

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073019\
 Data File : VU033487.D
 Acq On : 30 Jul 2019 12:11
 Operator : JC/SP
 Sample : MDL03
 Misc : 5.00u/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMdadoda
 8/1/2019 3:14:54 PM

Quant Time: Jul 31 09:05:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM072919W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jul 31 08:44:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	296071	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	306293	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	142699	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	116458	43.32	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.64%
7) Chloroethane-d5	1.67	69	102358	46.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.16%
11) 1,1-Dichloroethene-d2	2.25	63	162630	33.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.16%
21) 2-Butanone-d5	4.15	46	145615	94.52	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.52%
24) Chloroform-d	4.62	84	179301	44.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.12%
26) 1,2-Dichloroethane-d4	5.29	65	123833	47.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.42%
32) Benzene-d6	5.32	84	384675	46.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.58%
36) 1,2-Dichloropropane-d6	6.31	67	122087	47.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.74%
41) Toluene-d8	7.55	98	350868	45.39	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.78%
43) trans-1,3-Dichloropropene-	7.83	79	55744	44.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.46%
47) 2-Hexanone-d5	8.29	63	106844	100.85	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.85%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	184252	47.07	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.14%
66) 1,2-Dichlorobenzene-d4	11.85	152	136859	49.91	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.82%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	6265	2.121 ug/L	98
3) Chloromethane	1.32	50	6723	2.280 ug/L	95
5) Vinyl chloride	1.40	62	7873	2.334 ug/L #	74
6) Bromomethane	1.62	94	4868	2.065 ug/L	94
8) Chloroethane	1.69	64	4731	2.287 ug/L	99
9) Trichlorofluoromethane	1.87	101	9782	2.211 ug/L	93
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	6170	2.776 ug/L #	85
12) 1,1-Dichloroethene	2.27	96	5950	2.747 ug/L #	1
13) Acetone	2.31	43	7430	4.867 ug/L	94
14) Carbon disulfide	2.46	76	14336	2.221 ug/L	95
15) Methyl Acetate	2.60	43	5381	2.198 ug/L	99
16) Methylene chloride	2.68	84	5595	2.351 ug/L	96
17) trans-1,2-Dichloroethene	2.96	96	5061	2.352 ug/L	85
18) Methyl tert-butyl Ether	2.98	73	12956	2.041 ug/L	96
19) 1,1-Dichloroethane	3.42	63	8639	2.133 ug/L	96
20) cis-1,2-Dichloroethene	4.20	96	5210m	2.194 ug/L	
22) 2-Butanone	4.25	43	7747m	4.271 ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	2694	2.136	ug/L	94
25) Chloroform	4.65	83	24587	5.724	ug/L	97
27) 1,2-Dichloroethane	5.39	62	7362	2.207	ug/L	99
29) Cyclohexane	4.97	56	6578	1.955	ug/L	96
30) 1,1,1-Trichloroethane	4.89	97	8038	2.204	ug/L	98
31) Carbon tetrachloride	5.11	117	6849	2.110	ug/L	95
33) Benzene	5.37	78	19126	2.089	ug/L	100
34) Trichloroethene	6.17	95	5264	2.207	ug/L	96
35) Methylcyclohexane	6.39	83	7866	2.169	ug/L	94
37) 1,2-Dichloropropane	6.41	63	5446	2.212	ug/L #	96
38) Bromodichloromethane	6.74	83	6672	2.058	ug/L	88
39) cis-1,3-Dichloropropene	7.26	75	7191	1.959	ug/L	97
40) 4-Methyl-2-pentanone	7.45	43	12972	3.998	ug/L	98
42) Toluene	7.62	91	21995	2.233	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	6967	2.091	ug/L	95
45) 1,1,2-Trichloroethane	8.05	97	4986	2.123	ug/L	95
46) Tetrachloroethene	8.21	164	4020	2.071	ug/L	97
48) 2-Hexanone	8.35	43	14851	5.618	ug/L	95
49) Dibromochloromethane	8.46	129	5628	2.140	ug/L	99
50) 1,2-Dibromoethane	8.57	107	5423	2.129	ug/L #	100
51) Chlorobenzene	9.10	112	13538	2.068	ug/L	94
52) Ethylbenzene	9.23	91	20564	1.926	ug/L	97
53) m,p-Xylene	9.36	106	7270	1.810	ug/L	86
54) o-xylene	9.76	106	7294	1.852	ug/L	97
55) Styrene	9.78	104	12233	1.831	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.44	83	9939	2.381	ug/L #	96
59) Bromoform	9.94	173	3895	2.182	ug/L	98
60) 1,2,3-Trichloropropane	10.48	75	7559	2.600	ug/L	96
61) Isopropylbenzene	10.15	105	18033	1.973	ug/L	98
62) 1,3,5-Trimethylbenzene	10.76	105	13226	1.786	ug/L	100
63) 1,2,4-Trimethylbenzene	11.13	105	13166	1.793	ug/L	100
64) 1,3-Dichlorobenzene	11.40	146	9845	2.113	ug/L	98
65) 1,4-Dichlorobenzene	11.49	146	10793	2.242	ug/L	91
67) 1,2-Dichlorobenzene	11.86	146	11310	2.423	ug/L	94
68) 1,2-Dibromo-3-chloropropan	12.65	75	1813	2.243	ug/L	90
69) 1,3,5-Trichlorobenzene	12.88	180	6742	1.906	ug/L	97
70) 1,2,4-trichlorobenzene	13.50	180	4461	1.511	ug/L	92
71) Naphthalene	13.74	128	11142m	1.305	ug/L	
72) 1,2,3-Trichlorobenzene	13.98	180	5002	1.617	ug/L #	91

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

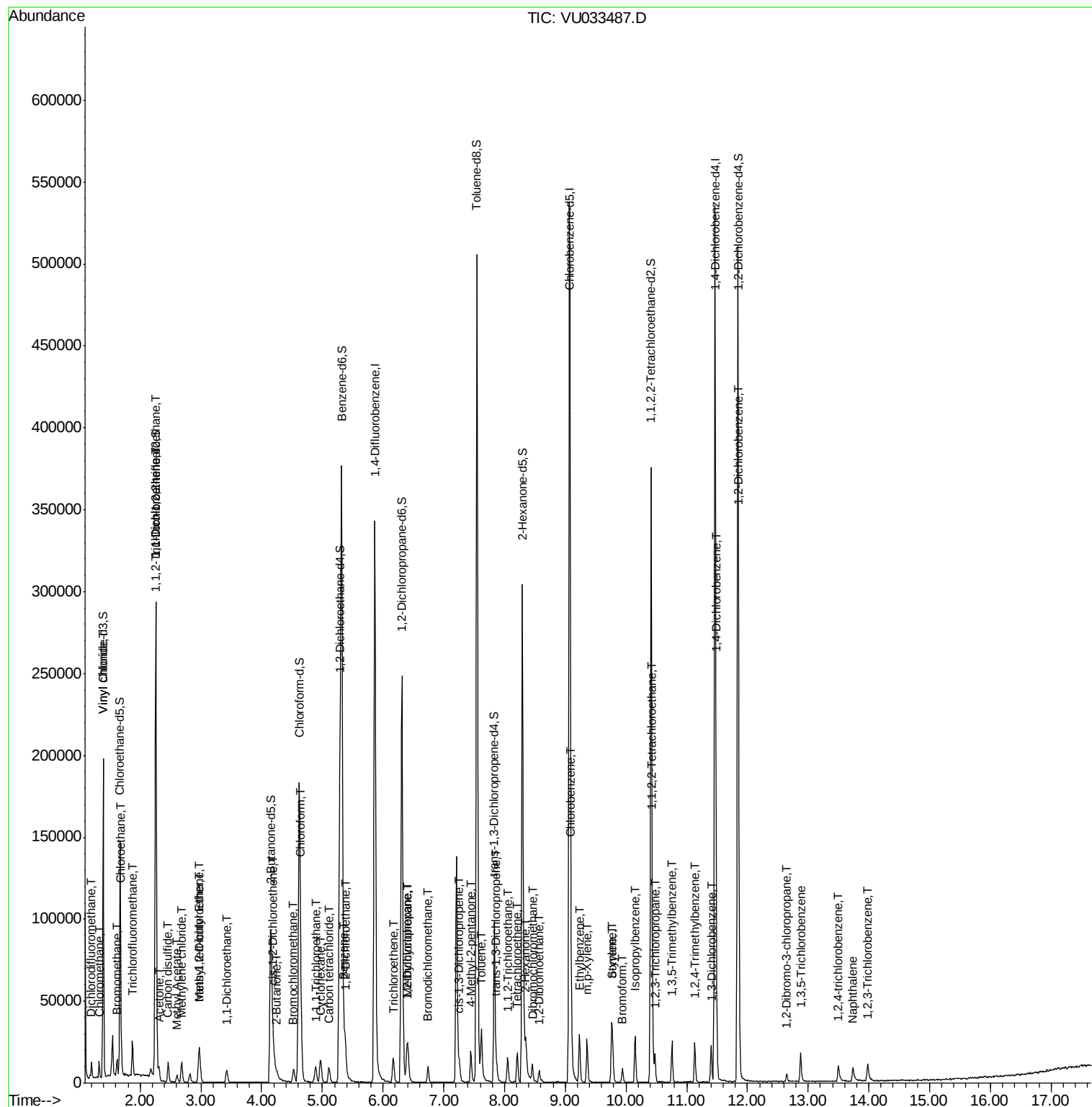
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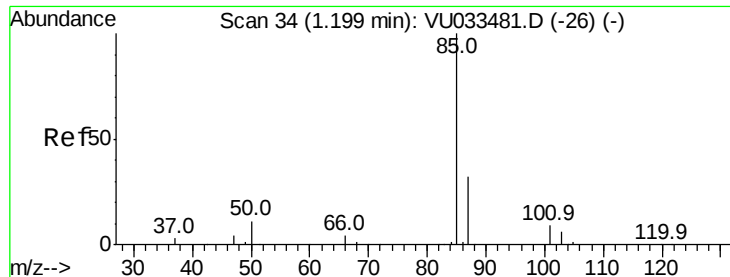
Instrument :
MSVOA_U
ClientSampleID :
MDL03

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#2

Dichlorodifluoromethane

Concen: 2.121 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033487.D

Acq: 30 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 85 Resp: 6265

Ion Ratio Lower Upper

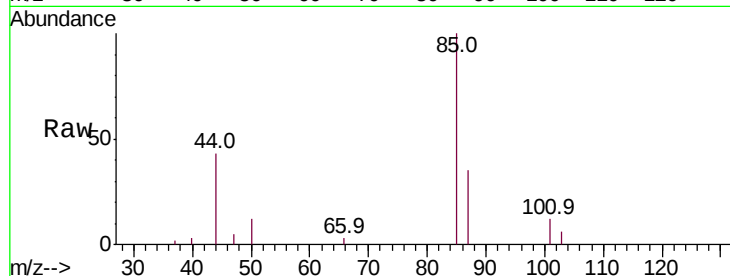
85 100

87 33.0 25.7 38.5

Manual Integrations
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Abundance Ion 85.00 (84.70 to 85.70): VU033487.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033487.D (-26) (-)

1.20

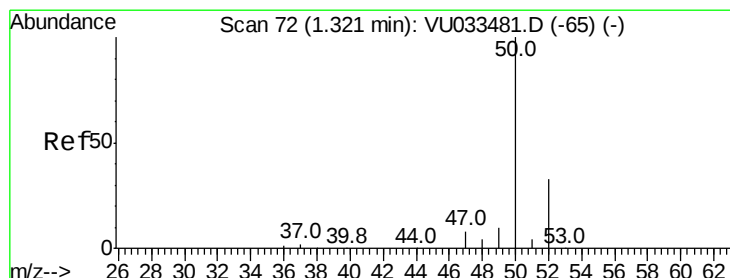
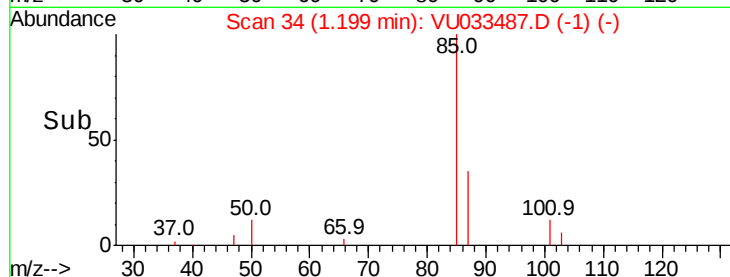
6000

4000

2000

0

Time-->



#3

Chloromethane

Concen: 2.280 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU033487.D

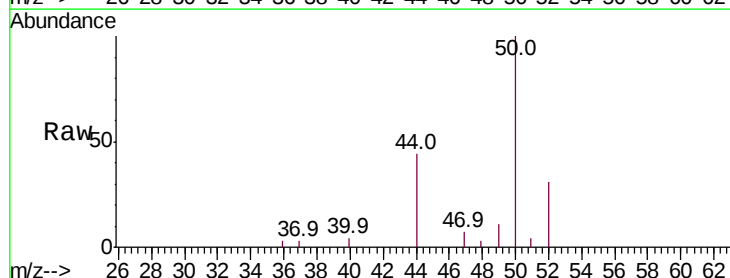
Acq: 30 Jul 2019 12:11

Tgt Ion: 50 Resp: 6723

Ion Ratio Lower Upper

50 100

52 30.7 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033487.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033487.D (-1) (-)

1.32

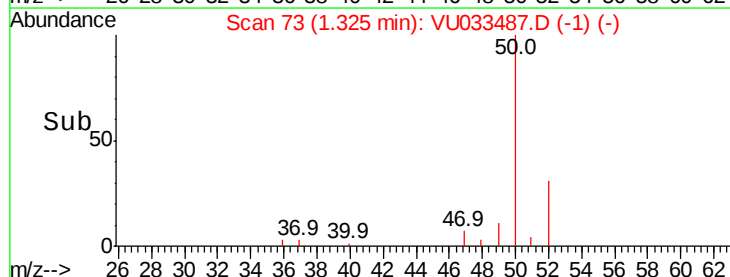
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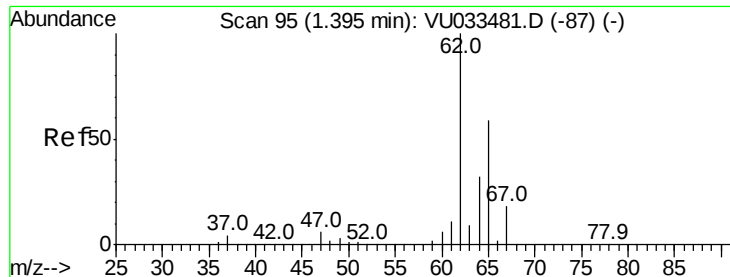
4000

2000

0

Time-->





#5

Vinyl chloride

Concen: 2.334 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033487.D

Acq: 30 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 62 Resp: 7873

Ion Ratio Lower Upper

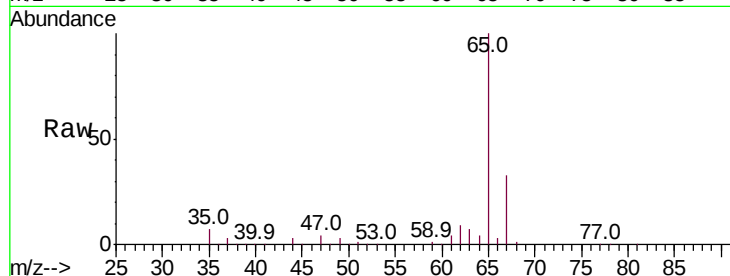
62 100

64 47.6 23.0 42.6#

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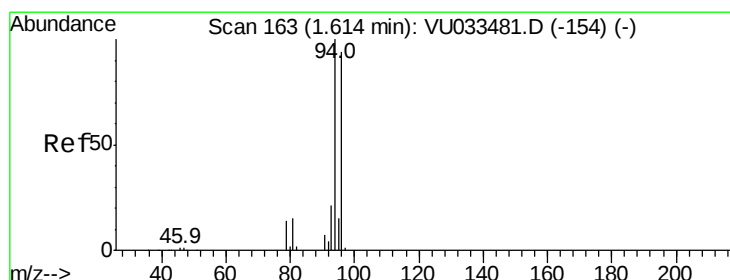
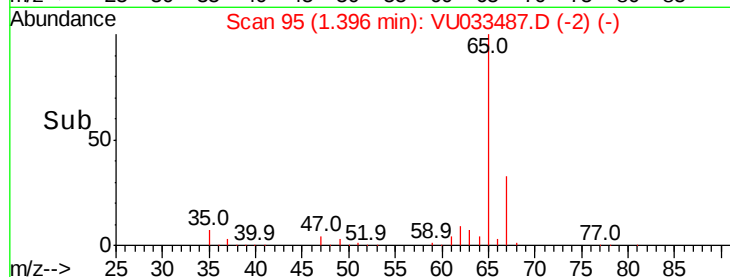
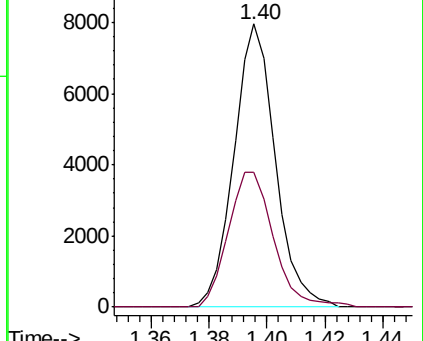
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Abundance Ion 62.00 (61.70 to 62.70): VU033487.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033487.D (-87) (-)



#6

Bromomethane

Concen: 2.065 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU033487.D

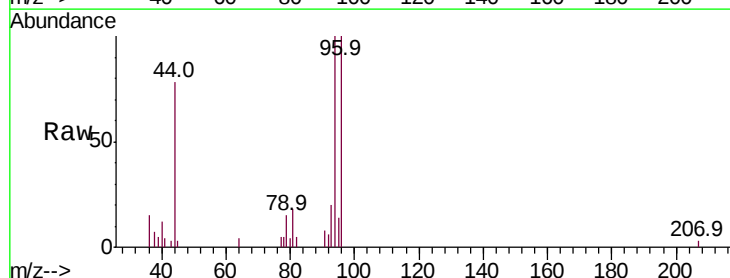
Acq: 30 Jul 2019 12:11

Tgt Ion: 94 Resp: 4868

Ion Ratio Lower Upper

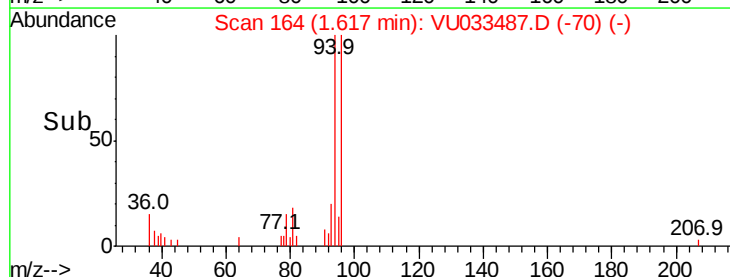
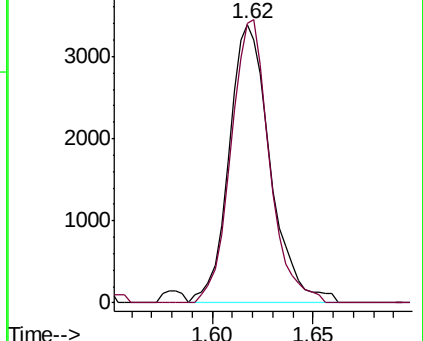
94 100

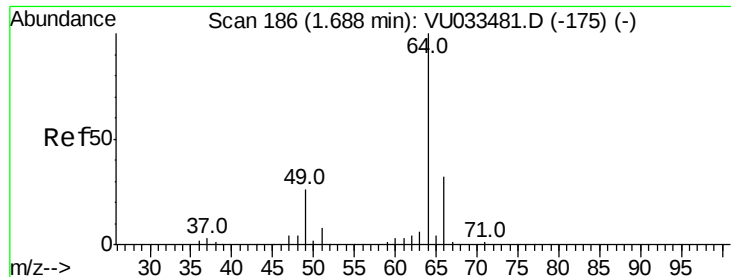
96 100.3 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VU033487.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU033487.D (-154) (-)





