

Data File : VU028954.D
Acq On : 27 Dec 2018 09:00
Operator : MD/SY
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Quant Time: Dec 28 00:44:28 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Dec 25 00:02:36 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	267288	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	251811	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	125308	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	92251	43.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.10%
7) Chloroethane-d5	1.67	69	76621	46.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.58%
11) 1,1-Dichloroethene-d2	2.27	63	180105	49.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.96%
21) 2-Butanone-d5	4.17	46	138652	92.35	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.35%
24) Chloroform-d	4.64	84	171742	50.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.94%
26) 1,2-Dichloroethane-d4	5.31	65	102138	49.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.34%
32) Benzene-d6	5.34	84	356349	50.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.18%
36) 1,2-Dichloropropane-d6	6.33	67	116069	48.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.06%
41) Toluene-d8	7.56	98	333441	51.72	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.44%
43) trans-1,3-Dichloropropene-	7.85	79	56713	52.37	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	104.74%
47) 2-Hexanone-d5	8.31	63	119920	104.48	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.48%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	170877	50.97	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.94%
64) 1,2-Dichlorobenzene-d4	11.86	152	135264	53.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.74%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	109441	50.214 ug/L	98
3) Chloromethane	1.33	50	118993	40.151 ug/L	98
5) Vinyl chloride	1.40	62	125981	48.118 ug/L	98
6) Bromomethane	1.61	94	57292	51.372 ug/L	97
8) Chloroethane	1.69	64	74908	50.125 ug/L	98
9) Trichlorofluoromethane	1.88	101	155750	58.174 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	103638	59.829 ug/L	97
12) 1,1-Dichloroethene	2.28	96	99780	58.222 ug/L	81
13) Acetone	2.32	43	160126	104.659 ug/L	98
14) Carbon disulfide	2.48	76	289270	48.335 ug/L	98
15) Methyl Acetate	2.61	43	102504	42.973 ug/L	92
16) Methylene chloride	2.70	84	108117	51.157 ug/L	91
17) trans-1,2-Dichloroethene	2.98	96	99647	53.668 ug/L	94
18) Methyl tert-butyl Ether	3.00	73	311701	54.594 ug/L	96
19) 1,1-Dichloroethane	3.44	63	179194	49.648 ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	115034	54.693 ug/L	91
22) 2-Butanone	4.26	43	183768	98.635 ug/L	93

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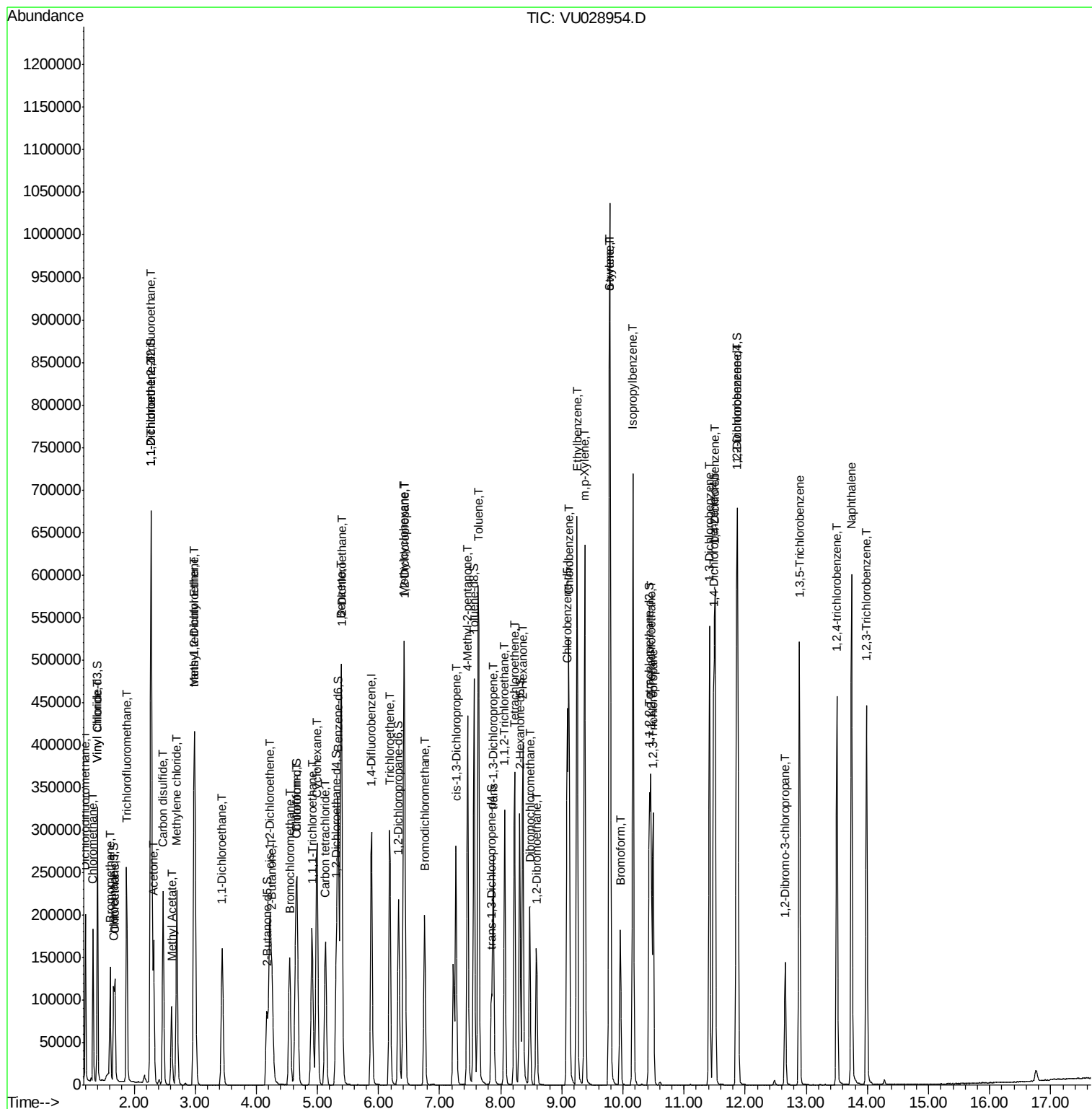
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	56169	56.020	ug/L	83
25) Chloroform	4.67	83	180230	52.464	ug/L	99
27) 1,2-Dichloroethane	5.40	62	133364	52.237	ug/L	97
29) Cyclohexane	4.99	56	165373	49.343	ug/L	92
30) 1,1,1-Trichloroethane	4.91	97	149451	56.074	ug/L	98
31) Carbon tetrachloride	5.13	117	123344	57.389	ug/L	100
33) Benzene	5.39	78	416857	51.999	ug/L	100
34) Trichloroethene	6.18	95	106544	55.049	ug/L	95
35) Methylcyclohexane	6.41	83	176050	54.614	ug/L	94
37) 1,2-Dichloropropane	6.43	63	112069	50.009	ug/L	99
38) Bromodichloromethane	6.76	83	137676	55.478	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	177452	55.543	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	277774	92.220	ug/L #	94
42) Toluene	7.64	91	450188	55.398	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	159298	55.935	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	106044	55.345	ug/L	98
46) Tetrachloroethene	8.22	164	88094	59.099	ug/L	96
48) 2-Hexanone	8.36	43	240953	97.465	ug/L #	94
49) Dibromochloromethane	8.48	129	111516	58.431	ug/L	99
50) 1,2-Dibromoethane	8.58	107	115366	57.870	ug/L	100
51) Chlorobenzene	9.12	112	290483	56.717	ug/L	98
52) Ethylbenzene	9.25	91	494061	56.581	ug/L	97
53) m,p-Xylene	9.37	106	190326	58.943	ug/L	95
54) o-xylene	9.78	106	185473	57.311	ug/L	98
55) Styrene	9.79	104	321699	58.693	ug/L	98
56) Isopropylbenzene	10.16	105	485339	59.117	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	181741	52.212	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	137014	51.234	ug/L	100
61) Bromoform	9.96	173	87849	56.554	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	230394	57.879	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	231373	56.417	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	233956	56.342	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	35942	50.180	ug/L	89
67) 1,3,5-Trichlorobenzene	12.89	180	176689	60.203	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	153274	62.365	ug/L	99
69) Naphthalene	13.74	128	503034	58.953	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	154991	58.484	ug/L	99

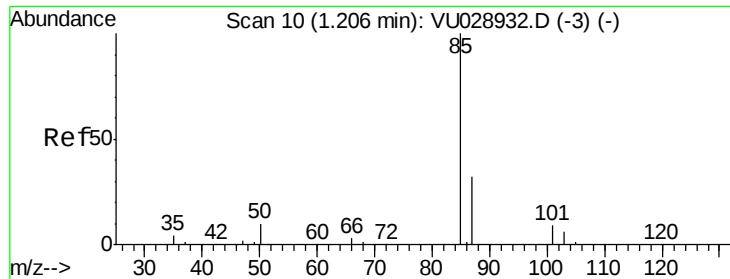
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 50.214 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

Instrument :

MSVOA_U

ClientSampleId :

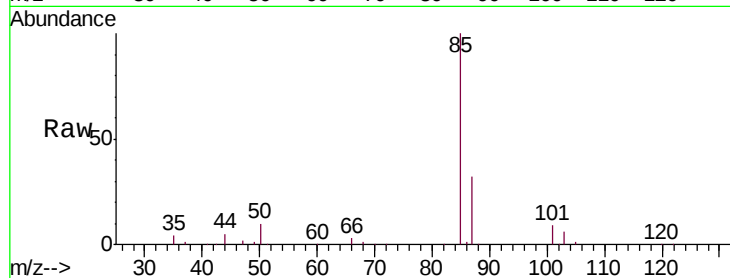
VSTD05048

Tgt Ion: 85 Resp: 109441

Ion Ratio Lower Upper

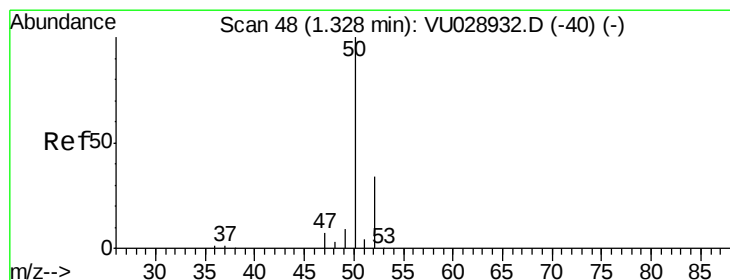
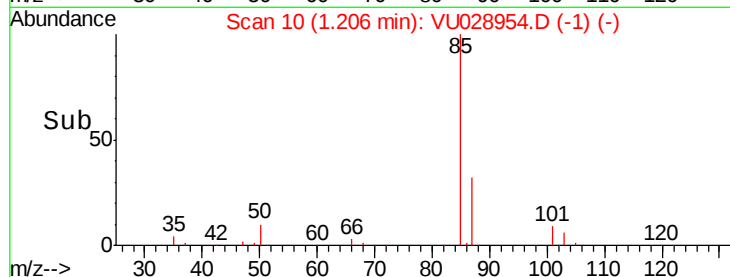
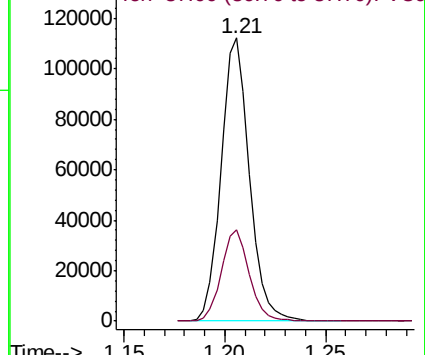
85 100

87 31.7 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 40.151 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028954.D

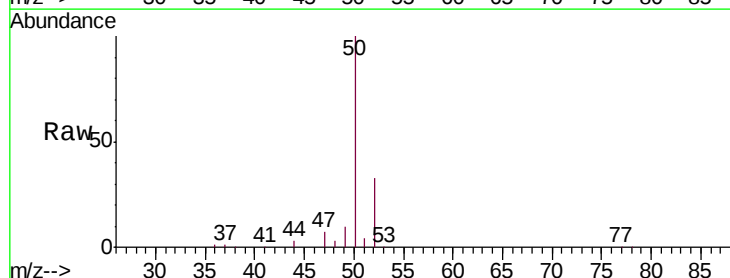
Acq: 27 Dec 2018 09:00

Tgt Ion: 50 Resp: 118993

Ion Ratio Lower Upper

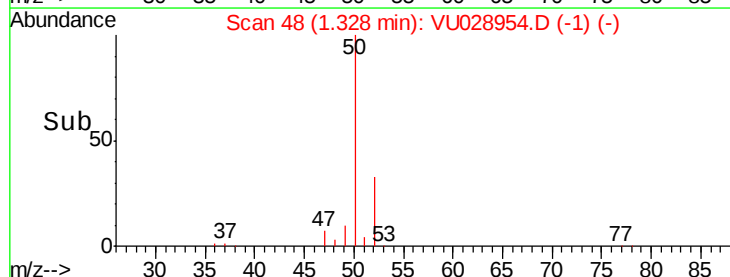
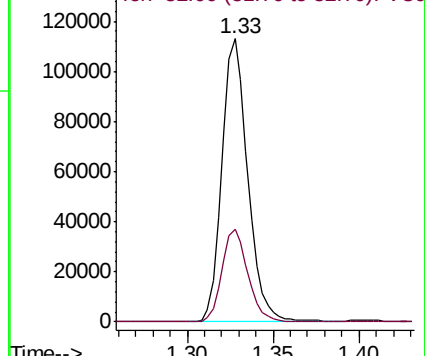
50 100

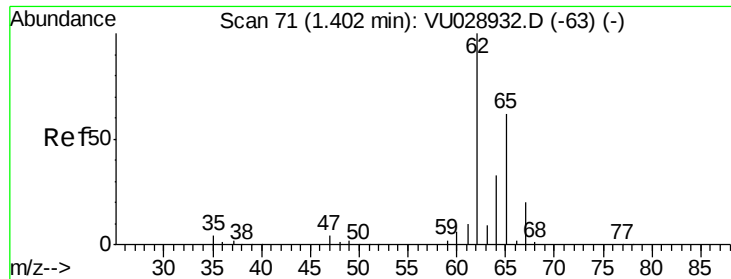
52 32.8 22.3 41.3



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 48.118 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

Instrument :

MSVOA_U

ClientSampleId :

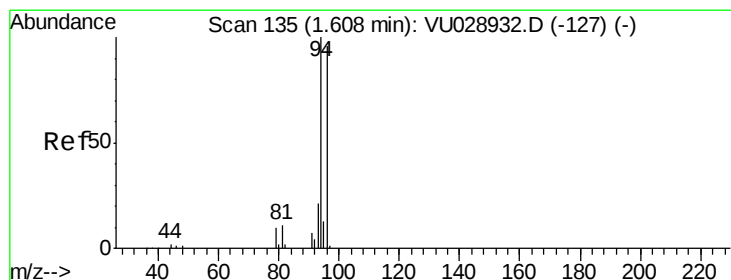
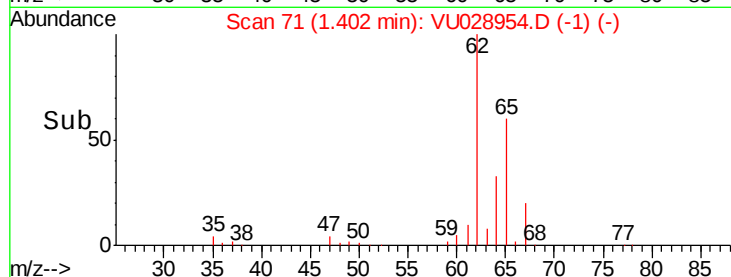
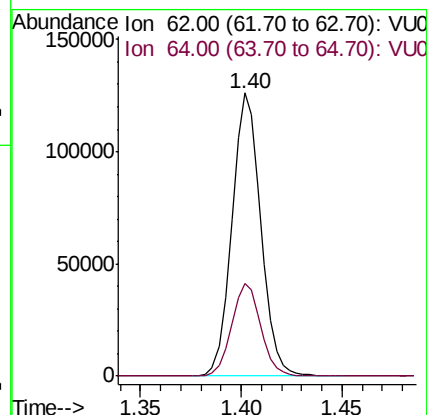
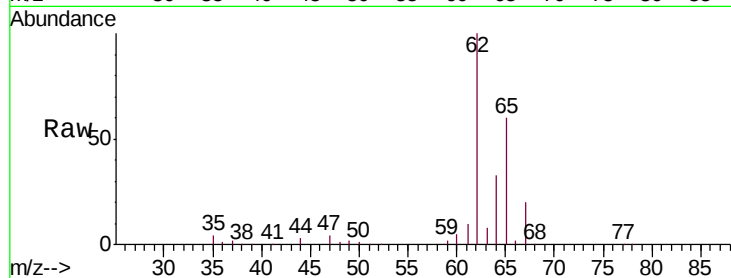
VSTD05048

Tgt Ion: 62 Resp: 125981

Ion Ratio Lower Upper

62 100

64 32.8 22.3 41.3



#6

Bromomethane

Concen: 51.372 ug/L

RT: 1.61 min Scan# 135

Delta R.T. -0.00 min

Lab File: VU028954.D

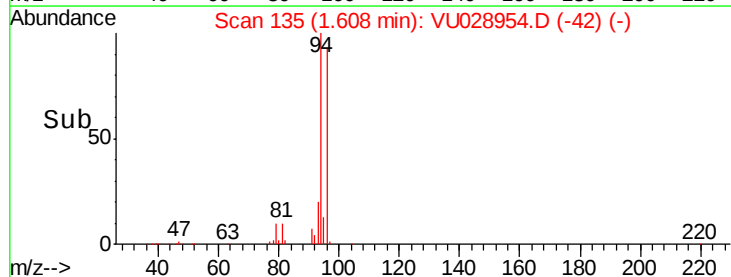
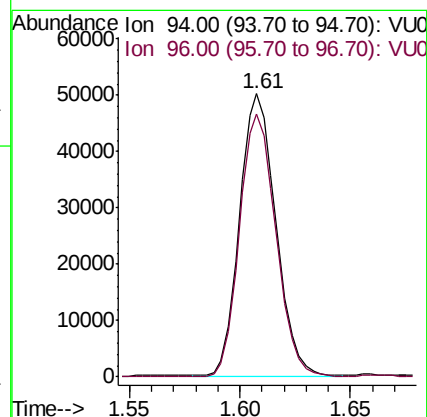
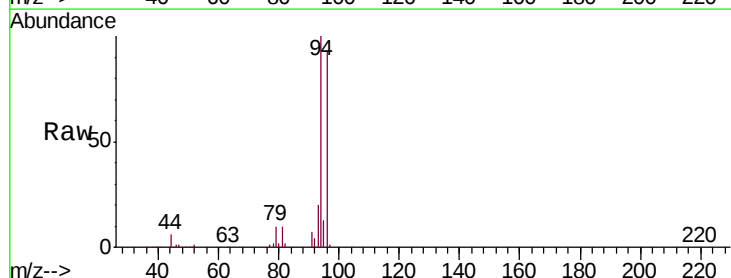
Acq: 27 Dec 2018 09:00

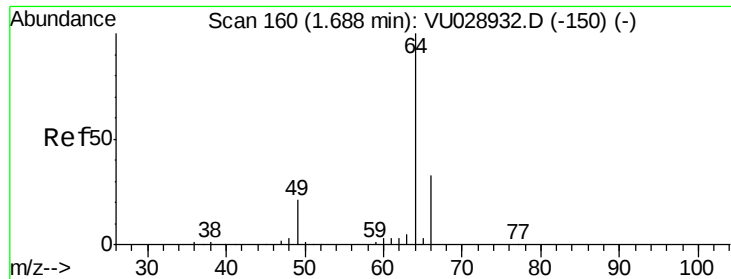
Tgt Ion: 94 Resp: 57292

Ion Ratio Lower Upper

94 100

96 92.9 67.3 125.1





#8

Chloroethane

Concen: 50.125 ug/L

RT: 1.69 min Scan# 160

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

Instrument :

