

Data File : VU033303.D
Acq On : 18 Jul 2019 08:52
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

Quant Time: Jul 19 01:42:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jul 16 01:46:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	280537	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	289241	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	145499	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	96113	45.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.52%
7) Chloroethane-d5	1.67	69	88265	48.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.30%
11) 1,1-Dichloroethene-d2	2.26	63	205316	53.30	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	106.60%
21) 2-Butanone-d5	4.15	46	141214	104.95	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.95%
24) Chloroform-d	4.62	84	179952	50.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.12%
26) 1,2-Dichloroethane-d4	5.28	65	114752	50.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.54%
32) Benzene-d6	5.32	84	346442	48.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.64%
36) 1,2-Dichloropropane-d6	6.31	67	113059	49.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.48%
41) Toluene-d8	7.55	98	330993	49.47	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.94%
43) trans-1,3-Dichloropropene-	7.83	79	54179	48.61	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.22%
47) 2-Hexanone-d5	8.29	63	104455	101.94	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.94%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	180494	52.47	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.94%
64) 1,2-Dichlorobenzene-d4	11.85	152	128717	49.61	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.22%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	147748	53.145 ug/L	100
3) Chloromethane	1.32	50	145694	53.195 ug/L	99
5) Vinyl chloride	1.40	62	160953	50.843 ug/L	98
6) Bromomethane	1.61	94	105830	53.624 ug/L	99
8) Chloroethane	1.69	64	100777	52.631 ug/L	96
9) Trichlorofluoromethane	1.87	101	219038	52.618 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	113762	59.441 ug/L	99
12) 1,1-Dichloroethene	2.27	96	104081	55.584 ug/L	99
13) Acetone	2.31	43	212306	126.281 ug/L	100
14) Carbon disulfide	2.46	76	294684	51.457 ug/L	99
15) Methyl Acetate	2.60	43	118557	54.001 ug/L	99
16) Methylene chloride	2.68	84	113654	53.161 ug/L	96
17) trans-1,2-Dichloroethene	2.96	96	99942	51.642 ug/L	99
18) Methyl tert-butyl Ether	2.98	73	301673	50.502 ug/L	99
19) 1,1-Dichloroethane	3.42	63	197349	53.051 ug/L	100
20) cis-1,2-Dichloroethene	4.20	96	112963	51.749 ug/L	98
22) 2-Butanone	4.23	43	216283	115.804 ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	61055	54.622	ug/L	97
25) Chloroform	4.65	83	213327	53.919	ug/L	100
27) 1,2-Dichloroethane	5.38	62	164583	53.721	ug/L	100
29) Cyclohexane	4.97	56	161723	51.312	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	178368	52.858	ug/L	99
31) Carbon tetrachloride	5.11	117	159293	53.942	ug/L	99
33) Benzene	5.37	78	443919	52.628	ug/L	100
34) Trichloroethene	6.17	95	111871	50.712	ug/L	97
35) Methylcyclohexane	6.40	83	176402	52.201	ug/L	98
37) 1,2-Dichloropropane	6.41	63	120303	52.590	ug/L	100
38) Bromodichloromethane	6.74	83	156320	52.976	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	181609	51.779	ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	327822	106.827	ug/L	99
42) Toluene	7.62	91	496603	54.608	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	168264	53.196	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	114554	52.949	ug/L	98
46) Tetrachloroethene	8.21	164	91715	53.706	ug/L	99
48) 2-Hexanone	8.35	43	292808	117.122	ug/L	99
49) Dibromochloromethane	8.46	129	130135	53.922	ug/L	100
50) 1,2-Dibromoethane	8.57	107	124886	52.942	ug/L	94
51) Chlorobenzene	9.10	112	307824	51.860	ug/L	99
52) Ethylbenzene	9.23	91	518702	53.304	ug/L	99
53) m,p-Xylene	9.36	106	199880	54.229	ug/L	99
54) o-xylene	9.76	106	197120	53.860	ug/L	99
55) Styrene	9.77	104	345416	55.668	ug/L	96
56) Isopropylbenzene	10.15	105	506761	53.809	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	203060	53.433	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	159717	53.632	ug/L	99
61) Bromoform	9.94	173	95357	53.663	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	225158	50.272	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	239484	51.140	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	241392	52.552	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	44417	50.664	ug/L	97
67) 1,3,5-Trichlorobenzene	12.87	180	174616	53.947	ug/L	100
68) 1,2,4-trichlorobenzene	13.49	180	142788	50.504	ug/L	99
69) Naphthalene	13.73	128	470299	51.880	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	156412	50.958	ug/L	99

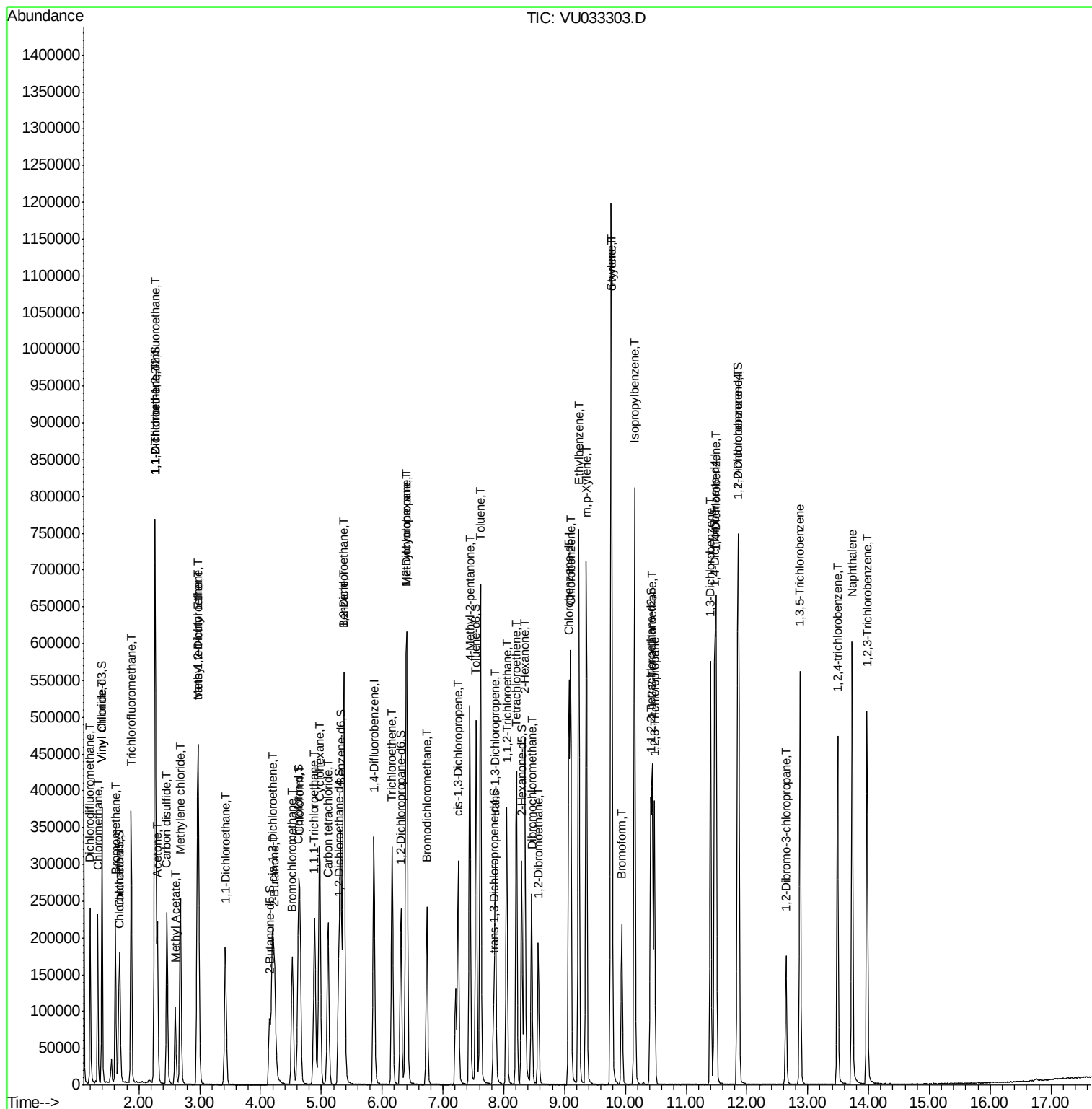
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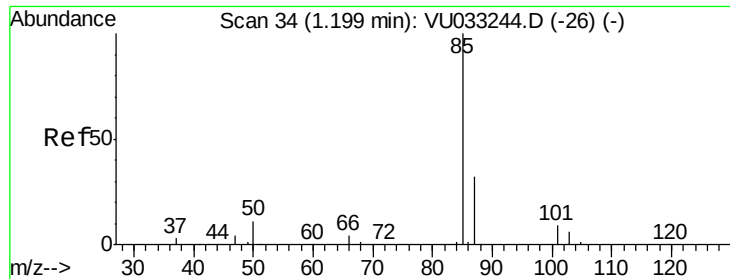
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#2

