

Data File : VV009919.D
Acq On : 27 Mar 2019 10:15
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02566

Quant Time: Mar 28 05:11:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM032619S.M
Quant Title : VOC Analysis
QLast Update : Wed Mar 27 01:42:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	189706	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	191424	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	92050	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	83959	21.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.24%
7) Chloroethane-d5	1.57	69	91923	22.11	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.44%
10) 1,1-Dichloroethene-d2	2.12	63	256859	24.39	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	97.56%
20) 2-Butanone-d5	3.94	46	34404	47.96	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.92%
24) Chloroform-d	4.40	84	120443	24.92	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.68%
26) 1,2-Dichloroethane-d4	5.08	65	65961	22.68	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	90.72%
29) Benzene-d6	5.09	84	234421	23.32	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.28%
33) 1,2-Dichloropropane-d6	6.11	67	68107	23.16	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	92.64%
37) Toluene-d8	7.36	98	220181	23.14	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.56%
38) trans-1,3-Dichloropropene-	7.66	79	26197	21.77	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	87.08%
39) 2-Hexanone-d5	8.14	63	26419	48.13	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.26%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	64096	22.01	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	88.04%
61) 1,2-Dichlorobenzene-d4	11.67	152	78770	22.48	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	89.92%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	74906	25.504	ug/L	100
3) Chloromethane	1.25	50	101951	30.036	ug/L	100
5) Vinyl chloride	1.32	62	108205	24.518	ug/L	98
6) Bromomethane	1.53	94	122052	27.727	ug/L	98
8) Chloroethane	1.59	64	82639	21.736	ug/L	96
9) Trichlorofluoromethane	1.76	101	265937	28.255	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	148019	27.057	ug/L	99
12) 1,1-Dichloroethene	2.13	96	125035	26.943	ug/L	95
13) Acetone	2.20	43	48336	44.503	ug/L	99
14) Carbon disulfide	2.31	76	169959	27.069	ug/L	98
15) Methyl Acetate	2.46	43	30903	24.291	ug/L	95
16) Methylene chloride	2.53	84	67088	21.475	ug/L	96
17) Methyl tert-butyl Ether	2.81	73	150167	24.799	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	65037	26.165	ug/L	97
19) 1,1-Dichloroethane	3.23	63	117988	25.956	ug/L	97
21) 2-Butanone	4.03	43	47424	49.027	ug/L	93
22) cis-1,2-Dichloroethene	3.96	96	69721	25.403	ug/L	97

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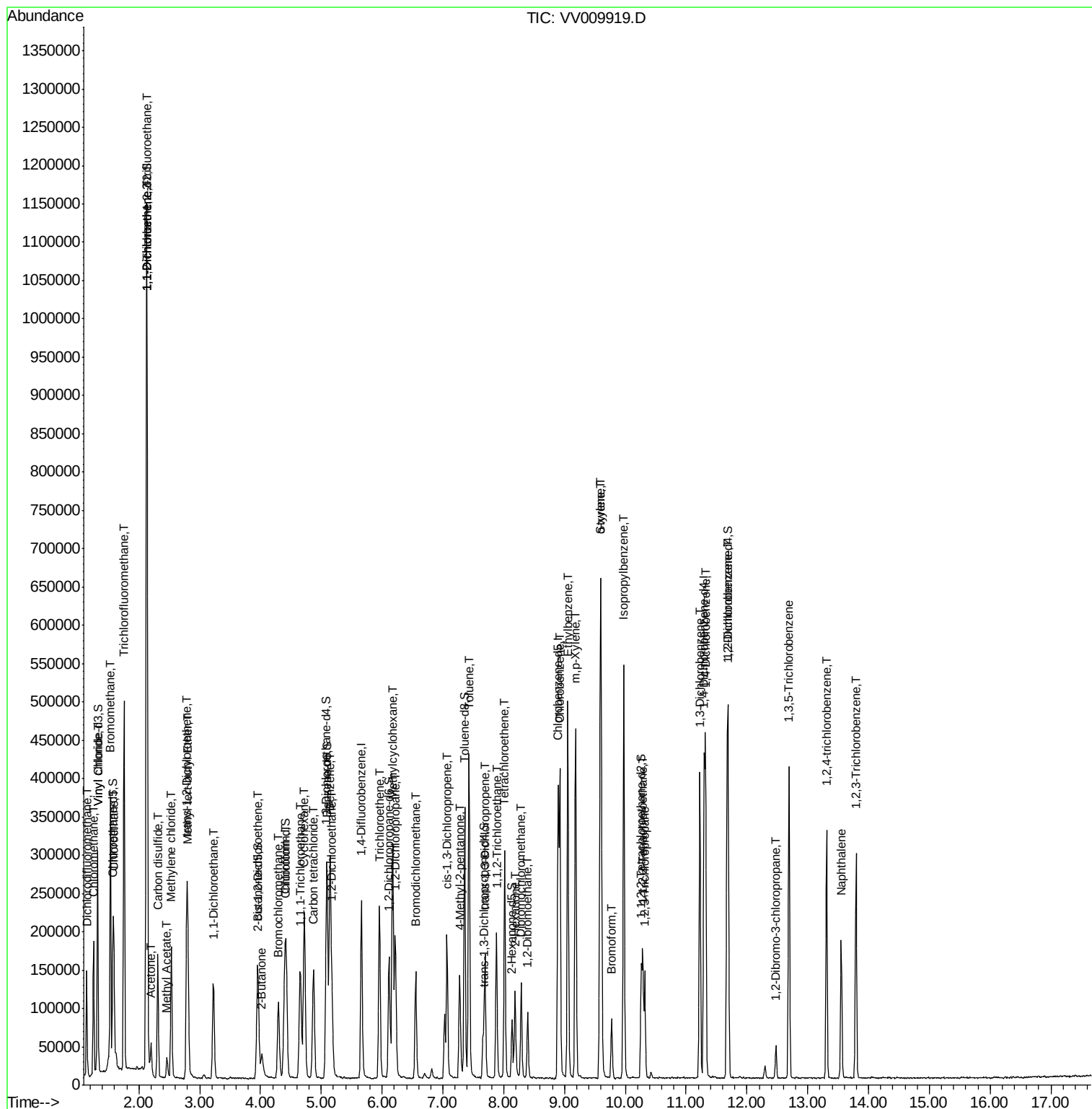
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	31441	24.809	ug/L	95
25) Chloroform	4.42	83	124697	24.810	ug/L	98
27) 1,2-Dichloroethane	5.17	62	84181	23.639	ug/L	96
30) Cyclohexane	4.72	56	108153	28.021	ug/L	98
31) 1,1,1-Trichloroethane	4.65	97	106082	27.691	ug/L	99
32) Carbon tetrachloride	4.87	117	94346	28.334	ug/L	95
34) Benzene	5.14	78	273046	25.975	ug/L	100
35) Trichloroethene	5.96	95	68792	24.810	ug/L	97
36) Methylcyclohexane	6.17	83	119705	27.516	ug/L	97
40) 1,2-Dichloropropane	6.22	63	67195	25.582	ug/L #	93
41) Bromodichloromethane	6.55	83	83274	25.492	ug/L	96
42) cis-1,3-Dichloropropene	7.07	75	99625	26.014	ug/L	98
43) 4-Methyl-2-pentanone	7.27	43	95120	50.746	ug/L	99
44) Toluene	7.43	91	297946	25.711	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	81763	26.082	ug/L	94
46) 1,1,2-Trichloroethane	7.88	97	53136	24.459	ug/L	98
47) Tetrachloroethene	8.02	164	56852	25.984	ug/L	95
49) 2-Hexanone	8.19	43	71553	56.481	ug/L	98
50) Dibromochloromethane	8.29	129	55701	24.728	ug/L	88
51) 1,2-Dibromoethane	8.40	107	50326	23.858	ug/L #	91
52) Chlorobenzene	8.92	112	190530	24.697	ug/L	97
53) Ethylbenzene	9.05	91	334009	26.129	ug/L	100
54) m,p-Xylene	9.18	106	124941	24.885	ug/L	89
55) o-xylene	9.59	106	123484	25.339	ug/L	97
56) Styrene	9.60	104	206741	24.698	ug/L	95
57) Isopropylbenzene	9.97	105	331085	26.188	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	69867	23.860	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	48230	22.821	ug/L	99
62) Bromoform	9.77	173	28107	23.739	ug/L	98
63) 1,3-Dichlorobenzene	11.23	146	142815	25.084	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	147966	23.914	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	136784	24.344	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	8069	22.976	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	107755	26.650	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	83421	27.969	ug/L	99
69) Naphthalene	13.55	128	132644	26.754	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	73751	26.005	ug/L	98

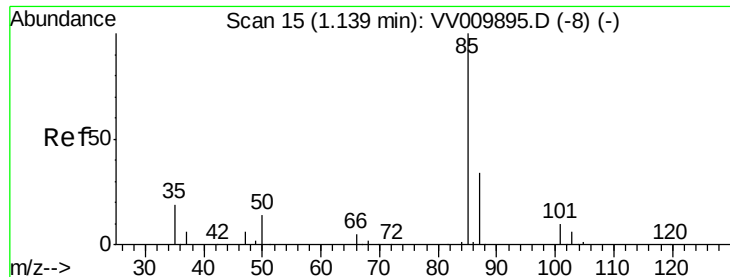
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 25.504 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

Instrument :

MSVOA_V

ClientSampleId :

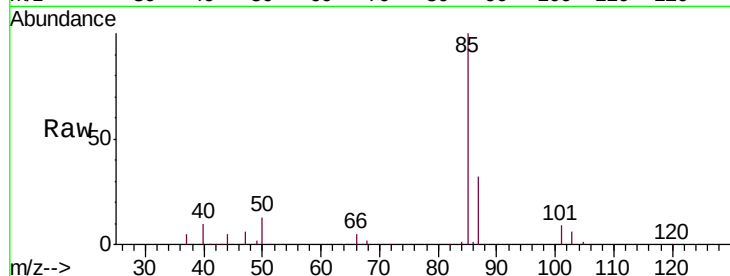
VSTD02566

Tgt Ion: 85 Resp: 74906

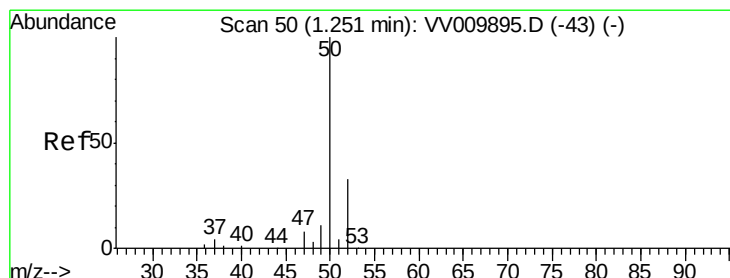
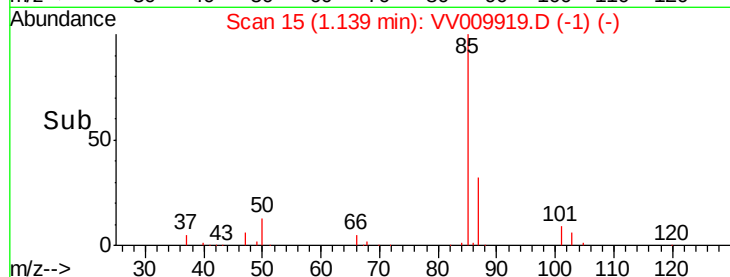
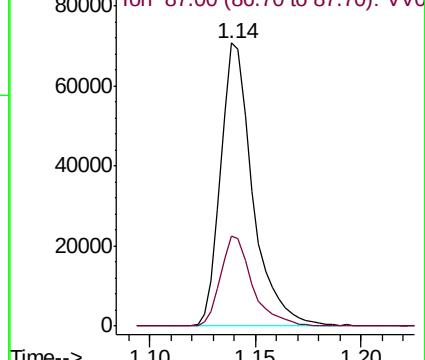
Ion Ratio Lower Upper

85 100

87 31.5 22.2 41.2



Abundance Ion 85.00 (84.70 to 85.70): VV009919.D (-8) (-)



#3

Chloromethane

Concen: 30.036 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV009919.D

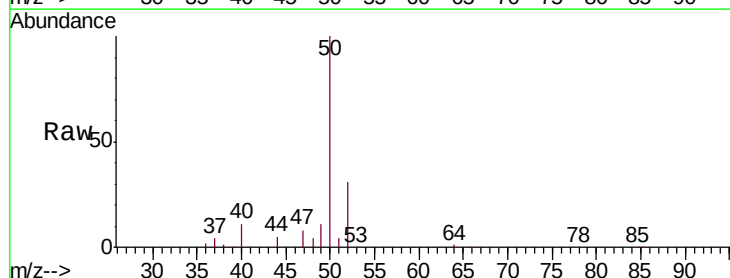
Acq: 27 Mar 2019 10:15

Tgt Ion: 50 Resp: 101951

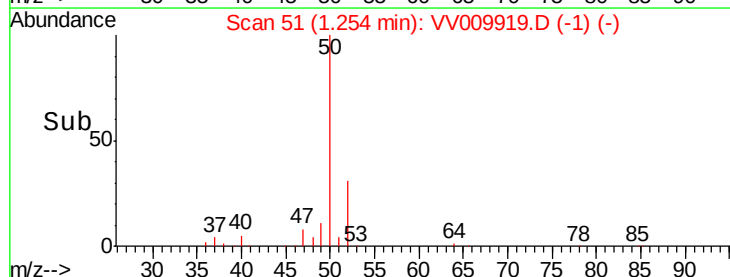
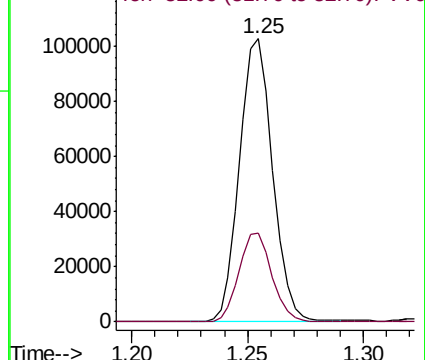
Ion Ratio Lower Upper

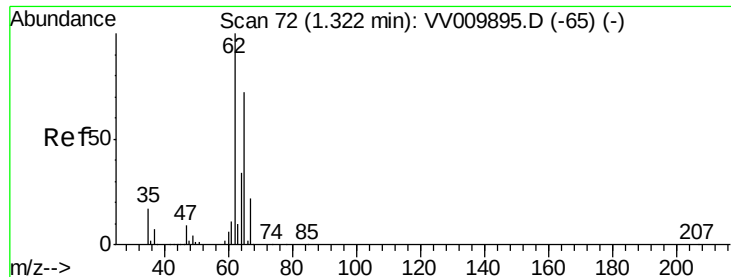
50 100

52 31.2 21.8 40.6



Abundance Ion 50.00 (49.70 to 50.70): VV009919.D (-43) (-)





#5

Vinyl chloride

Concen: 24.518 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

Instrument :

MSVOA_V

ClientSampleId :

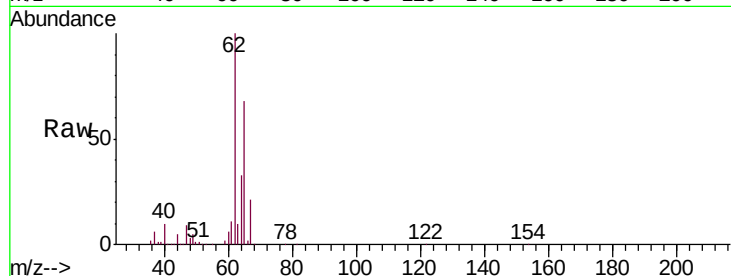
VSTD02566

Tgt Ion: 62 Resp: 108205

Ion Ratio Lower Upper

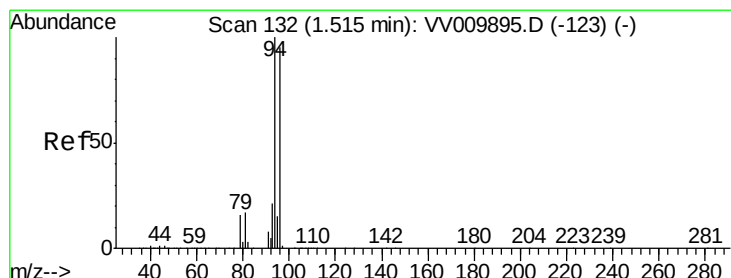
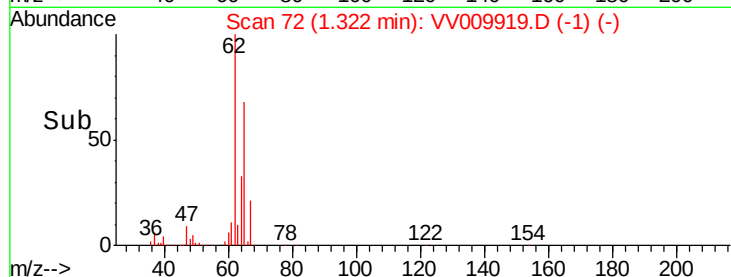
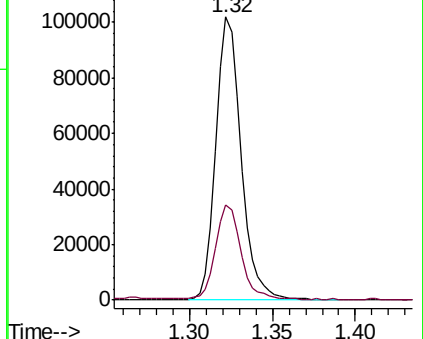
62 100

64 33.5 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VV009919.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV009919.D (-65) (-)



#6

Bromomethane

Concen: 27.727 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.02 min

Lab File: VV009919.D

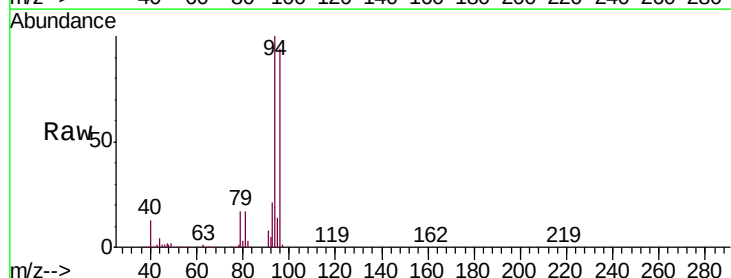
Acq: 27 Mar 2019 10:15

Tgt Ion: 94 Resp: 122052

Ion Ratio Lower Upper

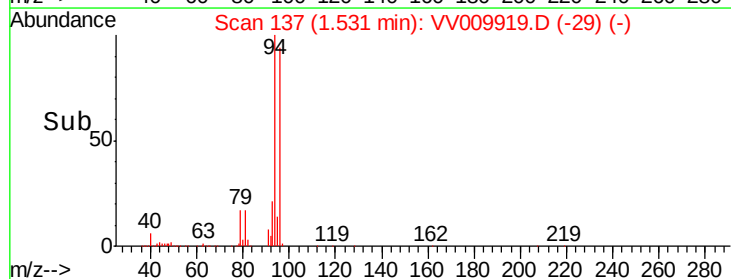
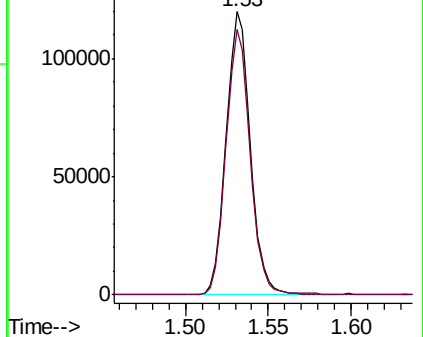
94 100

