

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV073019\
 Data File : VV012070.D
 Acq On : 30 Jul 2019 12:04
 Operator : SY/MD
 Sample : MDL04
 Misc : 25ML/MSVOA V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMdadoda
 8/1/2019 3:18:21 PM

Quant Time: Jul 31 09:34:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR072919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jul 31 09:22:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	120711	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	116853	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	58111	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	30604	4.48	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.60%
7) Chloroethane-d5	1.58	69	23477	4.90	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.00%
11) 1,1-Dichloroethene-d2	2.13	63	49701	4.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	80.20%
20) 2-Butanone-d5	3.96	46	83344	53.72	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.44%
24) Chloroform-d	4.40	84	77749	5.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.40%
26) 1,2-Dichloroethane-d4	5.08	65	43142	5.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.00%
32) Benzene-d6	5.10	84	153649	5.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.40%
36) 1,2-Dichloropropane-d6	6.12	67	42983	5.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.40%
41) Toluene-d8	7.36	98	142060	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.40%
43) trans-1,3-Dichloropropene-	7.66	79	17937	4.99	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.80%
46) 2-Hexanone-d5	8.14	63	64429	50.61	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.22%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	31054	5.03	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.60%
66) 1,2-Dichlorobenzene-d4	11.67	152	57583	5.56	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	111.20%

Target Compounds

				Ovalue
2) Dichlorodifluoromethane	1.14	85	3514	0.255 ug/L 94
3) Chloromethane	1.25	50	1961	0.249 ug/L 100
5) Vinyl chloride	1.32	62	1760	0.218 ug/L # 50
6) Bromomethane	1.53	94	1042	0.216 ug/L 93
8) Chloroethane	1.60	64	1050	0.240 ug/L 91
9) Trichlorofluoromethane	1.77	101	3578	0.260 ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	2049	0.342 ug/L 84
12) 1,1-Dichloroethene	2.14	96	2002	0.361 ug/L # 1
13) Acetone	2.24	43	2316m	2.712 ug/L
14) Carbon disulfide	2.32	76	3914	0.253 ug/L # 93
15) Methyl Acetate	2.47	43	406m	0.231 ug/L
16) Methylene chloride	2.54	84	1915	0.337 ug/L 87
17) Methyl tert-butyl Ether	2.81	73	4576	0.262 ug/L 96
18) trans-1,2-Dichloroethene	2.79	96	1806	0.226 ug/L 98
19) 1,1-Dichloroethane	3.23	63	3487	0.244 ug/L 93
21) 2-Butanone	4.06	43	4173m	2.477 ug/L
22) cis-1,2-Dichloroethene	3.96	96	2236	0.263 ug/L 69

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Manual Integrations
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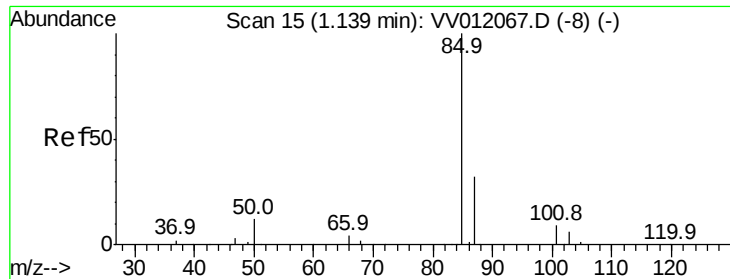
MMdadoda
 8/1/2019 3:18:21 PM