Dichlorodifluoromethane

Concen: 53.145 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033303.D

Acq: 18 Jul 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

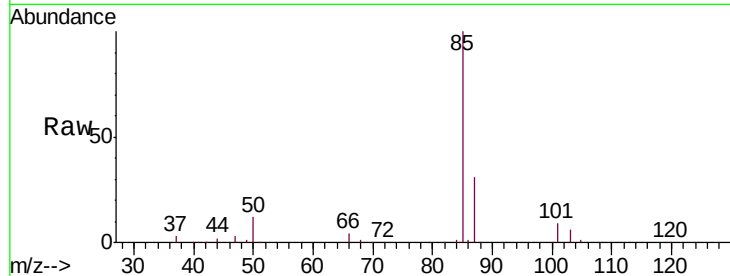
VSTD05051

Tgt Ion: 85 Resp: 147748

Ion Ratio Lower Upper

85 100

87 31.7 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033303.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033303.D (-1) (-)

1.20

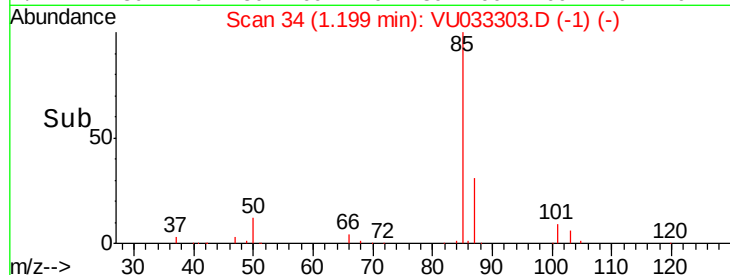
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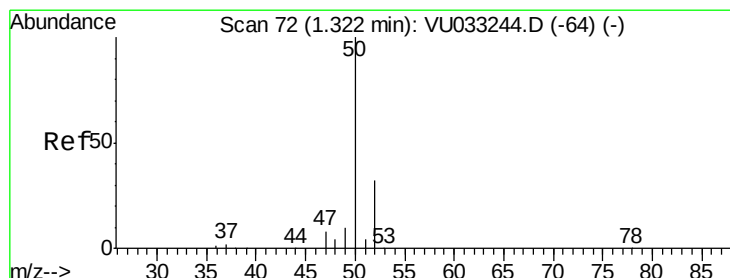
50000

0

Time-->



Time-->



#3

Chloromethane

Concen: 53.195 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033303.D

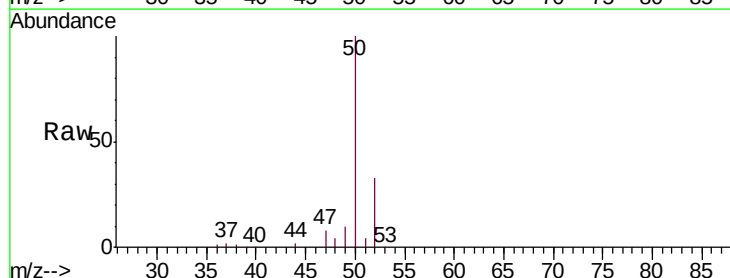
Acq: 18 Jul 2019 08:52

Tgt Ion: 50 Resp: 145694

Ion Ratio Lower Upper

50 100

52 32.7 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU033303.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033303.D (-1) (-)

1.32

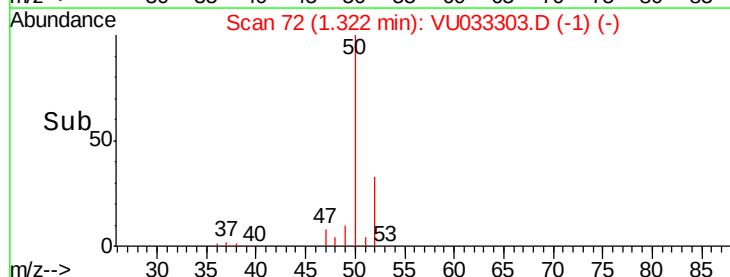
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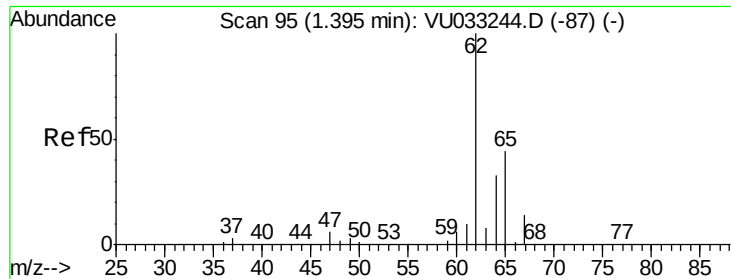
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Time-->



Time-->



#5

Vinyl chloride

Concen: 50.843 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033303.D

Acq: 18 Jul 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

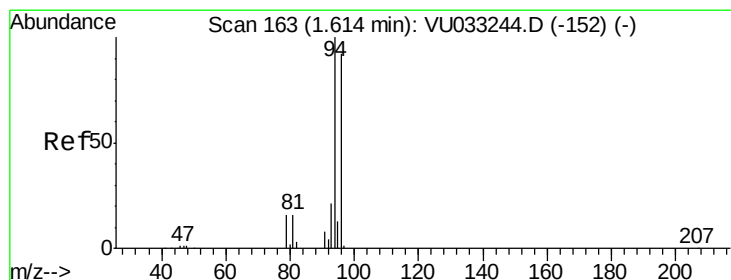
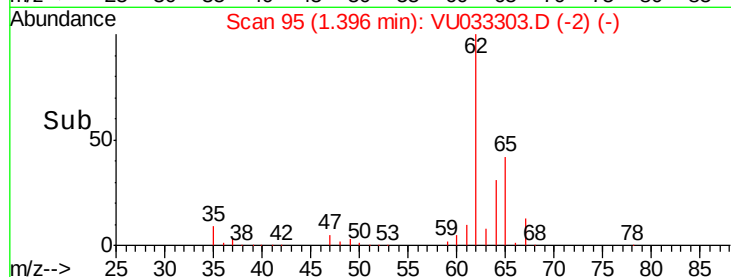
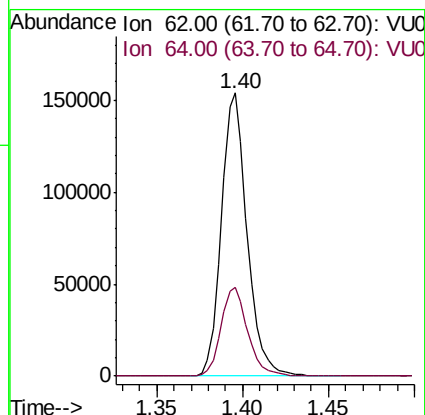
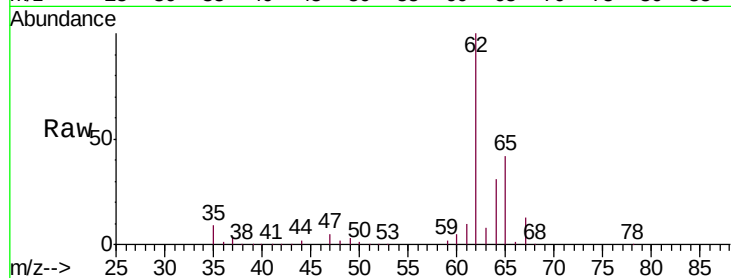
VSTD05051