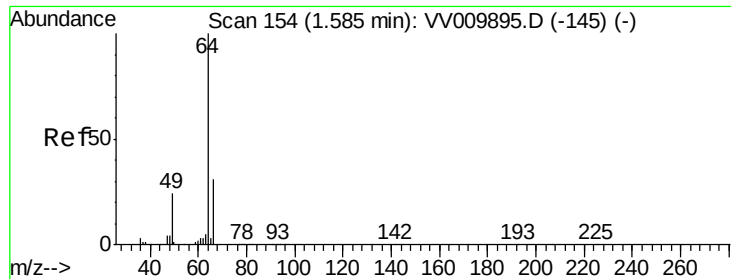
96 92.9 9.4 179.4



Abundance Ion 94.00 (93.70 to 94.70): VV009919.D (-123) (-)

Ion 96.00 (95.70 to 96.70): VV009919.D (-123) (-)

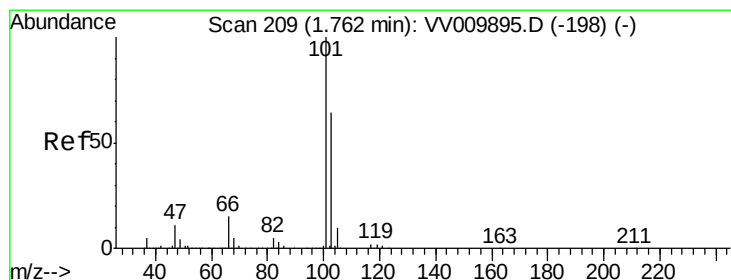
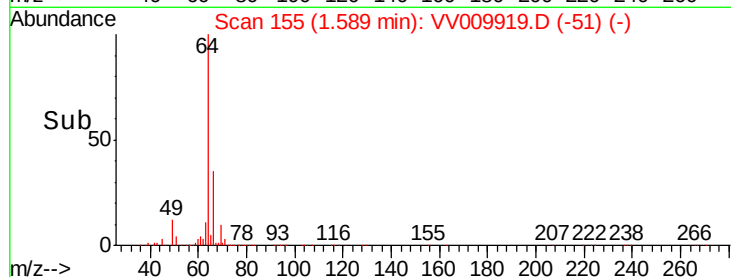
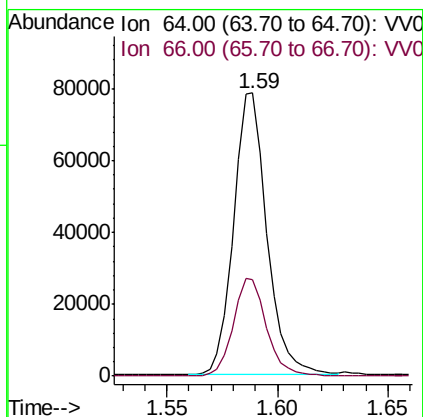
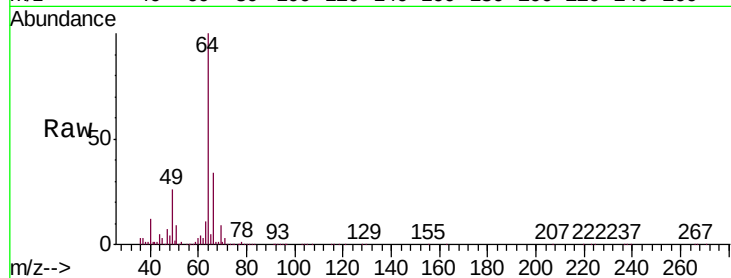




#8
 Chloroethane
 Concen: 21.736 ug/L
 RT: 1.59 min Scan# 155
 Delta R.T. 0.00 min
 Lab File: VV009919.D
 Acq: 27 Mar 2019 10:15

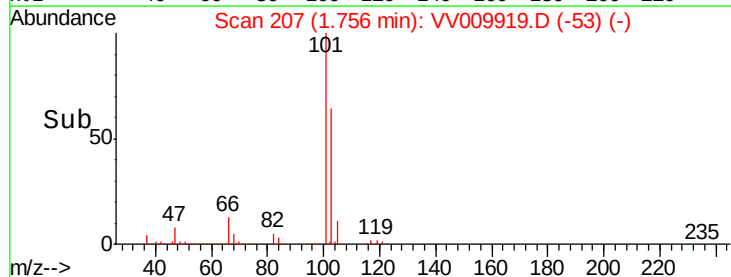
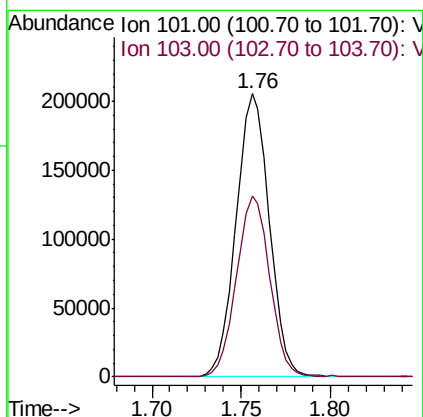
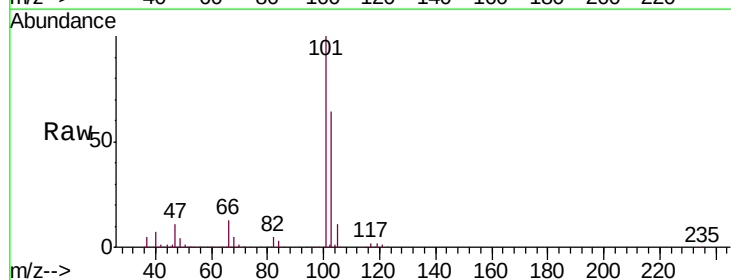
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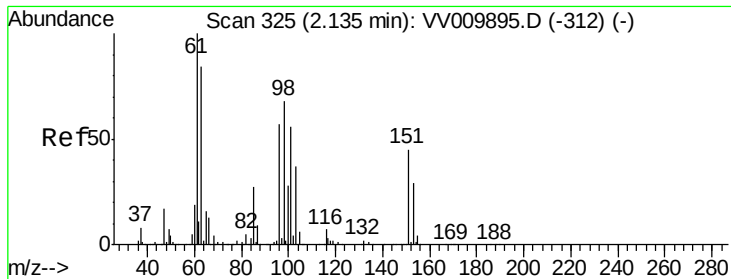
Tgt Ion: 64 Resp: 82639
 Ion Ratio Lower Upper
 64 100
 66 34.2 22.3 41.5



#9
 Trichlorofluoromethane
 Concen: 28.255 ug/L
 RT: 1.76 min Scan# 207
 Delta R.T. -0.01 min
 Lab File: VV009919.D
 Acq: 27 Mar 2019 10:15

Tgt Ion: 101 Resp: 265937
 Ion Ratio Lower Upper
 101 100
 103 63.8 45.1 83.9





#11

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

Concen: 27.057 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

Instrument :

MSVOA_V

ClientSampleId :

VSTD02566

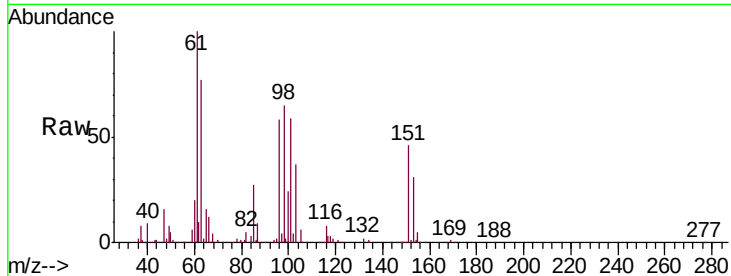
Tgt Ion: 101 Resp: 148019

Ion Ratio Lower Upper

101 100

85 45.7 36.9 55.3

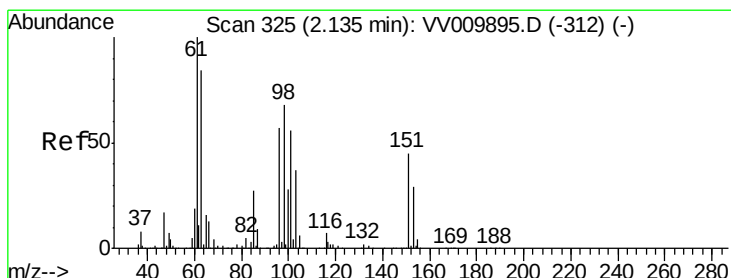
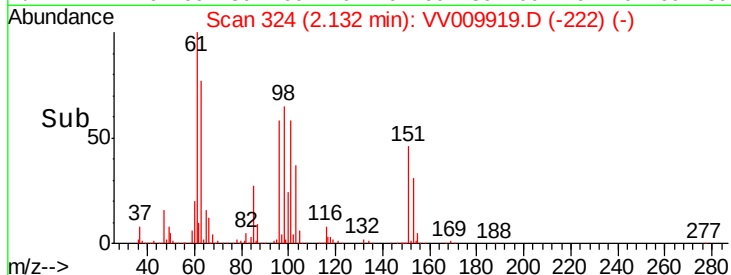
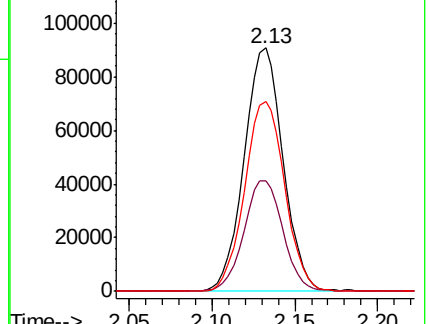
151 80.5 63.6 95.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 26.943 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

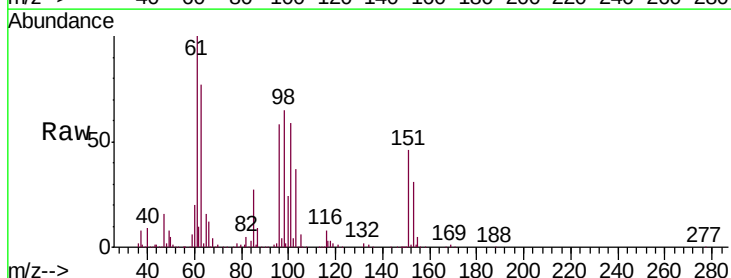
Tgt Ion: 96 Resp: 125035

Ion Ratio Lower Upper

96 100

61 172.8 124.3 230.8

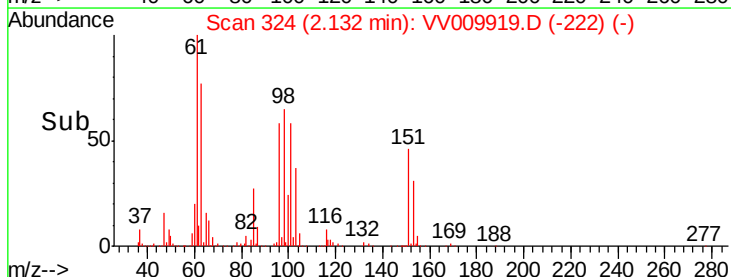
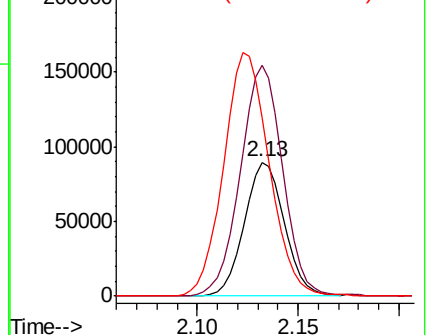
63 133.2 88.2 163.8

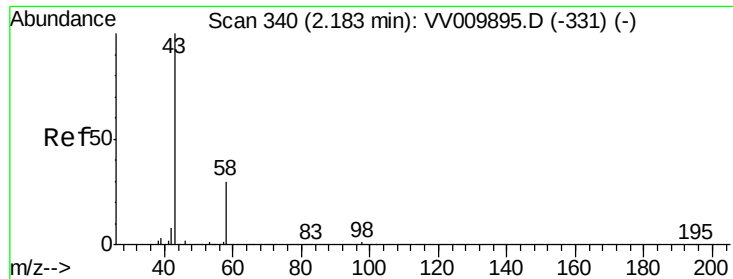


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 44.503 ug/L

RT: 2.20 min Scan# 345

Delta R.T. 0.02 min

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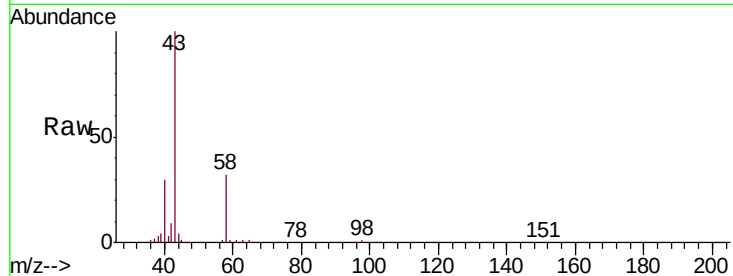
VSTD02566

Tgt Ion: 43 Resp: 48336

Ion Ratio Lower Upper

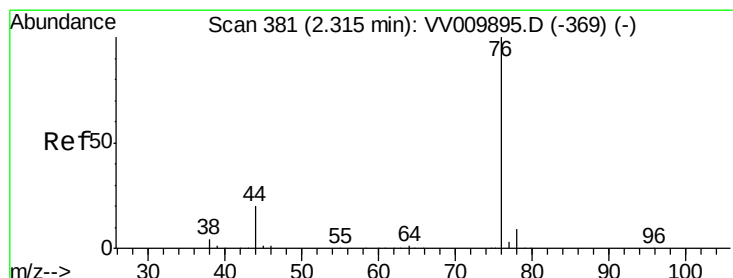
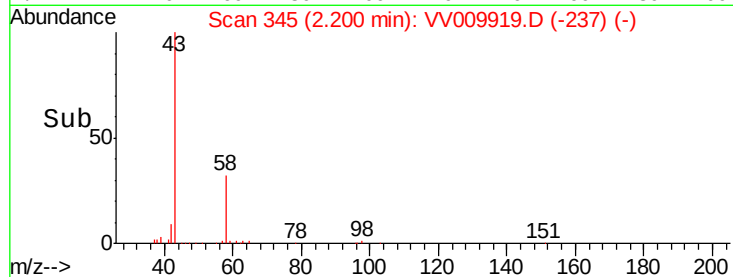
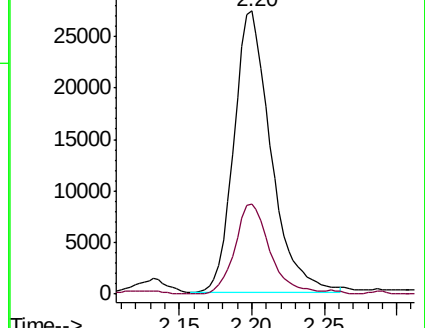
43 100

58 30.4 0.0 59.4



Abundance Ion 43.00 (42.70 to 43.70): VV009895.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV009895.D (-331) (-)



#14

Carbon disulfide

Concen: 27.069 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV009919.D

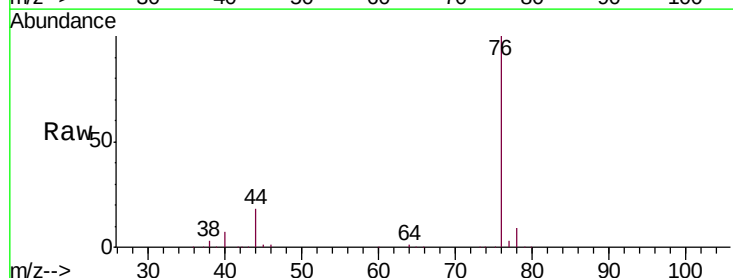
Acq: 27 Mar 2019 10:15

Tgt Ion: 76 Resp: 169959

Ion Ratio Lower Upper

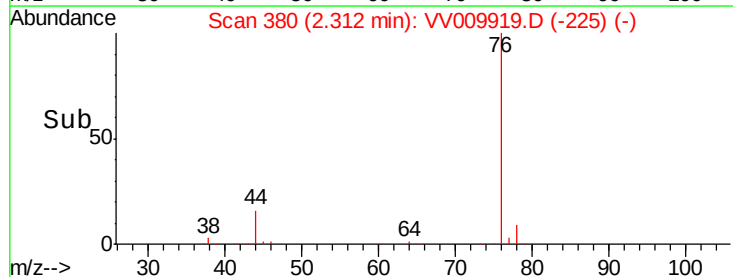
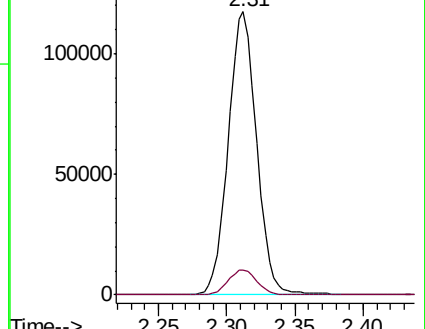
76 100

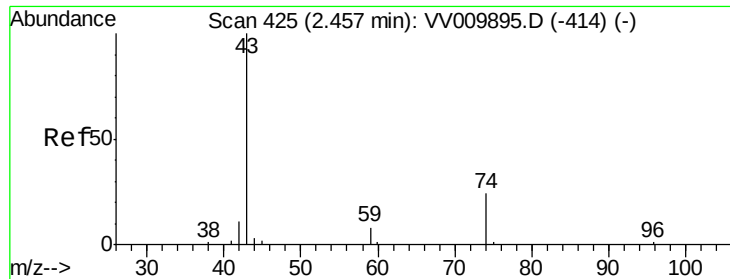
78 8.8 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VV009895.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV009895.D (-369) (-)

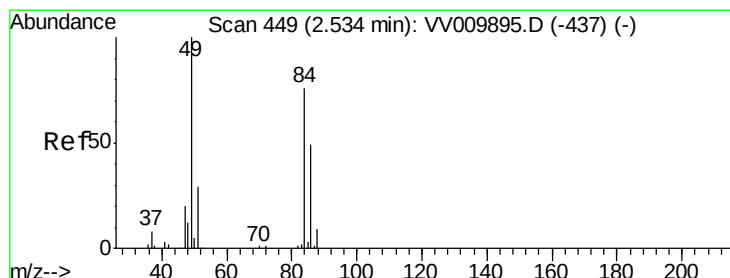
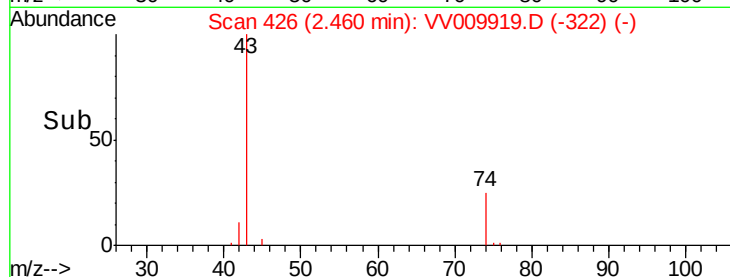
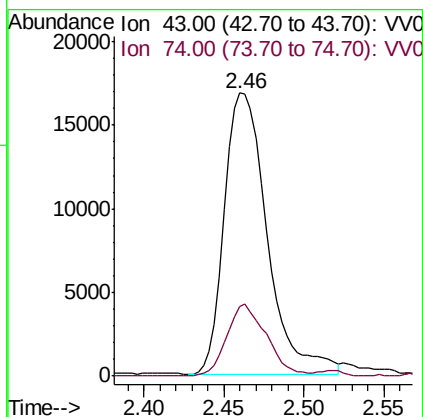
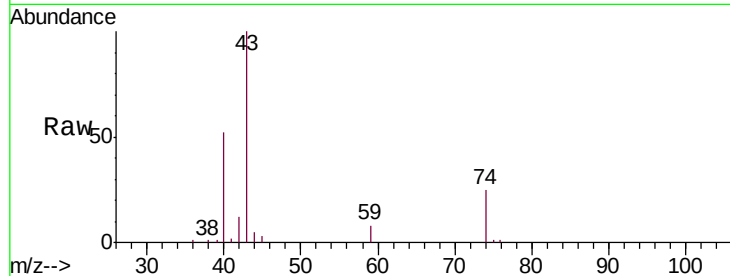




