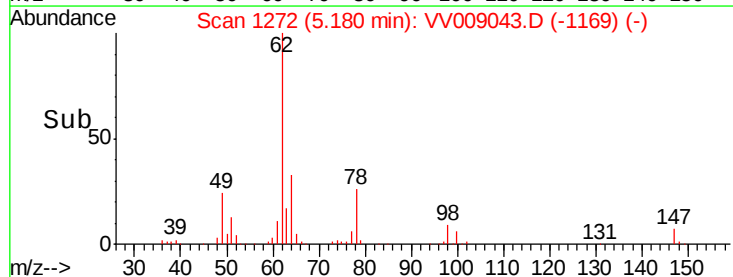
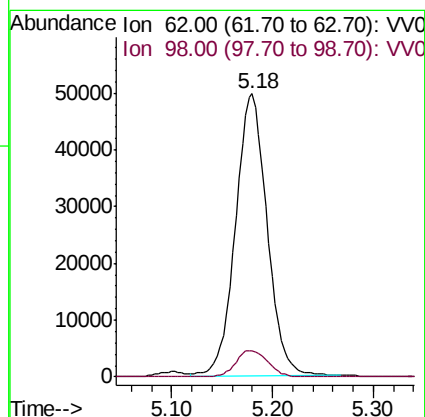
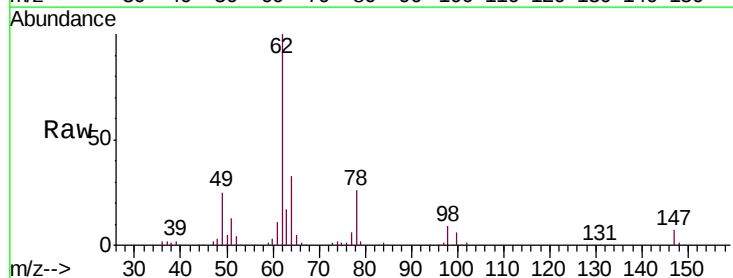
Instrument :
MSVOA_V
ClientSampleId :
VSTD02566

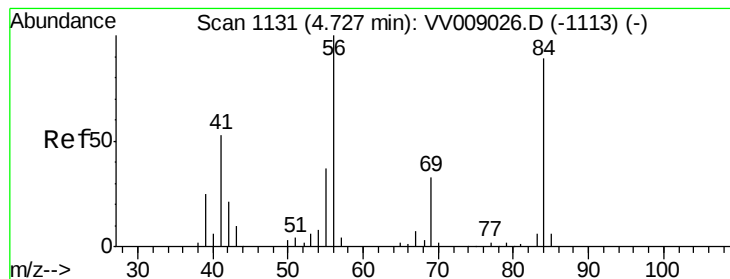
Tgt Ion: 83 Resp: 158896
Ion Ratio Lower Upper
83 100
85 64.3 45.6 84.8



#27
1,2-Dichloroethane
Concen: 24.845 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV009043.D
Acq: 19 Dec 2018 05:27

Tgt Ion: 62 Resp: 107983
Ion Ratio Lower Upper
62 100
98 9.1 7.4 11.0





#30

Cyclohexane

Concen: 17.804 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02566

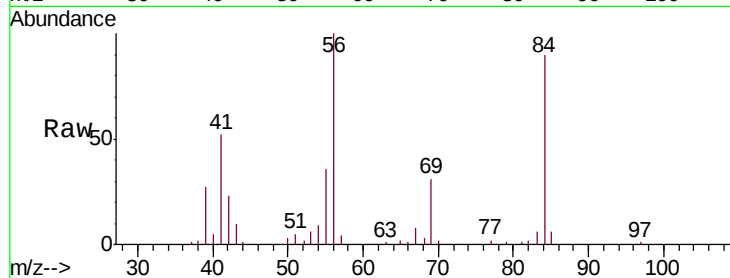
Tgt Ion: 56 Resp: 108323

Ion Ratio Lower Upper

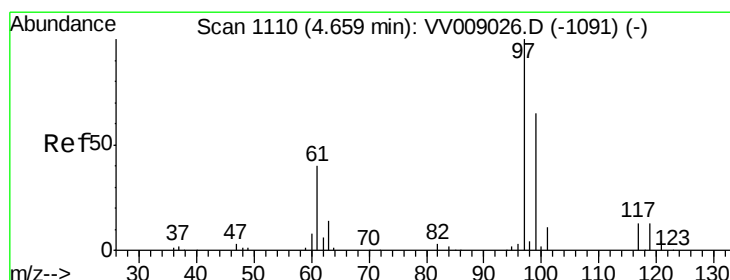
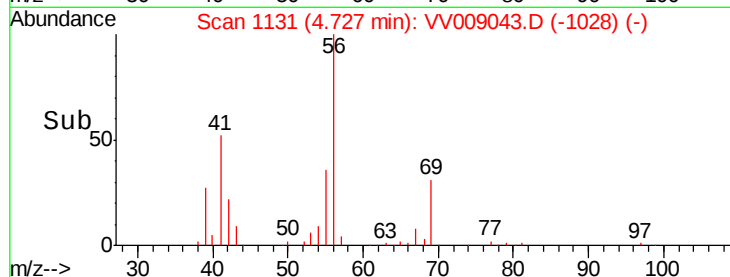
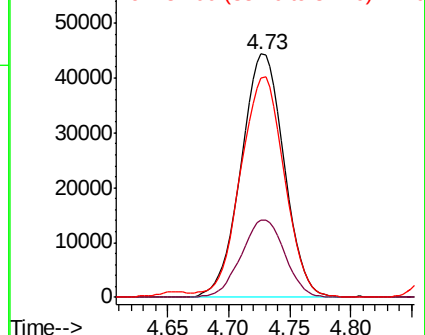
56 100

69 32.1 25.8 38.8

84 92.6 73.0 109.6



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



#31

1,1,1-Trichloroethane

Concen: 20.414 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

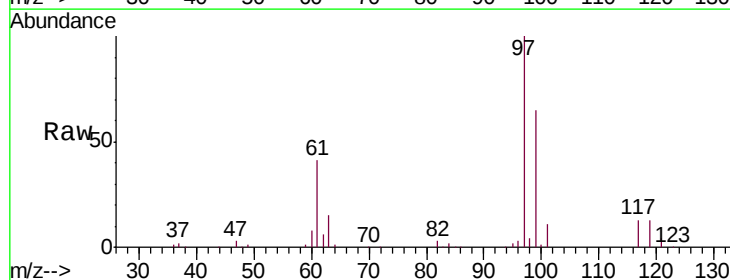
Tgt Ion: 97 Resp: 127170

Ion Ratio Lower Upper

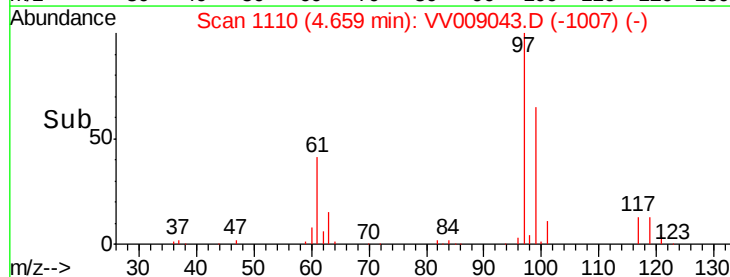
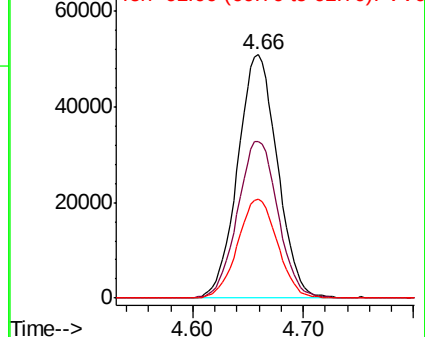
97 100

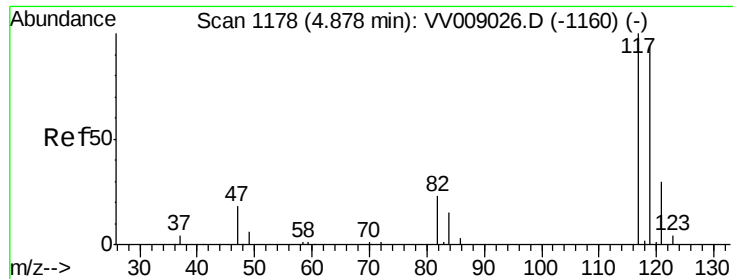
99 65.5 51.9 77.9

61 40.7 33.1 49.7



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 19.514 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

Instrument :

MSVOA_V

ClientSampleId :

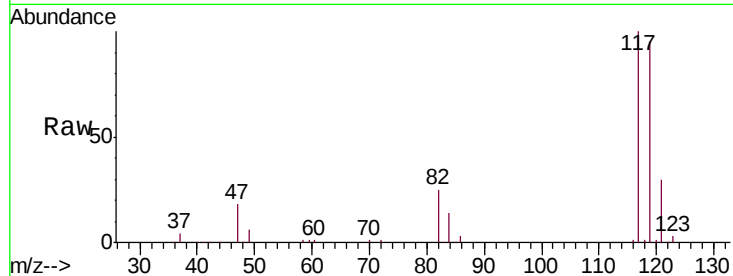
VSTD02566

Tgt Ion:117 Resp: 110982

Ion Ratio Lower Upper

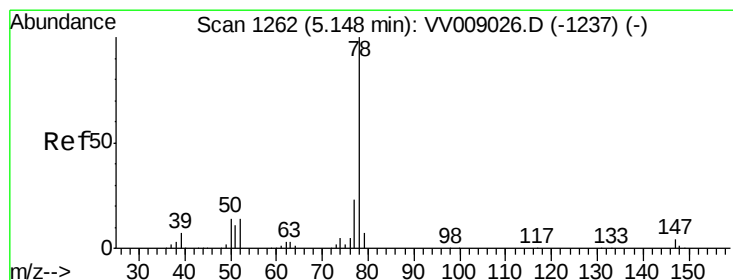
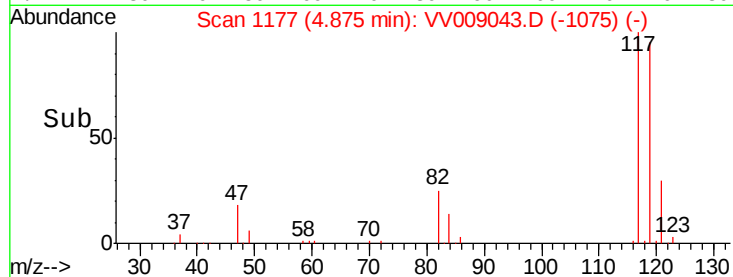
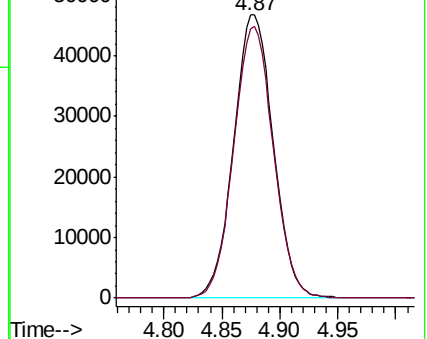
117 100

119 96.2 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: 21.738 ug/L

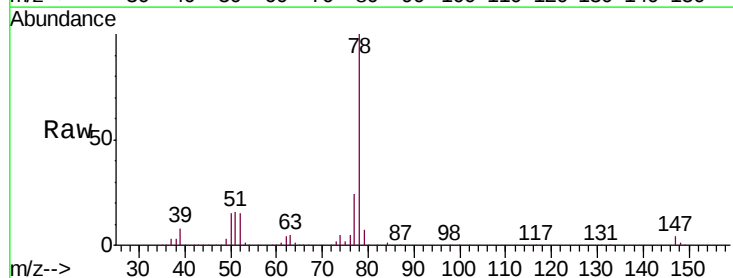
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

