

Data File : VU037612.D
Acq On : 09 Apr 2020 12:04
Operator : JC/MD
Sample : VSTD005
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00531

Quant Time: Apr 09 12:22:19 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040920WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Apr 09 10:58:31 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	576699	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	543507	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	267064	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	22211	4.74	ug/L	0.00
7) Chloroethane-d5	1.93	69	17920	4.76	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	36995	4.70	ug/L	0.00
21) 2-Butanone-d5	4.67	46	36163	10.27	ug/L	0.00
24) Chloroform-d	5.11	84	33357	4.23	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	22917	4.37	ug/L	0.00
32) Benzene-d6	5.76	84	70301	4.46	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.72	67	23216	4.38	ug/L	0.00
41) Toluene-d8	7.92	98	66474	4.53	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.20	79	13457	4.68	ug/L	0.00
47) 2-Hexanone-d5	8.65	63	25665	9.14	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.77	84	32761	4.32	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.20	152	25629	4.70	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.40	85	20761	5.569 ug/L	99
3) Chloromethane	1.54	50	23179	5.861 ug/L	99
5) Vinyl chloride	1.62	62	24968	6.358 ug/L	98
6) Bromomethane	1.87	94	13147	6.788 ug/L	97
8) Chloroethane	1.95	64	15107	6.523 ug/L	97
9) Trichlorofluoromethane	2.16	101	27217	4.885 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	17324	5.451 ug/L	98
12) 1,1-Dichloroethene	2.61	96	16840	5.459 ug/L	94
13) Acetone	2.66	43	22220	10.920 ug/L	98
14) Carbon disulfide	2.82	76	63189	7.091 ug/L	99
15) Methyl Acetate	2.98	43	25865	5.609 ug/L	99
16) Methylene chloride	3.08	84	19530	5.219 ug/L	97
17) trans-1,2-Dichloroethene	3.39	96	18578	5.593 ug/L	98
18) Methyl tert-butyl Ether	3.40	73	61554	5.286 ug/L	99
19) 1,1-Dichloroethane	3.91	63	35497	5.454 ug/L	97
20) cis-1,2-Dichloroethene	4.71	96	19725	5.156 ug/L	99
22) 2-Butanone	4.75	43	38330	11.541 ug/L	100
23) Bromochloromethane	5.02	128	9686	5.275 ug/L	95
25) Chloroform	5.13	83	32692	4.818 ug/L	98
27) 1,2-Dichloroethane	5.83	62	27245	5.202 ug/L	97
29) Cyclohexane	5.42	56	34120	5.990 ug/L	98
30) 1,1,1-Trichloroethane	5.35	97	28042	4.867 ug/L	99
31) Carbon tetrachloride	5.56	117	22838	4.816 ug/L	99
33) Benzene	5.81	78	74989	5.266 ug/L	100
34) Trichloroethene	6.57	95	19225	5.163 ug/L	96
35) Methylcyclohexane	6.79	83	33460	5.816 ug/L	98
37) 1,2-Dichloropropane	6.82	63	20980	5.171 ug/L	97
38) Bromodichloromethane	7.13	83	25805	4.890 ug/L	98
39) cis-1,3-Dichloropropene	7.63	75	32912	5.193 ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	74389	11.298 ug/L	100

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ClientSampleId :
VSTD00531

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040920WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Apr 09 10:58:31 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.99	91	80383	5.216	ug/L	98
44) trans-1,3-Dichloropropene	8.23	75	32536	5.213	ug/L	97
45) 1,1,2-Trichloroethane	8.42	97	18447	4.979	ug/L	97
46) Tetrachloroethene	8.57	164	13921	5.568	ug/L	97
48) 2-Hexanone	8.71	43	60685	11.852	ug/L	99
49) Dibromochloromethane	8.83	129	19432	4.703	ug/L	98
50) 1,2-Dibromoethane	8.94	107	20186	4.955	ug/L	98
51) Chlorobenzene	9.47	112	50520	5.285	ug/L	99
52) Ethylbenzene	9.59	91	88639	5.086	ug/L	100
53) m,p-Xylene	9.71	106	34130	5.250	ug/L	99
54) o-xylene	10.12	106	32776	5.231	ug/L	100
55) Styrene	10.13	104	57476	5.181	ug/L	98
56) Isopropylbenzene	10.50	105	86646	5.101	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.80	83	32674	4.892	ug/L	98
59) 1,2,3-Trichloropropane	10.84	75	28459	5.456	ug/L	100
61) Bromoform	10.31	173	14872	4.871	ug/L #	97
62) 1,3-Dichlorobenzene	11.76	146	40648	5.271	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	41099	5.281	ug/L	98
65) 1,2-Dichlorobenzene	12.22	146	40303	5.278	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.01	75	9313	5.085	ug/L	99
67) 1,3,5-Trichlorobenzene	13.24	180	29343	5.482	ug/L	97
68) 1,2,4-trichlorobenzene	13.87	180	30385	5.955	ug/L	99
69) Naphthalene	14.11	128	122501	5.667	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	30437	5.905	ug/L	97