#15
Methyl Acetate
Concen: 24.291 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

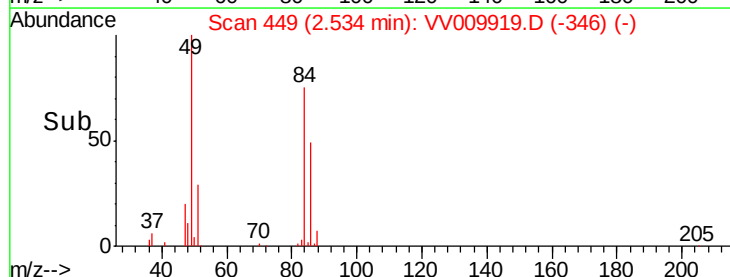
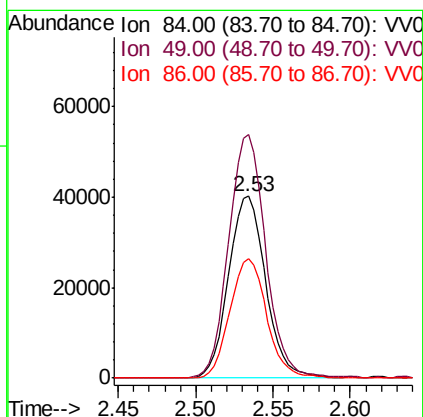
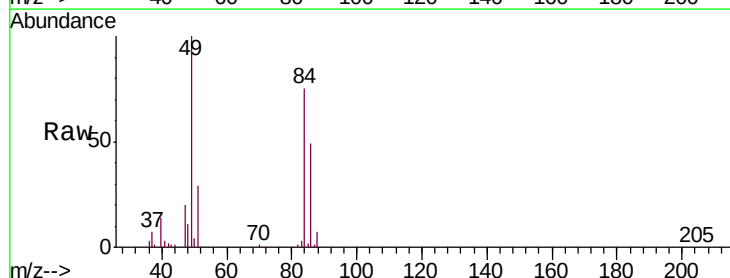
Instrument :
MSVOA_V
ClientSampleId :
VSTD02566

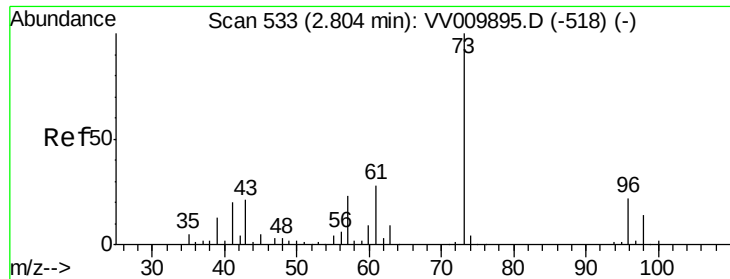
Tgt Ion: 43 Resp: 30903
Ion Ratio Lower Upper
43 100
74 23.5 20.9 31.3



#16
Methylene chloride
Concen: 21.475 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

Tgt Ion: 84 Resp: 67088
Ion Ratio Lower Upper
84 100
49 133.8 90.4 167.8
86 65.9 44.0 81.6

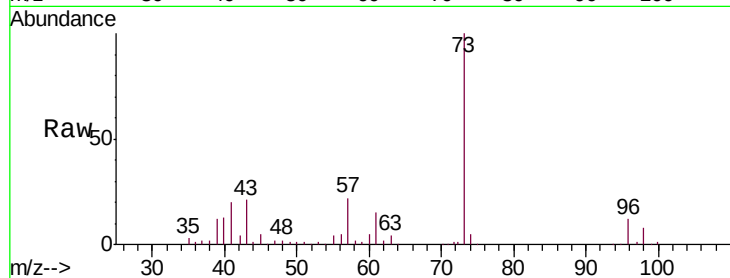




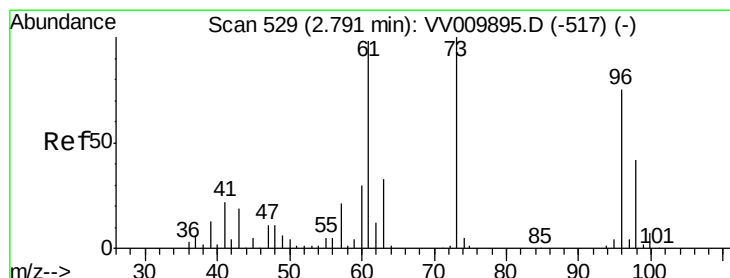
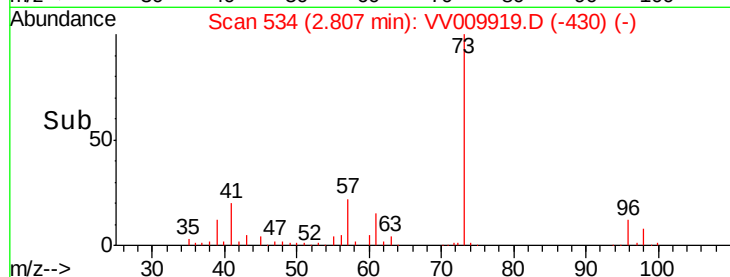
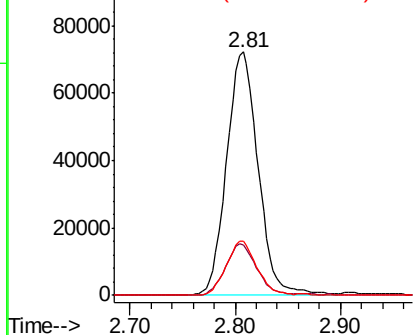
#17
Methyl tert-butyl Ether
Concen: 24.799 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

Instrument :
MSVOA_V
ClientSampleId :
VSTD02566

Tgt Ion: 73 Resp: 150167
Ion Ratio Lower Upper
73 100
43 21.2 17.0 25.6
57 21.5 18.0 27.0

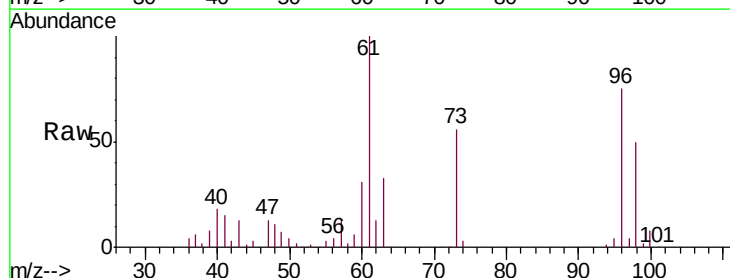


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

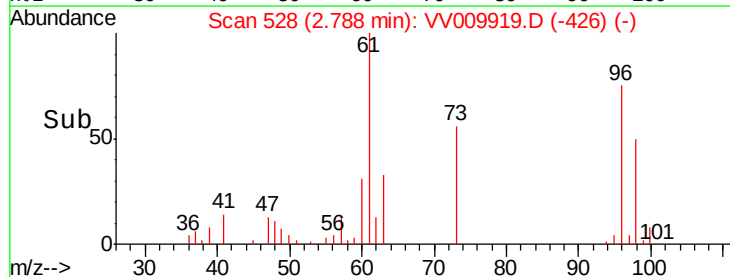
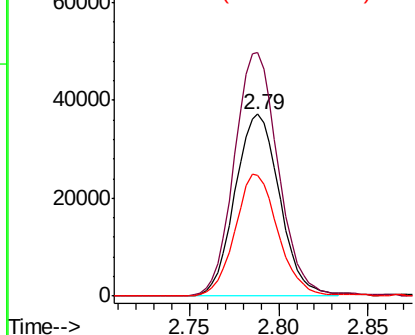


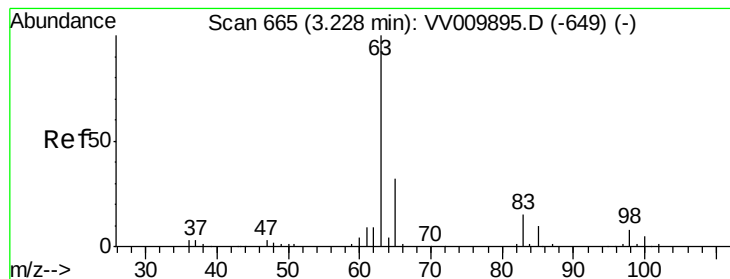
#18
trans-1,2-Dichloroethene
Concen: 26.165 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

Tgt Ion: 96 Resp: 65037
Ion Ratio Lower Upper
96 100
61 133.8 96.8 179.8
98 66.5 46.1 85.7



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0





#19

1,1-Dichloroethane

Concen: 25.956 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

Instrument :

MSVOA_V

ClientSampleId :

VSTD02566

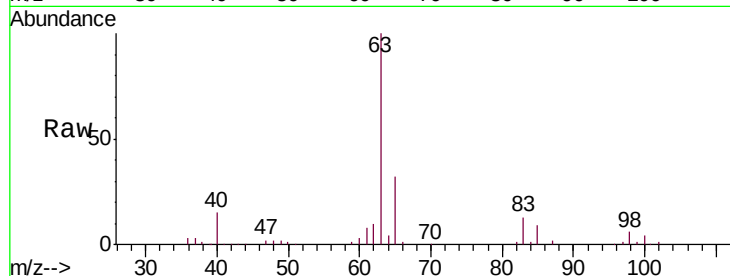
Tgt Ion: 63 Resp: 117988

Ion Ratio Lower Upper

63 100

65 32.3 23.2 43.0

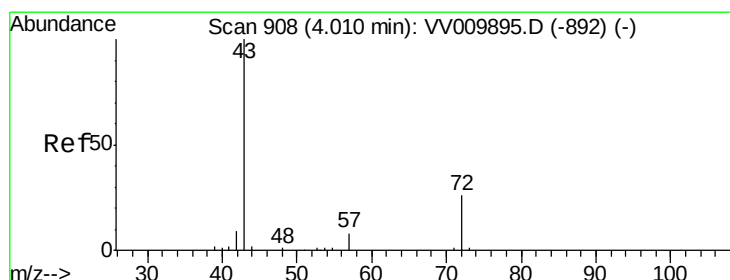
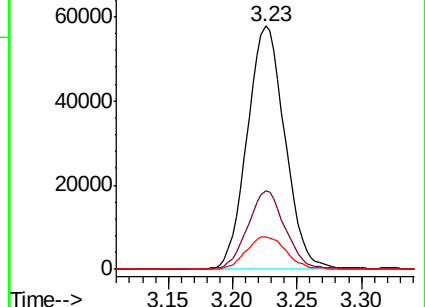
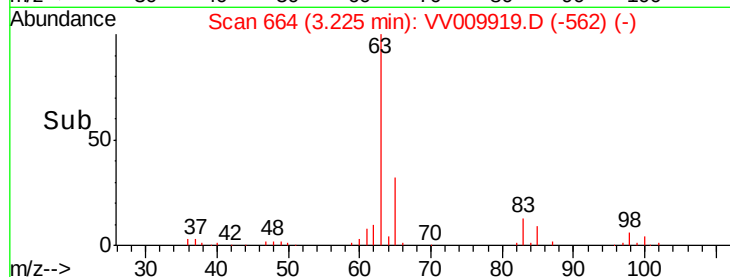
83 13.5 11.3 21.1



Abundance Ion 63.00 (62.70 to 63.70): VV009919.D (-649) (-)

Ion 65.00 (64.70 to 65.70): VV009919.D (-649) (-)

Ion 83.00 (82.70 to 83.70): VV009919.D (-649) (-)



#21

2-Butanone

Concen: 49.027 ug/L

RT: 4.03 min Scan# 913

Delta R.T. 0.02 min

Lab File: VV009919.D

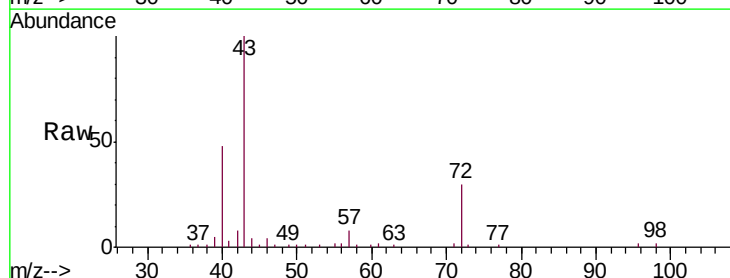
Acq: 27 Mar 2019 10:15

Tgt Ion: 43 Resp: 47424

Ion Ratio Lower Upper

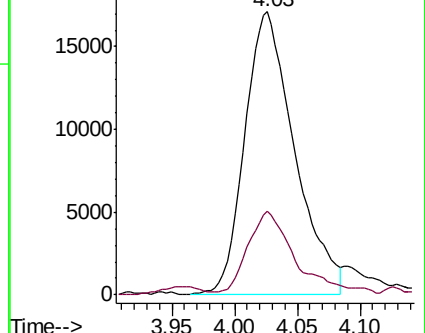
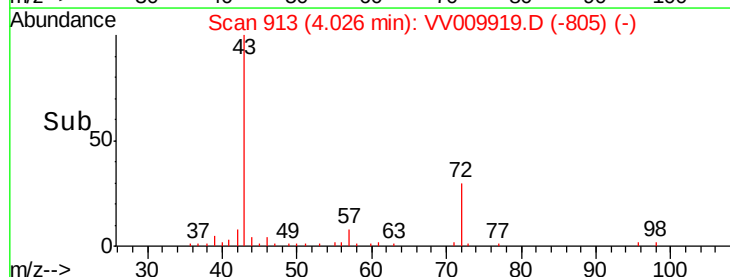
43 100

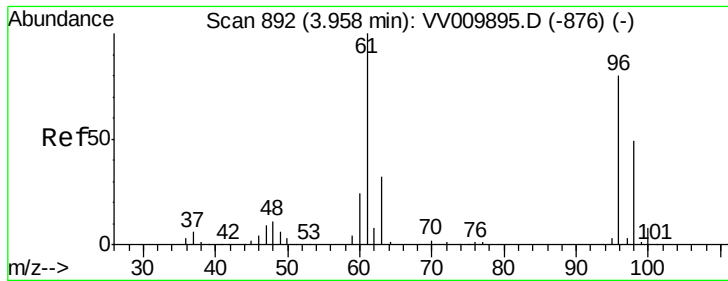
72 25.3 11.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VV009919.D (-805) (-)

Ion 72.00 (71.70 to 72.70): VV009919.D (-805) (-)



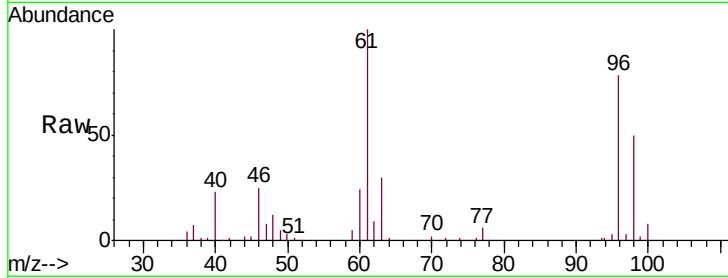


#22

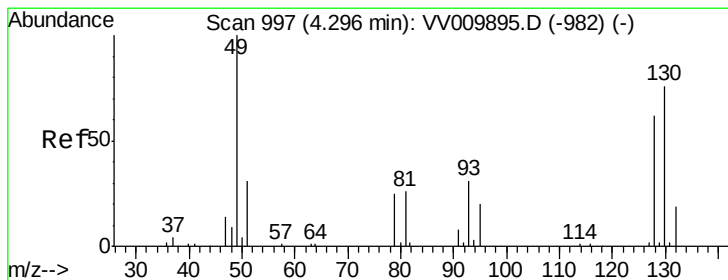
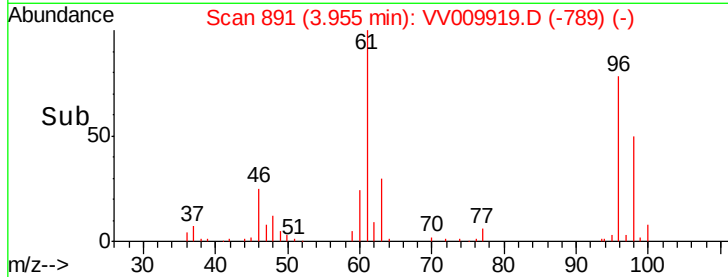
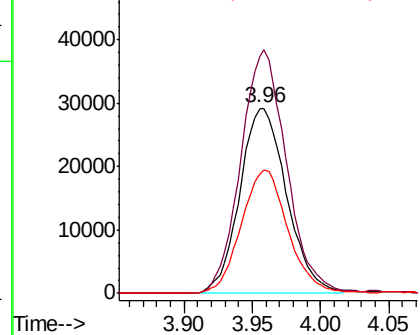
cis-1,2-Dichloroethene
Concen: 25.403 ug/L
RT: 3.96 min Scan# 891
Delta R.T. -0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

Instrument :
MSVOA_V
ClientSampled :
VSTD02566

Tgt Ion: 96 Resp: 69721
Ion Ratio Lower Upper
96 100
61 128.0 91.4 169.8
98 64.5 48.0 89.2



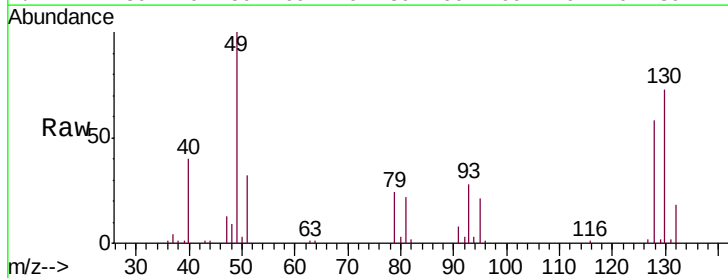
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



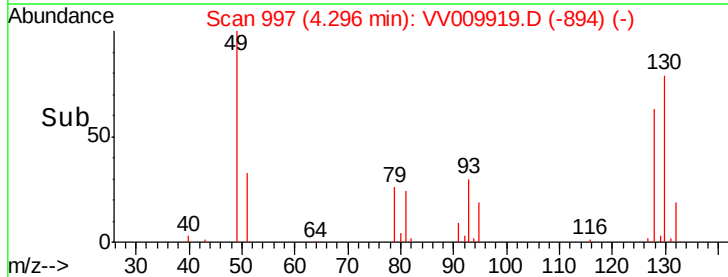
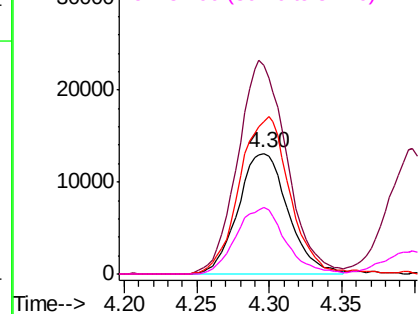
#23