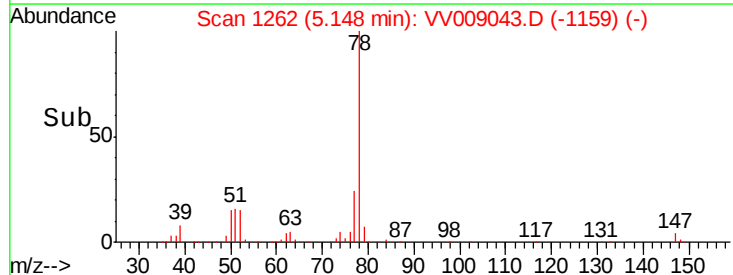
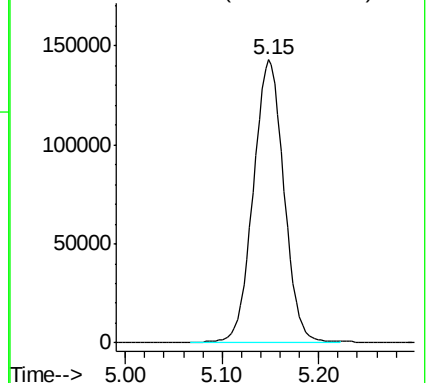
Lab File: VV009043.D

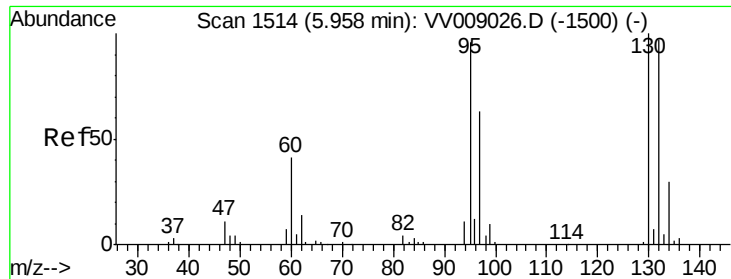
Acq: 19 Dec 2018 05:27

Tgt Ion: 78 Resp: 314683



Abundance Ion 78.00 (77.70 to 78.70): VV0

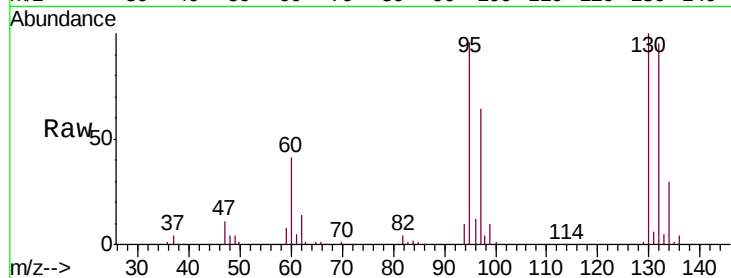




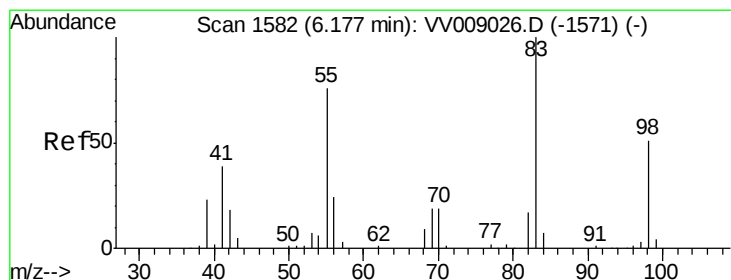
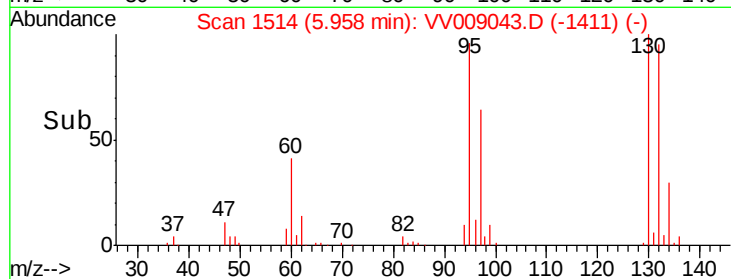
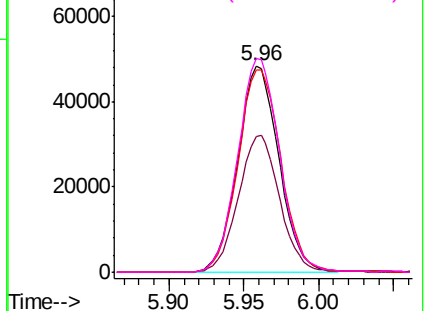
#35
 Trichloroethene
 Concen: 21.250 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV009043.D
 Acq: 19 Dec 2018 05:27

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02566

Tgt Ion: 95 Resp: 92740
 Ion Ratio Lower Upper
 95 100
 97 66.7 45.3 84.1
 132 102.0 70.0 130.0
 130 105.9 73.4 136.4

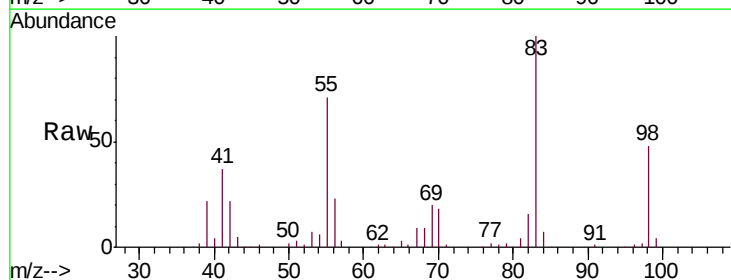


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

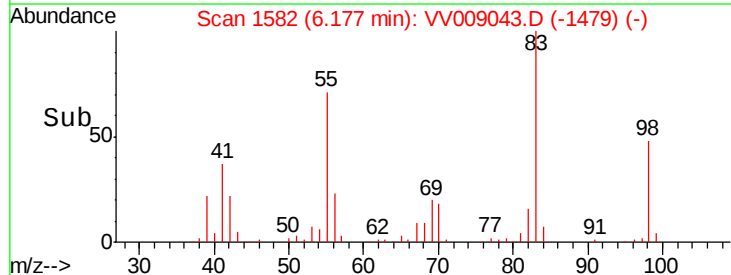
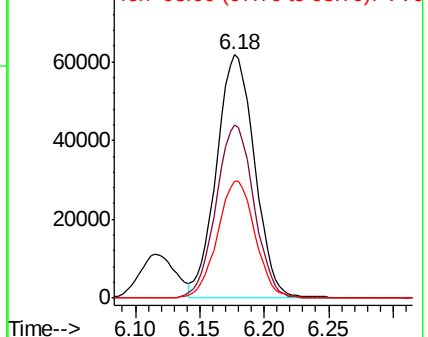


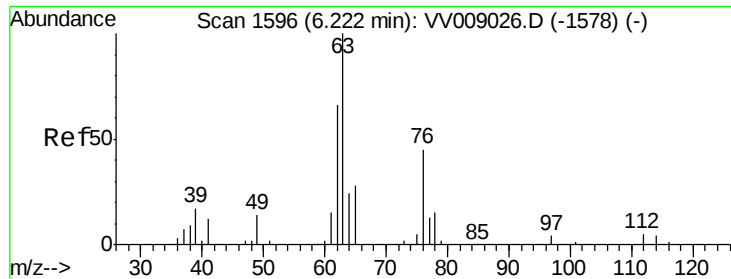
#36
 Methylcyclohexane
 Concen: 18.305 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV009043.D
 Acq: 19 Dec 2018 05:27

Tgt Ion: 83 Resp: 127410
 Ion Ratio Lower Upper
 83 100
 55 70.3 58.2 87.2
 98 46.9 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

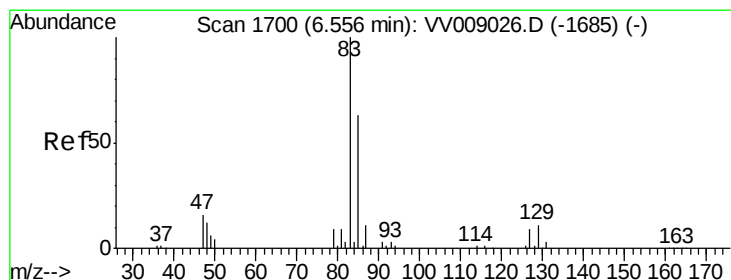
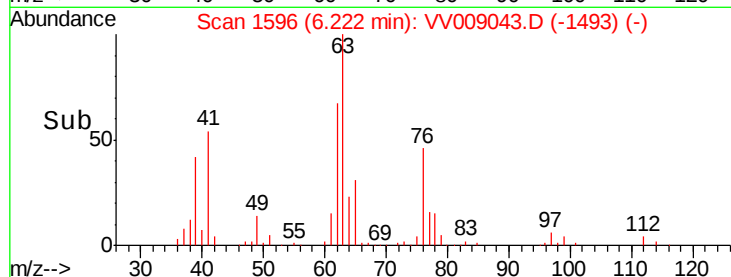
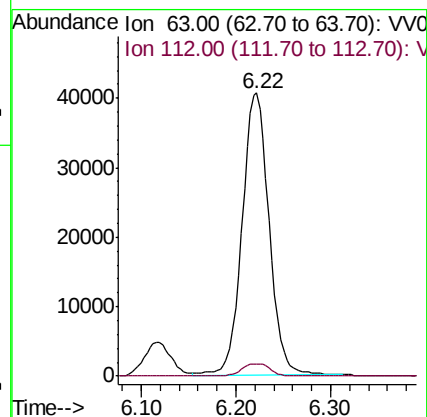
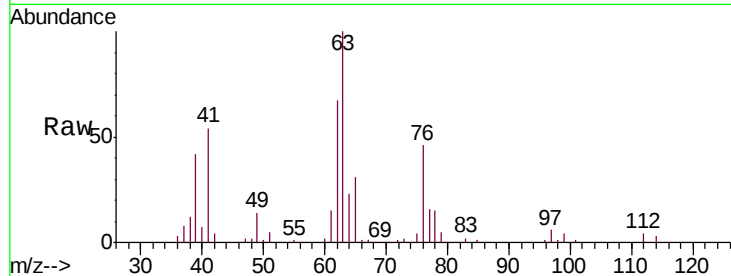




#40
 1,2-Dichloropropane
 Concen: 23.140 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV009043.D
 Acq: 19 Dec 2018 05:27

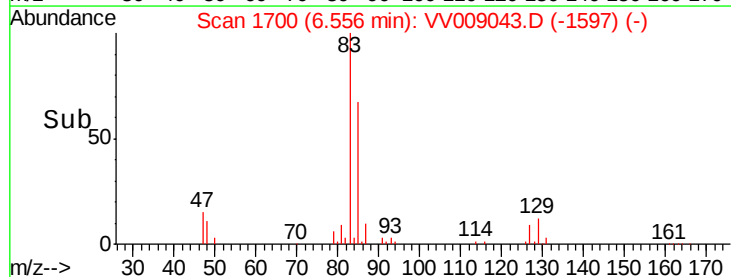
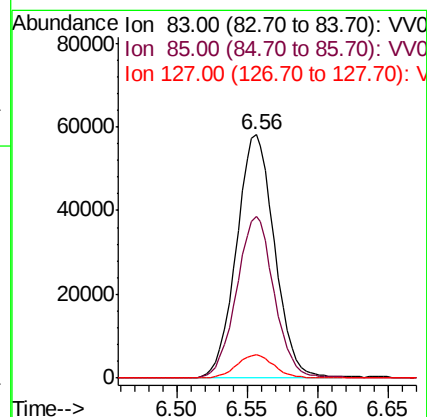
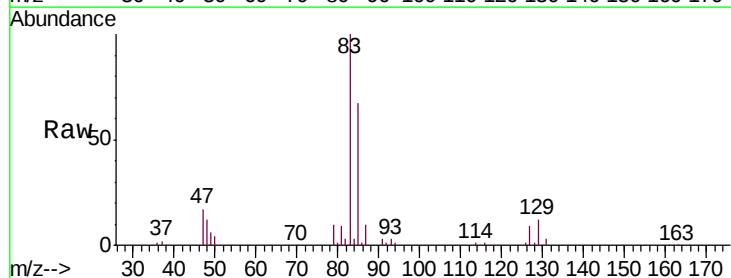
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02566