MSVOA_U

ClientSampleId :

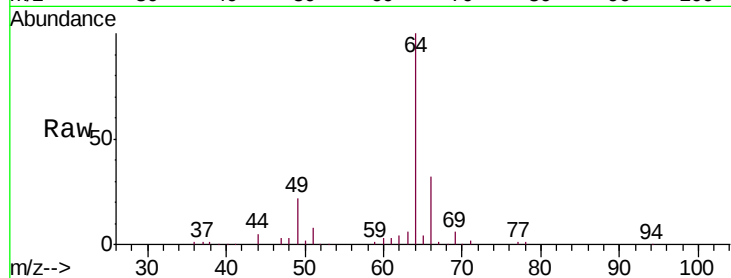
VSTD05048

Tgt Ion: 64 Resp: 74908

Ion Ratio Lower Upper

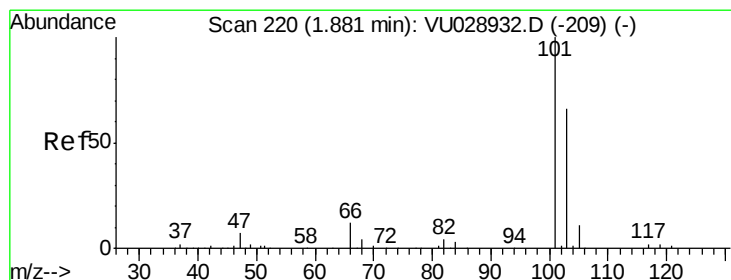
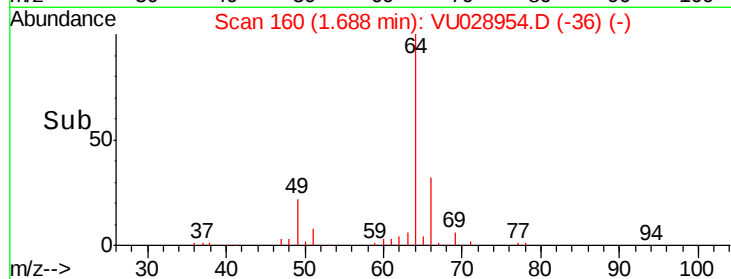
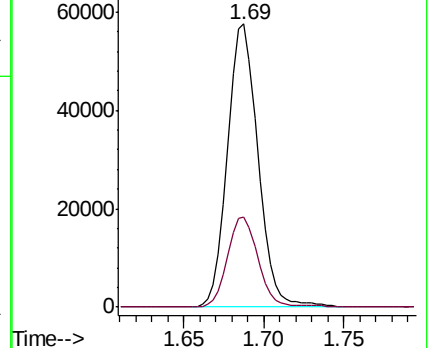
64 100

66 31.9 21.5 39.9



Abundance Ion 64.00 (63.70 to 64.70): VU028932.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VU028932.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 58.174 ug/L

RT: 1.88 min Scan# 220

Delta R.T. -0.00 min

Lab File: VU028954.D

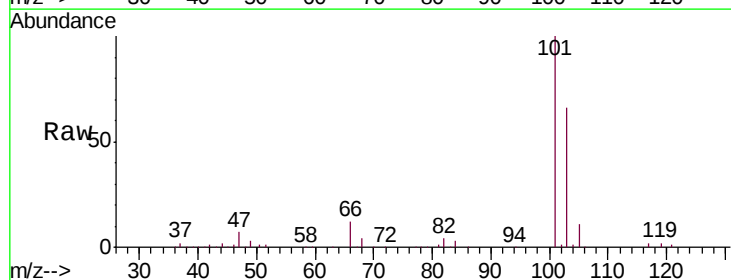
Acq: 27 Dec 2018 09:00

Tgt Ion: 101 Resp: 155750

Ion Ratio Lower Upper

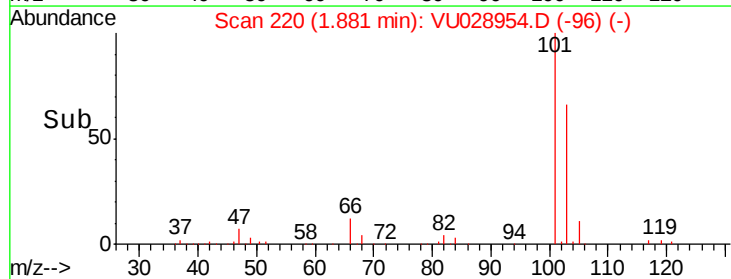
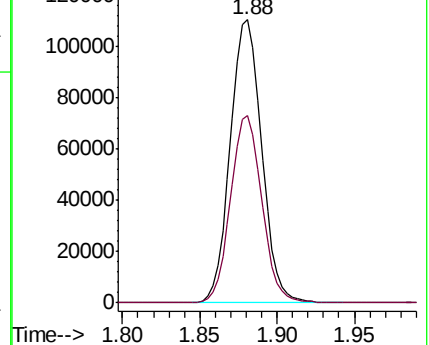
101 100

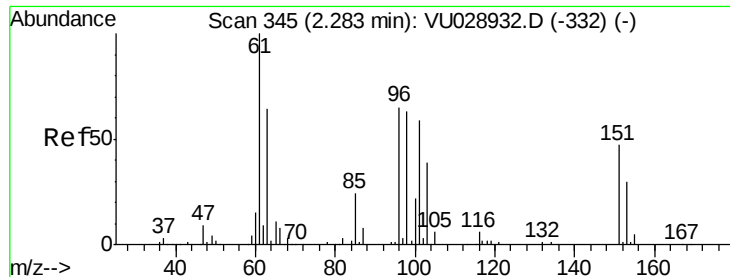
103 65.9 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU028932.D (-209) (-)

Ion 103.00 (102.70 to 103.70): VU028932.D (-209) (-)





#10

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

Concen: 59.829 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

Instrument :

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ClientSampleId :

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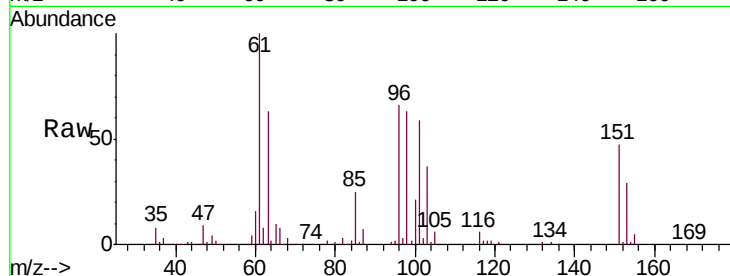
Tgt Ion: 101 Resp: 103638

Ion Ratio Lower Upper

101 100

85 41.6 33.8 50.6

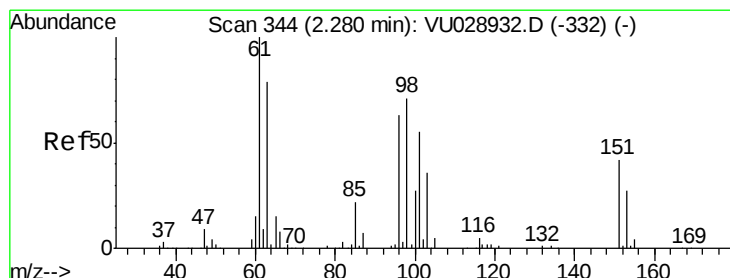
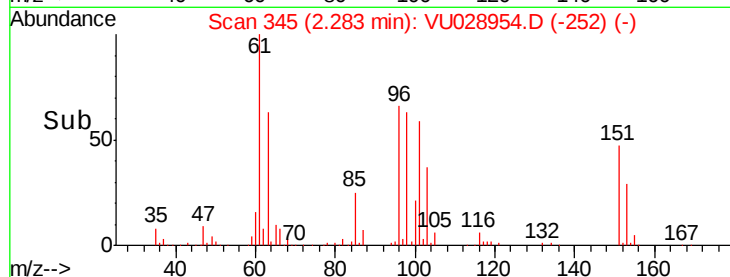
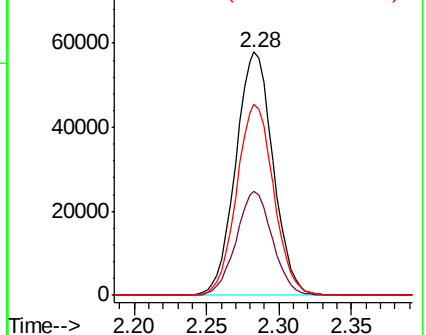
151 77.9 59.4 89.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 58.222 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

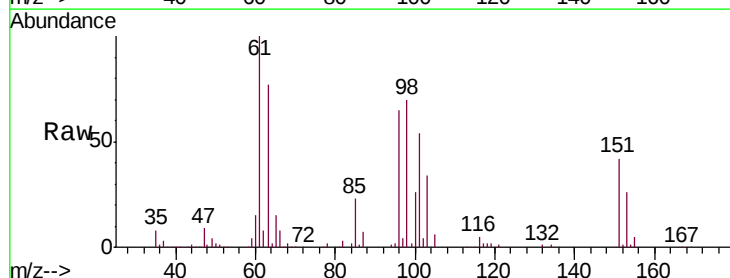
Tgt Ion: 96 Resp: 99780

Ion Ratio Lower Upper

96 100

61 154.5 119.3 221.5

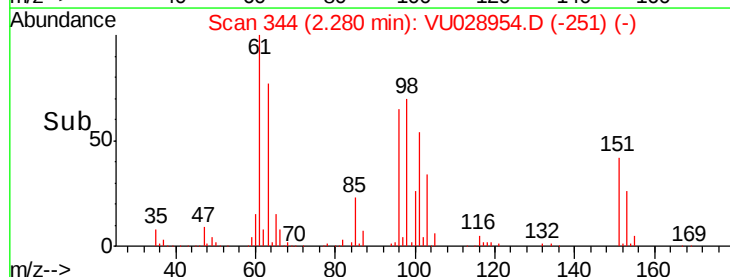
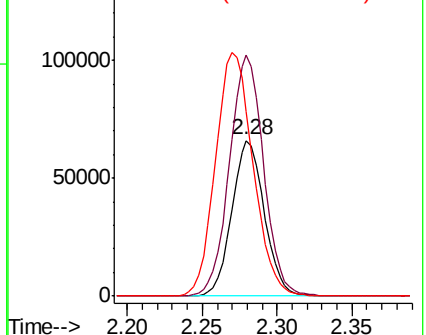
63 118.3 107.4 199.6

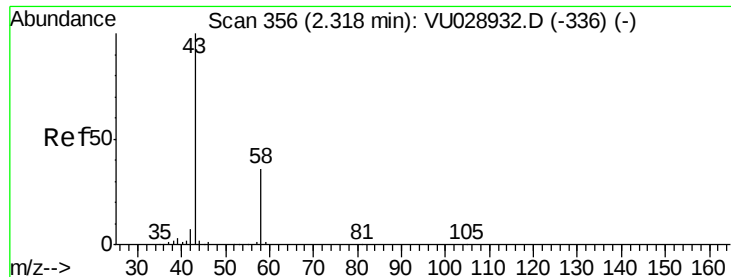


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 104.659 ug/L

RT: 2.32 min Scan# 356

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

Instrument :

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ClientSampleId :

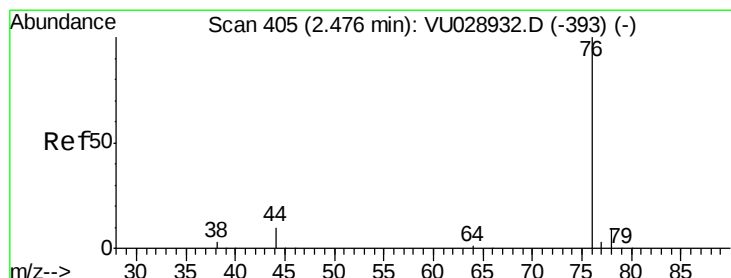
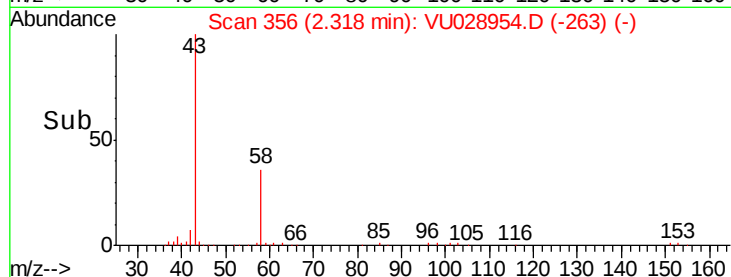
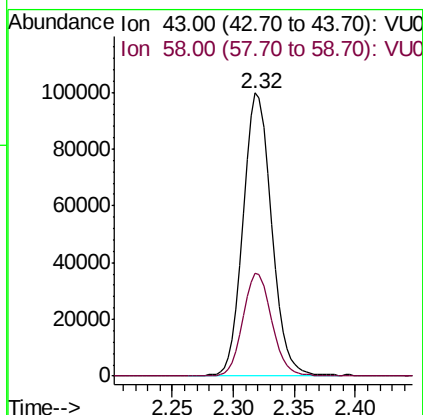
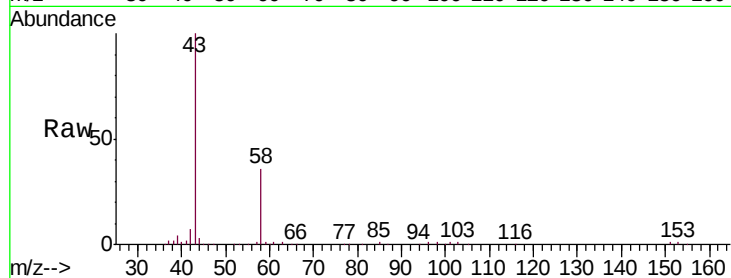
VSTD05048

Tgt Ion: 43 Resp: 160126

Ion Ratio Lower Upper

43 100

58 36.2 0.0 70.2



#14

Carbon disulfide

Concen: 48.335 ug/L

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU028954.D

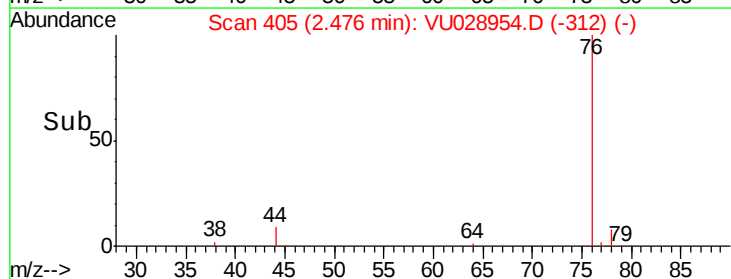
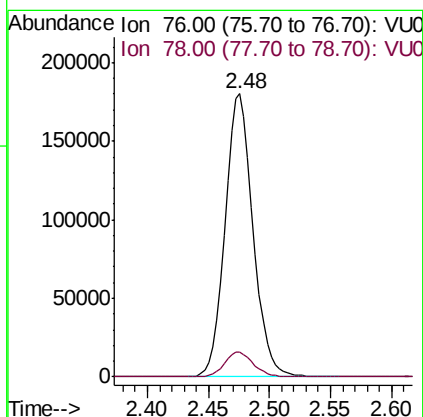
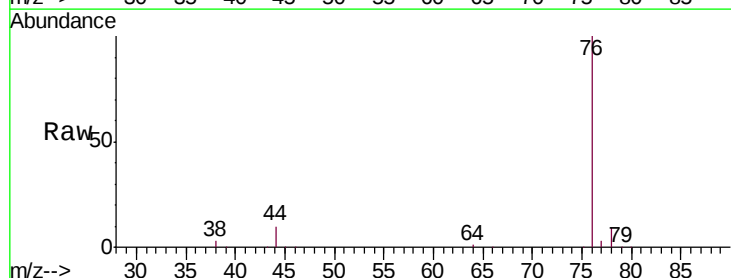
Acq: 27 Dec 2018 09:00

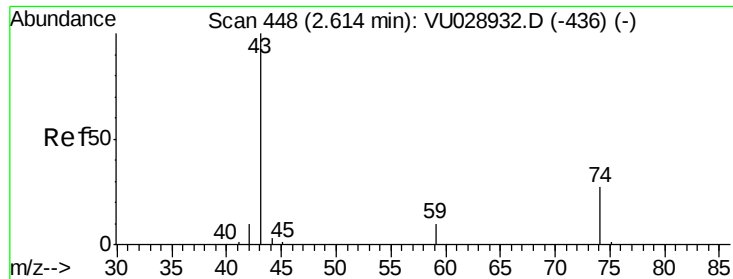
Tgt Ion: 76 Resp: 289270

Ion Ratio Lower Upper

76 100

78 8.6 7.4 11.0

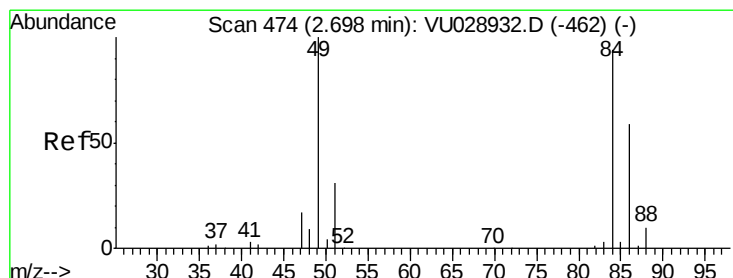
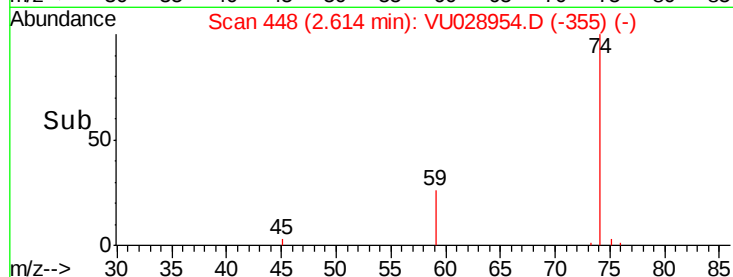
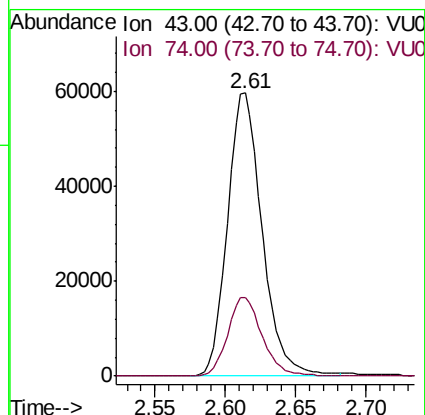
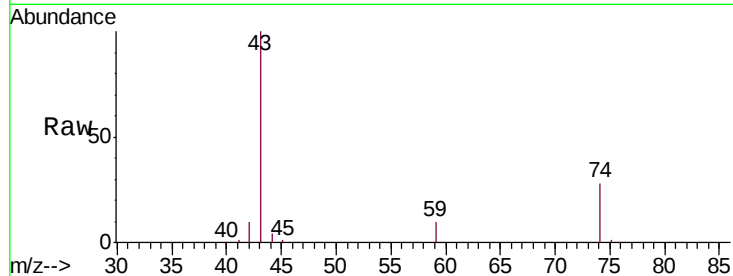




#15
Methyl Acetate
Concen: 42.973 ug/L
RT: 2.61 min Scan# 448
Delta R.T. -0.00 min
Lab File: VU028954.D
Acq: 27 Dec 2018 09:00