Tgt Ion: 62 Resp: 160953

Ion Ratio Lower Upper

62 100

64 31.4 22.7 42.3



#6

Bromomethane

Concen: 53.624 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU033303.D

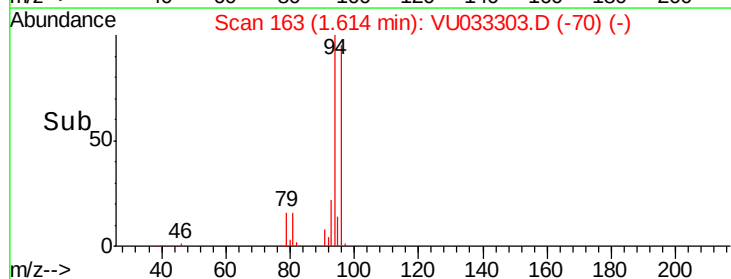
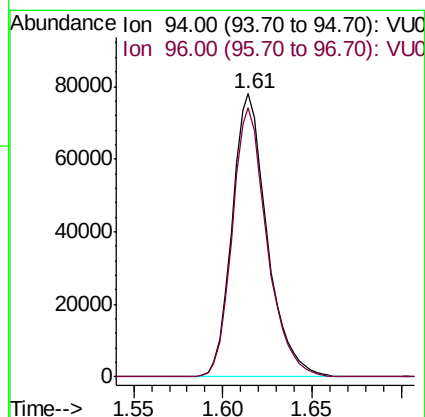
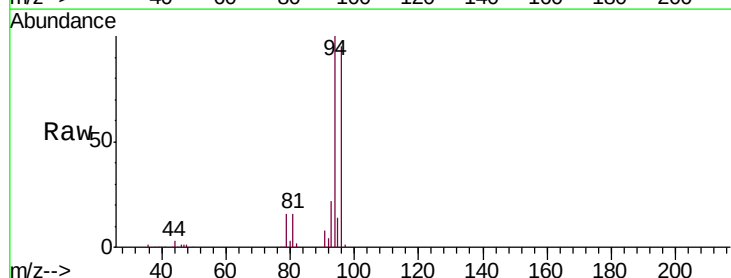
Acq: 18 Jul 2019 08:52

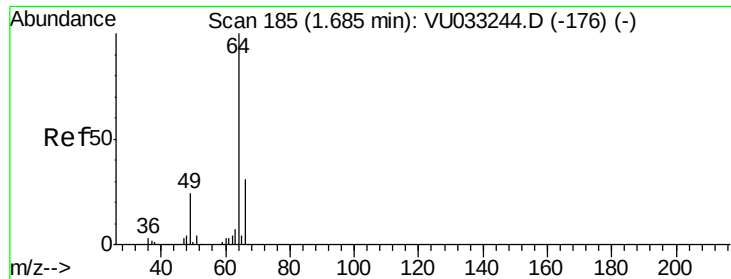
Tgt Ion: 94 Resp: 105830

Ion Ratio Lower Upper

94 100

96 95.0 66.1 122.7





#8

Chloroethane

Concen: 52.631 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033303.D

Acq: 18 Jul 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

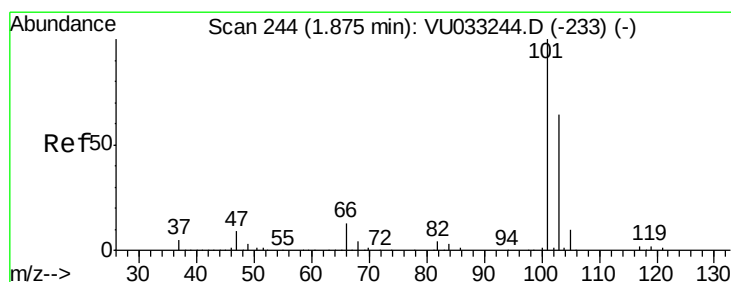
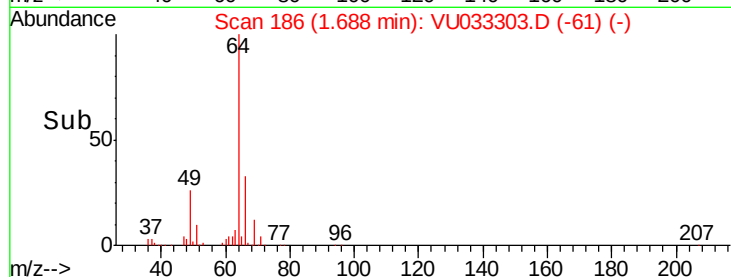
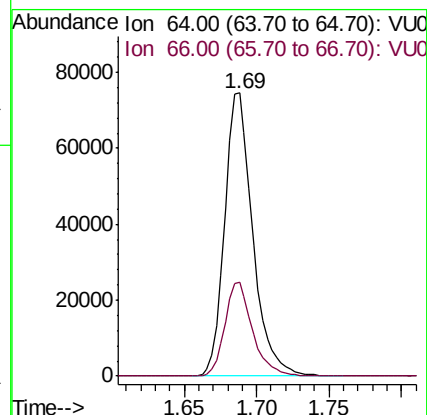
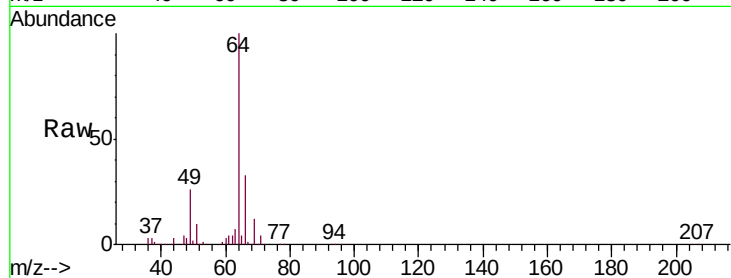
VSTD05051

Tgt Ion: 64 Resp: 100777

Ion Ratio Lower Upper

64 100

66 33.0 21.6 40.0



#9

Trichlorofluoromethane

Concen: 52.618 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033303.D

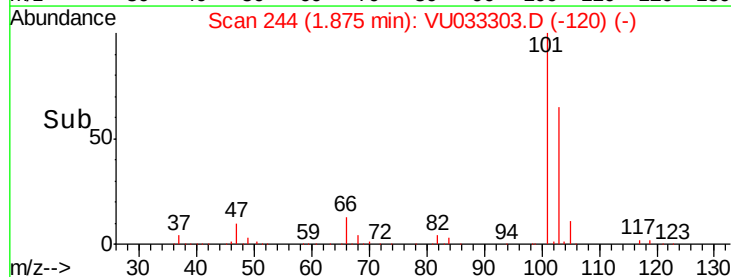
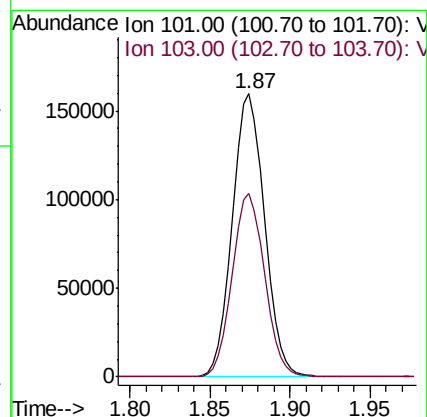
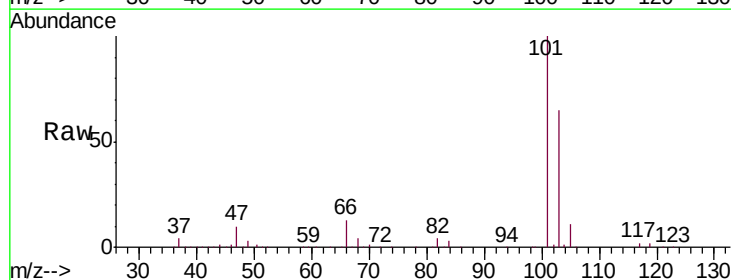
Acq: 18 Jul 2019 08:52