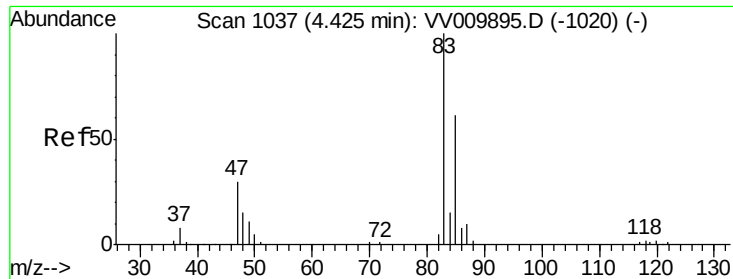
Bromochloromethane
Concen: 24.809 ug/L
RT: 4.30 min Scan# 997
Delta R.T. 0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

Tgt Ion: 128 Resp: 31441
Ion Ratio Lower Upper
128 100
49 173.4 118.2 219.6
130 126.8 83.4 154.8
51 54.8 39.4 59.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VV0
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VV0

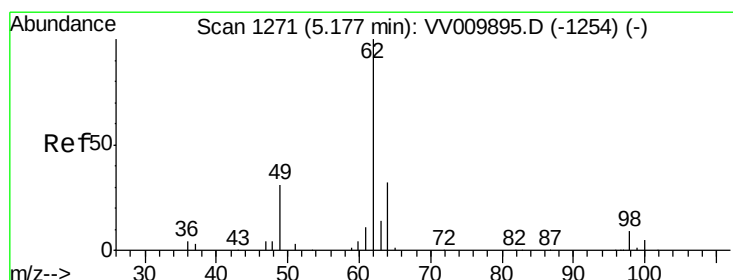
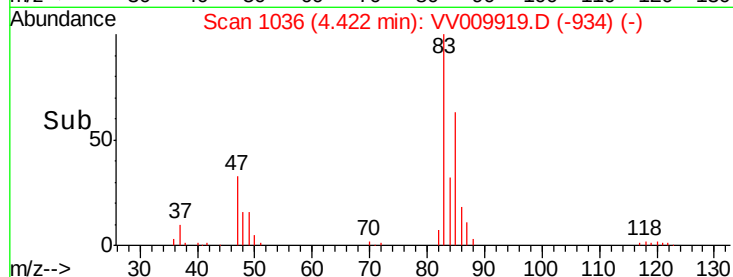
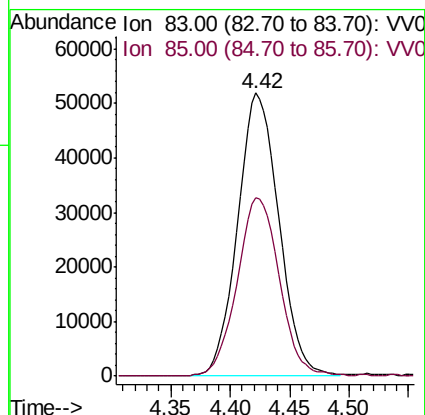
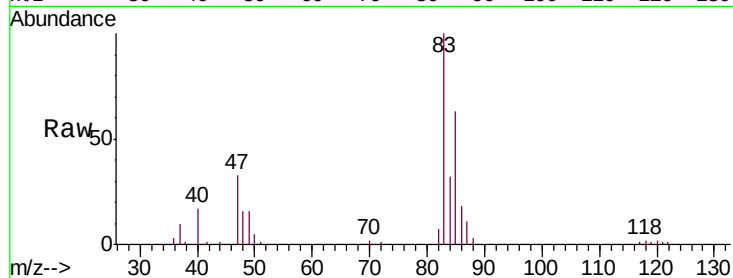




#25
Chloroform
Concen: 24.810 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

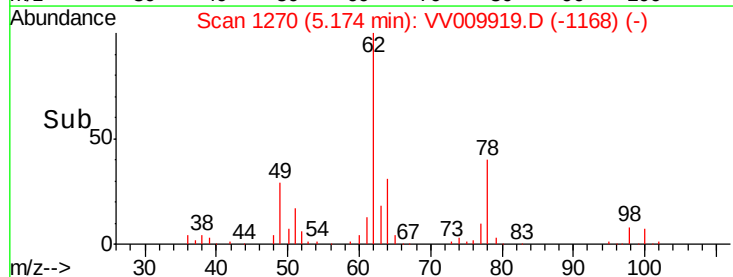
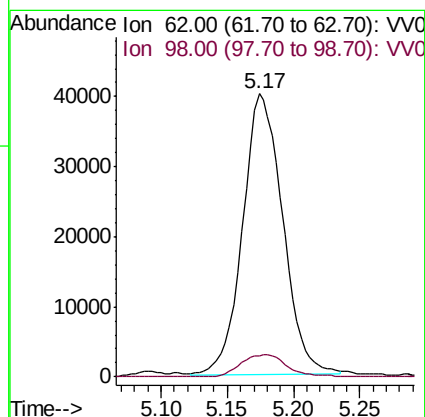
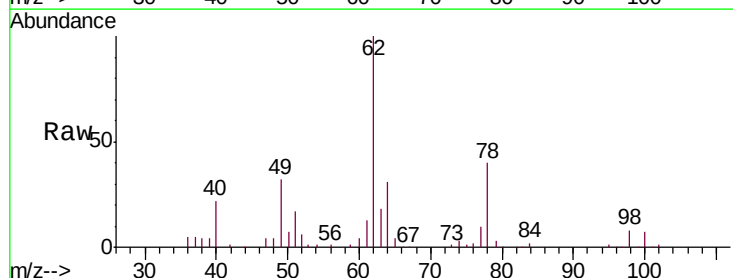
Instrument :
MSVOA_V
ClientSampleId :
VSTD02566

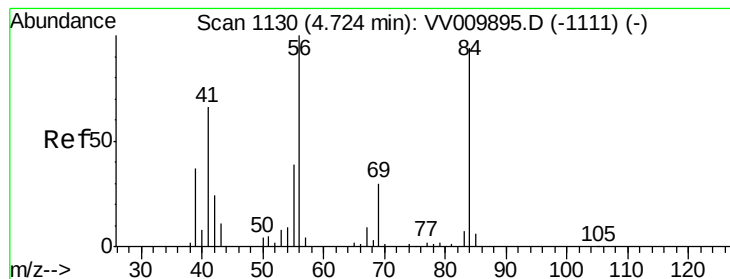
Tgt Ion: 83 Resp: 124697
Ion Ratio Lower Upper
83 100
85 64.6 46.1 85.7



#27
1,2-Dichloroethane
Concen: 23.639 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

Tgt Ion: 62 Resp: 84181
Ion Ratio Lower Upper
62 100
98 7.6 7.2 10.8





#30

Cyclohexane

Concen: 28.021 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. -0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

Instrument :

MSVOA_V

ClientSampleId :

VSTD02566

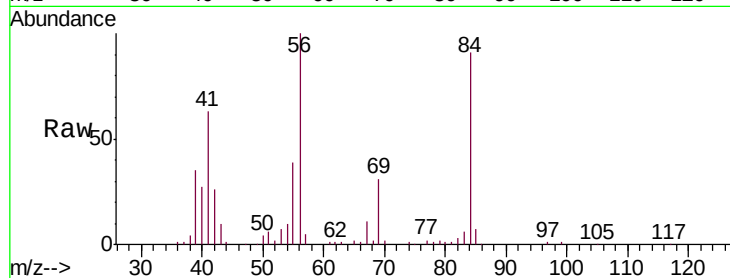
Tgt Ion: 56 Resp: 108153

Ion Ratio Lower Upper

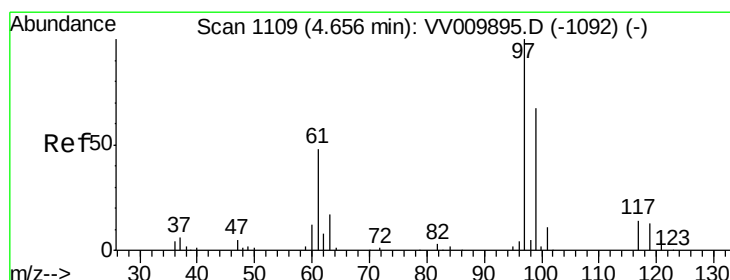
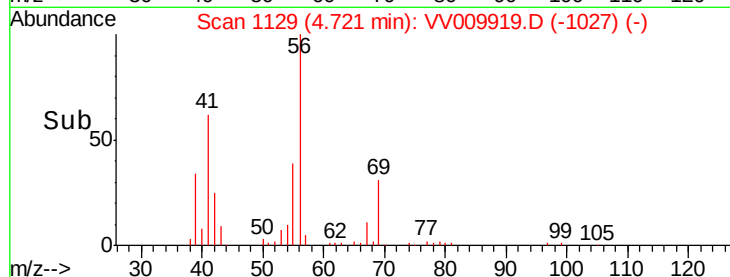
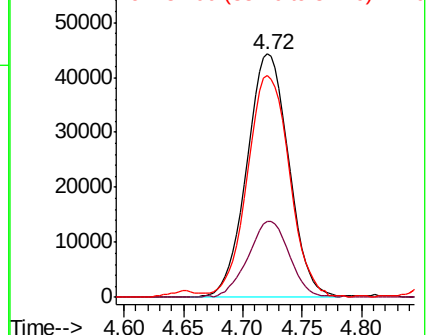
56 100

69 30.8 24.5 36.7

84 91.9 75.6 113.4



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: 27.691 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

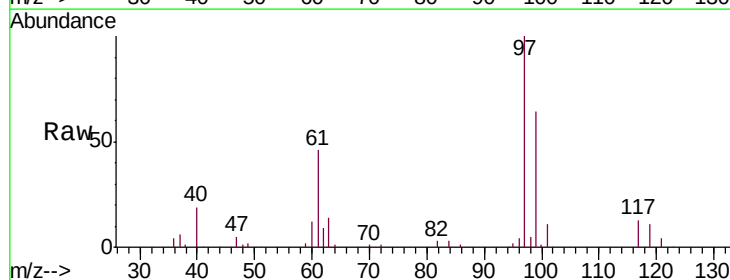
Tgt Ion: 97 Resp: 106082

Ion Ratio Lower Upper

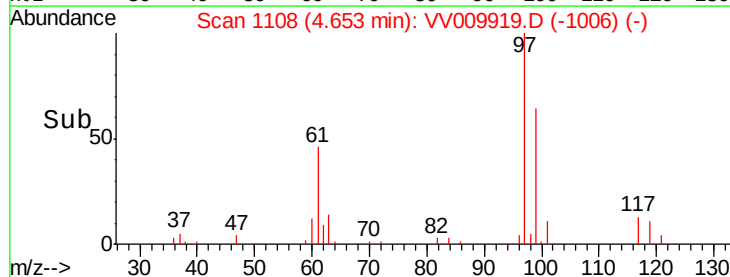
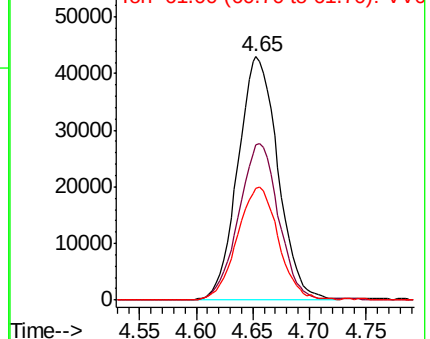
97 100

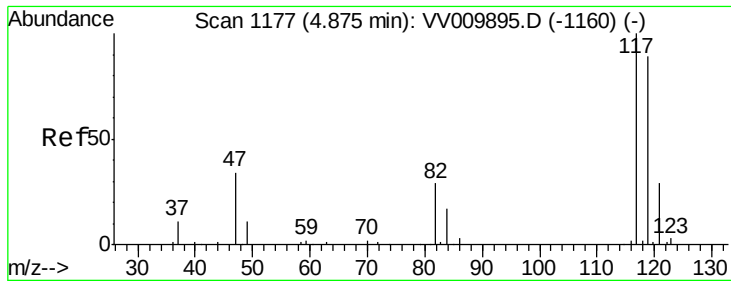
99 63.8 51.5 77.3

61 47.6 39.4 59.0



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: 28.334 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

Instrument :

MSVOA_V

ClientSampleId :

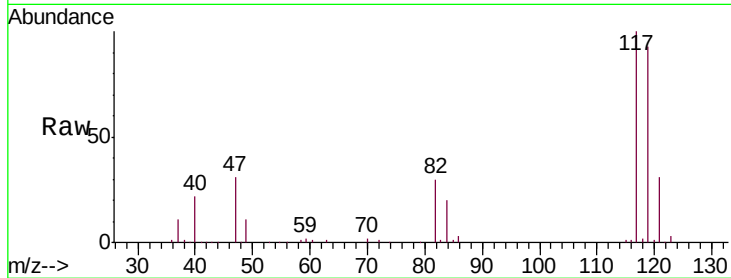
VSTD02566

Tgt Ion:117 Resp: 94346

Ion Ratio Lower Upper

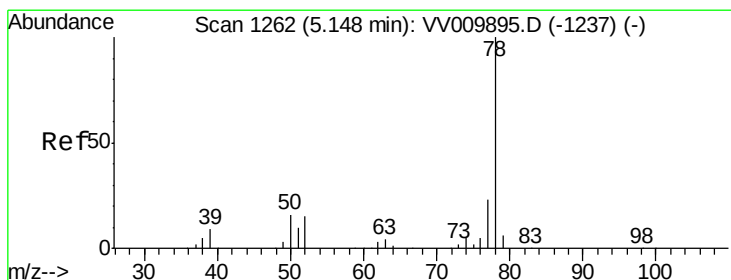
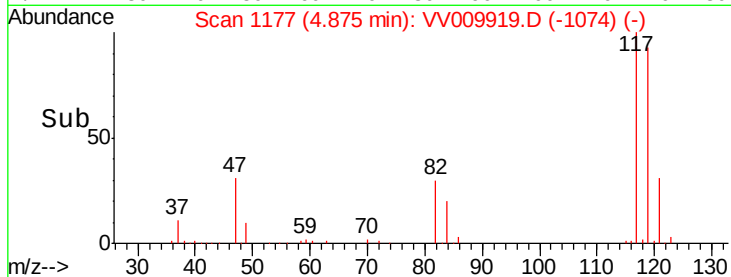
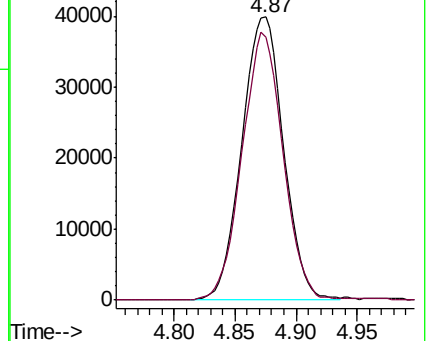
117 100

119 92.6 78.1 117.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 25.975 ug/L

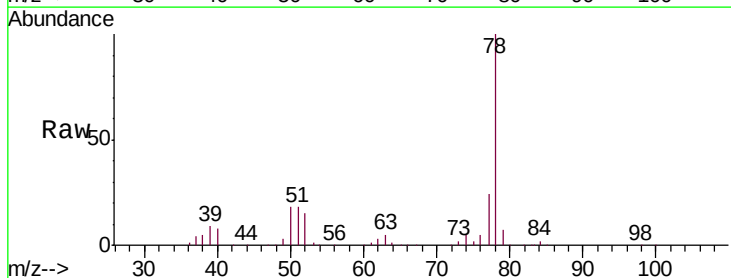
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

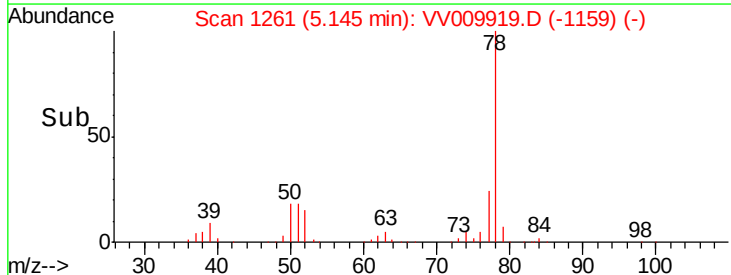
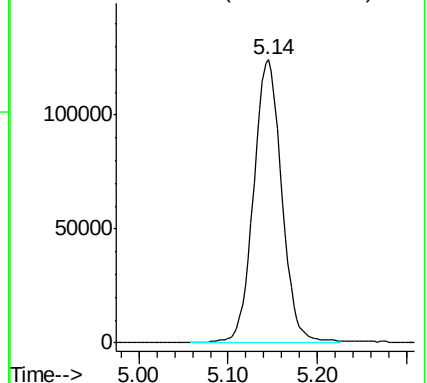
Lab File: VV009919.D

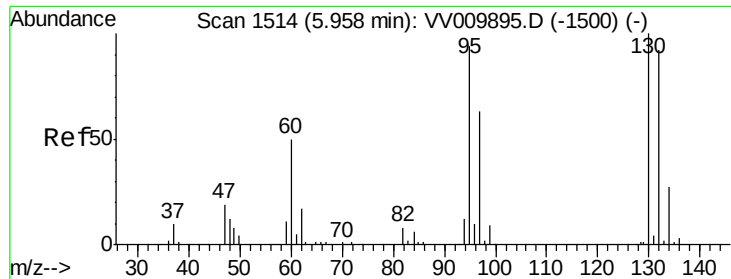
Acq: 27 Mar 2019 10:15

Tgt Ion: 78 Resp: 273046



Abundance Ion 78.00 (77.70 to 78.70): VV0

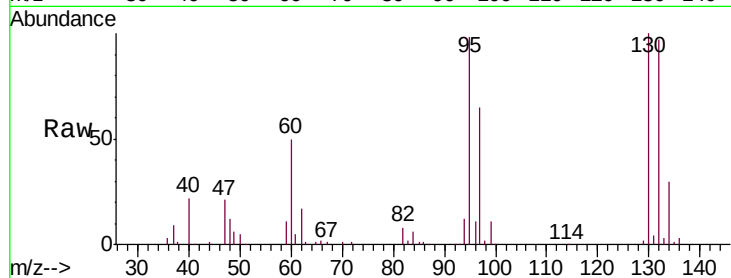




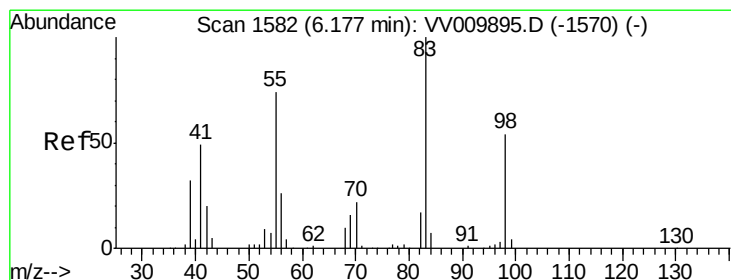
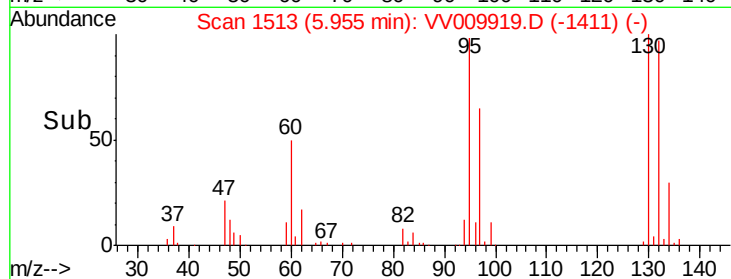
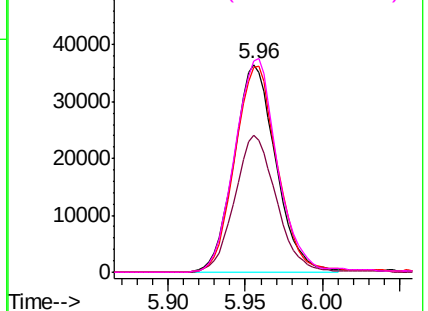
#35
 Trichloroethene
 Concen: 24.810 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. -0.00 min
 Lab File: VV009919.D
 Acq: 27 Mar 2019 10:15