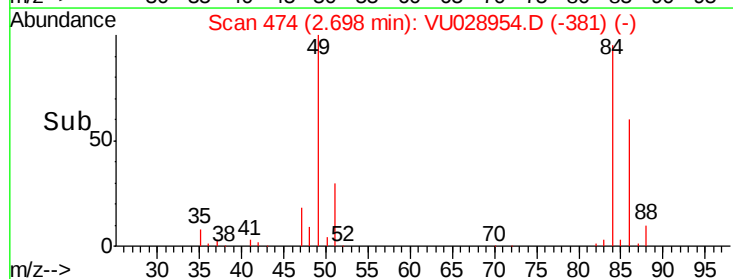
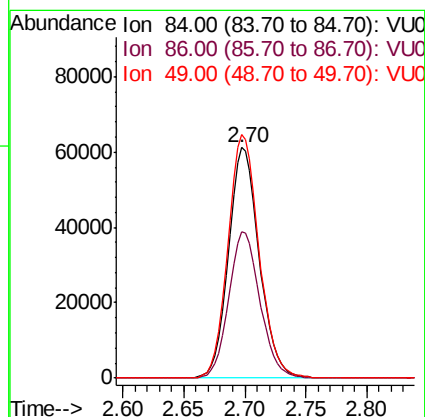
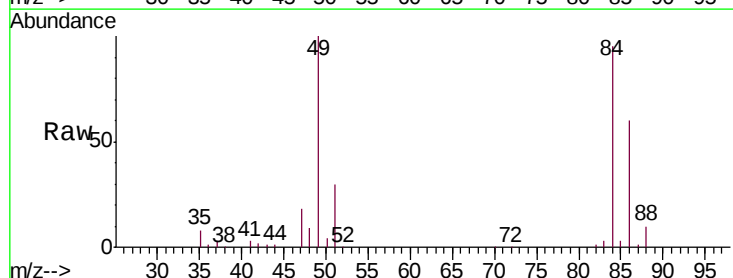
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

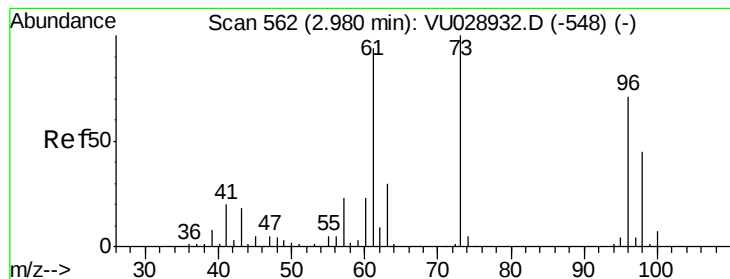
Tgt Ion: 43 Resp: 102504
Ion Ratio Lower Upper
43 100
74 27.7 19.0 28.4



#16
Methylene chloride
Concen: 51.157 ug/L
RT: 2.70 min Scan# 474
Delta R.T. -0.00 min
Lab File: VU028954.D
Acq: 27 Dec 2018 09:00

Tgt Ion: 84 Resp: 108117
Ion Ratio Lower Upper
84 100
86 63.3 44.9 83.3
49 105.6 83.9 155.7





#17

trans-1,2-Dichloroethene

Concen: 53.668 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

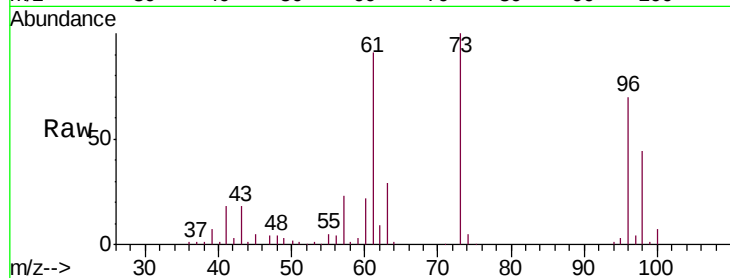
Tgt Ion: 96 Resp: 99647

Ion Ratio Lower Upper

96 100

61 130.0 97.9 181.7

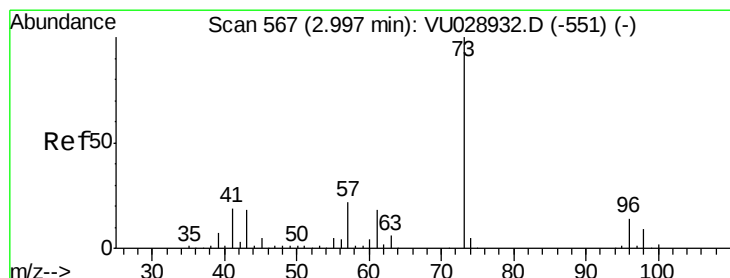
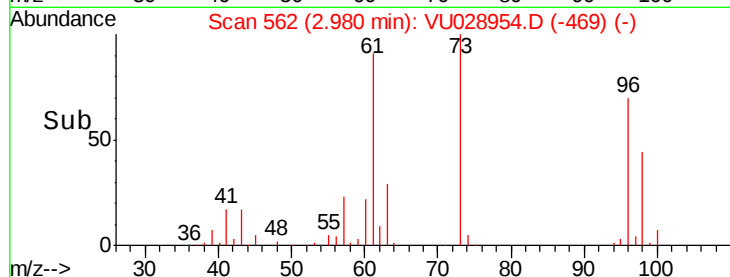
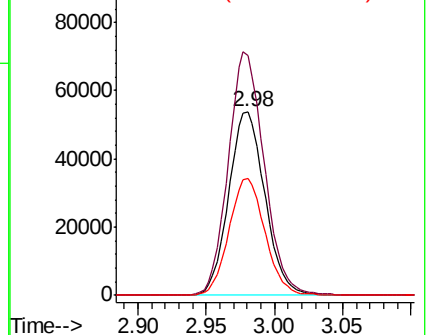
98 63.7 44.1 81.9



Abundance Ion 96.00 (95.70 to 96.70): VU028932.D (-548) (-)

Ion 61.00 (60.70 to 61.70): VU028932.D (-548) (-)

Ion 98.00 (97.70 to 98.70): VU028932.D (-548) (-)



#18

Methyl tert-butyl Ether

Concen: 54.594 ug/L

RT: 3.00 min Scan# 567

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

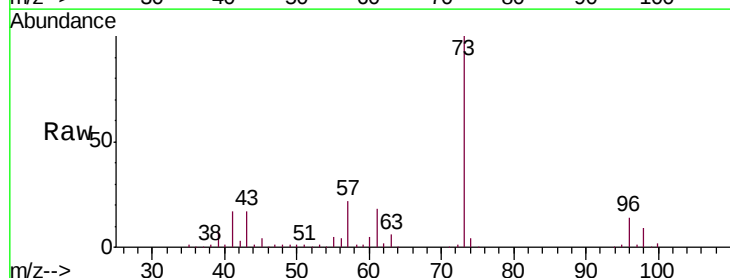
Tgt Ion: 73 Resp: 311701

Ion Ratio Lower Upper

73 100

43 17.5 15.3 22.9

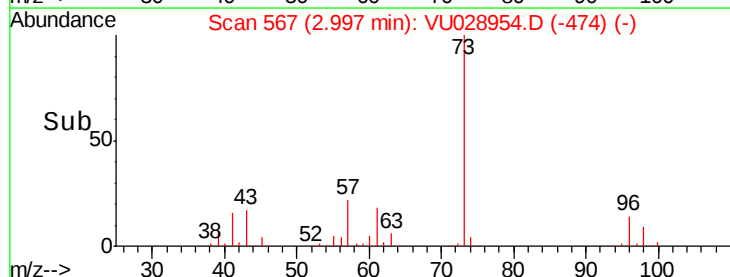
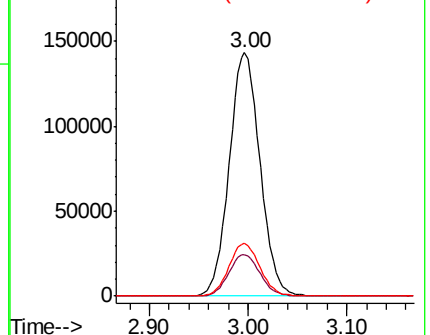
57 21.9 19.0 28.4

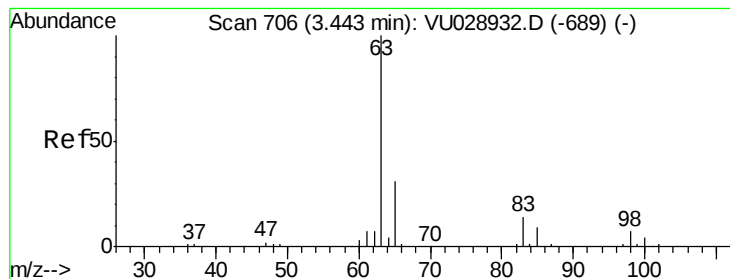


Abundance Ion 73.00 (72.70 to 73.70): VU028932.D (-551) (-)

Ion 43.00 (42.70 to 43.70): VU028932.D (-551) (-)

Ion 57.00 (56.70 to 57.70): VU028932.D (-551) (-)

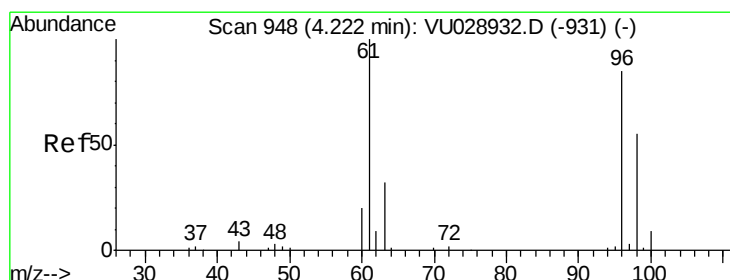
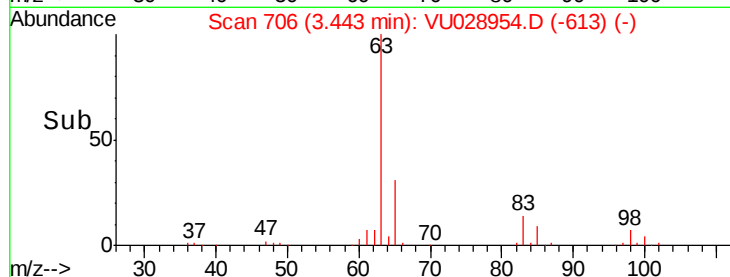
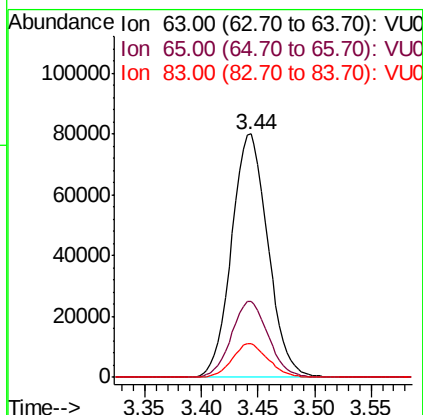
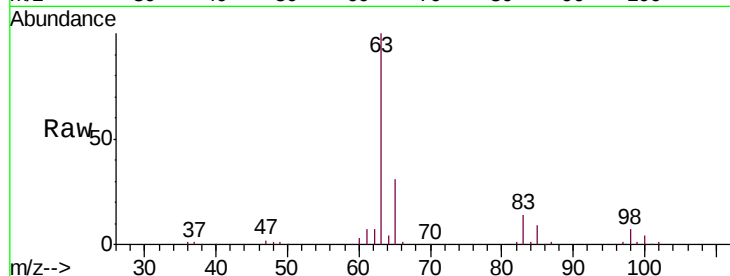




#19
 1,1-Dichloroethane
 Concen: 49.648 ug/L
 RT: 3.44 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VU028954.D
 Acq: 27 Dec 2018 09:00

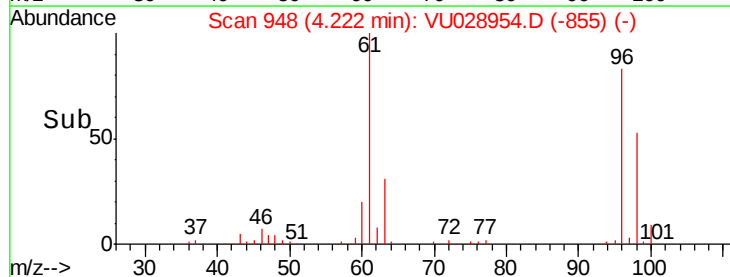
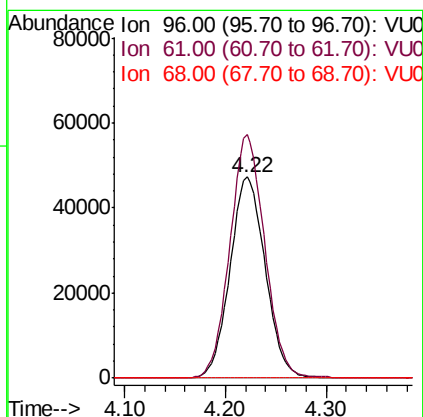
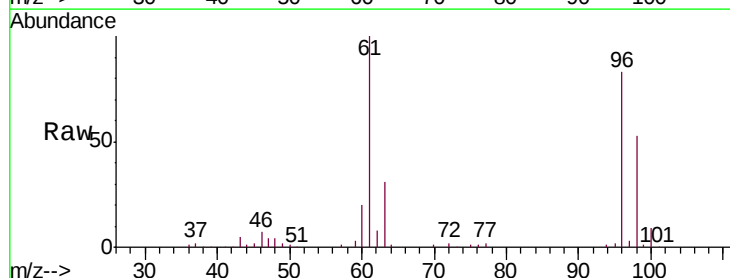
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

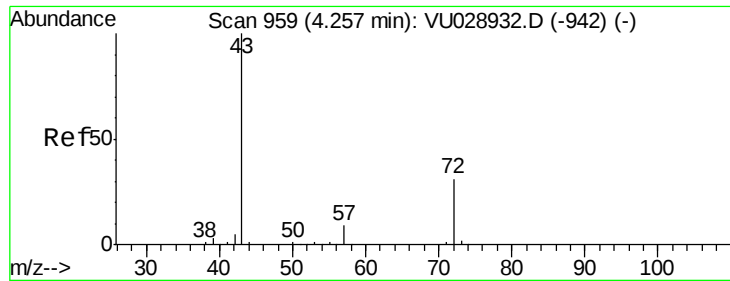
Tgt Ion: 63 Resp: 179194
 Ion Ratio Lower Upper
 63 100
 65 31.2 22.7 42.1
 83 14.0 9.0 16.8



#20
 cis-1,2-Dichloroethene
 Concen: 54.693 ug/L
 RT: 4.22 min Scan# 948
 Delta R.T. -0.00 min
 Lab File: VU028954.D
 Acq: 27 Dec 2018 09:00

Tgt Ion: 96 Resp: 115034
 Ion Ratio Lower Upper
 96 100
 61 121.1 92.1 171.1
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 98.635 ug/L

RT: 4.26 min Scan# 959

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

Instrument :

MSVOA_U

ClientSampleId :

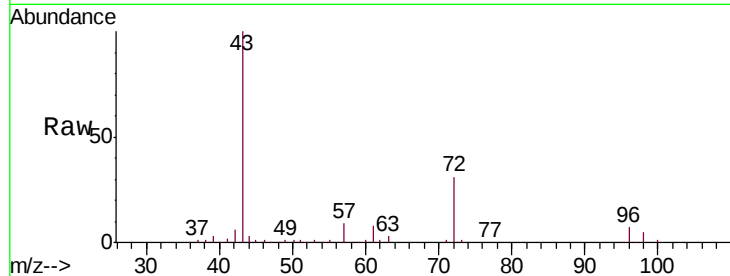
VSTD05048

Tgt Ion: 43 Resp: 183768

Ion Ratio Lower Upper

43 100

72 31.0 13.7 41.1



Abundance Ion 43.00 (42.70 to 43.70): VU028932.D (-942) (-)

Ion 72.00 (71.70 to 72.70): VU028932.D (-942) (-)

4.26

80000

60000

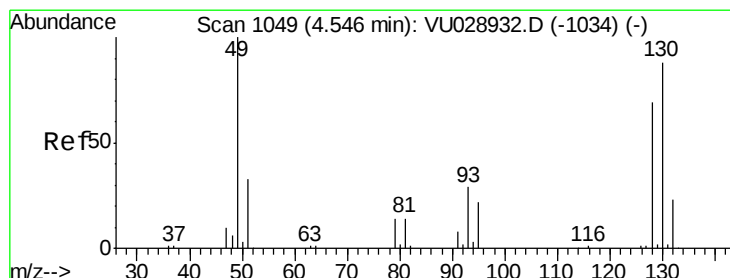
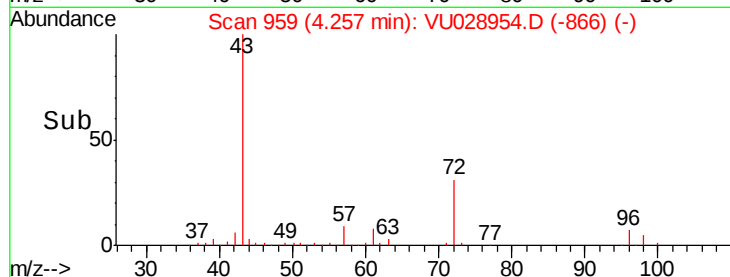
40000

20000

0

Time-->

4.10 4.20 4.30 4.40



#23

Bromochloromethane

Concen: 56.020 ug/L

RT: 4.55 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

Tgt Ion: 128 Resp: 56169

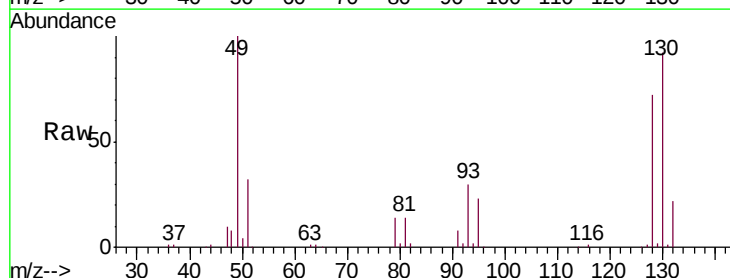
Ion Ratio Lower Upper

128 100

49 139.6 123.0 228.4

130 128.4 86.5 160.7

51 44.4 44.1 66.1



Abundance Ion 128.00 (127.70 to 128.70): VU028932.D (-1034) (-)

Ion 49.00 (48.70 to 49.70): VU028932.D (-1034) (-)

Ion 130.00 (129.70 to 130.70): VU028932.D (-1034) (-)

Ion 51.00 (50.70 to 51.70): VU028932.D (-1034) (-)