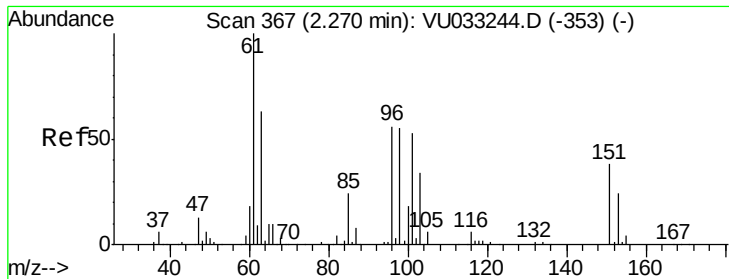
Tgt Ion: 101 Resp: 219038

Ion Ratio Lower Upper

101 100

103 65.5 52.2 78.4





#10

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

Concen: 59.441 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033303.D

Acq: 18 Jul 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

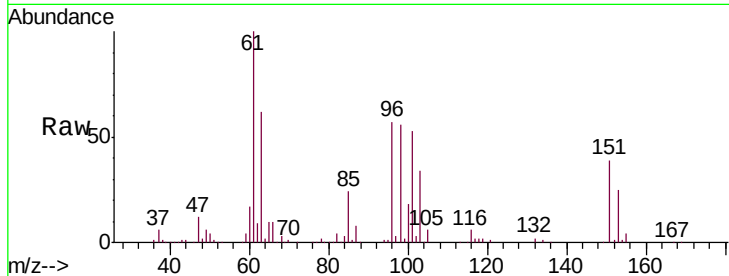
Tgt Ion: 101 Resp: 113762

Ion Ratio Lower Upper

101 100

85 44.9 35.8 53.8

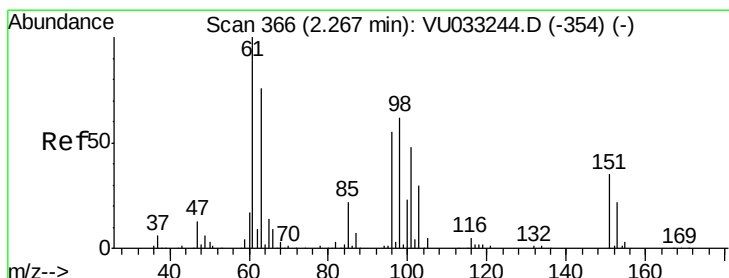
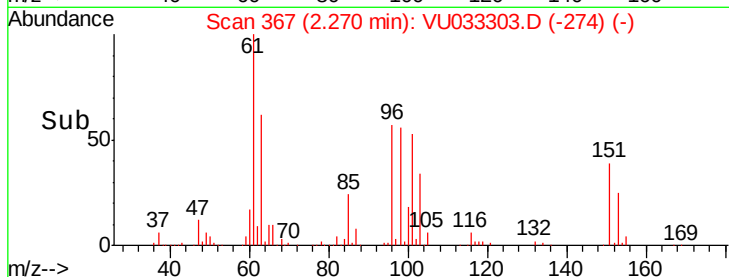
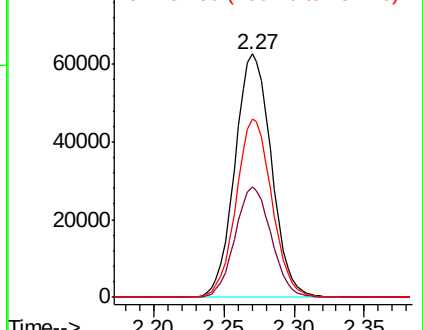
151 71.8 56.7 85.1



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: 55.584 ug/L

RT: 2.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU033303.D

Acq: 18 Jul 2019 08:52

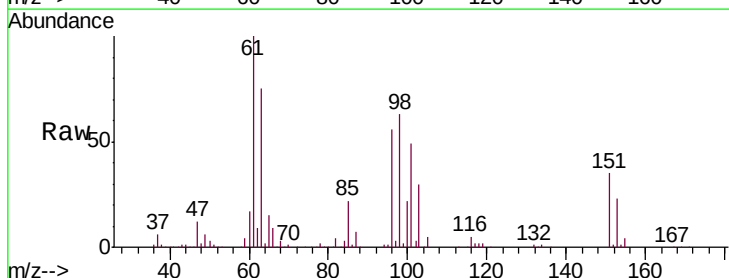
Tgt Ion: 96 Resp: 104081

Ion Ratio Lower Upper

96 100

61 180.1 126.1 234.1

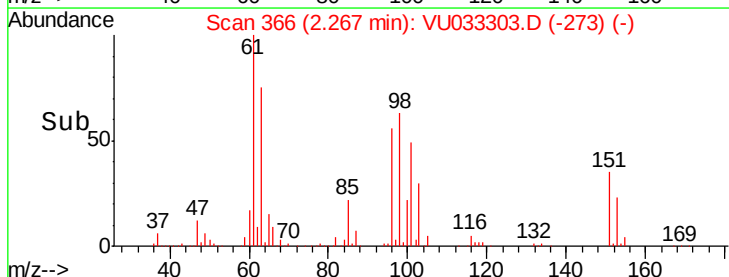
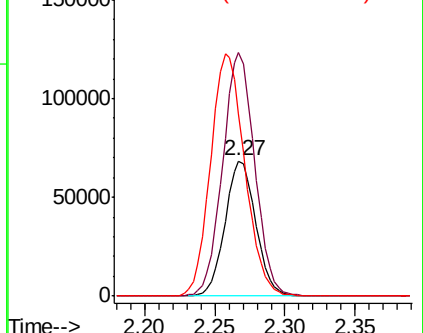
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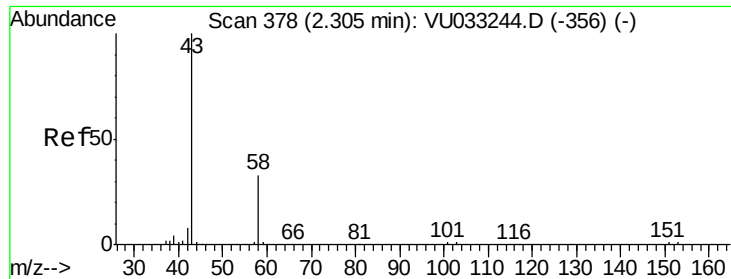


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

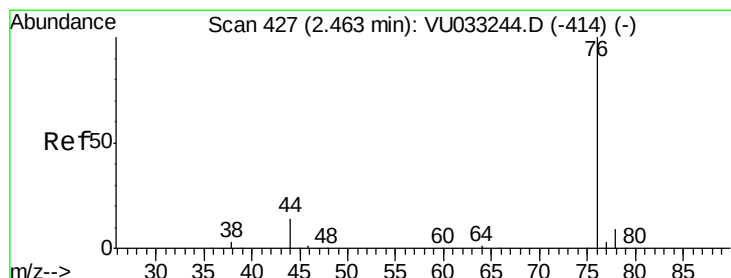
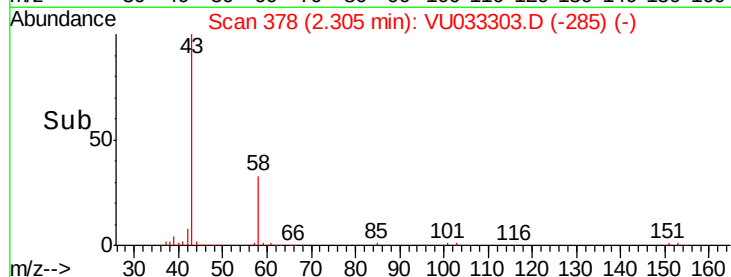
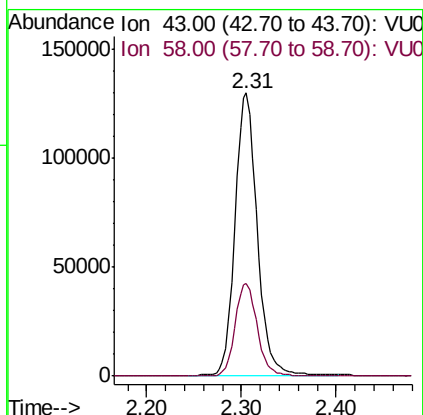
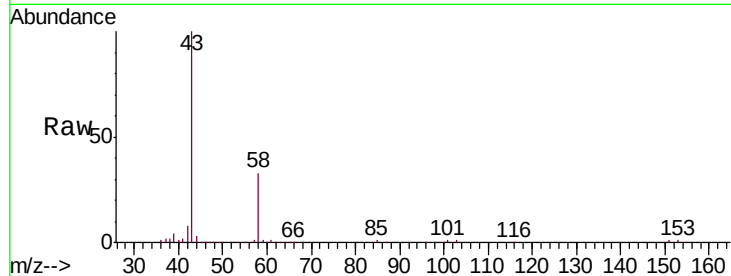




#13
Acetone
Concen: 126.281 ug/L
RT: 2.31 min Scan# 378
Delta R.T. 0.00 min
Lab File: VU033303.D
Acq: 18 Jul 2019 08:52

