

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072919\
 Data File : VU033475.D
 Acq On : 29 Jul 2019 18:04
 Operator : JC/SP
 Sample : MDL01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 7/30/2019 3:00:55 PM

Quant Time: Jul 30 04:32:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM072919W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 30 04:12:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	279685	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	287028	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	131422	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	129400	50.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	101.90%
7) Chloroethane-d5	1.67	69	108213	51.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.14%
11) 1,1-Dichloroethene-d2	2.25	63	175064	37.69	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.38%
21) 2-Butanone-d5	4.15	46	146908	100.95	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.95%
24) Chloroform-d	4.62	84	190371	50.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.18%
26) 1,2-Dichloroethane-d4	5.29	65	129540	52.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.66%
32) Benzene-d6	5.32	84	399744	51.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.76%
36) 1,2-Dichloropropane-d6	6.31	67	125664	52.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.14%
41) Toluene-d8	7.55	98	362261	50.01	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.02%
43) trans-1,3-Dichloropropene-	7.83	79	56059	48.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.00%
47) 2-Hexanone-d5	8.30	63	101026	101.76	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.76%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	183287	49.97	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.94%
66) 1,2-Dichlorobenzene-d4	11.85	152	139277	55.15	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	110.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	6666	2.389 ug/L	99
3) Chloromethane	1.32	50	7043	2.528 ug/L	100
5) Vinyl chloride	1.40	62	8000	2.511 ug/L #	69
6) Bromomethane	1.62	94	5084	2.283 ug/L	97
8) Chloroethane	1.69	64	5225	2.673 ug/L	93
9) Trichlorofluoromethane	1.87	101	10328	2.471 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	6268	2.985 ug/L #	83
12) 1,1-Dichloroethene	2.27	96	6489	3.171 ug/L #	1
13) Acetone	2.31	43	6147	4.262 ug/L	98
14) Carbon disulfide	2.46	76	14445	2.369 ug/L #	91
15) Methyl Acetate	2.60	43	5143	2.224 ug/L	99
16) Methylene chloride	2.68	84	5685	2.529 ug/L	95
17) trans-1,2-Dichloroethene	2.96	96	4813	2.368 ug/L	93
18) Methyl tert-butyl Ether	2.98	73	13865	2.312 ug/L	99
19) 1,1-Dichloroethane	3.42	63	9774	2.554 ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	5152	2.297 ug/L	98
22) 2-Butanone	4.26	43	7393m	4.314 ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	3012	2.528	ug/L	78
25) Chloroform	4.65	83	20958	5.165	ug/L	97
27) 1,2-Dichloroethane	5.38	62	7509	2.383	ug/L	99
29) Cyclohexane	4.97	56	6797	2.155	ug/L	97
30) 1,1,1-Trichloroethane	4.89	97	8554	2.503	ug/L	95
31) Carbon tetrachloride	5.11	117	6906	2.270	ug/L	100
33) Benzene	5.37	78	21107	2.460	ug/L	100
34) Trichloroethene	6.17	95	5748	2.572	ug/L	93
35) Methylcyclohexane	6.39	83	7443	2.190	ug/L	99
37) 1,2-Dichloropropane	6.41	63	5809	2.518	ug/L #	94
38) Bromodichloromethane	6.74	83	7044	2.319	ug/L	100
39) cis-1,3-Dichloropropene	7.25	75	7366	2.141	ug/L	93
40) 4-Methyl-2-pentanone	7.45	43	12155	3.997	ug/L	97
42) Toluene	7.62	91	22071	2.391	ug/L	93
44) trans-1,3-Dichloropropene	7.86	75	6827m	2.186	ug/L	
45) 1,1,2-Trichloroethane	8.05	97	4893	2.223	ug/L	92
46) Tetrachloroethene	8.21	164	3972	2.184	ug/L	90
48) 2-Hexanone	8.35	43	12183	4.918	ug/L #	93
49) Dibromochloromethane	8.46	129	5661	2.297	ug/L	89
50) 1,2-Dibromoethane	8.57	107	5403	2.263	ug/L	92
51) Chlorobenzene	9.10	112	14230	2.320	ug/L	90
52) Ethylbenzene	9.23	91	21406	2.139	ug/L	97
53) m,p-Xylene	9.36	106	7325	1.946	ug/L	98
54) o-xylene	9.77	106	7611	2.063	ug/L	86
55) Styrene	9.78	104	10844	1.732	ug/L	93
57) 1,1,2,2-Tetrachloroethane	10.44	83	9260	2.367	ug/L #	93
59) Bromoform	9.95	173	4159	2.530	ug/L #	97
60) 1,2,3-Trichloropropane	10.48	75	7046	2.632	ug/L	98
61) Isopropylbenzene	10.15	105	18703	2.222	ug/L	96
62) 1,3,5-Trimethylbenzene	10.76	105	12973	1.902	ug/L	94
63) 1,2,4-Trimethylbenzene	11.13	105	12133	1.794	ug/L	96
64) 1,3-Dichlorobenzene	11.40	146	9988	2.328	ug/L	92
65) 1,4-Dichlorobenzene	11.49	146	10953	2.471	ug/L	98
67) 1,2-Dichlorobenzene	11.86	146	11411	2.654	ug/L	97
68) 1,2-Dibromo-3-chloropropan	12.65	75	1679	2.256	ug/L #	77
69) 1,3,5-Trichlorobenzene	12.88	180	7015	2.153	ug/L	95
70) 1,2,4-trichlorobenzene	13.50	180	4223	1.553	ug/L	93
71) Naphthalene	13.74	128	10529m	1.339	ug/L	
72) 1,2,3-Trichlorobenzene	13.98	180	4666	1.638	ug/L	98

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

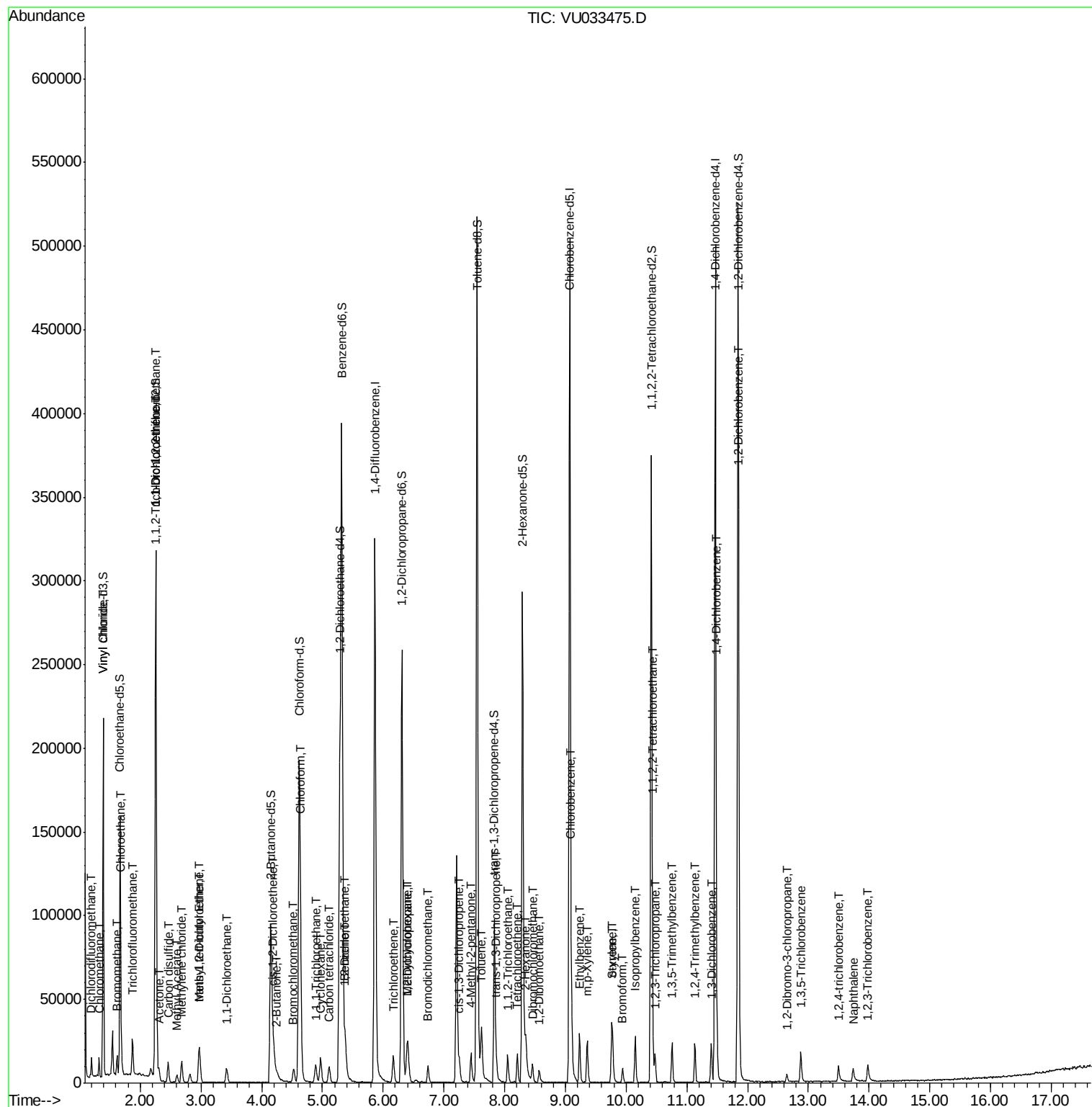
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU072919\
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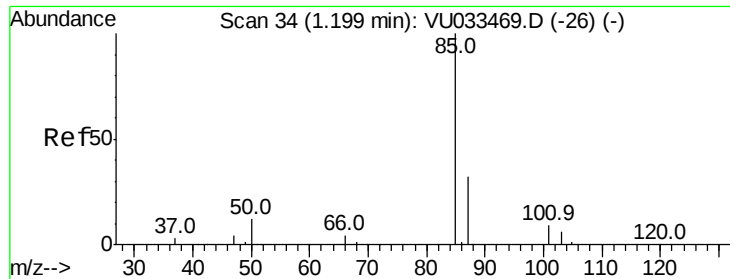
Instrument :
MSVOA_U
ClientSampleId :
MDL01

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.389 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 85 Resp: 6666

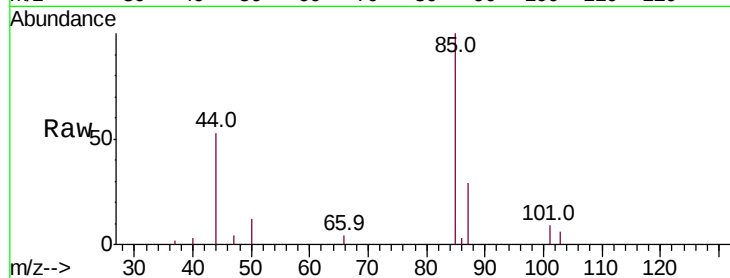
Ion Ratio Lower Upper

85 100

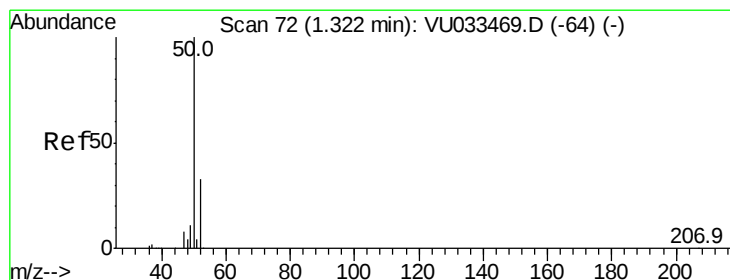
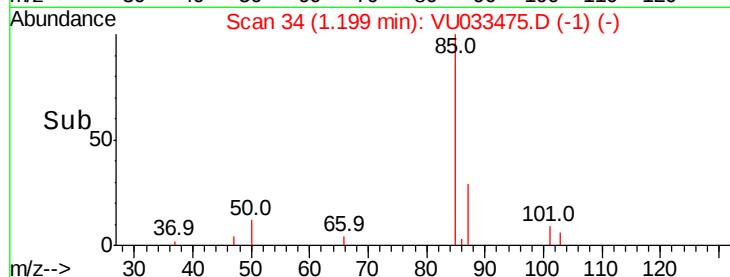
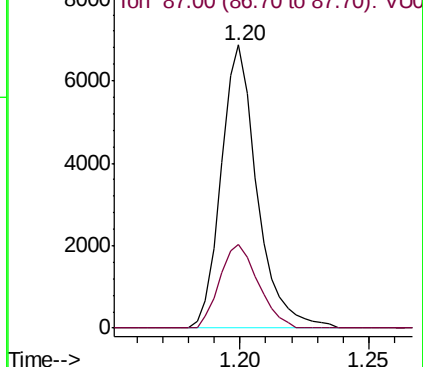
87 31.6 25.7 38.5

Manual Integrations
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Abundance Ion 85.00 (84.70 to 85.70): VU033475.D (-1) (-)



#3

Chloromethane

Concen: 2.528 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033475.D

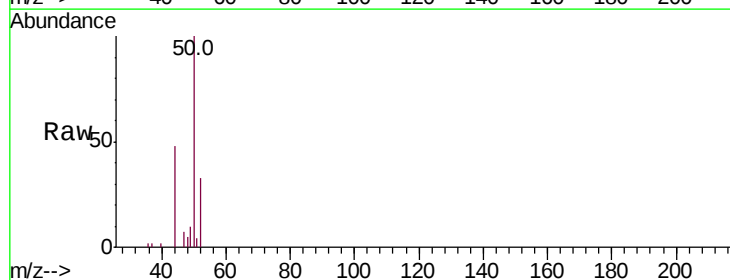
Acq: 29 Jul 2019 18:04

Tgt Ion: 50 Resp: 7043

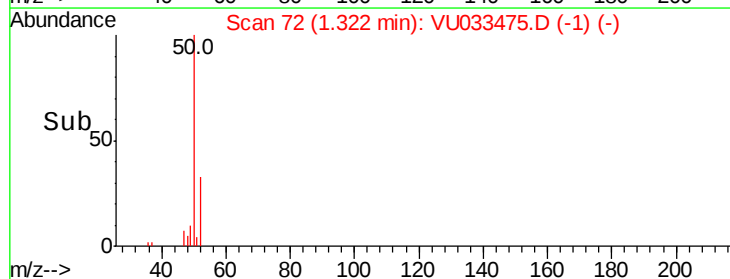
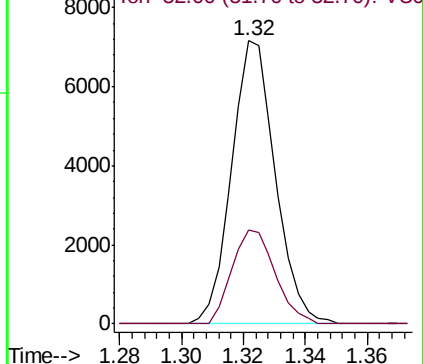
Ion Ratio Lower Upper

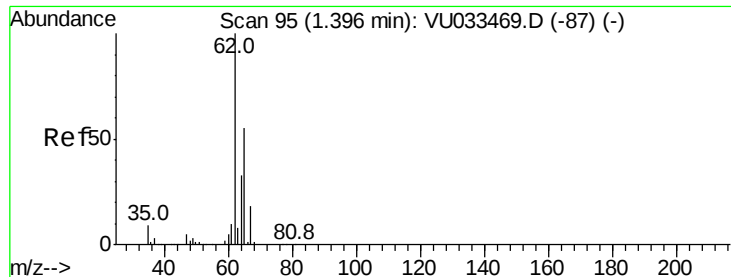
50 100

52 33.2 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033475.D (-1) (-)





#5

Vinyl chloride

Concen: 2.511 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 62 Resp: 8000

Ion Ratio Lower Upper

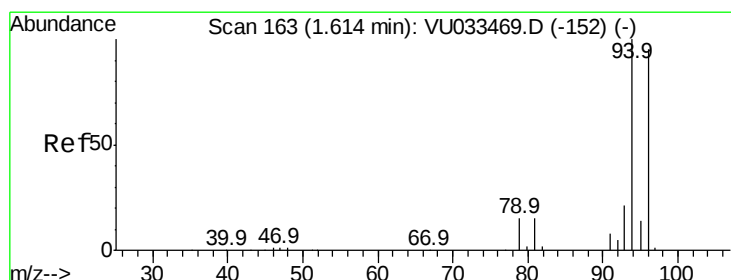
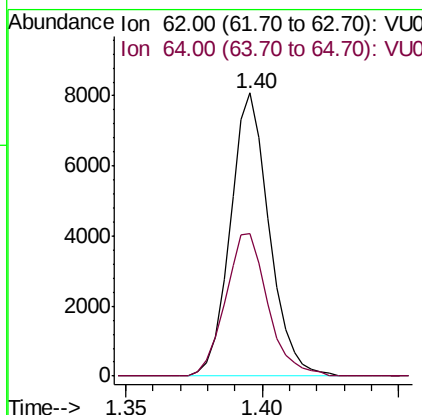
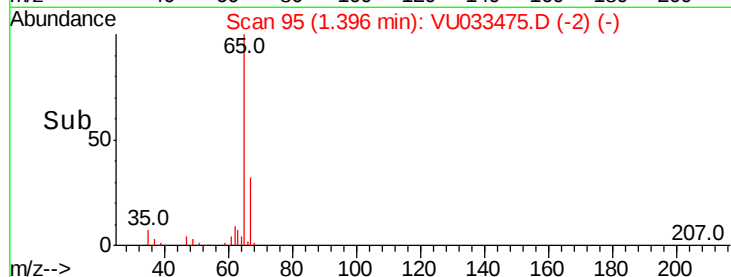
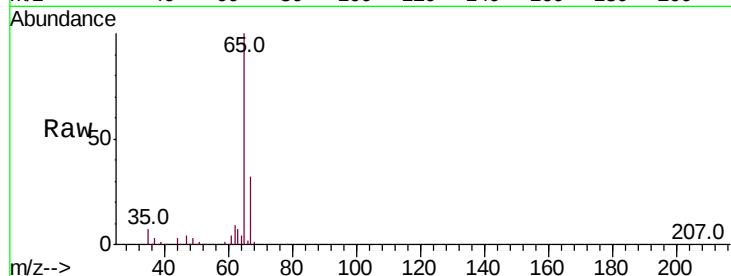
62 100

64 50.3 23.0 42.6#

Manual Integrations
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7/30/2019 3:00:55 PM



#6

Bromomethane

Concen: 2.283 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU033475.D

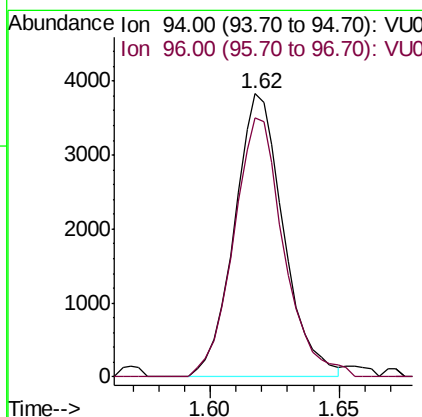
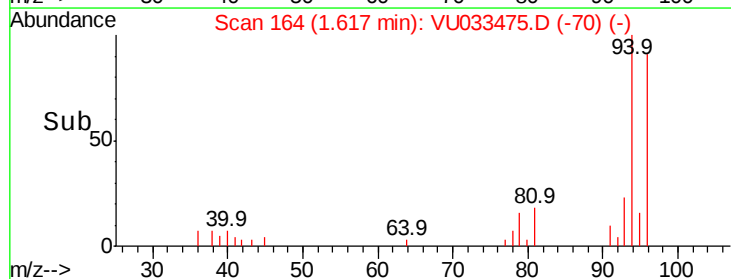
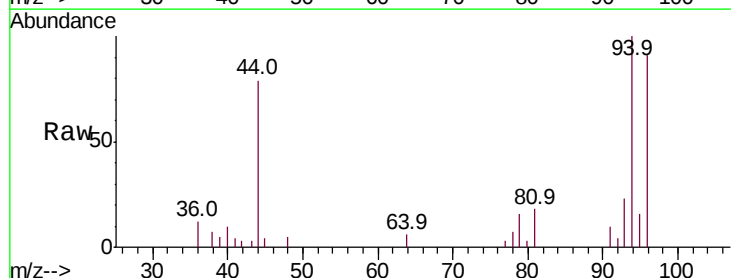
Acq: 29 Jul 2019 18:04