50000

40000

30000

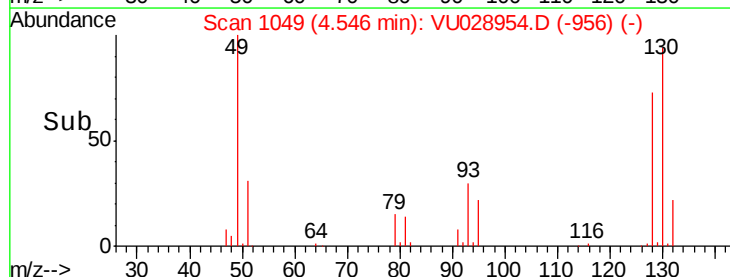
20000

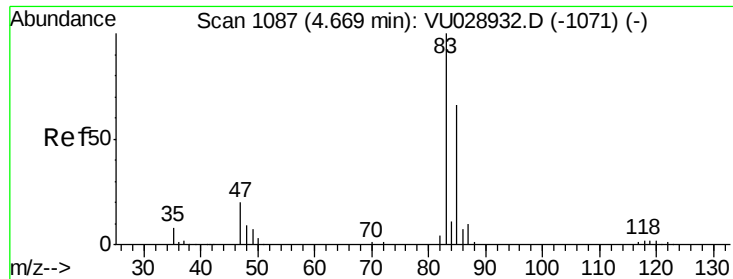
10000

0

Time-->

4.50 4.55 4.60

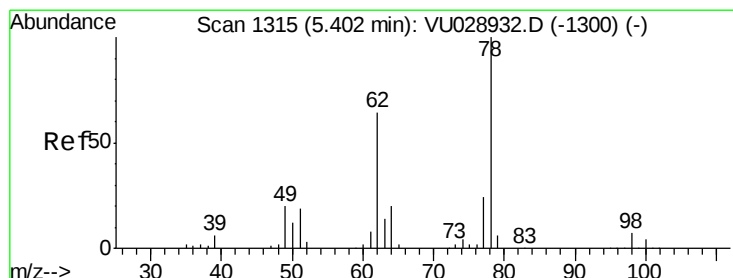
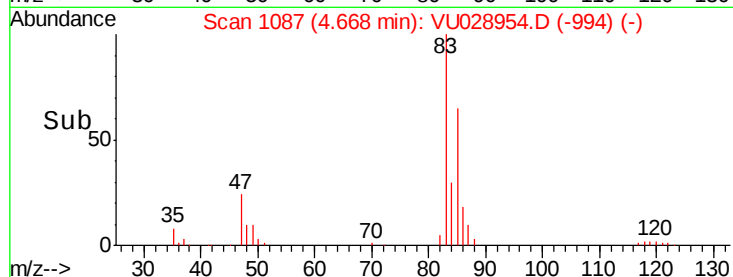
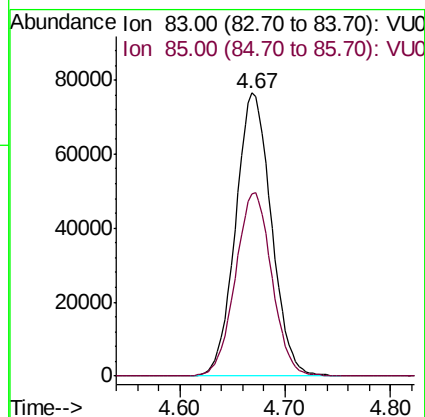
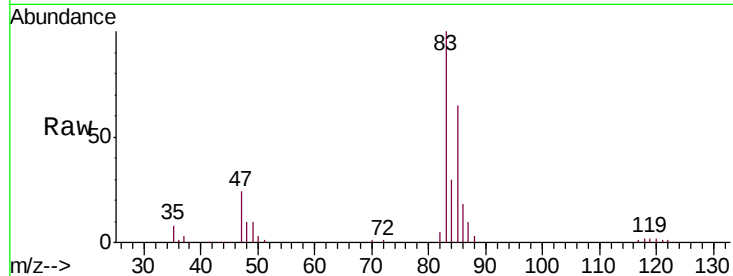




#25
Chloroform
Concen: 52.464 ug/L
RT: 4.67 min Scan# 1087
Delta R.T. -0.00 min
Lab File: VU028954.D
Acq: 27 Dec 2018 09:00

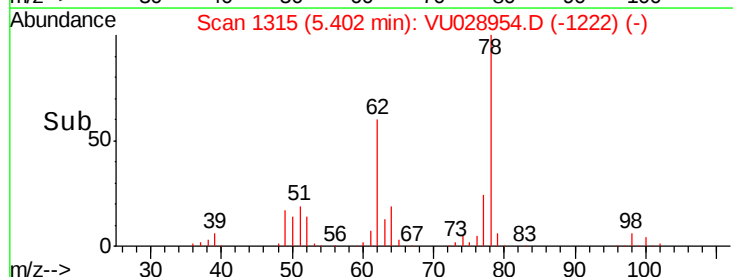
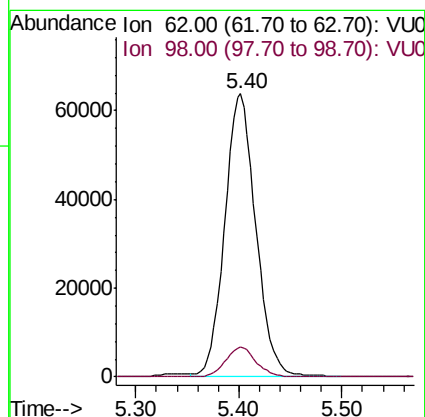
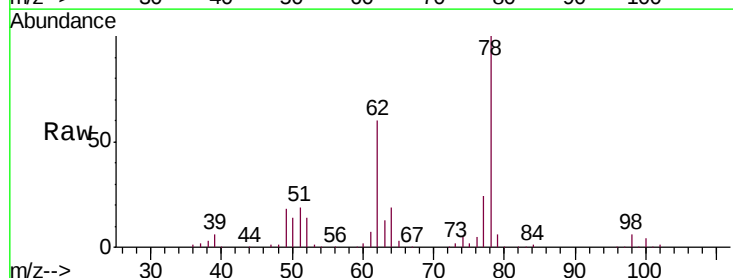
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

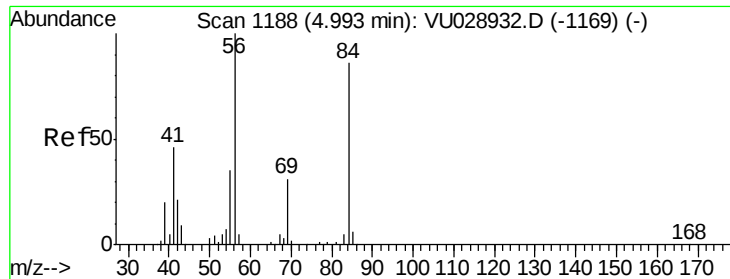
Tgt Ion: 83 Resp: 180230
Ion Ratio Lower Upper
83 100
85 64.5 45.6 84.6



#27
1,2-Dichloroethane
Concen: 52.237 ug/L
RT: 5.40 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VU028954.D
Acq: 27 Dec 2018 09:00

Tgt Ion: 62 Resp: 133364
Ion Ratio Lower Upper
62 100
98 10.5 7.5 11.3

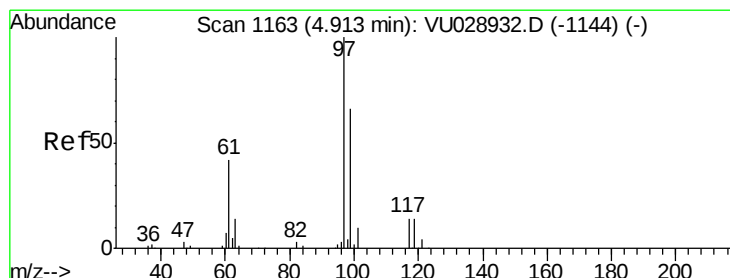
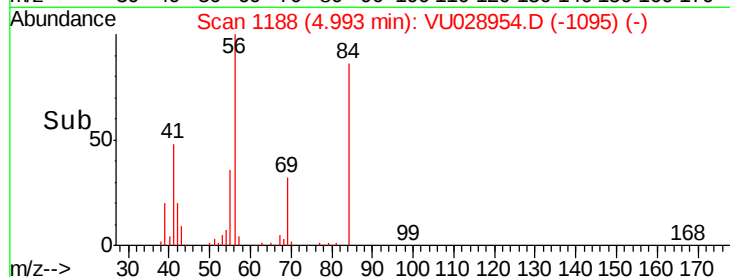
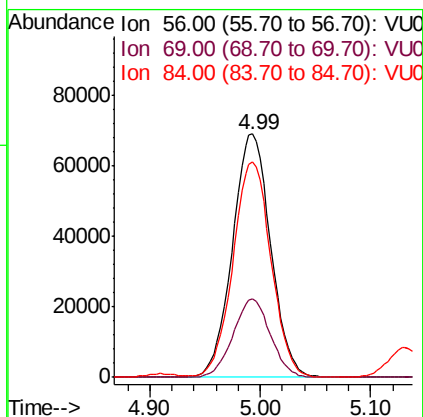
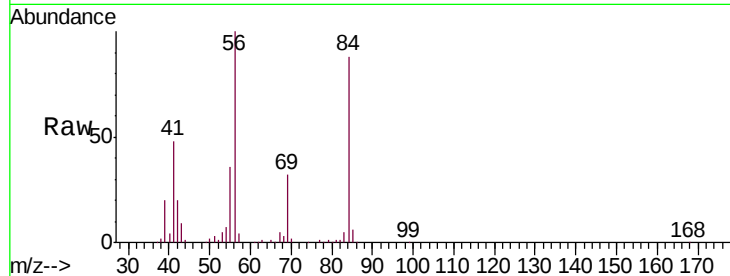




#29
Cyclohexane
Concen: 49.343 ug/L
RT: 4.99 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU028954.D
Acq: 27 Dec 2018 09:00

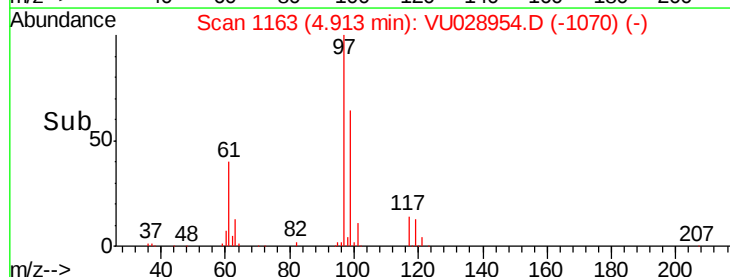
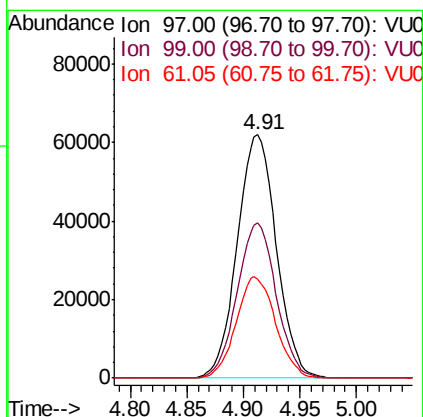
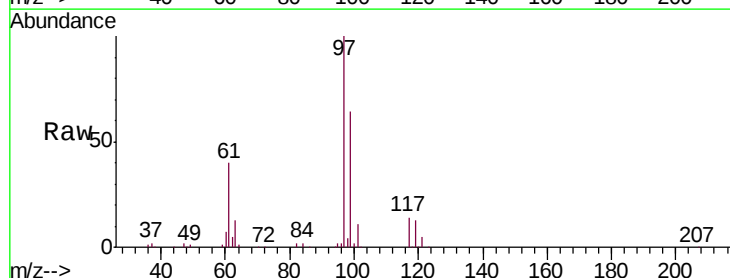
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

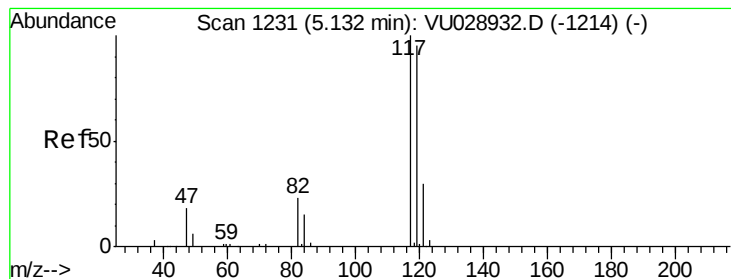
Tgt Ion	Ratio	Lower	Upper
56	100		
69	31.4	23.8	35.8
84	88.4	63.8	95.8



#30
1,1,1-Trichloroethane
Concen: 56.074 ug/L
RT: 4.91 min Scan# 1163
Delta R.T. -0.00 min
Lab File: VU028954.D
Acq: 27 Dec 2018 09:00

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.2	76.8
61	41.9	36.1	54.1





#31

Carbon tetrachloride

Concen: 57.389 ug/L

RT: 5.13 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

Instrument :

MSVOA_U

ClientSampleId :

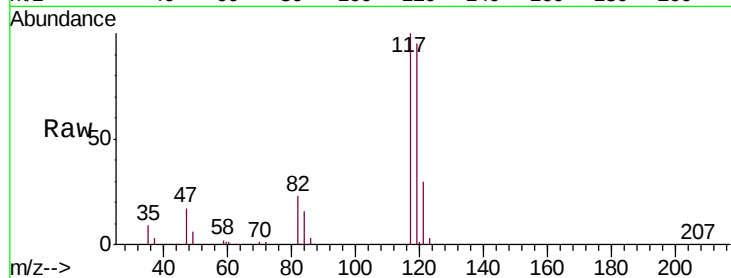
VSTD05048

Tgt Ion:117 Resp: 123344

Ion Ratio Lower Upper

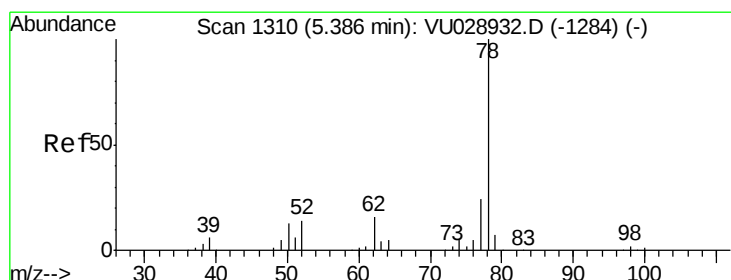
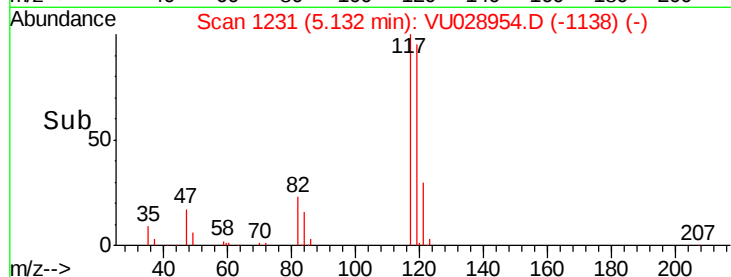
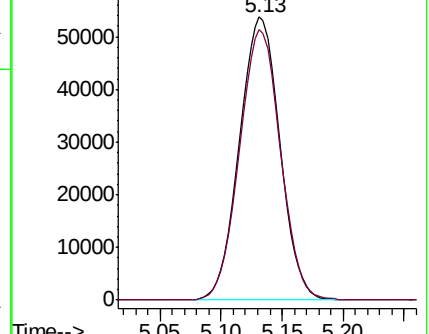
117 100

119 96.6 77.0 115.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.999 ug/L

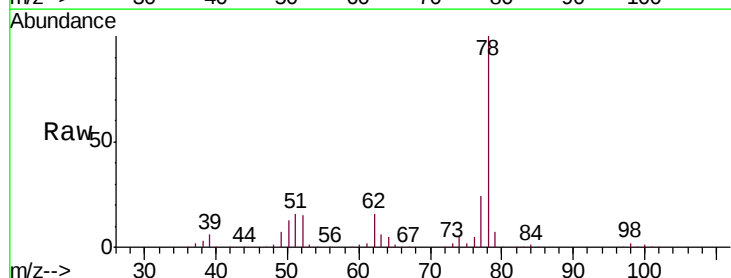
RT: 5.39 min Scan# 1310

Delta R.T. -0.00 min

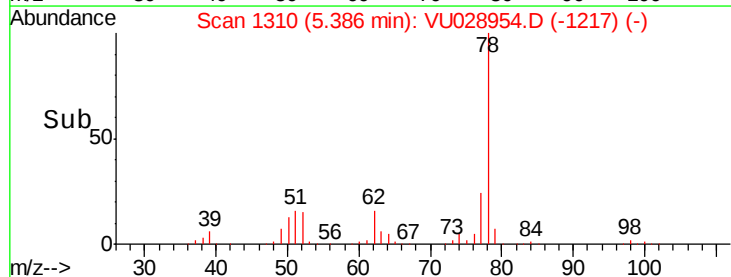
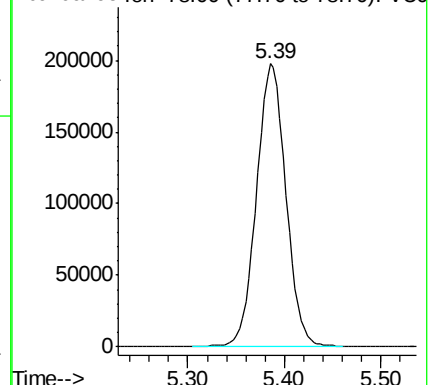
Lab File: VU028954.D

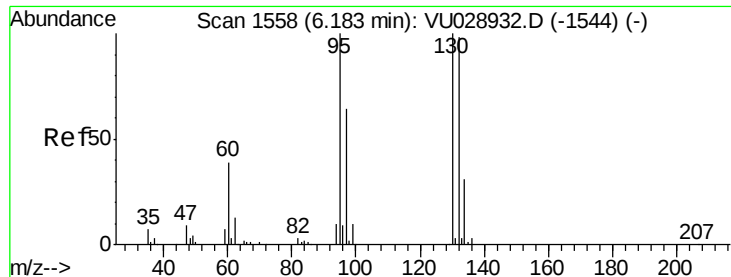
Acq: 27 Dec 2018 09:00

Tgt Ion: 78 Resp: 416857



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 55.049 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

Tgt Ion: 95 Resp: 106544

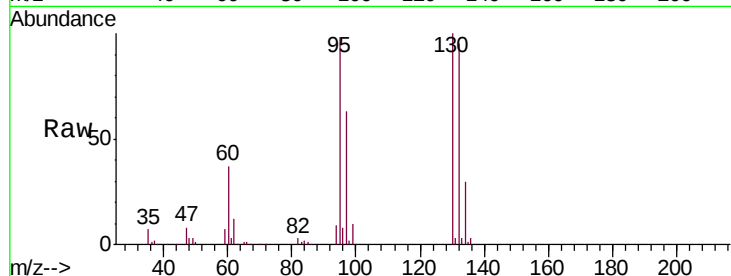
Ion Ratio Lower Upper

95 100

97 64.0 43.3 80.3

132 97.0 64.2 119.2

130 102.2 67.1 124.7

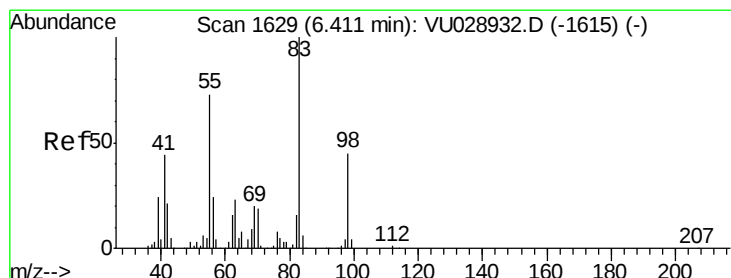
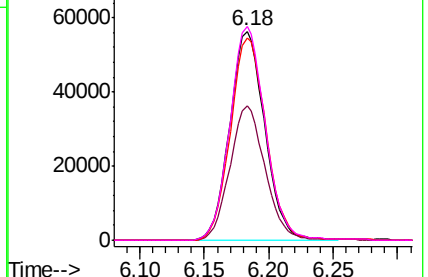
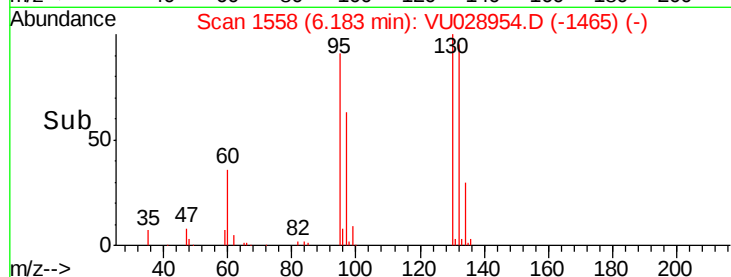


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 54.614 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