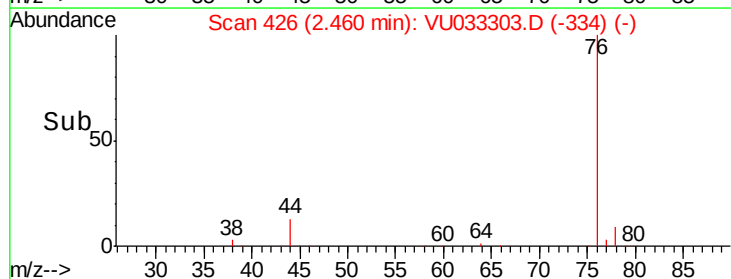
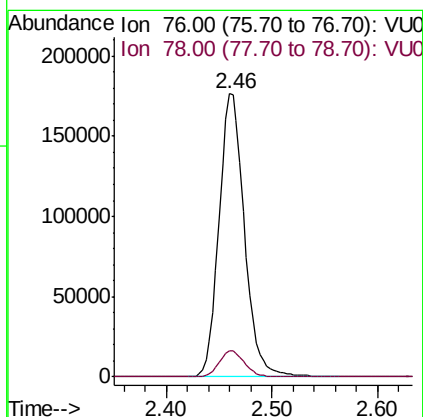
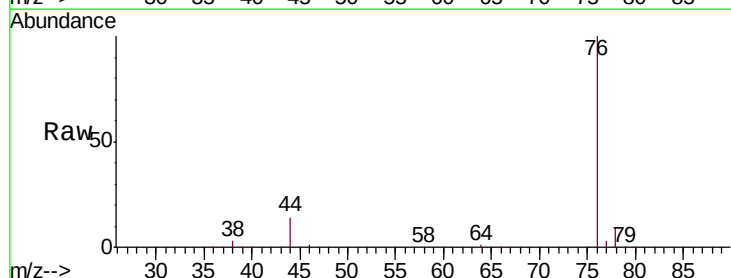
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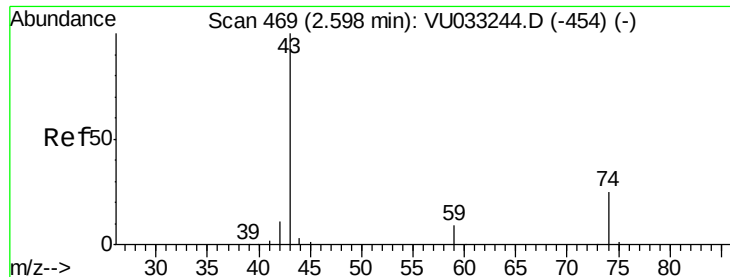
Tgt Ion: 43 Resp: 212306
Ion Ratio Lower Upper
43 100
58 32.5 0.0 65.4



#14
Carbon disulfide
Concen: 51.457 ug/L
RT: 2.46 min Scan# 426
Delta R.T. -0.00 min
Lab File: VU033303.D
Acq: 18 Jul 2019 08:52

Tgt Ion: 76 Resp: 294684
Ion Ratio Lower Upper
76 100
78 9.0 7.4 11.2

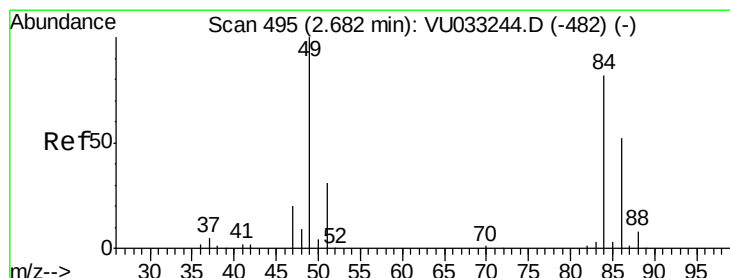
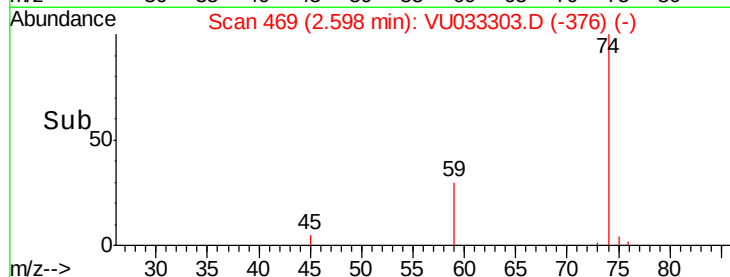
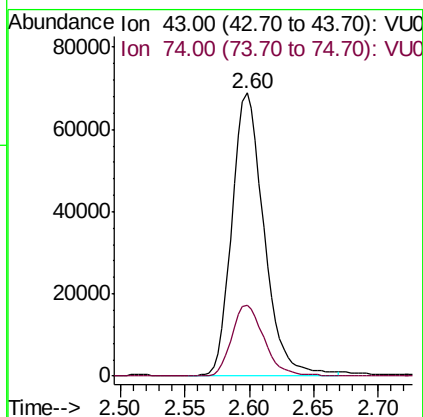
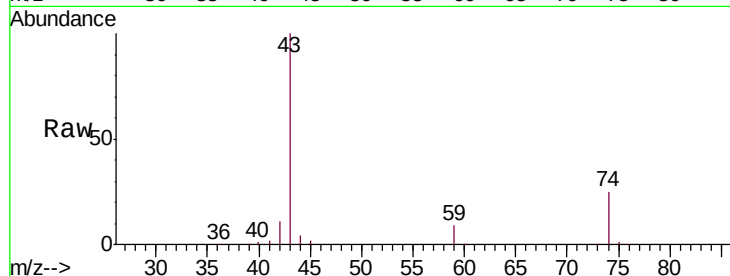




#15
Methyl Acetate
Concen: 54.001 ug/L
RT: 2.60 min Scan# 469
Delta R.T. 0.00 min
Lab File: VU033303.D
Acq: 18 Jul 2019 08:52

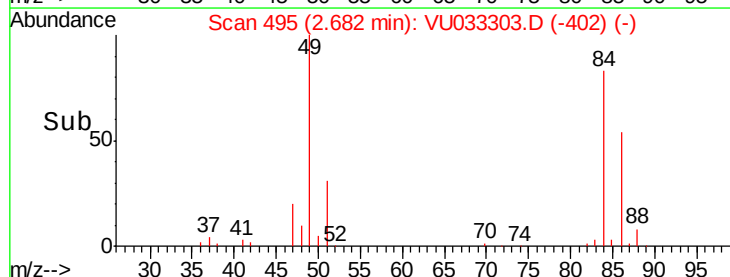
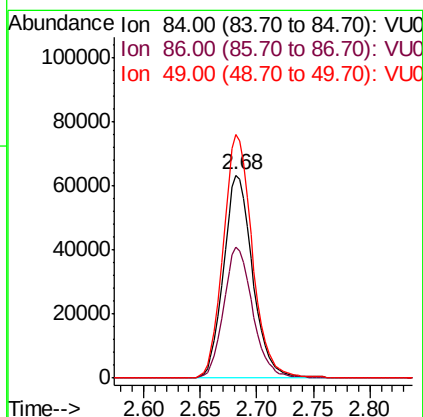
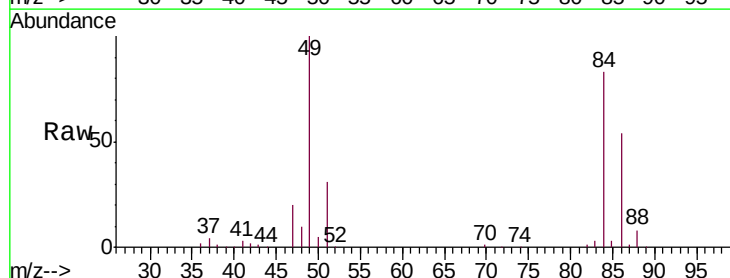
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

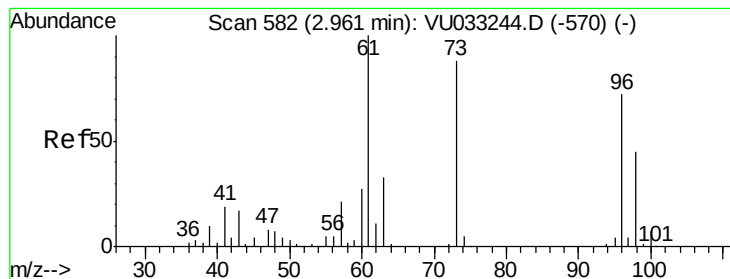
Tgt Ion: 43 Resp: 118557
Ion Ratio Lower Upper
43 100
74 25.3 19.9 29.9



#16
Methylene chloride
Concen: 53.161 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU033303.D
Acq: 18 Jul 2019 08:52

Tgt Ion: 84 Resp: 113654
Ion Ratio Lower Upper
84 100
86 64.3 45.7 84.9
49 119.9 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 51.642 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033303.D