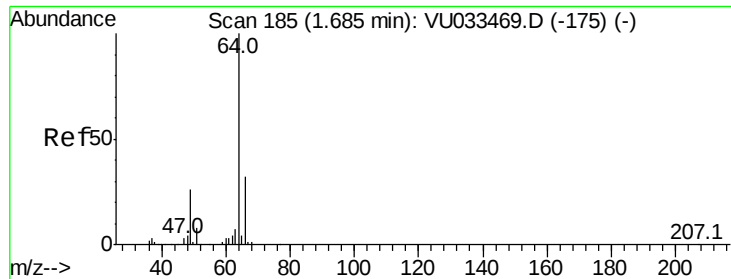
Tgt Ion: 94 Resp: 5084

Ion Ratio Lower Upper

94 100

96 91.3 66.2 123.0





#8

Chloroethane

Concen: 2.673 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 64 Resp: 5225

Ion Ratio Lower Upper

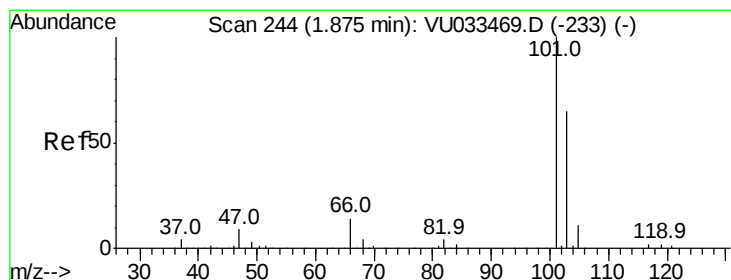
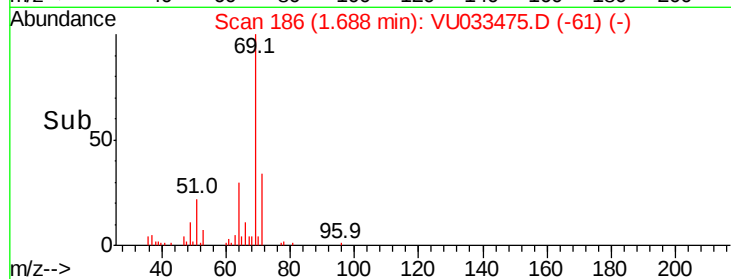
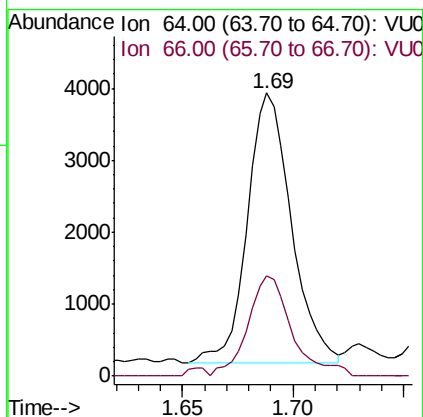
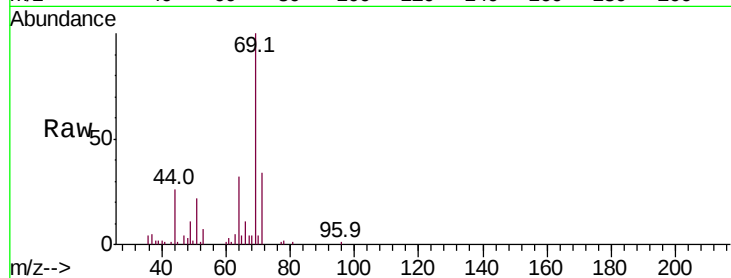
64 100

66 35.3 22.1 41.1

Manual Integrations
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7/30/2019 3:00:55 PM



#9

Trichlorofluoromethane

Concen: 2.471 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033475.D

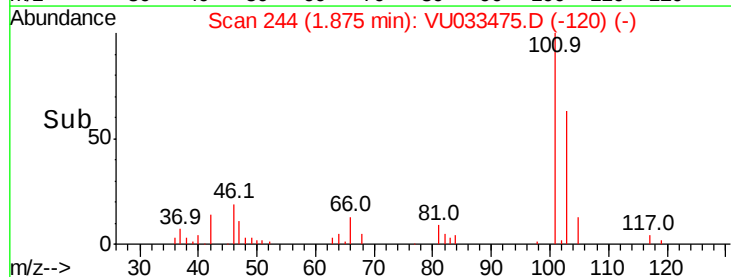
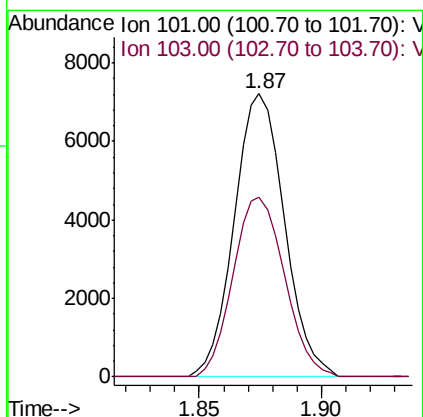
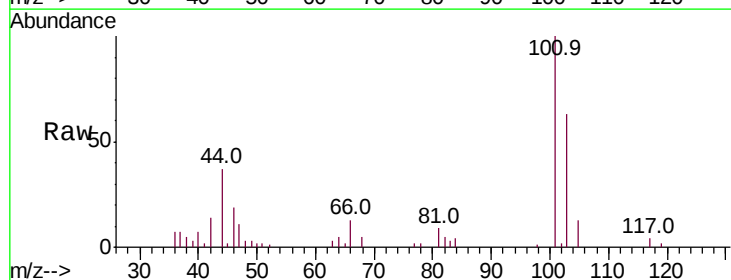
Acq: 29 Jul 2019 18:04

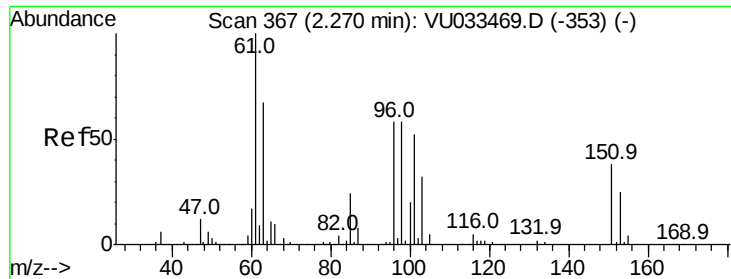
Tgt Ion: 101 Resp: 10328

Ion Ratio Lower Upper

101 100

103 64.9 51.2 76.8





#10

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

Concen: 2.985 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Instrument :

MSVOA_U

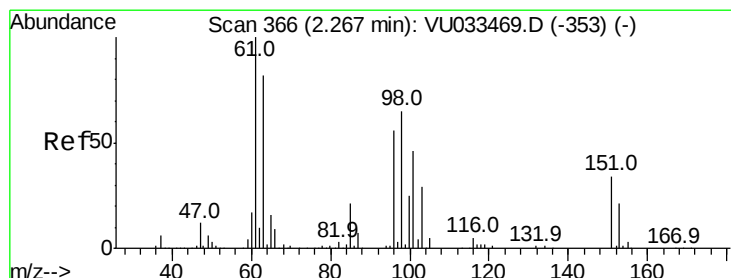
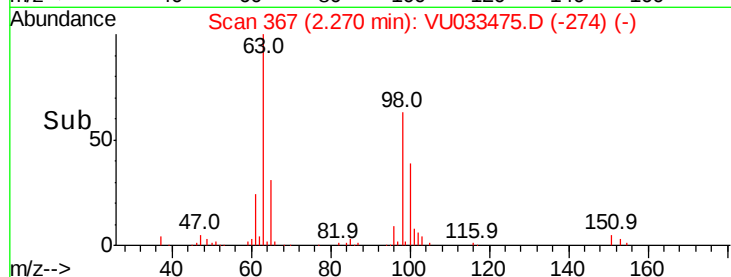
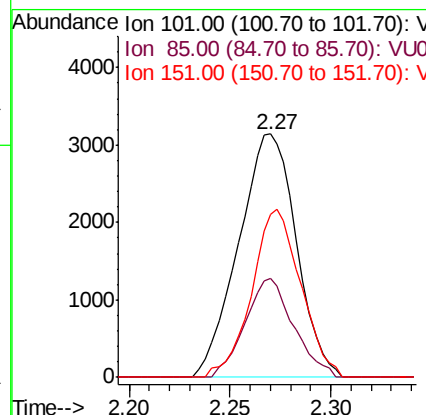
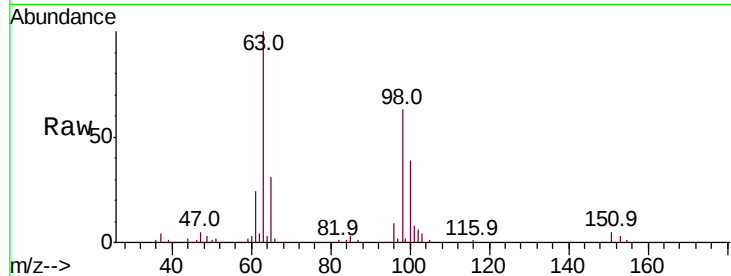
ClientSampled :

MDL01

Tot Ion:	101	Resp:	6268
Ion Ratio	Lower	Upper	
101	100		
85	34.2	35.8	53.8#
151	58.5	58.6	87.8#

Manual Integrations
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7/30/2019 3:00:55 PM



#12

1,1-Dichloroethene

Concen: 3.171 ug/L

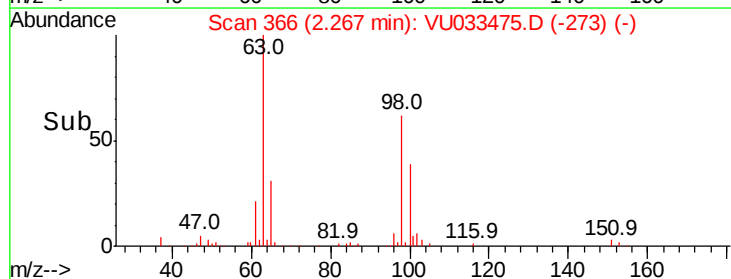
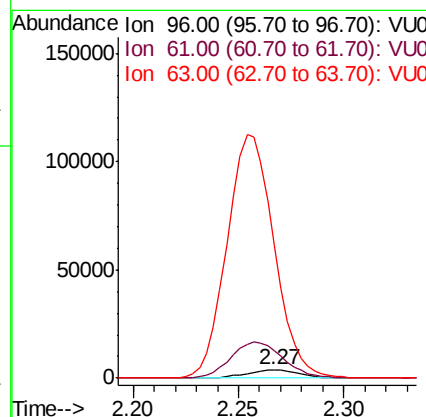
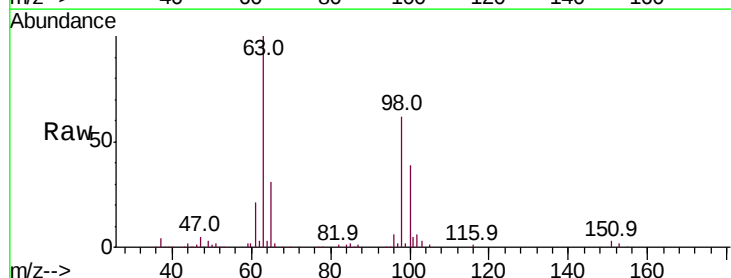
RT: 2.27 min Scan# 366

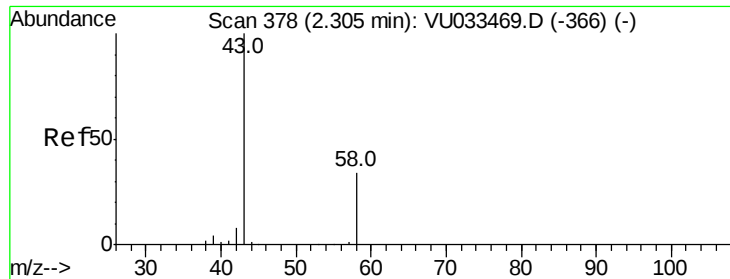
Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Tgt Ion:	96	Resp:	6489
Ion Ratio	Lower	Upper	
96	100		
61	329.3	124.1	230.5#
63	1558.2	101.8	189.2#





#13

Acetone

Concen: 4.262 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 43 Resp: 6147

Ion Ratio Lower Upper

43 100

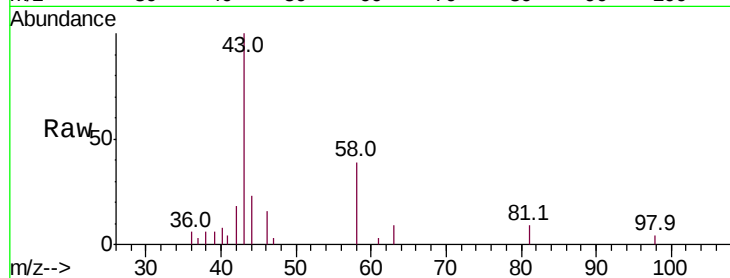
58 35.0 0.0 67.4

Manual Integrations

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7/30/2019 3:00:55 PM

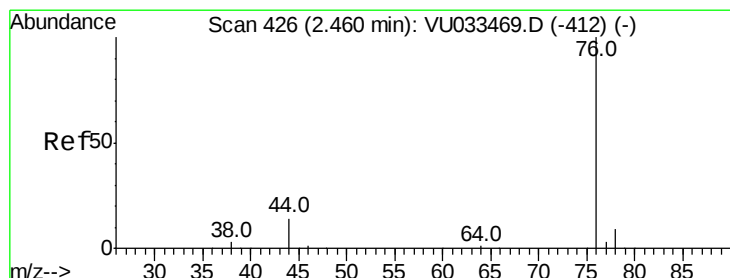
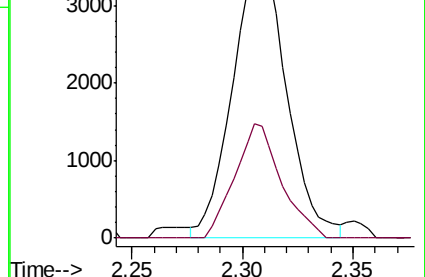
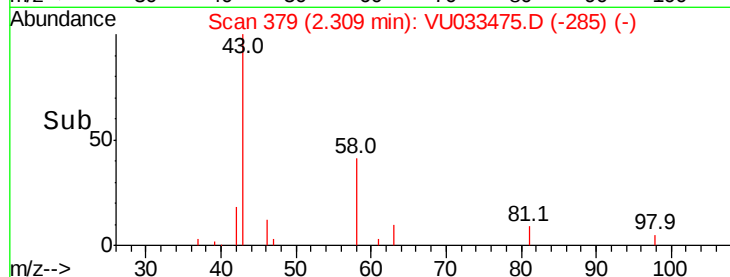


Abundance Ion 43.00 (42.70 to 43.70): VU033469.D (-366) (-)

Ion 58.00 (57.70 to 58.70): VU033469.D (-366) (-)

2.31

Time-->



#14

Carbon disulfide

Concen: 2.369 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VU033475.D

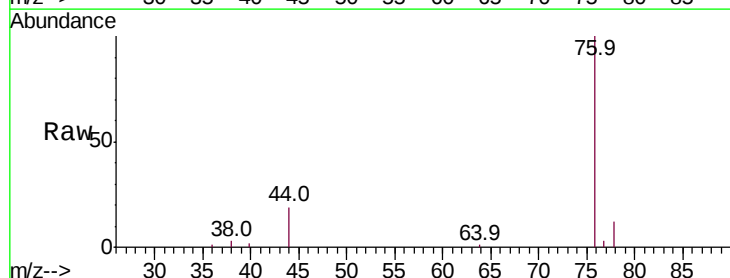
Acq: 29 Jul 2019 18:04

Tgt Ion: 76 Resp: 14445

Ion Ratio Lower Upper

76 100

78 12.4 7.2 10.8#

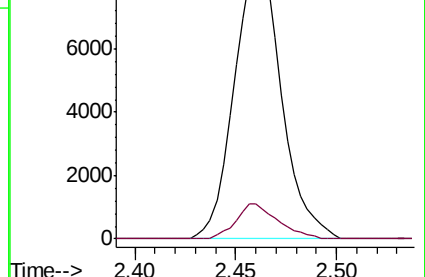
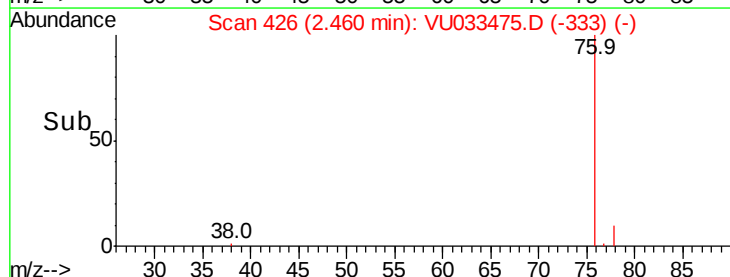


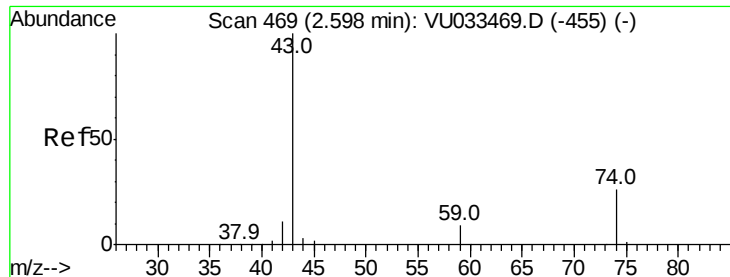
Abundance Ion 76.00 (75.70 to 76.70): VU033469.D (-412) (-)

Ion 78.00 (77.70 to 78.70): VU033469.D (-412) (-)

2.46

Time-->





#15

Methyl Acetate

Concen: 2.224 ug/L

RT: 2.60 min Scan# 471

Delta R.T. 0.01 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Tot Ion: 43 Resp: 5143

Ion Ratio Lower Upper

43 100

74 25.2 20.5 30.7

Instrument :

MSVOA_U

ClientSampled :

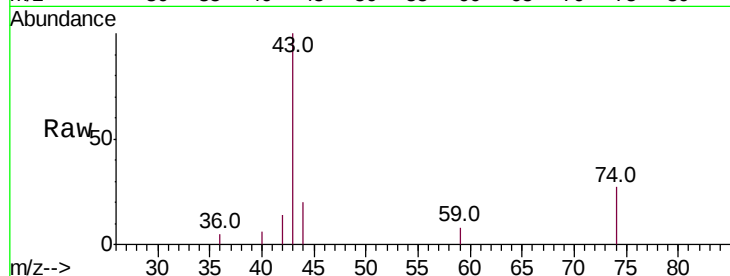
MDL01

Manual Integrations

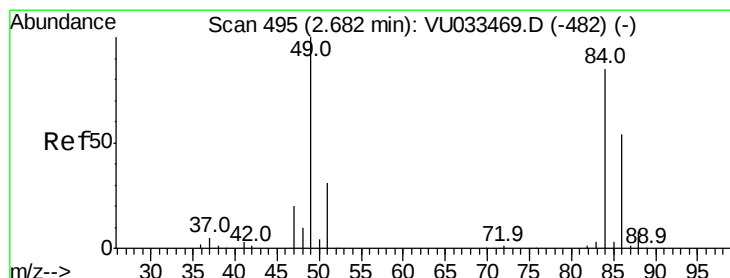
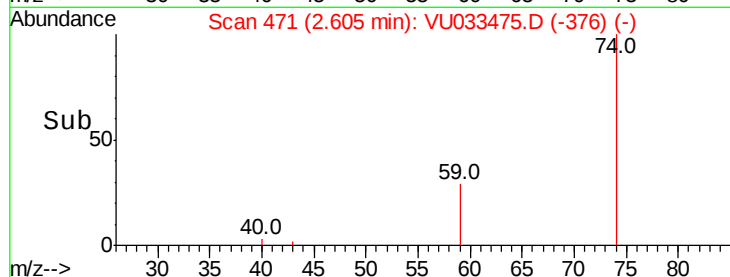
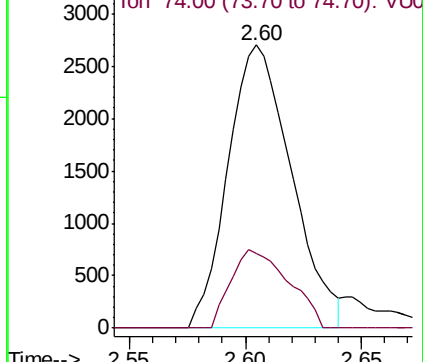
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7/30/2019 3:00:55 PM



Abundance Ion 43.00 (42.70 to 43.70): VU033469.D (-455) (-)