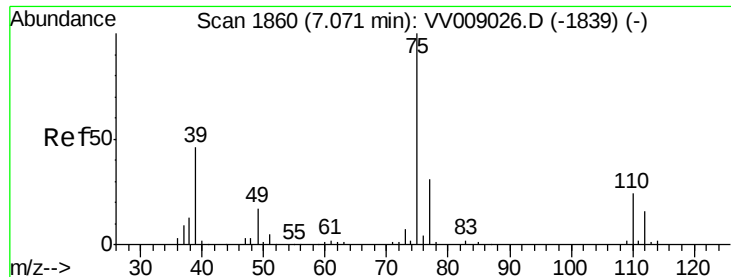
Tgt Ion: 63 Resp: 80393
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.8 5.8



#41
 Bromodichloromethane
 Concen: 24.024 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. -0.00 min
 Lab File: VV009043.D
 Acq: 19 Dec 2018 05:27

Tgt Ion: 83 Resp: 110010
 Ion Ratio Lower Upper
 83 100
 85 66.7 45.3 84.1
 127 9.4 7.2 10.8



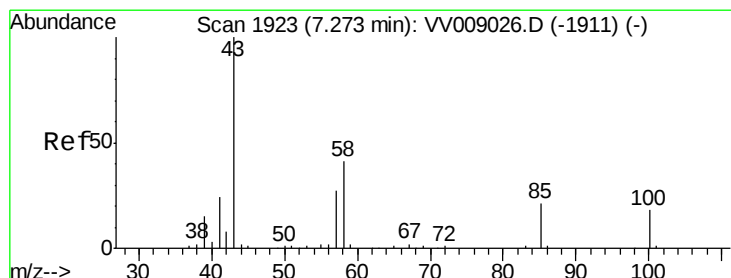
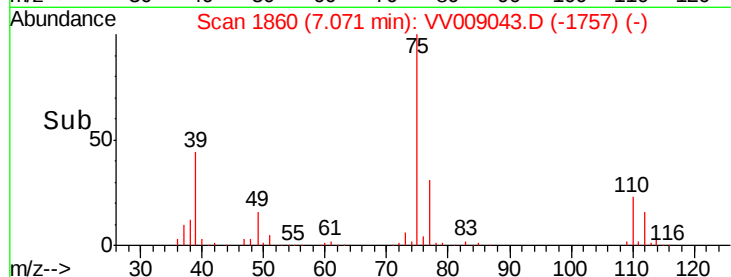
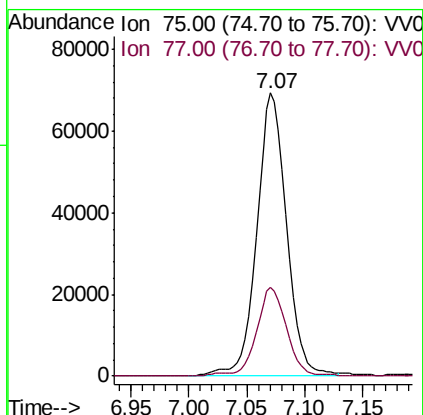
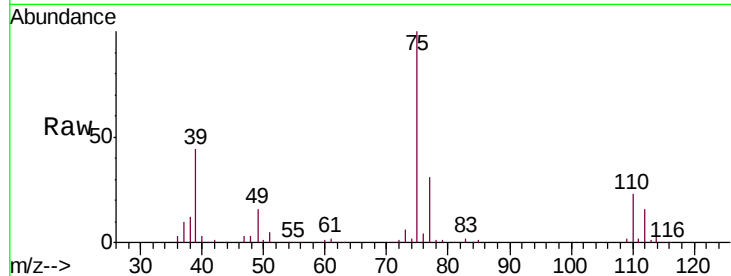


#42

cis-1,3-Dichloropropene
Concen: 24.414 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VV009043.D
Acq: 19 Dec 2018 05:27

Instrument :
MSVOA_V
ClientSampleId :
VSTD02566

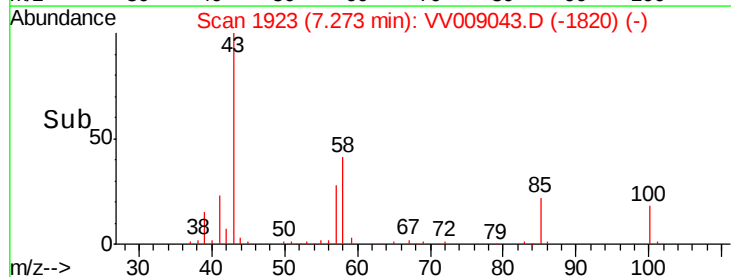
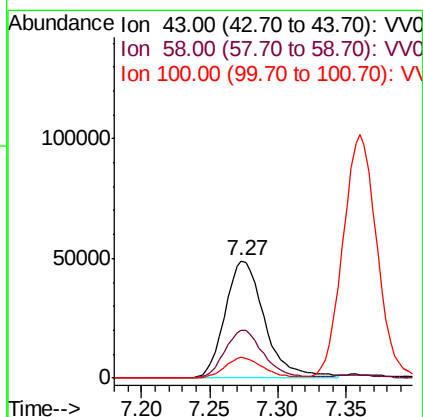
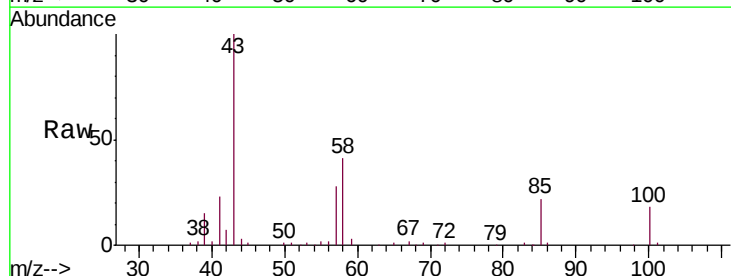
Tgt Ion: 75 Resp: 124182
Ion Ratio Lower Upper
75 100
77 31.4 21.3 39.6

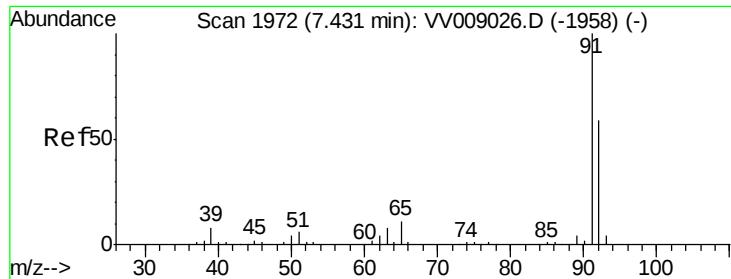


#43

4-Methyl-2-pentanone
Concen: 42.129 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VV009043.D
Acq: 19 Dec 2018 05:27

Tgt Ion: 43 Resp: 98929
Ion Ratio Lower Upper
43 100
58 39.8 32.2 48.4
100 16.9 13.8 20.8





#44

Toluene

Concen: 22.305 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

Instrument :

MSVOA_V

ClientSampleId :

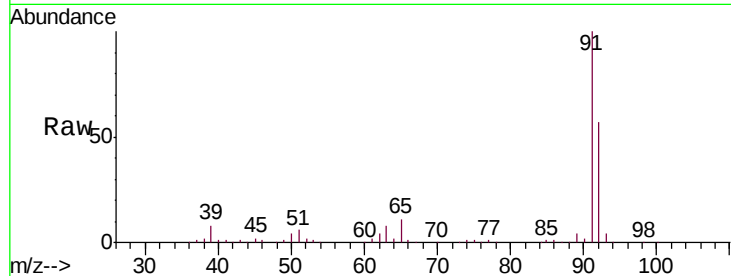
VSTD02566

Tgt Ion: 91 Resp: 338619

Ion Ratio Lower Upper

91 100

92 56.6 41.7 77.5



Abundance Ion 91.00 (90.70 to 91.70): VV009026.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV009026.D (-1958) (-)

7.43

200000

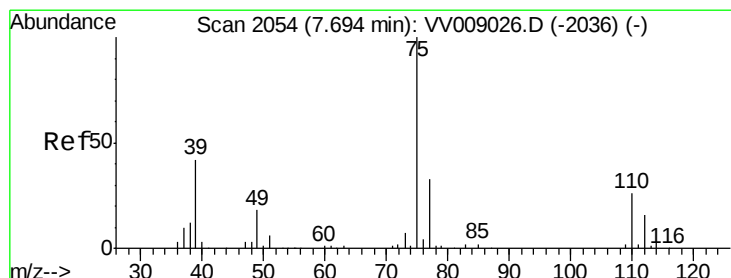
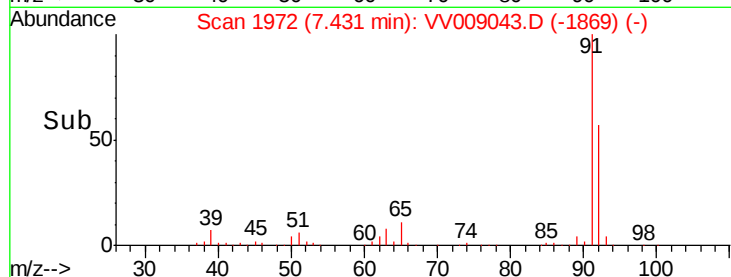
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 24.042 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV009043.D

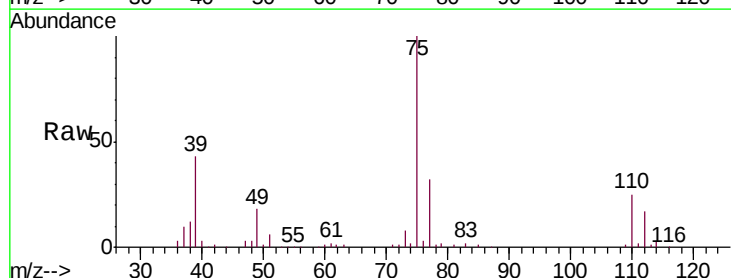
Acq: 19 Dec 2018 05:27

Tgt Ion: 75 Resp: 106603

Ion Ratio Lower Upper

75 100

77 31.7 23.6 43.8



Abundance Ion 75.00 (74.70 to 75.70): VV009026.D (-2036) (-)

Ion 77.00 (76.70 to 77.70): VV009026.D (-2036) (-)