Acq: 18 Jul 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

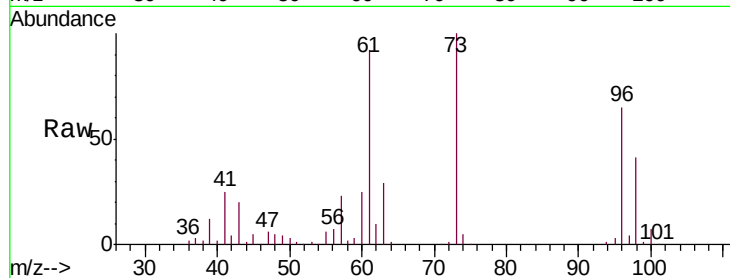
Tgt Ion: 96 Resp: 99942

Ion Ratio Lower Upper

96 100

61 141.1 100.2 186.2

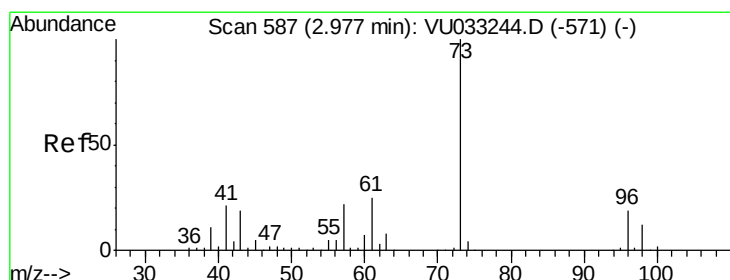
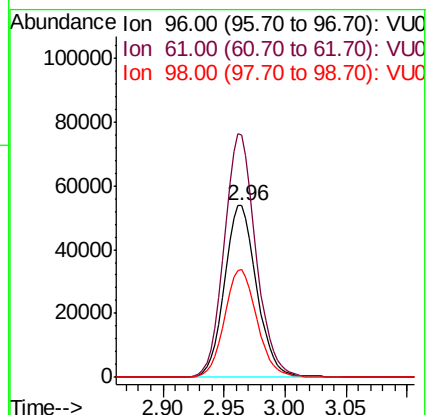
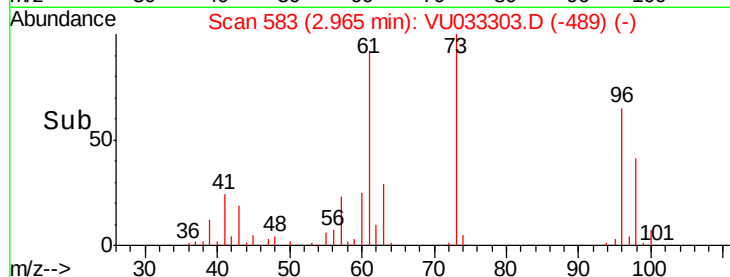
98 62.6 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VU033303.D (-489) (-)

Ion 61.00 (60.70 to 61.70): VU033303.D (-489) (-)

Ion 98.00 (97.70 to 98.70): VU033303.D (-489) (-)



#18

Methyl tert-butyl Ether

Concen: 50.502 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033303.D

Acq: 18 Jul 2019 08:52

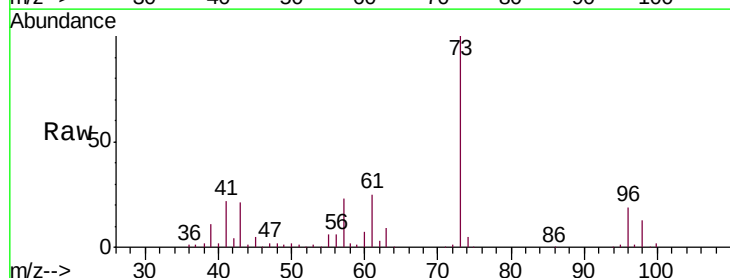
Tgt Ion: 73 Resp: 301673

Ion Ratio Lower Upper

73 100

43 20.5 15.7 23.5

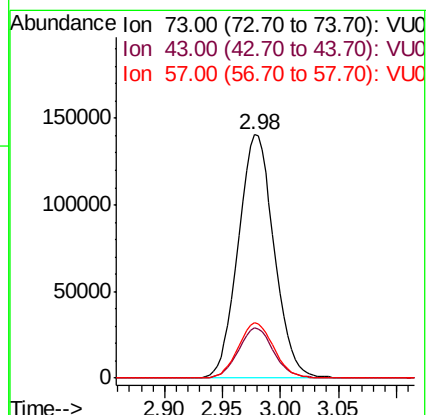
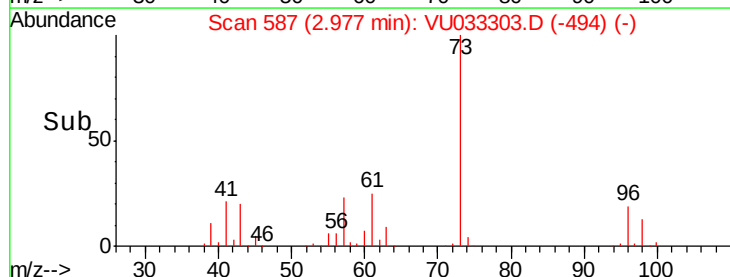
57 22.5 17.8 26.6

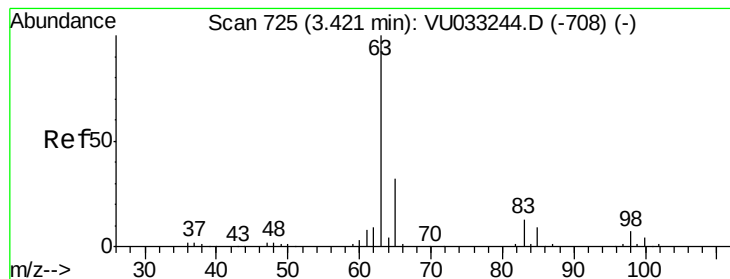


Abundance Ion 73.00 (72.70 to 73.70): VU033303.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU033303.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU033303.D (-494) (-)





#19

1,1-Dichloroethane

Concen: 53.051 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU033303.D

Acq: 18 Jul 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

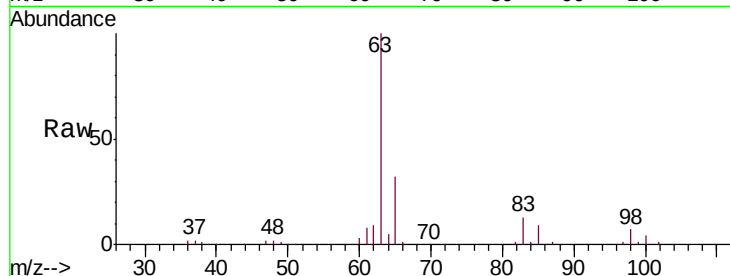
Tgt Ion: 63 Resp: 197349

Ion Ratio Lower Upper

63 100

65 31.8 22.3 41.5

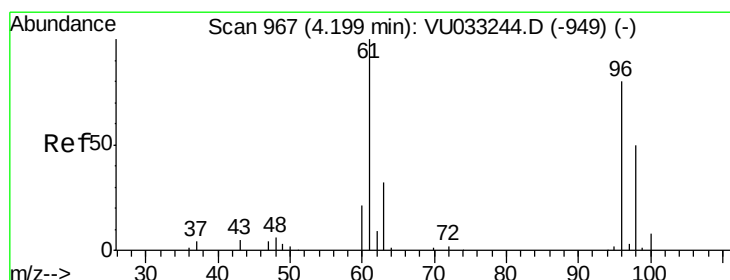
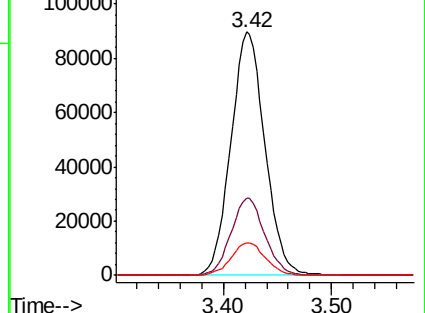
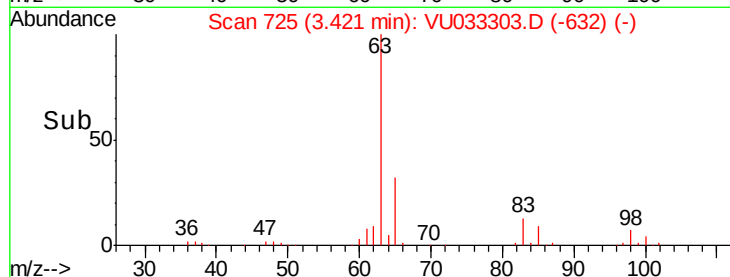
83 13.4 9.3 17.3



Abundance Ion 63.00 (62.70 to 63.70): VU033303.D (-632) (-)

Ion 65.00 (64.70 to 65.70): VU033303.D (-632) (-)

Ion 83.00 (82.70 to 83.70): VU033303.D (-632) (-)