#16

Methylene chloride

Concen: 2.529 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

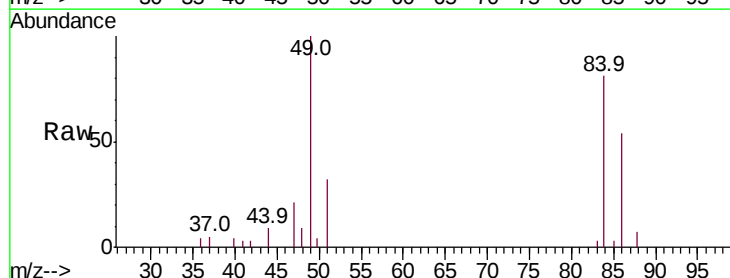
Tgt Ion: 84 Resp: 5685

Ion Ratio Lower Upper

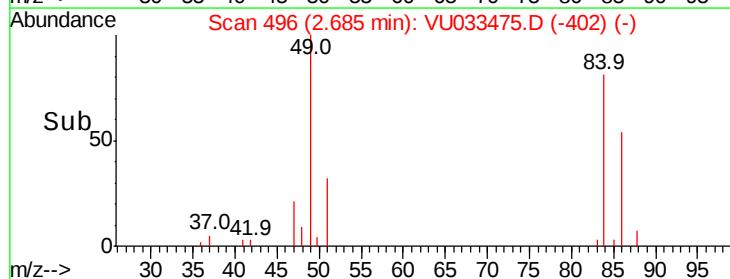
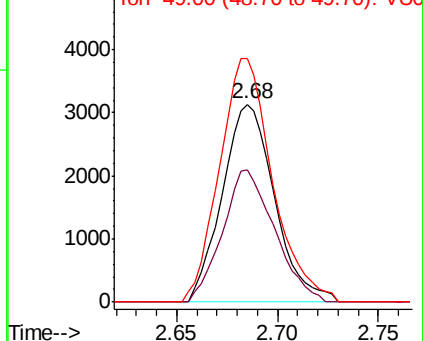
84 100

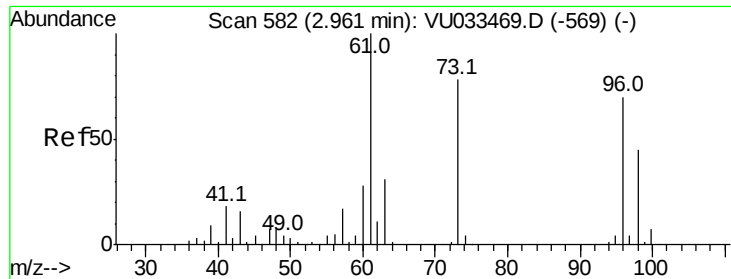
86 67.0 44.2 82.0

49 123.2 82.3 152.8



Abundance Ion 84.00 (83.70 to 84.70): VU033469.D (-482) (-)





#17

trans-1,2-Dichloroethene

Concen: 2.368 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Instrument :

MSVOA_U

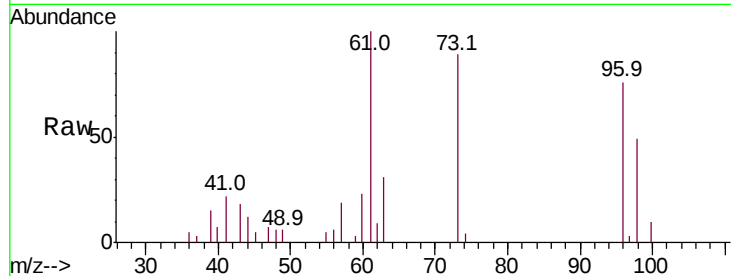
ClientSampled :

MDL01

Tot Ion:	96	Resp:	4813
Ion	Ratio	Lower	Upper
96	100		
61	131.8	100.3	186.3
98	64.8	45.1	83.9

Manual Integrations
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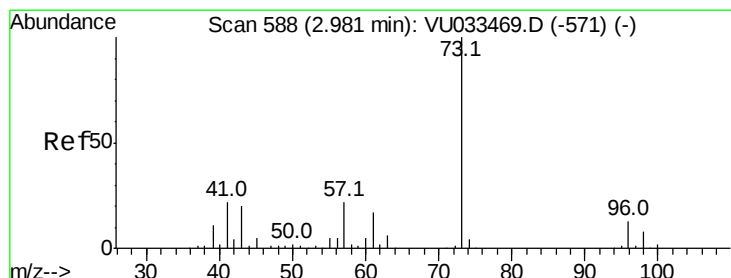
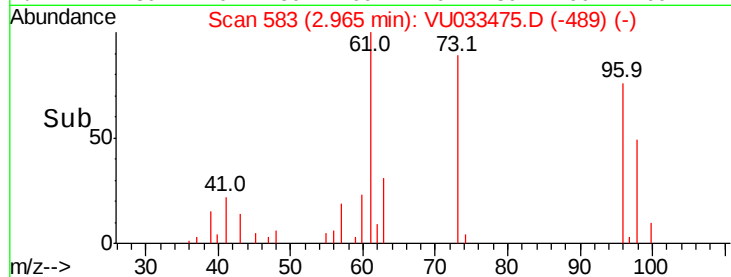
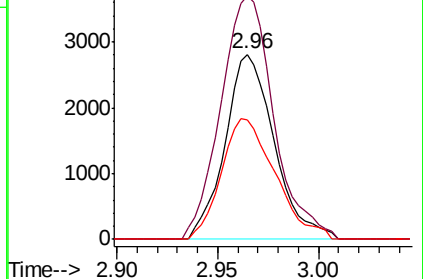
MMDadoda
7/30/2019 3:00:55 PM



Abundance Ion 96.00 (95.70 to 96.70): VU033469.D (-569) (-)

Ion 61.00 (60.70 to 61.70): VU033469.D (-569) (-)

Ion 98.00 (97.70 to 98.70): VU033469.D (-569) (-)



#18

Methyl tert-butyl Ether

Concen: 2.312 ug/L

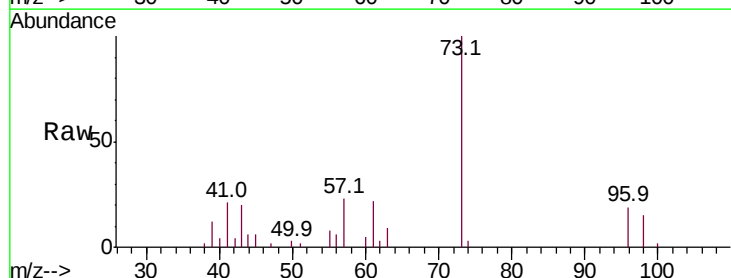
RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

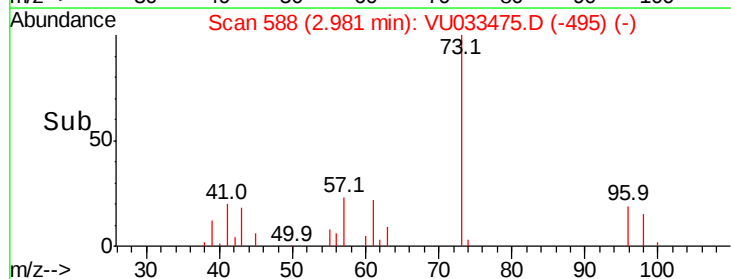
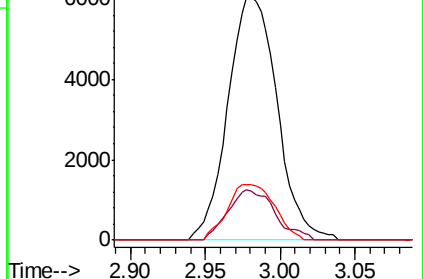
Tgt Ion:	73	Resp:	13865
Ion	Ratio	Lower	Upper
73	100		
43	19.9	15.3	22.9
57	22.0	17.7	26.5

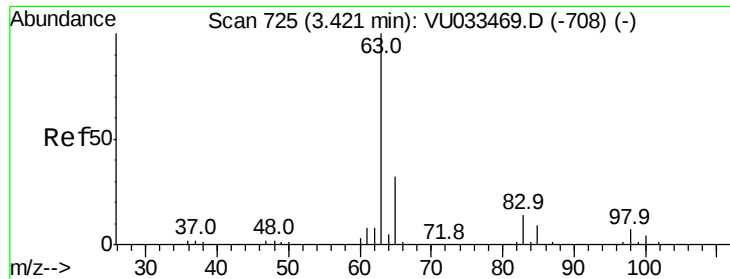


Abundance Ion 73.00 (72.70 to 73.70): VU033469.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033469.D (-571) (-)

Ion 57.00 (56.70 to 57.70): VU033469.D (-571) (-)





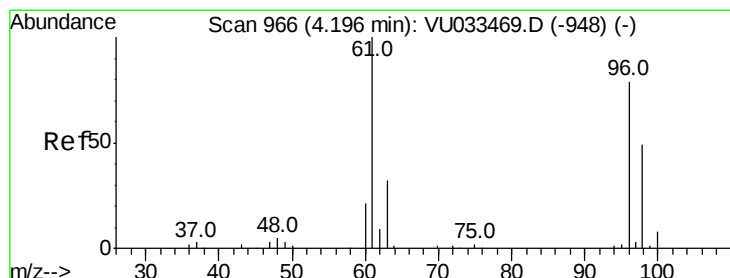
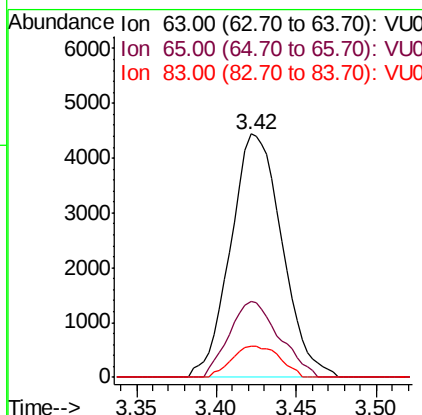
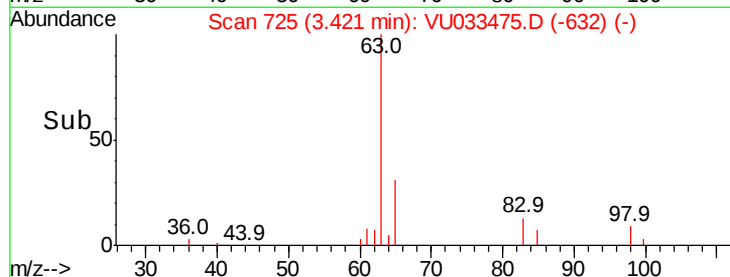
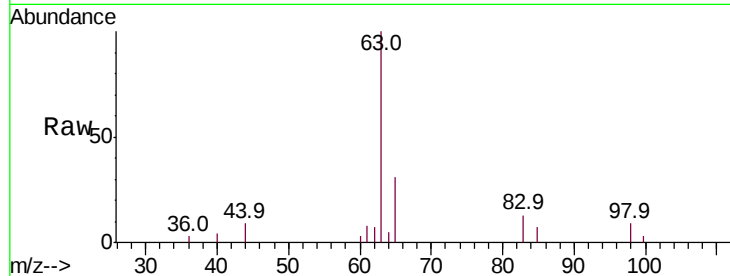
#19
 1,1-Dichloroethane
 Concen: 2.554 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. 0.00 min
 Lab File: VU033475.D
 Acq: 29 Jul 2019 18:04

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion:	63	Resp:	9774
Ion	Ratio	Lower	Upper
63	100		
65	31.3	22.7	42.1
83	12.9	9.4	17.6

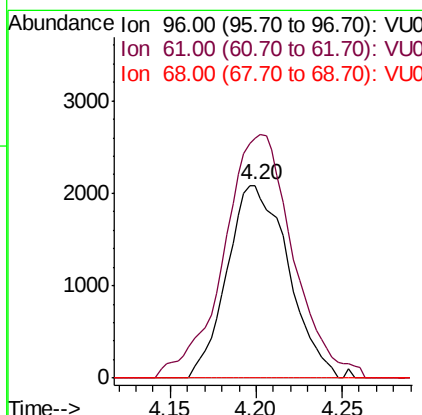
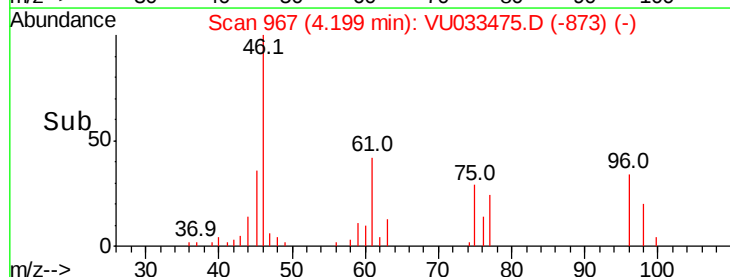
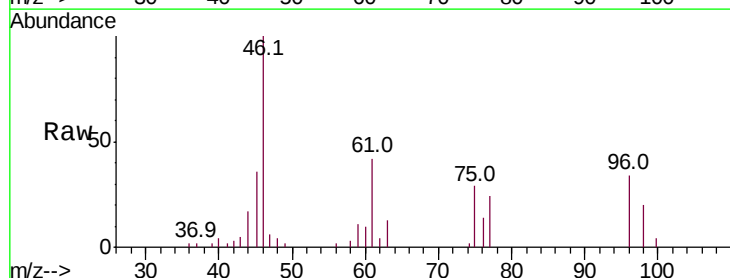
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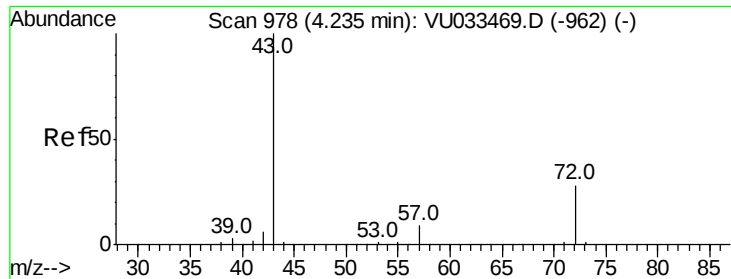
MMDadoda
 7/30/2019 3:00:55 PM



#20
 cis-1,2-Dichloroethene
 Concen: 2.297 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033475.D
 Acq: 29 Jul 2019 18:04

Tgt Ion:	96	Resp:	5152
Ion	Ratio	Lower	Upper
96	100		
61	124.5	88.9	165.1
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.314 ug/L m

RT: 4.26 min Scan# 986

Delta R.T. 0.03 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 43 Resp: 7393

Ion Ratio Lower Upper

43 100

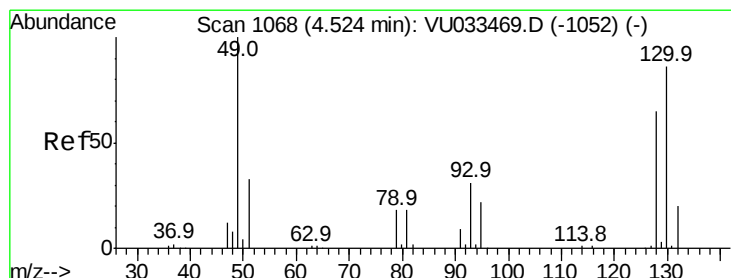
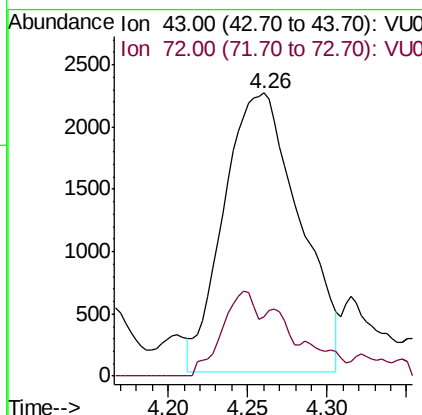
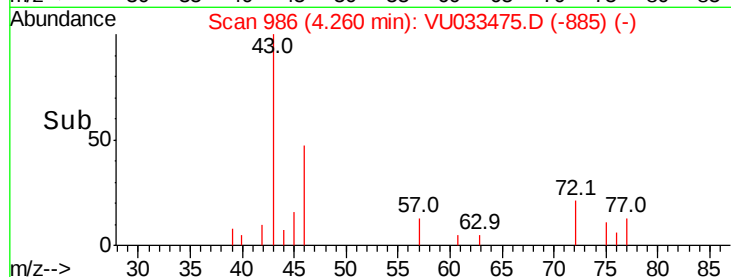
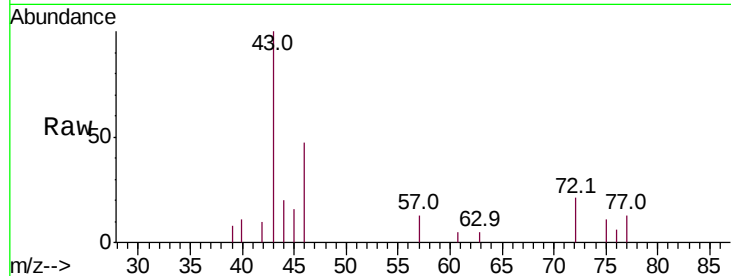
72 1.8 14.1 42.3#

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7/30/2019 3:00:55 PM



#23

Bromochloromethane

Concen: 2.528 ug/L

RT: 4.53 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Tgt Ion: 128 Resp: 3012

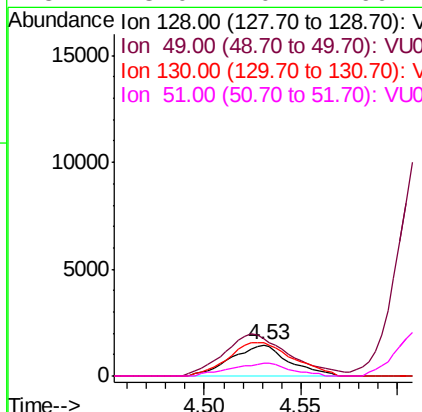
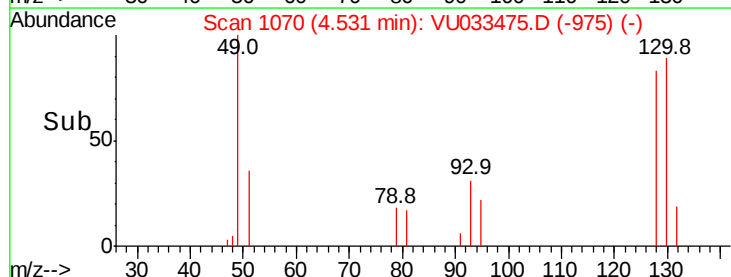
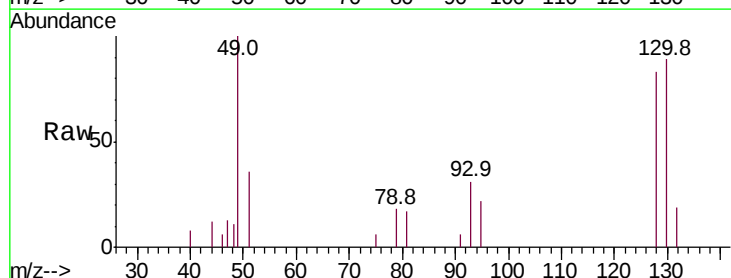
Ion Ratio Lower Upper

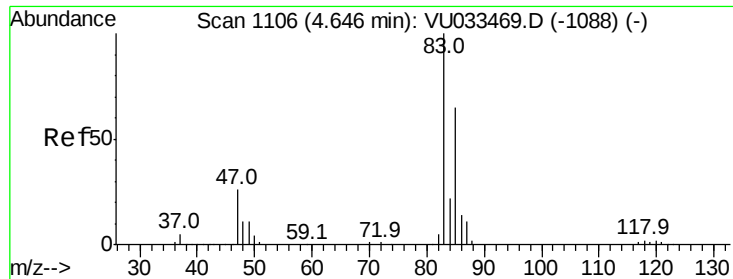
128 100

49 120.0 108.0 200.6

130 107.1 92.9 172.5

51 43.0 40.2 60.4





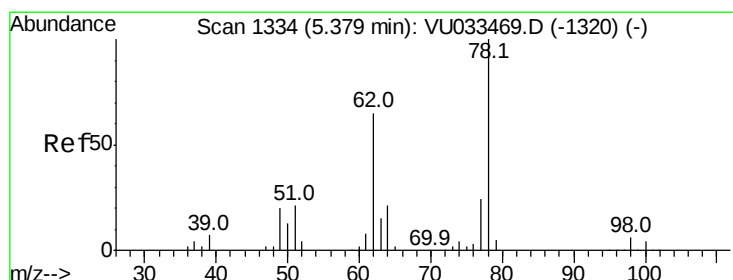
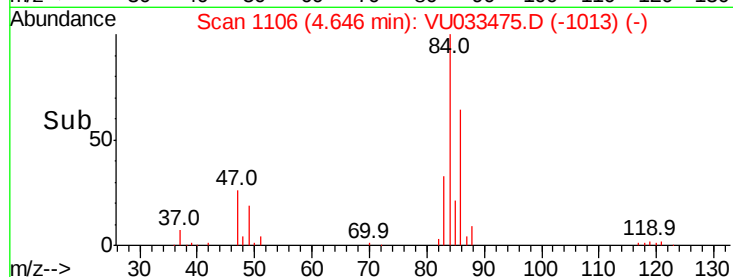
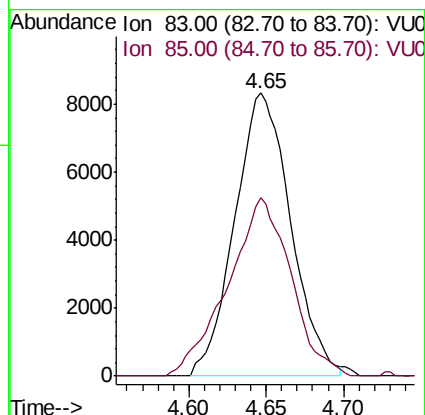
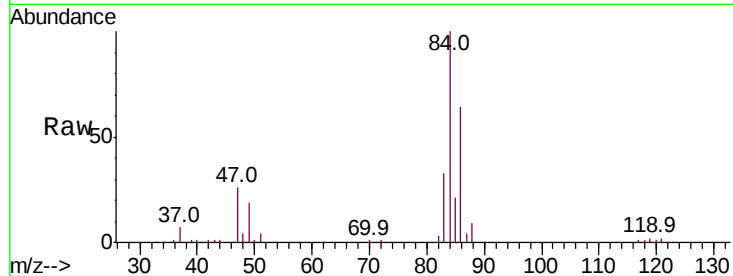
#25
Chloroform
Concen: 5.165 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion: 83 Resp: 20958
Ion Ratio Lower Upper
83 100
85 63.0 45.6 84.8