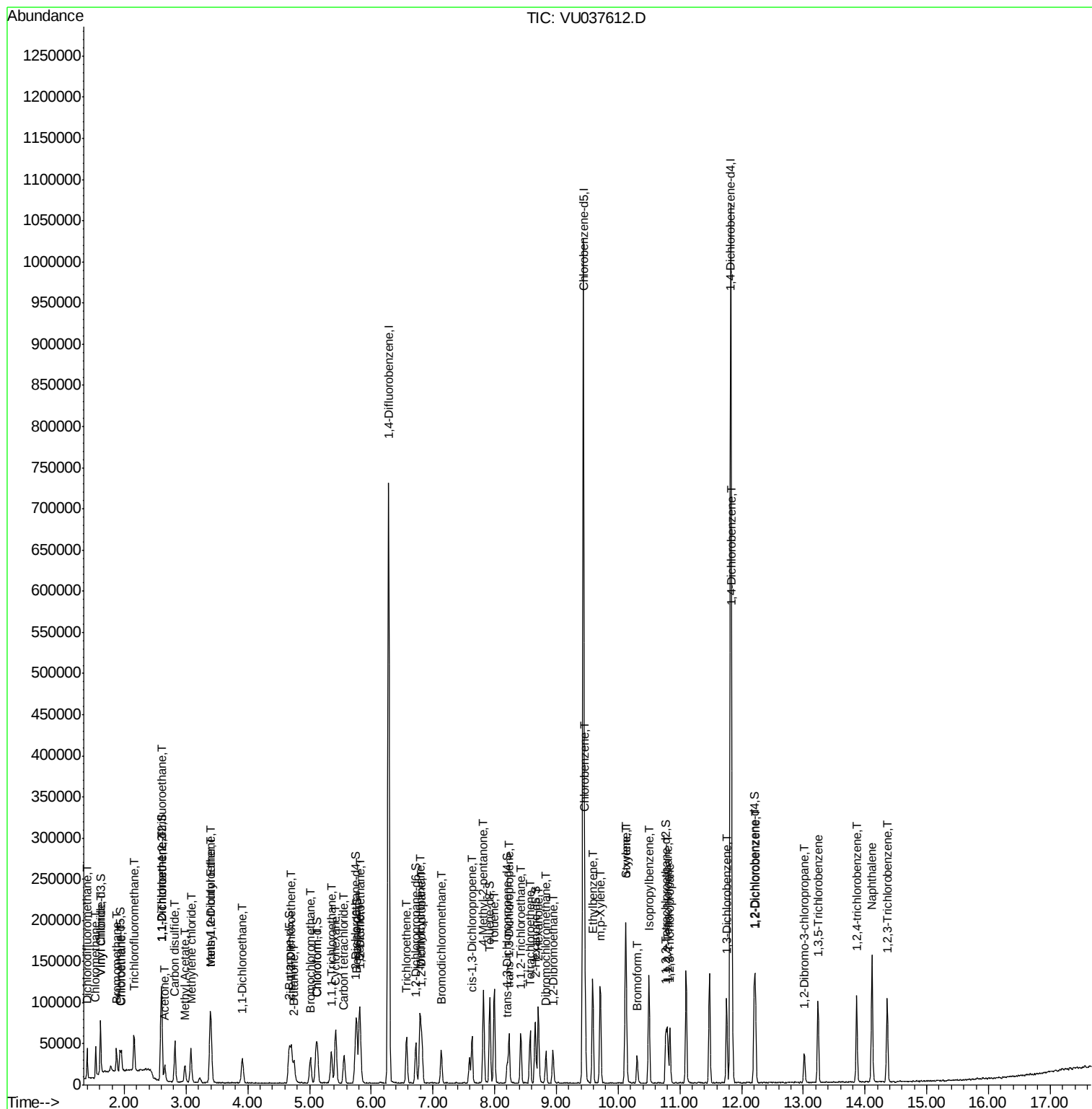
(#) = qualifier out of range (m) = manual integration (+) = signals summed

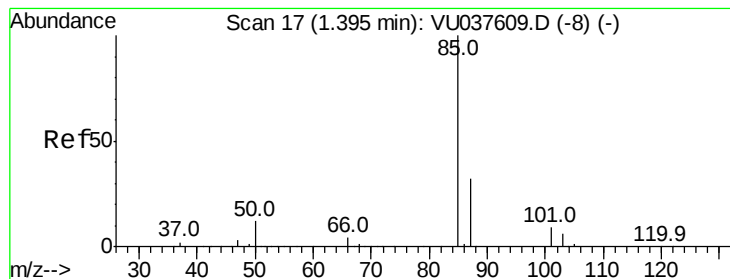
Data File : VU037612.D

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Acq On       : 09 Apr 2020   12:04
Operator    : JC/MD
Sample      : VSTD005
Misc       : 5.0mL/MSVOA_U/WATER
ALS Vial    : 1      Sample Multiplier: 1
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Instrument :
MSVOA_U
ClientSampleId :
VSTD00531

Quant Time: Apr 09 12:22:19 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040920WMA.M
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#2

Dichlorodifluoromethane

Concen: 5.569 ug/L

RT: 1.40 min Scan# 18

Delta R.T. 0.00 min

Lab File: VU037612.D

Acq: 09 Apr 2020 12:04

Instrument :

MSVOA_U

ClientSampleId :

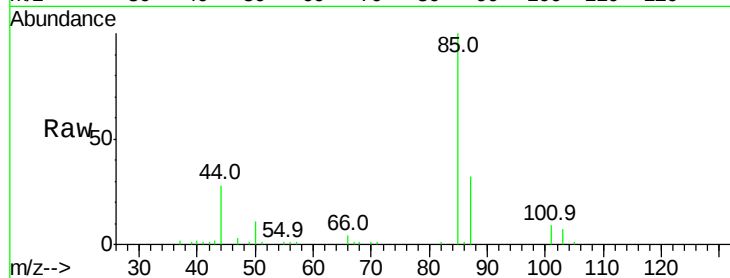
VSTD00531

Tgt Ion: 85 Resp: 20761

Ion Ratio Lower Upper

85 100

87 31.5 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU037612.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU037612.D (-1) (-)

25000

20000

15000

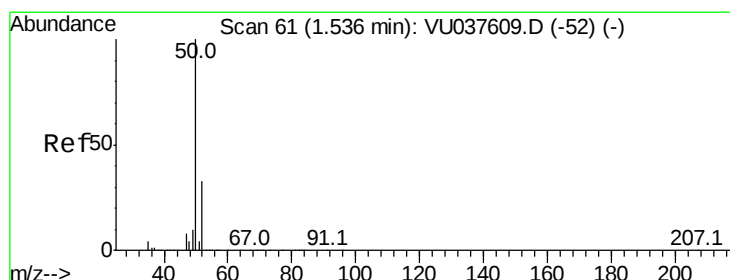
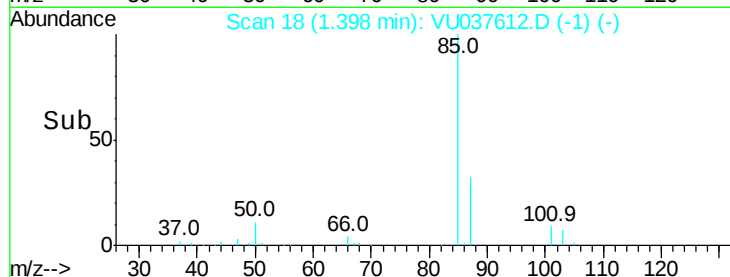
10000