#20

cis-1,2-Dichloroethene

Concen: 51.749 ug/L

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU033303.D

Acq: 18 Jul 2019 08:52

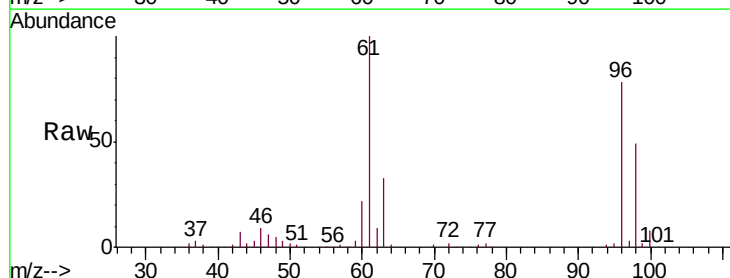
Tgt Ion: 96 Resp: 112963

Ion Ratio Lower Upper

96 100

61 127.6 91.1 169.1

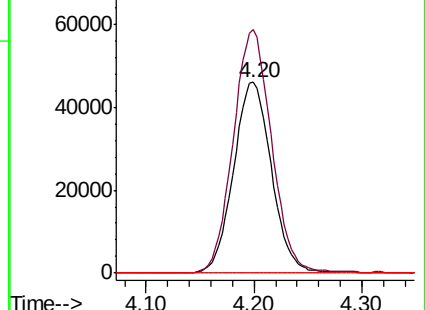
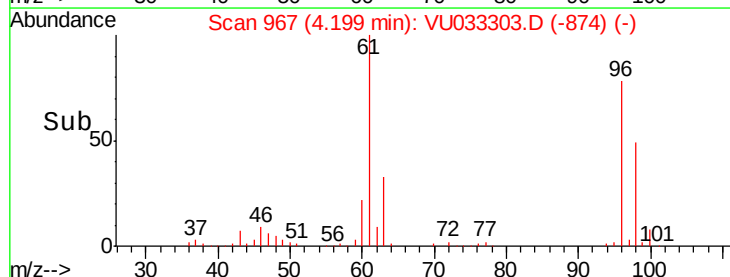
68 0.0 0.0 0.0

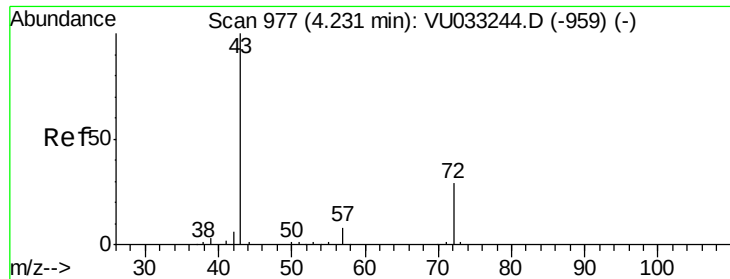


Abundance Ion 96.00 (95.70 to 96.70): VU033303.D (-874) (-)

Ion 61.00 (60.70 to 61.70): VU033303.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU033303.D (-874) (-)





#22

2-Butanone

Concen: 115.804 ug/L

RT: 4.23 min Scan# 977

Delta R.T. 0.00 min

Lab File: VU033303.D

Acq: 18 Jul 2019 08:52

Instrument :

MSVOA_U

ClientSampleId :

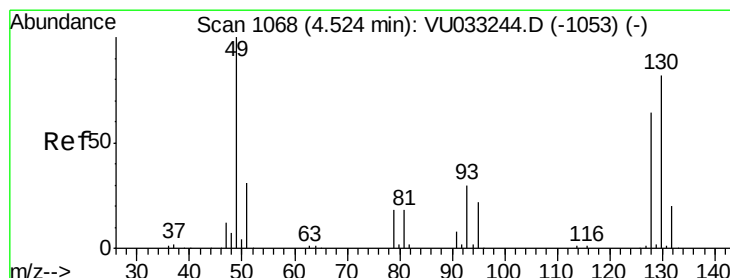
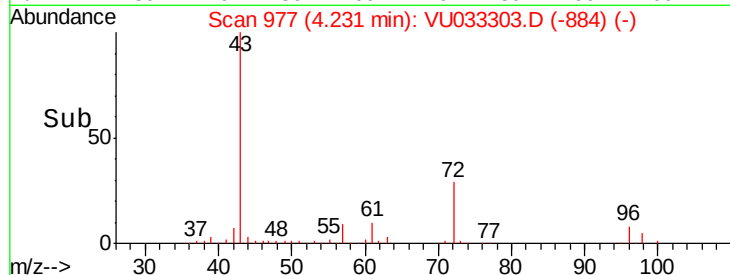
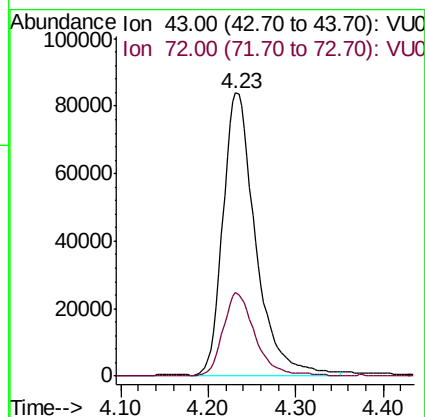
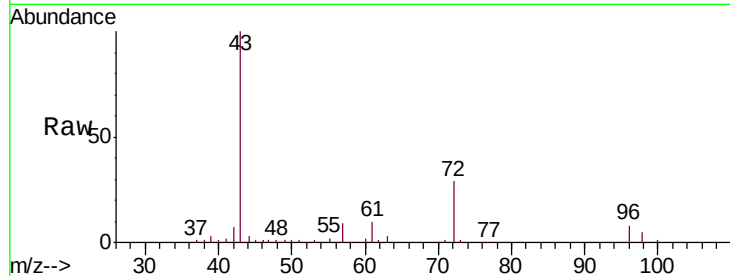
VSTD05051

Tgt Ion: 43 Resp: 216283

Ion Ratio Lower Upper

43 100

72 28.2 14.4 43.2



#23

Bromochloromethane

Concen: 54.622 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033303.D

Acq: 18 Jul 2019 08:52

Tgt Ion: 128 Resp: 61055

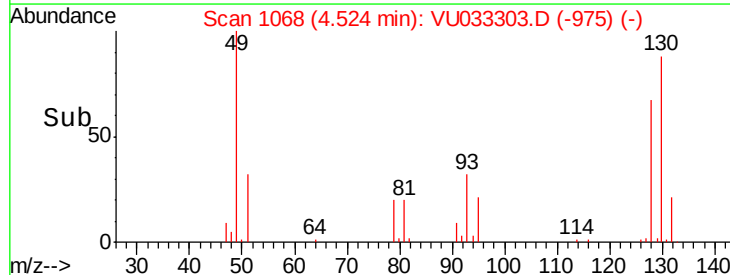
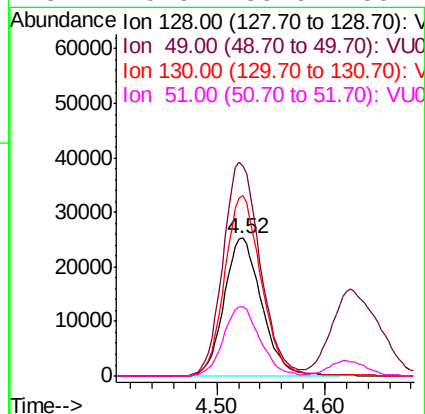
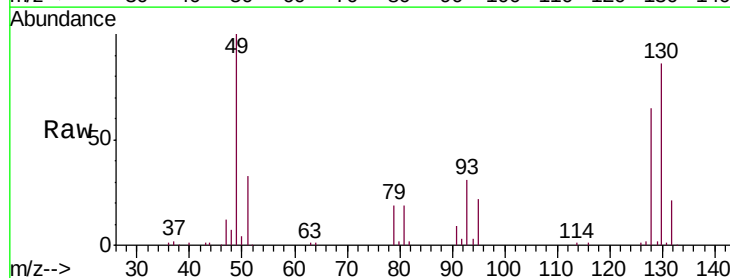
Ion Ratio Lower Upper