Quant Time: Jul 31 09:34:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR072919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jul 31 09:22:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.30	128	792	0.212	ug/L #	77
25) Chloroform	4.43	83	11475	0.640	ug/L	99
27) 1,2-Dichloroethane	5.18	62	2671	0.270	ug/L #	95
29) 1,1,1-Trichloroethane	4.66	97	3578	0.248	ug/L	97
30) Cyclohexane	4.72	56	2992	0.242	ug/L #	59
31) Carbon tetrachloride	4.88	117	3199	0.246	ug/L	92
33) Benzene	5.15	78	8105	0.255	ug/L	100
34) Trichloroethene	5.96	95	2096	0.232	ug/L	80
35) Methylcyclohexane	6.18	83	3408	0.240	ug/L	96
37) 1,2-Dichloropropane	6.22	63	1885	0.257	ug/L #	86
38) Bromodichloromethane	6.56	83	2773	0.267	ug/L #	89
39) cis-1,3-Dichloropropene	7.07	75	2803	0.243	ug/L	99
40) 4-Methyl-2-pentanone	7.28	43	9242	2.231	ug/L #	86
42) Toluene	7.43	91	9028	0.256	ug/L	99
44) trans-1,3-Dichloropropene	7.70	75	2361	0.254	ug/L #	81
45) 1,1,2-Trichloroethane	7.88	97	1411	0.252	ug/L	93
47) Tetrachloroethene	8.02	164	2157	0.273	ug/L	99
48) 2-Hexanone	8.19	43	7411	2.531	ug/L	94
49) Dibromochloromethane	8.29	129	1393	0.203	ug/L	85
50) 1,2-Dibromoethane	8.40	107	1351	0.258	ug/L #	86
51) Chlorobenzene	8.92	112	5987	0.254	ug/L	91
52) Ethylbenzene	9.05	91	9300	0.231	ug/L	97
53) m,p-xylene	9.18	106	3794	0.247	ug/L	86
54) o-xylene	9.59	106	3097	0.213	ug/L	80
55) Styrene	9.60	104	4975	0.204	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.28	83	1599	0.266	ug/L #	87
59) Bromoform	9.77	173	1014	0.289	ug/L #	86
60) Isopropylbenzene	9.97	105	8675	0.234	ug/L	98
61) 1,2,3-Trichloropropane	10.32	75	1161	0.274	ug/L #	92
62) 1,3,5-Trimethylbenzene	10.58	105	7099	0.232	ug/L	95
63) 1,2,4-Trimethylbenzene	10.96	105	6594	0.216	ug/L	94
64) 1,3-Dichlorobenzene	11.23	146	4897	0.265	ug/L	93
65) 1,4-Dichlorobenzene	11.32	146	5109	0.271	ug/L	97
67) 1,2-Dichlorobenzene	11.69	146	4918	0.293	ug/L	90
68) 1,2-Dibromo-3-chloropropan	12.48	75	316	0.362	ug/L #	67
69) 1,3,5-Trichlorobenzene	12.69	180	4113	0.269	ug/L	94
70) 1,2,4-trichlorobenzene	13.31	180	3057	0.253	ug/L #	96
71) Naphthalene	13.56	128	3491	0.208	ug/L	99
72) 1,2,3-Trichlorobenzene	13.79	180	2669	0.249	ug/L	94

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



#2

Dichlorodifluoromethane

Concen: 0.255 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 85 Resp: 3514

Ion Ratio Lower Upper

85 100

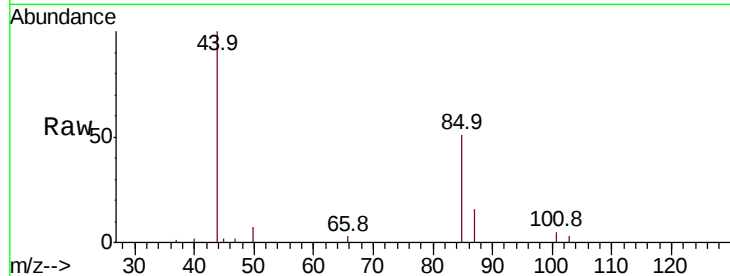
87 29.2 25.9 38.9

Manual Integrations

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Abundance Ion 85.00 (84.70 to 85.70): VV012067.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV012067.D (-8) (-)

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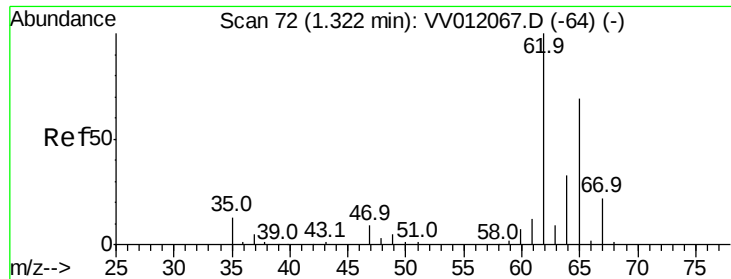
3.70