5000

0

1.35 1.40 1.45

Time-->



#3

Chloromethane

Concen: 5.861 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037612.D

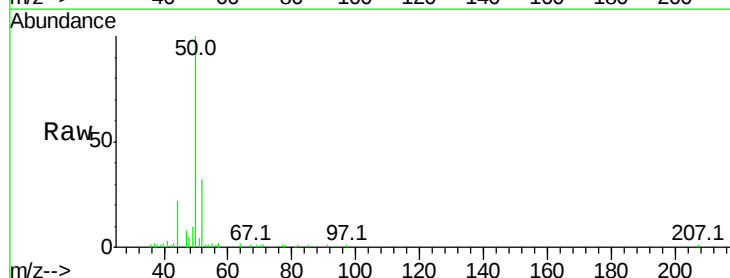
Acq: 09 Apr 2020 12:04

Tgt Ion: 50 Resp: 23179

Ion Ratio Lower Upper

50 100

52 32.5 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU037612.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU037612.D (-1) (-)

25000

20000

15000

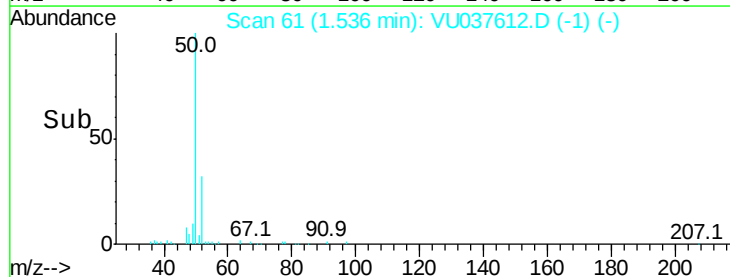
10000

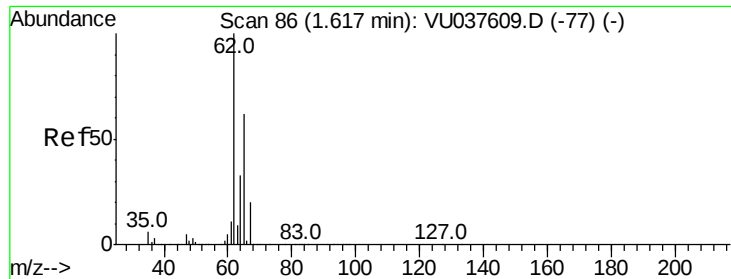
5000

0

1.50 1.55

Time-->





#5

Vinyl chloride

Concen: 6.358 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037612.D

Acq: 09 Apr 2020 12:04

Instrument :

MSVOA_U

ClientSampleId :

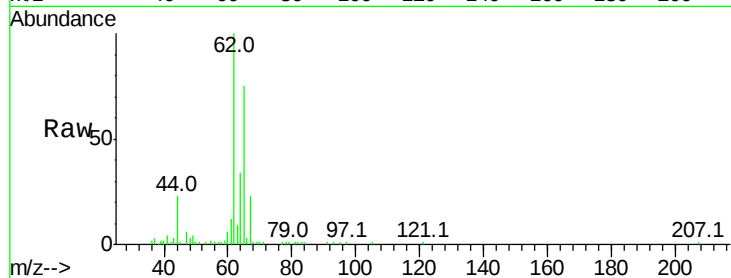
VSTD00531

Tgt Ion: 62 Resp: 24968

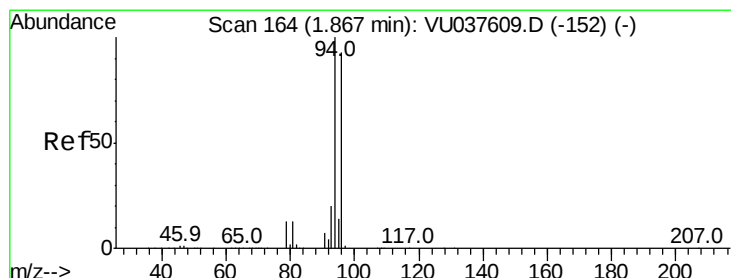
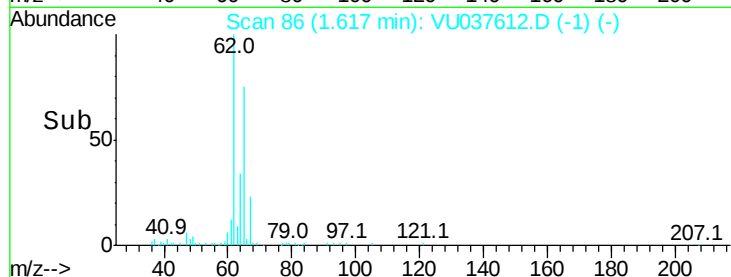
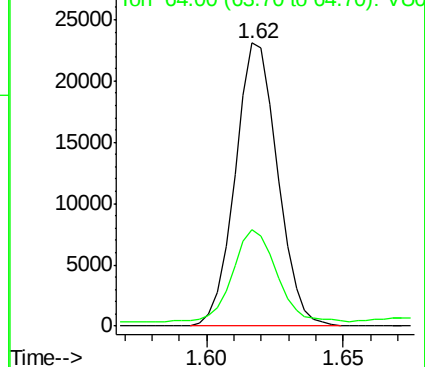
Ion Ratio Lower Upper

62 100

64 33.9 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU037612.D (-1) (-)