7.69

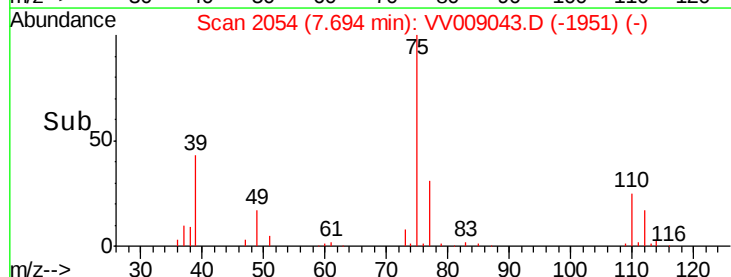
60000

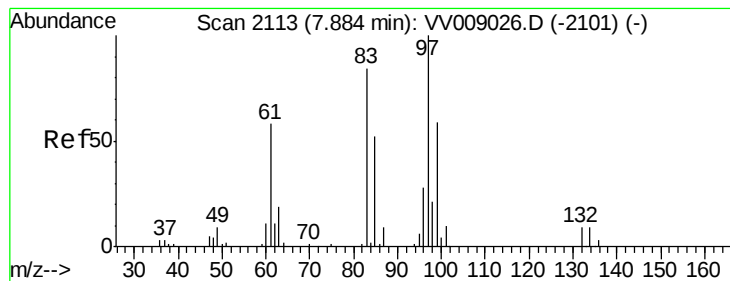
40000

20000

0

Time-->





#46

1,1,2-Trichloroethane

Concen: 24.182 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02566

Tgt Ion: 97 Resp: 70002

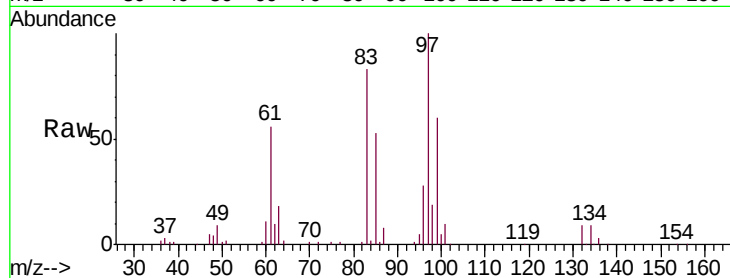
Ion Ratio Lower Upper

97 100

83 83.0 56.6 105.2

85 52.6 36.6 68.0

99 60.3 43.2 80.2



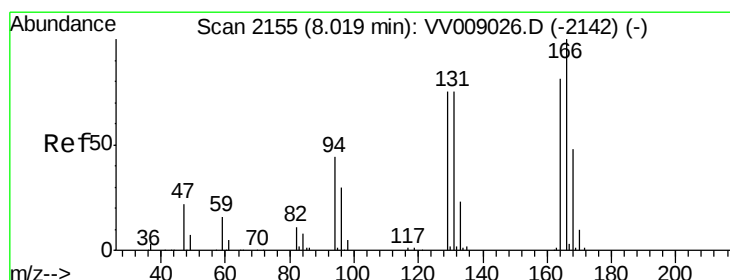
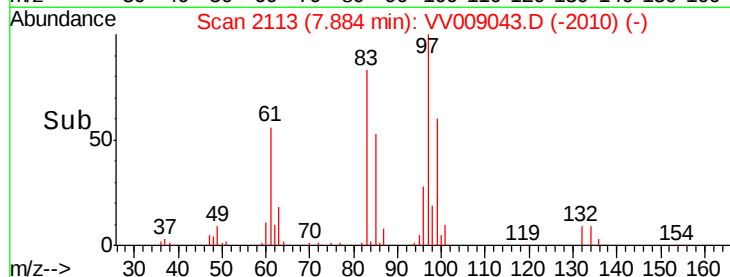
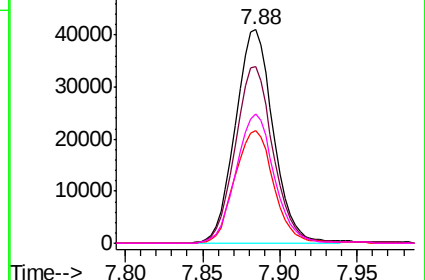
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47

Tetrachloroethene

Concen: 21.517 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

Tgt Ion:164 Resp: 76368

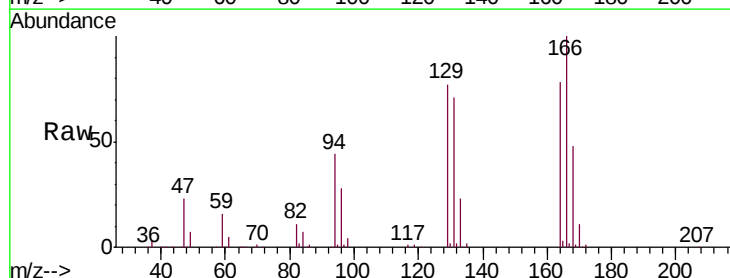
Ion Ratio Lower Upper

164 100

129 98.9 64.6 120.0

131 90.8 64.5 119.7

166 128.7 88.7 164.7



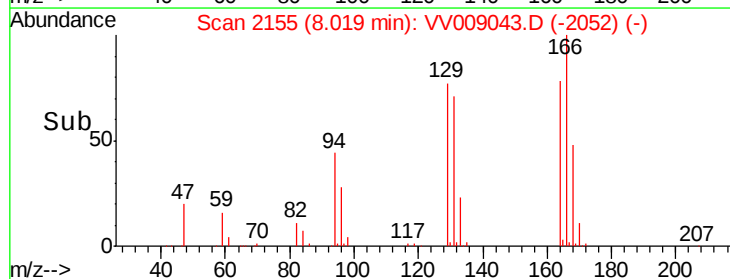
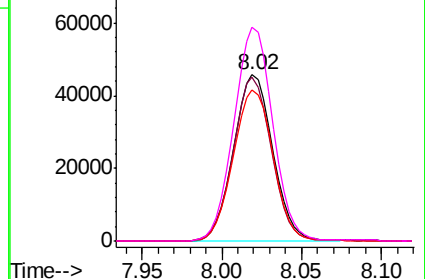
Abundance

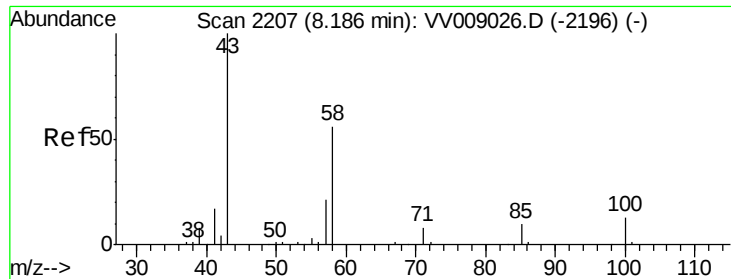
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

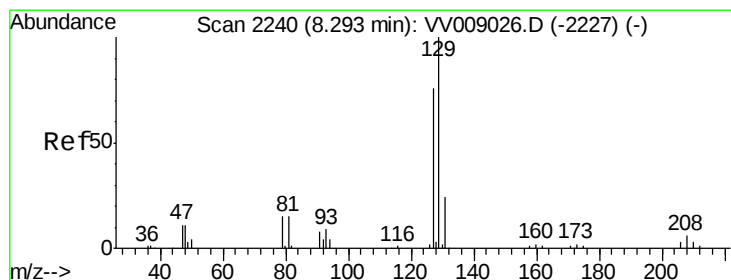
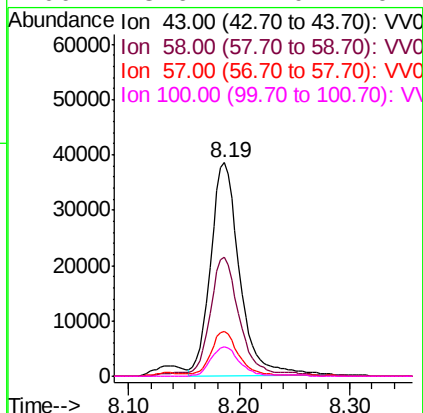
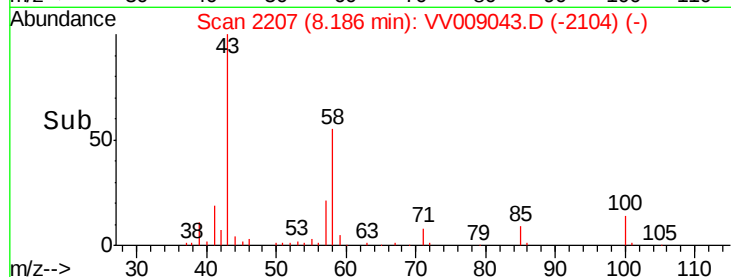
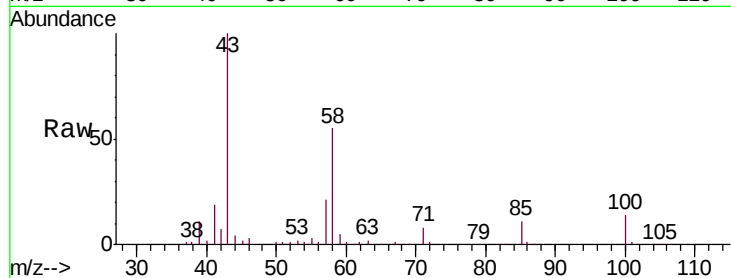




#49
2-Hexanone
Concen: 36.236 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV009043.D
Acq: 19 Dec 2018 05:27

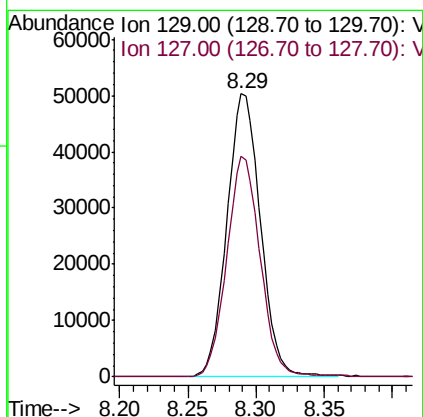
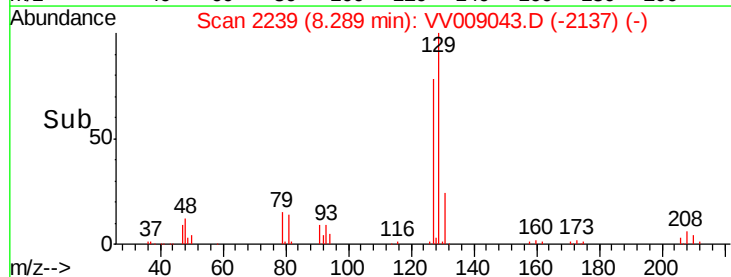
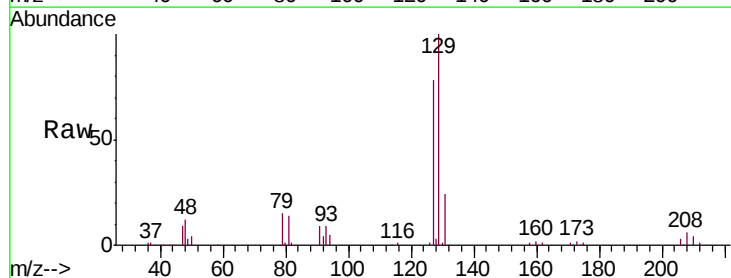
Instrument :
MSVOA_V
ClientSampleId :
VSTD02566

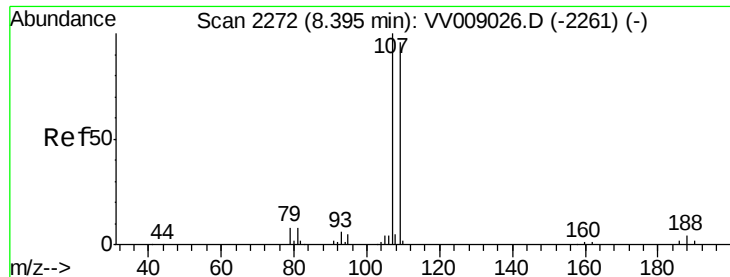
Tgt Ion: 43 Resp: 70396
Ion Ratio Lower Upper
43 100
58 50.3 43.9 65.9
57 18.9 15.7 23.5
100 13.6 11.0 16.4



#50
Dibromochloromethane
Concen: 25.983 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009043.D
Acq: 19 Dec 2018 05:27