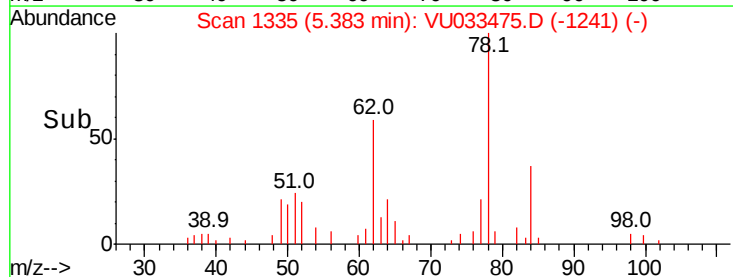
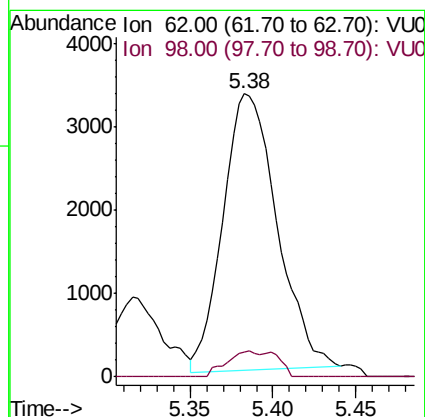
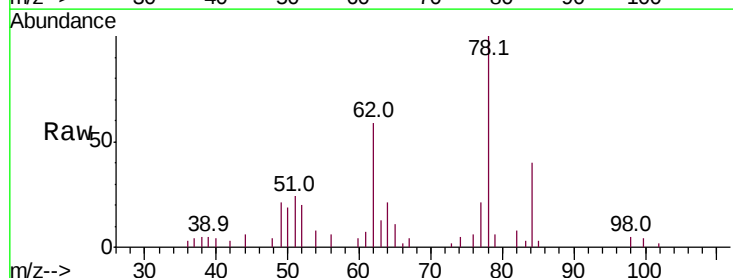
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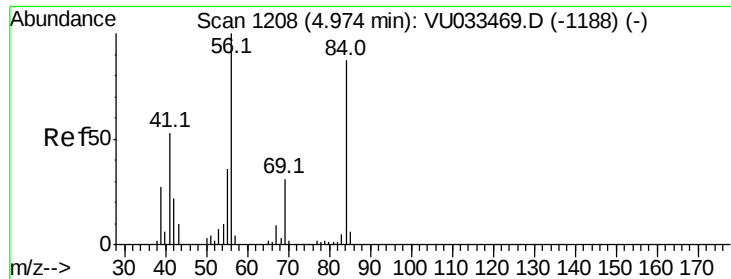
MMDadoda
7/30/2019 3:00:55 PM



#27
1,2-Dichloroethane
Concen: 2.383 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Tgt Ion: 62 Resp: 7509
Ion Ratio Lower Upper
62 100
98 8.9 6.7 10.1





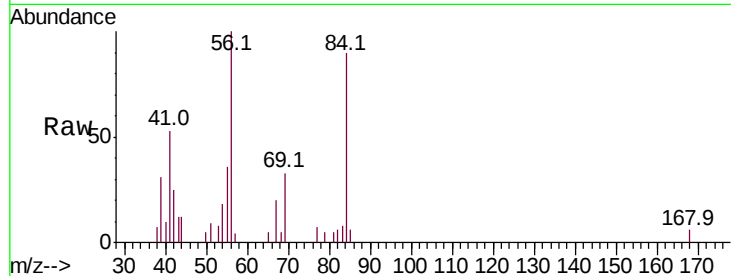
#29
Cyclohexane
Concen: 2.155 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Instrument :
MSVOA_U
ClientSampleId :
MDL01

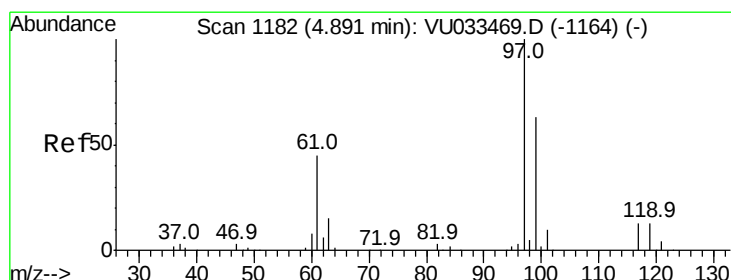
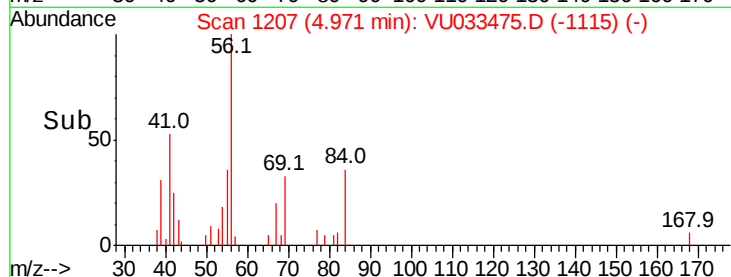
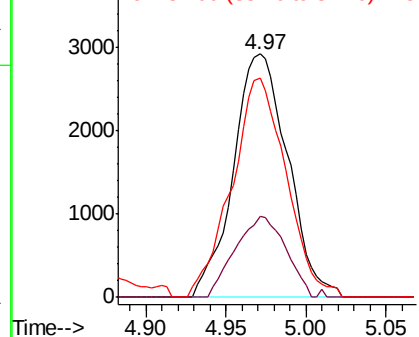
Tot Ion	Ratio	Lower	Upper
56	100		
69	30.7	25.3	37.9
84	90.3	69.6	104.4

Manual Integrations
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7/30/2019 3:00:55 PM

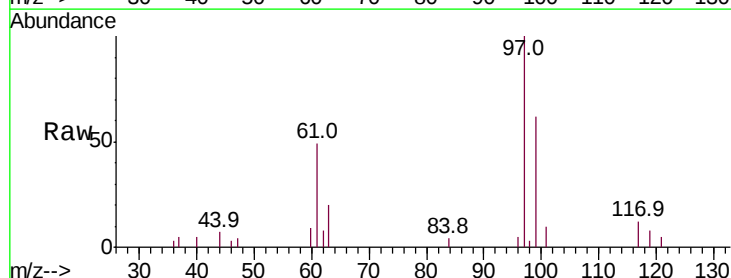


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

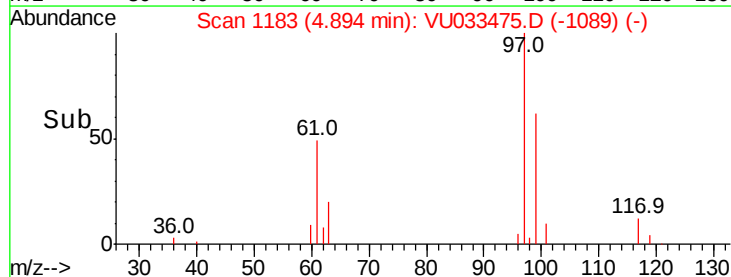
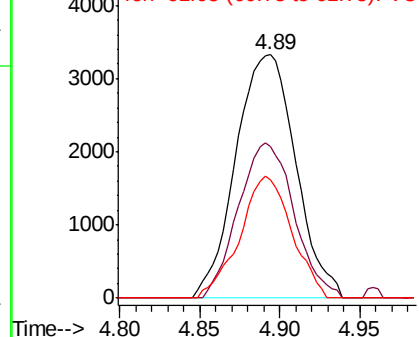


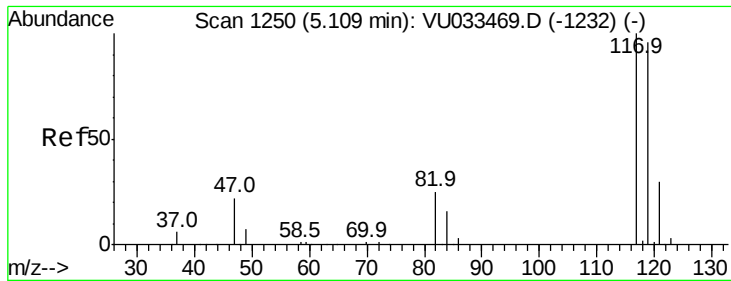
#30
1,1,1-Trichloroethane
Concen: 2.503 ug/L
RT: 4.89 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Tgt Ion	Ratio	Lower	Upper
97	100		
99	59.2	51.8	77.6
61	43.2	36.2	54.2



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

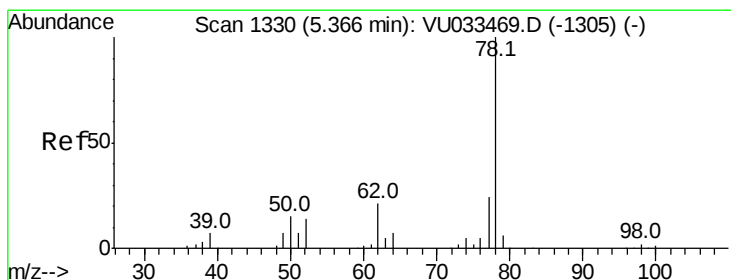
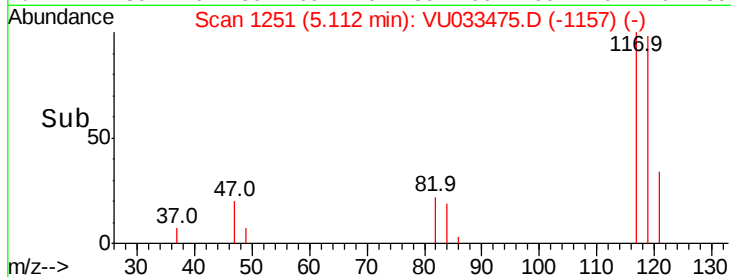
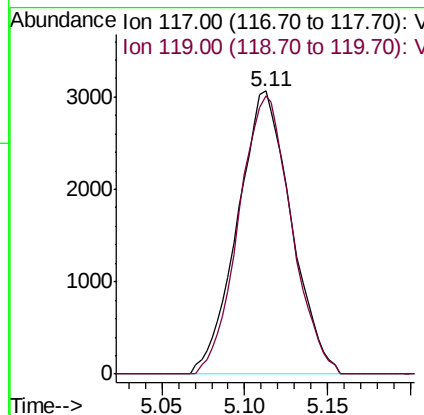
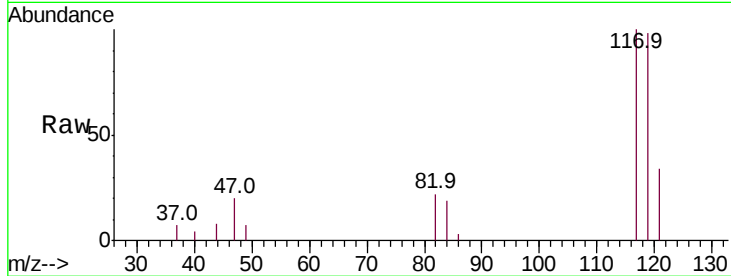
Carbon tetrachloride
Concen: 2.270 ug/L
RT: 5.11 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion:117 Resp: 6906
Ion Ratio Lower Upper
117 100
119 96.4 76.8 115.2

Manual Integrations
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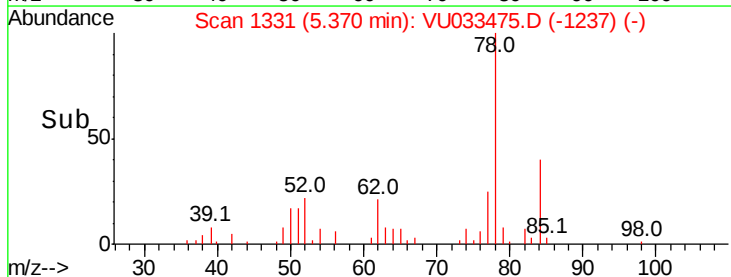
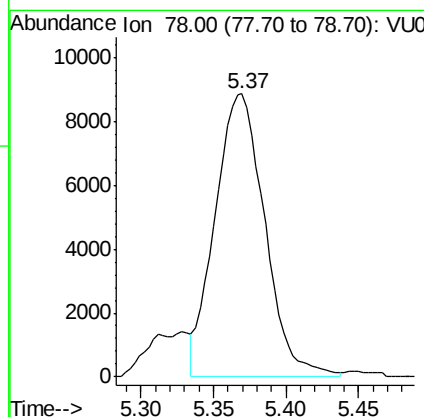
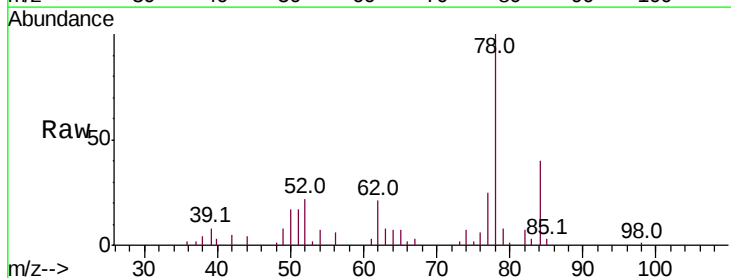
MMDadoda
7/30/2019 3:00:55 PM

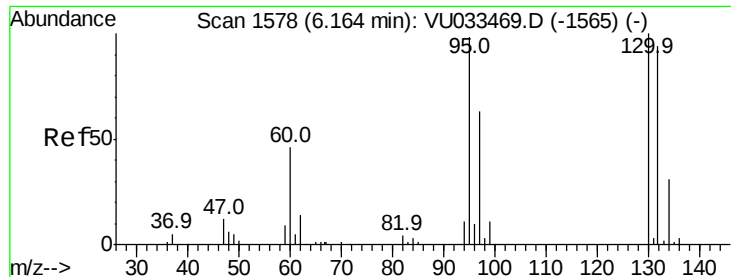


#33

Benzene
Concen: 2.460 ug/L
RT: 5.37 min Scan# 1331
Delta R.T. 0.00 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Tgt Ion: 78 Resp: 21107





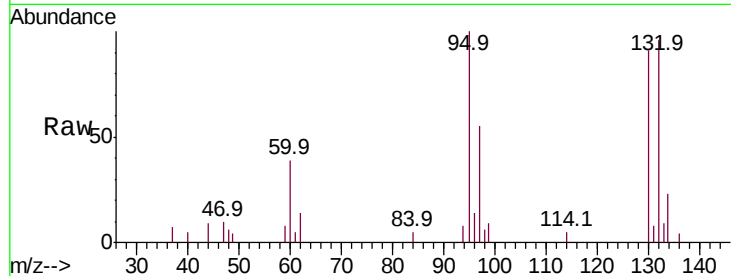
#34
 Trichloroethene
 Concen: 2.572 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU033475.D
 Acq: 29 Jul 2019 18:04

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

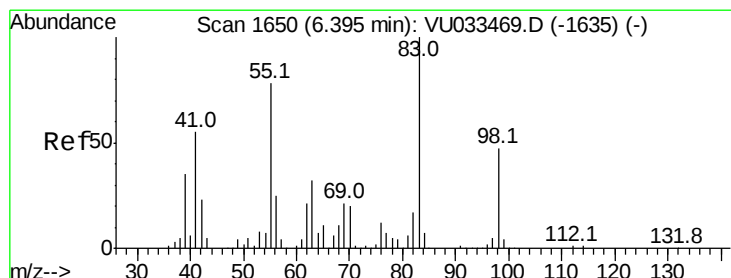
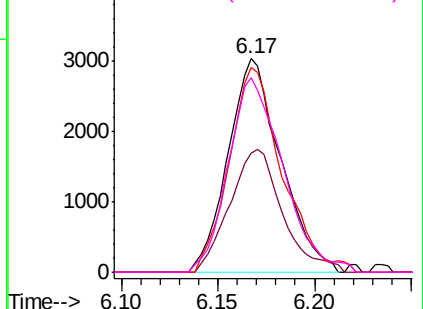
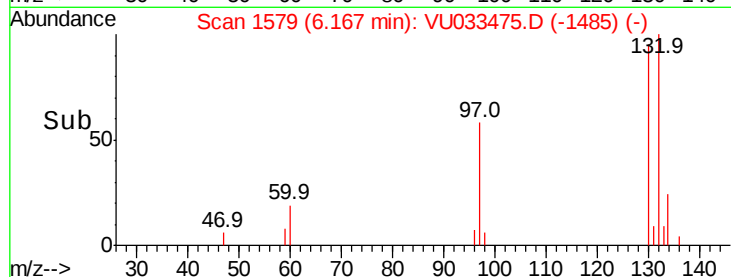
Tot Ion	Ratio	Lower	Upper
95	100		
97	55.5	45.4	84.2
132	95.6	67.1	124.5
130	91.0	71.4	132.6

Manual Integrations
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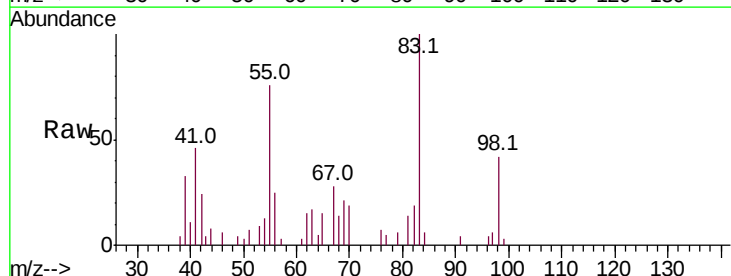


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

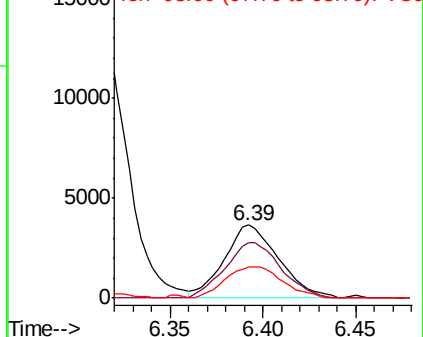
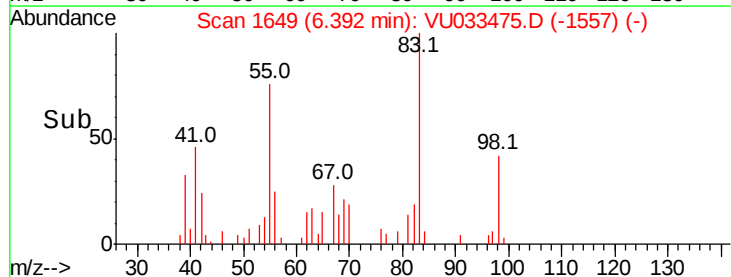


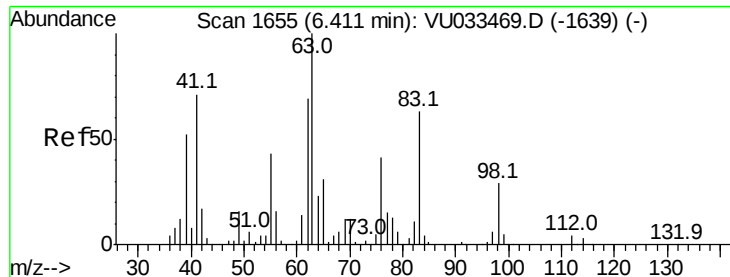
#35
 Methylcyclohexane
 Concen: 2.190 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU033475.D
 Acq: 29 Jul 2019 18:04