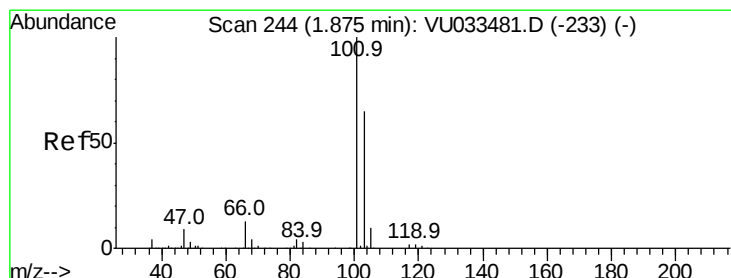
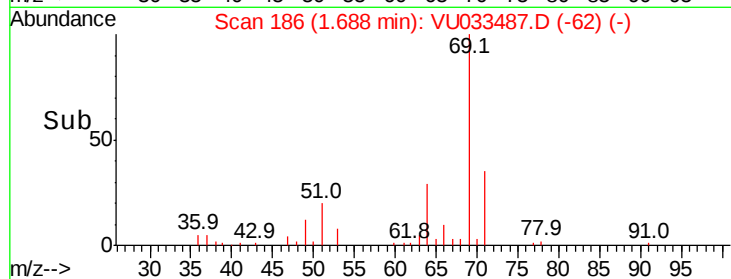
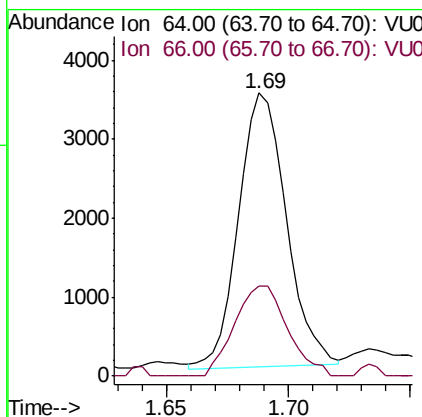
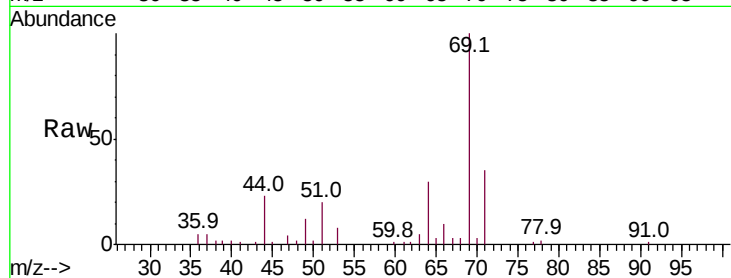
#8
Chloroethane
Concen: 2.287 ug/L
RT: 1.69 min Scan# 186
Delta R.T. 0.00 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
64	100		
66	31.9	22.1	41.1

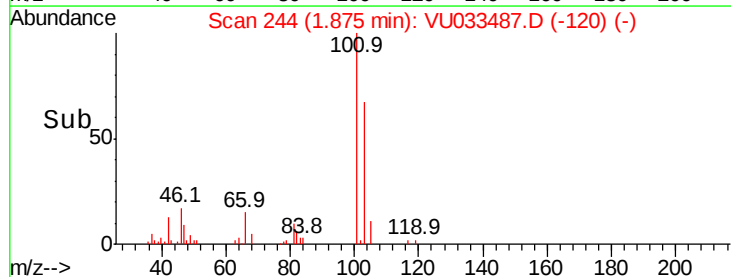
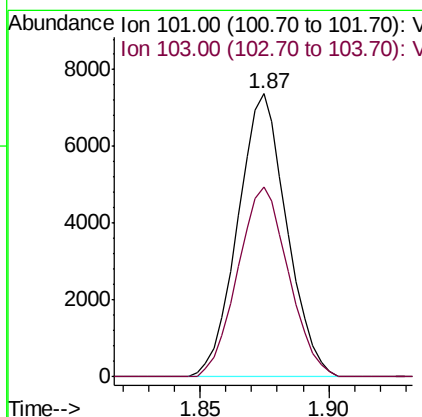
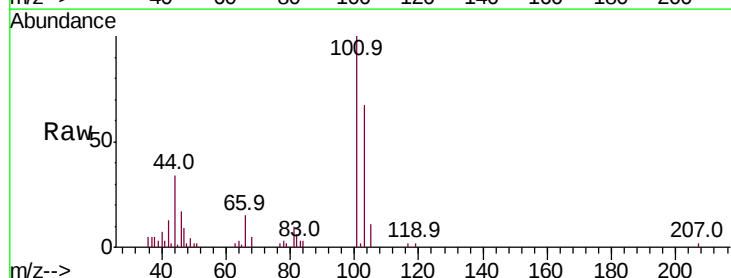
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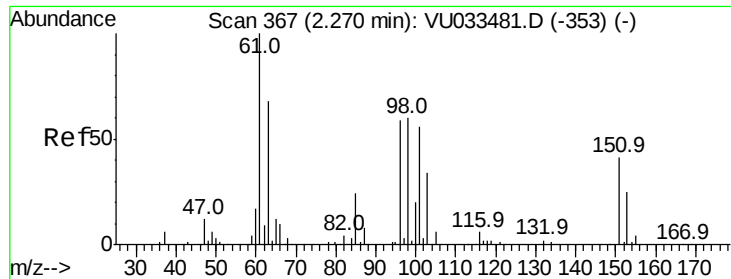
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#9
Trichlorofluoromethane
Concen: 2.211 ug/L
RT: 1.87 min Scan# 244
Delta R.T. 0.00 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Tgt Ion	Ratio	Lower	Upper
101	100		
103	69.5	51.2	76.8





#10

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

Concen: 2.776 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033487.D

Acq: 30 Jul 2019 12:11

Instrument :

MSVOA_U

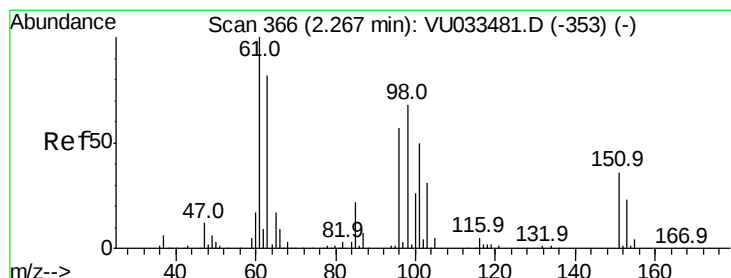
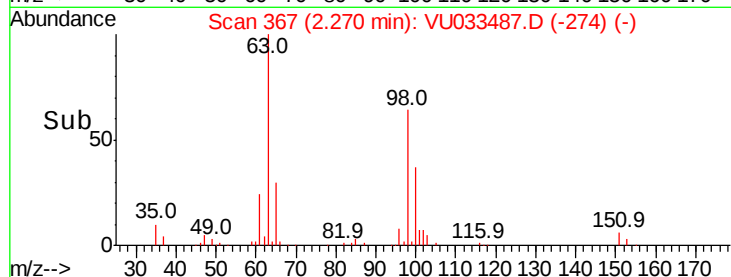
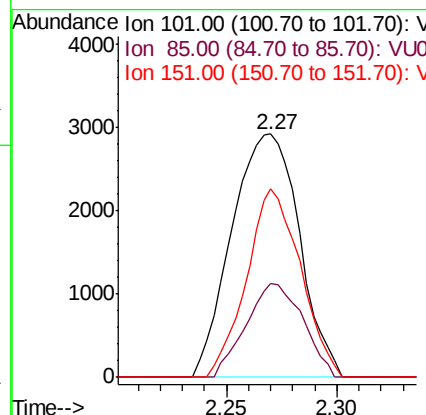
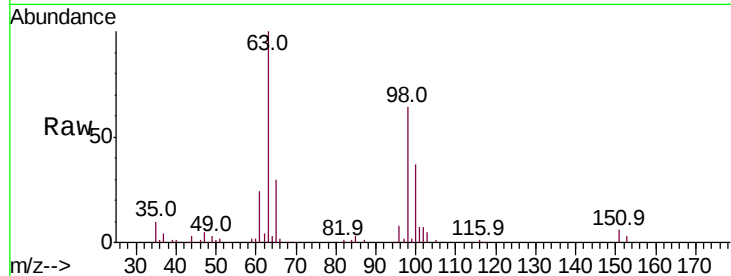
ClientSampled :

MDL03

Tot Ion:	101	Resp:	6170
Ion Ratio	Lower	Upper	
101	100		
85	32.5	35.8	53.8#
151	61.9	58.6	87.8

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#12

1,1-Dichloroethene

Concen: 2.747 ug/L

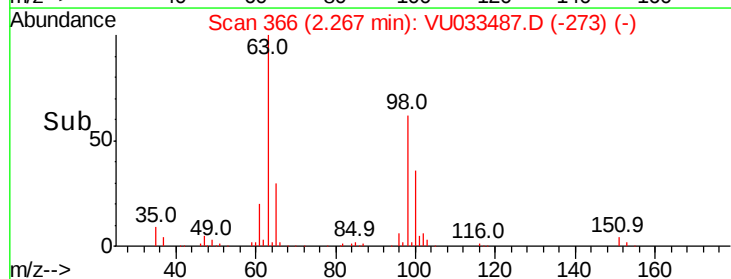
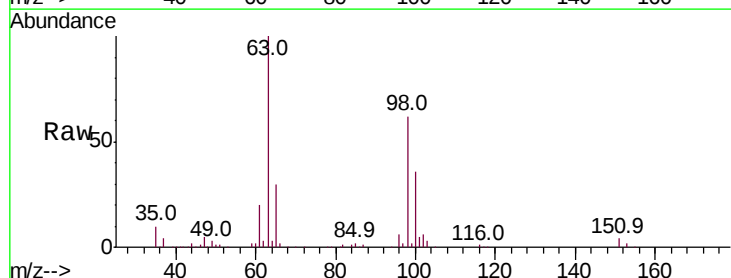
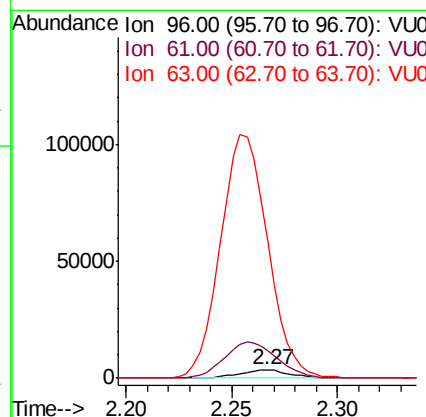
RT: 2.27 min Scan# 366

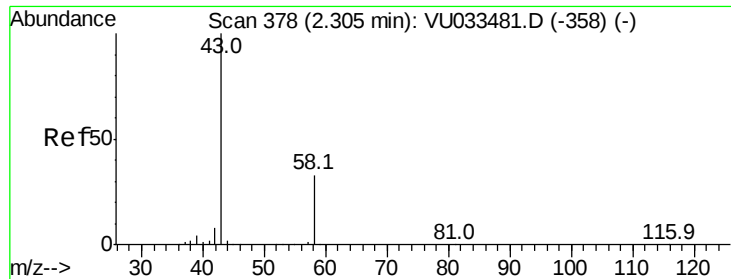
Delta R.T. 0.00 min

Lab File: VU033487.D

Acq: 30 Jul 2019 12:11

Tgt Ion:	96	Resp:	5950
Ion Ratio	Lower	Upper	
96	100		
61	323.3	124.1	230.5#
63	1603.5	101.8	189.2#





#13

Acetone

Concen: 4.867 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VU033487.D

Acq: 30 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 7430

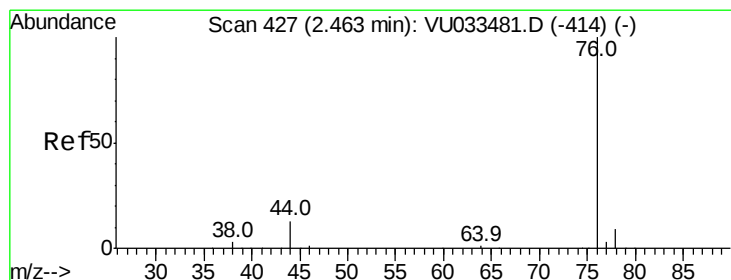
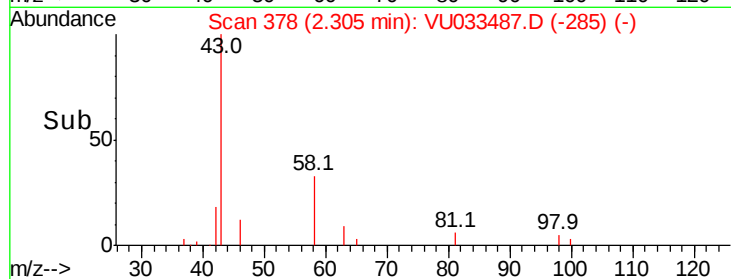
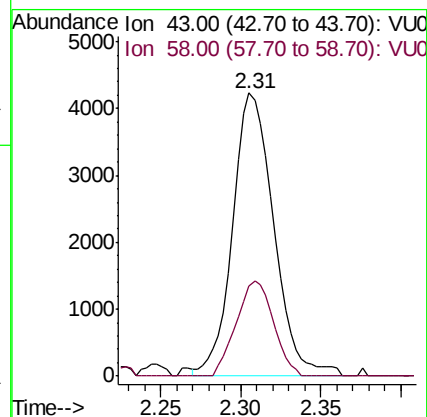
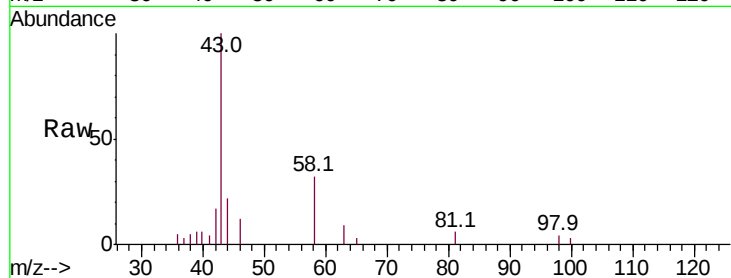
Ion Ratio Lower Upper

43 100

58 30.3 0.0 67.4

Manual Integrations
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#14

Carbon disulfide

Concen: 2.221 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033487.D

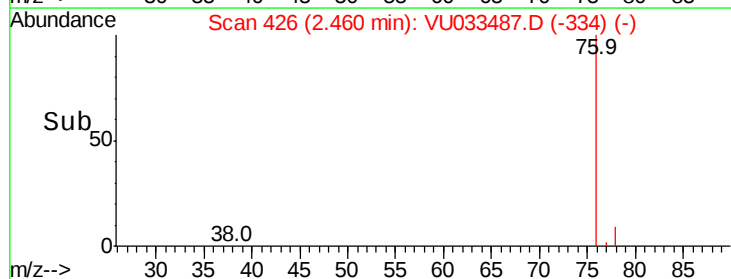
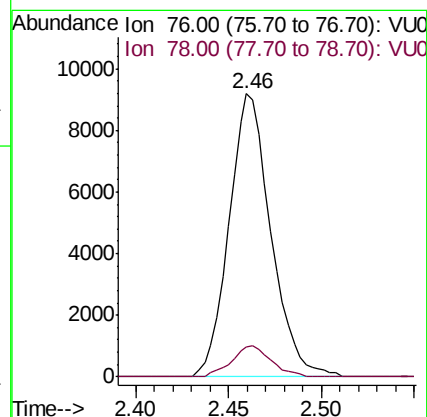
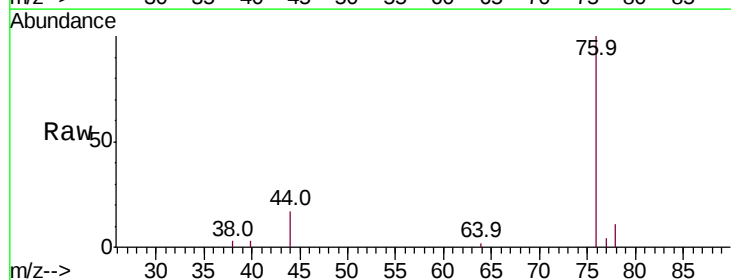
Acq: 30 Jul 2019 12:11

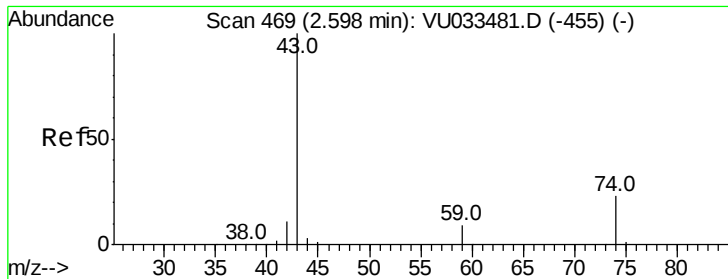
Tgt Ion: 76 Resp: 14336

Ion Ratio Lower Upper

76 100

78 10.8 7.2 10.8





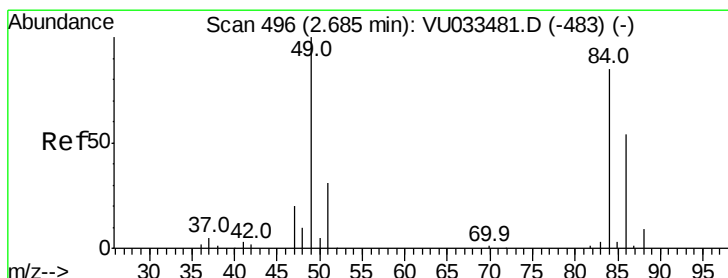
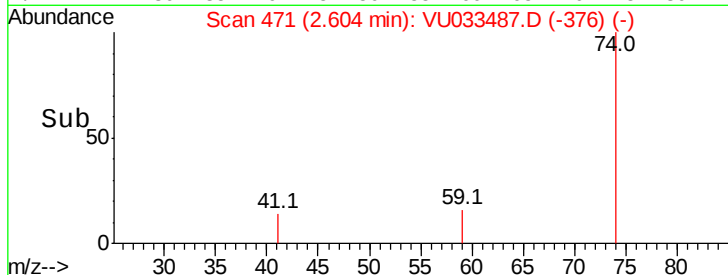
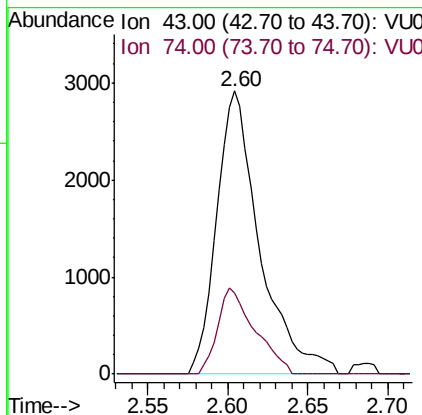
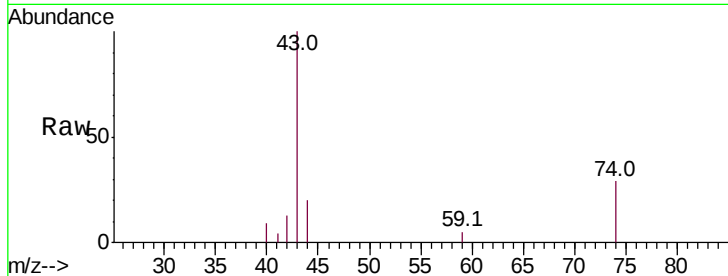
#15
Methvl Acetate
Concen: 2.198 ug/L
RT: 2.60 min Scan# 471
Delta R.T. 0.01 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion: 43 Resp: 5381
Ion Ratio Lower Upper
43 100
74 26.3 20.5 30.7

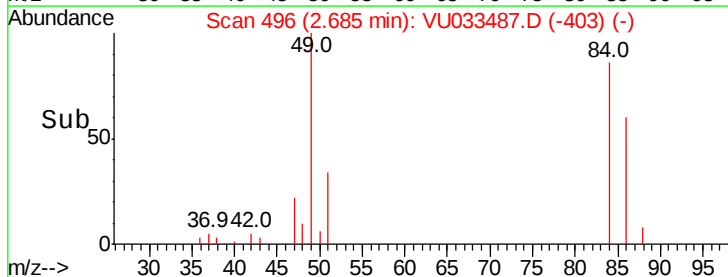
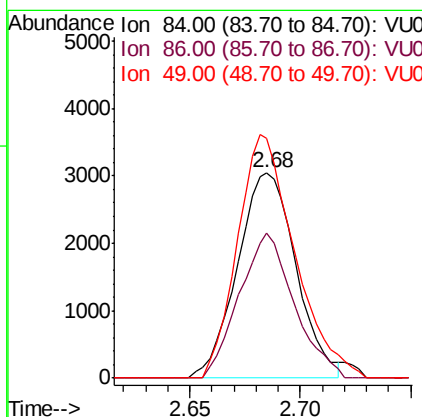
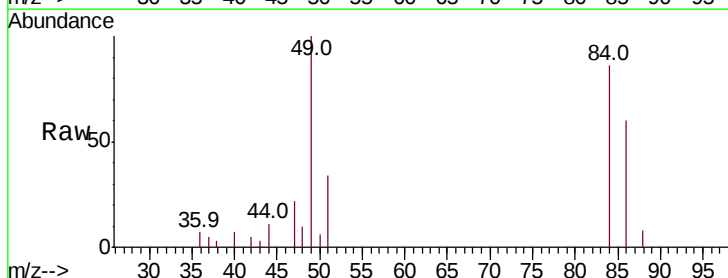
Manual Integrations
APPROVED