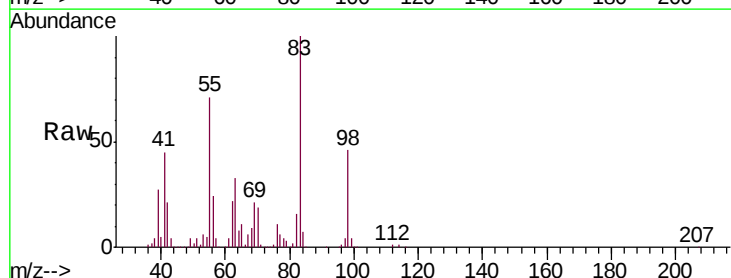
Tgt Ion: 83 Resp: 176050

Ion Ratio Lower Upper

83 100

55 72.4 63.7 95.5

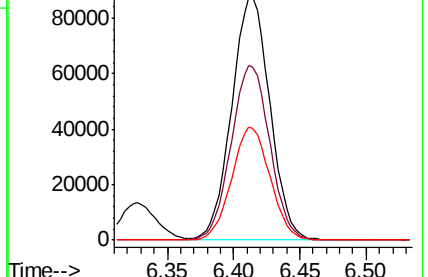
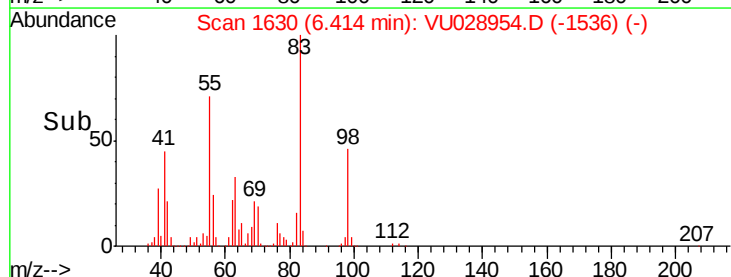
98 46.6 35.6 53.4

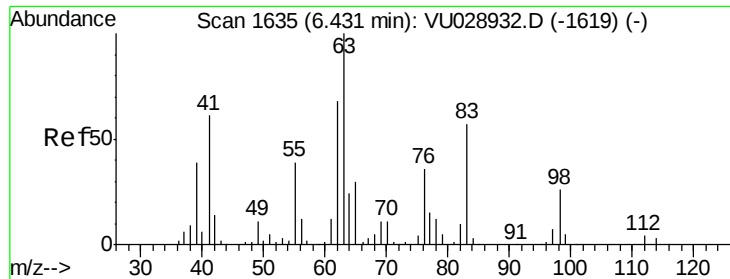


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

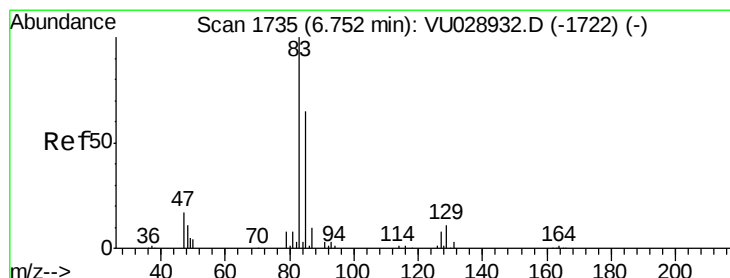
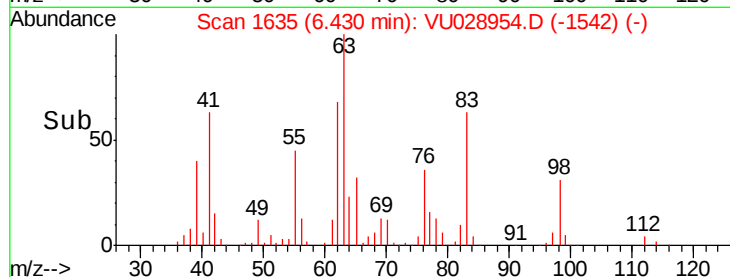
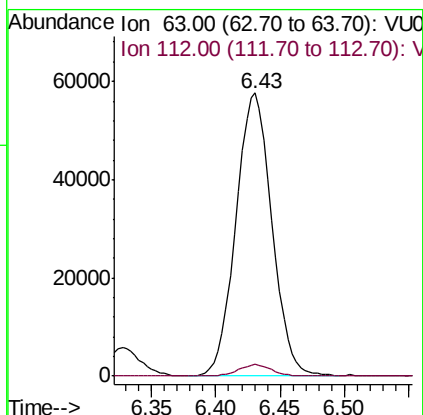
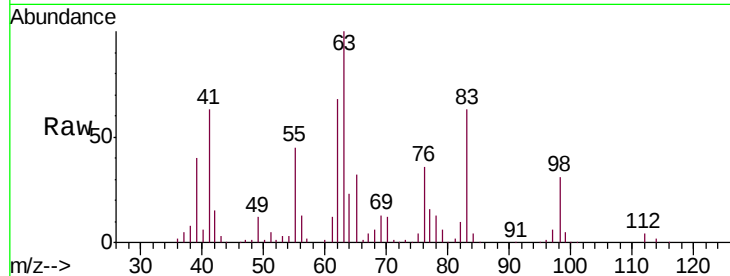




#37
 1,2-Dichloropropane
 Concen: 50.009 ug/L
 RT: 6.43 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VU028954.D
 Acq: 27 Dec 2018 09:00

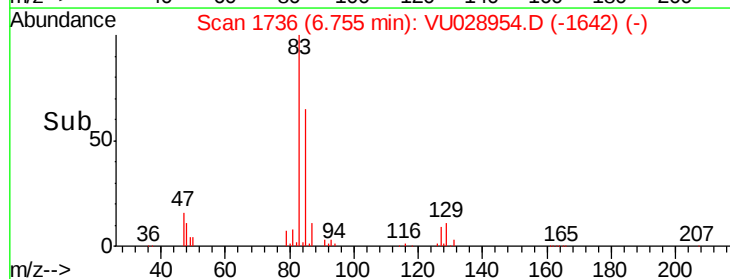
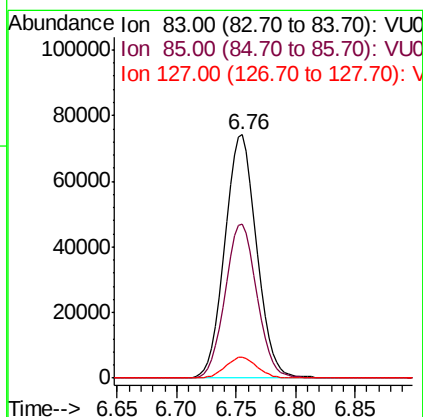
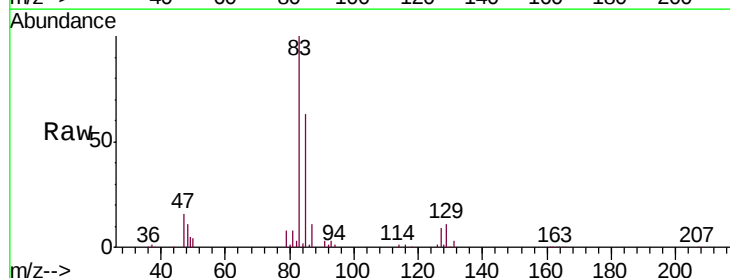
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

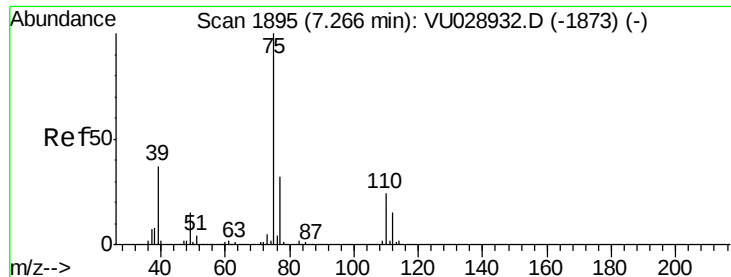
Tgt Ion: 63 Resp: 112069
 Ion Ratio Lower Upper
 63 100
 112 3.8 2.7 4.1



#38
 Bromodichloromethane
 Concen: 55.478 ug/L
 RT: 6.76 min Scan# 1736
 Delta R.T. 0.00 min
 Lab File: VU028954.D
 Acq: 27 Dec 2018 09:00

Tgt Ion: 83 Resp: 137676
 Ion Ratio Lower Upper
 83 100
 85 63.3 45.4 84.2
 127 8.6 6.2 9.2

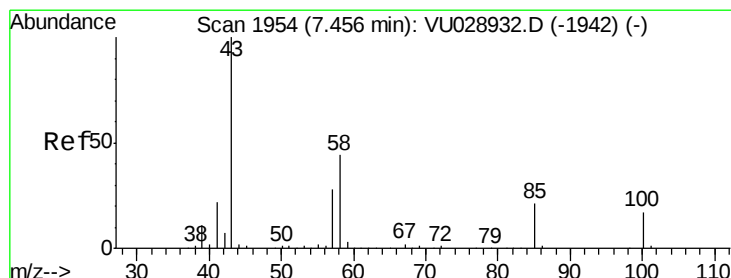
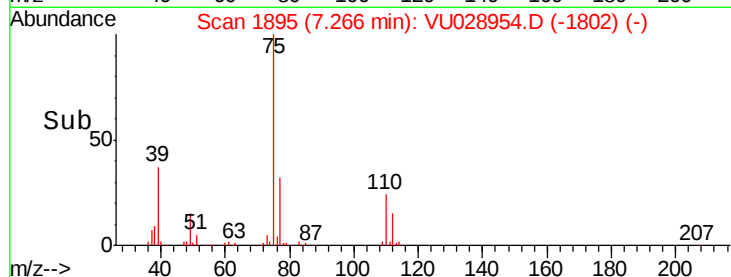
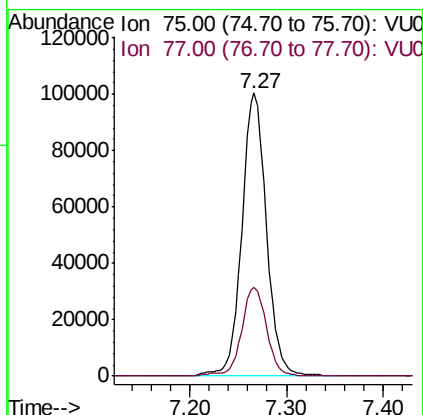
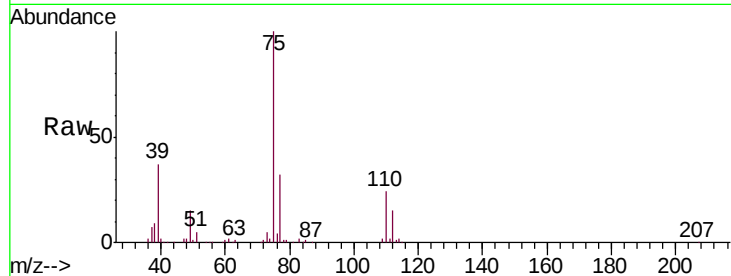




#39
 cis-1,3-Dichloropropene
 Concen: 55.543 ug/L
 RT: 7.27 min Scan# 1895
 Delta R.T. -0.00 min
 Lab File: VU028954.D
 Acq: 27 Dec 2018 09:00

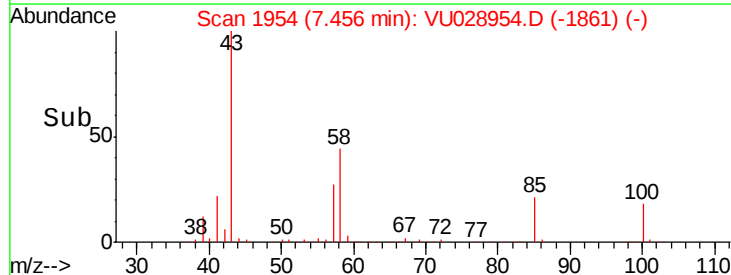
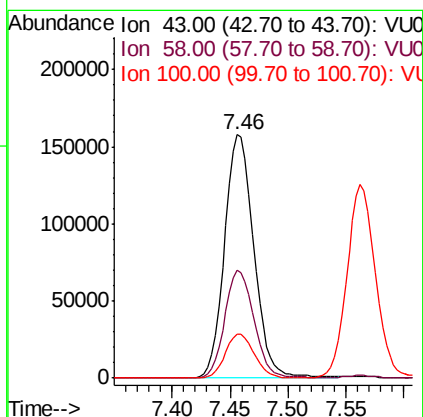
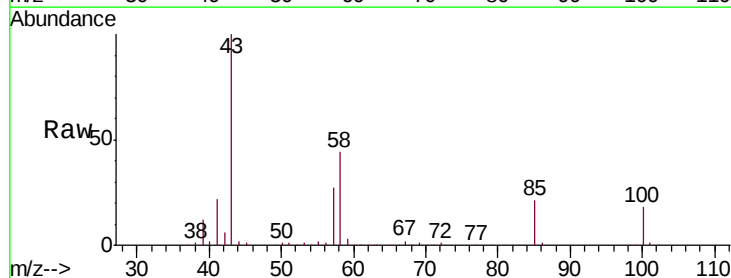
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

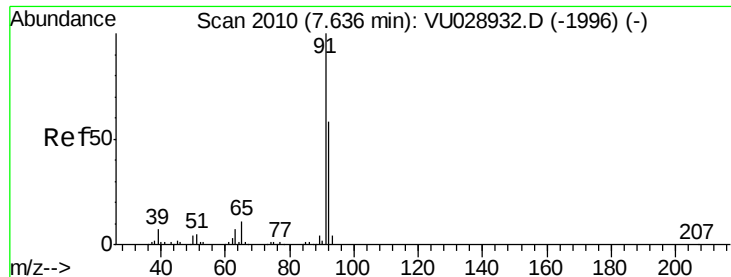
Tgt Ion: 75 Resp: 177452
 Ion Ratio Lower Upper
 75 100
 77 31.6 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 92.220 ug/L
 RT: 7.46 min Scan# 1954
 Delta R.T. -0.00 min
 Lab File: VU028954.D
 Acq: 27 Dec 2018 09:00

Tgt Ion: 43 Resp: 277774
 Ion Ratio Lower Upper
 43 100
 58 44.4 33.1 49.7
 100 17.9 11.5 17.3#





#42

Toluene

Concen: 55.398 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

Instrument :

MSVOA_U

ClientSampleId :

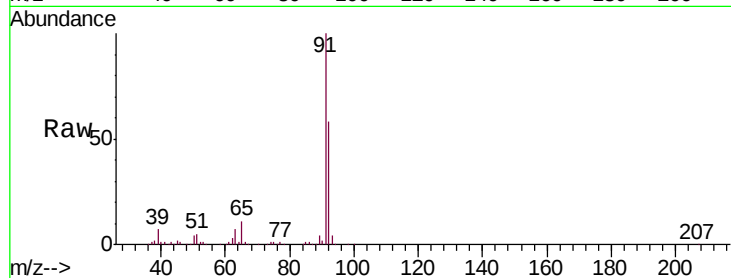
VSTD05048

Tgt Ion: 91 Resp: 450188

Ion Ratio Lower Upper

91 100

92 57.9 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU028932.D (-1996) (-)

Ion 92.00 (91.70 to 92.70): VU028932.D (-1996) (-)

7.64

250000

200000

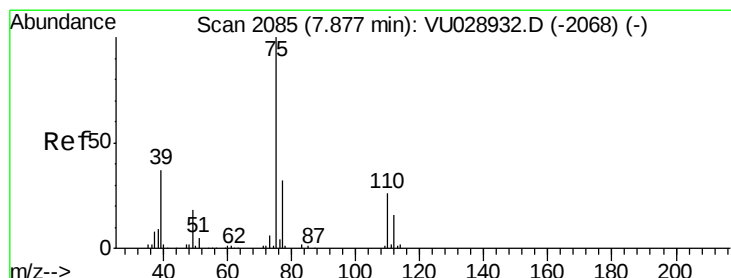
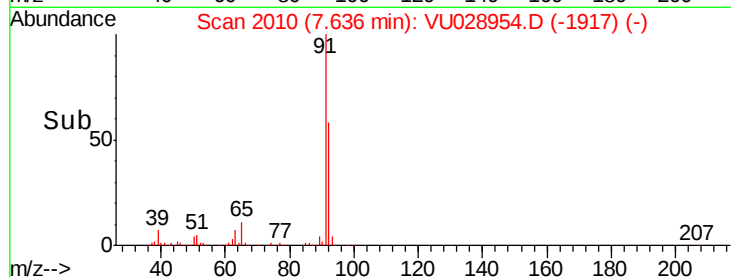
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 55.935 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. -0.00 min

Lab File: VU028954.D

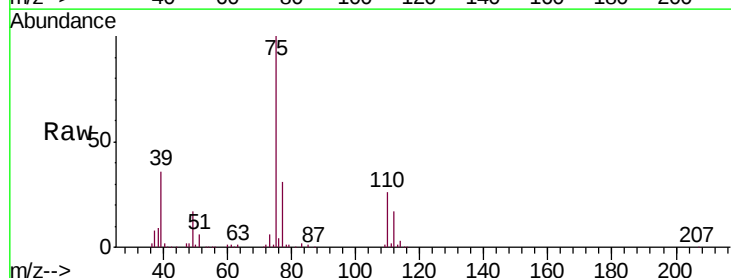
Acq: 27 Dec 2018 09:00

Tgt Ion: 75 Resp: 159298

Ion Ratio Lower Upper

75 100

77 31.2 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VU028932.D (-2068) (-)

Ion 77.00 (76.70 to 77.70): VU028932.D (-2068) (-)

7.88

100000

80000

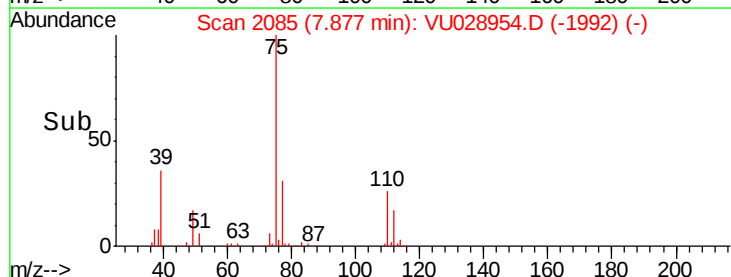
60000

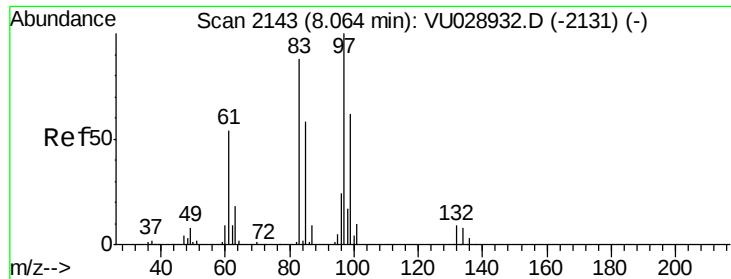
40000

20000

0

Time-->

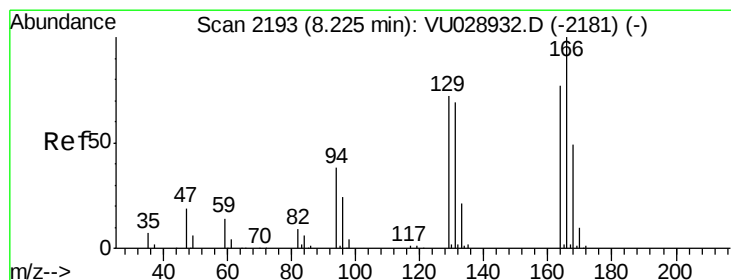
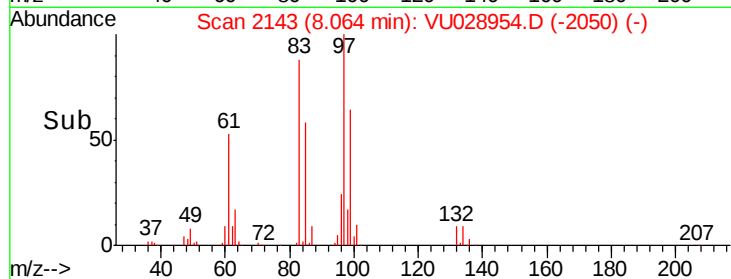
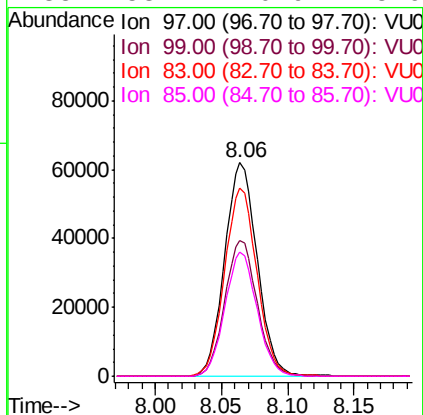
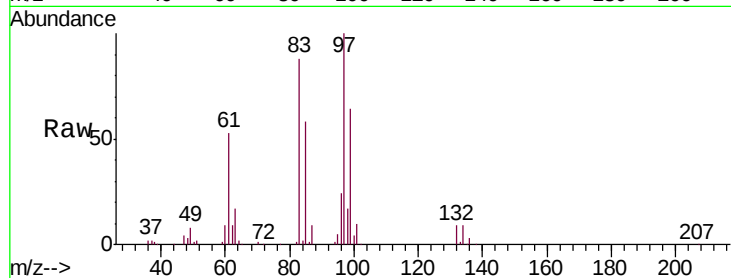