#6

Bromomethane

Concen: 6.788 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU037612.D

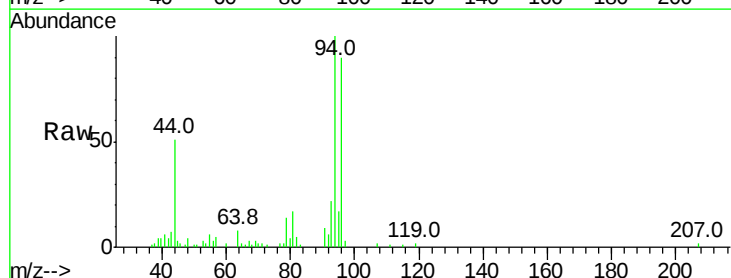
Acq: 09 Apr 2020 12:04

Tgt Ion: 94 Resp: 13147

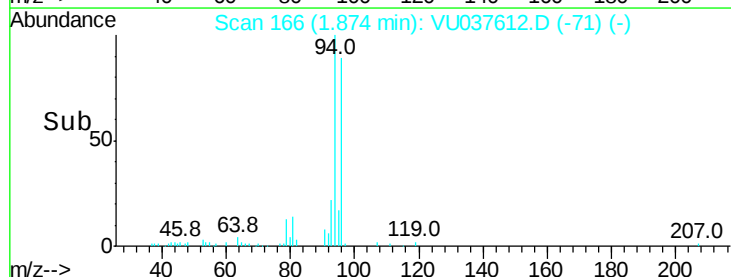
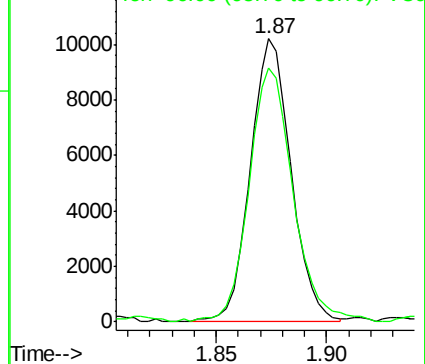
Ion Ratio Lower Upper

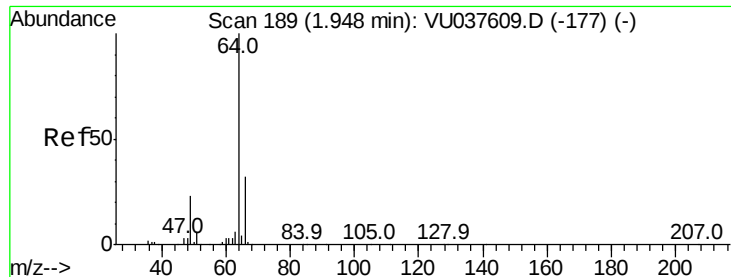
94 100

96 89.8 65.2 121.2



Abundance Ion 94.00 (93.70 to 94.70): VU037612.D (-71) (-)





#8

Chloroethane

Concen: 6.523 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU037612.D

Acq: 09 Apr 2020 12:04

Instrument :

MSVOA_U

ClientSampleId :

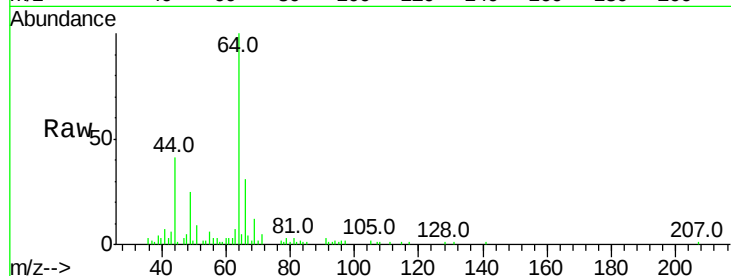
VSTD00531

Tgt Ion: 64 Resp: 15107

Ion Ratio Lower Upper

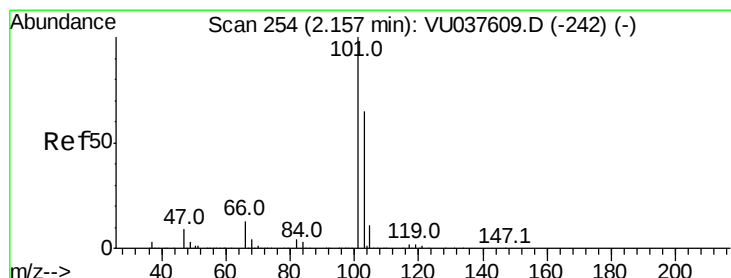
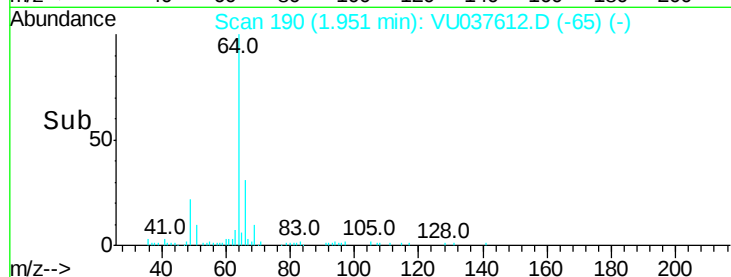
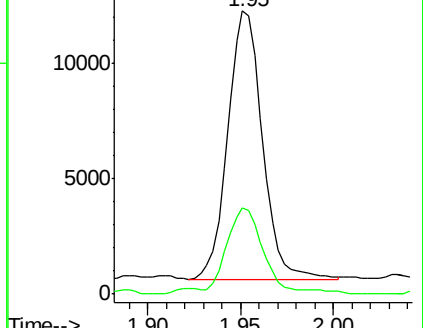
64 100

66 30.5 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VU037612.D (-190) (-)

Ion 66.00 (65.70 to 66.70): VU037612.D (-190) (-)