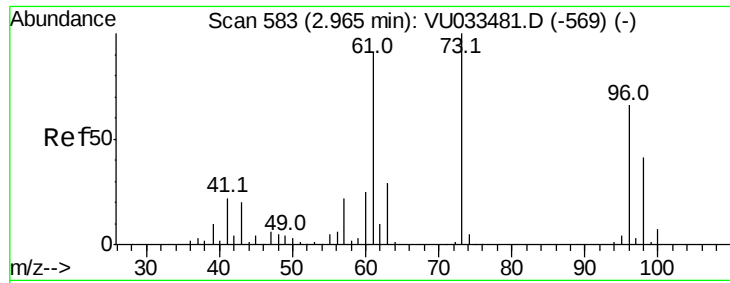
MMdadoda
8/1/2019 3:14:54 PM



#16
Methylene chloride
Concen: 2.351 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Tgt Ion: 84 Resp: 5595
Ion Ratio Lower Upper
84 100
86 70.5 44.2 82.0
49 116.7 82.3 152.8





#17

trans-1,2-Dichloroethene

Concen: 2.352 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033487.D

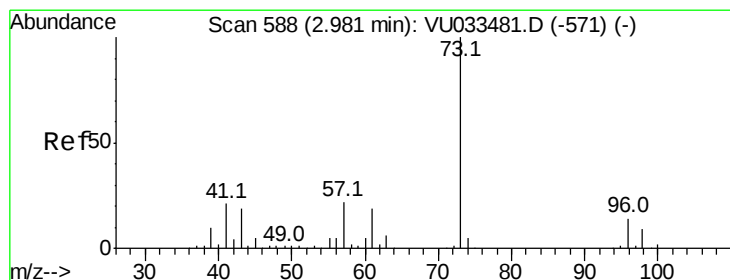
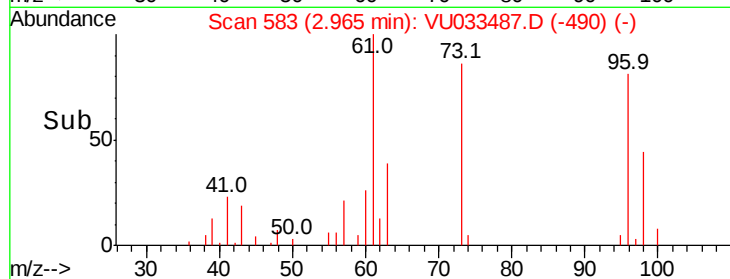
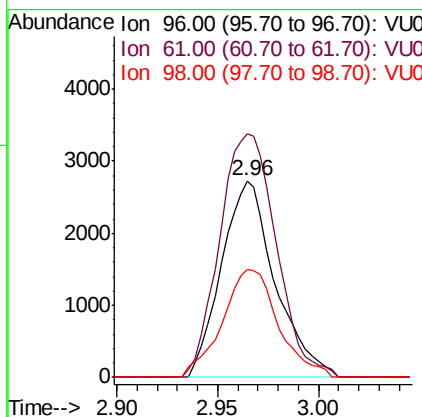
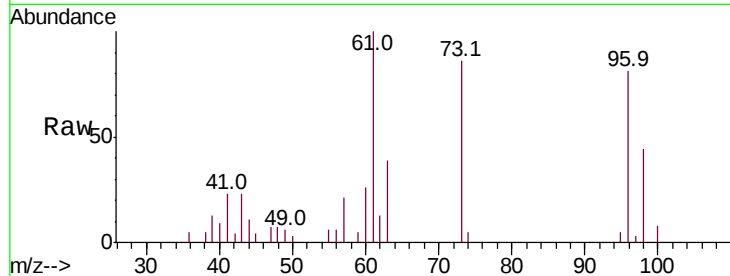
Acq: 30 Jul 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
96	100		
61	124.0	100.3	186.3
98	54.9	45.1	83.9

Manual Integrations
APPROVED

MMdadoda
8/1/2019 3:14:54 PM



#18

Methyl tert-butyl Ether

Concen: 2.041 ug/L

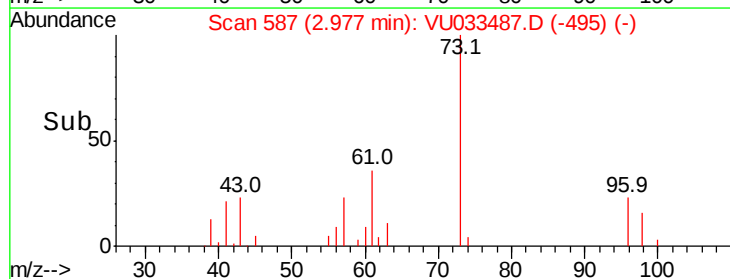
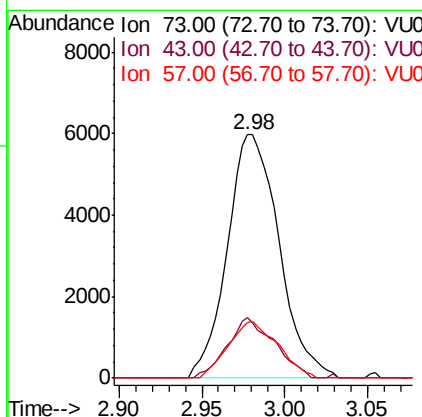
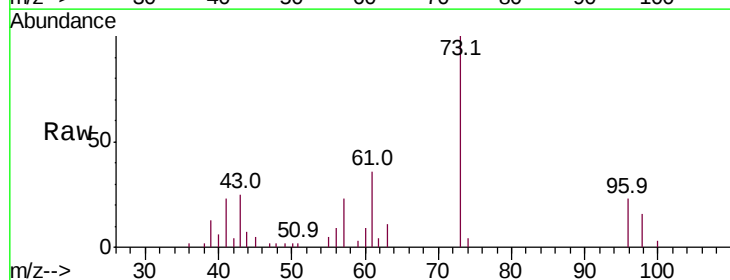
RT: 2.98 min Scan# 587

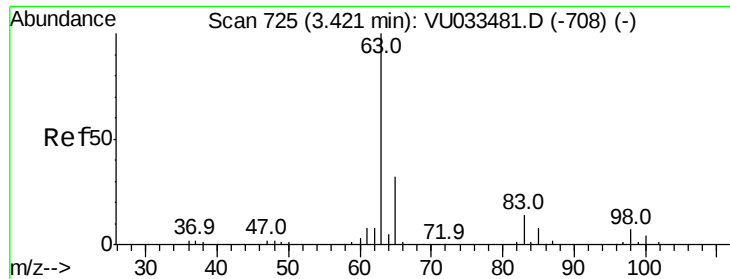
Delta R.T. -0.00 min

Lab File: VU033487.D

Acq: 30 Jul 2019 12:11

Tgt Ion	Ratio	Lower	Upper
73	100		
43	22.7	15.3	22.9
57	22.5	17.7	26.5





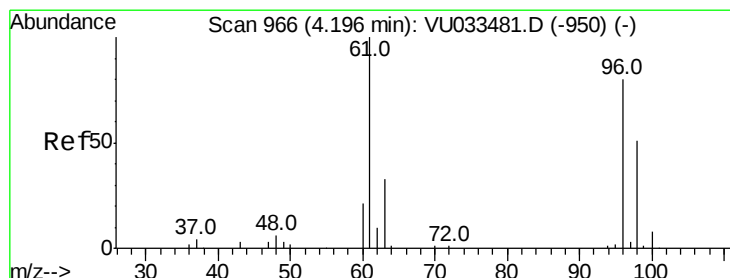
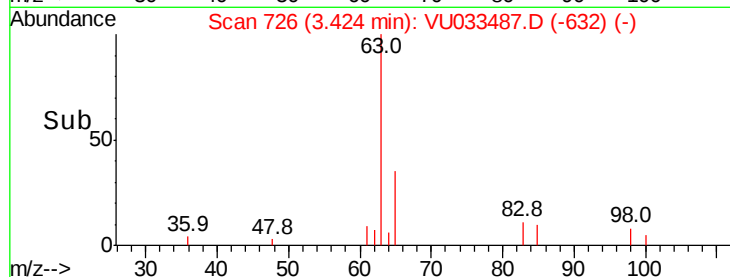
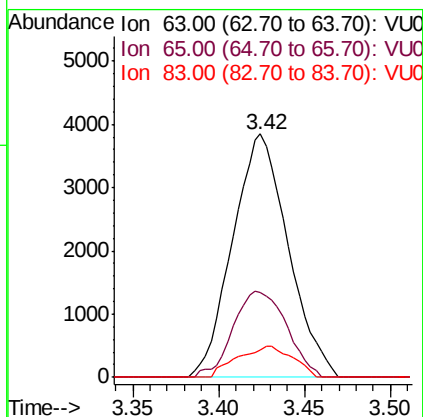
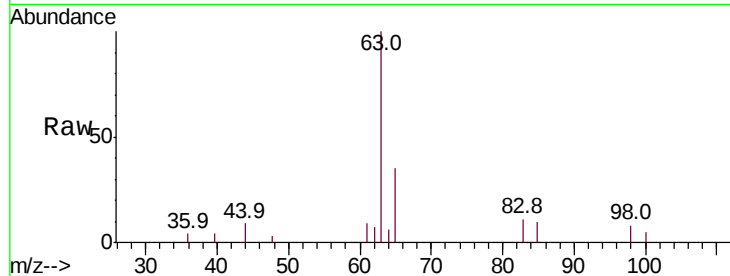
#19
 1,1-Dichloroethane
 Concen: 2.133 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
63	100		
65	34.7	22.7	42.1
83	11.4	9.4	17.6

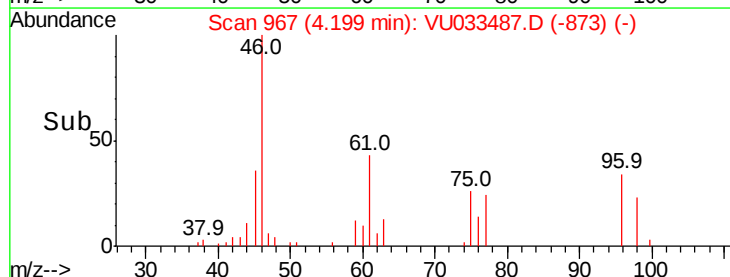
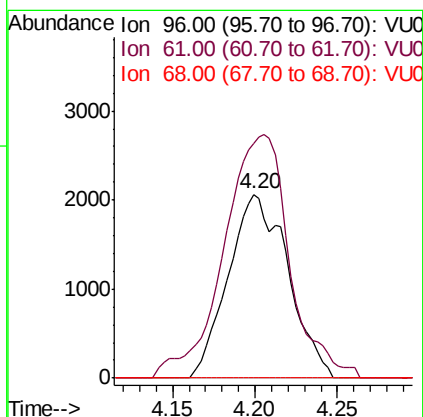
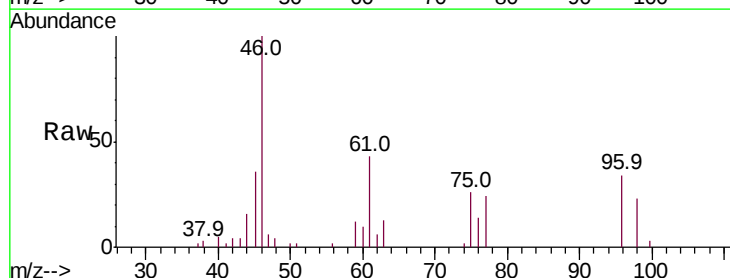
Manual Integrations
 APPROVED

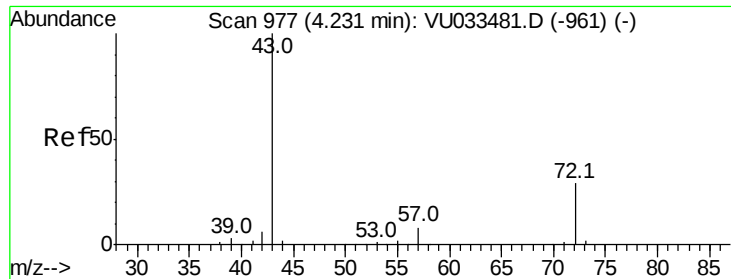
MMDadoda
 8/1/2019 3:14:54 PM



#20
 cis-1,2-Dichloroethene
 Concen: 2.194 ug/L m
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Tgt Ion	Ratio	Lower	Upper
96	100		
61	127.8	88.9	165.1
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.271 ug/L m

RT: 4.25 min Scan# 983

Delta R.T. 0.02 min

Lab File: VU033487.D

Acq: 30 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 43 Resp: 7747

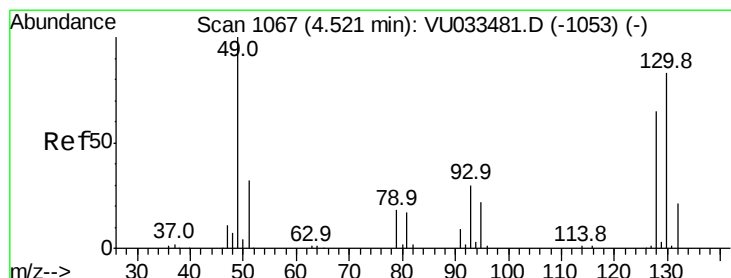
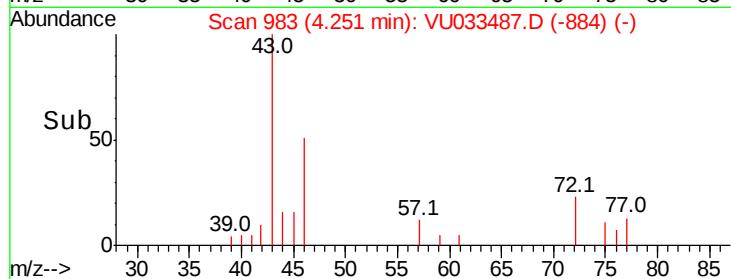
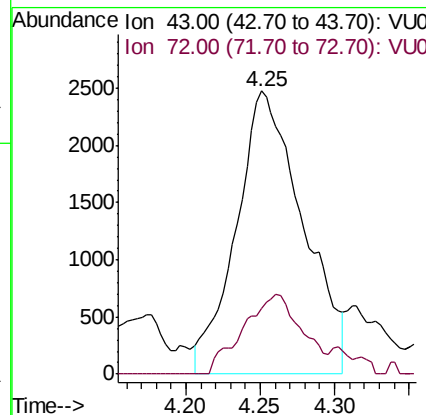
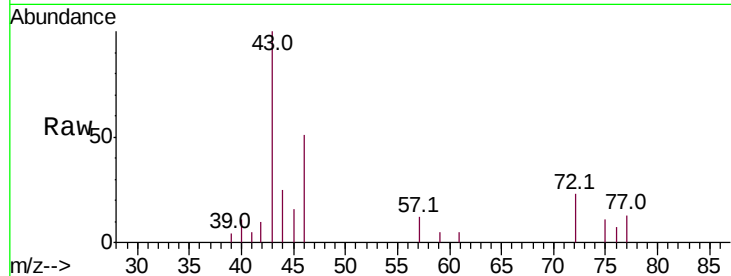
Ion Ratio Lower Upper

43 100

72 2.8 14.1 42.3#

Manual Integrations
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MMdadoda
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#23

Bromochloromethane

Concen: 2.136 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033487.D

Acq: 30 Jul 2019 12:11

Tgt Ion: 128 Resp: 2694

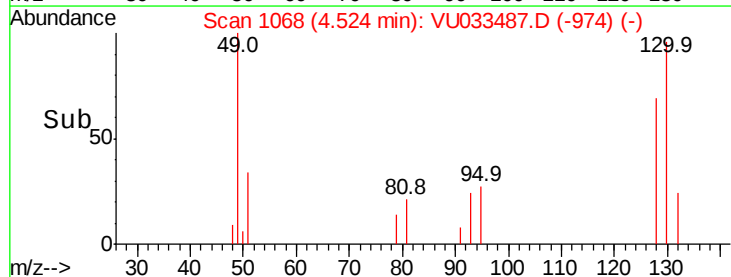
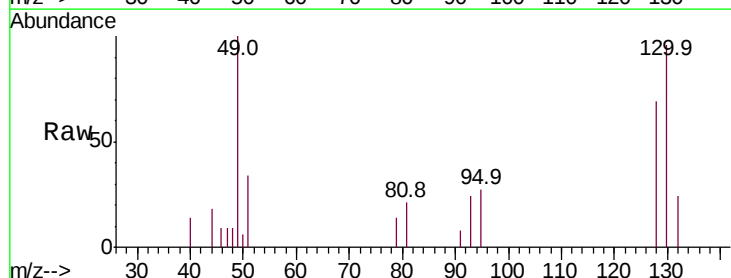
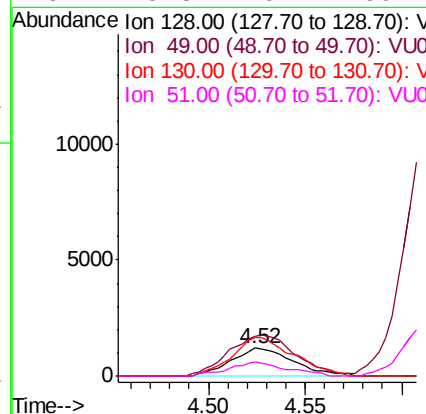
Ion Ratio Lower Upper

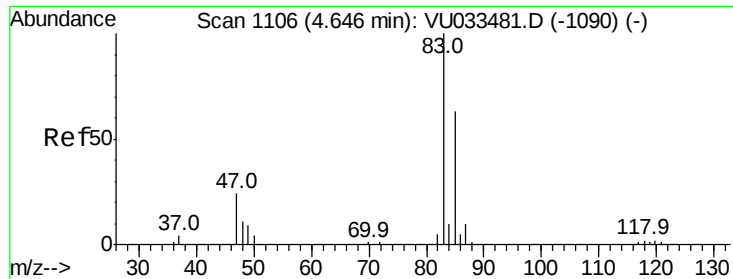
128 100

49 144.3 108.0 200.6

130 139.0 92.9 172.5

51 49.3 40.2 60.4





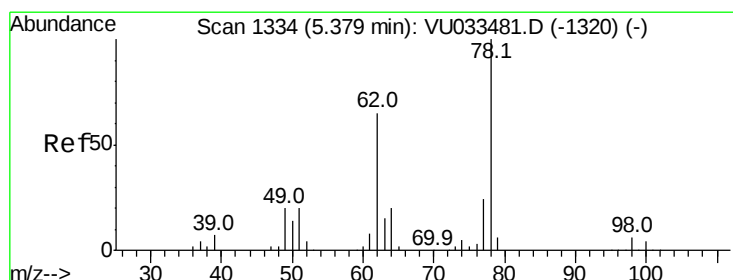
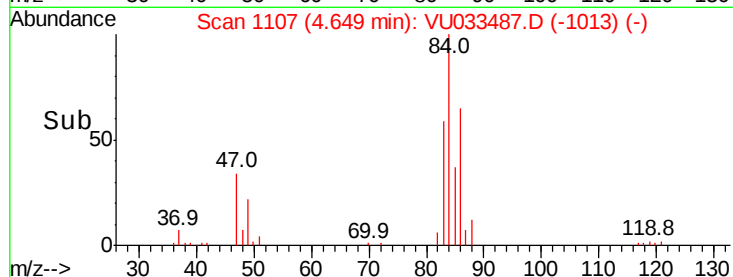
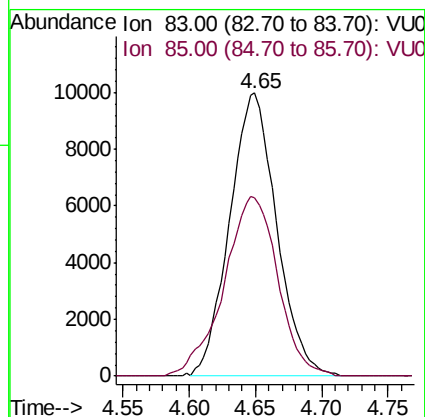
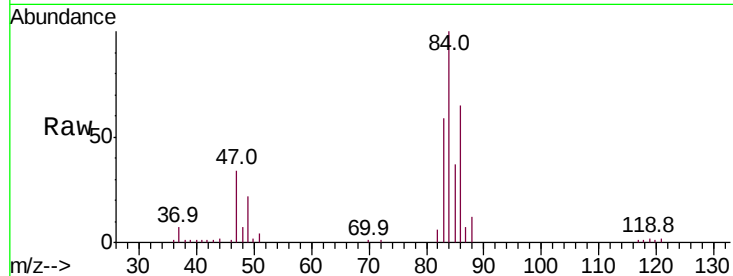
#25
Chloroform
Concen: 5.724 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion: 83 Resp: 24587
Ion Ratio Lower Upper
83 100
85 62.8 45.6 84.8