Tgt Ion	Ratio	Lower	Upper
83	100		
55	78.0	62.4	93.6
98	44.9	37.3	55.9



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





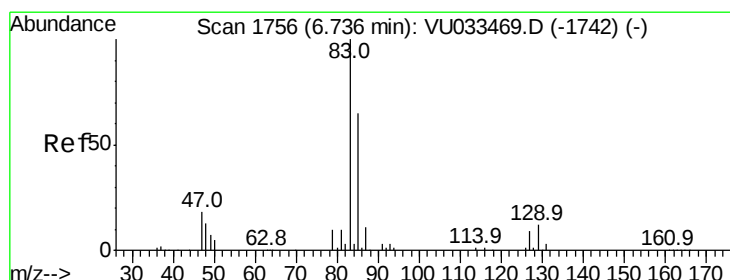
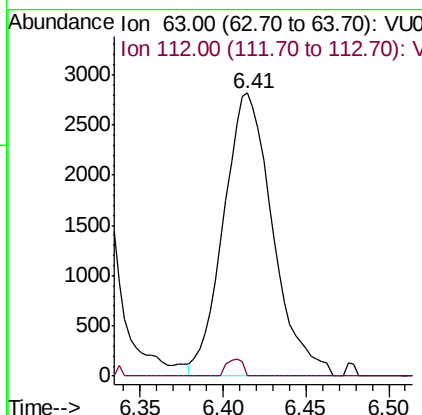
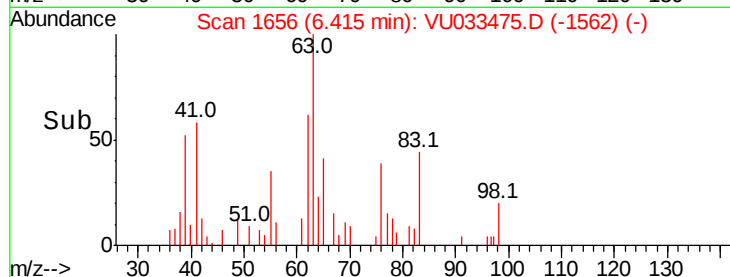
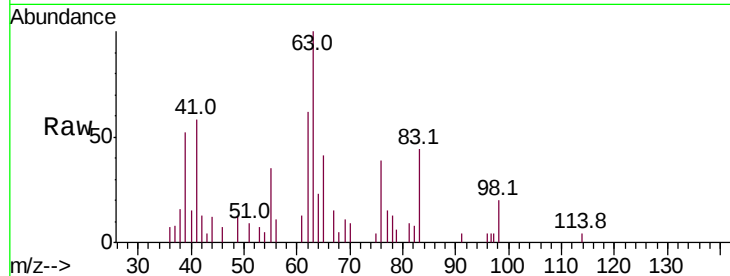
#37
 1,2-Dichloropropane
 Concen: 2.518 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033475.D
 Acq: 29 Jul 2019 18:04

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion: 63 Resp: 5809
 Ion Ratio Lower Upper
 63 100
 112 2.0 3.1 4.7#

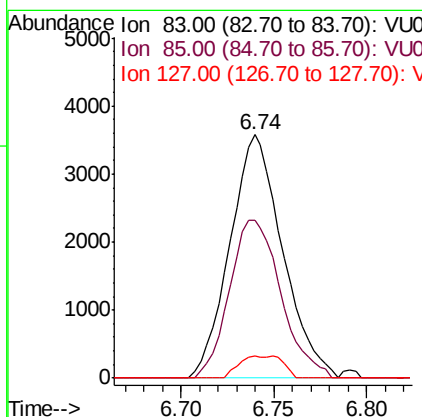
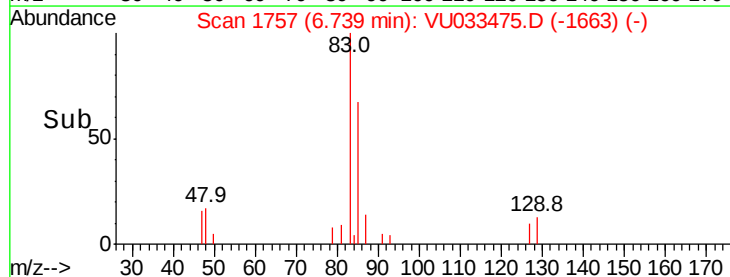
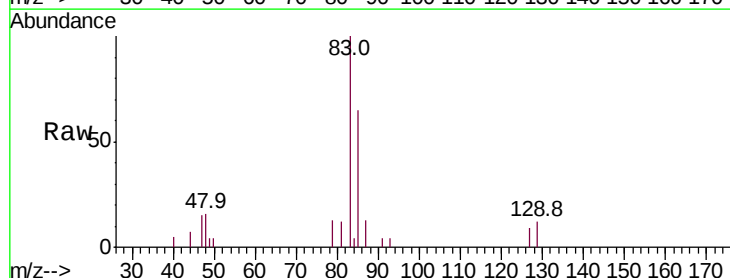
Manual Integrations
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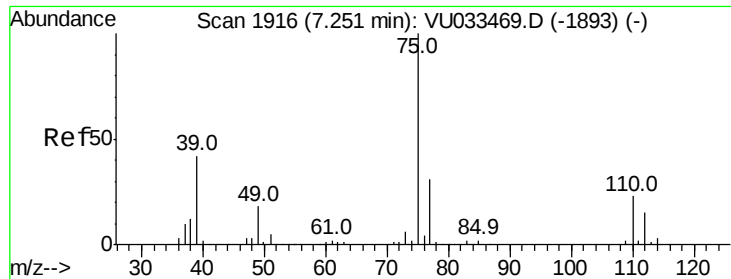
MMDadoda
 7/30/2019 3:00:55 PM



#38
 Bromodichloromethane
 Concen: 2.319 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033475.D
 Acq: 29 Jul 2019 18:04

Tgt Ion: 83 Resp: 7044
 Ion Ratio Lower Upper
 83 100
 85 64.7 45.4 84.4
 127 9.4 7.3 10.9





#39

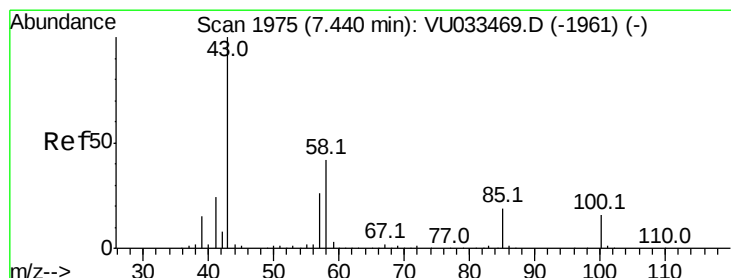
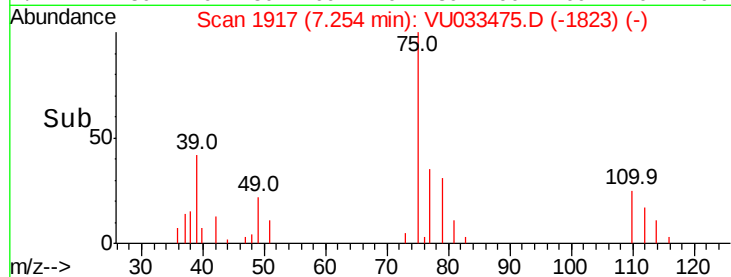
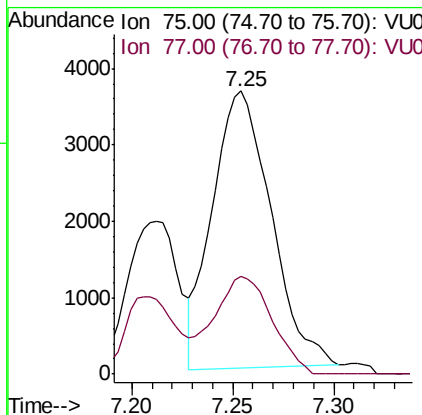
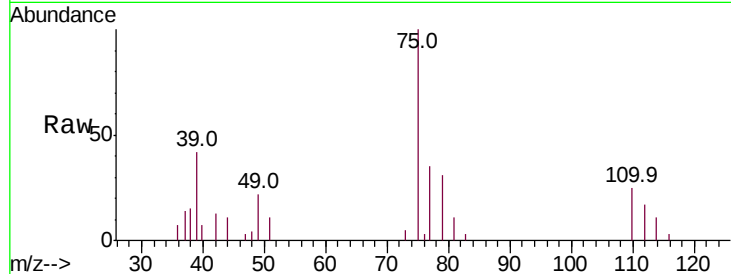
cis-1,3-Dichloropropene
Concen: 2.141 ug/L
RT: 7.25 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion: 75 Resp: 7366
Ion Ratio Lower Upper
75 100
77 34.6 21.6 40.2

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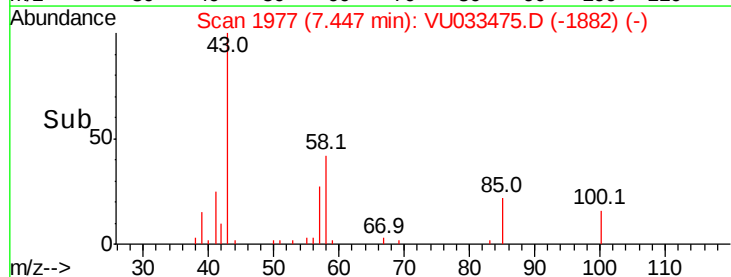
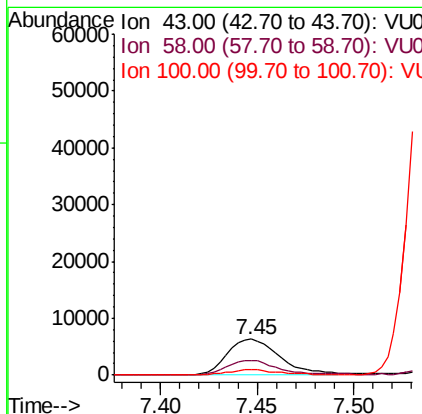
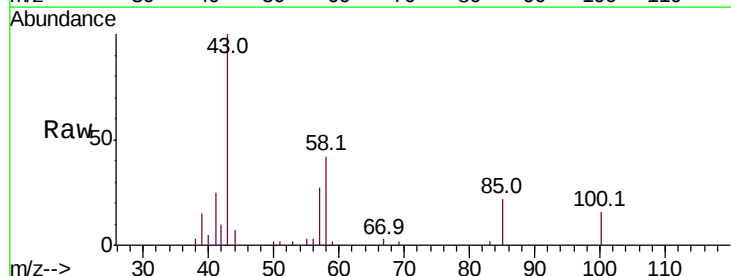
MMDadoda
7/30/2019 3:00:55 PM

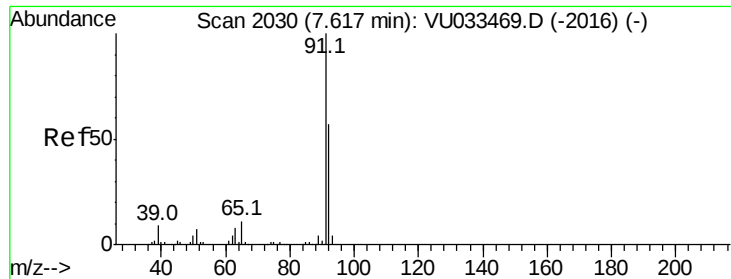


#40

4-Methyl-2-pentanone
Concen: 3.997 ug/L
RT: 7.45 min Scan# 1977
Delta R.T. 0.01 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Tgt Ion: 43 Resp: 12155
Ion Ratio Lower Upper
43 100
58 39.7 33.4 50.2
100 14.0 12.3 18.5





#42

Toluene

Concen: 2.391 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 91 Resp: 22071

Ion Ratio Lower Upper

91 100

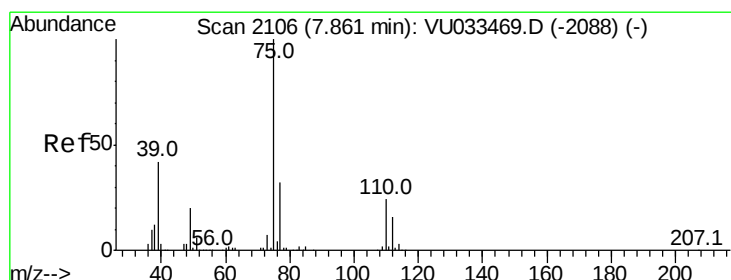
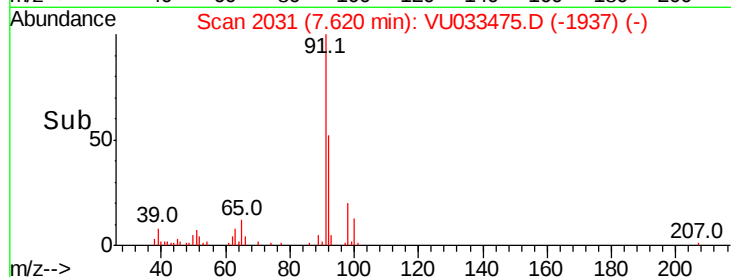
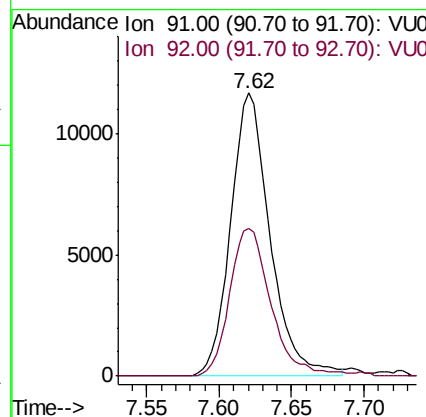
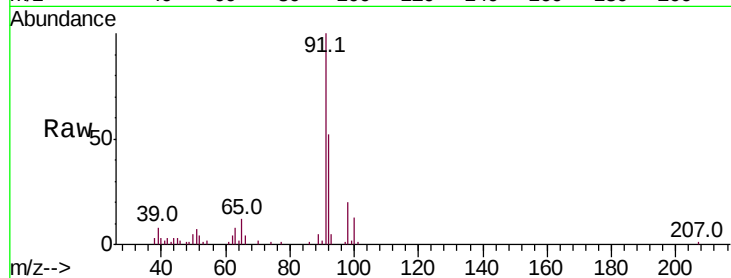
92 52.2 40.1 74.5

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7/30/2019 3:00:55 PM



#44

trans-1,3-Dichloropropene

Concen: 2.186 ug/L m

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033475.D

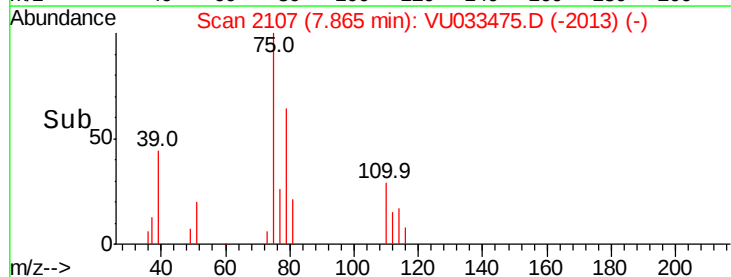
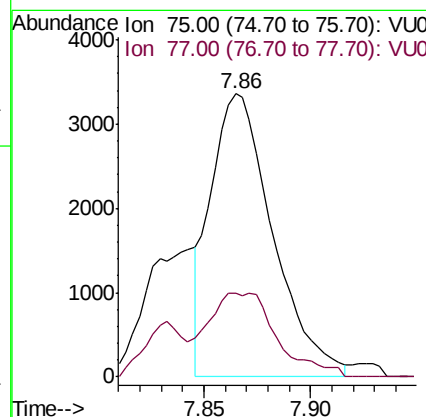
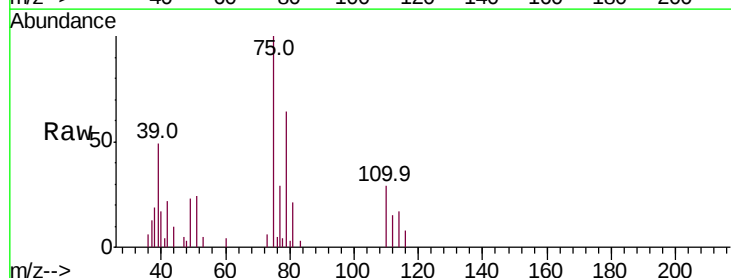
Acq: 29 Jul 2019 18:04

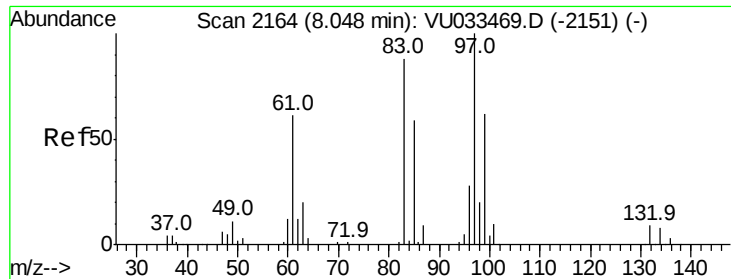
Tgt Ion: 75 Resp: 6827

Ion Ratio Lower Upper

75 100

77 29.3 22.3 41.5





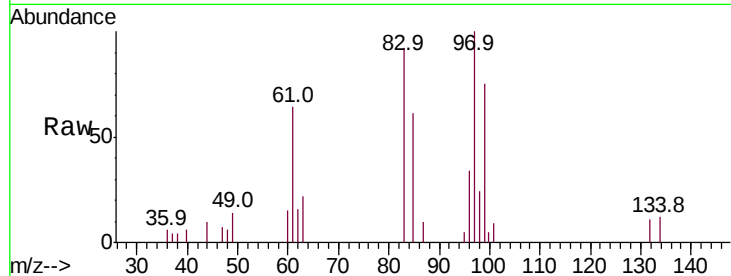
#45
1,1,2-Trichloroethane
Concen: 2.223 ug/L
RT: 8.05 min Scan# 2166
Delta R.T. 0.01 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
97	100		
99	74.6	43.3	80.5
83	92.0	61.3	113.9
85	61.2	41.0	76.2

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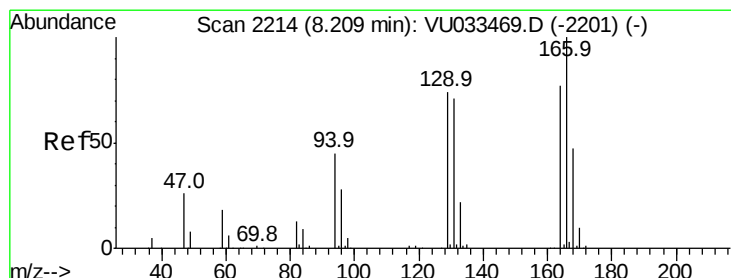
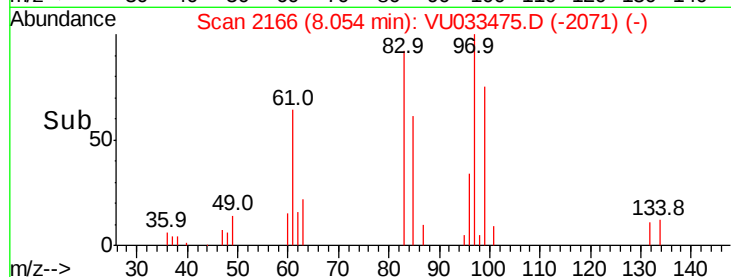
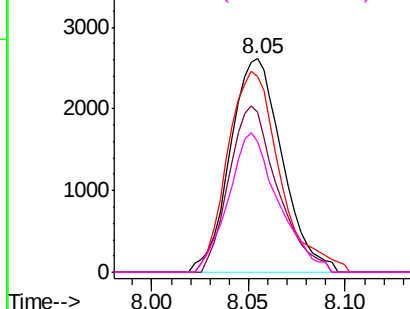
Abundance

Ion 97.00 (96.70 to 97.70): VU033475.D (-2166) (-)

Ion 99.00 (98.70 to 99.70): VU033475.D (-2166) (-)

Ion 83.00 (82.70 to 83.70): VU033475.D (-2166) (-)

Ion 85.00 (84.70 to 85.70): VU033475.D (-2166) (-)



#46
Tetrachloroethene
Concen: 2.184 ug/L
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Tgt Ion	Ratio	Lower	Upper
164	100		
129	107.4	66.6	123.8
131	110.2	63.9	118.7
166	130.8	90.5	168.1