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02566

Tgt Ion:	95	Resp:	68792
Ion	Ratio	Lower	Upper
95	100		
97	65.6	46.3	85.9
132	100.7	69.3	128.7
130	104.0	69.5	129.1

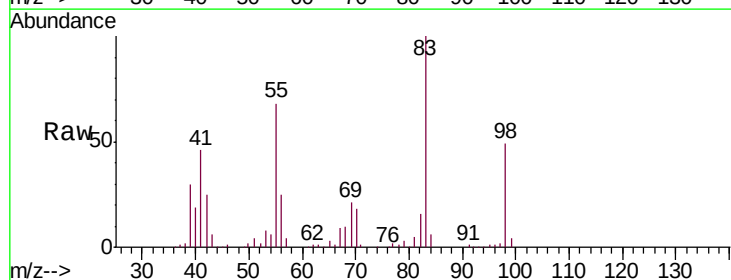


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

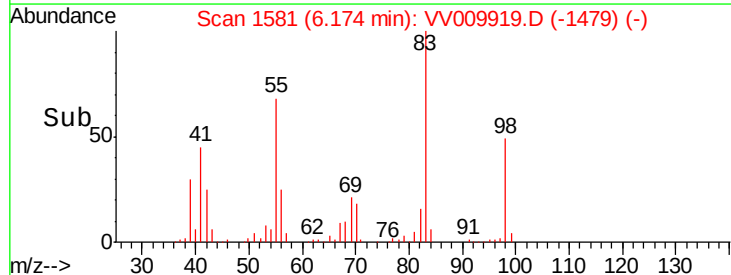
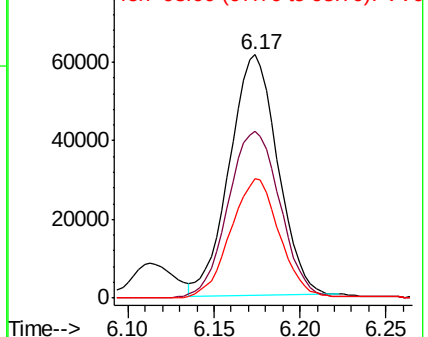


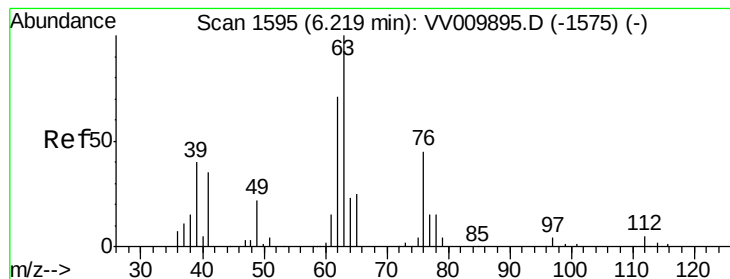
#36
 Methylcyclohexane
 Concen: 27.516 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV009919.D
 Acq: 27 Mar 2019 10:15

Tgt Ion:	83	Resp:	119705
Ion	Ratio	Lower	Upper
83	100		
55	74.8	57.3	85.9
98	49.5	39.2	58.8



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: 25.582 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. -0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

Instrument :

MSVOA_V

ClientSampleId :

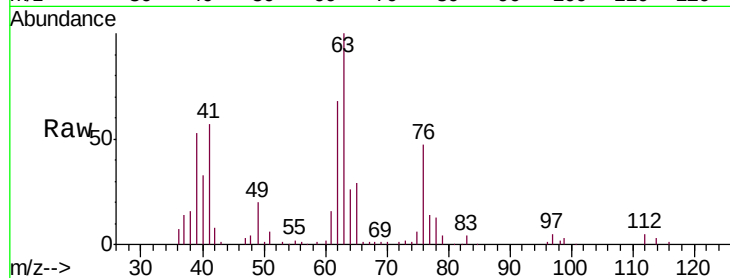
VSTD02566

Tgt Ion: 63 Resp: 67195

Ion Ratio Lower Upper

63 100

112 4.9 2.1 3.1#

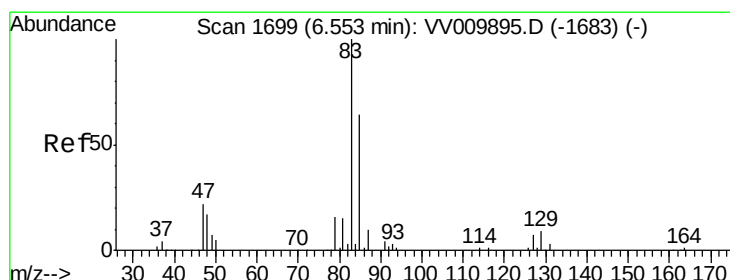
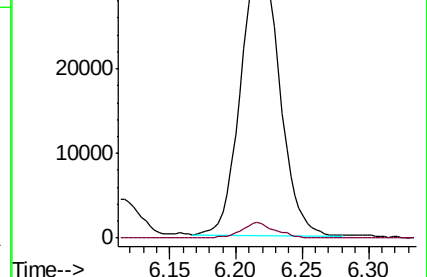
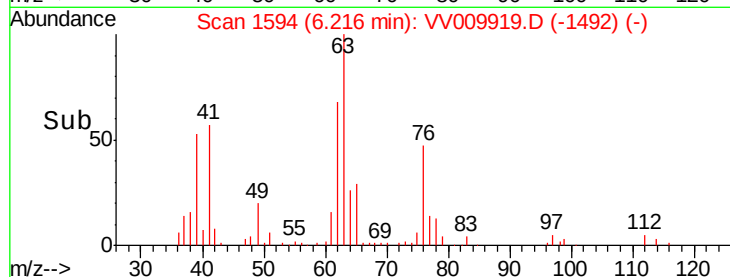


Abundance Ion 63.00 (62.70 to 63.70): VV009919.D (-1575) (-)

Ion 112.00 (111.70 to 112.70): VV009919.D (-1575) (-)

6.22

Time-->



#41

Bromodichloromethane

Concen: 25.492 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

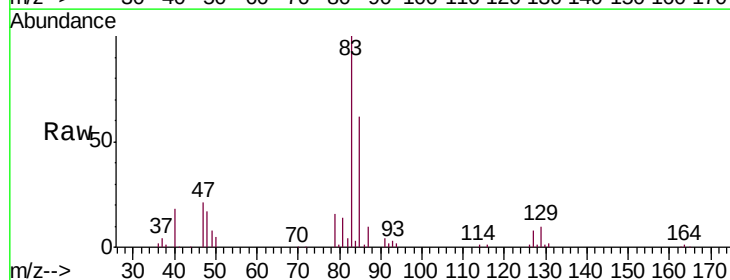
Tgt Ion: 83 Resp: 83274

Ion Ratio Lower Upper

83 100

85 62.0 45.6 84.8

127 7.6 6.2 9.4



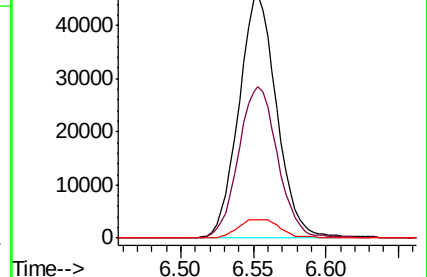
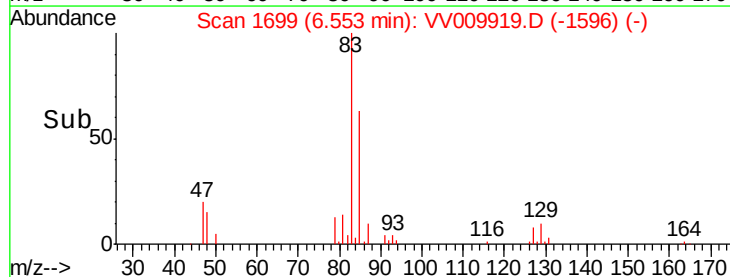
Abundance Ion 83.00 (82.70 to 83.70): VV009919.D (-1683) (-)

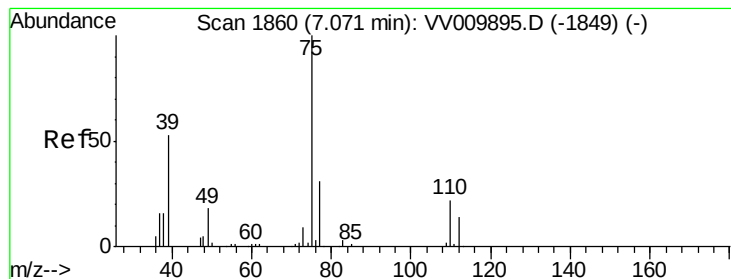
Ion 85.00 (84.70 to 85.70): VV009919.D (-1683) (-)

Ion 127.00 (126.70 to 127.70): VV009919.D (-1683) (-)

6.55

Time-->



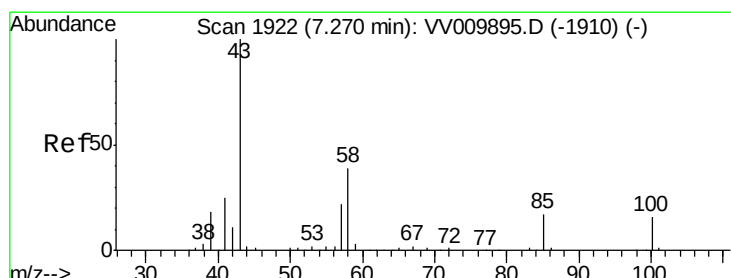
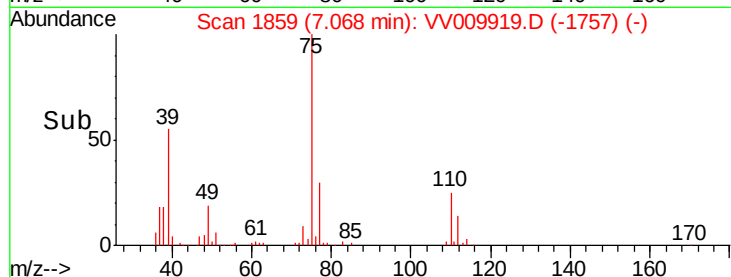
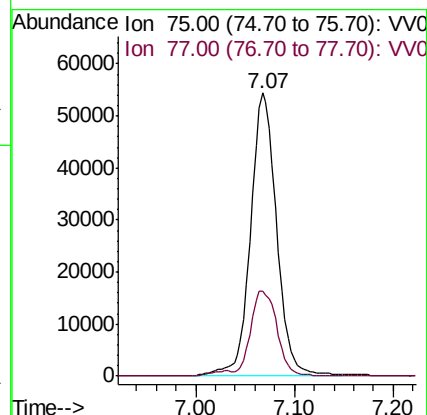
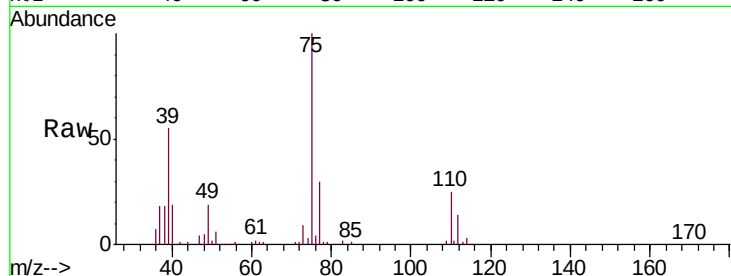


#42

cis-1,3-Dichloropropene
Concen: 26.014 ug/L
RT: 7.07 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

Instrument :
MSVOA_V
ClientSampleId :
VSTD02566

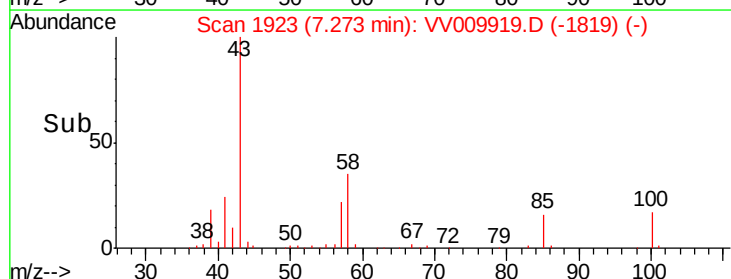
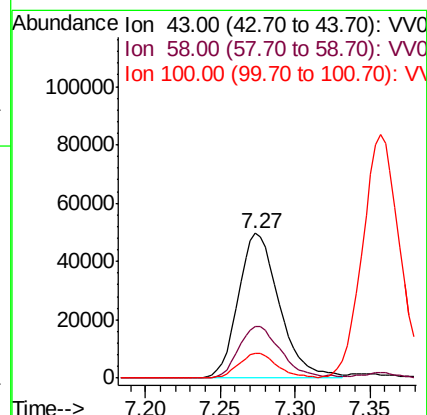
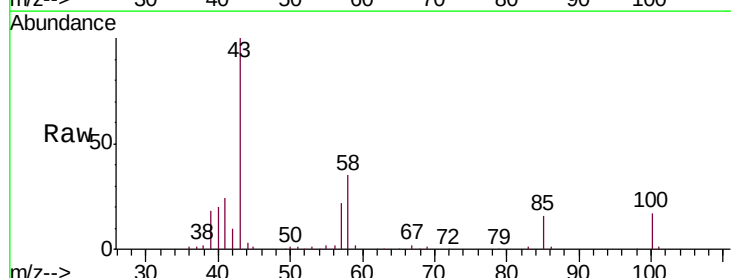
Tgt Ion: 75 Resp: 99625
Ion Ratio Lower Upper
75 100
77 30.0 21.8 40.6

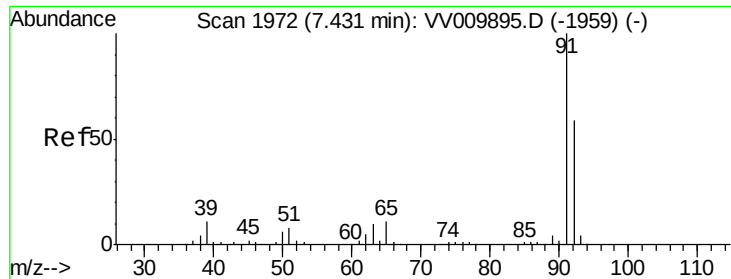


#43

4-Methyl-2-pentanone
Concen: 50.746 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

Tgt Ion: 43 Resp: 95120
Ion Ratio Lower Upper
43 100
58 36.1 29.4 44.2
100 16.0 12.2 18.4





#44

Toluene

Concen: 25.711 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

Instrument :

MSVOA_V

ClientSampleId :

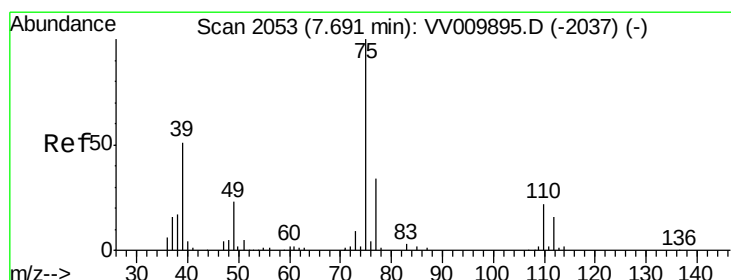
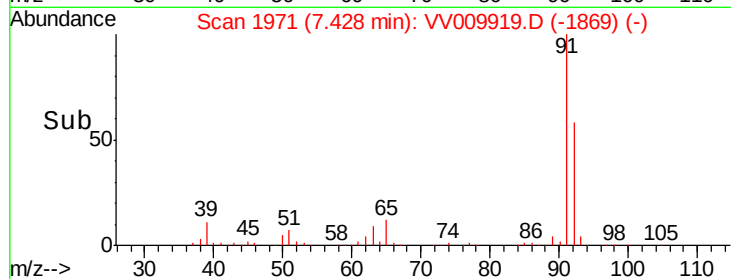
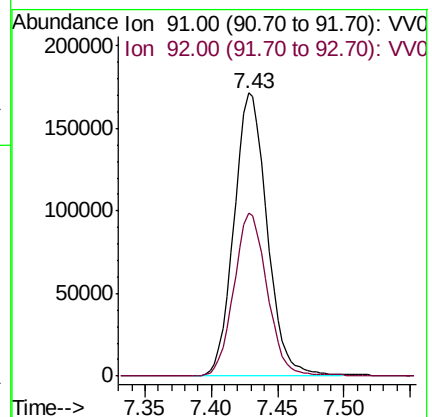
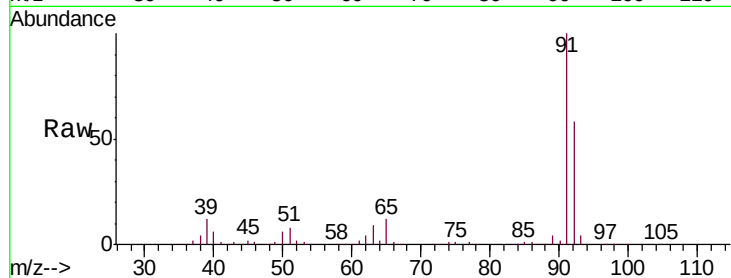
VSTD02566

Tgt Ion: 91 Resp: 297946

Ion Ratio Lower Upper

91 100

92 57.6 41.0 76.2



#45

trans-1,3-Dichloropropene

Concen: 26.082 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV009919.D

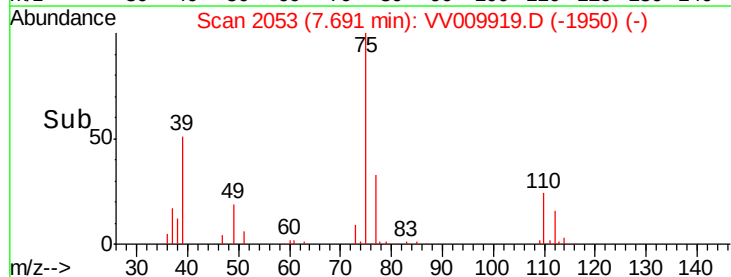
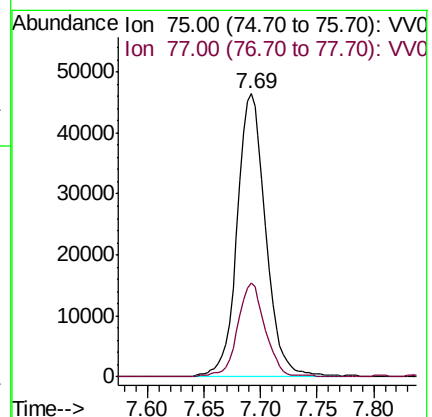
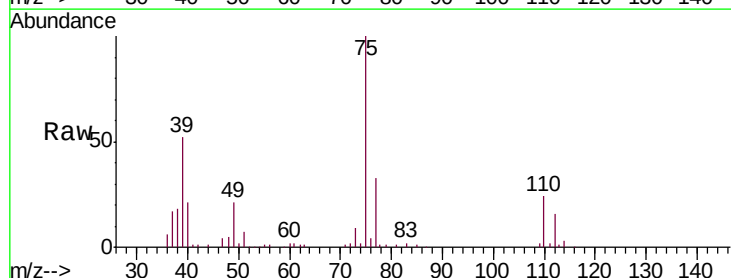
Acq: 27 Mar 2019 10:15