#9

Trichlorofluoromethane

Concen: 4.885 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU037612.D

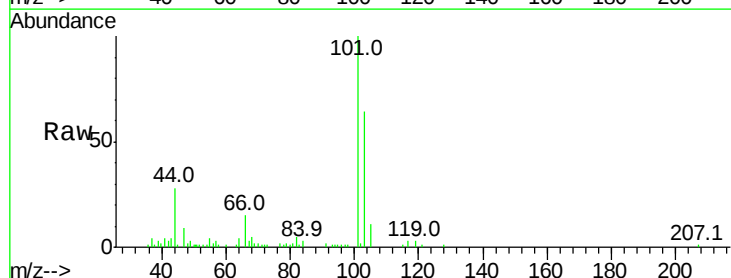
Acq: 09 Apr 2020 12:04

Tgt Ion: 101 Resp: 27217

Ion Ratio Lower Upper

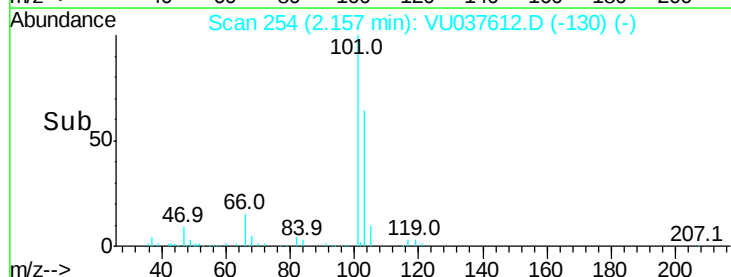
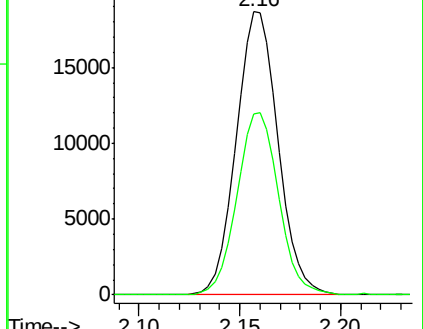
101 100

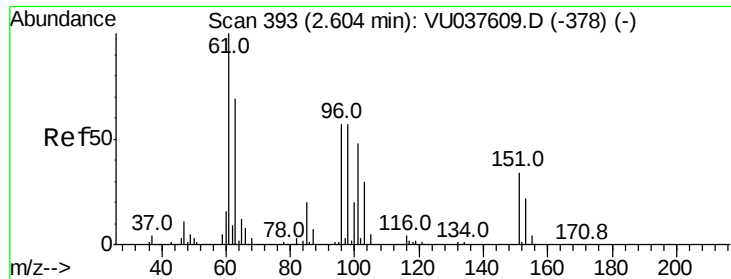
103 63.7 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): VU037612.D (-254) (-)

Ion 103.00 (102.70 to 103.70): VU037612.D (-254) (-)





#10

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

Concen: 5.451 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037612.D

Acq: 09 Apr 2020 12:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

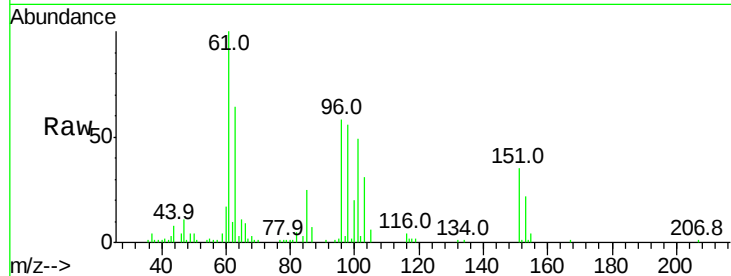
Tgt Ion:101 Resp: 17324

Ion Ratio Lower Upper

101 100

85 44.5 34.5 51.7

151 69.1 56.8 85.2

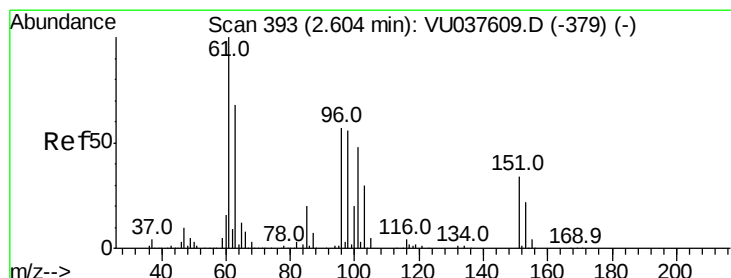
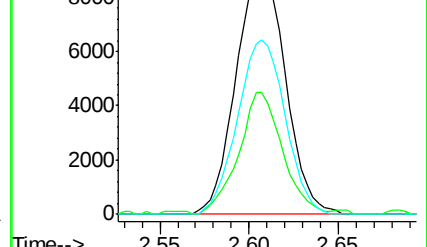
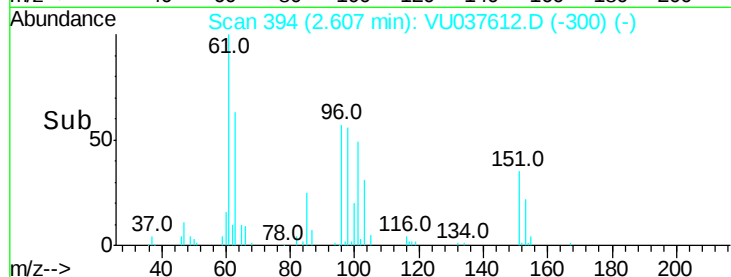


Abundance Ion 101.00 (100.70 to 101.70): VU037612.D (-300) (-)

Ion 85.00 (84.70 to 85.70): VU037612.D (-300) (-)

Ion 151.00 (150.70 to 151.70): VU037612.D (-300) (-)