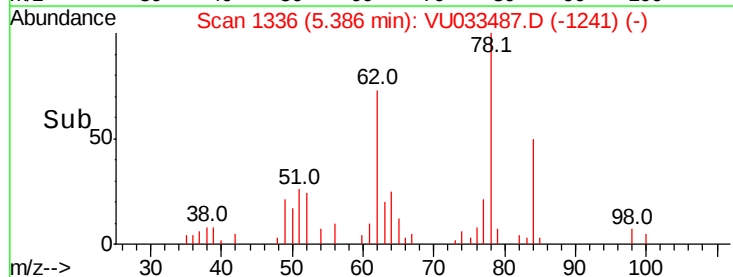
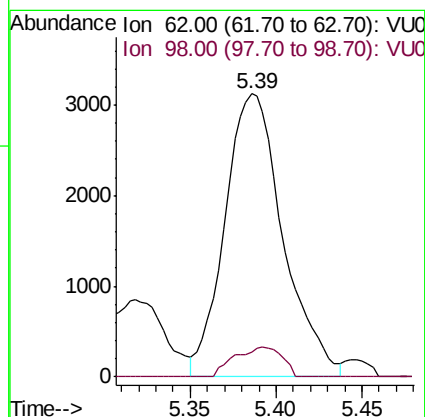
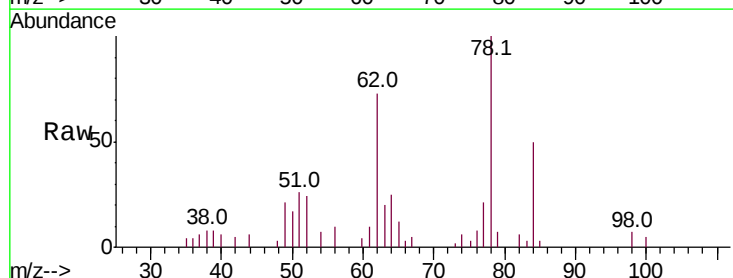
Manual Integrations
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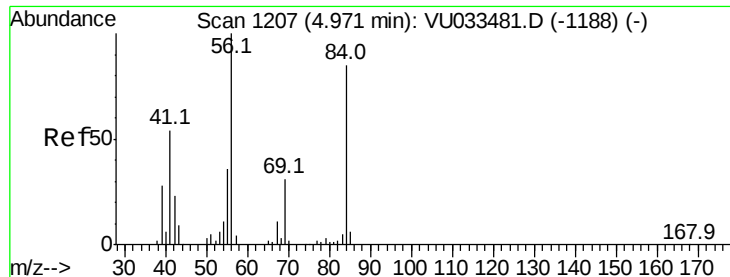
MMdadoda
8/1/2019 3:14:54 PM



#27
1,2-Dichloroethane
Concen: 2.207 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Tgt Ion: 62 Resp: 7362
Ion Ratio Lower Upper
62 100
98 8.9 6.7 10.1





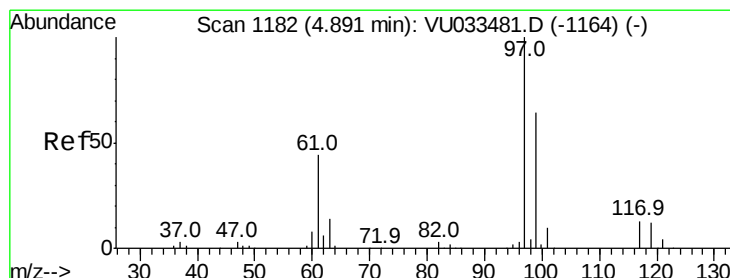
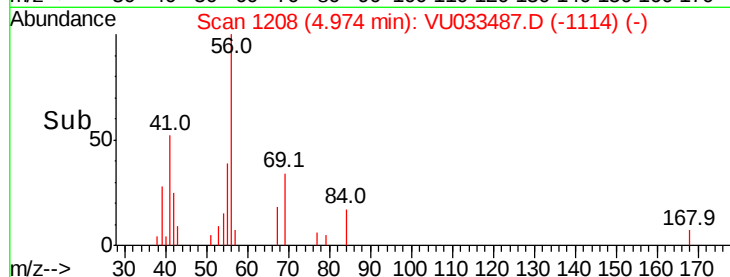
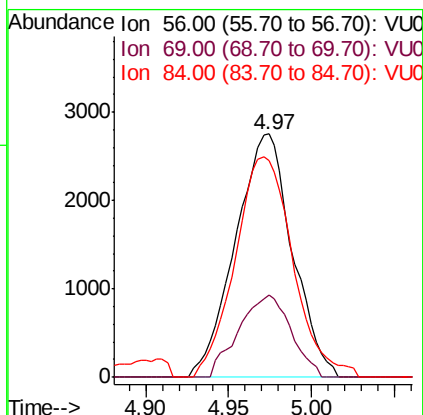
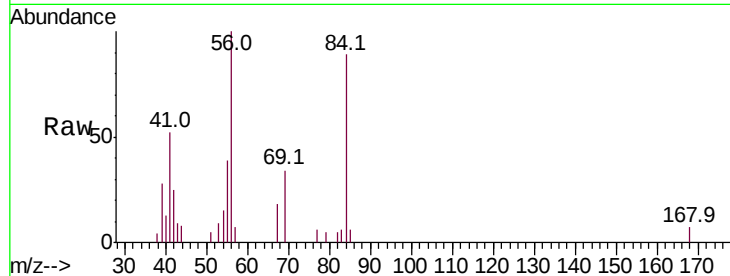
#29
Cyclohexane
Concen: 1.955 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.0	25.3	37.9
84	92.2	69.6	104.4

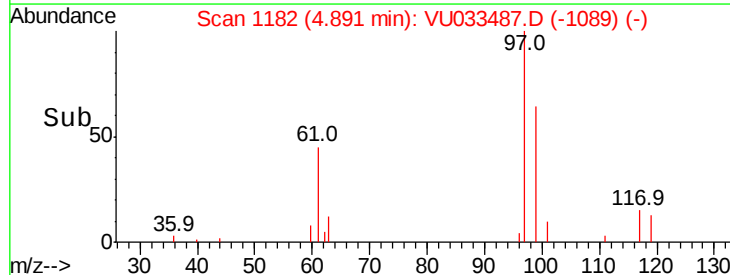
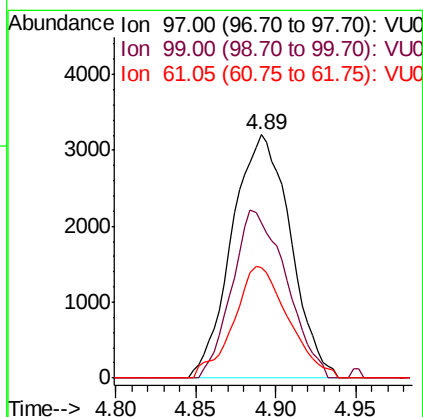
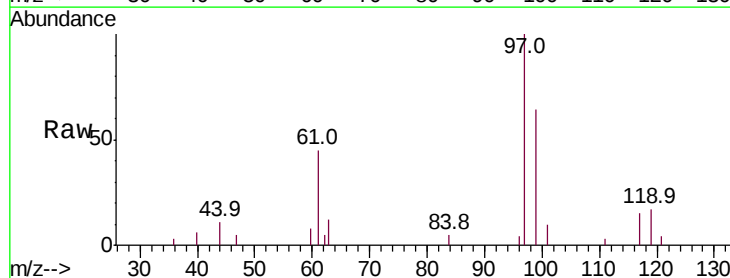
Manual Integrations
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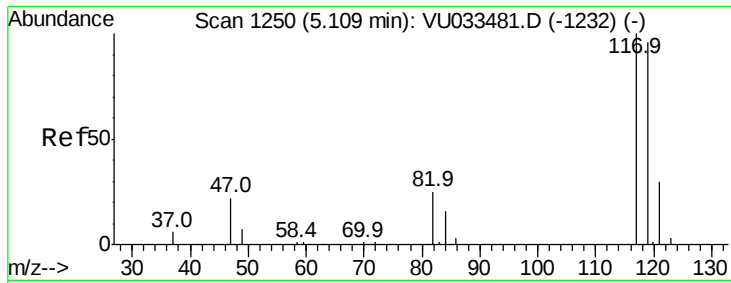
MMDadoda
8/1/2019 3:14:54 PM



#30
1,1,1-Trichloroethane
Concen: 2.204 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.8	77.6
61	42.9	36.2	54.2





#31

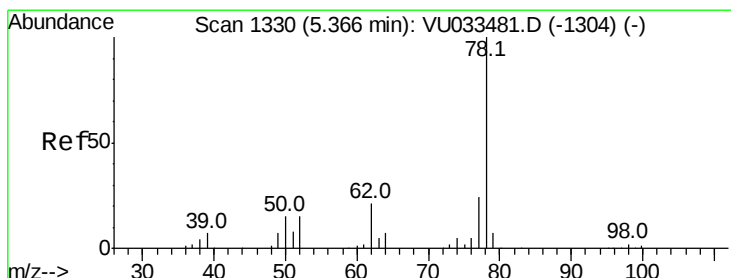
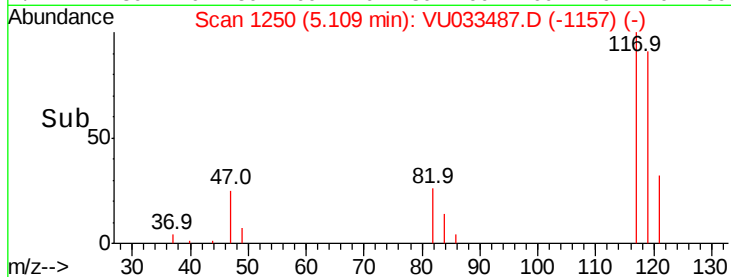
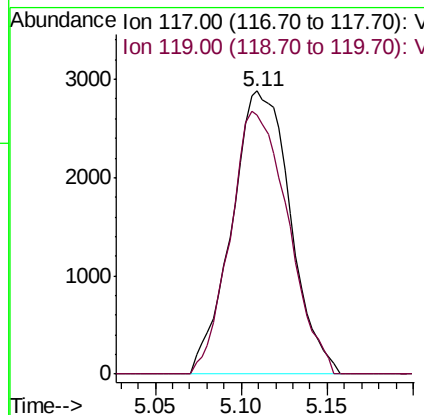
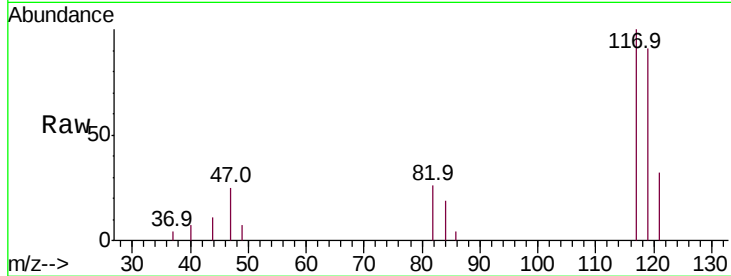
Carbon tetrachloride
Concen: 2.110 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion:117 Resp: 6849
Ion Ratio Lower Upper
117 100
119 91.4 76.8 115.2

Manual Integrations
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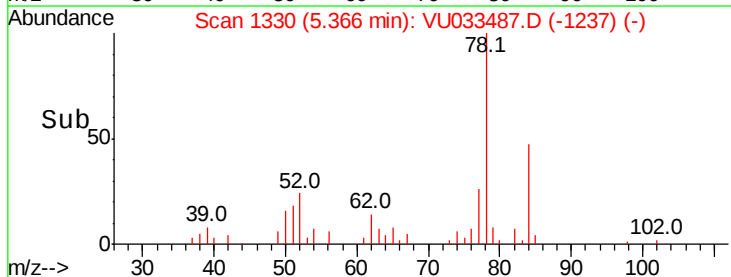
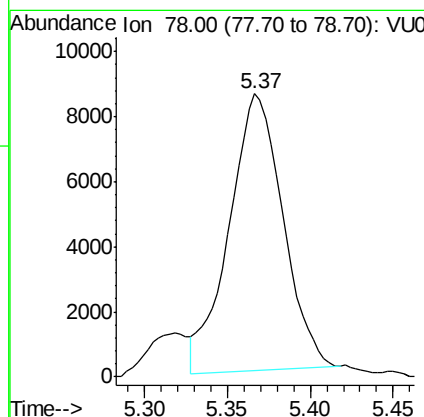
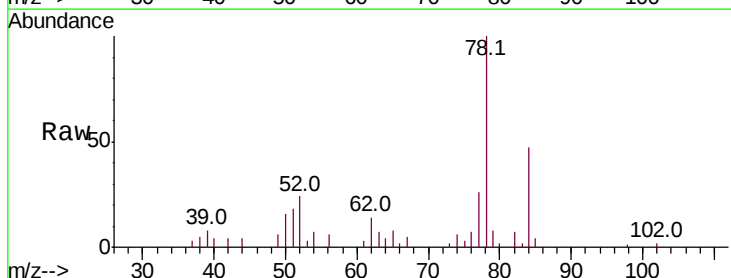
MMdadoda
8/1/2019 3:14:54 PM

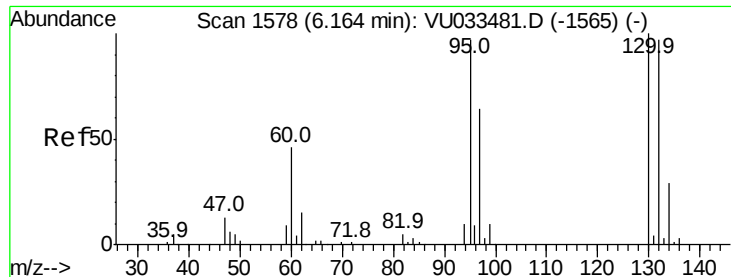


#33

Benzene
Concen: 2.089 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Tgt Ion: 78 Resp: 19126





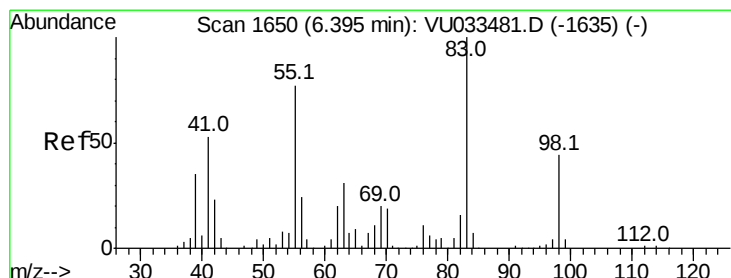
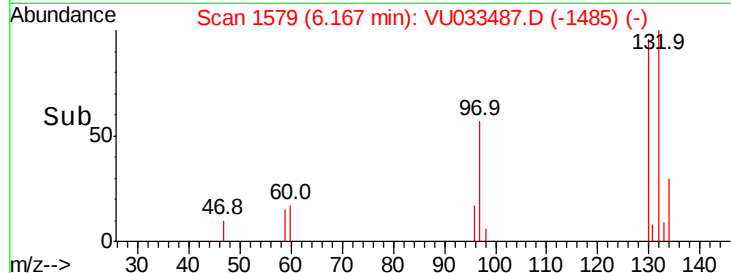
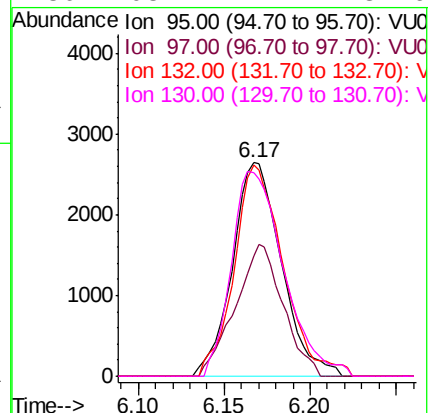
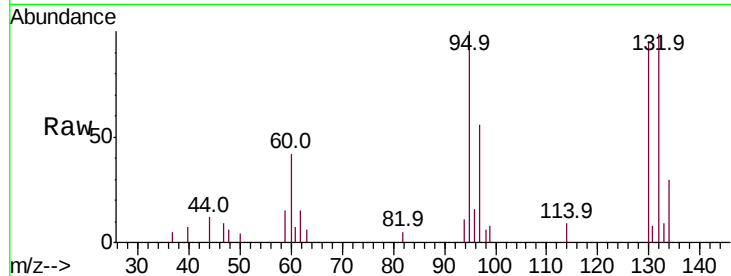
#34
 Trichloroethene
 Concen: 2.207 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion: 95 Resp: 5264
 Ion Ratio Lower Upper
 95 100
 97 56.2 45.4 84.2
 132 98.7 67.1 124.5
 130 103.1 71.4 132.6

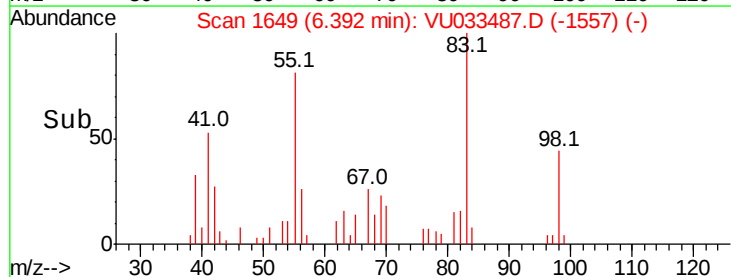
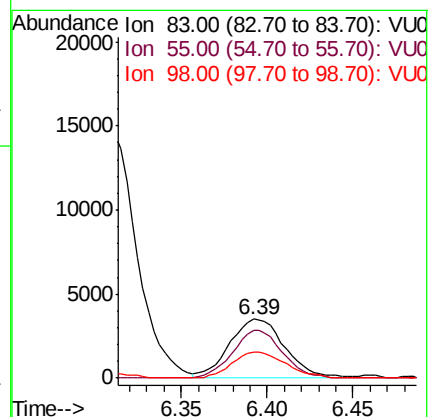
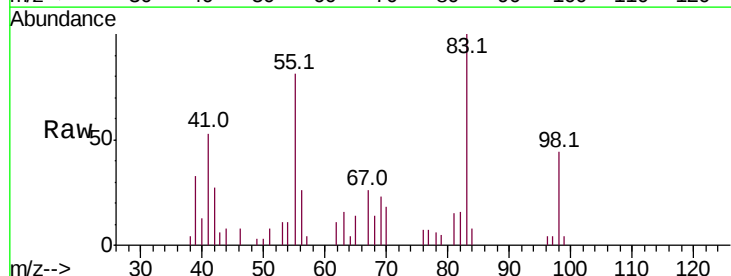
Manual Integrations
 APPROVED

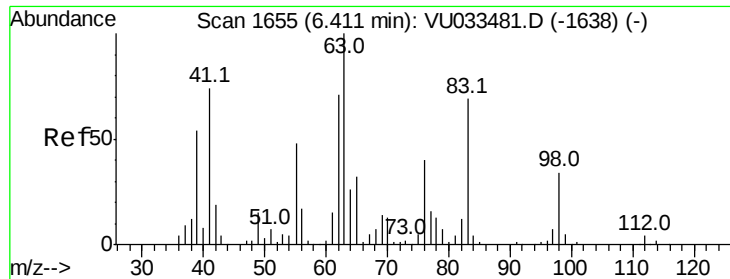
MMdadoda
 8/1/2019 3:14:54 PM



#35
 Methylcyclohexane
 Concen: 2.169 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Tgt Ion: 83 Resp: 7866
 Ion Ratio Lower Upper
 83 100
 55 72.9 62.4 93.6
 98 42.5 37.3 55.9