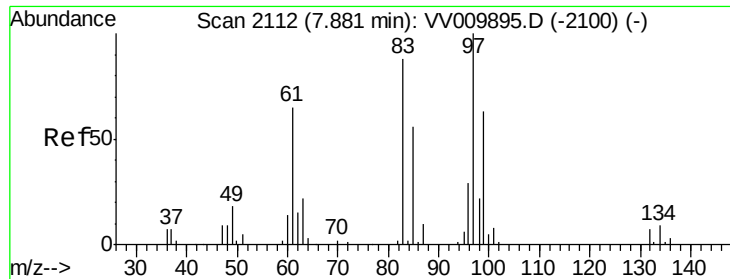
Tgt Ion: 75 Resp: 81763

Ion Ratio Lower Upper

75 100

77 33.1 20.7 38.5

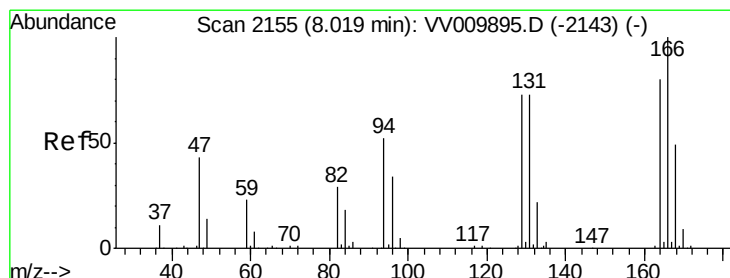
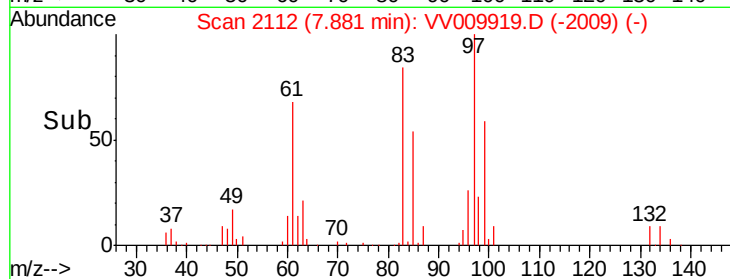
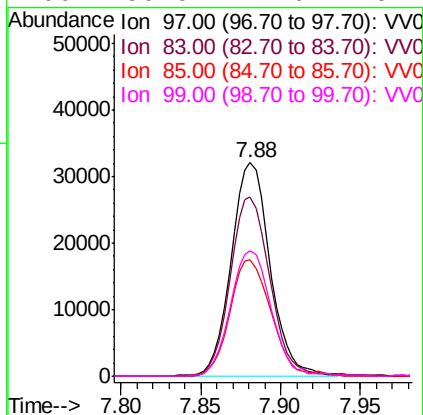
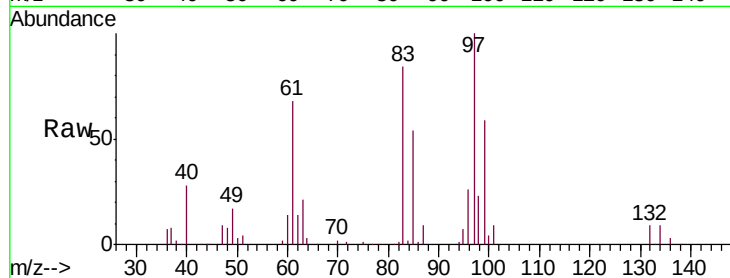




#46
 1,1,2-Trichloroethane
 Concen: 24.459 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV009919.D
 Acq: 27 Mar 2019 10:15

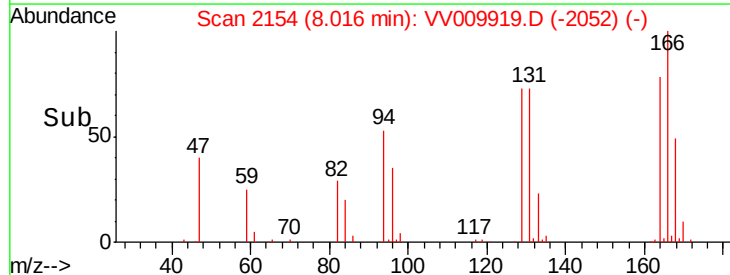
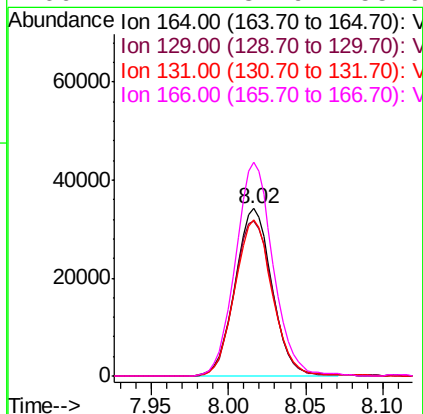
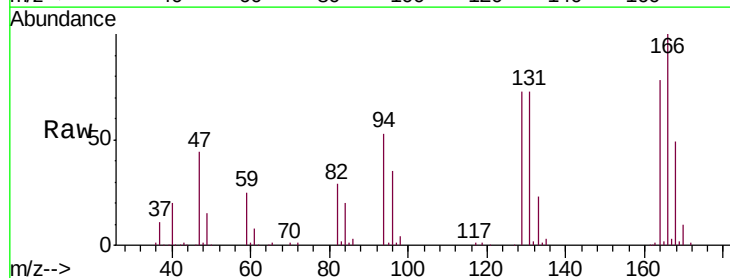
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02566

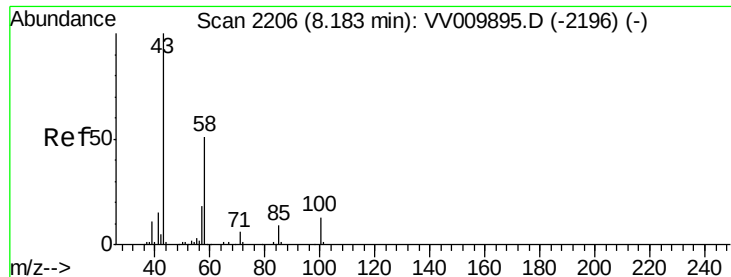
Tgt Ion:	97	Resp:	53136
Ion	Ratio	Lower	Upper
97	100		
83	83.9	59.6	110.8
85	54.3	39.2	72.8
99	59.0	42.6	79.2



#47
 Tetrachloroethene
 Concen: 25.984 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV009919.D
 Acq: 27 Mar 2019 10:15

Tgt Ion:	164	Resp:	56852
Ion	Ratio	Lower	Upper
164	100		
129	93.0	64.9	120.5
131	93.3	62.0	115.2
166	127.7	82.9	153.9

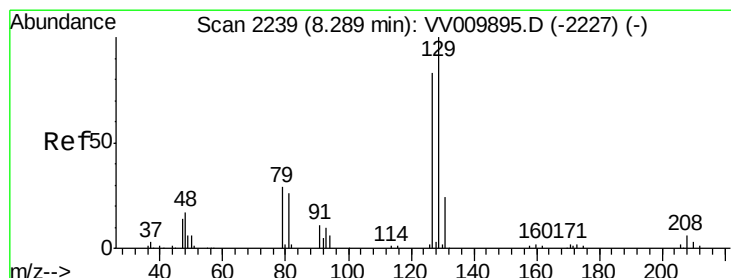
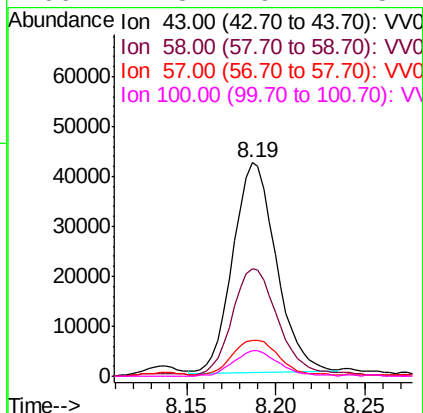
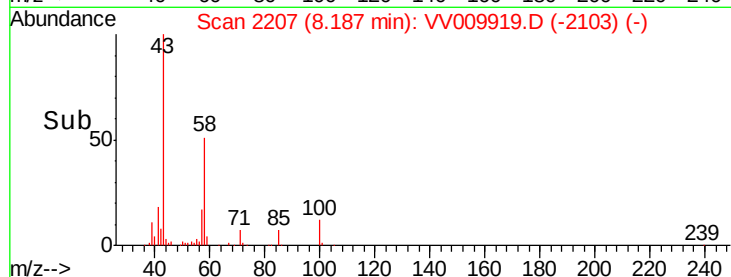
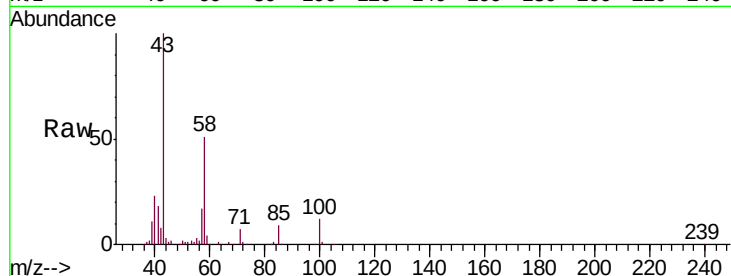




#49
2-Hexanone
Concen: 56.481 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

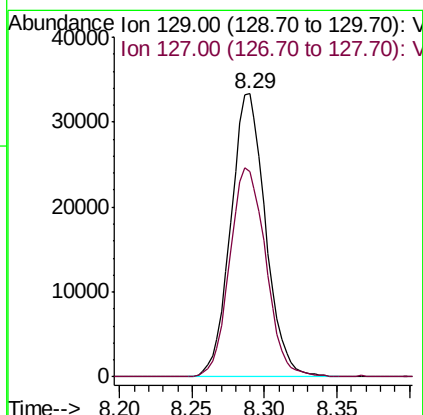
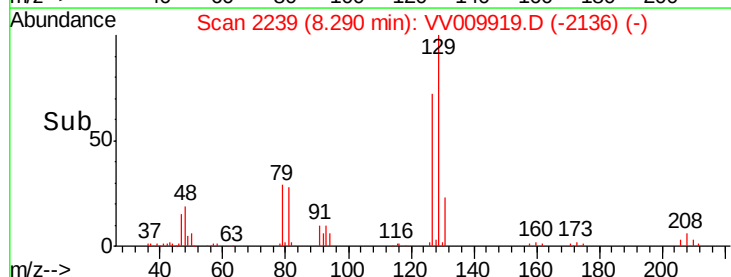
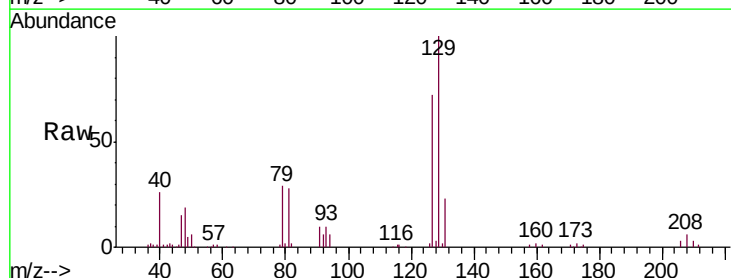
Instrument :
MSVOA_V
ClientSampleId :
VSTD02566

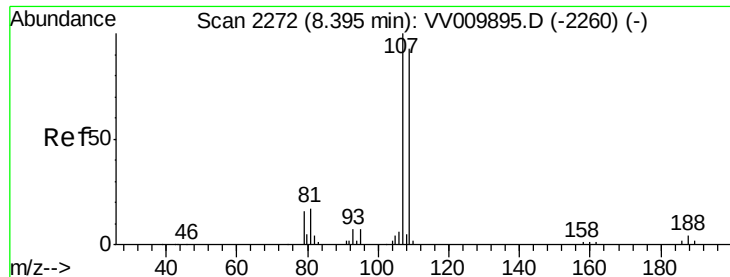
Tgt Ion: 43 Resp: 71553
Ion Ratio Lower Upper
43 100
58 52.5 42.0 63.0
57 18.2 12.9 19.3
100 12.8 9.1 13.7



#50
Dibromochloromethane
Concen: 24.728 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

Tgt Ion: 129 Resp: 55701
Ion Ratio Lower Upper
129 100
127 72.4 57.9 107.5

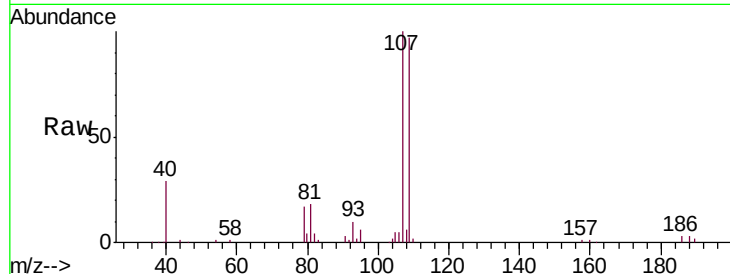




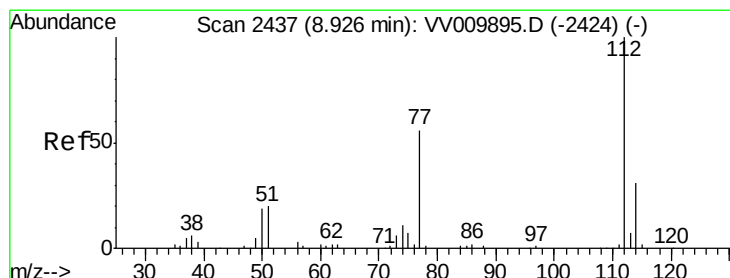
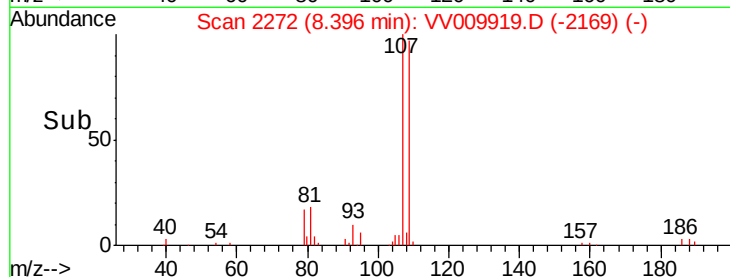
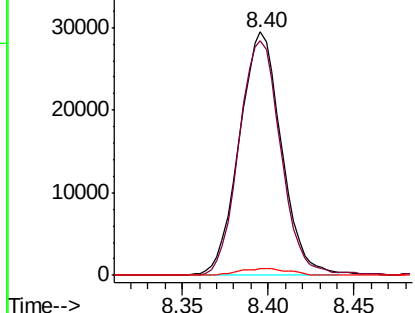
#51
1,2-Dibromoethane
Concen: 23.858 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

Instrument :
MSVOA_V
ClientSampleId :
VSTD02566

Tgt Ion:107 Resp: 50326
Ion Ratio Lower Upper
107 100
109 96.6 61.8 114.8
188 2.7 3.5 5.3#

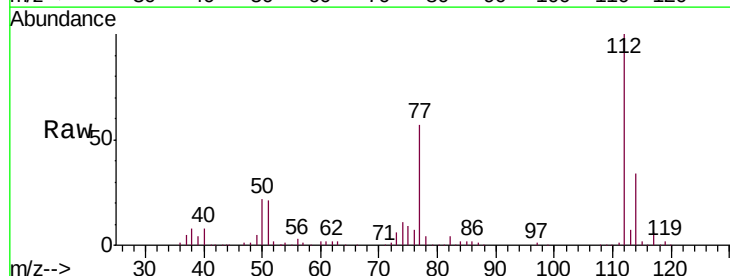


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

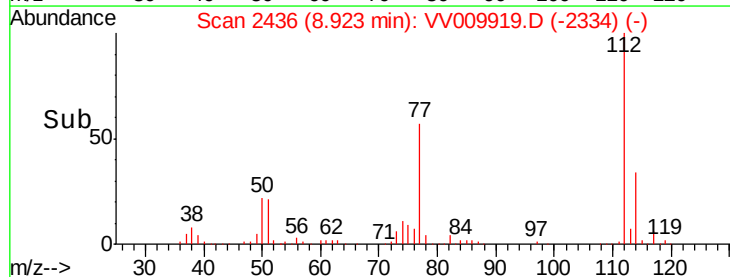
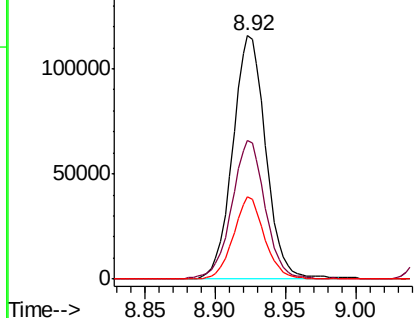


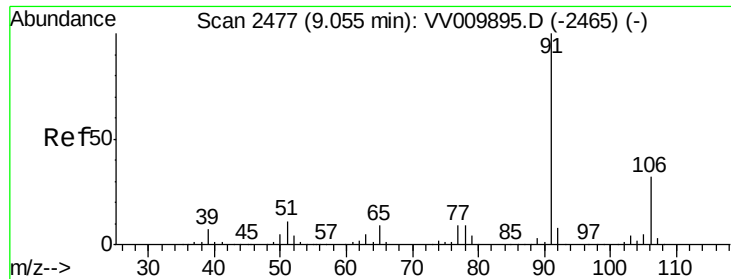
#52
Chlorobenzene
Concen: 24.697 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

Tgt Ion:112 Resp: 190530
Ion Ratio Lower Upper
112 100
77 57.0 46.8 70.2
114 33.8 22.3 41.5



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

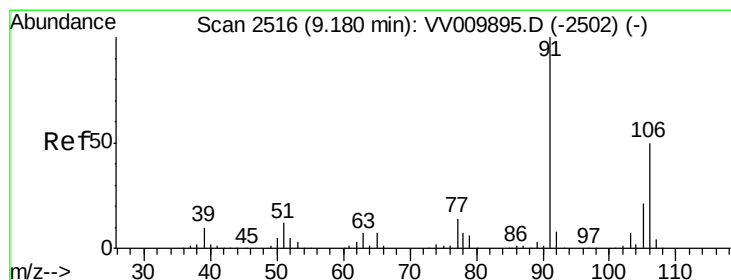
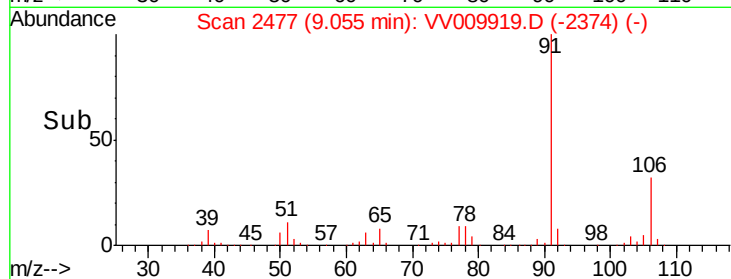
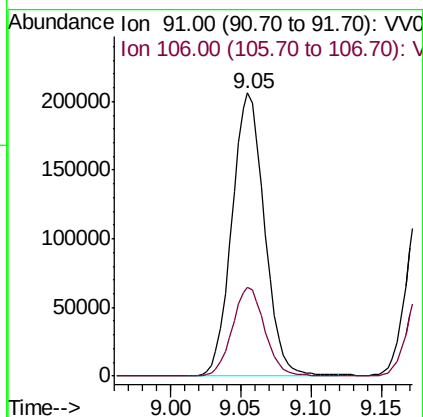
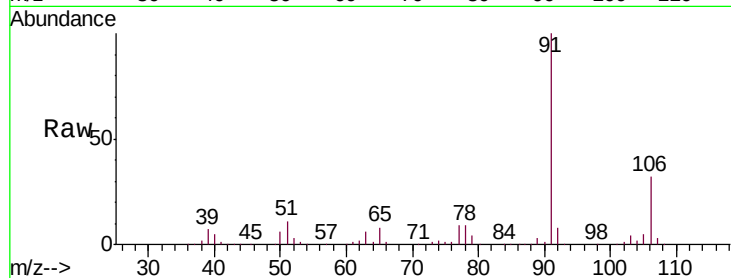