Tgt Ion: 129 Resp: 86218
Ion Ratio Lower Upper
129 100
127 77.7 53.5 99.3





#51

1,2-Dibromoethane

Concen: 23.847 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02566

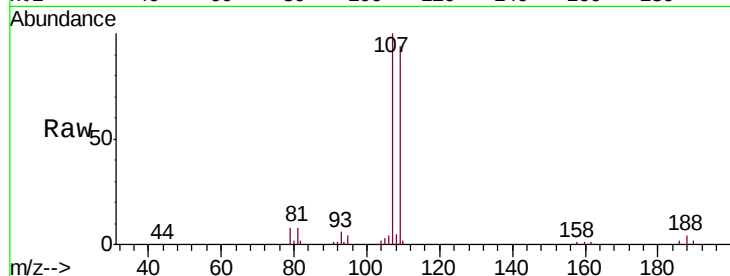
Tgt Ion:107 Resp: 69324

Ion Ratio Lower Upper

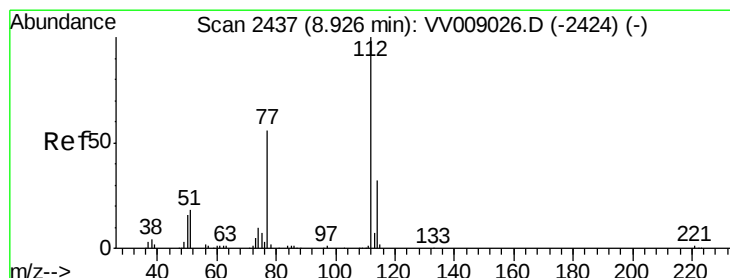
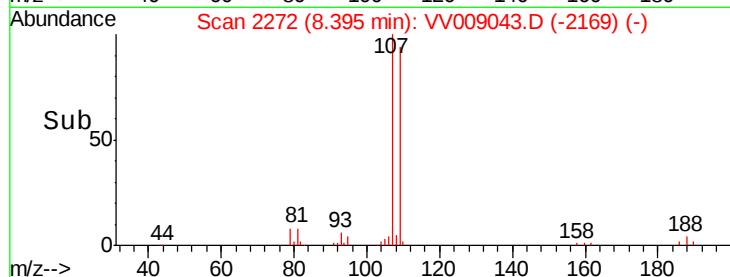
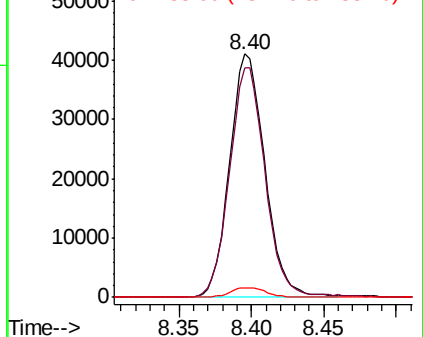
107 100

109 94.0 65.8 122.2

188 3.8 3.0 4.6



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 23.156 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

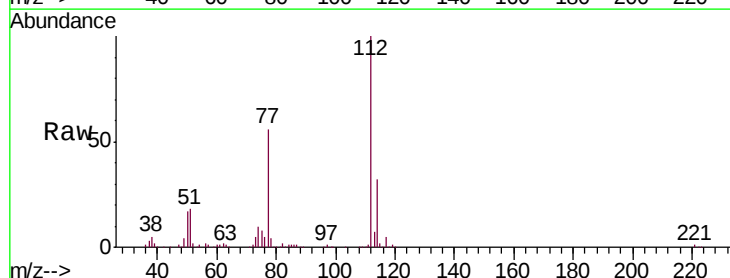
Tgt Ion:112 Resp: 228897

Ion Ratio Lower Upper

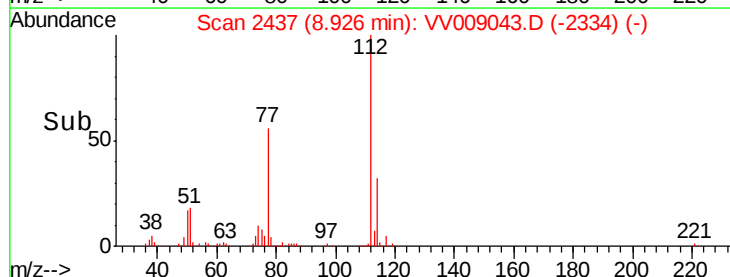
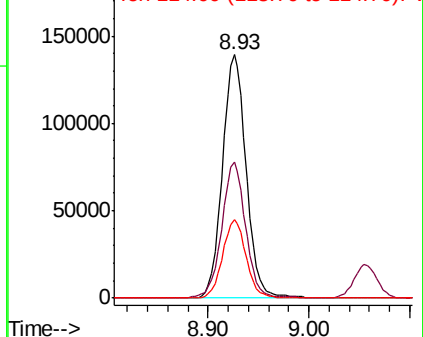
112 100

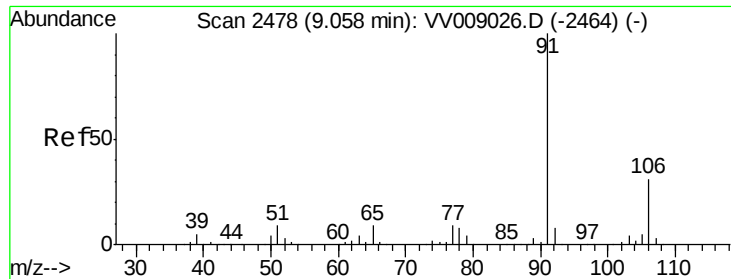
77 55.6 44.6 66.8

114 32.1 22.6 42.0



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 21.991 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

Instrument :

MSVOA_V

ClientSampleId :

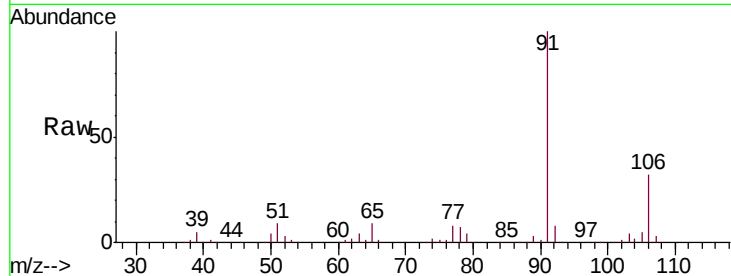
VSTD02566

Tgt Ion: 91 Resp: 362176

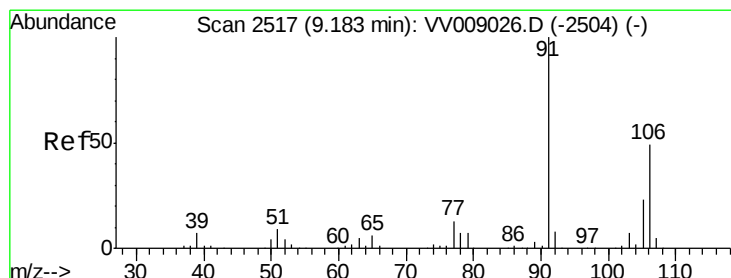
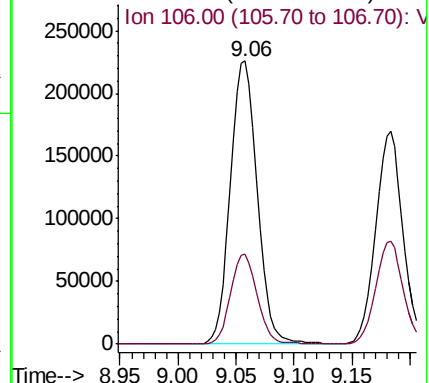
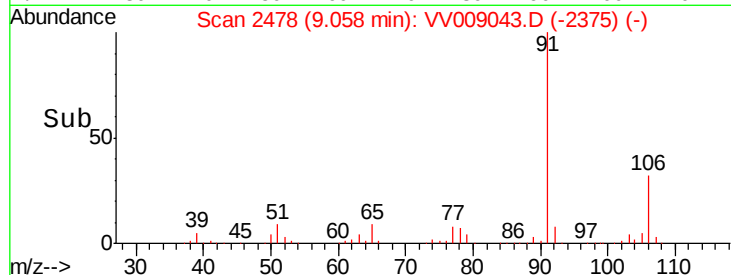
Ion Ratio Lower Upper

91 100

106 31.7 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VV009043.D (-2375) (-)



#54

m,p-Xylene

Concen: 21.978 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV009043.D

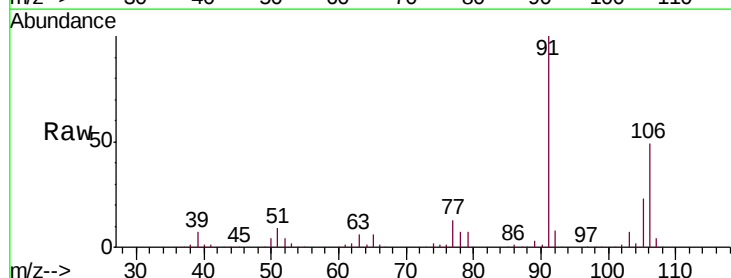
Acq: 19 Dec 2018 05:27

Tgt Ion: 106 Resp: 137052

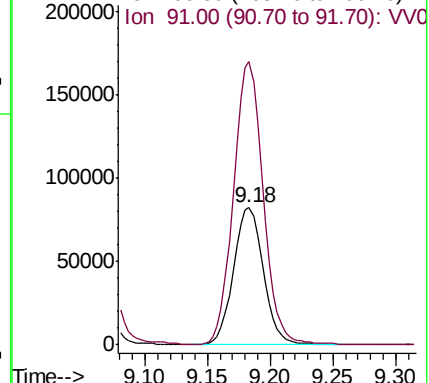
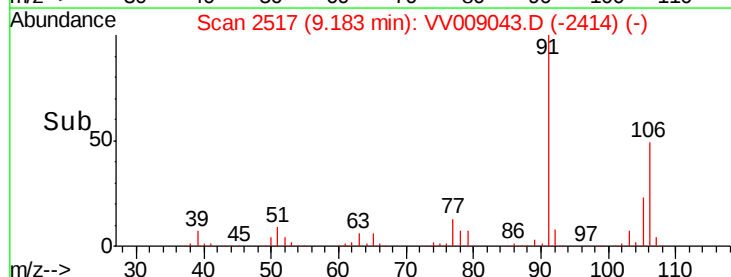
Ion Ratio Lower Upper

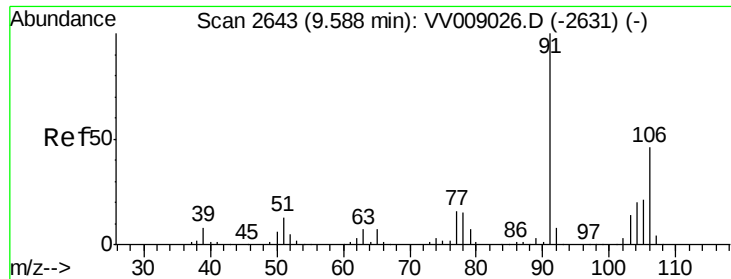
106 100

91 206.1 141.3 262.3



Abundance Ion 106.00 (105.70 to 106.70): VV009043.D (-2414) (-)

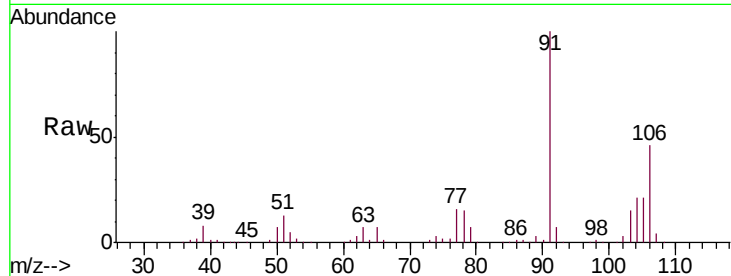




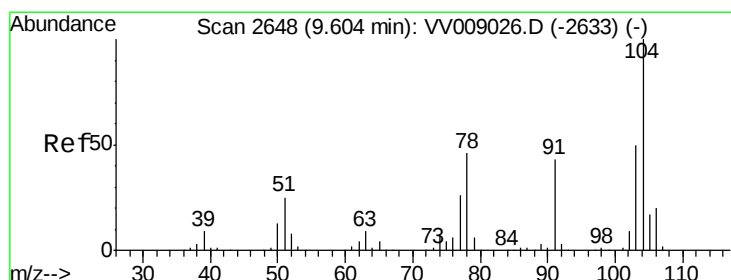
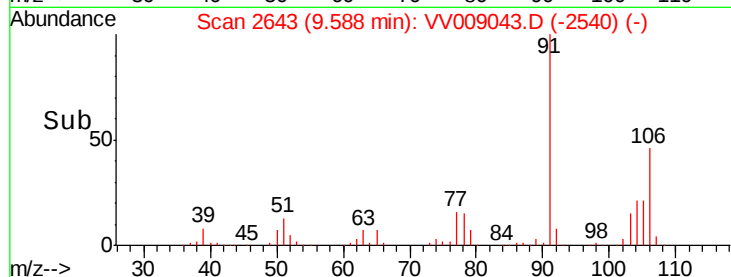
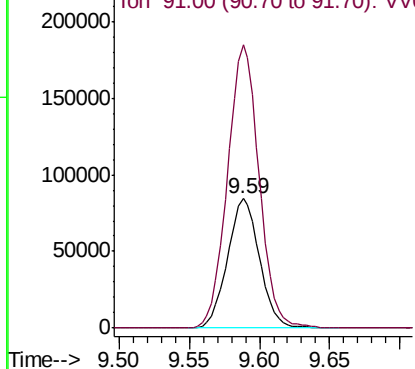
#55
o-xylene
Concen: 23.165 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV009043.D
Acq: 19 Dec 2018 05:27