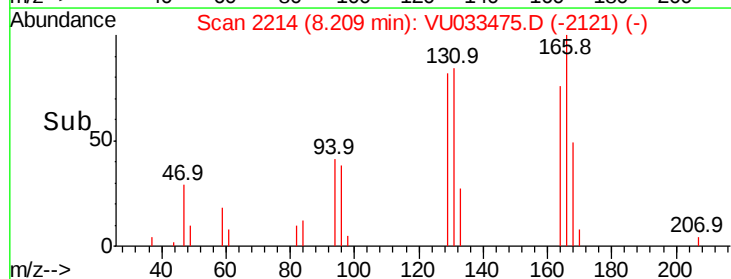
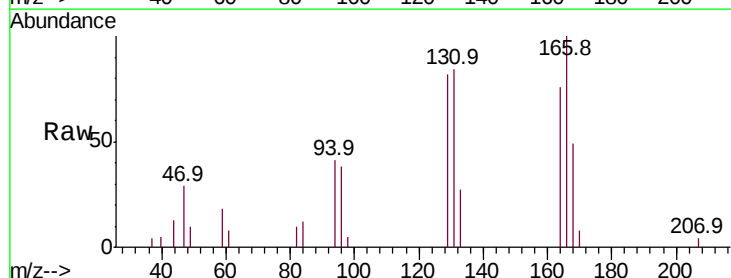
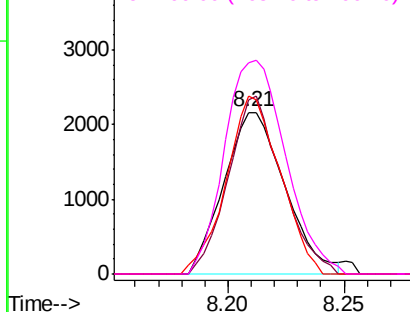
Abundance

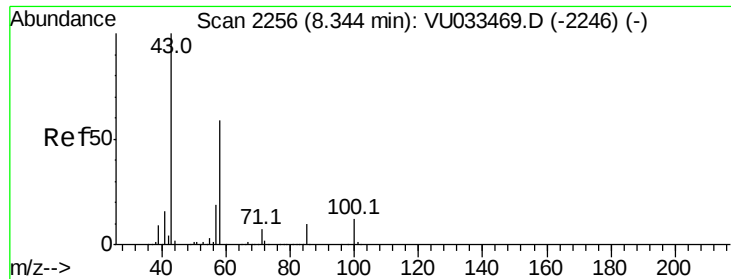
Ion 164.00 (163.70 to 164.70): VU033475.D (-2214) (-)

Ion 129.00 (128.70 to 129.70): VU033475.D (-2214) (-)

Ion 131.00 (130.70 to 131.70): VU033475.D (-2214) (-)

Ion 166.00 (165.70 to 166.70): VU033475.D (-2214) (-)





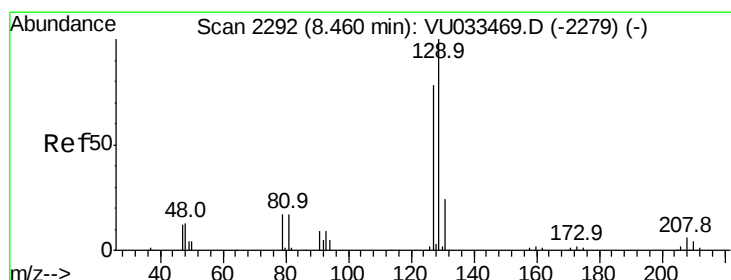
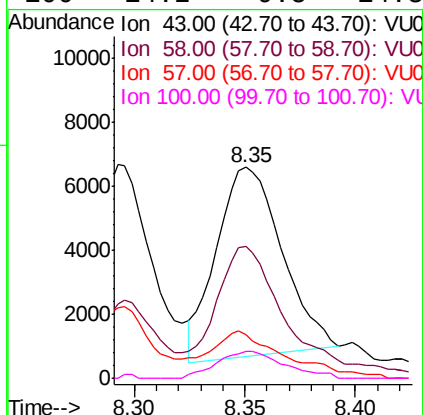
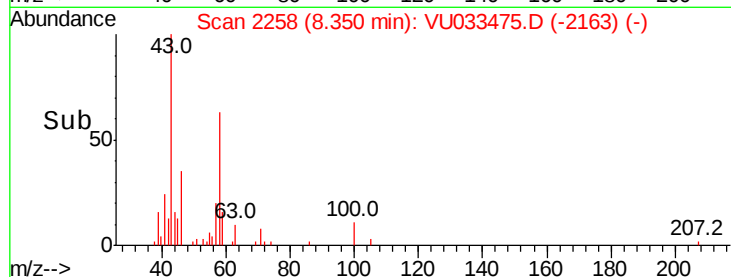
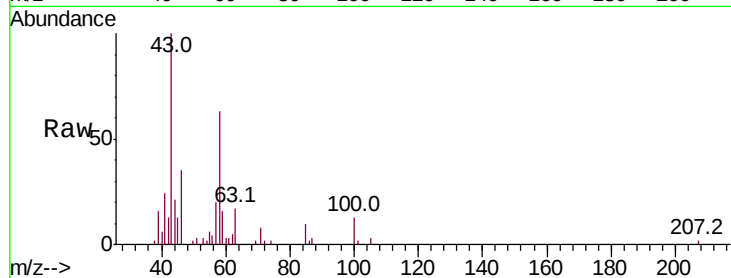
#48
2-Hexanone
Concen: 4.918 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion	Ratio	Lower	Upper
43	100		
58	62.1	46.6	69.8
57	14.2	16.0	24.0
100	14.2	9.5	14.3

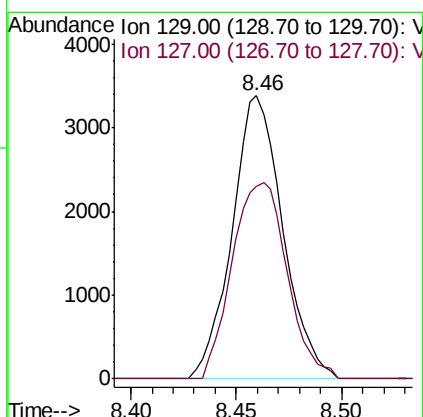
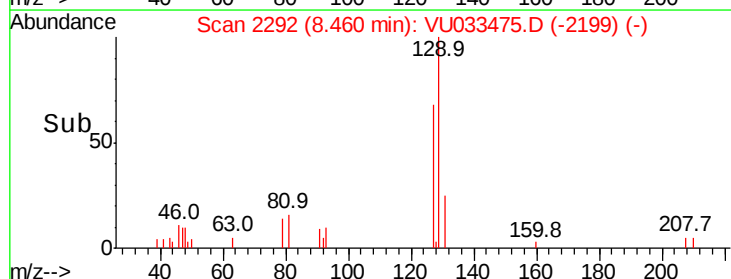
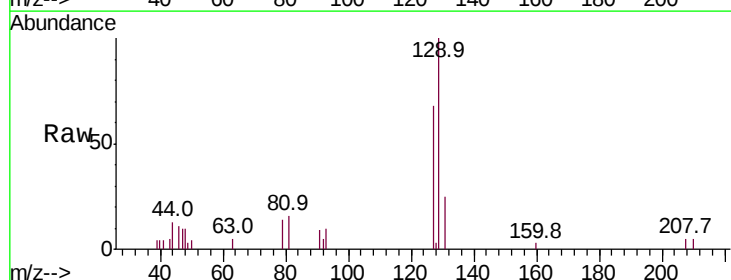
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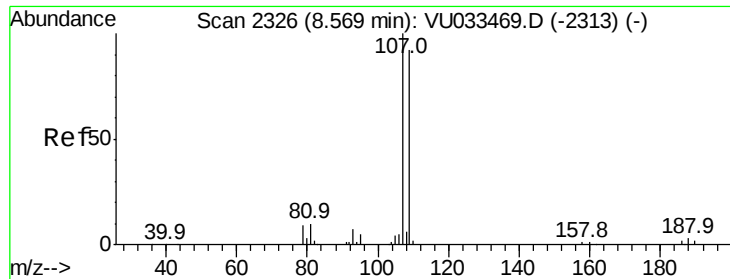
MMDadoda
7/30/2019 3:00:55 PM



#49
Dibromochloromethane
Concen: 2.297 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Tgt Ion	Ratio	Lower	Upper
129	100		
127	67.9	54.5	101.1





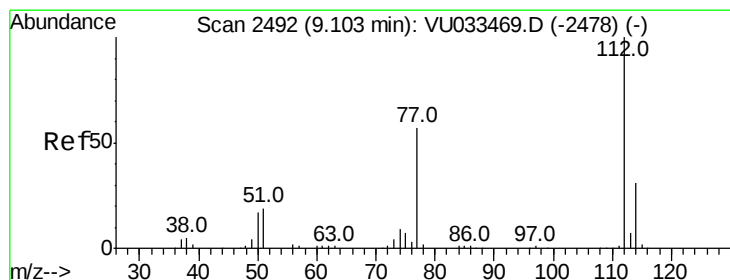
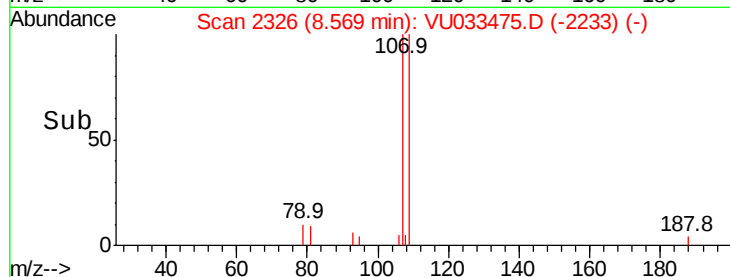
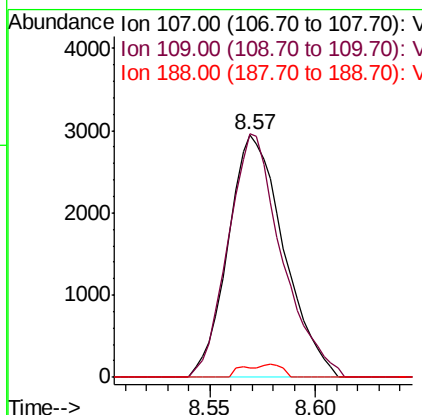
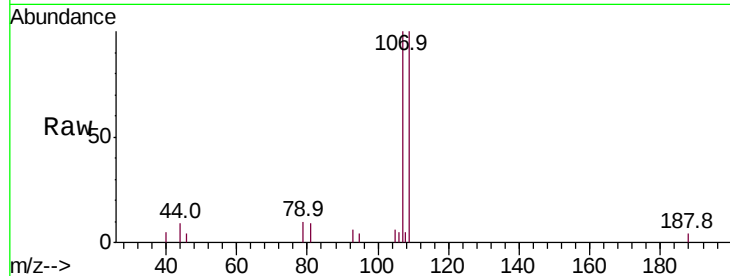
#50
1,2-Dibromoethane
Concen: 2.263 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
107	100		
109	100.3	64.7	120.1
188	3.9	2.8	4.2

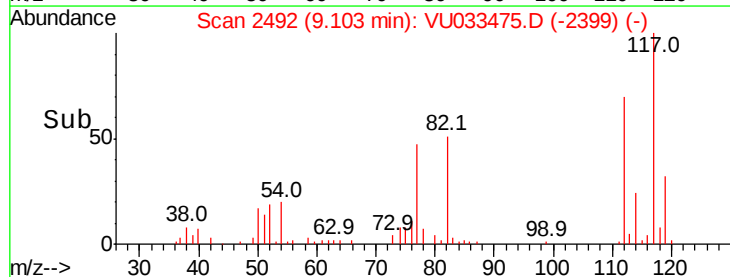
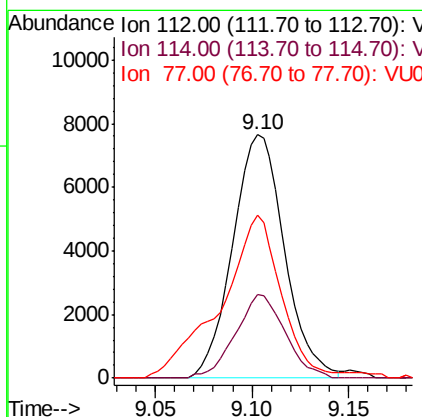
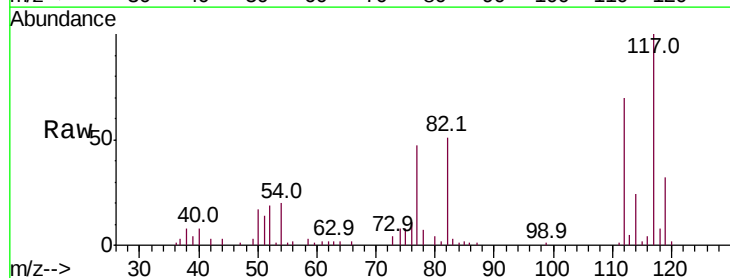
Manual Integrations
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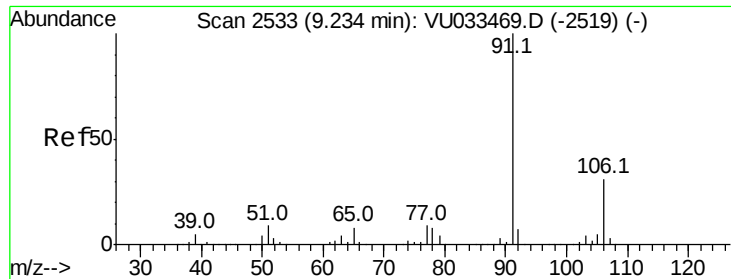
MMDadoda
7/30/2019 3:00:55 PM



#51
Chlorobenzene
Concen: 2.320 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.2	21.9	40.7
77	66.9	46.1	69.1





#52

Ethylbenzene

Concen: 2.139 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 91 Resp: 21406

Ion Ratio Lower Upper

91 100

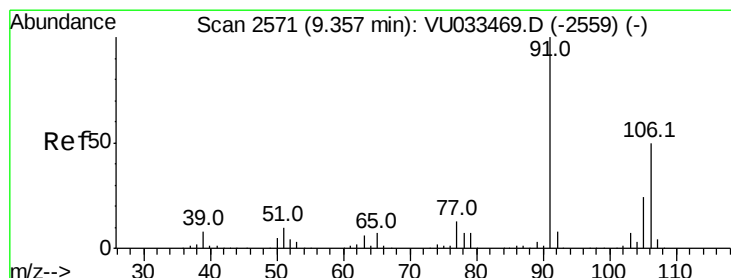
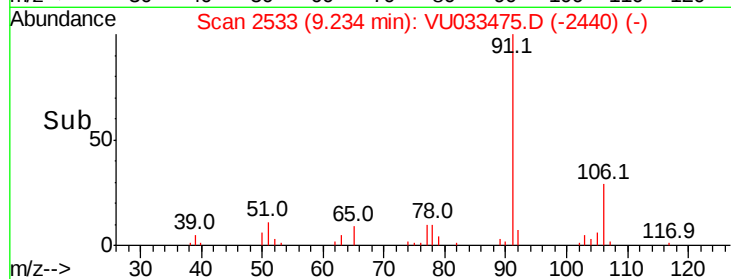
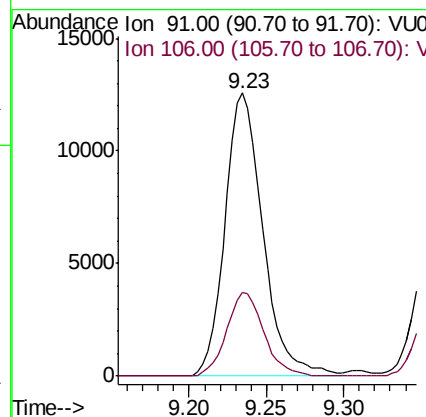
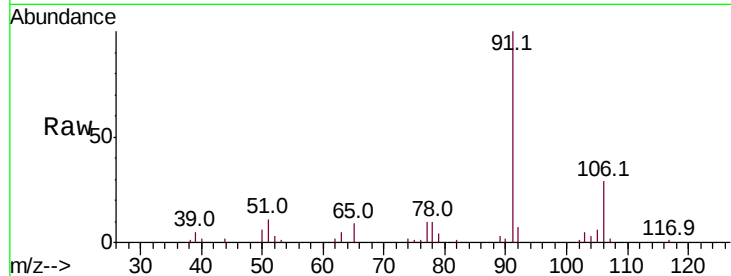
106 29.5 21.6 40.2

Manual Integrations

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7/30/2019 3:00:55 PM



#53

m,p-Xylene

Concen: 1.946 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033475.D

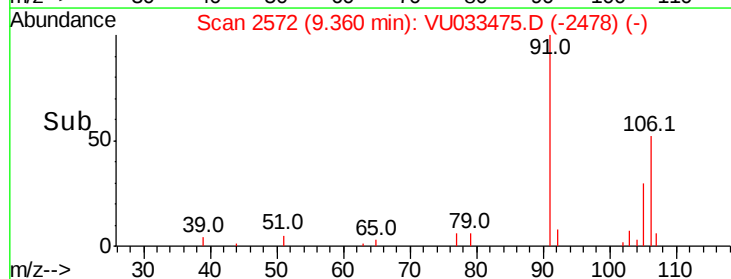
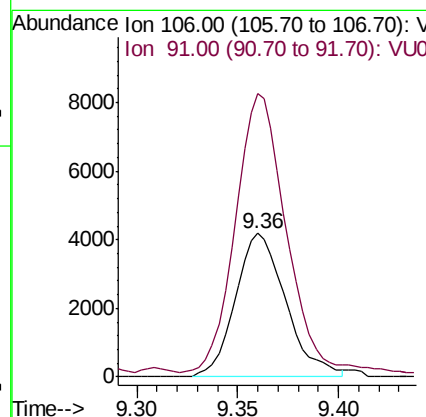
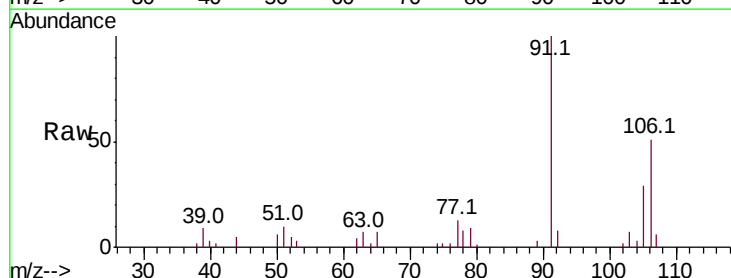
Acq: 29 Jul 2019 18:04

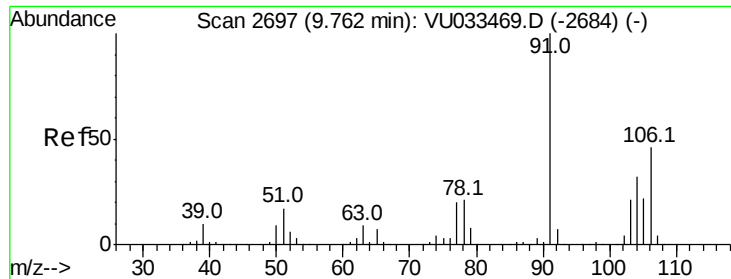
Tgt Ion: 106 Resp: 7325

Ion Ratio Lower Upper

106 100

91 197.6 140.7 261.3





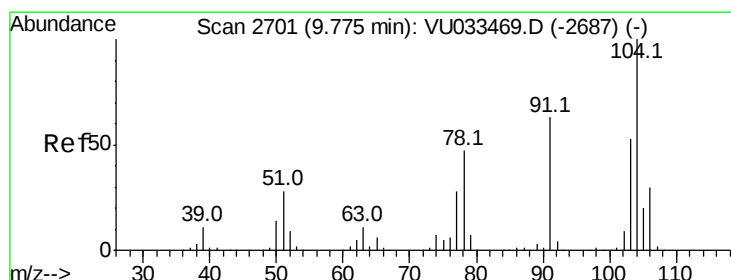
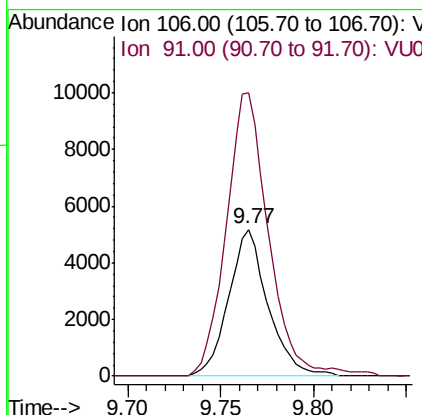
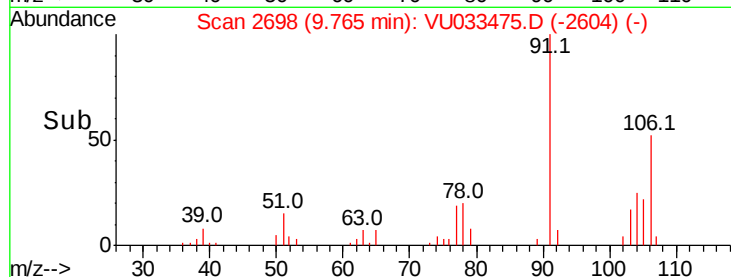
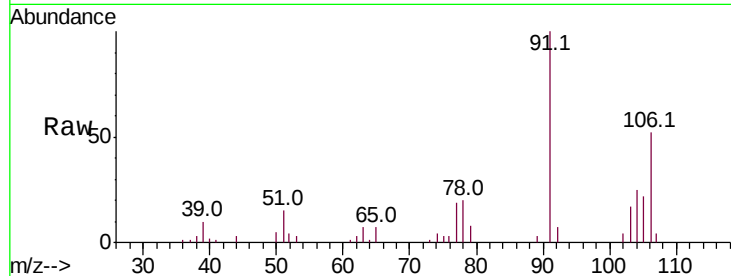
#54
o-xylene
Concen: 2.063 ug/L
RT: 9.77 min Scan# 2698
Delta R.T. 0.00 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion:106 Resp: 7611
Ion Ratio Lower Upper
106 100
91 193.2 151.1 280.7