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3.72

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3.74



#5

Vinyl chloride

Concen: 0.218 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 62 Resp: 1760

Ion Ratio Lower Upper

62 100

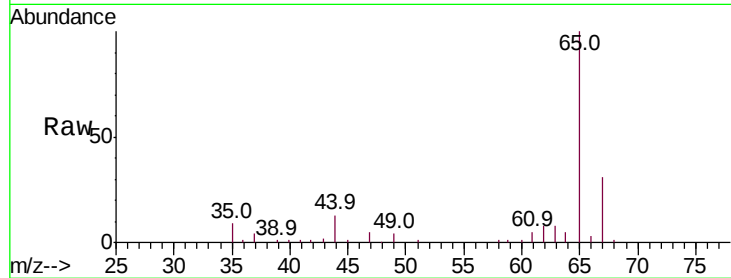
64 59.3 22.0 41.0#

Manual Integrations

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Abundance Ion 62.00 (61.70 to 62.70): VV012067.D (-64) (-)

Ion 64.10 (63.80 to 64.80): VV012067.D (-64) (-)

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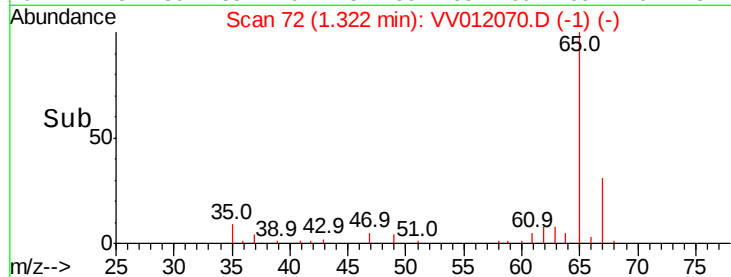
1.32

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#6

Bromomethane

Concen: 0.216 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV012070.D

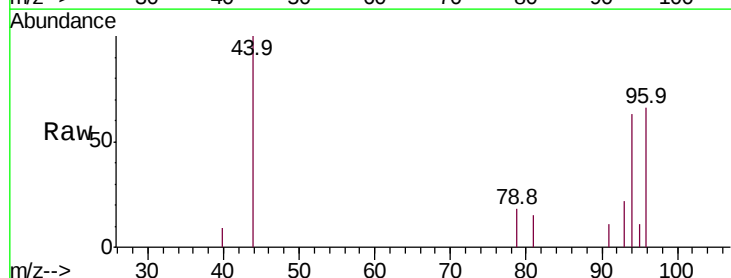
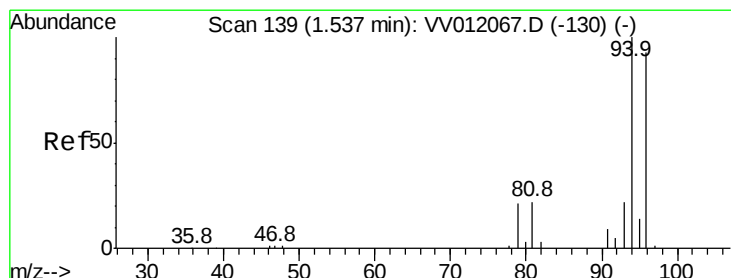
Acq: 30 Jul 2019 12:04

Tgt Ion: 94 Resp: 1042

Ion Ratio Lower Upper

94 100

96 104.0 67.8 125.8



Abundance Ion 94.00 (93.70 to 94.70): VV012067.D (-130) (-)

Ion 96.00 (95.70 to 96.70): VV012067.D (-130) (-)

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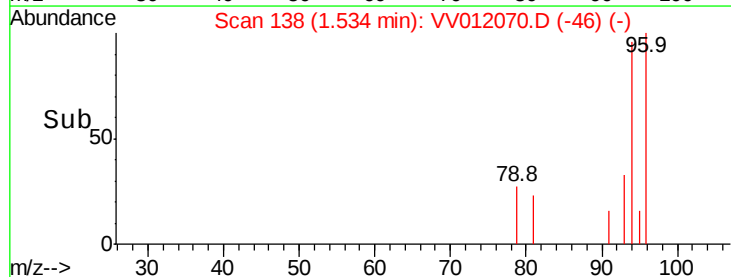
1.53