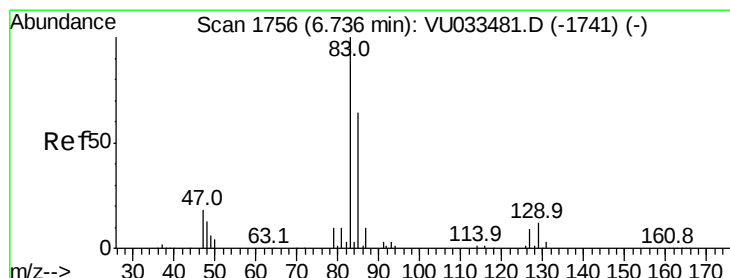
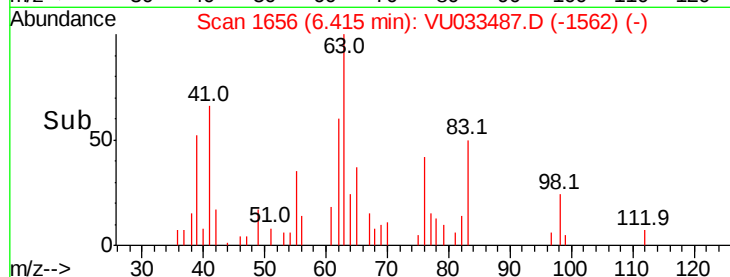
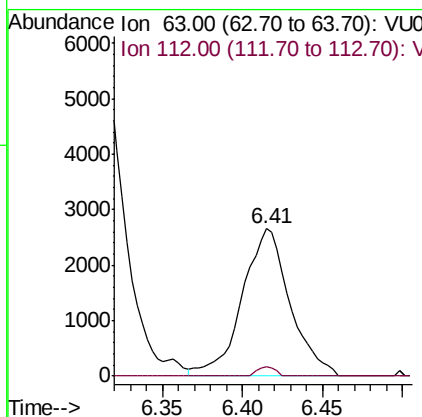
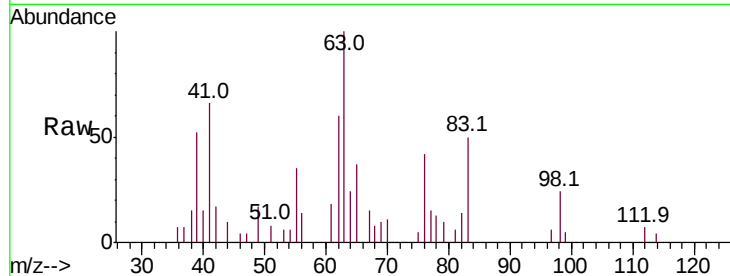
#37
 1,2-Dichloropropane
 Concen: 2.212 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion: 63 Resp: 5446
 Ion Ratio Lower Upper
 63 100
 112 2.5 3.1 4.7#

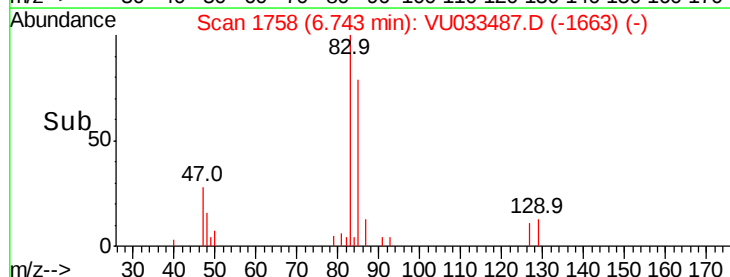
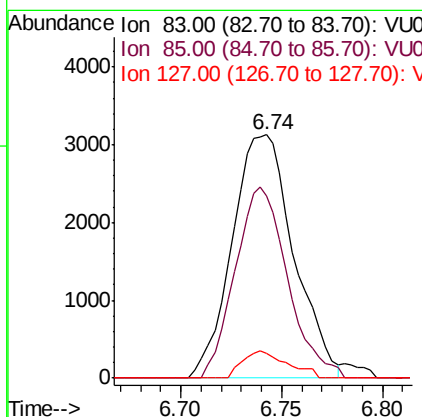
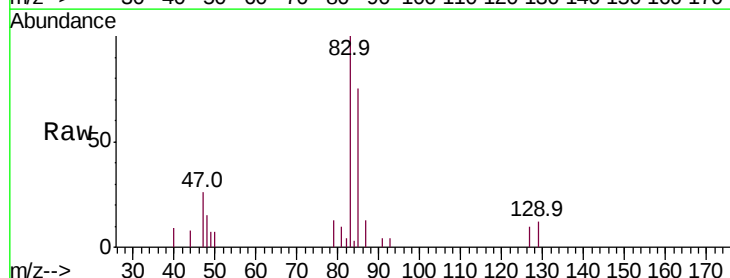
Manual Integrations
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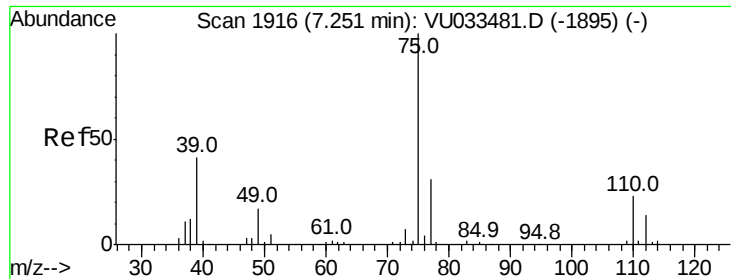
MMdadoda
 8/1/2019 3:14:54 PM



#38
 Bromodichloromethane
 Concen: 2.058 ug/L
 RT: 6.74 min Scan# 1758
 Delta R.T. 0.01 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Tgt Ion: 83 Resp: 6672
 Ion Ratio Lower Upper
 83 100
 85 75.0 45.4 84.4
 127 10.4 7.3 10.9





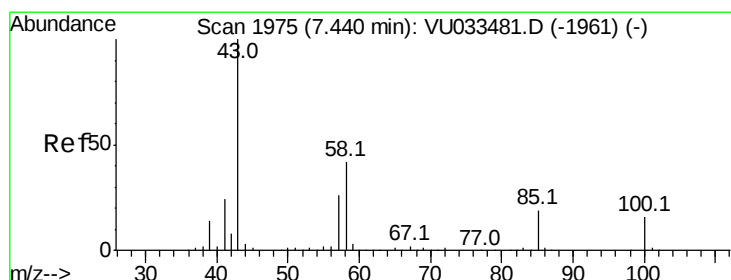
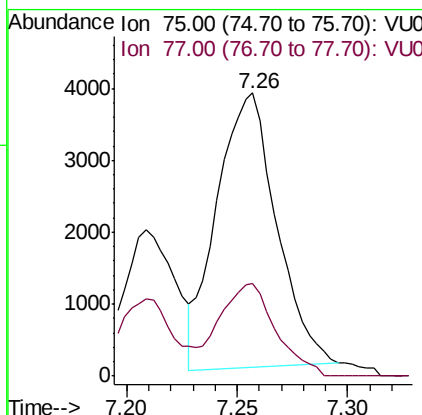
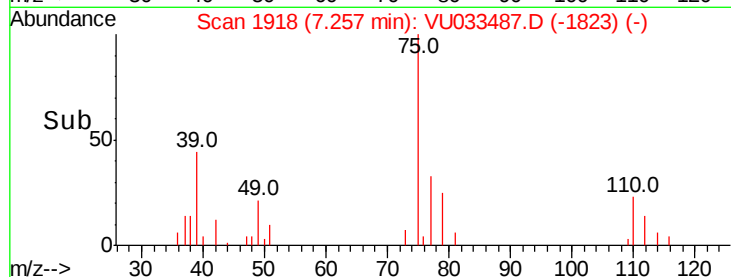
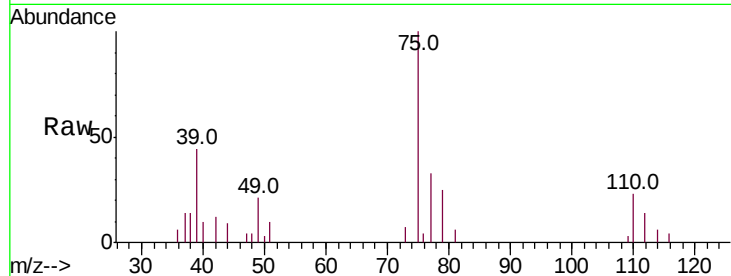
#39
 cis-1,3-Dichloropropene
 Concen: 1.959 ug/L
 RT: 7.26 min Scan# 1918
 Delta R.T. 0.01 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion: 75 Resp: 7191
 Ion Ratio Lower Upper
 75 100
 77 32.6 21.6 40.2

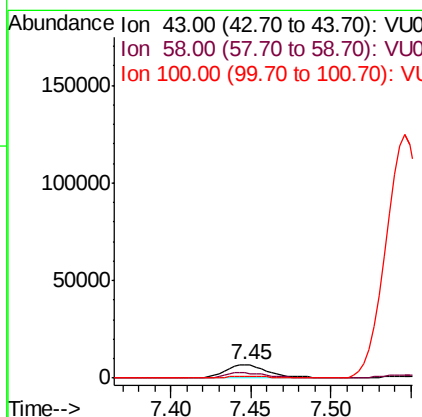
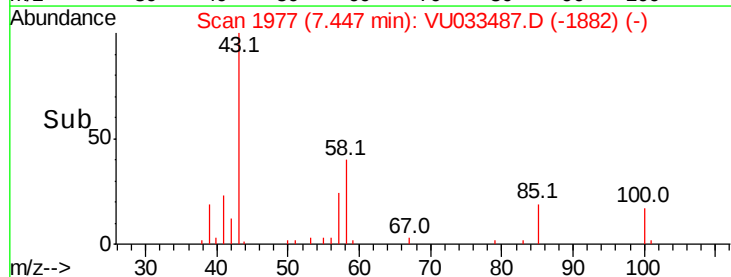
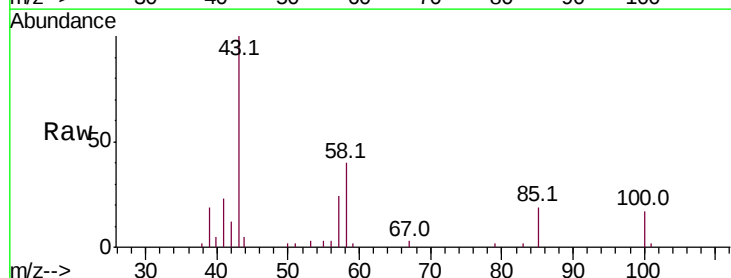
Manual Integrations
 APPROVED

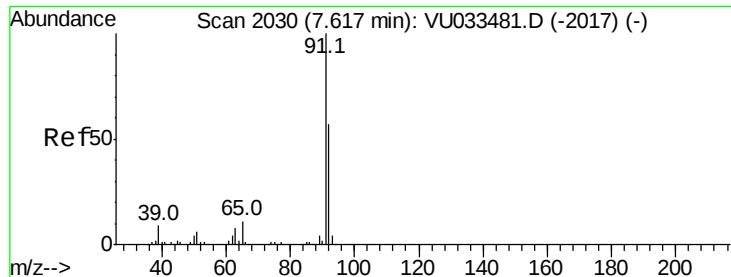
MMdadoda
 8/1/2019 3:14:54 PM



#40
 4-Methyl-2-pentanone
 Concen: 3.998 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Tgt Ion: 43 Resp: 12972
 Ion Ratio Lower Upper
 43 100
 58 40.5 33.4 50.2
 100 14.1 12.3 18.5





#42

Toluene

Concen: 2.233 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033487.D

Acq: 30 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 91 Resp: 21995

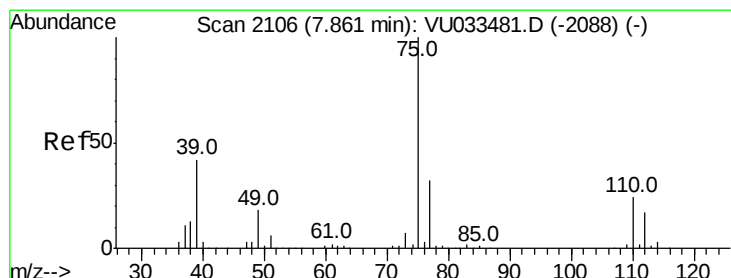
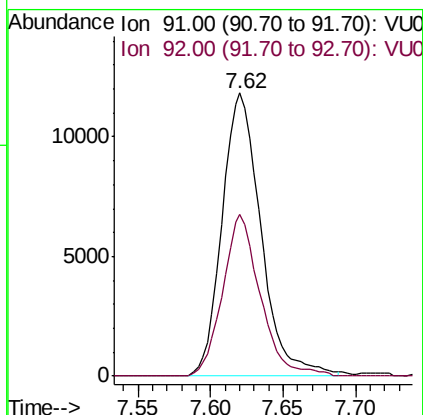
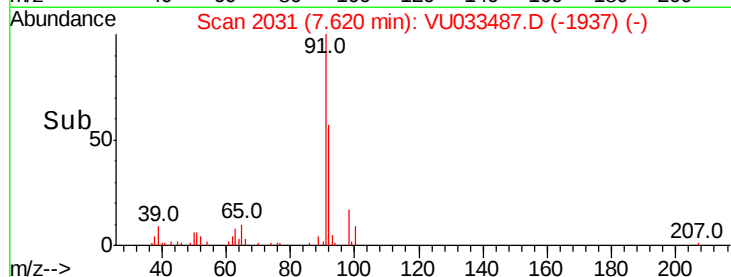
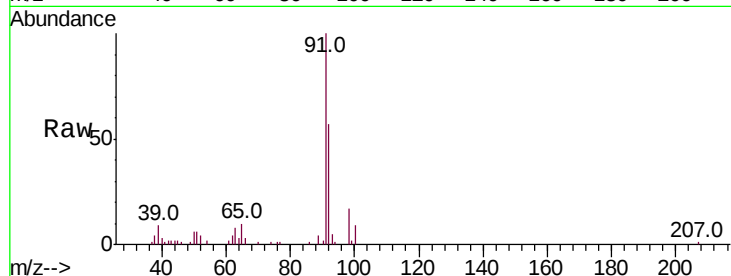
Ion Ratio Lower Upper

91 100

92 57.2 40.1 74.5

Manual Integrations
APPROVED

MMdadoda
8/1/2019 3:14:54 PM



#44

trans-1,3-Dichloropropene

Concen: 2.091 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033487.D

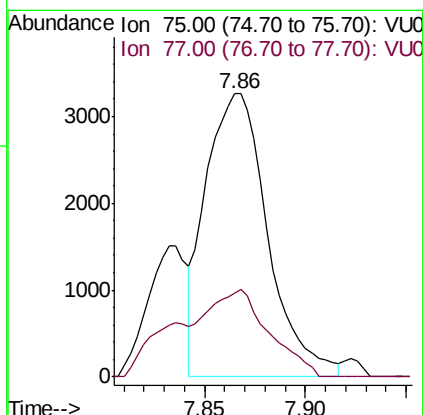
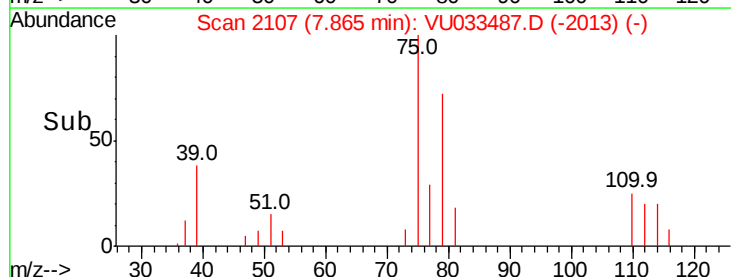
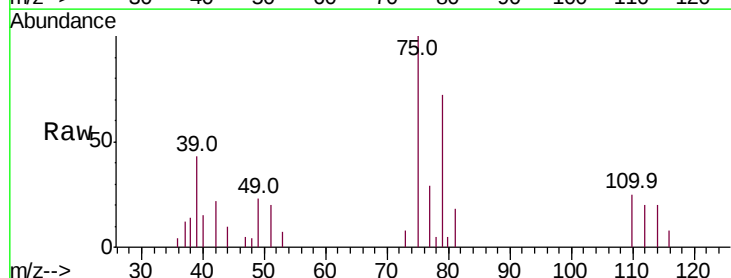
Acq: 30 Jul 2019 12:11

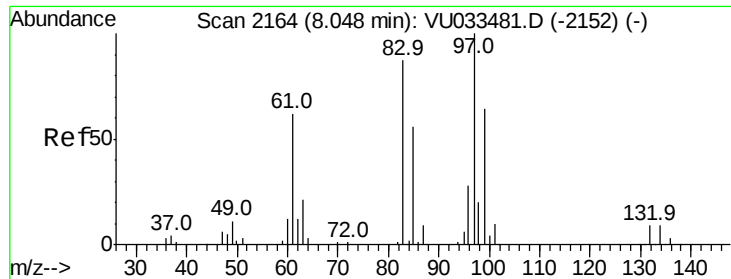
Tgt Ion: 75 Resp: 6967

Ion Ratio Lower Upper

75 100

77 29.3 22.3 41.5





#45

1,1,2-Trichloroethane

Concen: 2.123 ug/L

RT: 8.05 min Scan# 2166

Delta R.T. 0.01 min

Lab File: VU033487.D

Acq: 30 Jul 2019 12:11

Instrument :

MSVOA_U

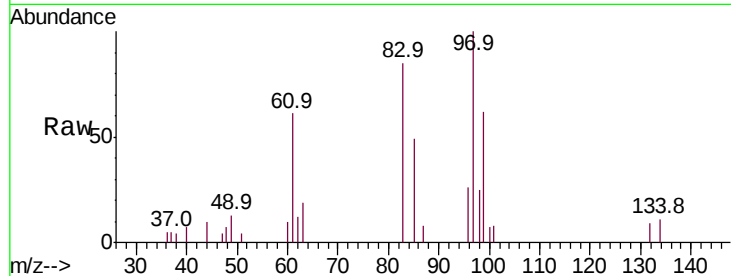
ClientSampleId :

MDL03

Tot Ion:	97	Resp:	4986
Ion	Ratio	Lower	Upper
97	100		
99	61.8	43.3	80.5
83	85.2	61.3	113.9
85	49.0	41.0	76.2

Manual Integrations
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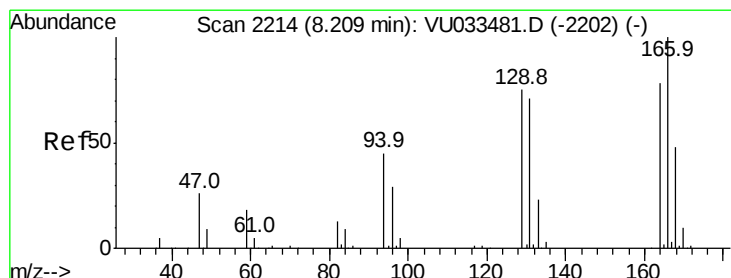
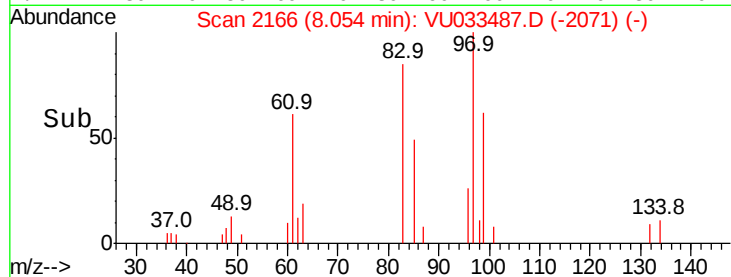
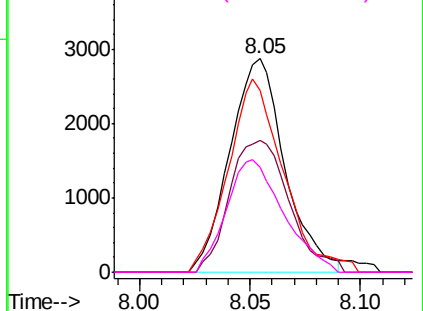
Abundance

Ion 97.00 (96.70 to 97.70): VU033487.D (-2152) (-)

Ion 99.00 (98.70 to 99.70): VU033487.D (-2152) (-)

Ion 83.00 (82.70 to 83.70): VU033487.D (-2152) (-)

Ion 85.00 (84.70 to 85.70): VU033487.D (-2152) (-)



#46

Tetrachloroethene

Concen: 2.071 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033487.D

Acq: 30 Jul 2019 12:11

Tgt Ion:	164	Resp:	4020
Ion	Ratio	Lower	Upper
164	100		
129	99.0	66.6	123.8
131	93.2	63.9	118.7
166	132.7	90.5	168.1