Instrument :
MSVOA_V
ClientSampleId :
VSTD02566

Tgt Ion:106 Resp: 134217
Ion Ratio Lower Upper
106 100
91 218.8 148.3 275.5

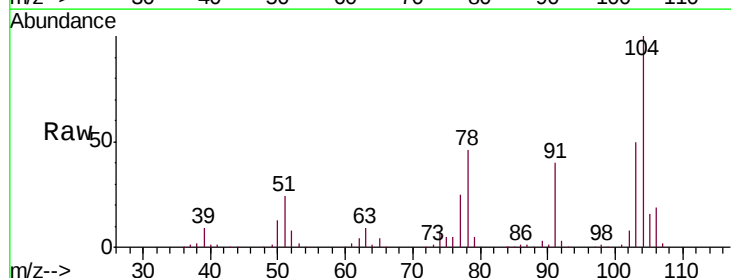


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

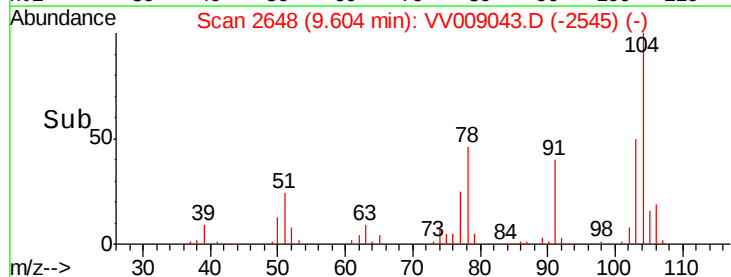
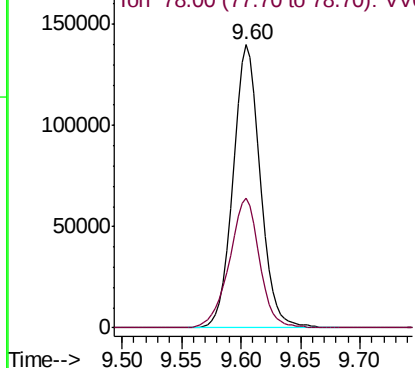


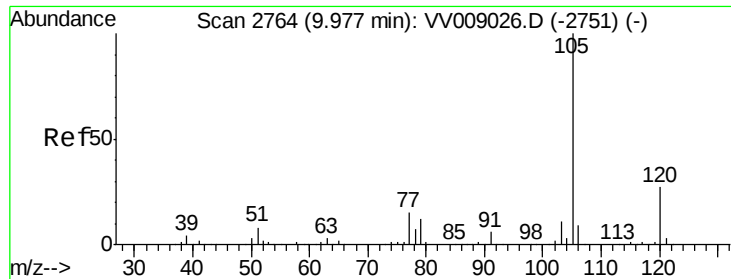
#56
Styrene
Concen: 23.759 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV009043.D
Acq: 19 Dec 2018 05:27

Tgt Ion:104 Resp: 222070
Ion Ratio Lower Upper
104 100
78 45.8 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: 21.425 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02566

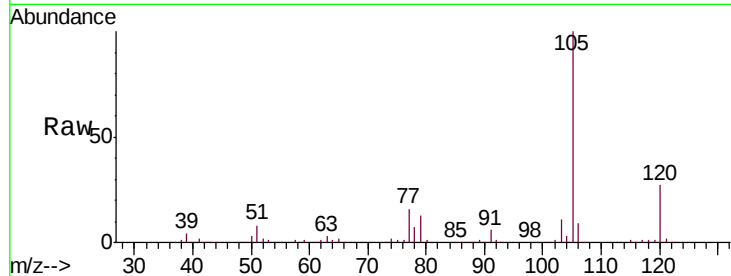
Tgt Ion:105 Resp: 337380

Ion Ratio Lower Upper

105 100

120 26.7 21.7 32.5

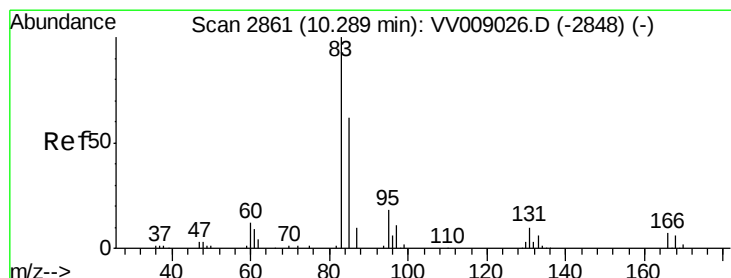
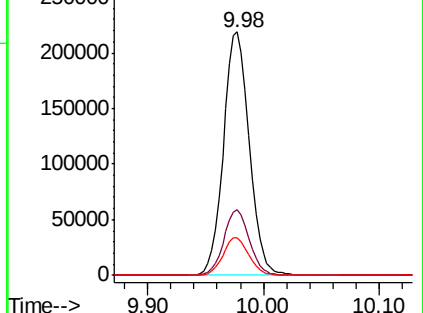
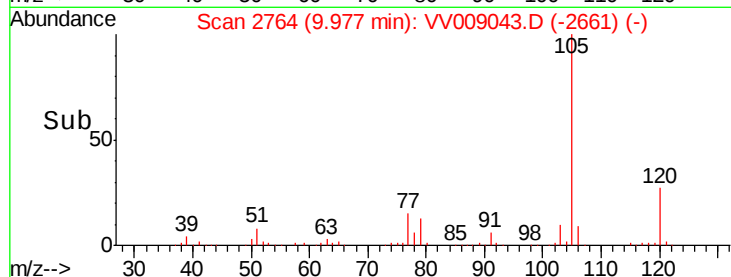
77 15.6 12.4 18.6



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: 22.842 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

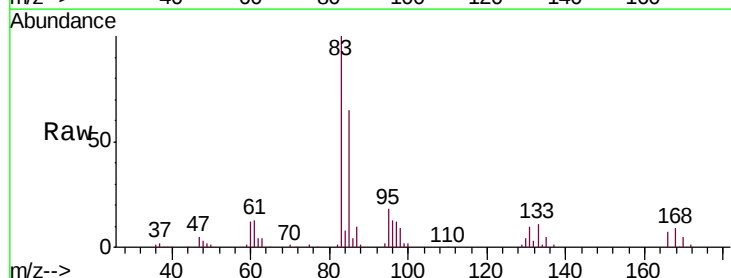
Tgt Ion: 83 Resp: 71484

Ion Ratio Lower Upper

83 100

85 65.0 44.3 82.3

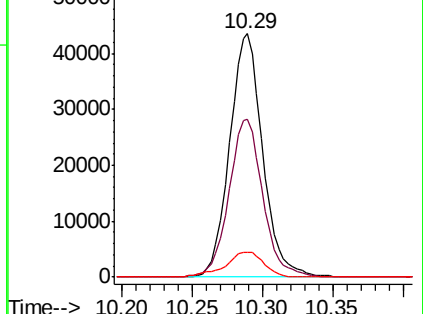
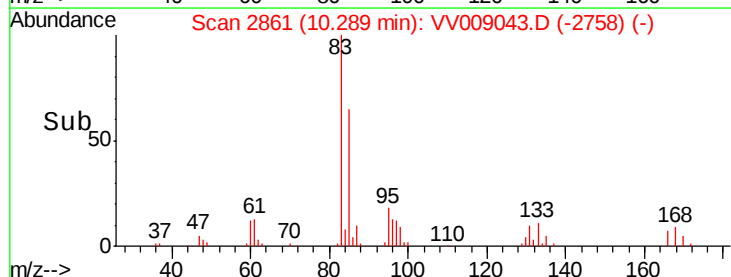
131 10.2 7.8 11.8

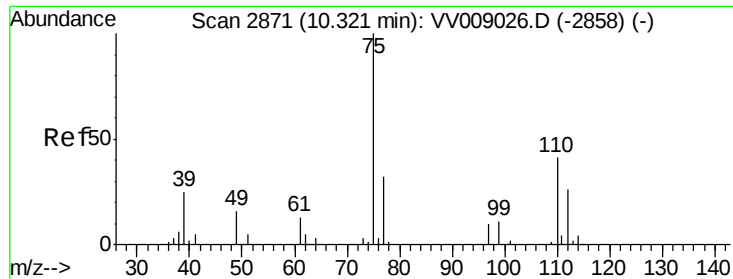


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

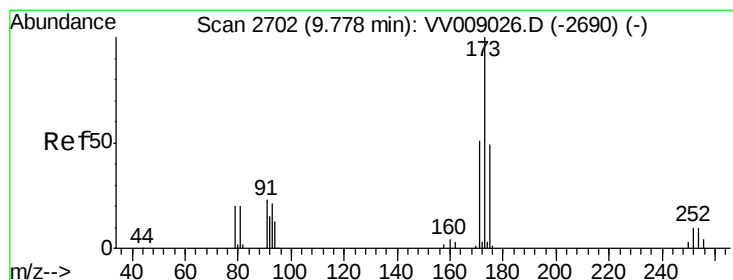
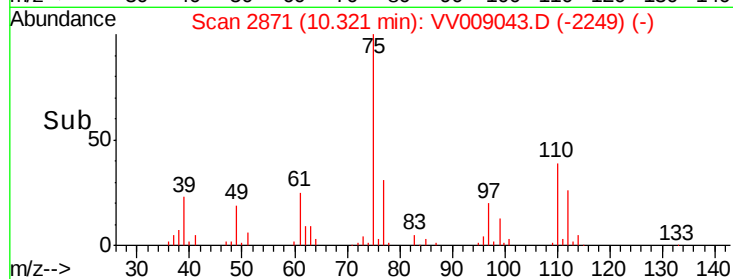
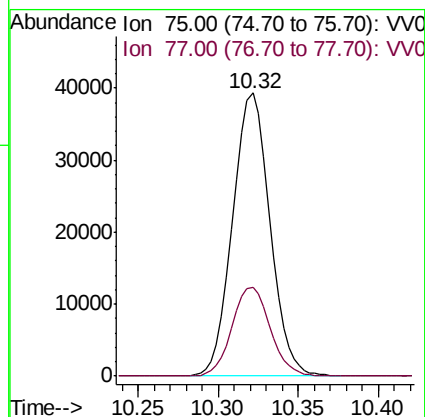
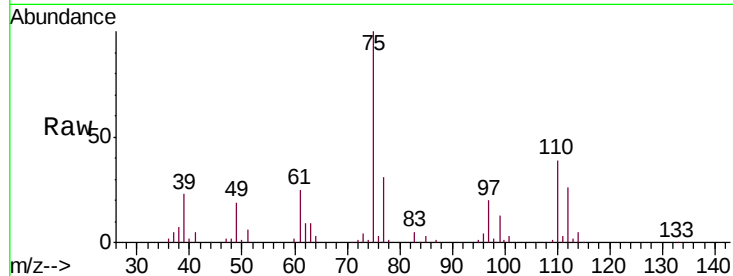