#53
Ethylbenzene
Concen: 26.129 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

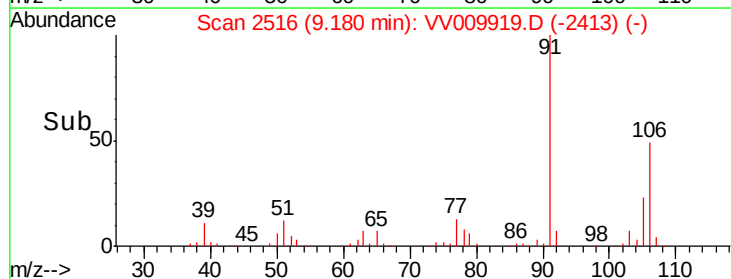
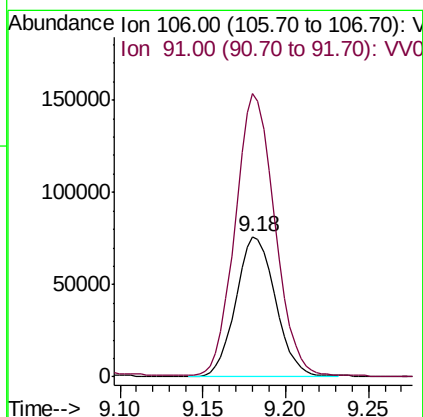
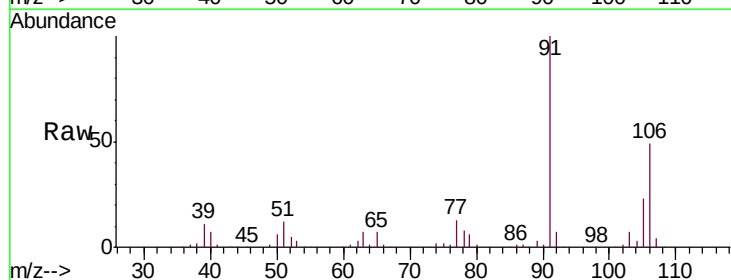
Instrument :
MSVOA_V
ClientSampleId :
VSTD02566

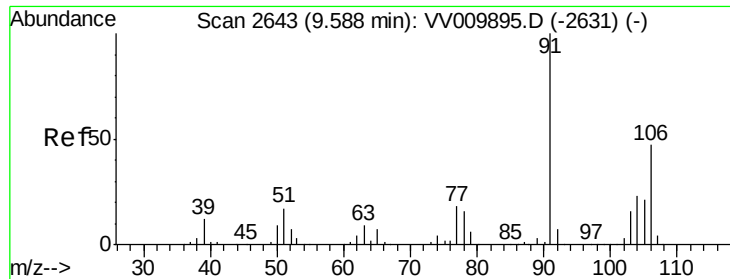
Tgt Ion: 91 Resp: 334009
Ion Ratio Lower Upper
91 100
106 31.5 22.3 41.3



#54
m,p-Xylene
Concen: 24.885 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. 0.00 min
Lab File: VV009919.D
Acq: 27 Mar 2019 10:15

Tgt Ion: 106 Resp: 124941
Ion Ratio Lower Upper
106 100
91 202.0 130.0 241.4





#55

o-xylene

Concen: 25.339 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

Instrument :

MSVOA_V

ClientSampleId :

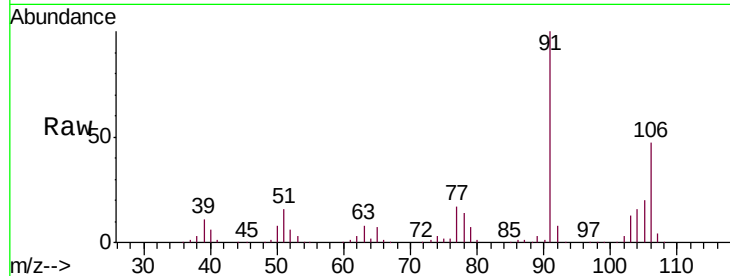
VSTD02566

Tgt Ion:106 Resp: 123484

Ion Ratio Lower Upper

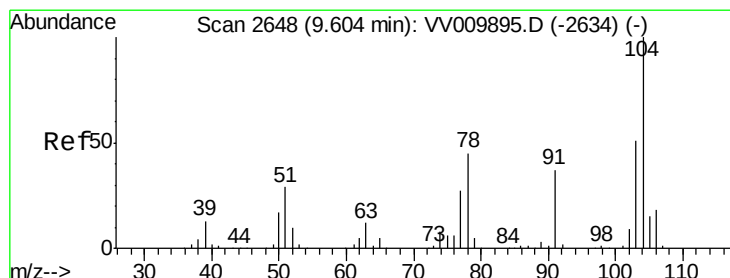
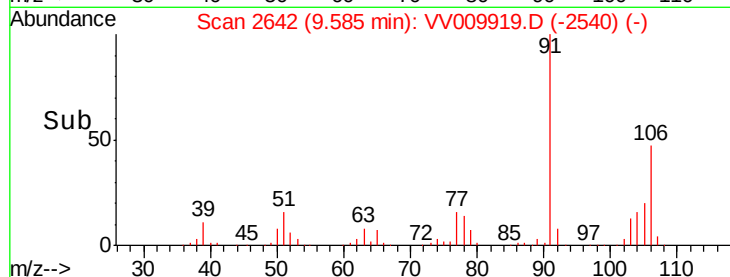
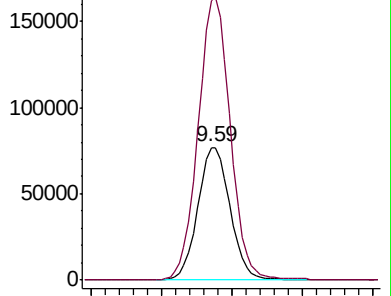
106 100

91 210.7 144.3 268.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 24.698 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV009919.D

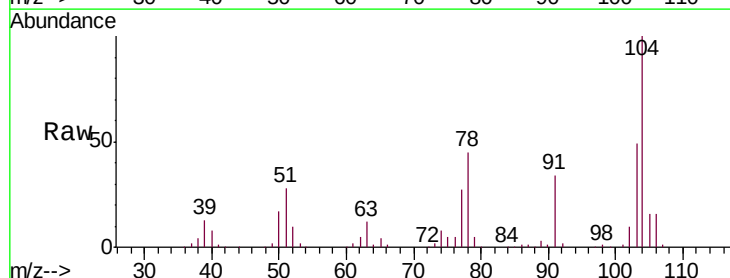
Acq: 27 Mar 2019 10:15

Tgt Ion:104 Resp: 206741

Ion Ratio Lower Upper

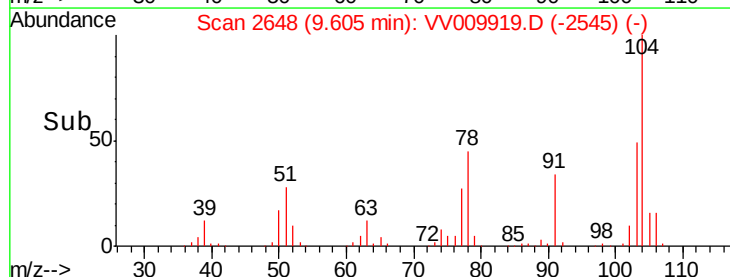
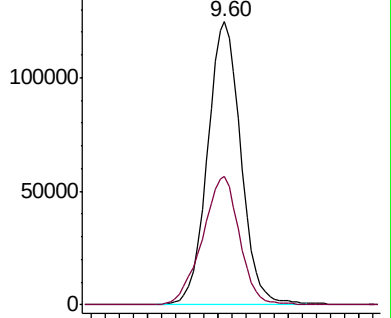
104 100

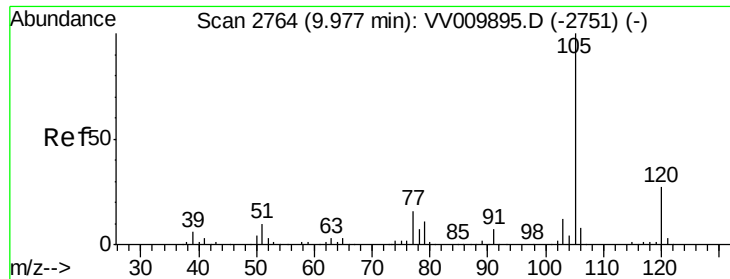
78 45.2 29.3 54.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 26.188 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

Instrument :

MSVOA_V

ClientSampled :

VSTD02566

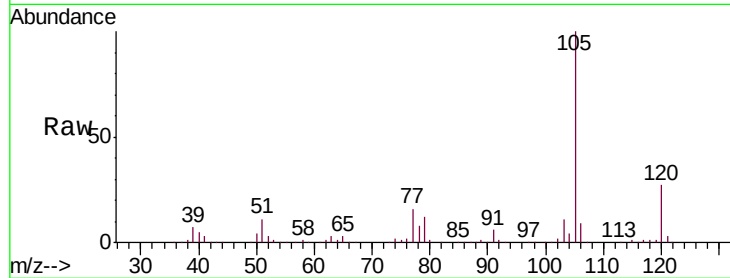
Tgt Ion: 105 Resp: 331085

Ion Ratio Lower Upper

105 100

120 26.7 20.8 31.2

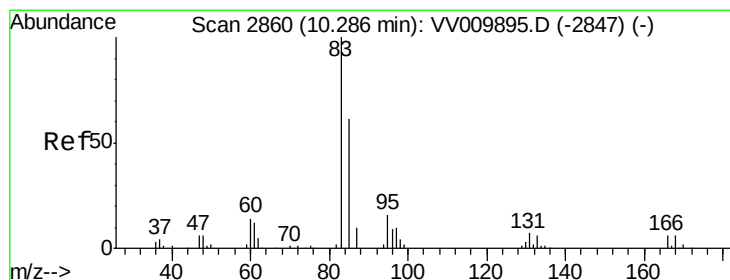
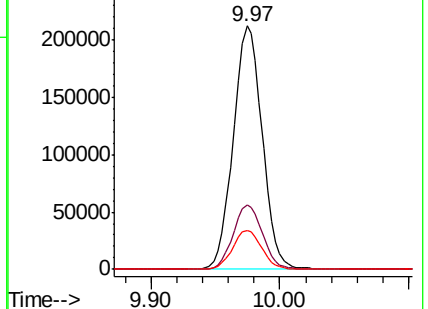
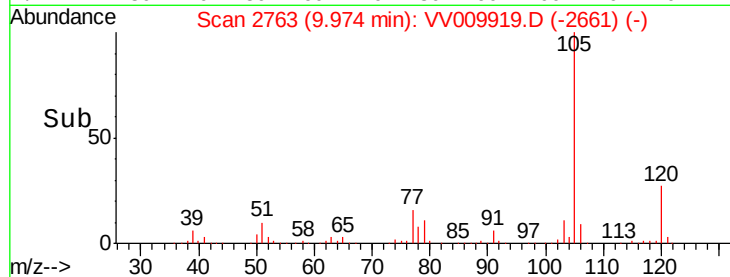
77 16.3 13.0 19.4



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: 23.860 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

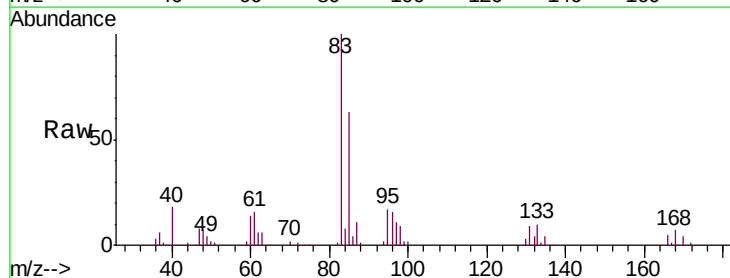
Tgt Ion: 83 Resp: 69867

Ion Ratio Lower Upper

83 100

85 62.9 45.8 85.0

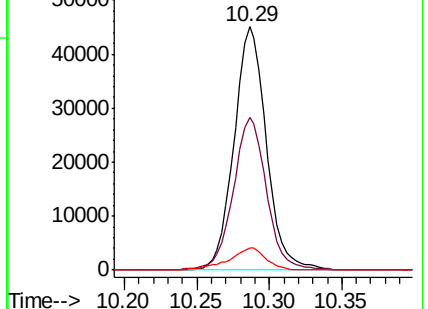
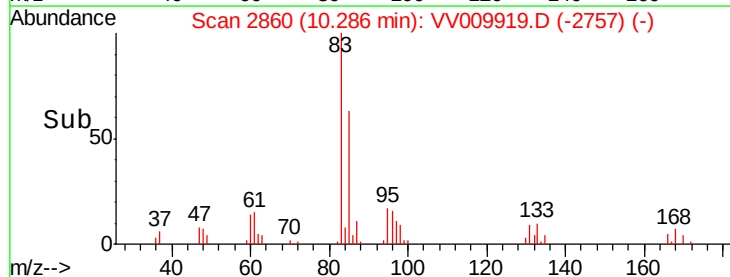
131 9.2 6.2 9.4

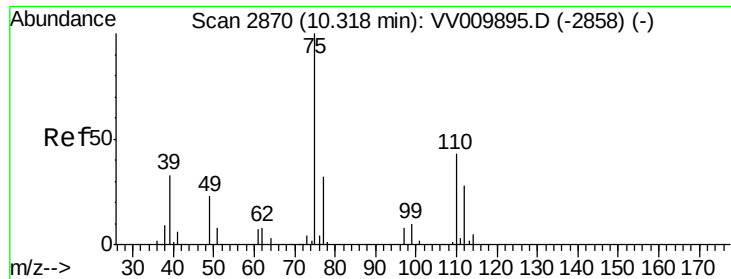


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 22.821 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

Instrument :

MSVOA_V

ClientSampleId :

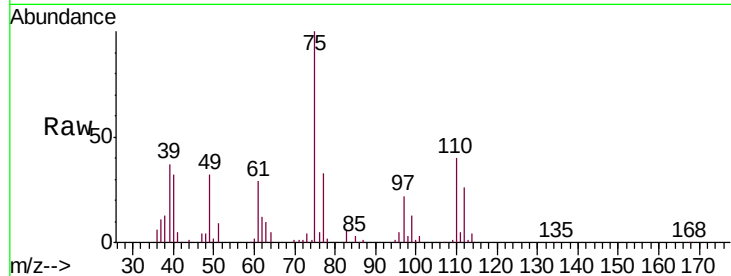
VSTD02566

Tgt Ion: 75 Resp: 48230

Ion Ratio Lower Upper

75 100

77 33.1 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VV009895.D (-2858) (-)

Ion 77.00 (76.70 to 77.70): VV009895.D (-2858) (-)

10.32

30000

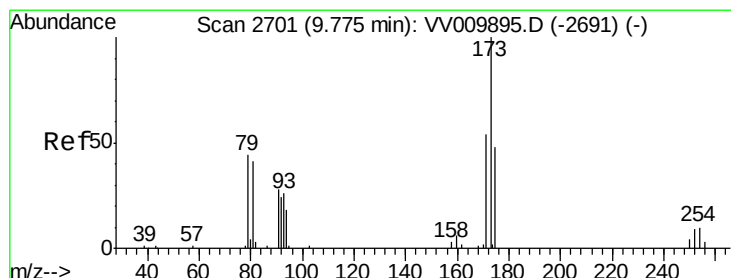
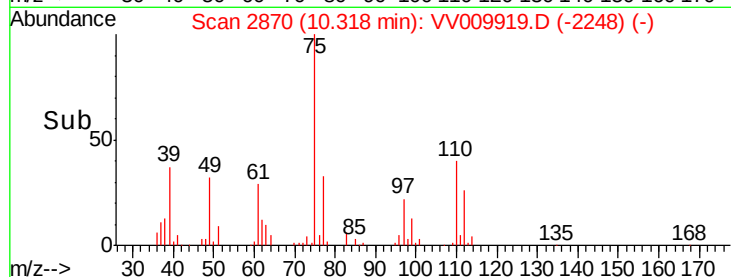
20000

10000

0

10.25 10.30 10.35

Time-->



#62

Bromoform

Concen: 23.739 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

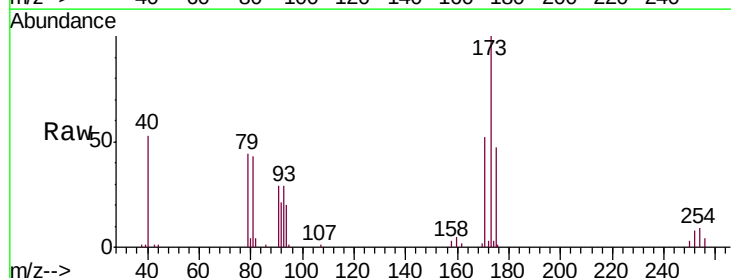
Tgt Ion: 173 Resp: 28107

Ion Ratio Lower Upper

173 100

175 48.9 37.8 56.8

254 8.7 6.6 9.8



Abundance Ion 173.00 (172.70 to 173.70): VV009895.D (-2691) (-)

Ion 175.00 (174.70 to 175.70): VV009895.D (-2691) (-)

Ion 254.00 (253.70 to 254.70): VV009895.D (-2691) (-)

9.77

20000

15000

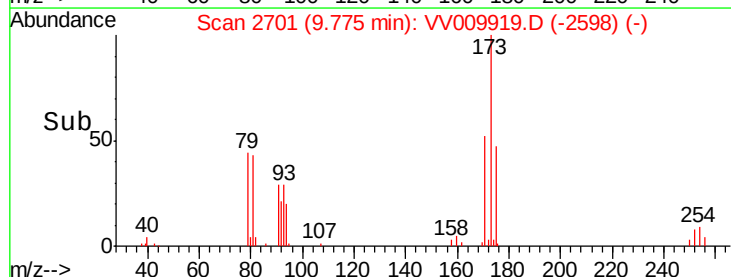
10000

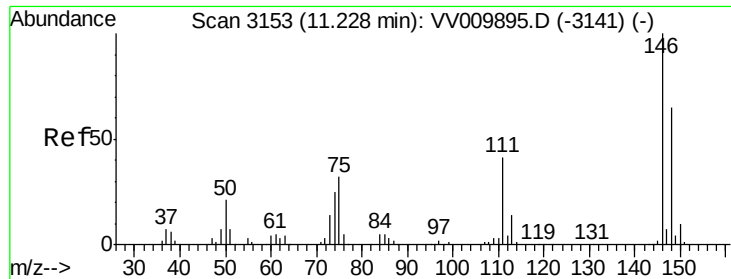
5000

0

9.70 9.75 9.80 9.85

Time-->

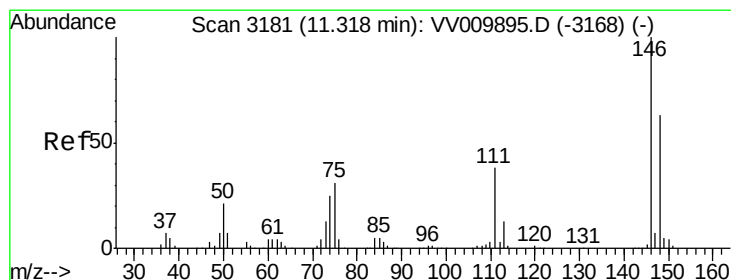
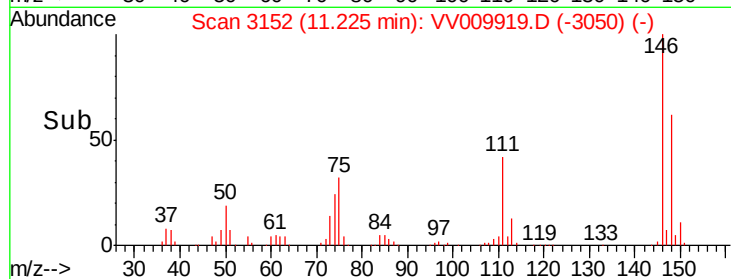
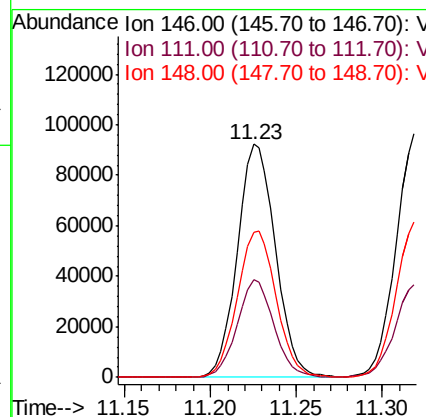
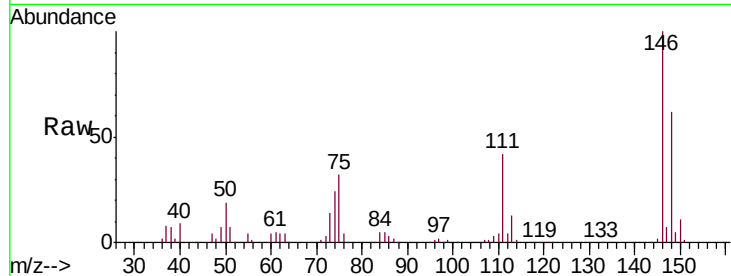