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#6

Bromomethane

Concen: 0.216 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV012070.D

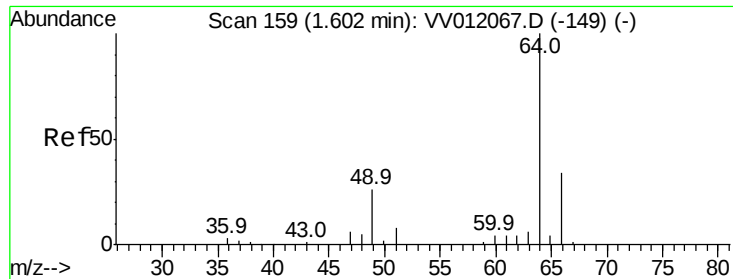
Acq: 30 Jul 2019 12:04

Tgt Ion: 94 Resp: 1042

Ion Ratio Lower Upper

94 100

96 104.0 67.8 125.8



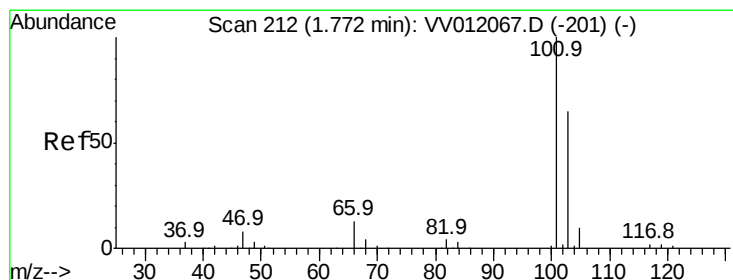
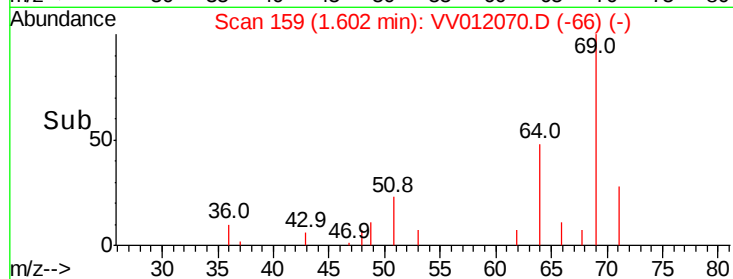
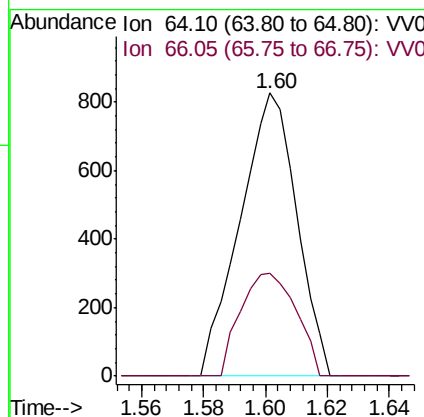
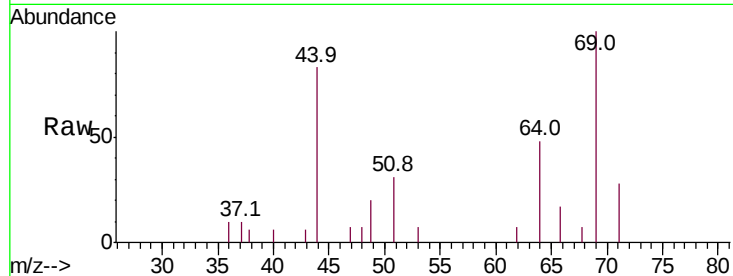
#8
Chloroethane
Concen: 0.240 ug/L
RT: 1.60 min Scan# 159
Delta R.T. -0.00 min
Lab File: VV012070.D
Acq: 30 Jul 2019 12:04

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion: 64 Resp: 1050
Ion Ratio Lower Upper
64 100
66 36.2 21.7 40.3