#59
 1,2,3-Trichloropropane
 Concen: 23.038 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VV009043.D
 Acq: 19 Dec 2018 05:27

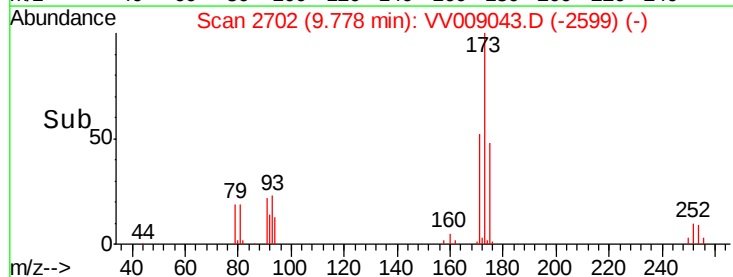
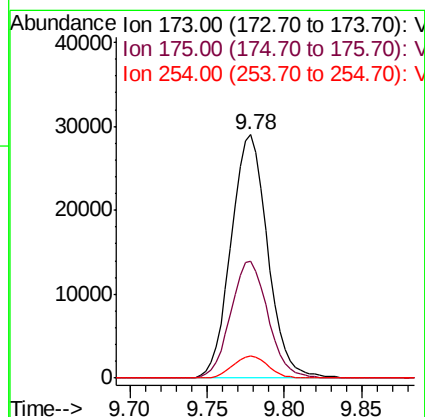
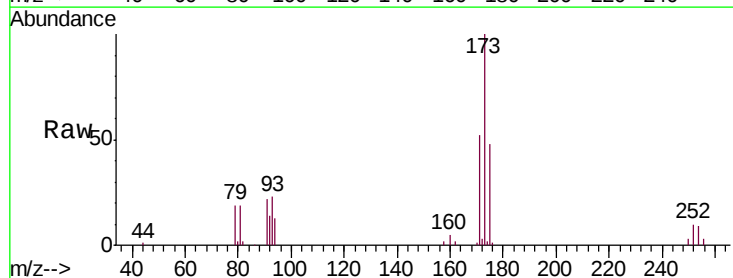
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02566

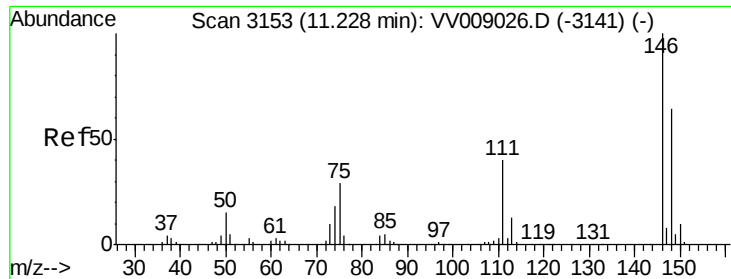
Tgt Ion: 75 Resp: 62382
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.6 38.4



#62
 Bromoform
 Concen: 22.001 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. -0.00 min
 Lab File: VV009043.D
 Acq: 19 Dec 2018 05:27

Tgt Ion: 173 Resp: 47680
 Ion Ratio Lower Upper
 173 100
 175 48.8 37.7 56.5
 254 8.8 7.1 10.7

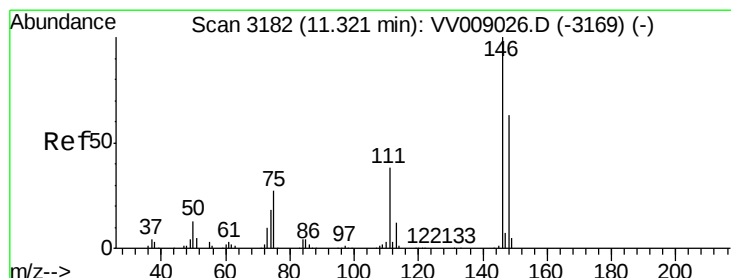
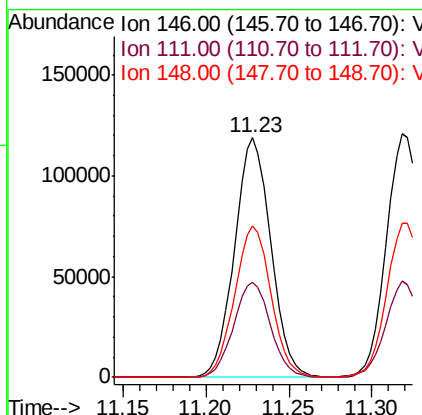
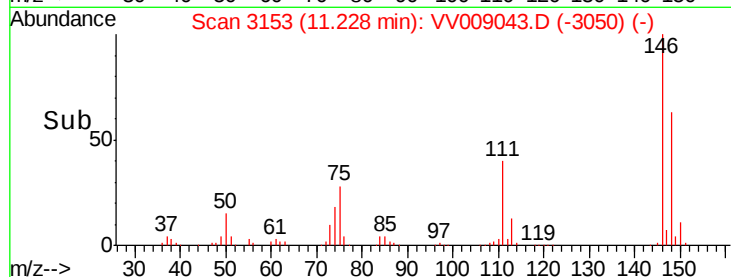
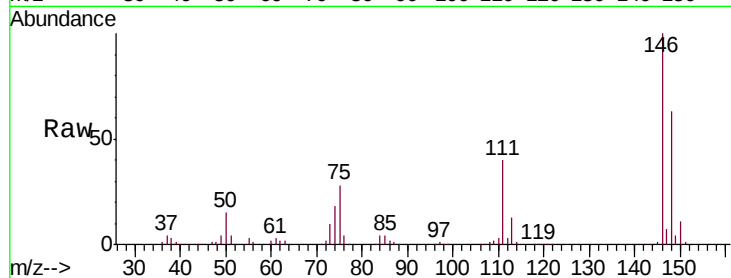




#63
 1,3-Dichlorobenzene
 Concen: 23.438 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009043.D
 Acq: 19 Dec 2018 05:27

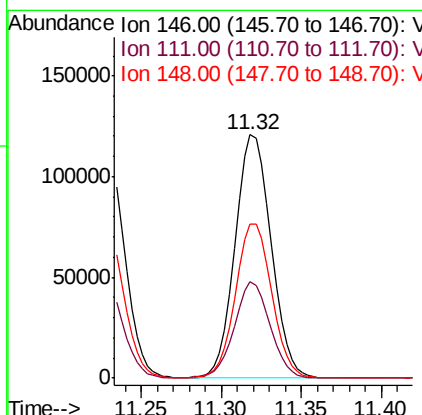
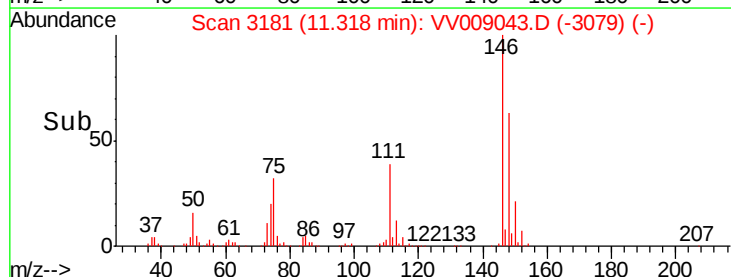
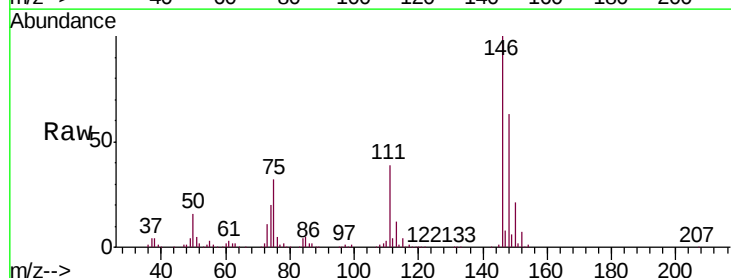
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02566

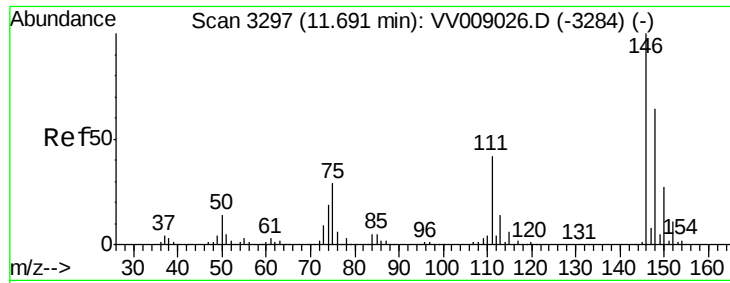
Tgt Ion:146 Resp: 181274
 Ion Ratio Lower Upper
 146 100
 111 39.9 27.5 51.1
 148 63.2 44.0 81.8



#64
 1,4-Dichlorobenzene
 Concen: 23.203 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV009043.D
 Acq: 19 Dec 2018 05:27

Tgt Ion:146 Resp: 184671
 Ion Ratio Lower Upper
 146 100
 111 39.4 26.8 49.8
 148 63.4 45.8 85.0





#65

1,2-Dichlorobenzene

Concen: 26.023 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02566

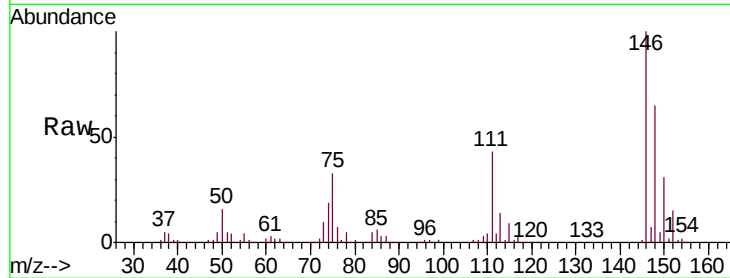
Tgt Ion: 146 Resp: 185549

Ion Ratio Lower Upper

146 100

111 42.6 34.2 51.4

148 64.7 51.0 76.6

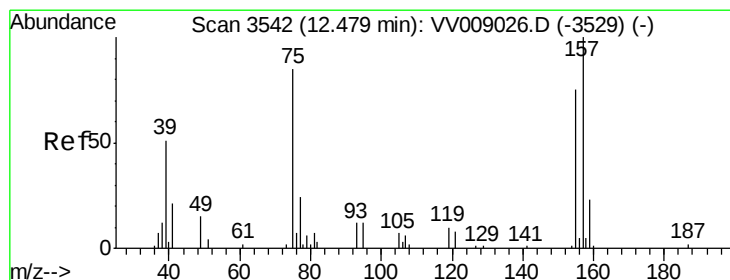
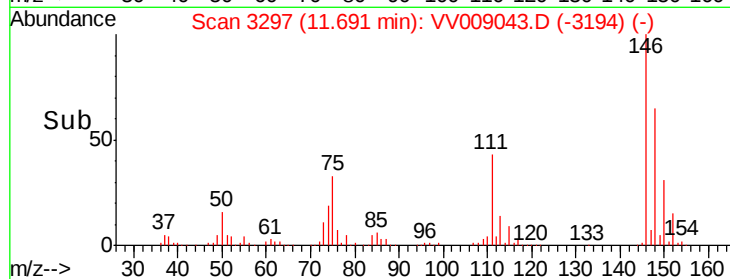
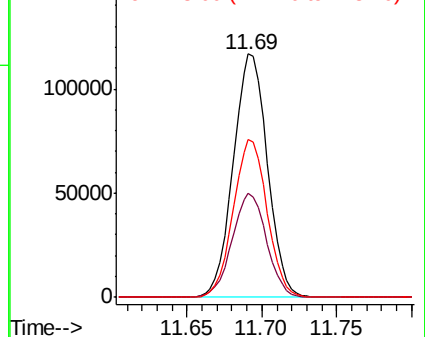