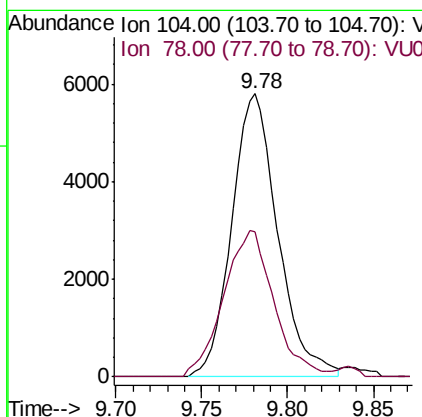
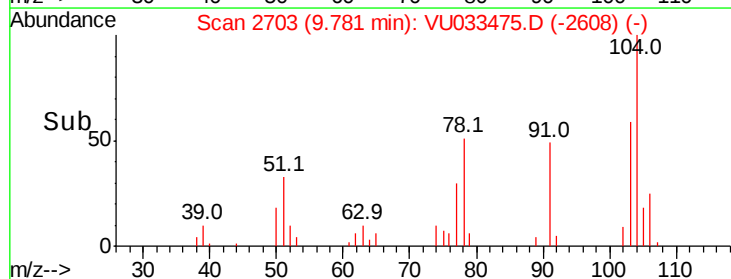
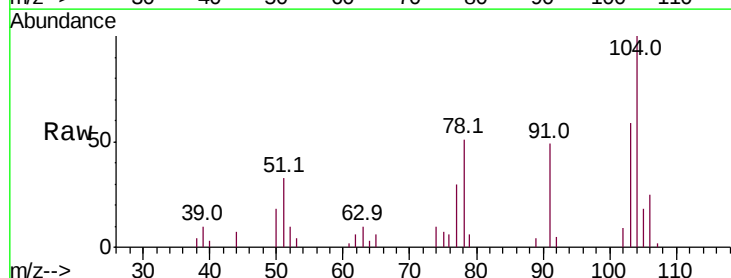
Manual Integrations
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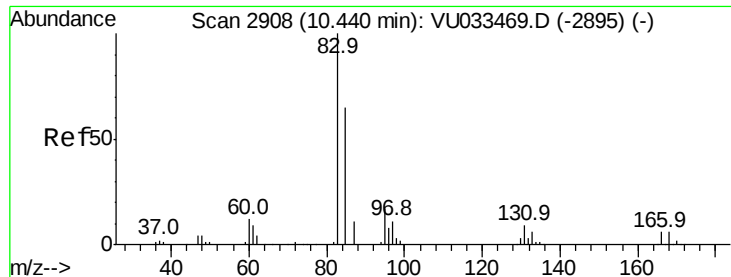
MMDadoda
7/30/2019 3:00:55 PM



#55
Styrene
Concen: 1.732 ug/L
RT: 9.78 min Scan# 2703
Delta R.T. 0.01 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Tgt Ion:104 Resp: 10844
Ion Ratio Lower Upper
104 100
78 51.4 32.6 60.5





#57

1,1,2,2-Tetrachloroethane

Concen: 2.367 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Instrument :

MSVOA_U

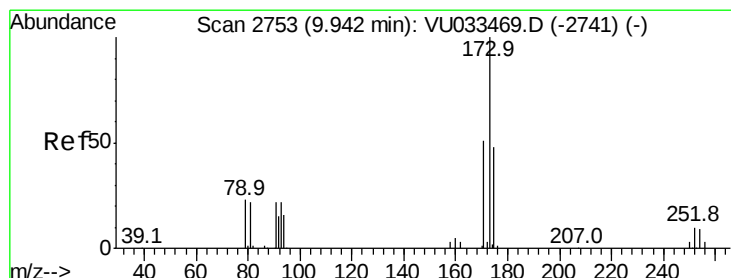
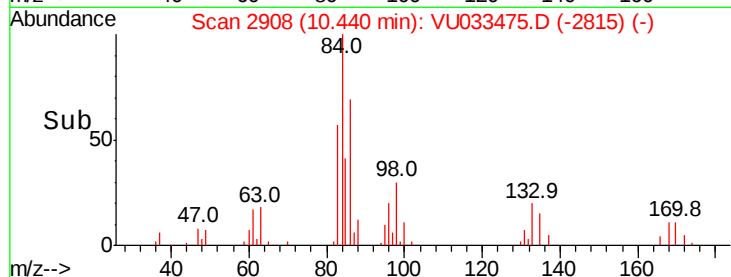
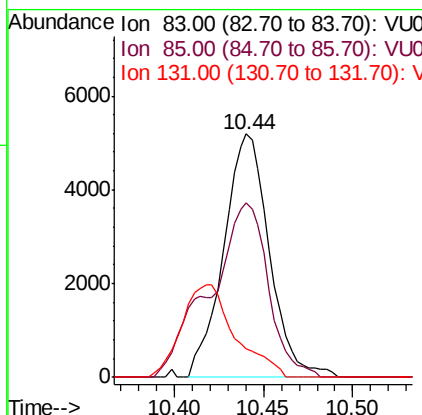
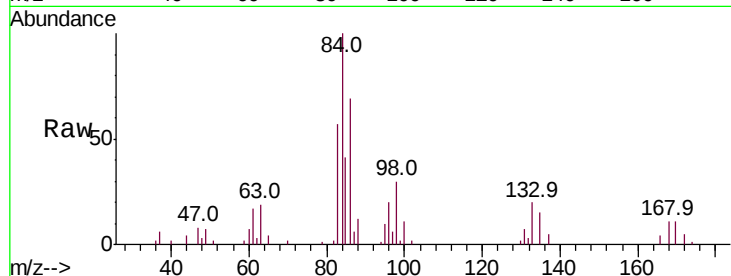
ClientSampleId :

MDL01

Tot Ion:	83	Resp:	9260
Ion	Ratio	Lower	Upper
83	100		
85	71.5	45.9	85.3
131	11.8	7.8	11.8#

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7/30/2019 3:00:55 PM



#59

Bromoform

Concen: 2.530 ug/L

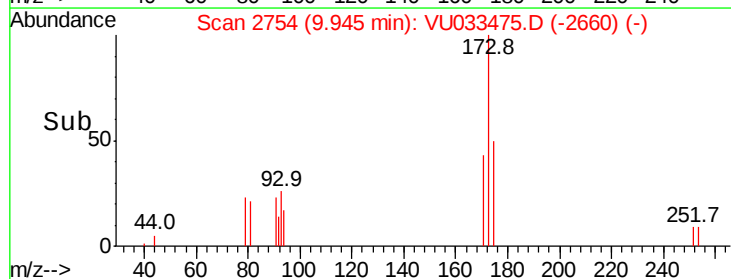
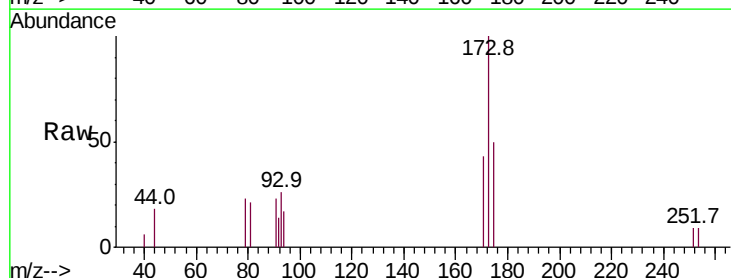
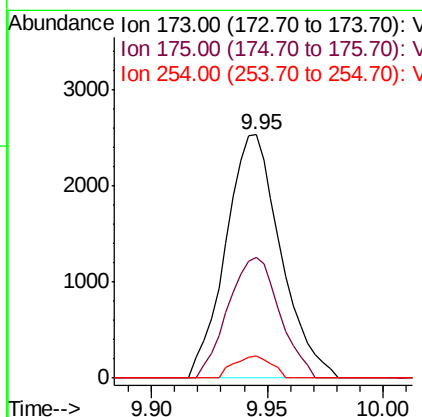
RT: 9.95 min Scan# 2754

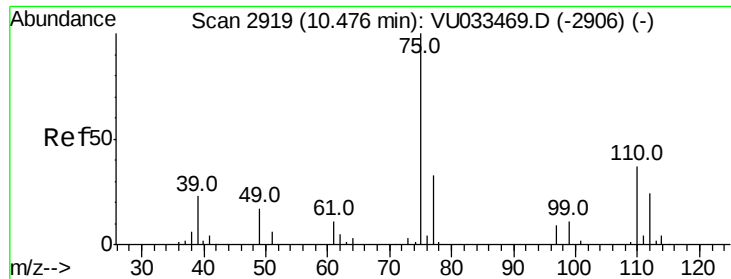
Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Tgt Ion:	173	Resp:	4159
Ion	Ratio	Lower	Upper
173	100		
175	46.6	38.1	57.1
254	6.3	7.3	10.9#





#60

1,2,3-Trichloropropane

Concen: 2.632 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Instrument :

MSVOA_U

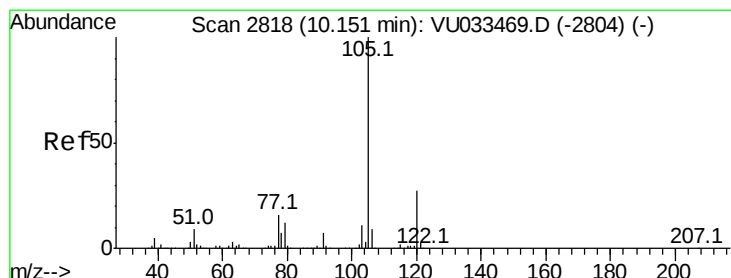
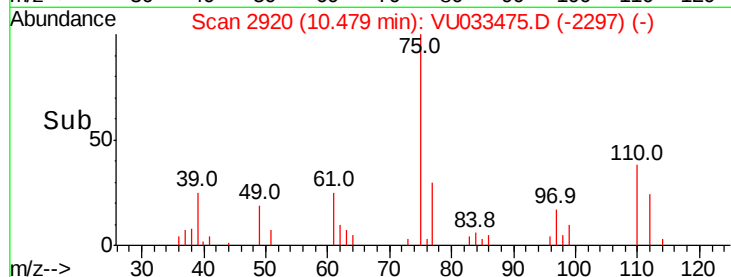
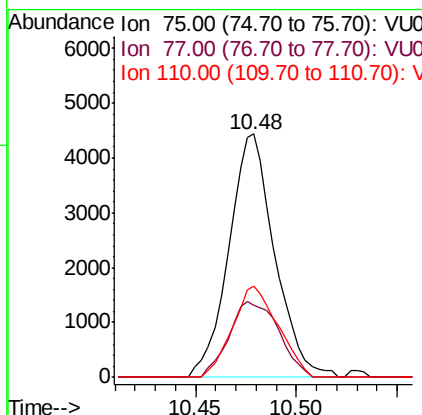
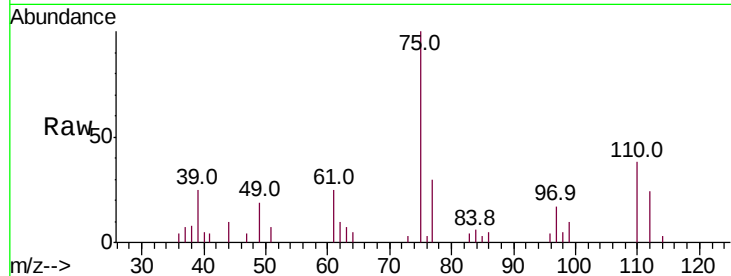
ClientSampleId :

MDL01

Tot Ion:	75	Resp:	7046
Ion Ratio	Lower	Upper	
75	100		
77	33.9	25.9	38.9
110	37.4	30.2	45.4

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7/30/2019 3:00:55 PM



#61

Isopropylbenzene

Concen: 2.222 ug/L

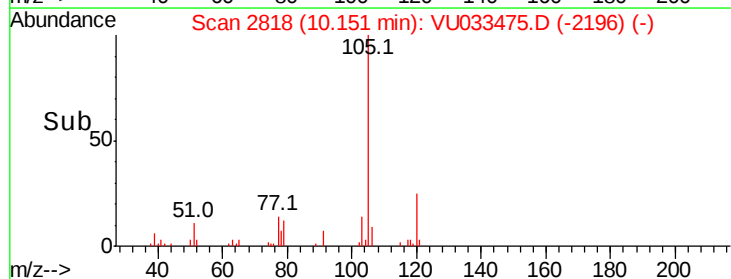
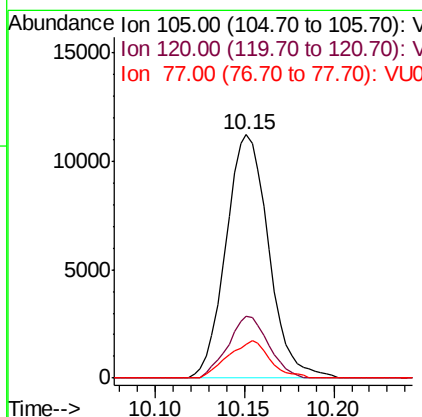
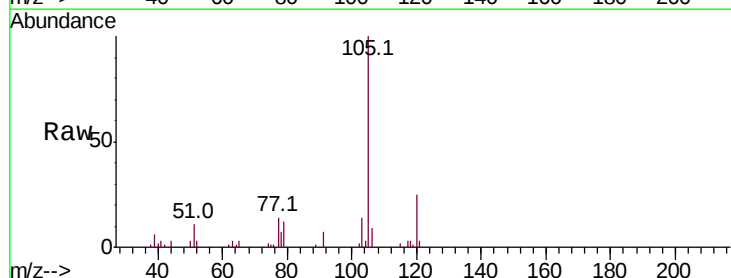
RT: 10.15 min Scan# 2818

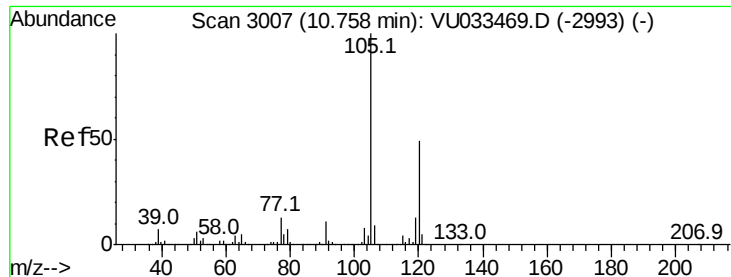
Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Tgt Ion:	105	Resp:	18703
Ion Ratio	Lower	Upper	
105	100		
120	24.1	21.7	32.5
77	15.0	12.6	19.0





#62

1,3,5-Trimethylbenzene

Concen: 1.902 ug/L

RT: 10.76 min Scan# 3007

Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion:105 Resp: 12973

Ion Ratio Lower Upper

105 100

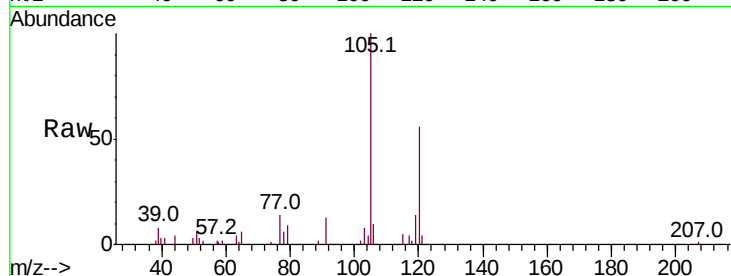
120 52.6 39.0 58.6

Manual Integrations

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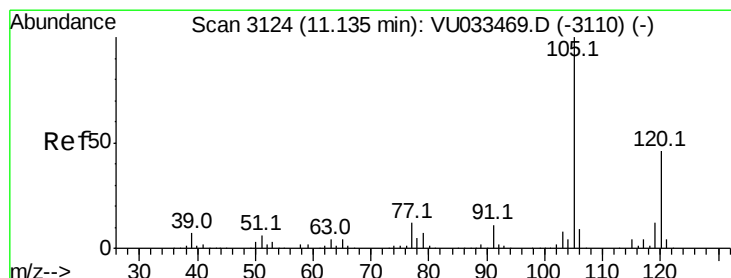
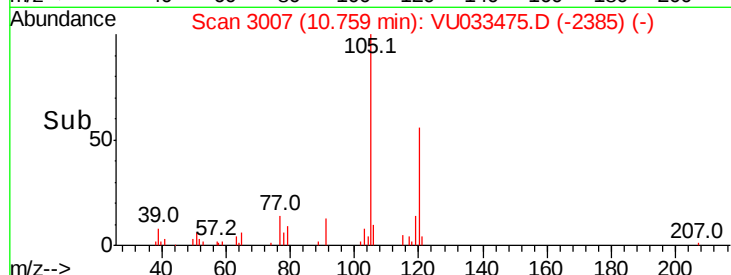
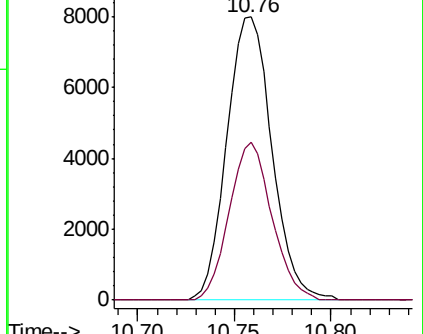
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 1.794 ug/L

RT: 11.13 min Scan# 3124

Delta R.T. 0.00 min

Lab File: VU033475.D

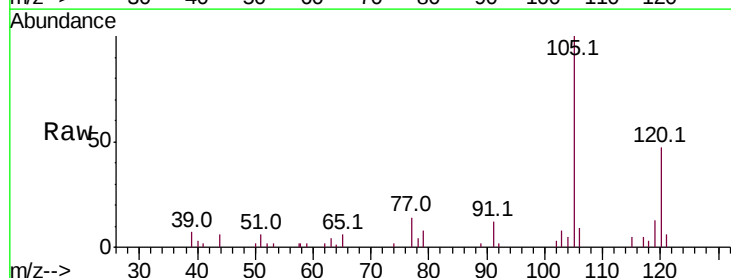
Acq: 29 Jul 2019 18:04

Tgt Ion:105 Resp: 12133

Ion Ratio Lower Upper

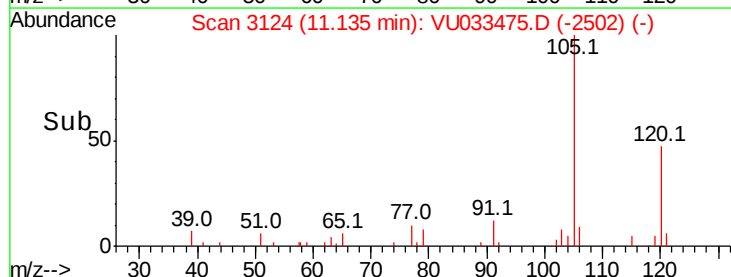
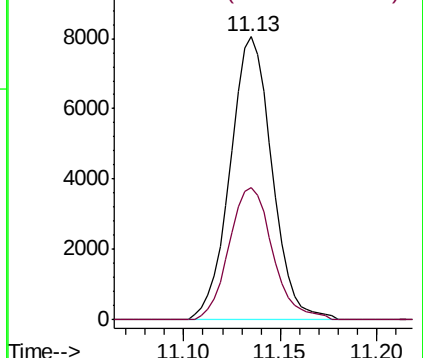
105 100