Time-->



#12

1,1-Dichloroethene

Concen: 5.459 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037612.D

Acq: 09 Apr 2020 12:04

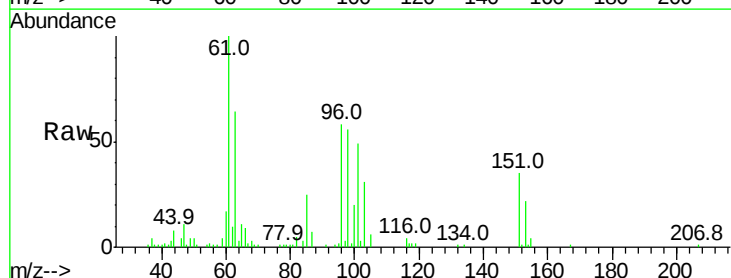
Tgt Ion: 96 Resp: 16840

Ion Ratio Lower Upper

96 100

61 171.9 123.6 229.6

63 110.1 85.7 159.1

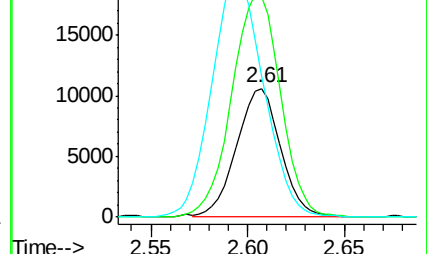
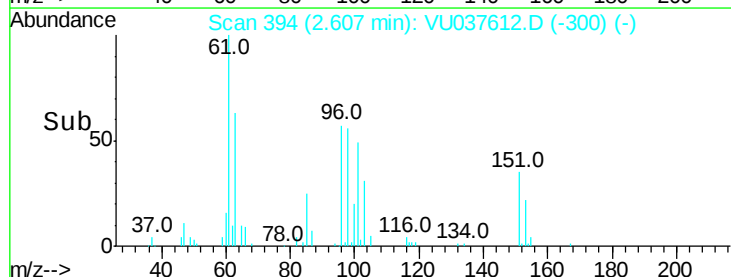


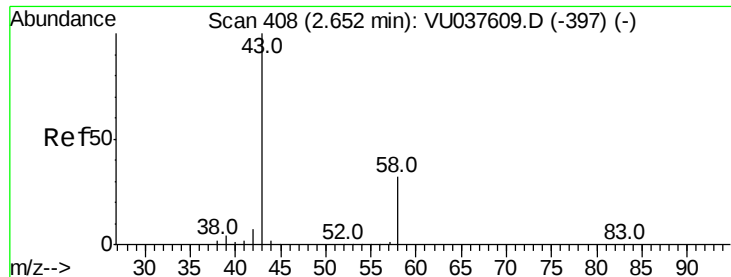
Abundance Ion 96.00 (95.70 to 96.70): VU037612.D (-300) (-)

Ion 61.00 (60.70 to 61.70): VU037612.D (-300) (-)

Ion 63.00 (62.70 to 63.70): VU037612.D (-300) (-)

Time-->





#13

Acetone

Concen: 10.920 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037612.D

Acq: 09 Apr 2020 12:04

Instrument :

MSVOA_U

ClientSampleId :

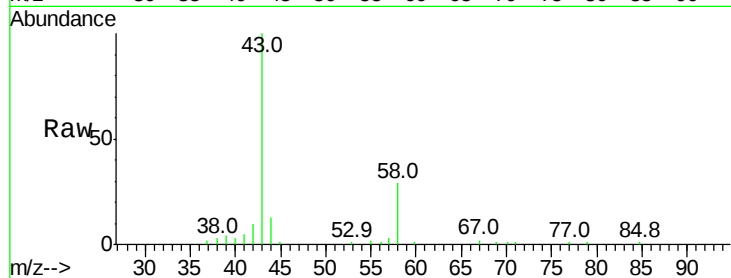
VSTD00531

Tgt Ion: 43 Resp: 22220

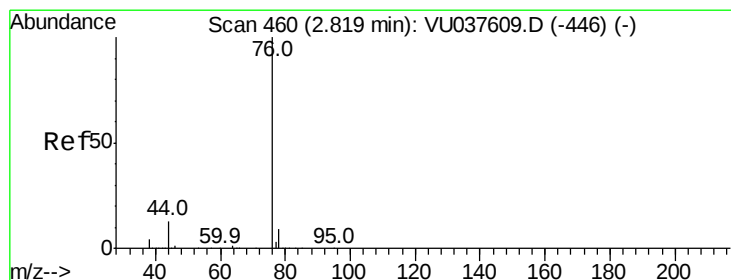
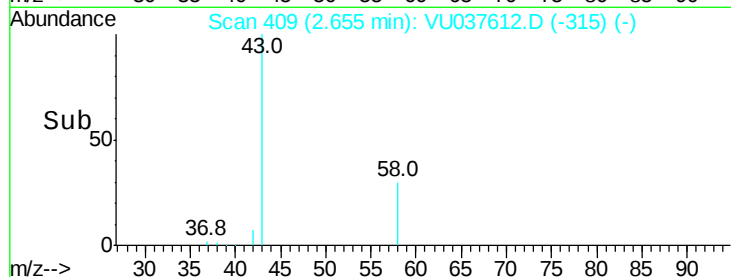
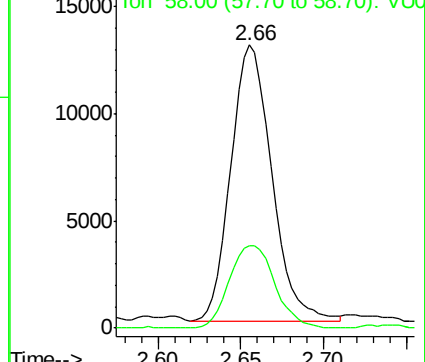
Ion Ratio Lower Upper

43 100

58 32.9 0.0 63.2



Abundance Ion 43.00 (42.70 to 43.70): VU037612.D (-315) (-)



#14

Carbon disulfide

Concen: 7.091 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037612.D

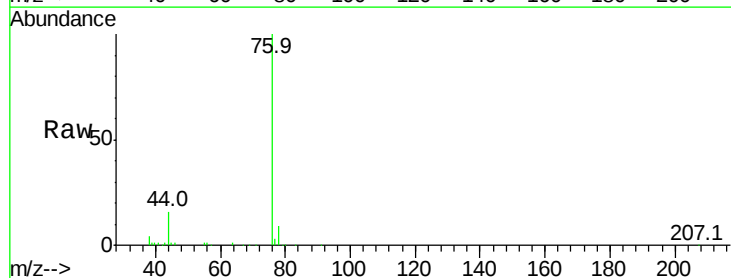
Acq: 09 Apr 2020 12:04

Tgt Ion: 76 Resp: 63189

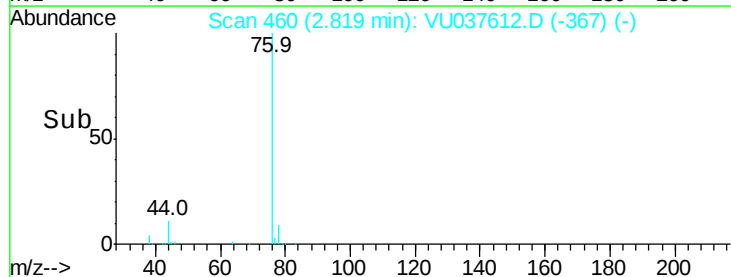
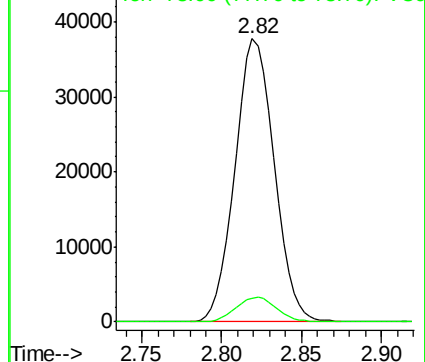
Ion Ratio Lower Upper