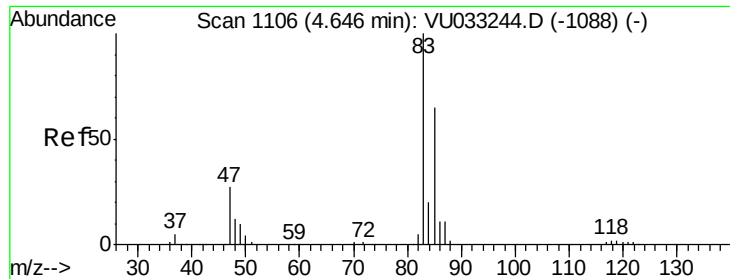
128 100

49 152.8 107.2 199.2

130 131.4 87.0 161.6

51 49.9 39.6 59.4

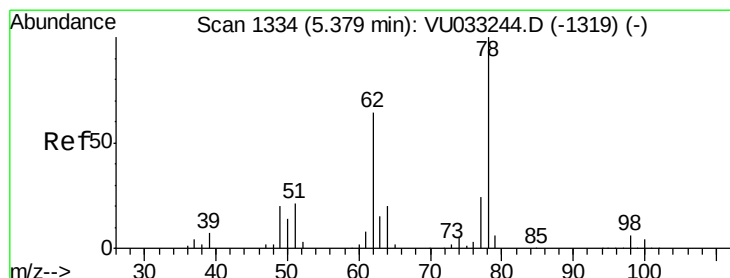
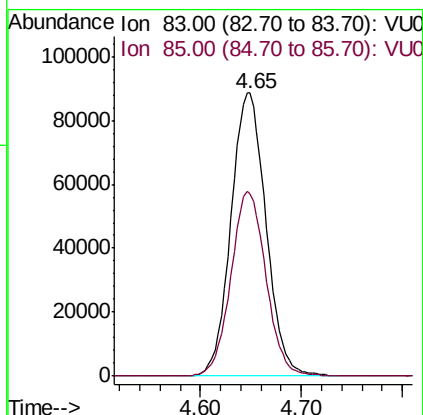
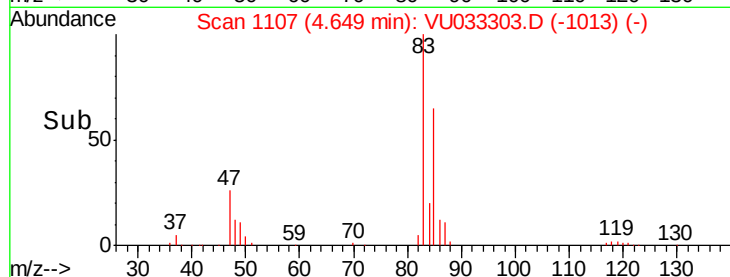
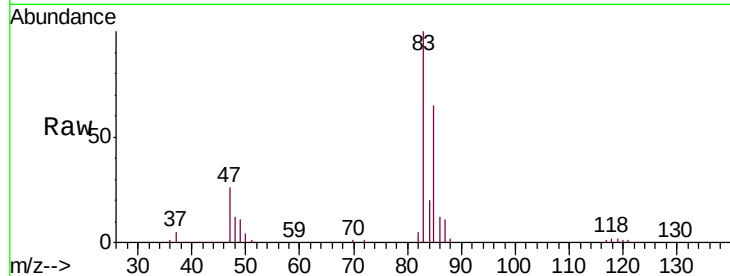




#25
Chloroform
Concen: 53.919 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033303.D
Acq: 18 Jul 2019 08:52

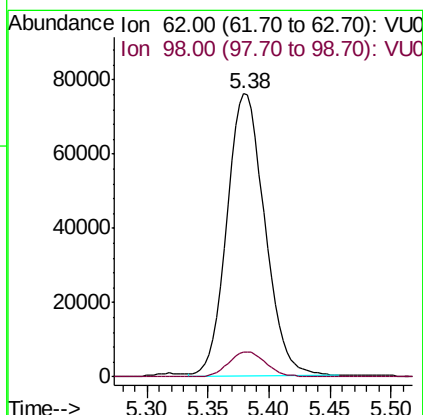
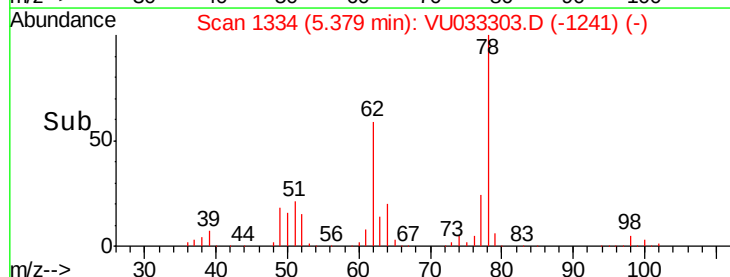
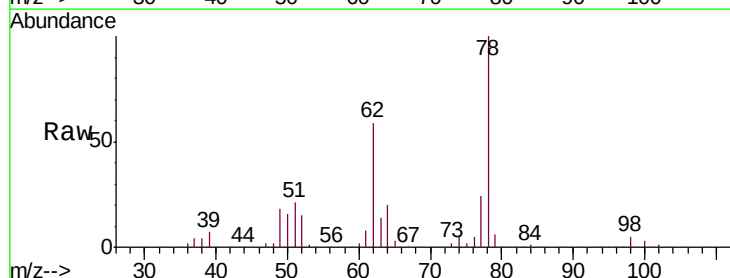
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

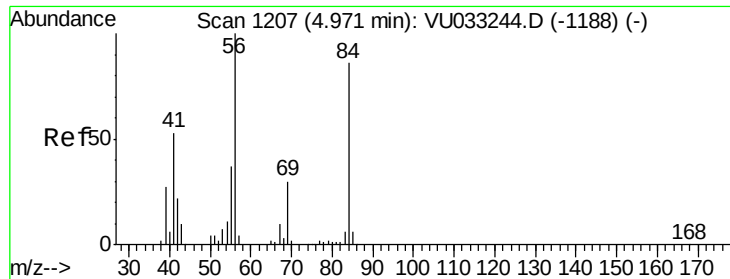
Tgt Ion: 83 Resp: 213327
Ion Ratio Lower Upper
83 100
85 64.5 45.4 84.4



#27
1,2-Dichloroethane
Concen: 53.721 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU033303.D
Acq: 18 Jul 2019 08:52

Tgt Ion: 62 Resp: 164583
Ion Ratio Lower Upper
62 100
98 8.8 7.0 10.6

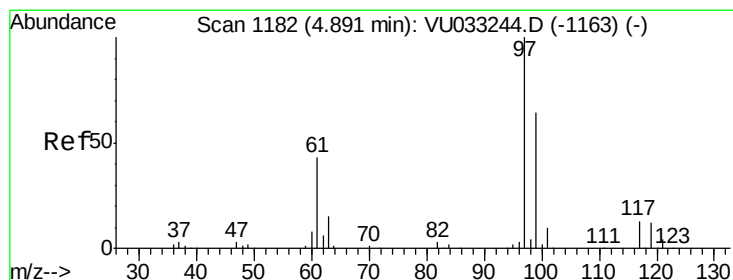
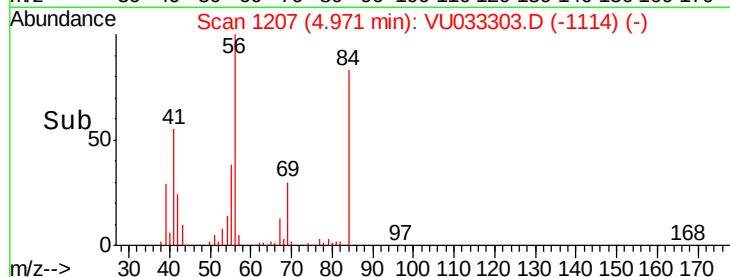
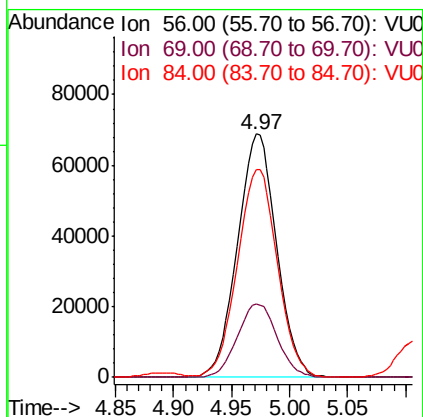
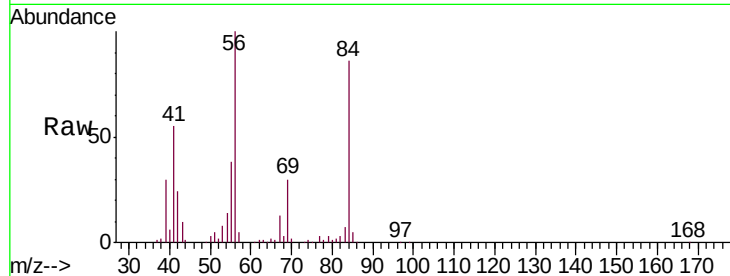




#29
Cyclohexane
Concen: 51.312 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033303.D
Acq: 18 Jul 2019 08:52

Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

Tgt Ion: 56 Resp: 161723
Ion Ratio Lower Upper
56 100
69 30.8 24.7 37.1
84 87.0 70.2 105.2



#30
1,1,1-Trichloroethane
Concen: 52.858 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033303.D
Acq: 18 Jul 2019 08:52

Tgt Ion: 97 Resp: 178368
Ion Ratio Lower Upper
97 100
99 63.4 51.5 77.3
61 44.5 36.4 54.6