#45
 1,1,2-Trichloroethane
 Concen: 55.345 ug/L
 RT: 8.06 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: VU028954.D
 Acq: 27 Dec 2018 09:00

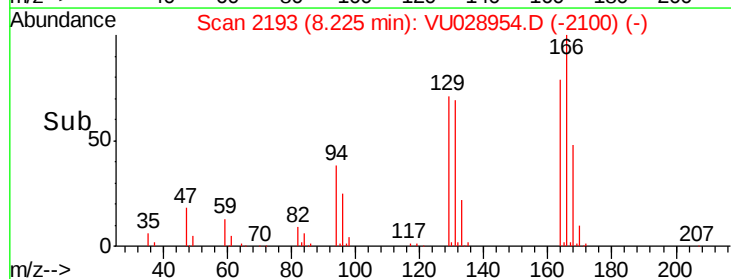
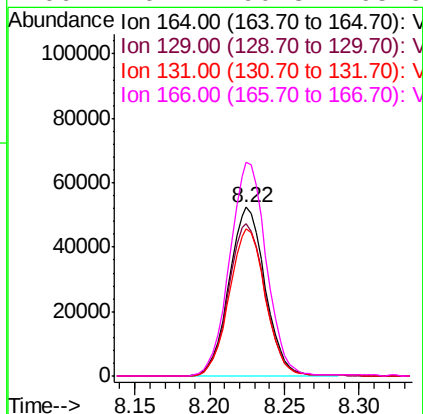
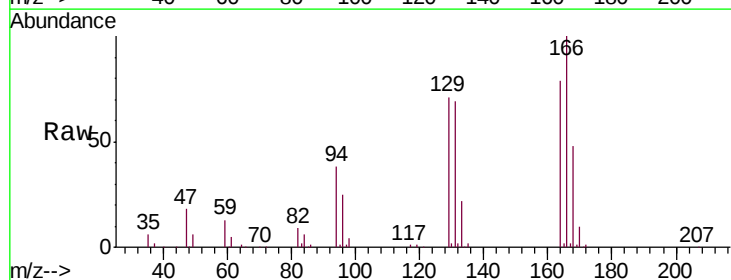
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

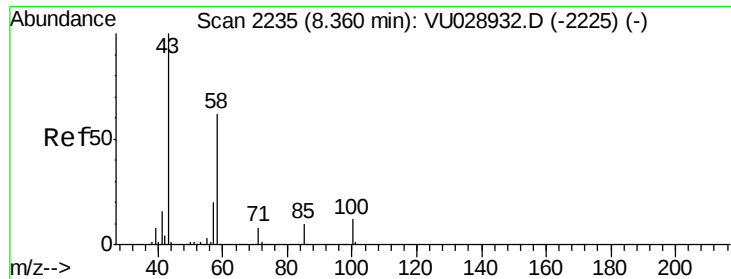
Tgt Ion:	97	Resp:	106044
Ion	Ratio	Lower	Upper
97	100		
99	63.7	44.2	82.2
83	88.0	64.5	119.9
85	58.4	40.9	75.9



#46
 Tetrachloroethene
 Concen: 59.099 ug/L
 RT: 8.22 min Scan# 2193
 Delta R.T. -0.00 min
 Lab File: VU028954.D
 Acq: 27 Dec 2018 09:00

Tgt Ion:	164	Resp:	88094
Ion	Ratio	Lower	Upper
164	100		
129	90.5	66.8	124.0
131	87.3	64.2	119.2
166	126.7	90.8	168.6

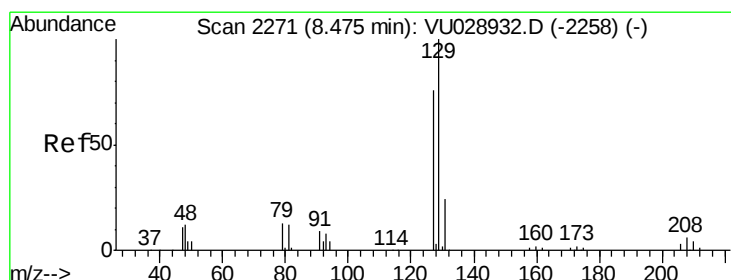
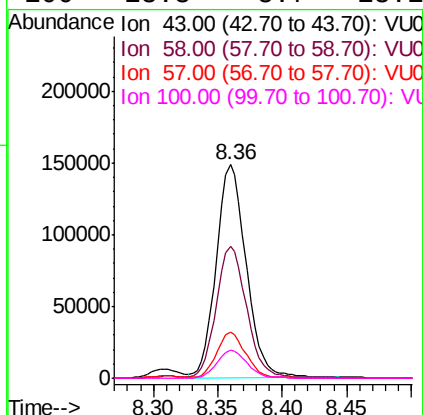
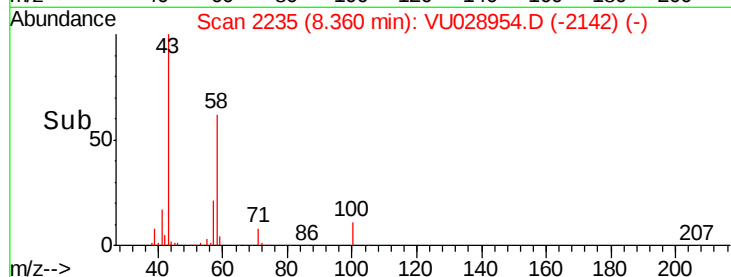
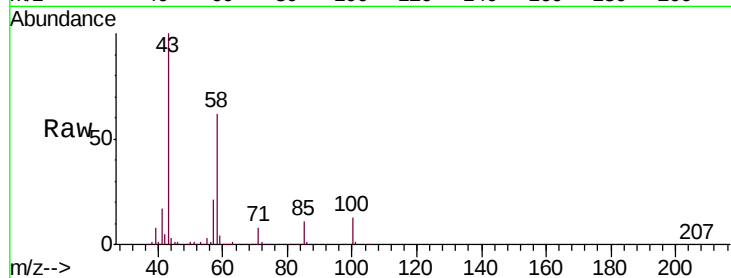




#48
2-Hexanone
Concen: 97.465 ug/L
RT: 8.36 min Scan# 2235
Delta R.T. -0.00 min
Lab File: VU028954.D
Acq: 27 Dec 2018 09:00

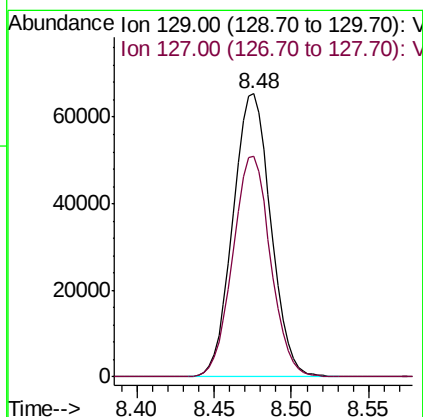
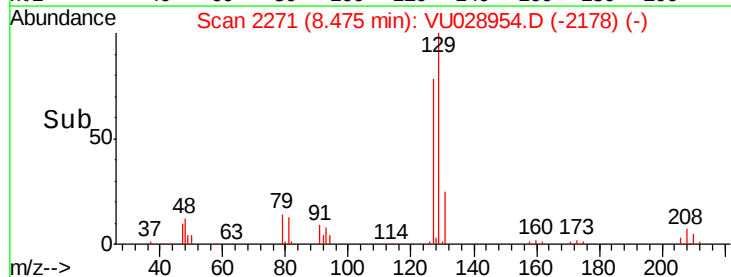
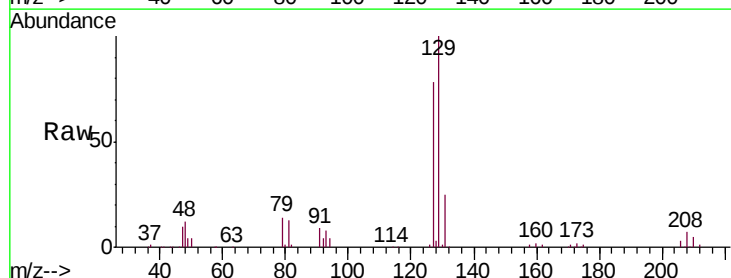
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

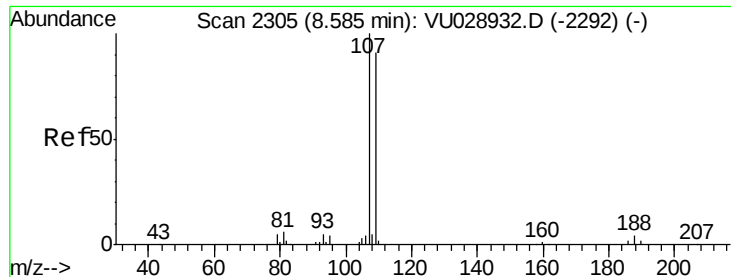
Tgt Ion: 43 Resp: 240953
Ion Ratio Lower Upper
43 100
58 62.2 45.9 68.9
57 21.0 15.0 22.4
100 13.3 8.7 13.1#



#49
Dibromochloromethane
Concen: 58.431 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028954.D
Acq: 27 Dec 2018 09:00

Tgt Ion: 129 Resp: 111516
Ion Ratio Lower Upper
129 100
127 78.0 54.1 100.5





#50

1,2-Dibromoethane

Concen: 57.870 ug/L

RT: 8.58 min Scan# 2305

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

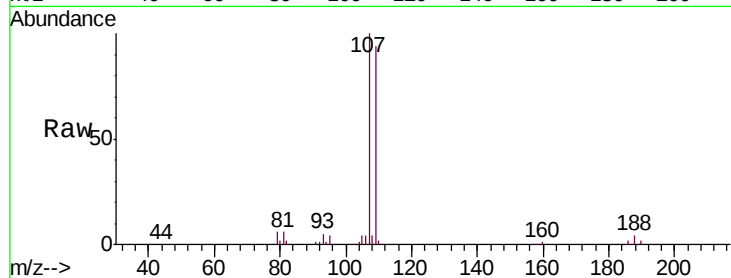
Tgt Ion:107 Resp: 115366

Ion Ratio Lower Upper

107 100

109 94.0 66.0 122.6

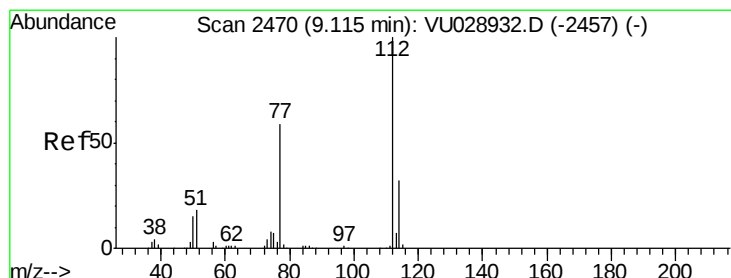
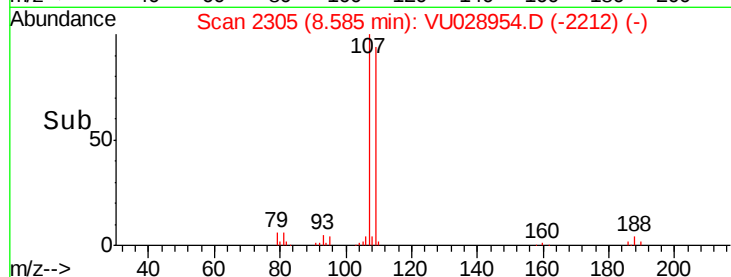
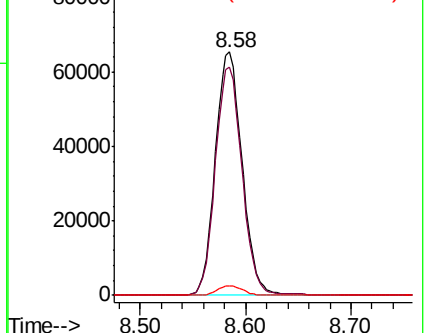
188 3.8 3.1 4.7



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



#51

Chlorobenzene

Concen: 56.717 ug/L

RT: 9.12 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

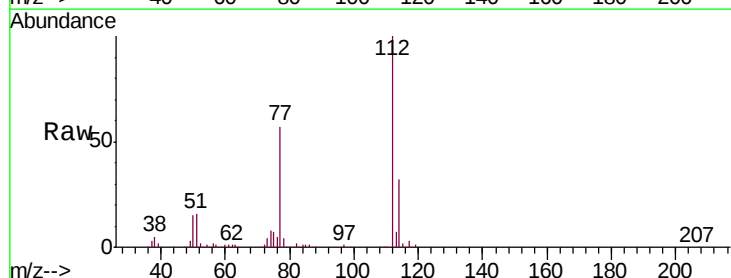
Tgt Ion:112 Resp: 290483

Ion Ratio Lower Upper

112 100

114 32.0 22.2 41.2

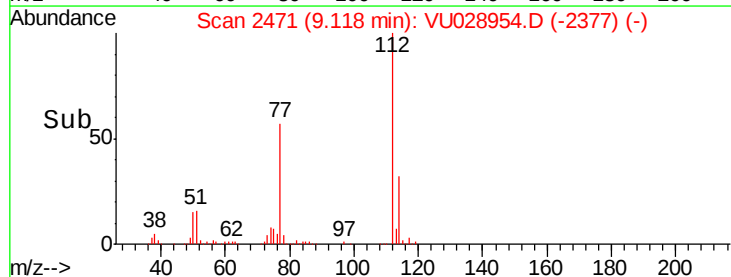
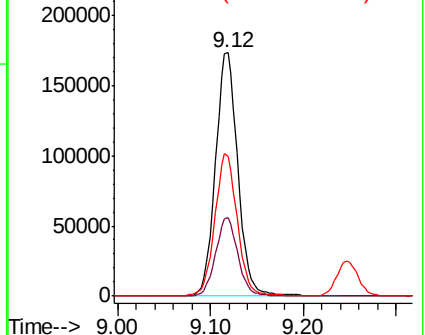
77 57.5 47.8 71.8

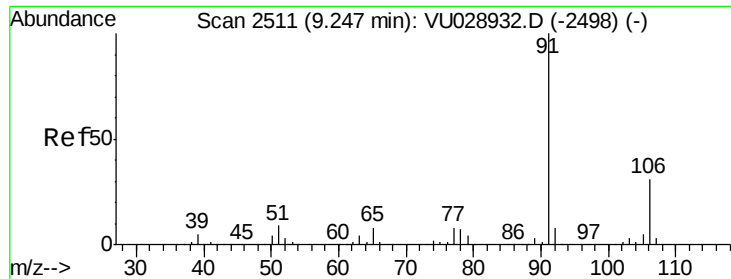


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0

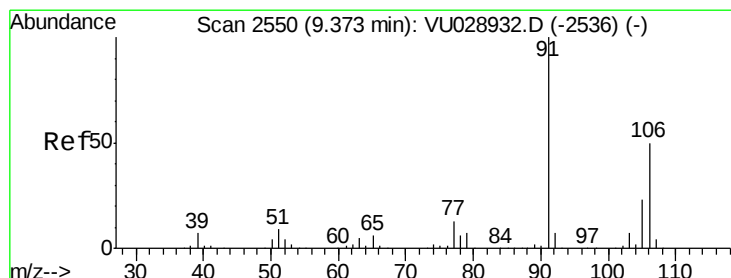
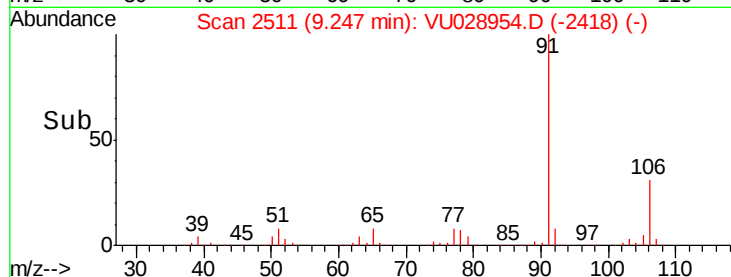
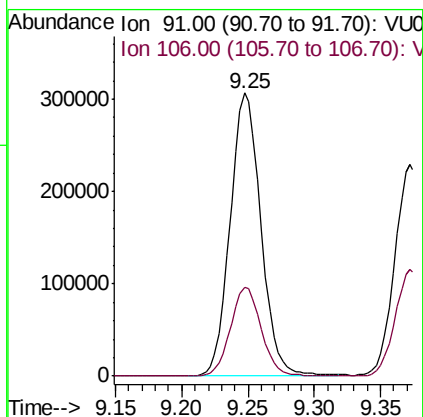
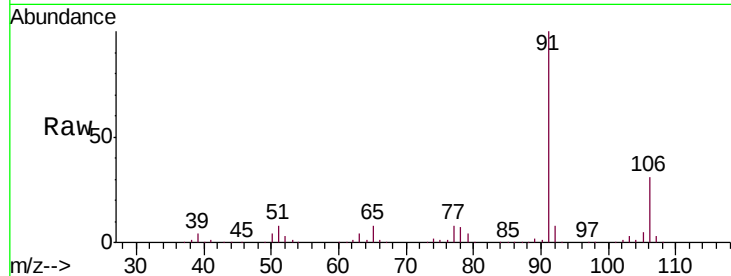




#52
Ethylbenzene
Concen: 56.581 ug/L
RT: 9.25 min Scan# 2511
Delta R.T. -0.00 min
Lab File: VU028954.D
Acq: 27 Dec 2018 09:00