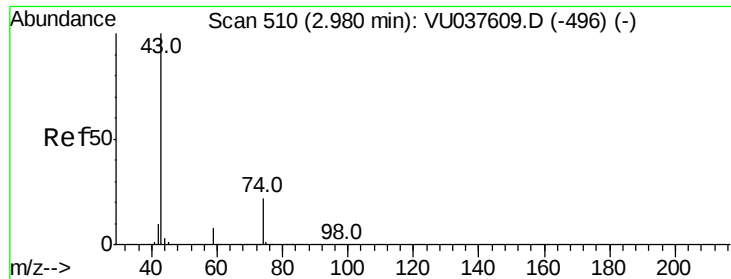
76 100

78 8.5 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VU037612.D (-367) (-)





#15

Methyl Acetate

Concen: 5.609 ug/L

RT: 2.98 min Scan# 511

Delta R.T. 0.00 min

Lab File: VU037612.D

Acq: 09 Apr 2020 12:04

Instrument :

MSVOA_U

ClientSampleId :

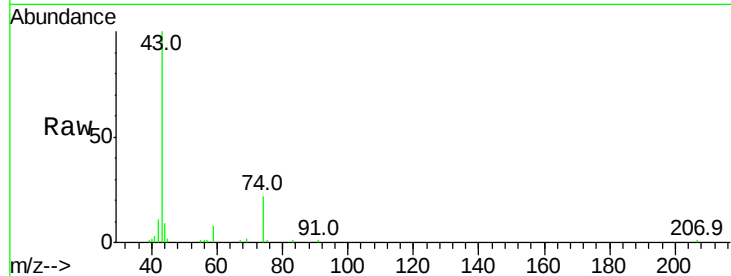
VSTD00531

Tgt Ion: 43 Resp: 25865

Ion Ratio Lower Upper

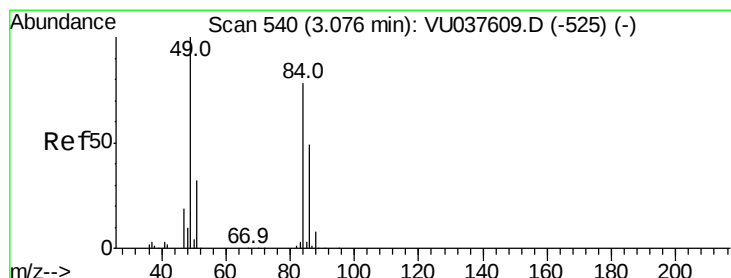
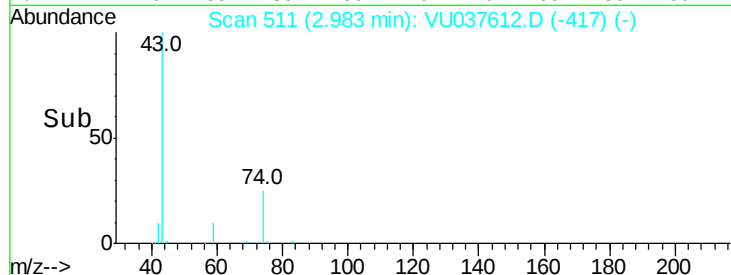
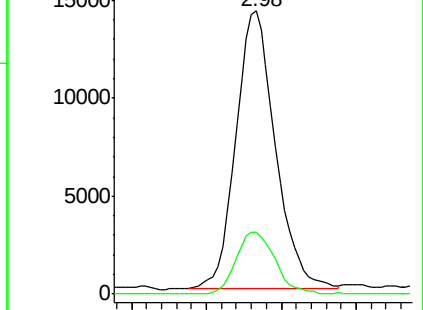
43 100

74 22.1 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VU037612.D (-417) (-)

Ion 74.00 (73.70 to 74.70): VU037612.D (-417) (-)



#16

Methylene chloride

Concen: 5.219 ug/L

RT: 3.08 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU037612.D

Acq: 09 Apr 2020 12:04

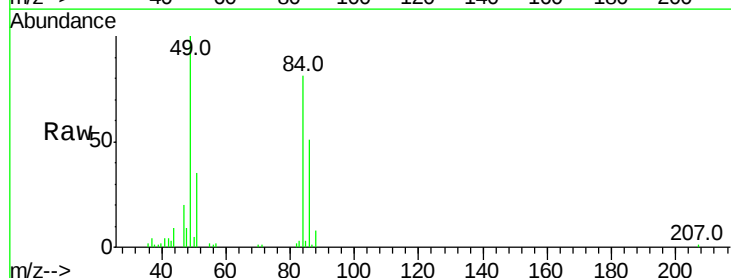
Tgt Ion: 84 Resp: 19530

Ion Ratio Lower Upper

84 100

86 62.9 44.1 81.9

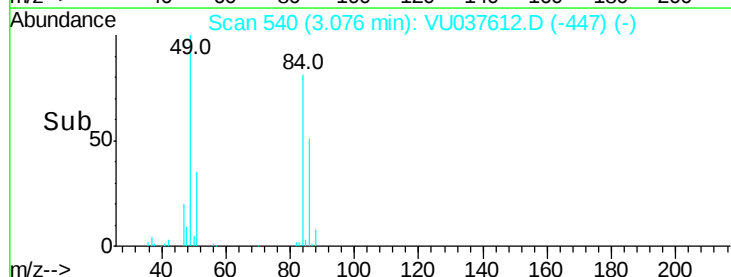
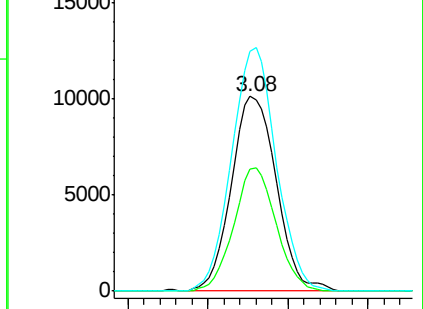
49 123.2 90.3 167.7