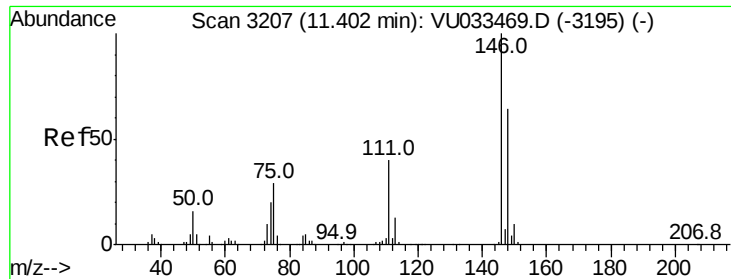
120 48.7 36.6 55.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 2.328 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Instrument :

MSVOA_U

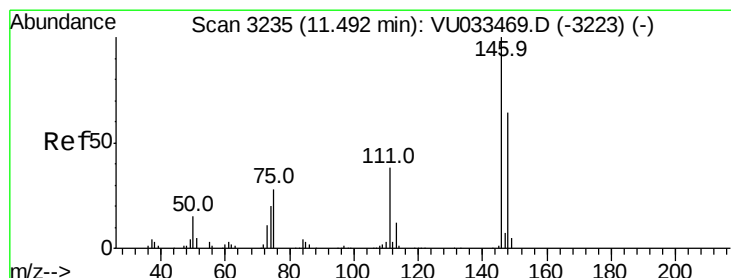
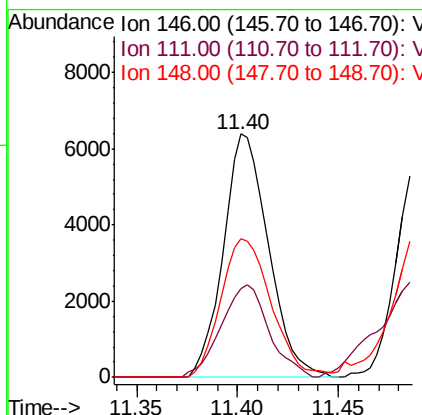
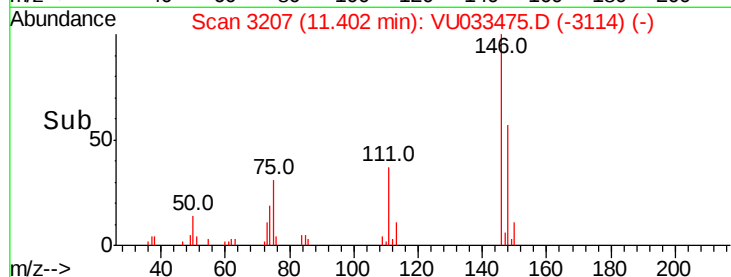
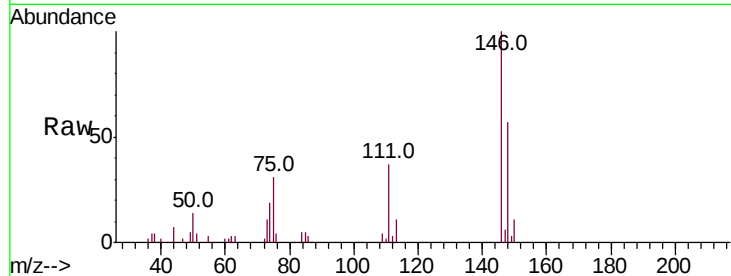
ClientSampled :

MDL01

Tot Ion:	146	Resp:	9988
Ion Ratio	Lower	Upper	
146	100		
111	36.6	28.2	52.4
148	56.8	44.4	82.5

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7/30/2019 3:00:55 PM



#65

1,4-Dichlorobenzene

Concen: 2.471 ug/L

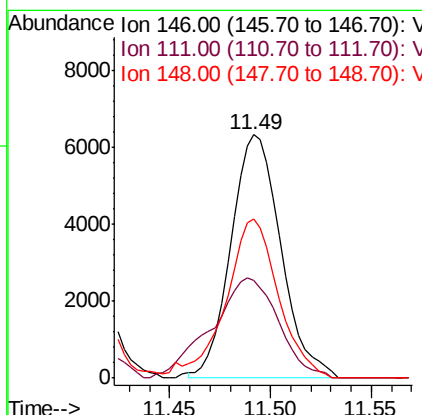
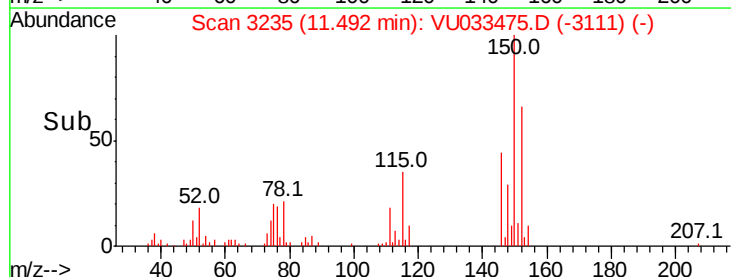
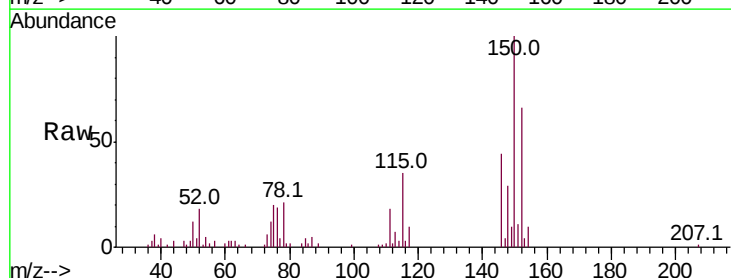
RT: 11.49 min Scan# 3235

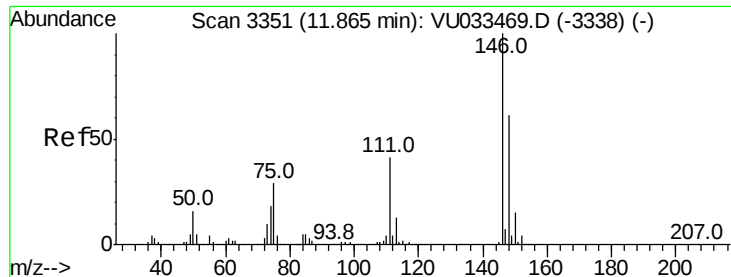
Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Tgt Ion:	146	Resp:	10953
Ion Ratio	Lower	Upper	
146	100		
111	40.0	27.0	50.2
148	65.2	44.7	82.9





#67

1,2-Dichlorobenzene

Concen: 2.654 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033475.D

Acq: 29 Jul 2019 18:04

Instrument :

MSVOA_U

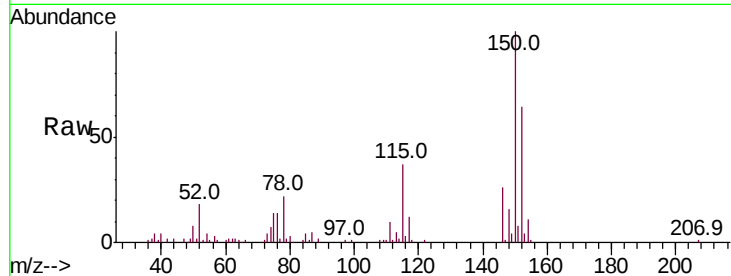
ClientSampleId :

MDL01

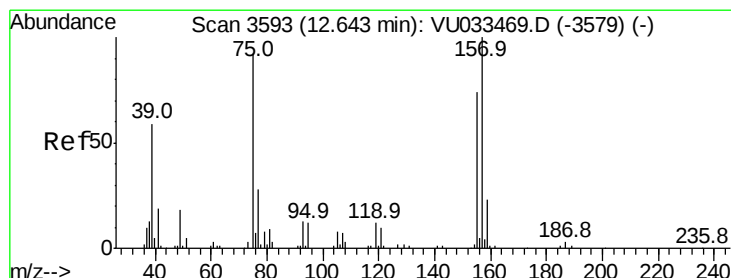
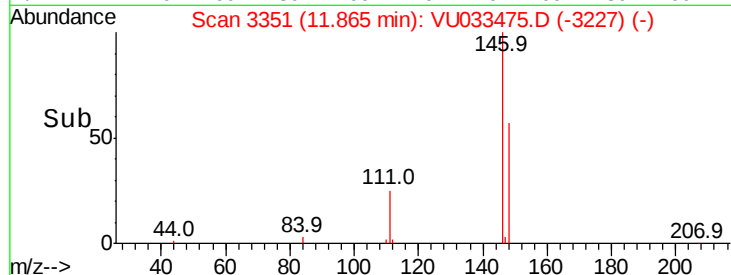
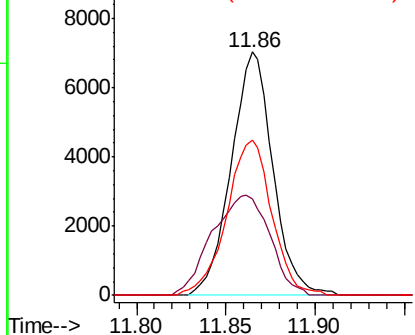
Tot Ion:	146	Resp:	11411
Ion Ratio	Lower	Upper	
146	100		
111	39.6	32.8	49.2
148	63.6	49.2	73.8

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7/30/2019 3:00:55 PM



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#68

1,2-Dibromo-3-chloropropane

Concen: 2.256 ug/L

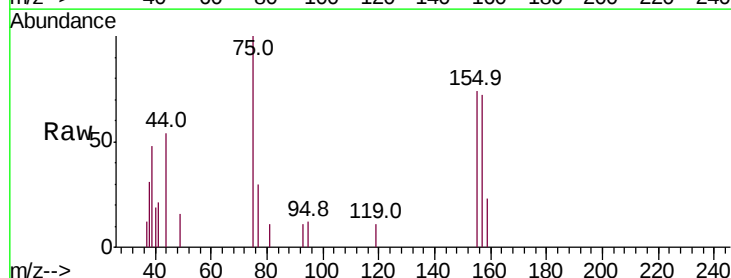
RT: 12.65 min Scan# 3594

Delta R.T. 0.00 min

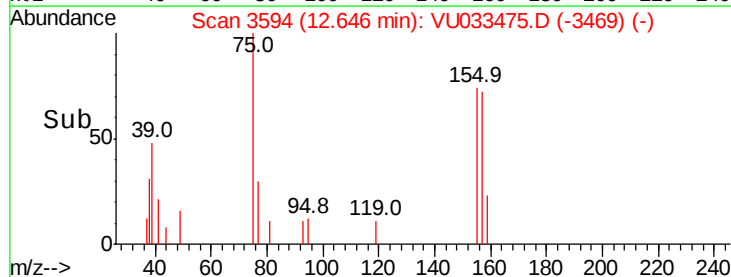
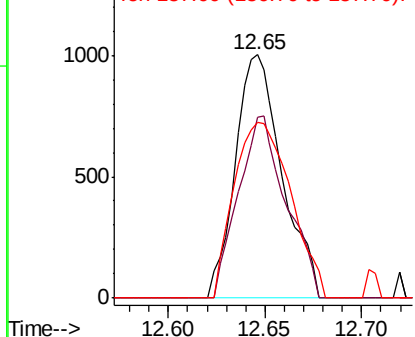
Lab File: VU033475.D

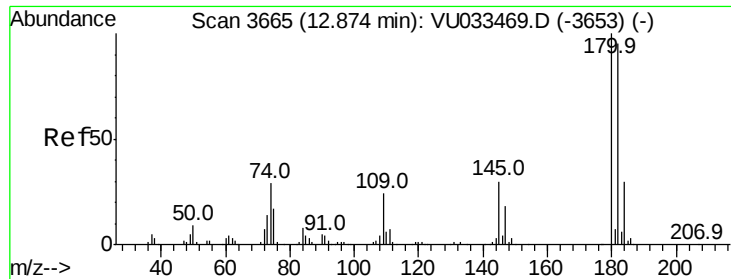
Acq: 29 Jul 2019 18:04

Tgt Ion:	75	Resp:	1679
Ion Ratio	Lower	Upper	
75	100		
155	74.1	64.8	97.2
157	72.3	87.1	130.7#



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 155.00 (154.70 to 155.70): V
Ion 157.00 (156.70 to 157.70): V





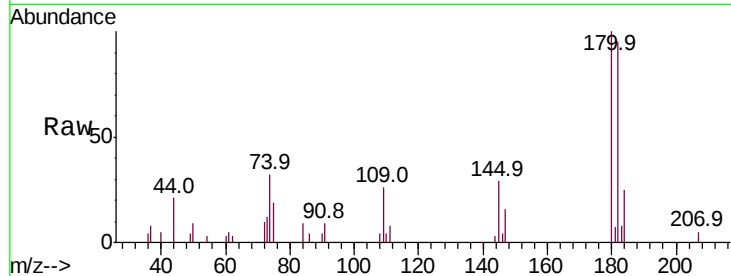
#69
 1,3,5-Trichlorobenzene
 Concen: 2.153 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033475.D
 Acq: 29 Jul 2019 18:04

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.2	76.2	114.4
184	27.4	24.1	36.1
145	26.1	23.7	35.5

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 7/30/2019 3:00:55 PM



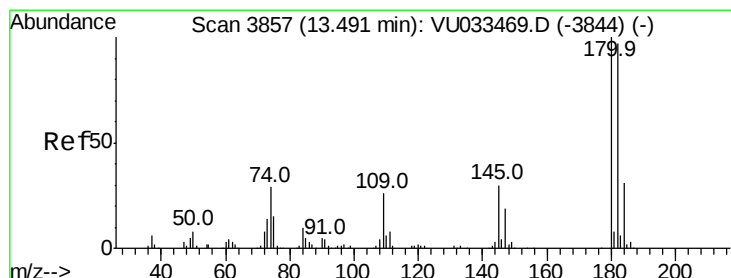
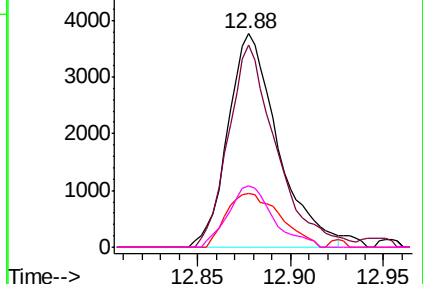
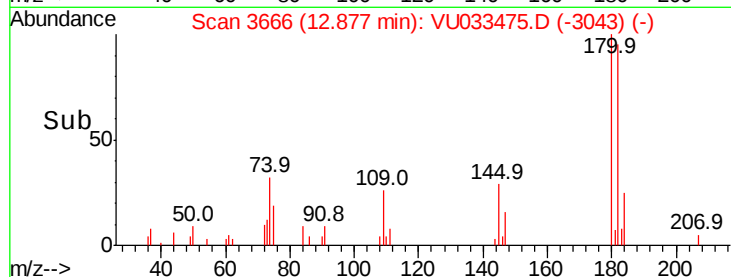
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

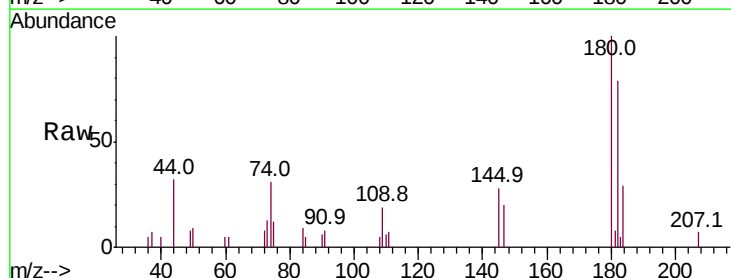
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 1.553 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033475.D
 Acq: 29 Jul 2019 18:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.4	77.5	116.3
145	26.3	23.9	35.9

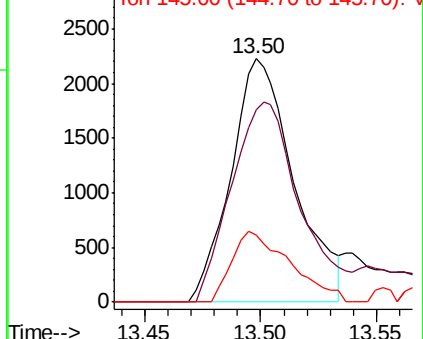
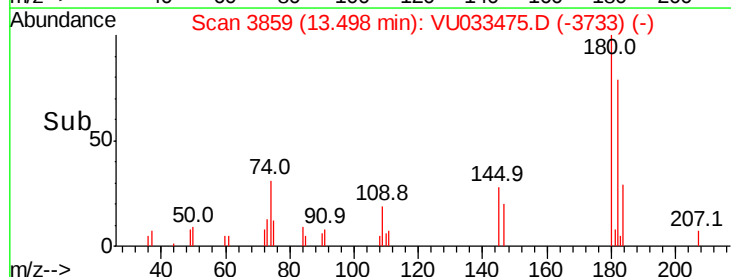


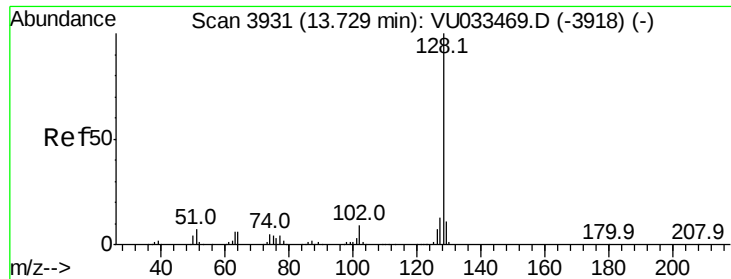
Abundance

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





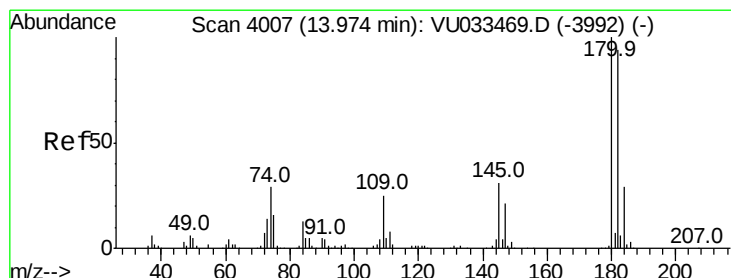
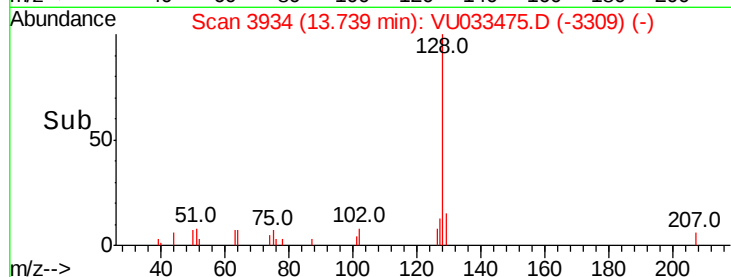
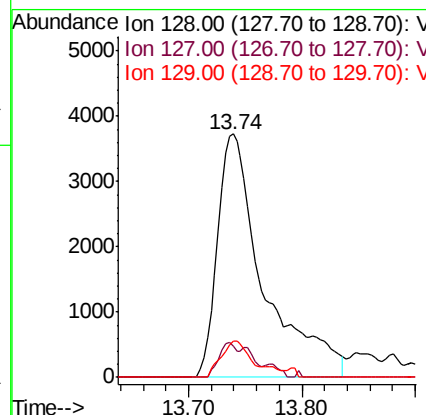
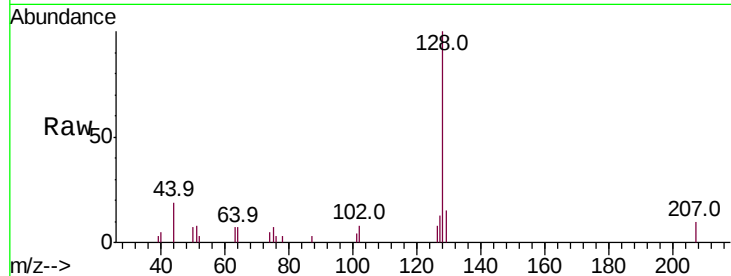
#71
Naphthalene
Concen: 1.339 ug/L m
RT: 13.74 min Scan# 3934
Delta R.T. 0.01 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
128	100		
127	6.1	10.8	16.2#
129	9.8	8.7	13.1

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7/30/2019 3:00:55 PM



#72
1,2,3-Trichlorobenzene
Concen: 1.638 ug/L
RT: 13.98 min Scan# 4009
Delta R.T. 0.01 min
Lab File: VU033475.D
Acq: 29 Jul 2019 18:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.4	114.6
145	28.5	24.9	37.3