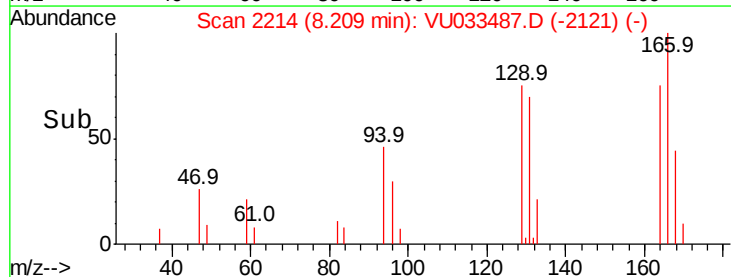
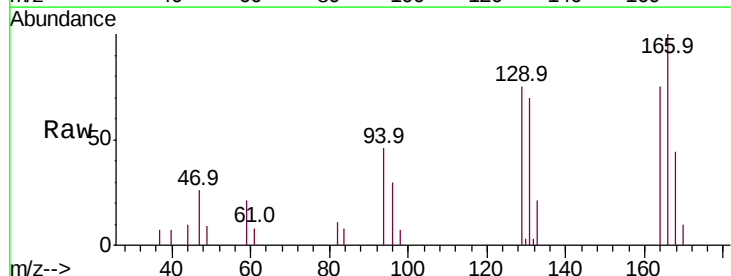
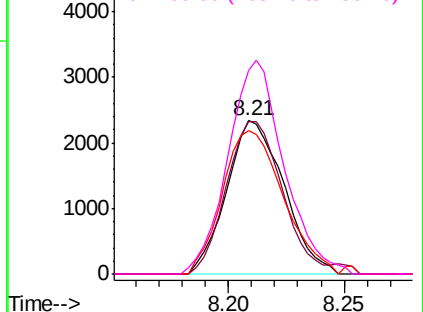
Abundance

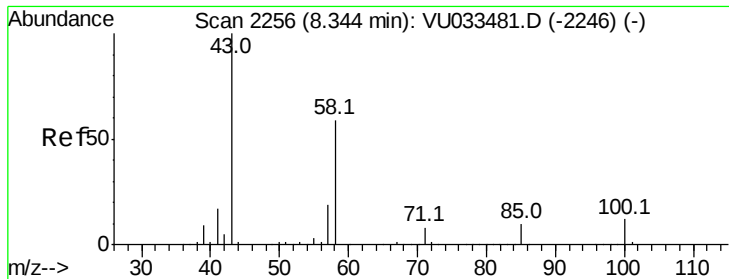
Ion 164.00 (163.70 to 164.70): VU033487.D (-2214) (-)

Ion 129.00 (128.70 to 129.70): VU033487.D (-2214) (-)

Ion 131.00 (130.70 to 131.70): VU033487.D (-2214) (-)

Ion 166.00 (165.70 to 166.70): VU033487.D (-2214) (-)





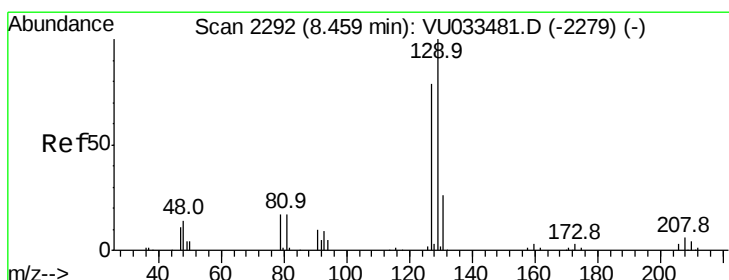
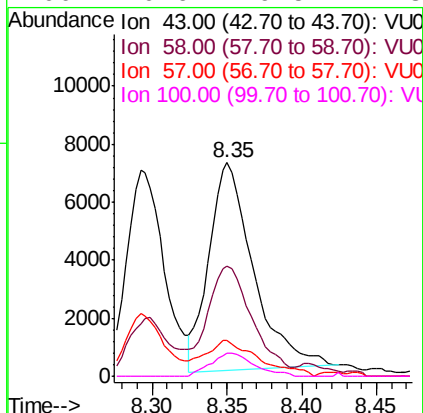
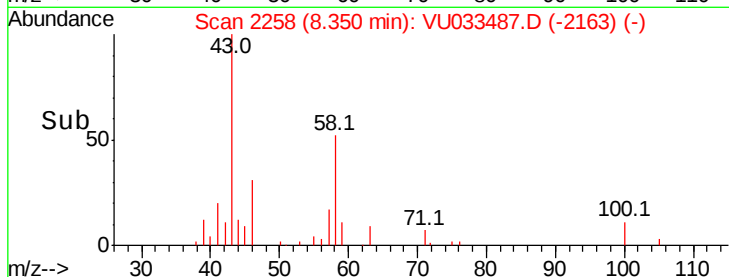
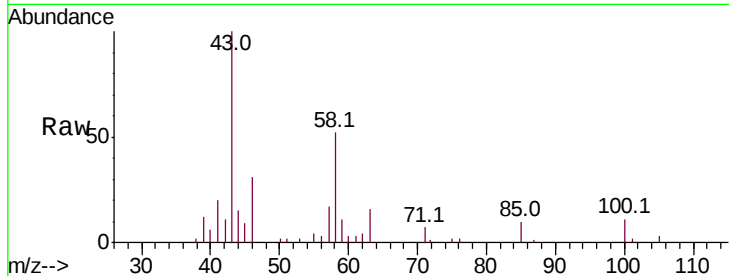
#48
2-Hexanone
Concen: 5.618 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	53.8	46.6	69.8	
57	21.5	16.0	24.0	
100	10.6	9.5	14.3	

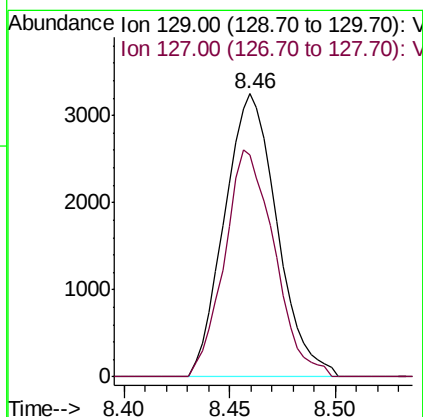
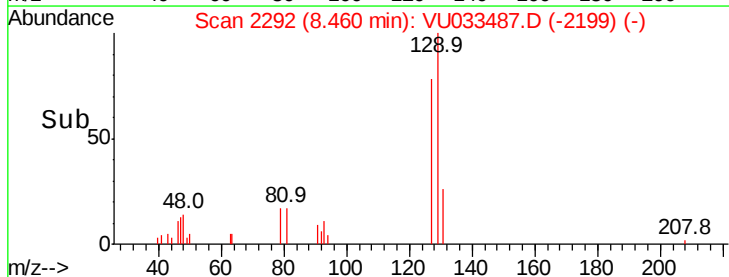
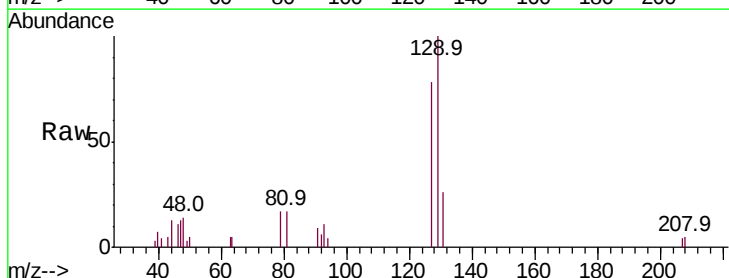
Manual Integrations
APPROVED

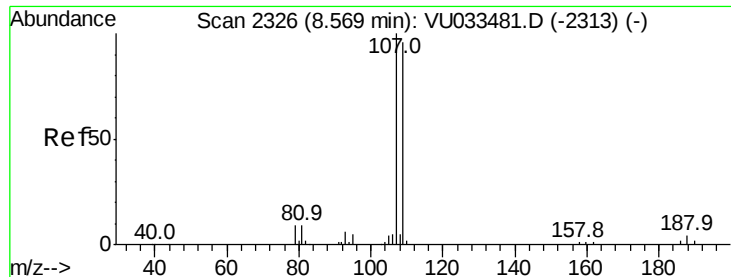
MMdadoda
8/1/2019 3:14:54 PM



#49
Dibromochloromethane
Concen: 2.140 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.4	54.5	101.1	





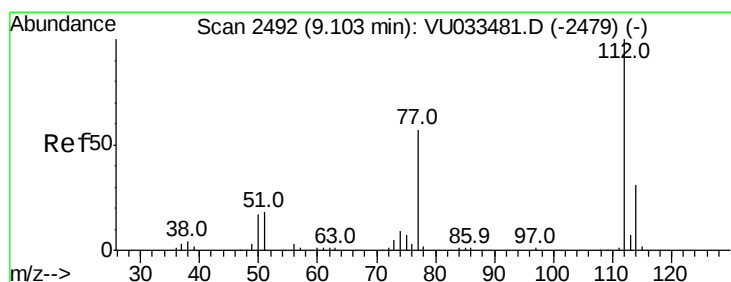
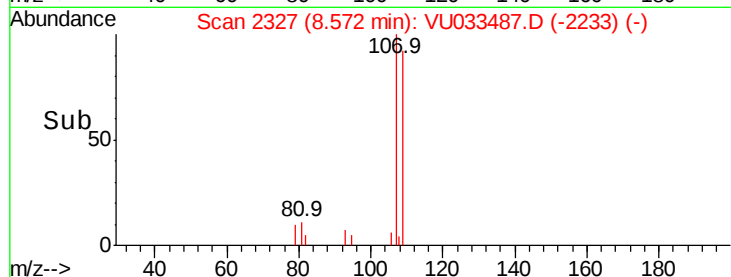
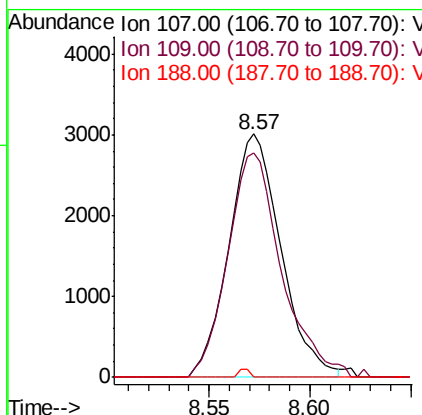
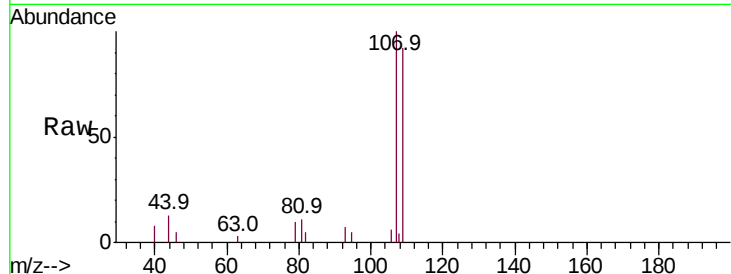
#50
 1,2-Dibromoethane
 Concen: 2.129 ug/L
 RT: 8.57 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
109	92.4	64.7	120.1	
188	0.0	2.8	4.2#	

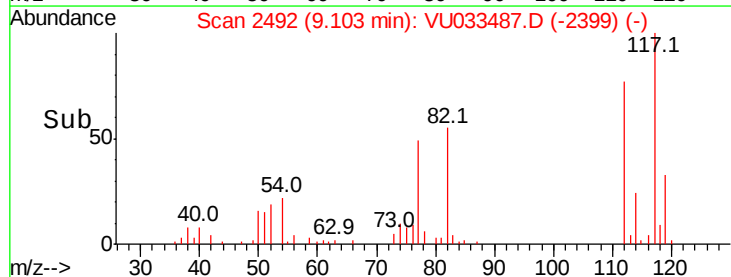
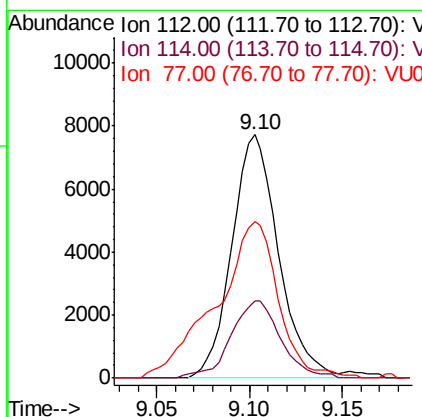
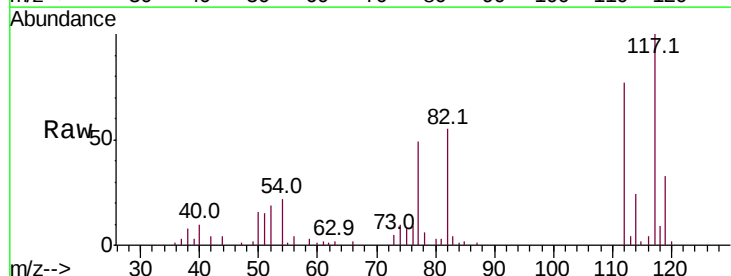
Manual Integrations
 APPROVED

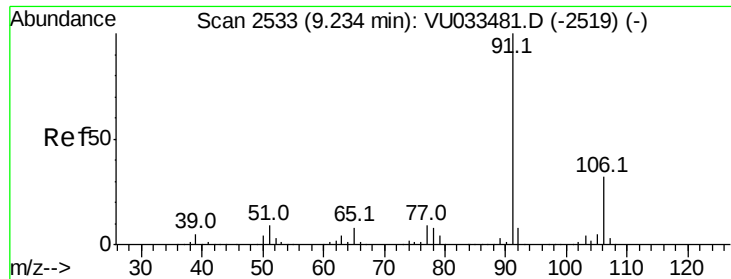
MMDadoda
 8/1/2019 3:14:54 PM



#51
 Chlorobenzene
 Concen: 2.068 ug/L
 RT: 9.10 min Scan# 2492
 Delta R.T. 0.00 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Tgt Ion	Ratio	Resp	Lower	Upper
112	100			
114	31.8	21.9	40.7	
77	64.2	46.1	69.1	





#52

Ethylbenzene

Concen: 1.926 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033487.D

Acq: 30 Jul 2019 12:11

Tot Ion: 91 Resp: 20564

Ion Ratio Lower Upper

91 100

106 29.5 21.6 40.2

Instrument :

MSVOA_U

ClientSampleId :

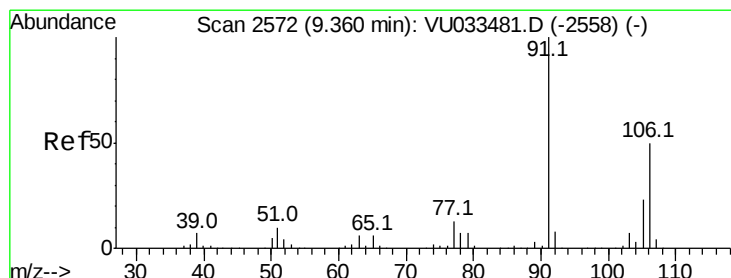
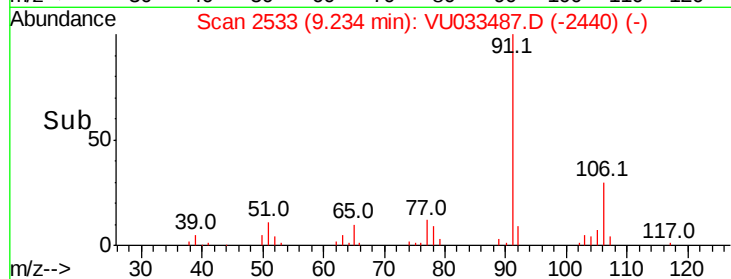
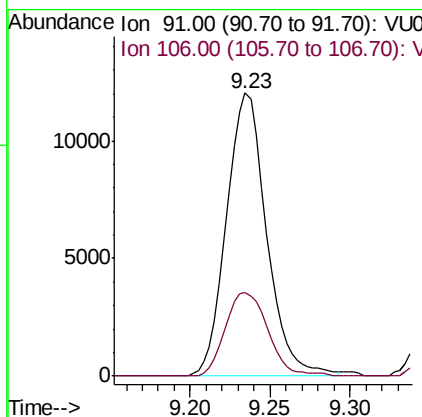
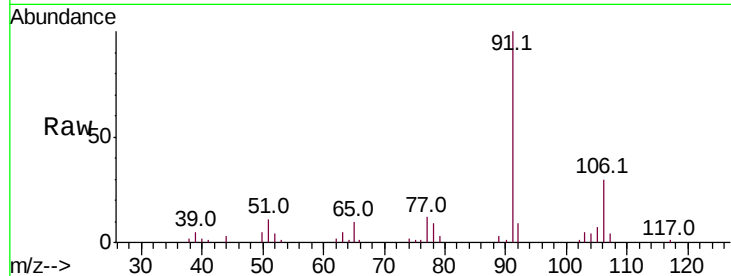
MDL03

Manual Integrations

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MMdadoda

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#53

m,p-Xylene

Concen: 1.810 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033487.D

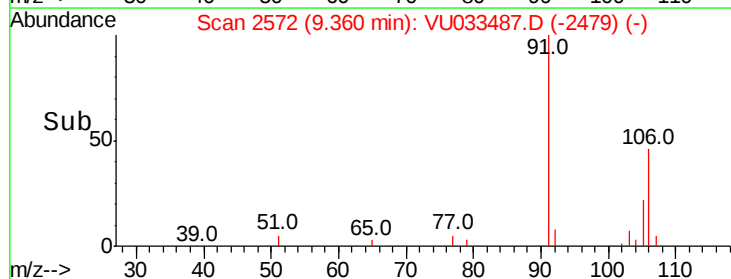
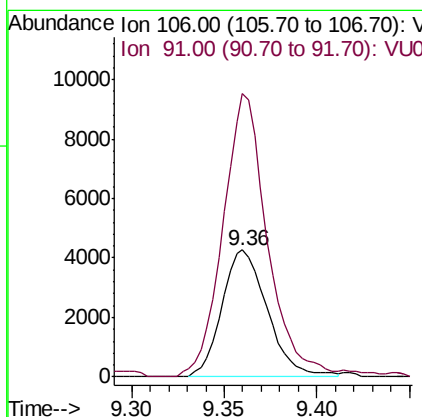
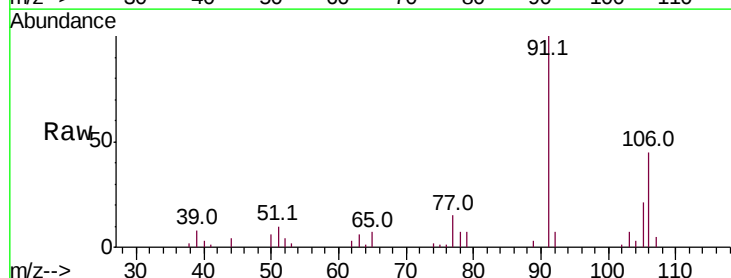
Acq: 30 Jul 2019 12:11

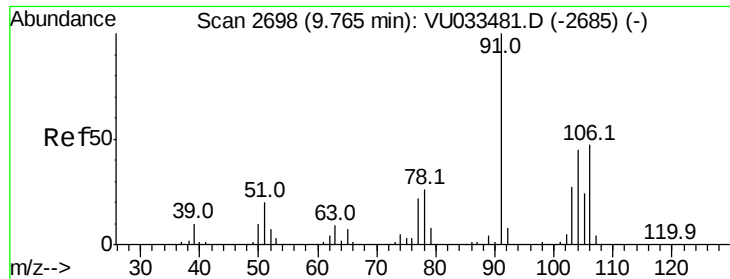
Tgt Ion: 106 Resp: 7270

Ion Ratio Lower Upper

106 100

91 222.6 140.7 261.3





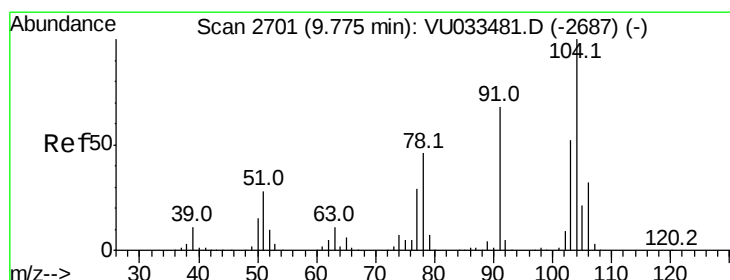
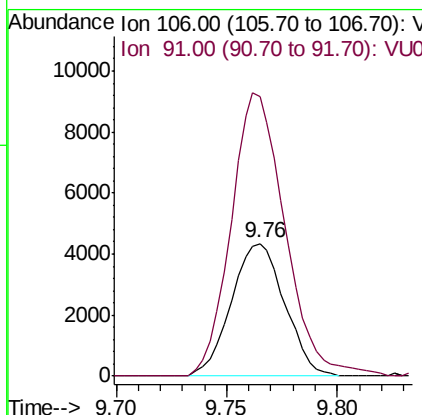
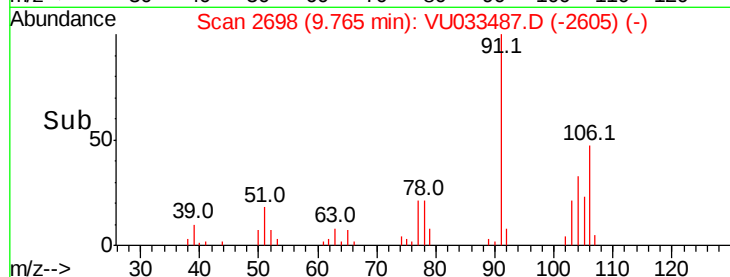
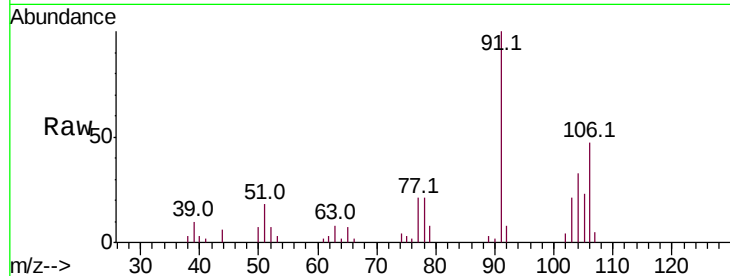
#54
o-xylene
Concen: 1.852 ug/L
RT: 9.76 min Scan# 2698
Delta R.T. 0.00 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion:106 Resp: 7294
Ion Ratio Lower Upper
106 100
91 210.7 151.1 280.7