#63
 1,3-Dichlorobenzene
 Concen: 25.084 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV009919.D
 Acq: 27 Mar 2019 10:15

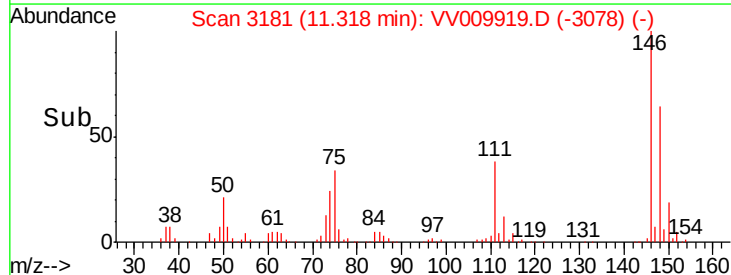
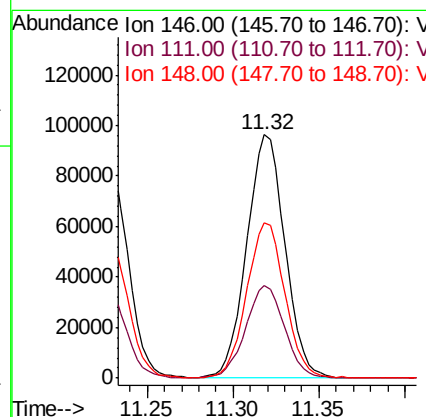
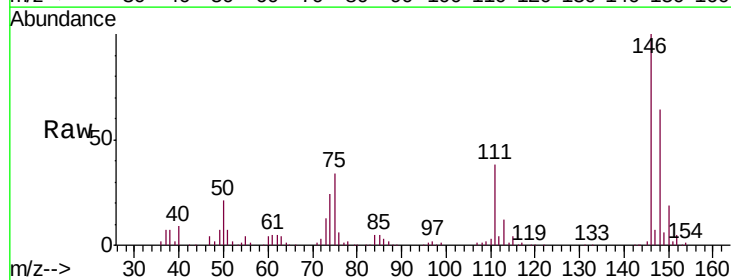
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02566

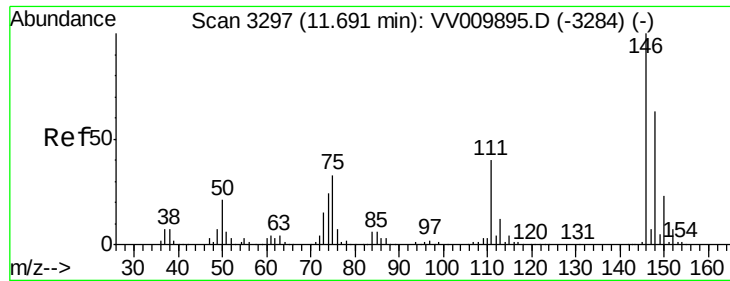
Tgt Ion:146 Resp: 142815
 Ion Ratio Lower Upper
 146 100
 111 41.7 28.5 52.9
 148 62.3 45.0 83.6



#64
 1,4-Dichlorobenzene
 Concen: 23.914 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV009919.D
 Acq: 27 Mar 2019 10:15

Tgt Ion:146 Resp: 147966
 Ion Ratio Lower Upper
 146 100
 111 38.2 25.4 47.2
 148 64.0 44.1 81.9





#65

1,2-Dichlorobenzene

Concen: 24.344 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

Instrument :

MSVOA_V

ClientSampleId :

VSTD02566

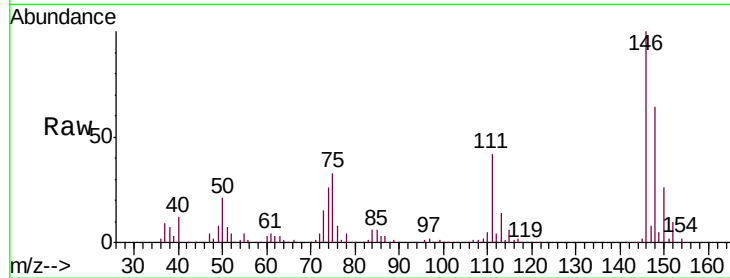
Tgt Ion:146 Resp: 136784

Ion Ratio Lower Upper

146 100

111 42.1 32.7 49.1

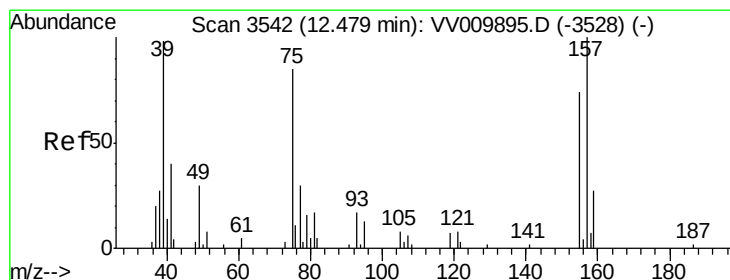
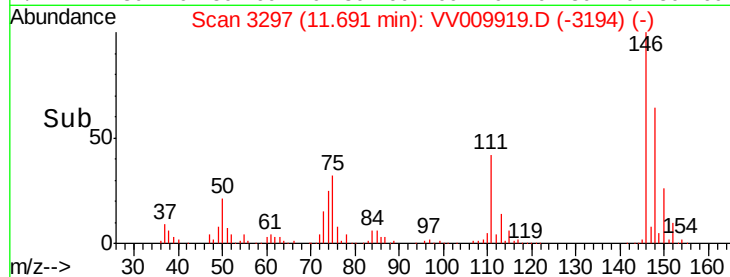
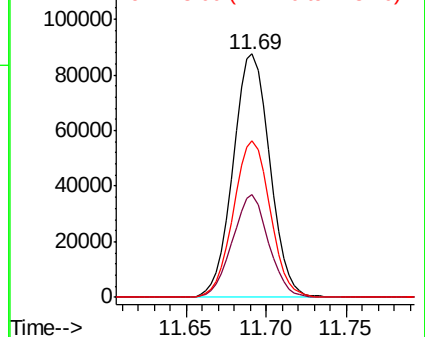
148 64.4 50.5 75.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 22.976 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

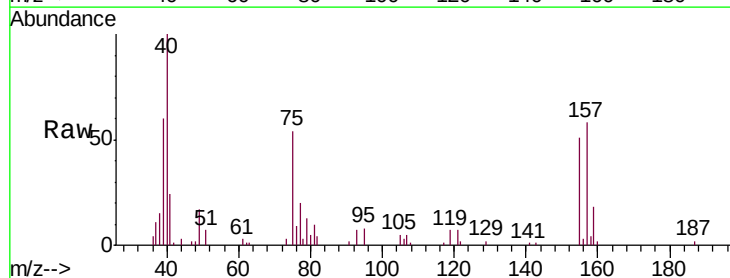
Tgt Ion: 75 Resp: 8069

Ion Ratio Lower Upper

75 100

157 107.7 89.2 133.8

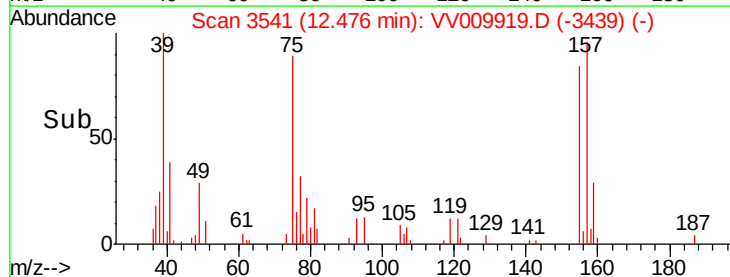
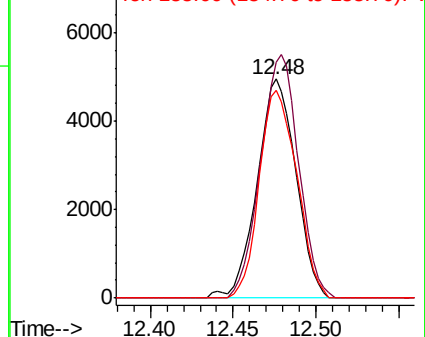
155 95.0 68.6 102.8

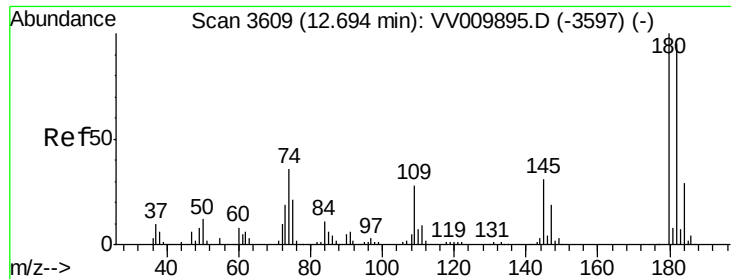


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

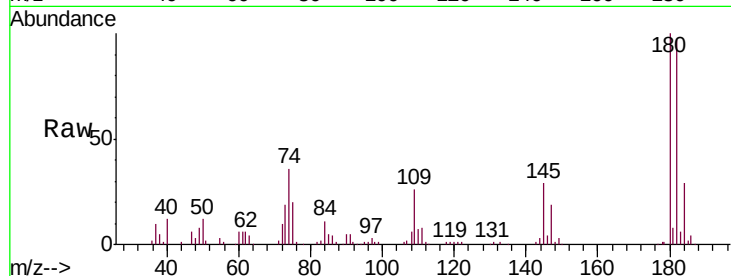




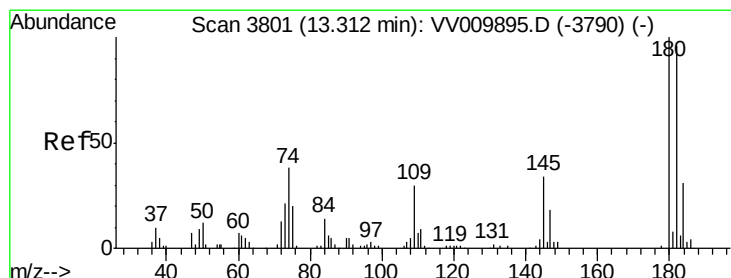
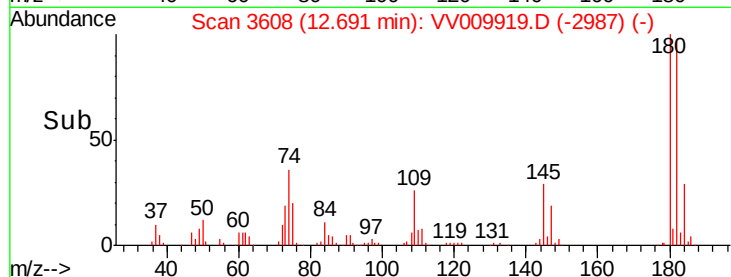
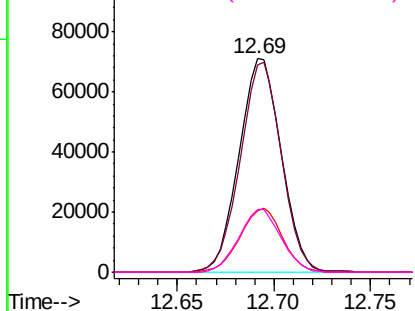
#67
 1,3,5-Trichlorobenzene
 Concen: 26.650 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV009919.D
 Acq: 27 Mar 2019 10:15

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02566

Tgt Ion:180 Resp: 107755
 Ion Ratio Lower Upper
 180 100
 182 95.8 78.4 117.6
 184 30.1 24.3 36.5
 145 29.5 24.9 37.3

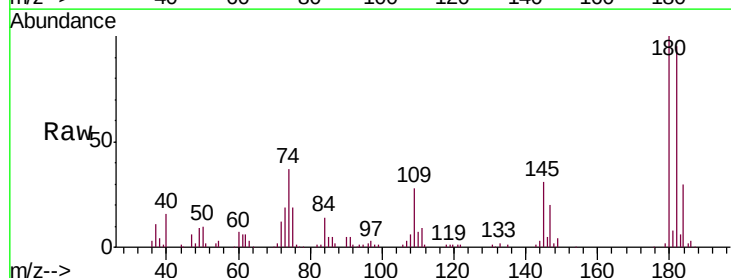


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

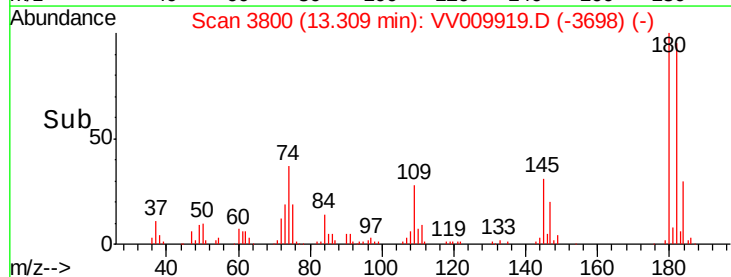
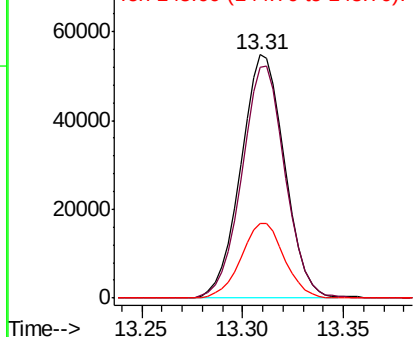


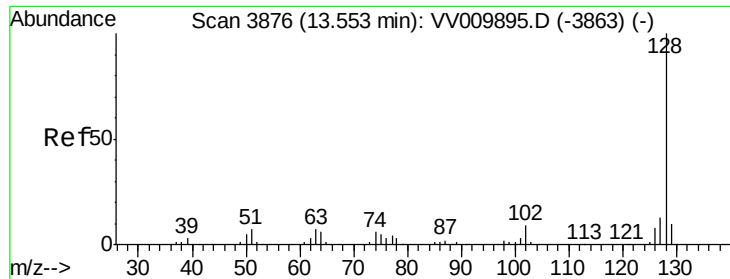
#68
 1,2,4-trichlorobenzene
 Concen: 27.969 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV009919.D
 Acq: 27 Mar 2019 10:15

Tgt Ion:180 Resp: 83421
 Ion Ratio Lower Upper
 180 100
 182 94.4 75.5 113.3
 145 30.4 23.2 34.8



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: 26.754 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

Instrument :

MSVOA_V

ClientSampled :

VSTD02566

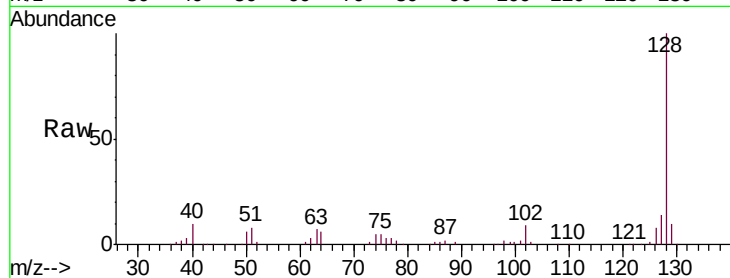
Tgt Ion:128 Resp: 132644

Ion Ratio Lower Upper

128 100

129 10.6 8.8 13.2

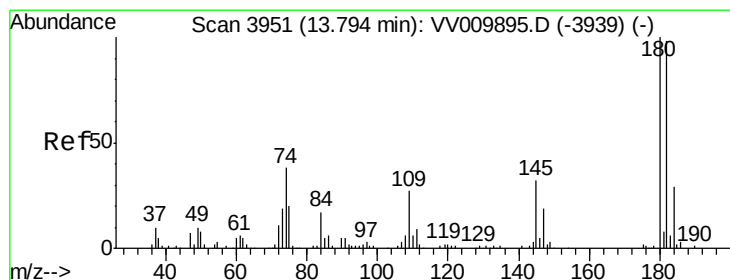
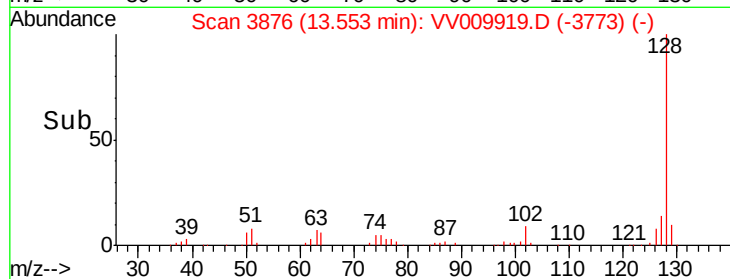
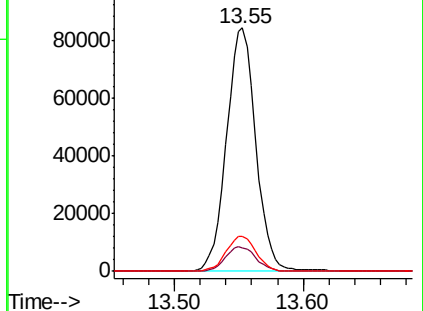
127 14.6 11.4 17.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 26.005 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009919.D

Acq: 27 Mar 2019 10:15

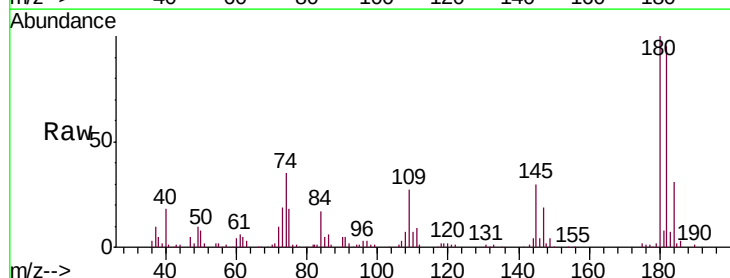
Tgt Ion:180 Resp: 73751

Ion Ratio Lower Upper

180 100

182 97.4 77.1 115.7

145 31.1 26.3 39.5



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