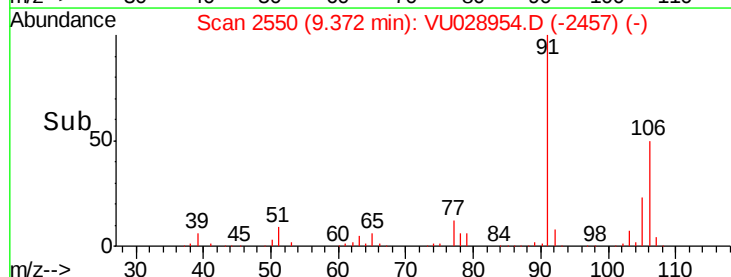
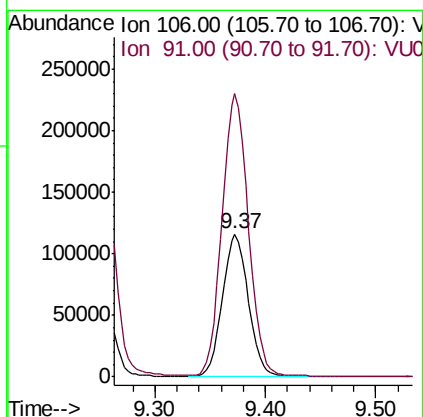
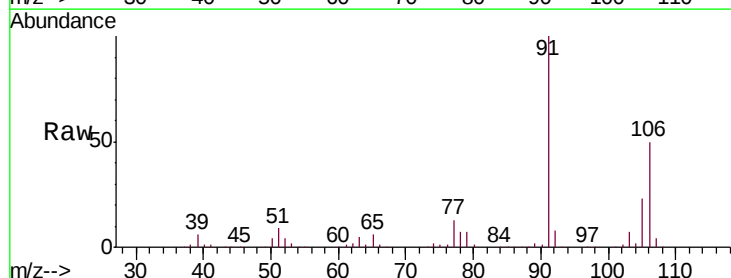
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

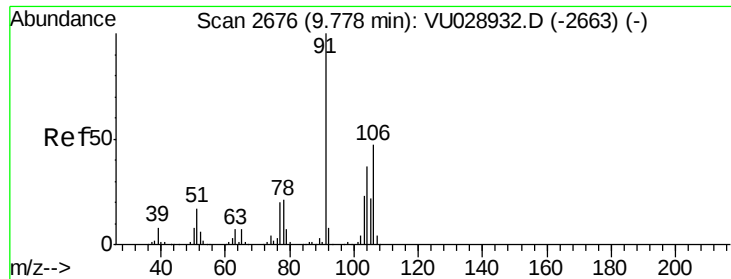
Tgt Ion: 91 Resp: 494061
Ion Ratio Lower Upper
91 100
106 31.5 20.9 38.9



#53
m,p-Xylene
Concen: 58.943 ug/L
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU028954.D
Acq: 27 Dec 2018 09:00

Tgt Ion: 106 Resp: 190326
Ion Ratio Lower Upper
106 100
91 198.6 144.1 267.5

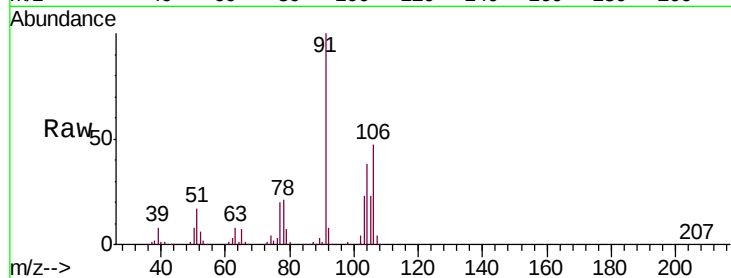




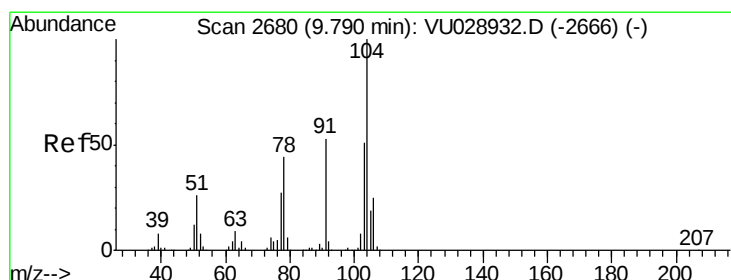
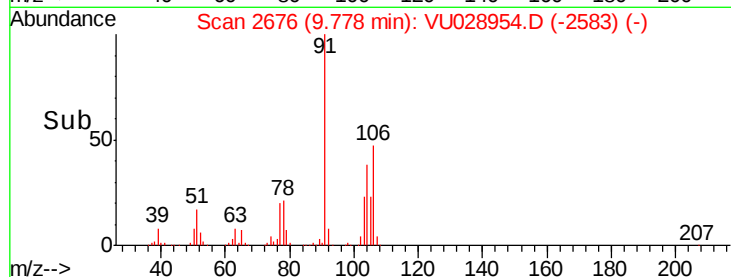
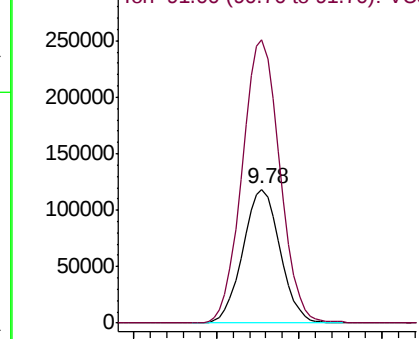
#54
o-xylene
Concen: 57.311 ug/L
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU028954.D
Acq: 27 Dec 2018 09:00

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tgt Ion:106 Resp: 185473
Ion Ratio Lower Upper
106 100
91 211.6 150.4 279.4

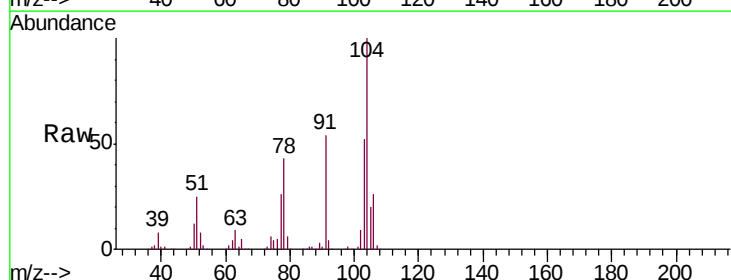


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

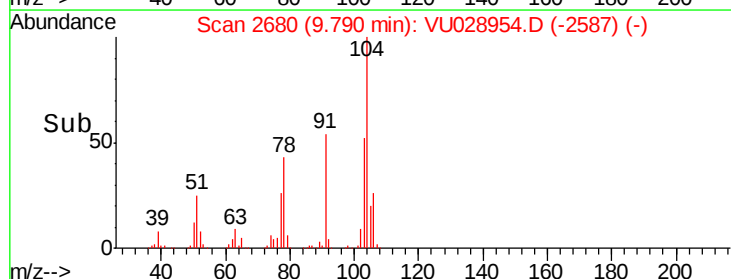
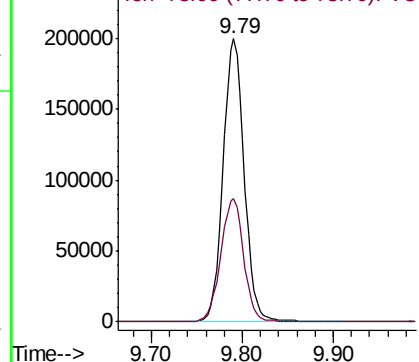


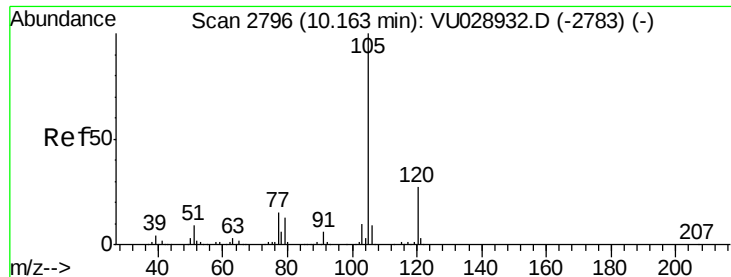
#55
Styrene
Concen: 58.693 ug/L
RT: 9.79 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VU028954.D
Acq: 27 Dec 2018 09:00

Tgt Ion:104 Resp: 321699
Ion Ratio Lower Upper
104 100
78 43.4 31.3 58.1



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 59.117 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

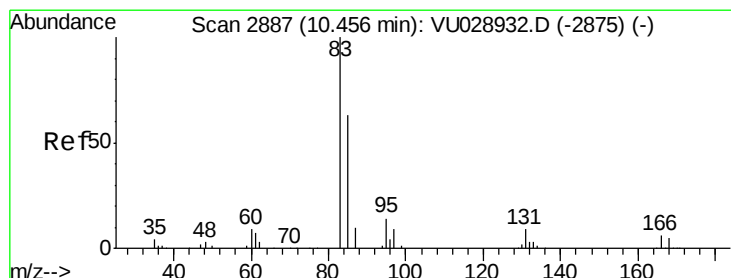
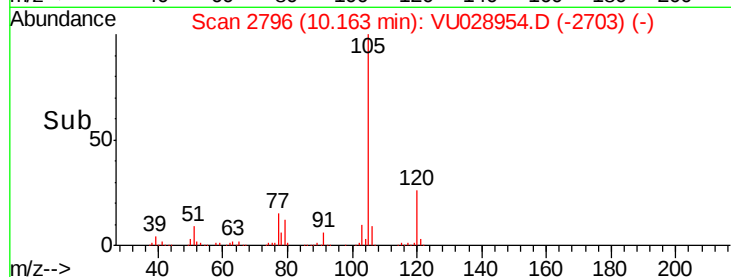
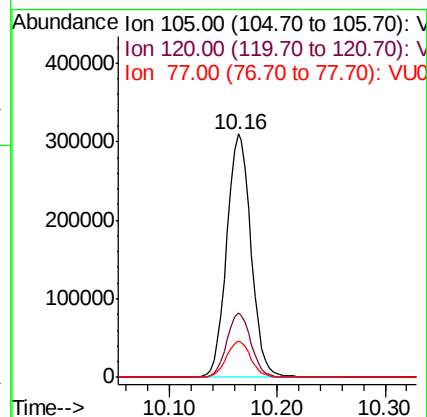
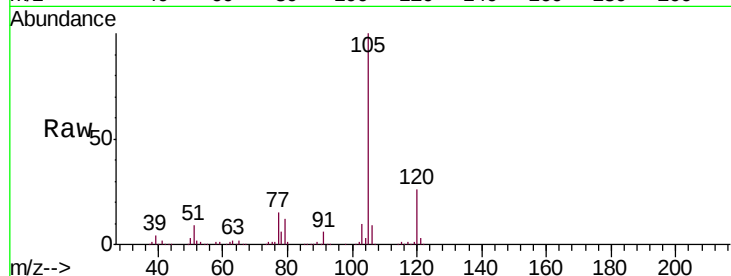
Tgt Ion:105 Resp: 485339

Ion Ratio Lower Upper

105 100

120 26.4 21.4 32.2

77 14.8 12.3 18.5



#58

1,1,2,2-Tetrachloroethane

Concen: 52.212 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

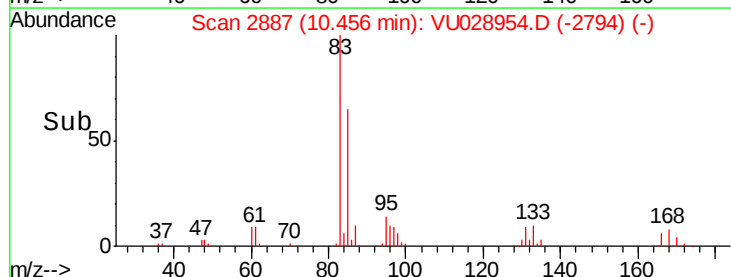
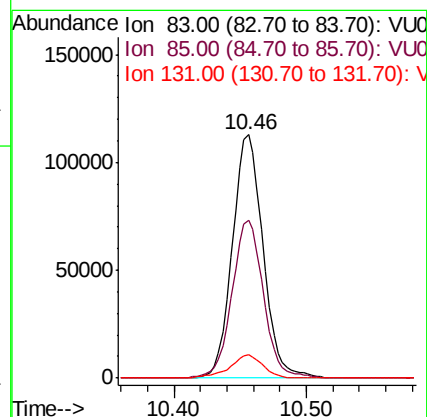
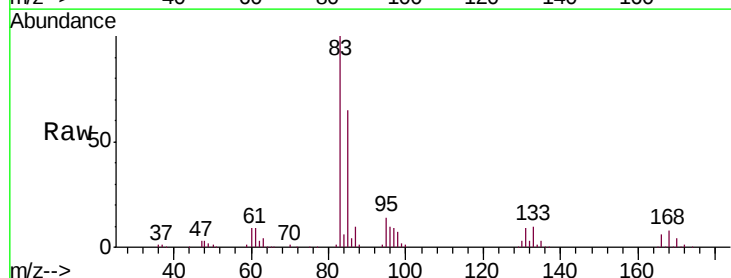
Tgt Ion: 83 Resp: 181741

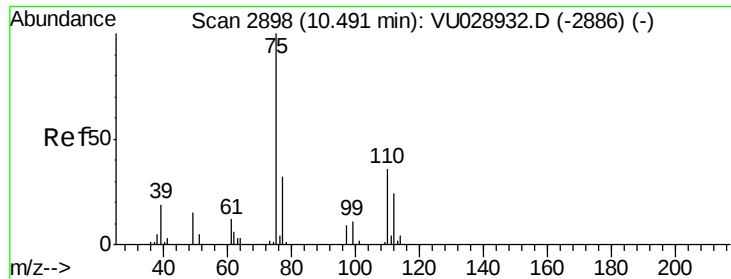
Ion Ratio Lower Upper

83 100

85 65.0 45.3 84.1

131 9.5 6.7 10.1

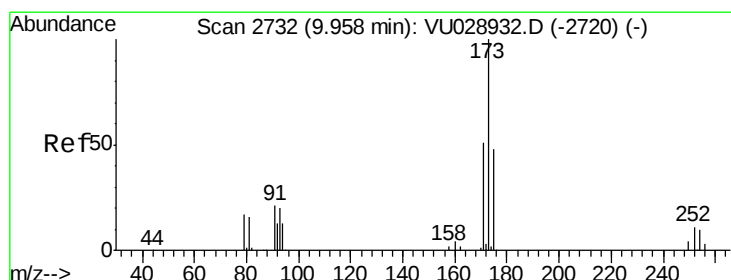
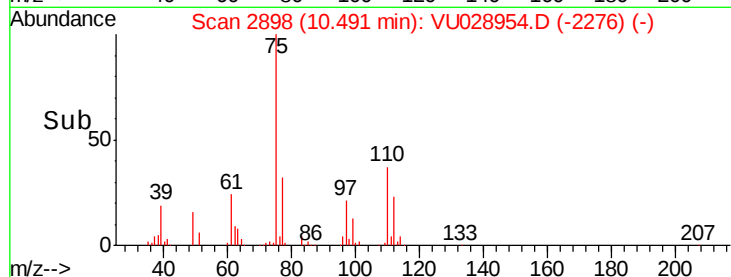
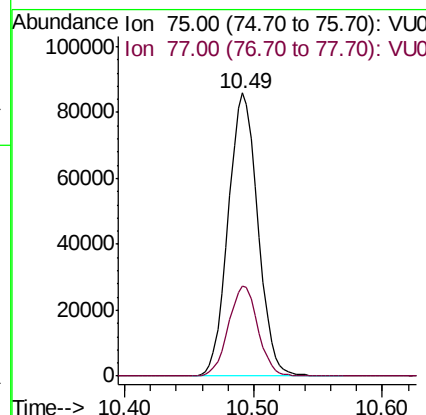
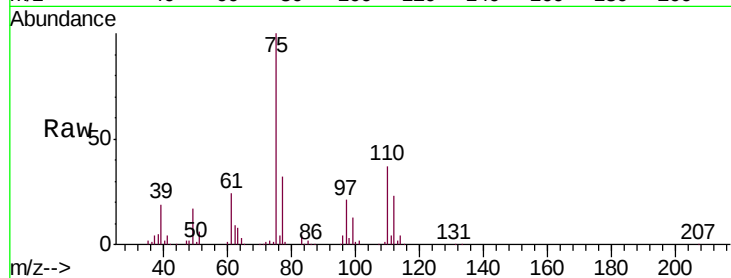




#59
1,2,3-Trichloropropane
Concen: 51.234 ug/L
RT: 10.49 min Scan# 2898
Delta R.T. -0.00 min
Lab File: VU028954.D
Acq: 27 Dec 2018 09:00

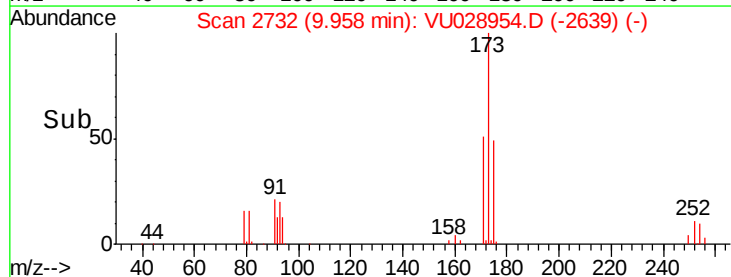
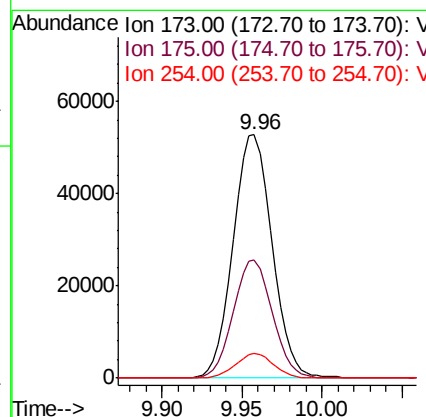
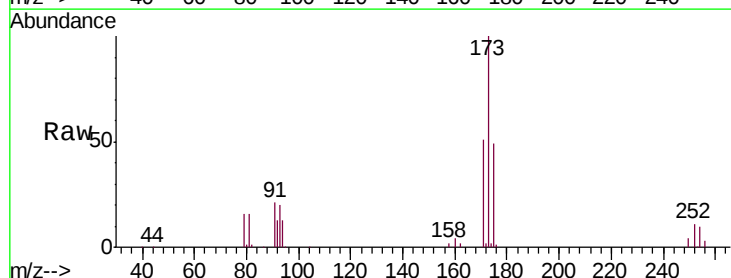
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

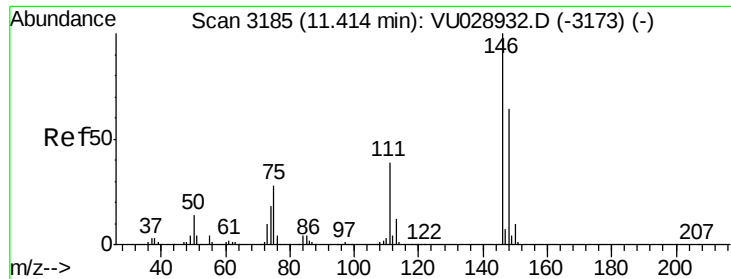
Tgt Ion: 75 Resp: 137014
Ion Ratio Lower Upper
75 100
77 31.7 25.5 38.3



#61
Bromoform
Concen: 56.554 ug/L
RT: 9.96 min Scan# 2732
Delta R.T. -0.00 min
Lab File: VU028954.D
Acq: 27 Dec 2018 09:00

Tgt Ion: 173 Resp: 87849
Ion Ratio Lower Upper
173 100
175 48.5 38.9 58.3
254 10.0 7.8 11.8