Abundance

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: 26.005 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

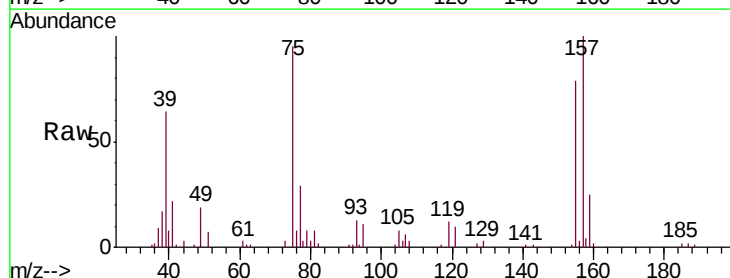
Tgt Ion: 75 Resp: 15191

Ion Ratio Lower Upper

75 100

157 105.0 95.8 143.6

155 82.7 71.4 107.2

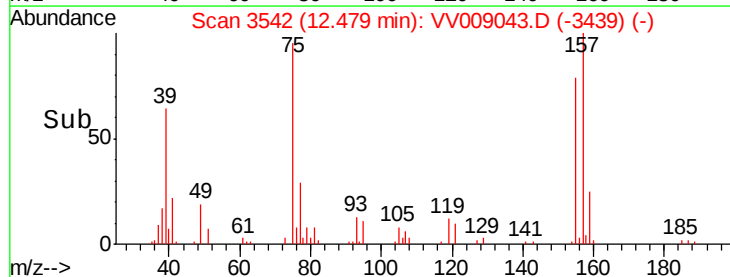
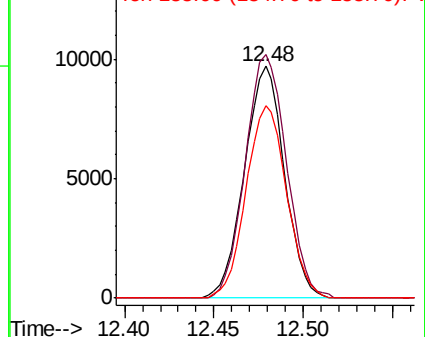


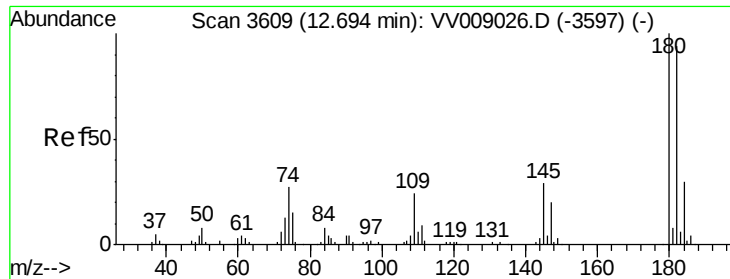
Abundance

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

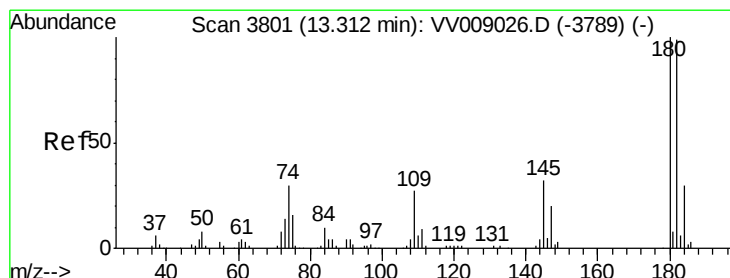
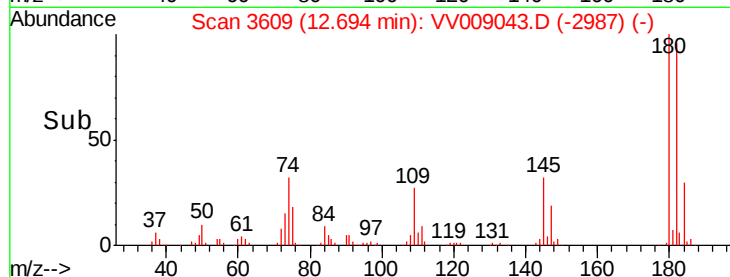
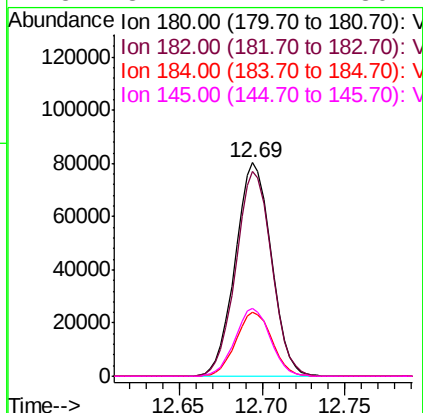
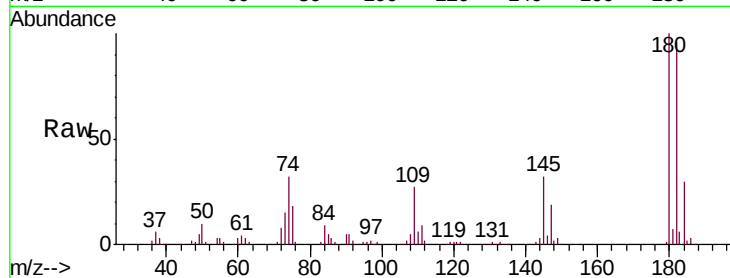




#67
 1,3,5-Trichlorobenzene
 Concen: 21.760 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009043.D
 Acq: 19 Dec 2018 05:27

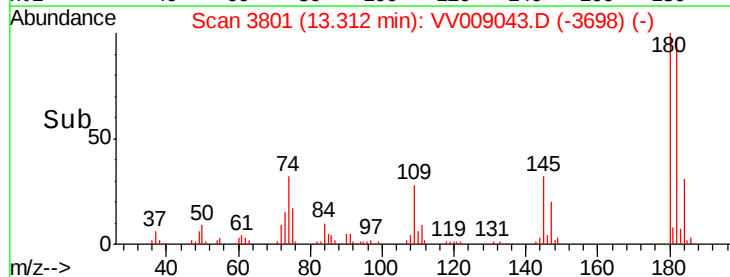
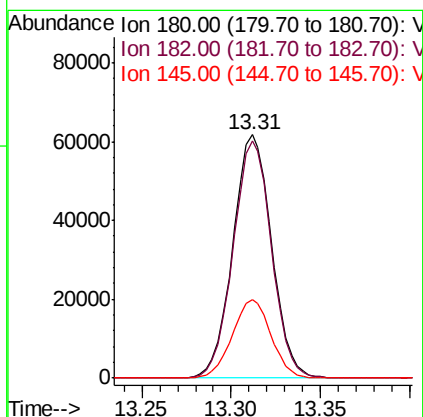
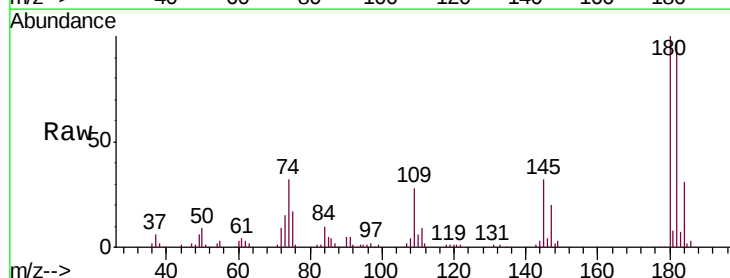
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02566

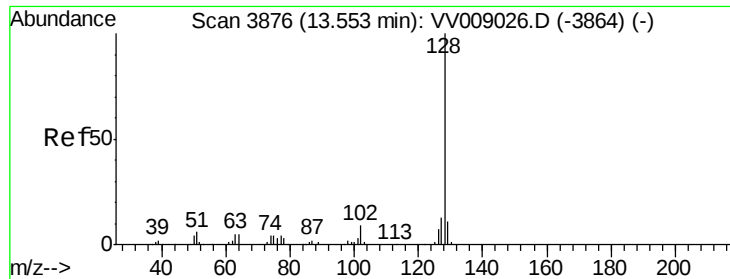
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	75.9	113.9
184	30.1	23.8	35.6
145	31.2	24.2	36.4



#68
 1,2,4-trichlorobenzene
 Concen: 23.929 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009043.D
 Acq: 19 Dec 2018 05:27

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.4	116.0
145	32.1	25.6	38.4





#69

Naphthalene

Concen: 25.505 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD02566

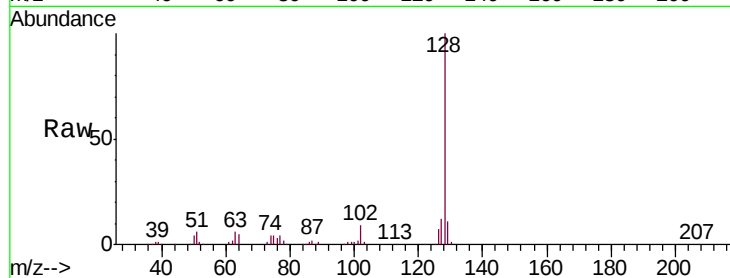
Tgt Ion:128 Resp: 171954

Ion Ratio Lower Upper

128 100

129 11.1 8.6 13.0

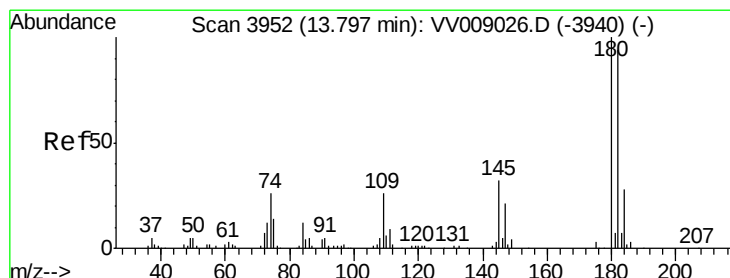
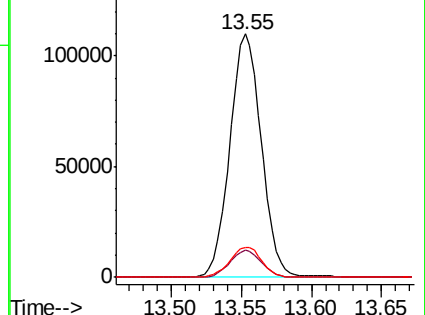
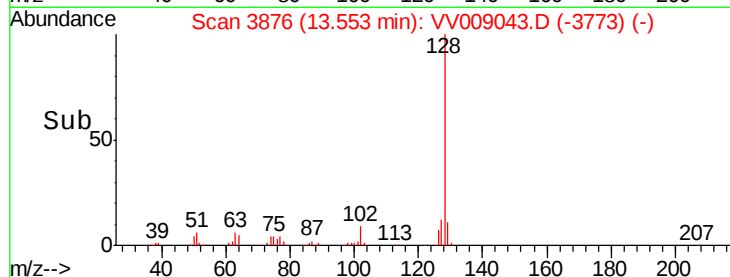
127 12.7 10.0 15.0



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: 23.993 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV009043.D

Acq: 19 Dec 2018 05:27

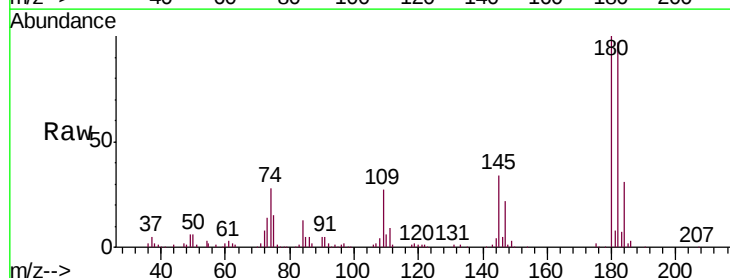
Tgt Ion:180 Resp: 86758

Ion Ratio Lower Upper

180 100

182 96.5 76.1 114.1

145 33.4 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