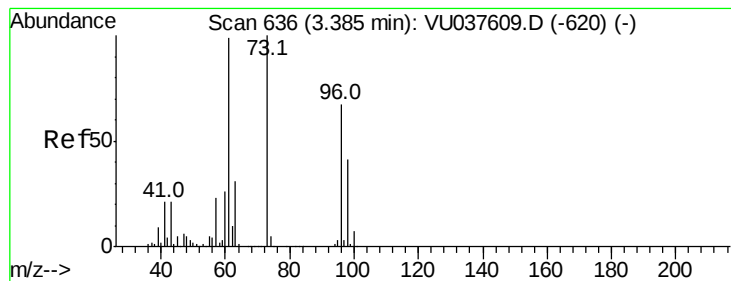


Abundance Ion 84.00 (83.70 to 84.70): VU037612.D (-447) (-)

Ion 86.00 (85.70 to 86.70): VU037612.D (-447) (-)

Ion 49.00 (48.70 to 49.70): VU037612.D (-447) (-)





#17

trans-1,2-Dichloroethene

Concen: 5.593 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU037612.D

Acq: 09 Apr 2020 12:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

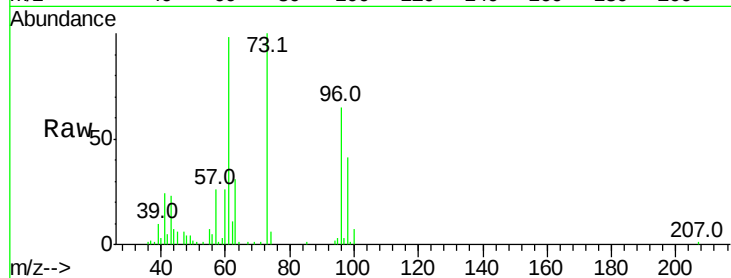
Tgt Ion: 96 Resp: 18578

Ion Ratio Lower Upper

96 100

61 149.9 103.2 191.6

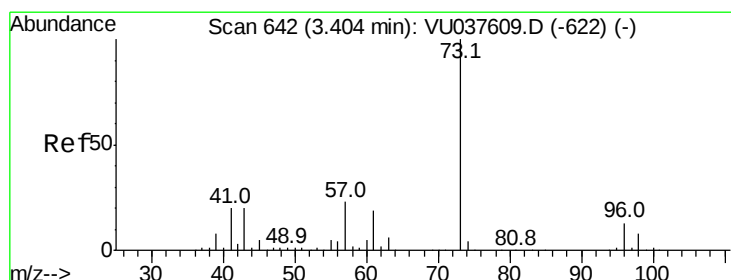
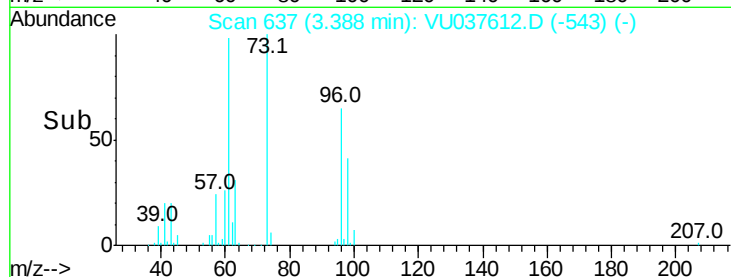
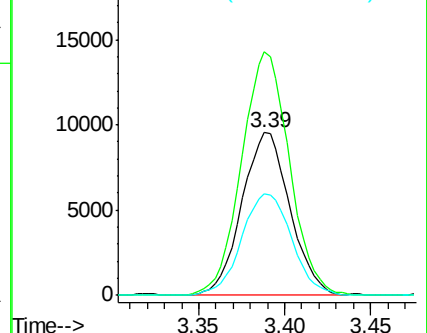
98 62.5 43.1 80.1



Abundance Ion 96.00 (95.70 to 96.70): VU037612.D (-543) (-)

Ion 61.00 (60.70 to 61.70): VU037612.D (-543) (-)

Ion 98.00 (97.70 to 98.70): VU037612.D (-543) (-)



#18

Methyl tert-butyl Ether

Concen: 5.286 ug/L

RT: 3.40 min Scan# 642

Delta R.T. 0.00 min

Lab File: VU037612.D

Acq: 09 Apr 2020 12:04

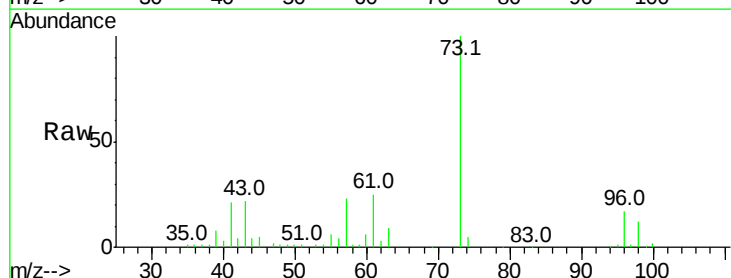
Tgt Ion: 73 Resp: 61554

Ion Ratio Lower Upper

73 100

43 20.7 16.3 24.5

57 22.5 18.3 27.5



Abundance Ion 73.00 (72.70 to 73.70): VU037612.D (-549) (-)

Ion 43.00 (42.70 to 43.70): VU037612.D (-549) (-)

Ion 57.00 (56.70 to 57.70): VU037612.D (-549) (-)