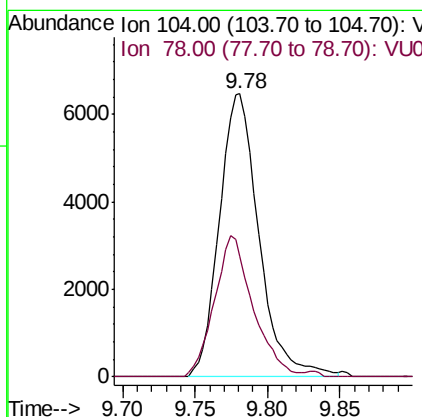
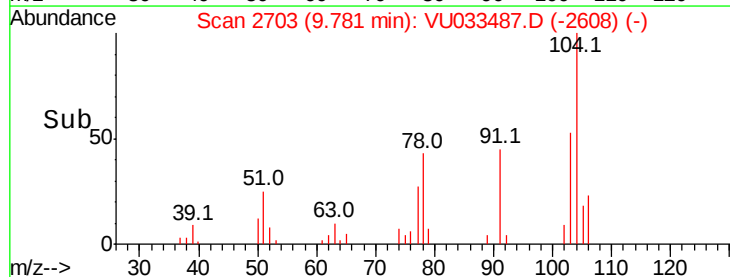
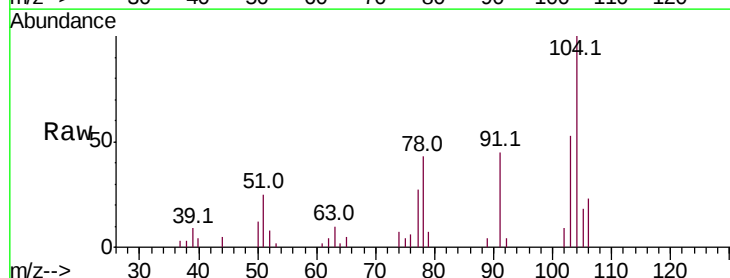
Manual Integrations
APPROVED

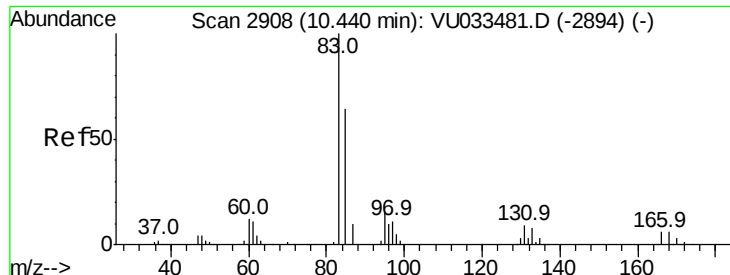
MMdadoda
8/1/2019 3:14:54 PM



#55
Styrene
Concen: 1.831 ug/L
RT: 9.78 min Scan# 2703
Delta R.T. 0.01 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Tgt Ion:104 Resp: 12233
Ion Ratio Lower Upper
104 100
78 42.5 32.6 60.5





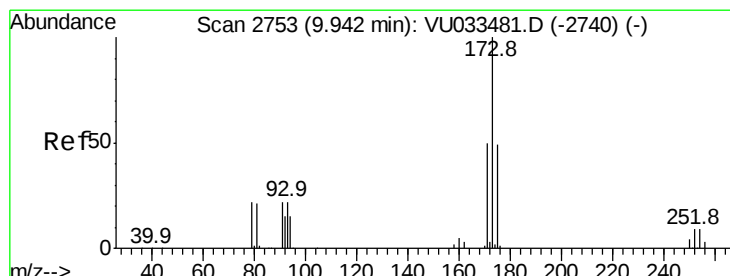
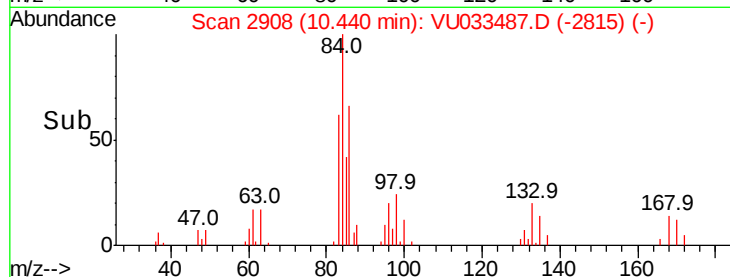
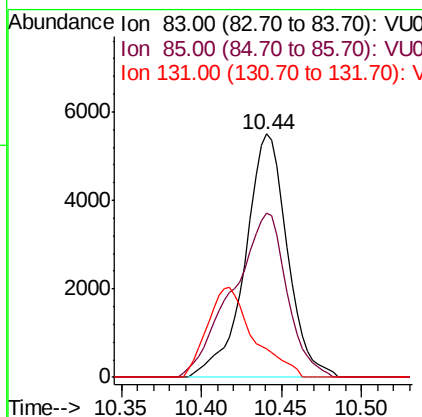
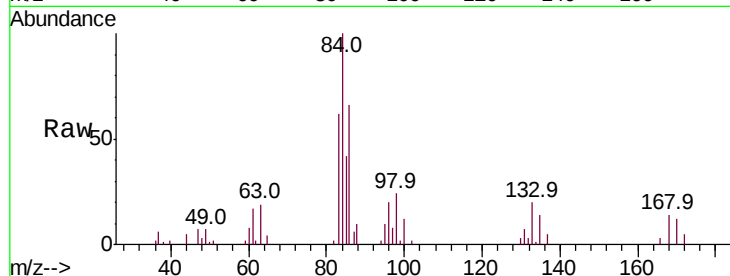
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.381 ug/L
 RT: 10.44 min Scan# 2908
 Delta R.T. 0.00 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
83	100		
85	67.5	45.9	85.3
131	16.0	7.8	11.8#

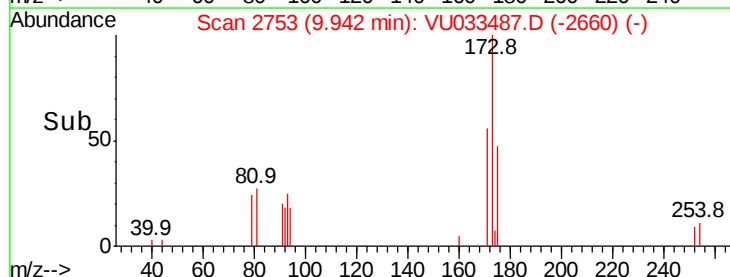
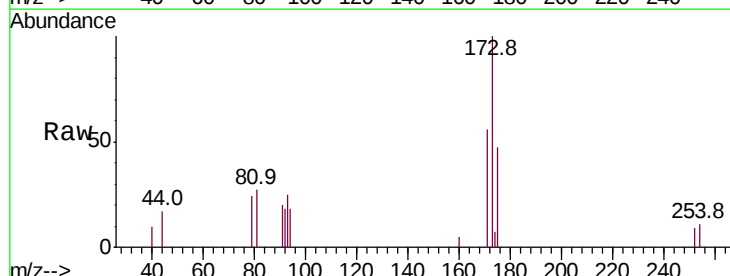
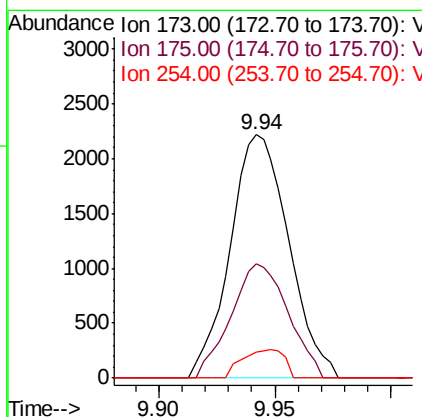
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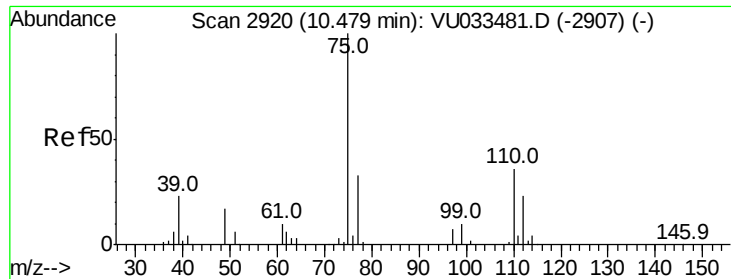
MMDadoda
 8/1/2019 3:14:54 PM



#59
 Bromoform
 Concen: 2.182 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.00 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Tgt Ion	Ratio	Lower	Upper
173	100		
175	45.9	38.1	57.1
254	8.3	7.3	10.9





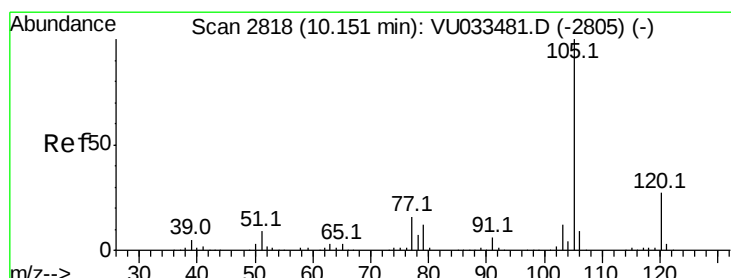
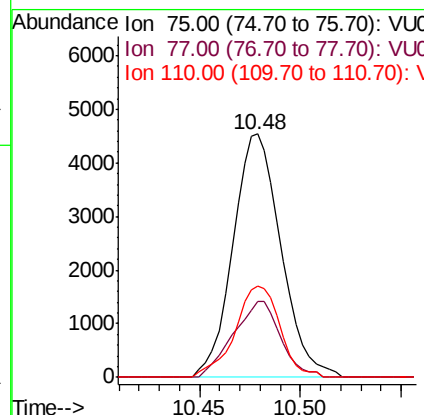
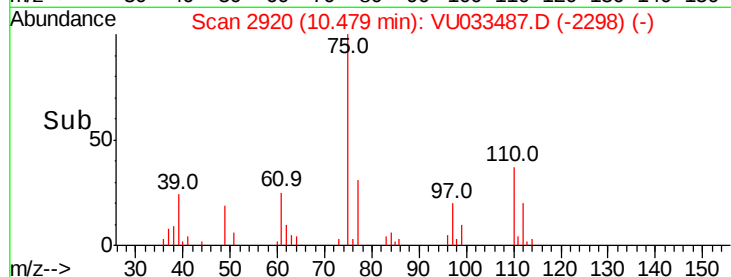
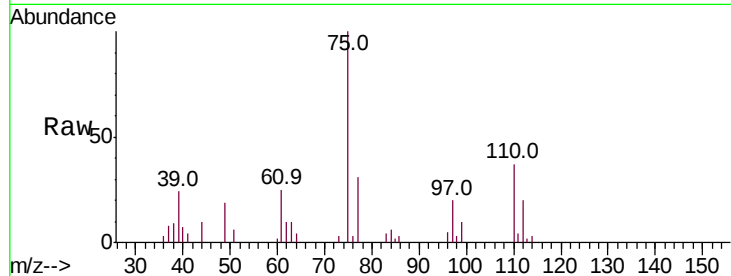
#60
1,2,3-Trichloropropane
Concen: 2.600 ug/L
RT: 10.48 min Scan# 2920
Delta R.T. 0.00 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.9	38.9
110	35.0	30.2	45.4

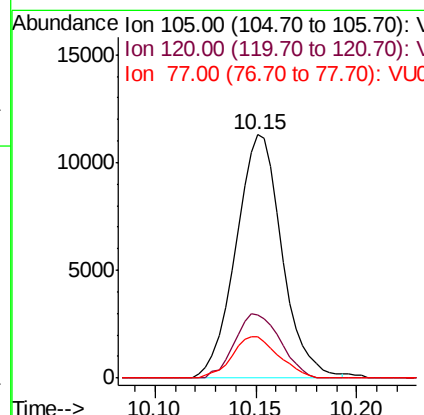
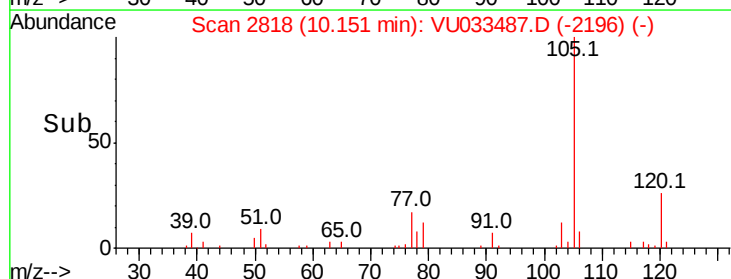
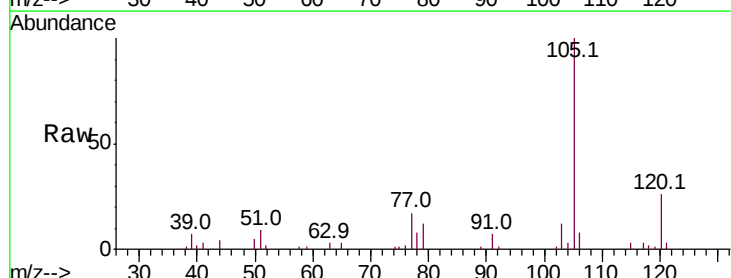
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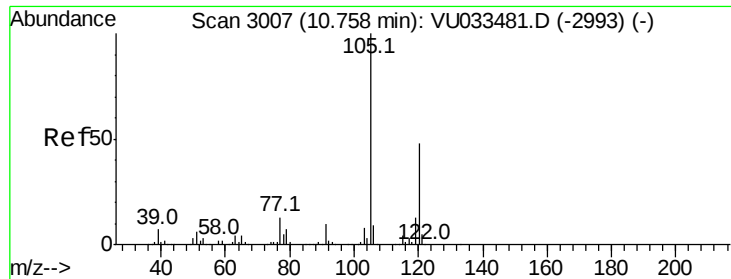
MMdadoda
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#61
Isopropylbenzene
Concen: 1.973 ug/L
RT: 10.15 min Scan# 2818
Delta R.T. 0.00 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.2	21.7	32.5
77	17.3	12.6	19.0





#62

1,3,5-Trimethylbenzene

Concen: 1.786 ug/L

RT: 10.76 min Scan# 3007

Delta R.T. 0.00 min

Lab File: VU033487.D

Acq: 30 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion:105 Resp: 13226

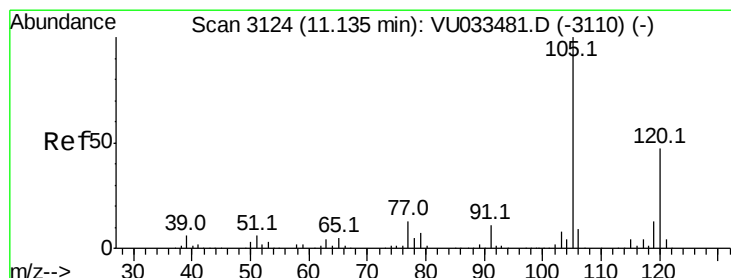
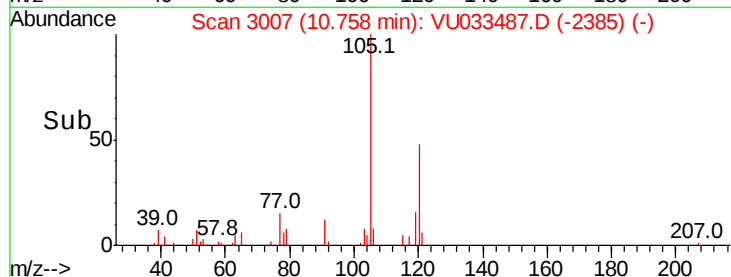
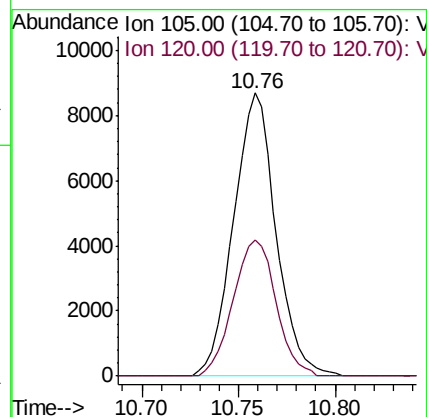
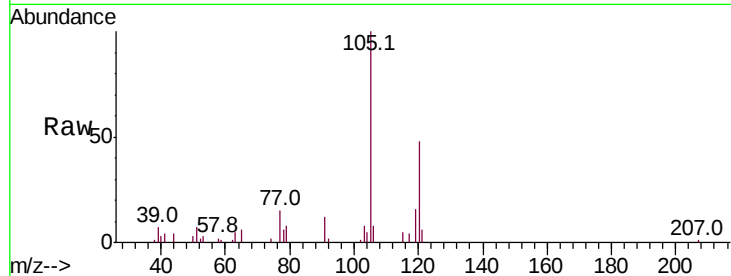
Ion Ratio Lower Upper

105 100

120 48.6 39.0 58.6

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#63

1,2,4-Trimethylbenzene

Concen: 1.793 ug/L

RT: 11.13 min Scan# 3124

Delta R.T. 0.00 min

Lab File: VU033487.D

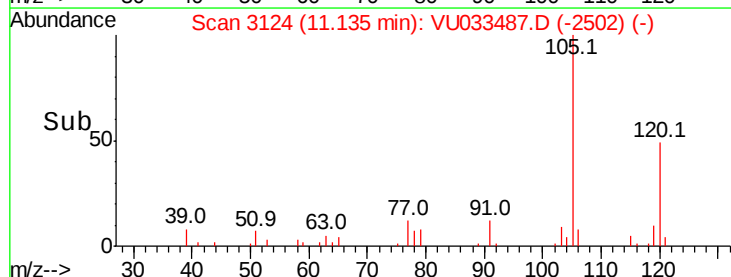
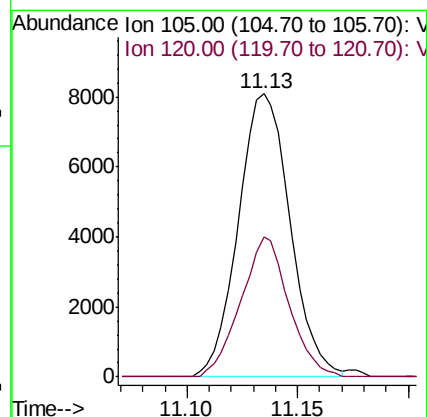
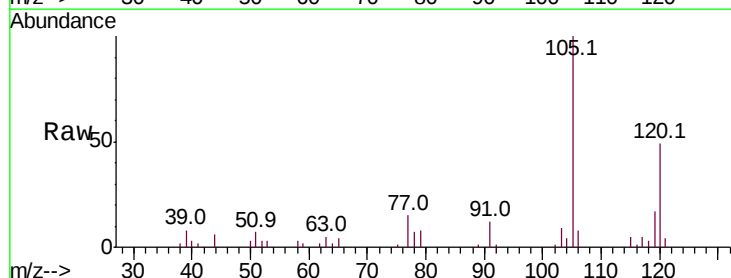
Acq: 30 Jul 2019 12:11