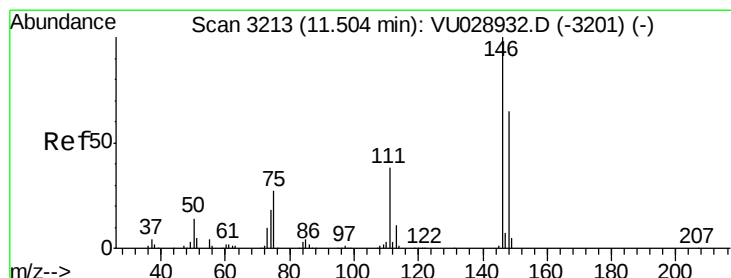
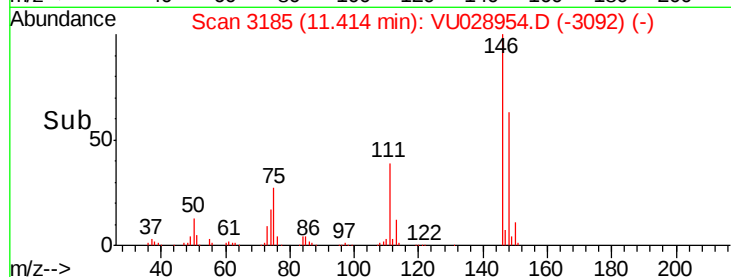
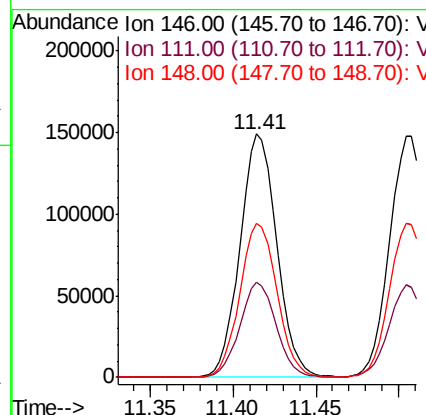
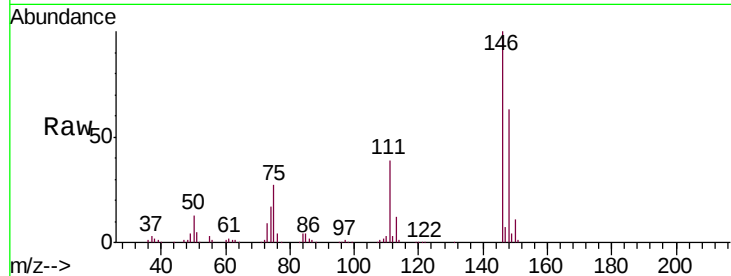




#62
 1,3-Dichlorobenzene
 Concen: 57.879 ug/L
 RT: 11.41 min Scan# 3185
 Delta R.T. -0.00 min
 Lab File: VU028954.D
 Acq: 27 Dec 2018 09:00

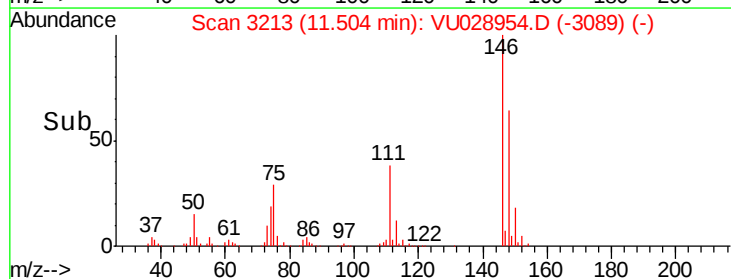
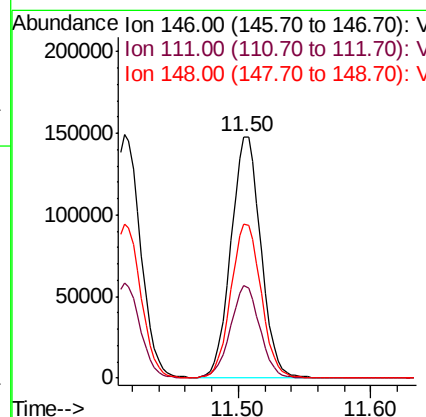
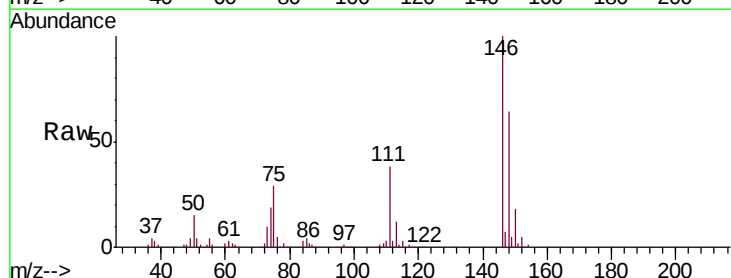
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

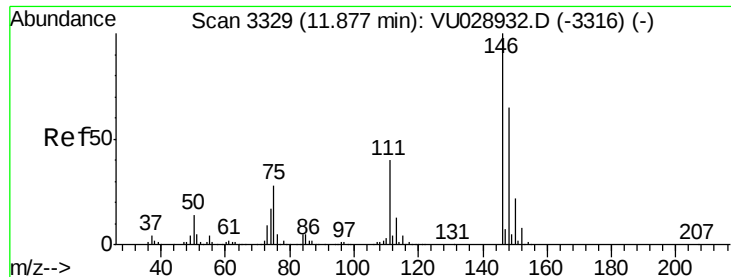
Tgt Ion:146 Resp: 230394
 Ion Ratio Lower Upper
 146 100
 111 39.0 27.4 50.8
 148 63.2 44.2 82.2



#63
 1,4-Dichlorobenzene
 Concen: 56.417 ug/L
 RT: 11.50 min Scan# 3213
 Delta R.T. -0.00 min
 Lab File: VU028954.D
 Acq: 27 Dec 2018 09:00

Tgt Ion:146 Resp: 231373
 Ion Ratio Lower Upper
 146 100
 111 38.3 26.5 49.1
 148 63.9 45.1 83.9

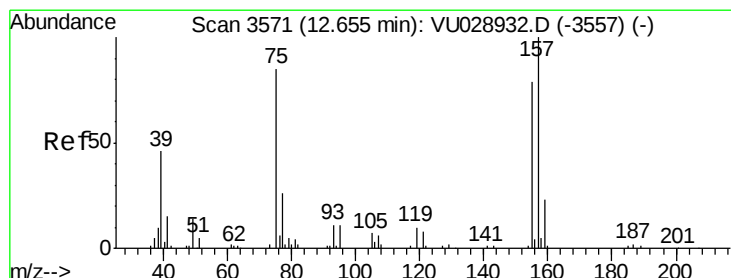
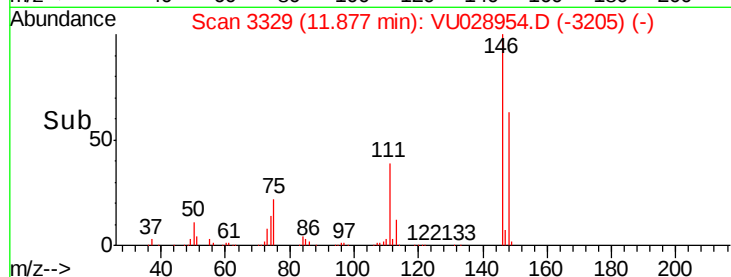
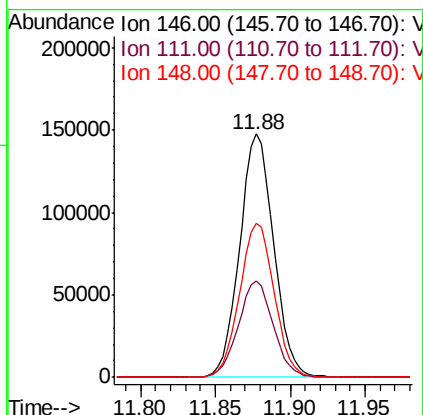
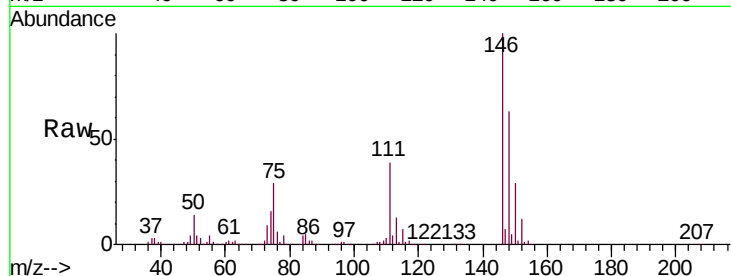




#65
 1,2-Dichlorobenzene
 Concen: 56.342 ug/L
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU028954.D
 Acq: 27 Dec 2018 09:00

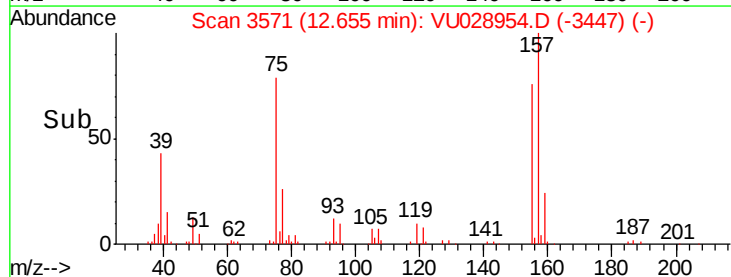
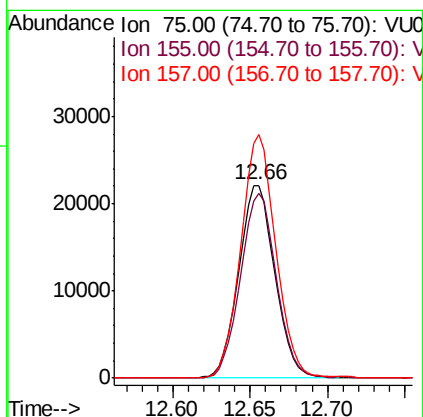
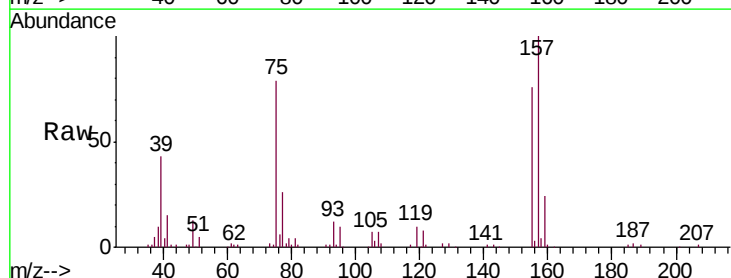
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

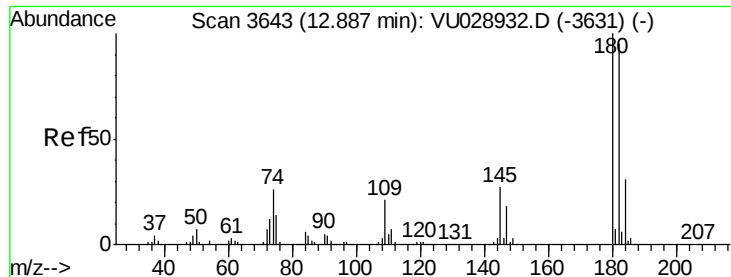
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	32.1	48.1
148	63.5	49.7	74.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.180 ug/L
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU028954.D
 Acq: 27 Dec 2018 09:00

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.9	71.4	107.2
157	126.2	89.6	134.4

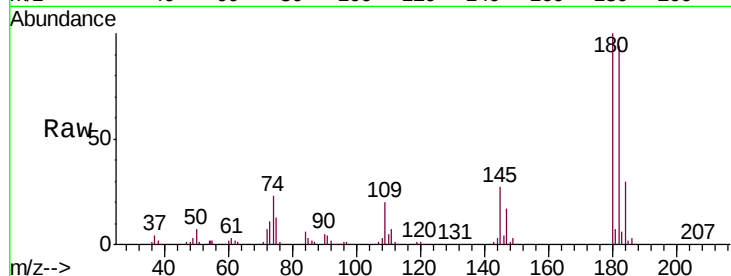




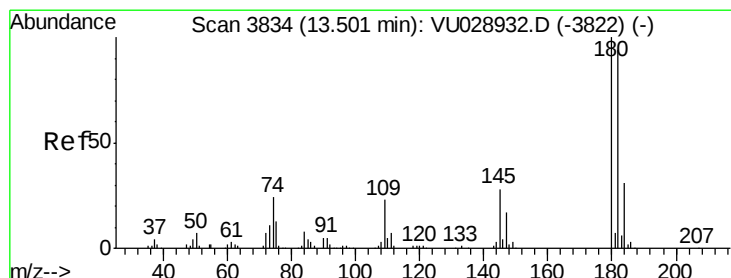
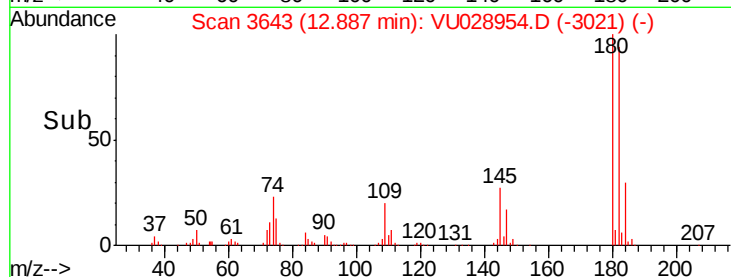
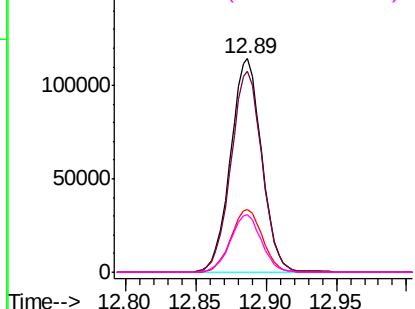
#67
 1,3,5-Trichlorobenzene
 Concen: 60.203 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU028954.D
 Acq: 27 Dec 2018 09:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tgt Ion:180 Resp: 176689
 Ion Ratio Lower Upper
 180 100
 182 94.3 76.4 114.6
 184 29.8 24.6 36.8
 145 26.9 22.1 33.1

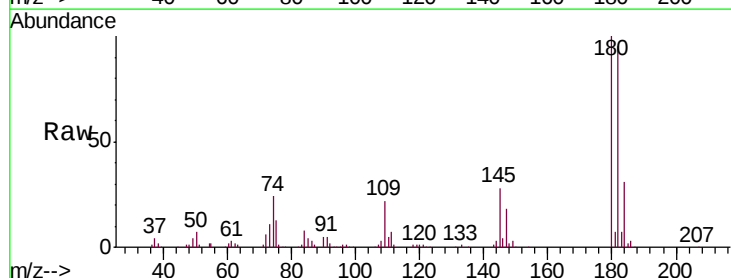


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

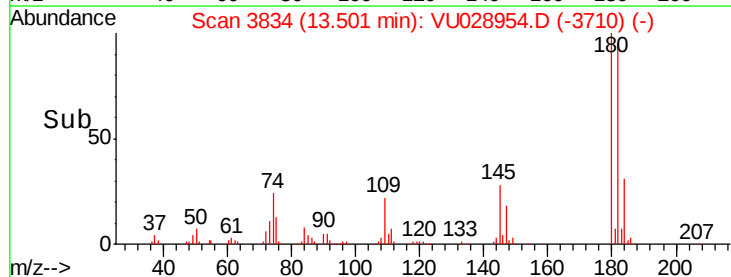
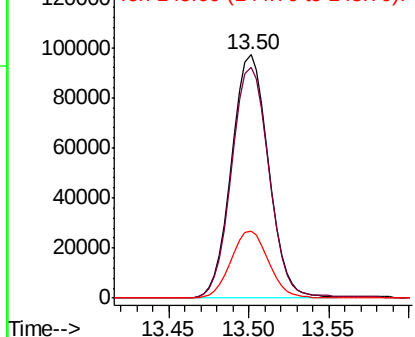


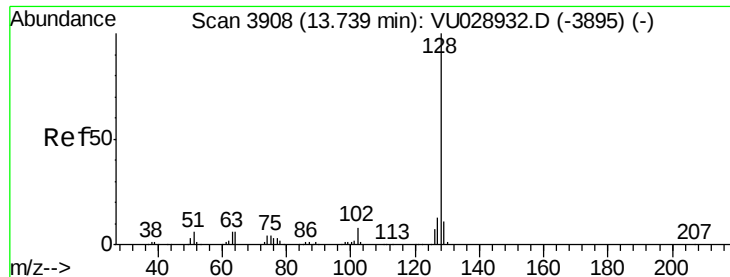
#68
 1,2,4-trichlorobenzene
 Concen: 62.365 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU028954.D
 Acq: 27 Dec 2018 09:00

Tgt Ion:180 Resp: 153274
 Ion Ratio Lower Upper
 180 100
 182 96.7 77.4 116.0
 145 27.9 23.5 35.3



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: 58.953 ug/L

RT: 13.74 min Scan# 3908

Delta R.T. -0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

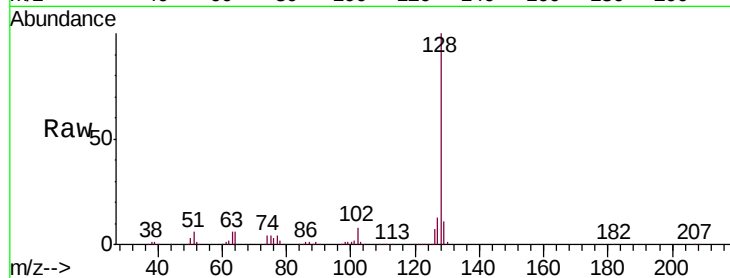
Tgt Ion:128 Resp: 503034

Ion Ratio Lower Upper

128 100

127 12.7 10.5 15.7

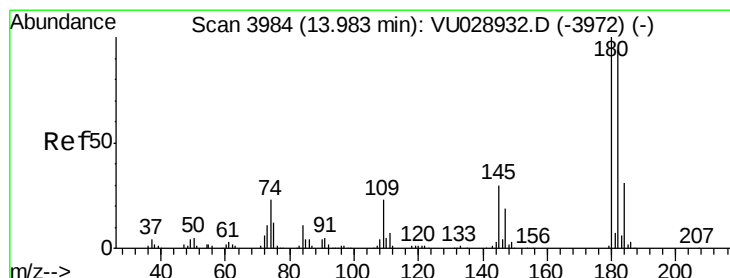
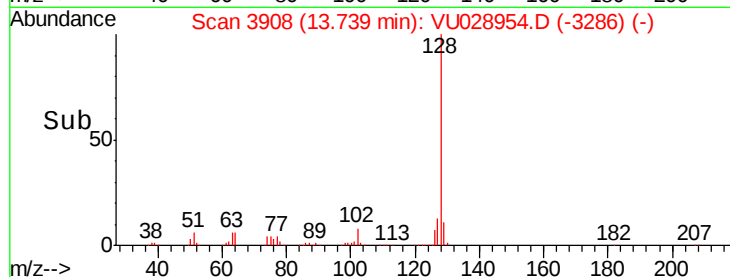
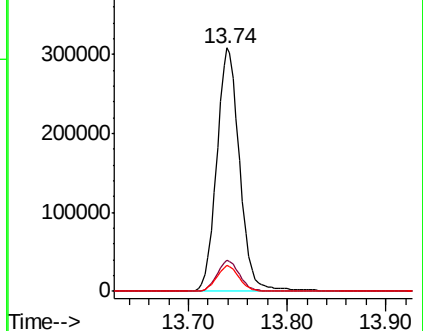
129 10.6 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 58.484 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028954.D

Acq: 27 Dec 2018 09:00

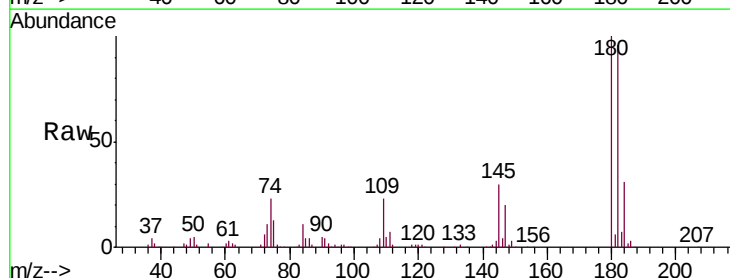
Tgt Ion:180 Resp: 154991

Ion Ratio Lower Upper

180 100

182 95.4 75.8 113.8

145 29.7 24.5 36.7



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