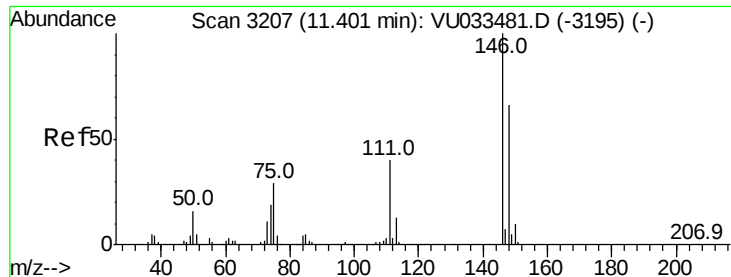
Tgt Ion:105 Resp: 13166

Ion Ratio Lower Upper

105 100

120 46.0 36.6 55.0





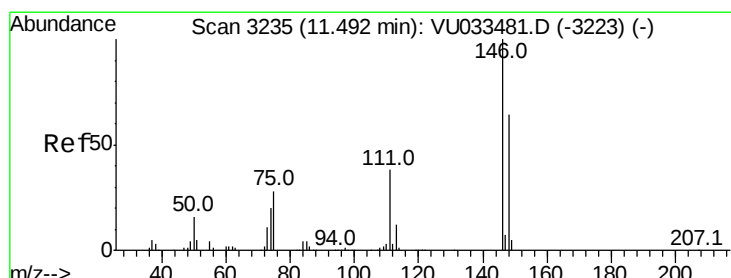
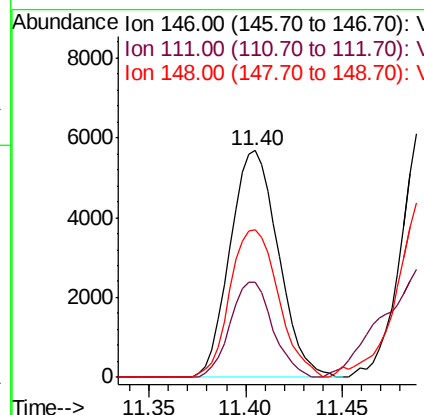
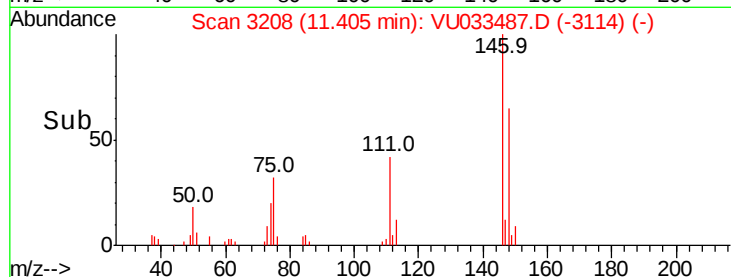
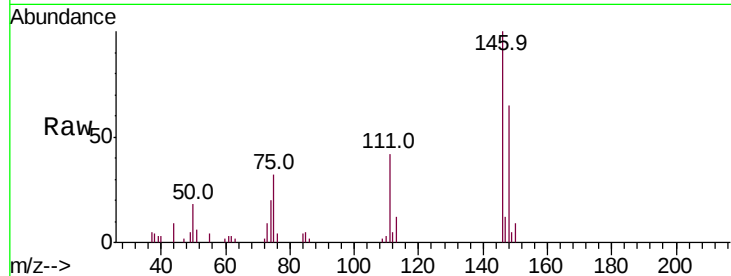
#64
 1,3-Dichlorobenzene
 Concen: 2.113 ug/L
 RT: 11.40 min Scan# 3208
 Delta R.T. 0.00 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	28.2	52.4
148	65.4	44.4	82.5

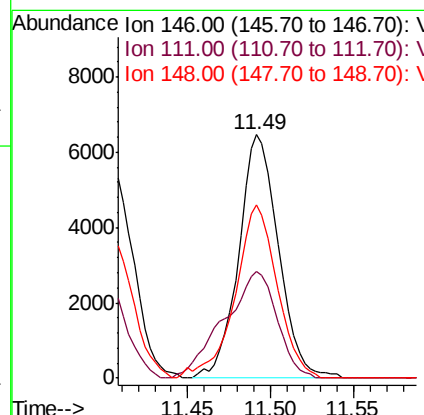
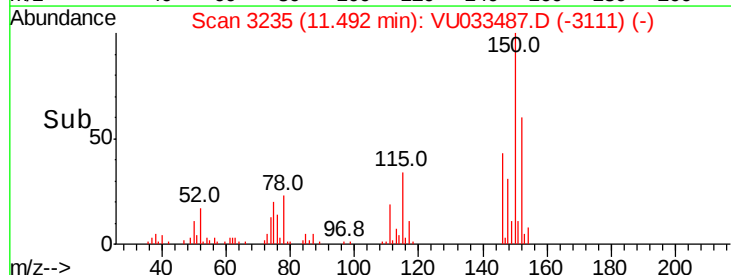
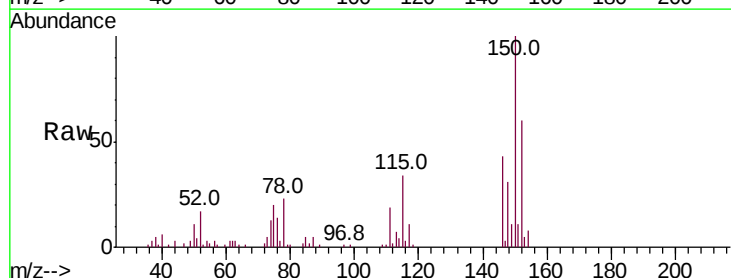
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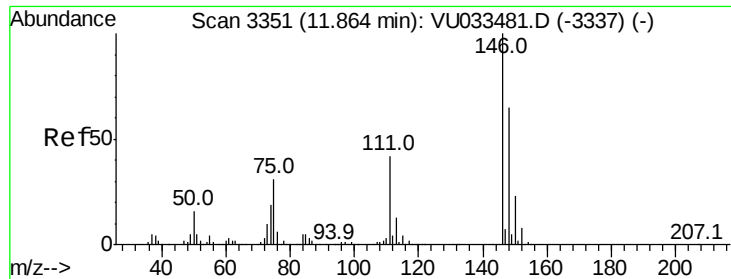
MMdadoda
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#65
 1,4-Dichlorobenzene
 Concen: 2.242 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.7	27.0	50.2
148	70.9	44.7	82.9





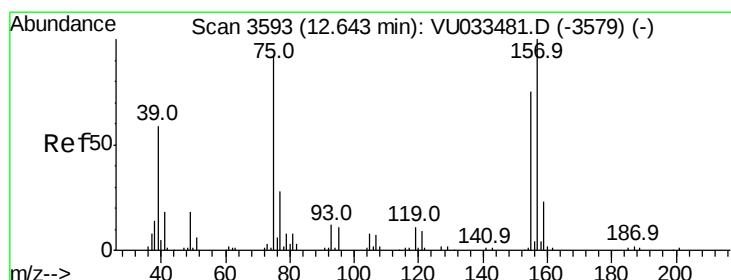
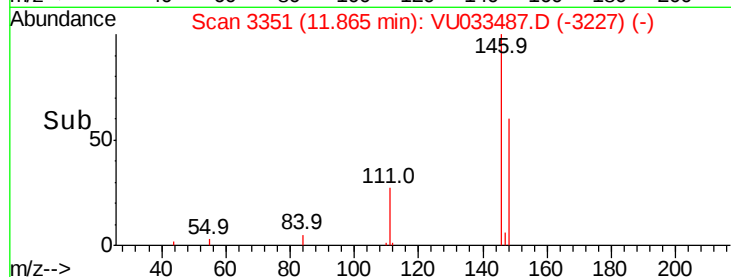
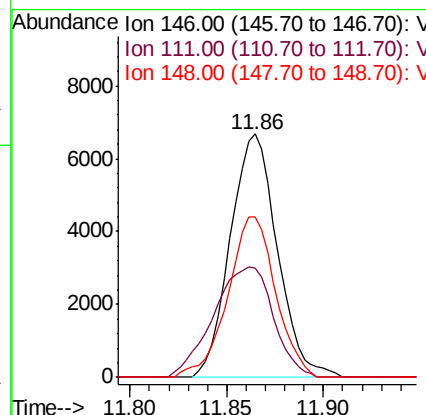
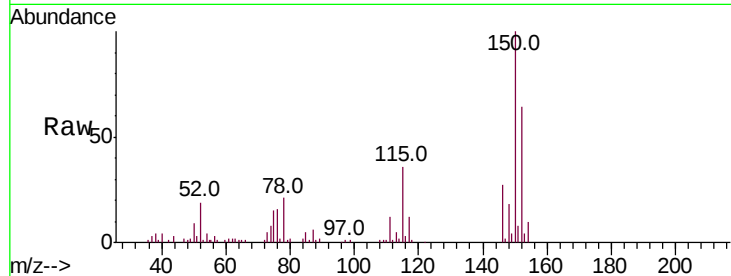
#67
 1,2-Dichlorobenzene
 Concen: 2.423 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.0	32.8	49.2
148	65.6	49.2	73.8

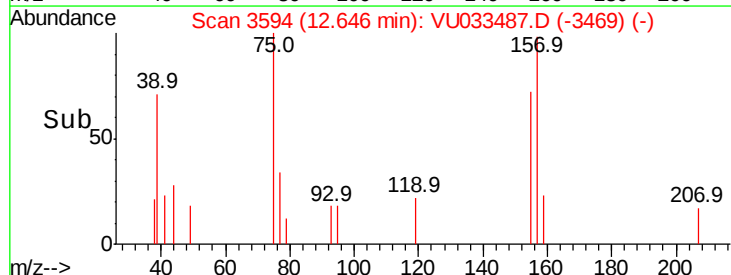
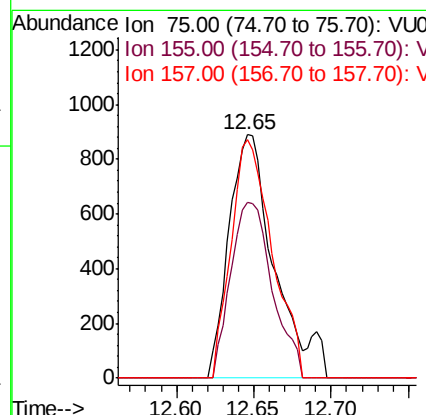
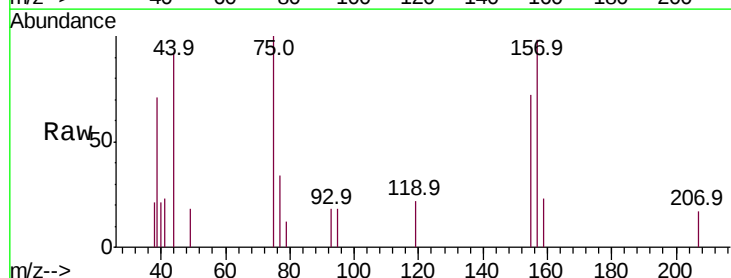
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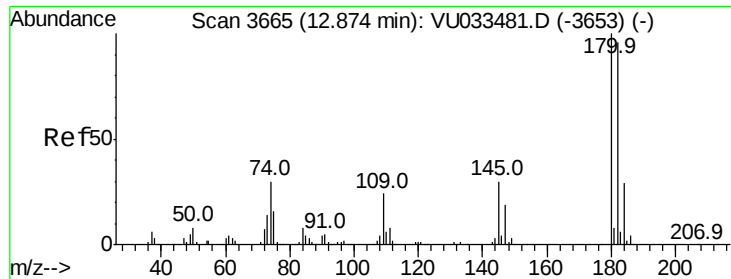
MMdadoda
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.243 ug/L
 RT: 12.65 min Scan# 3594
 Delta R.T. 0.00 min
 Lab File: VU033487.D
 Acq: 30 Jul 2019 12:11

Tgt Ion	Ratio	Lower	Upper
75	100		
155	72.0	64.8	97.2
157	98.2	87.1	130.7





#69

1,3,5-Trichlorobenzene

Concen: 1.906 ug/L

RT: 12.88 min Scan# 3667

Delta R.T. 0.01 min

Lab File: VU033487.D

Acq: 30 Jul 2019 12:11

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion:180 Resp: 6742

Ion Ratio Lower Upper

180 100

182 96.8 76.2 114.4

184 33.1 24.1 36.1

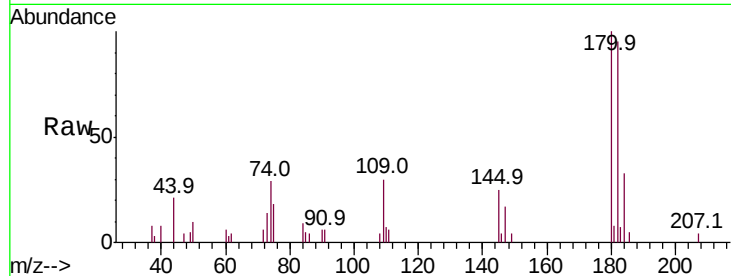
145 27.4 23.7 35.5

Manual Integrations

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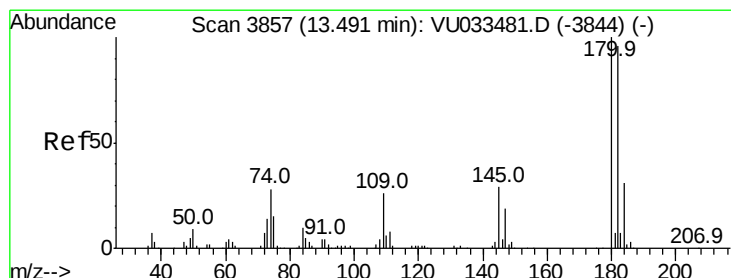
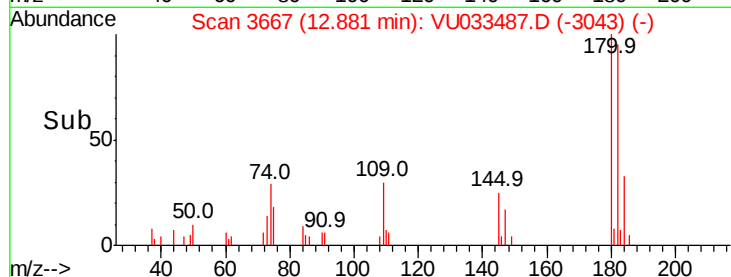
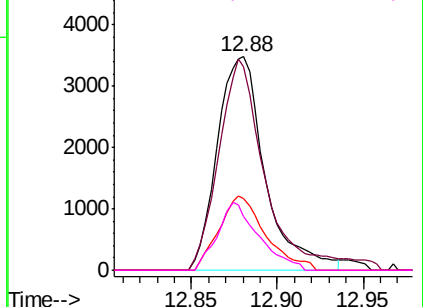
Abundance

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: 1.511 ug/L

RT: 13.50 min Scan# 3859

Delta R.T. 0.01 min

Lab File: VU033487.D

Acq: 30 Jul 2019 12:11

Tgt Ion:180 Resp: 4461

Ion Ratio Lower Upper

180 100

182 87.1 77.5 116.3

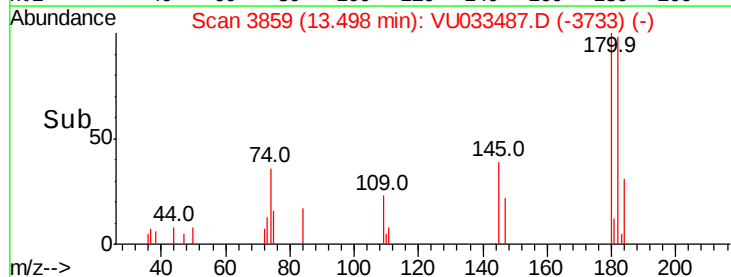
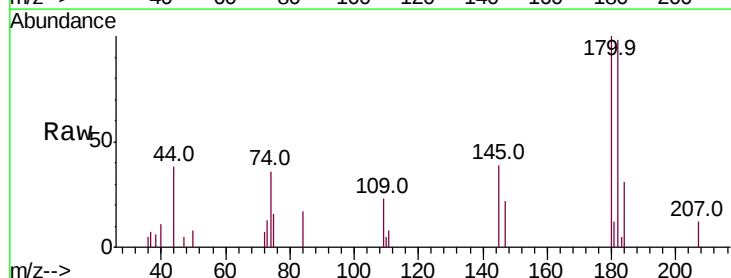
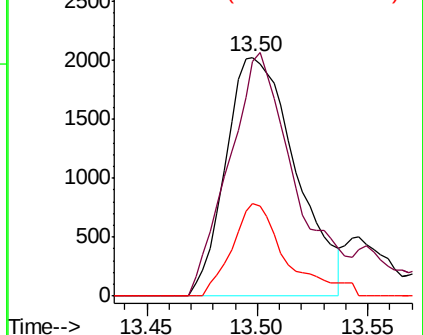
145 29.1 23.9 35.9

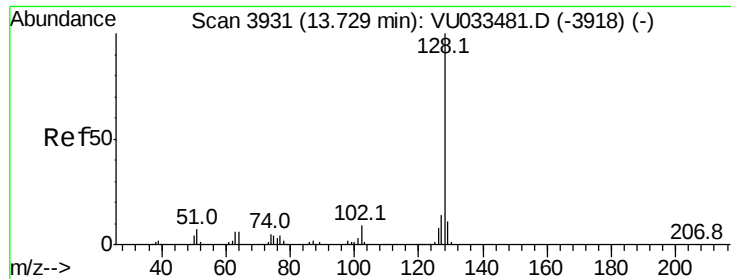
Abundance

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





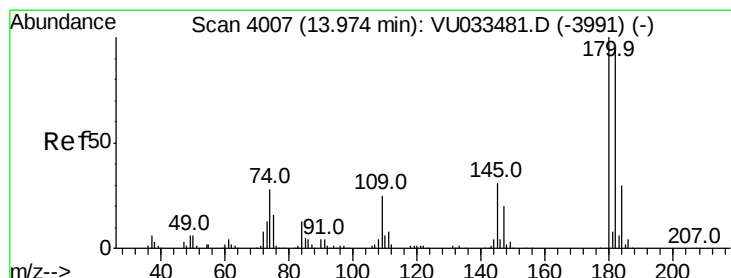
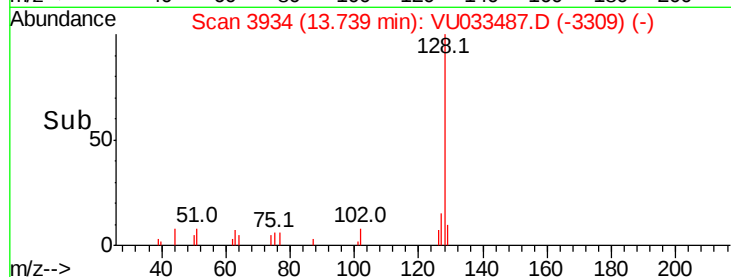
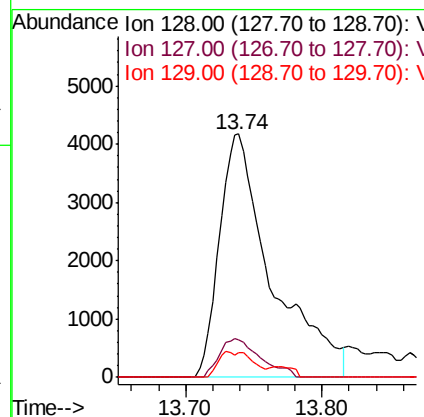
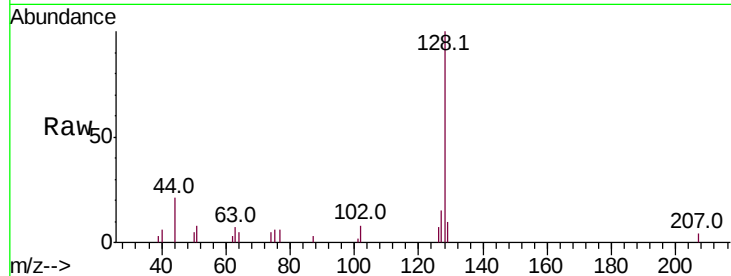
#71
Naphthalene
Concen: 1.305 ug/L m
RT: 13.74 min Scan# 3934
Delta R.T. 0.01 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.8	16.2
129	3.4	8.7	13.1#

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#72
1,2,3-Trichlorobenzene
Concen: 1.617 ug/L
RT: 13.98 min Scan# 4010
Delta R.T. 0.01 min
Lab File: VU033487.D
Acq: 30 Jul 2019 12:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.6	76.4	114.6
145	14.3	24.9	37.3#