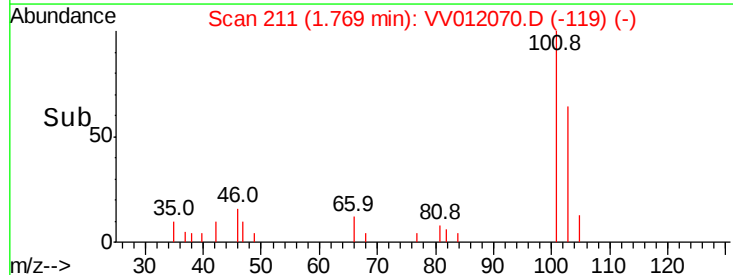
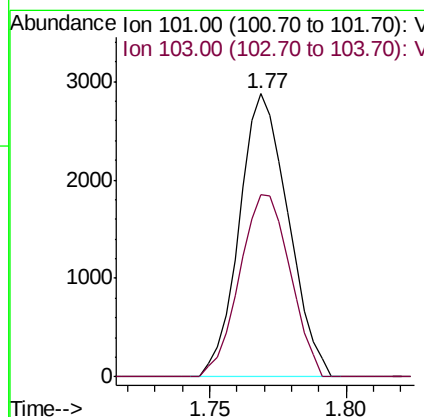
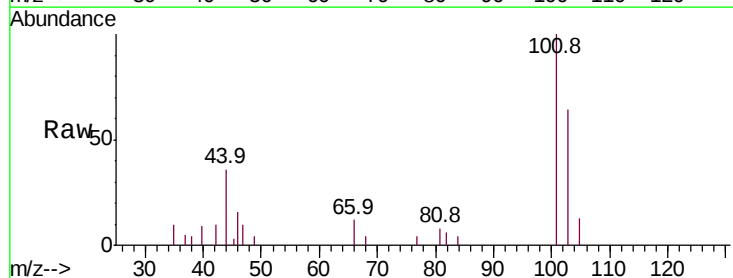
Manual Integrations
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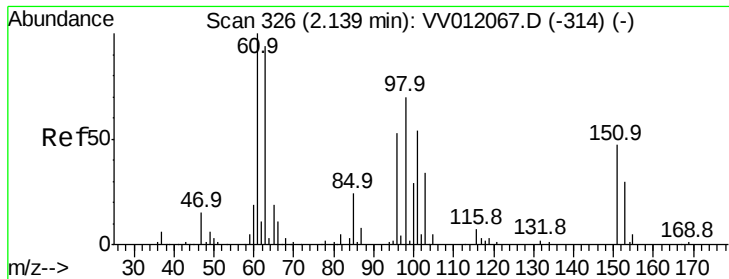
MMdadoda
8/1/2019 3:18:21 PM



#9
Trichlorofluoromethane
Concen: 0.260 ug/L
RT: 1.77 min Scan# 211
Delta R.T. -0.00 min
Lab File: VV012070.D
Acq: 30 Jul 2019 12:04

Tgt Ion: 101 Resp: 3578
Ion Ratio Lower Upper
101 100
103 66.5 52.6 79.0





#10

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

Concen: 0.342 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Instrument :

MSVOA_V

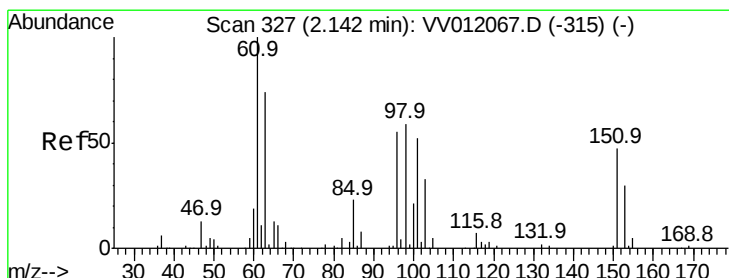
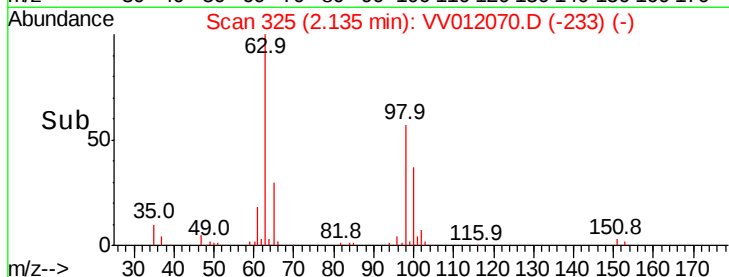
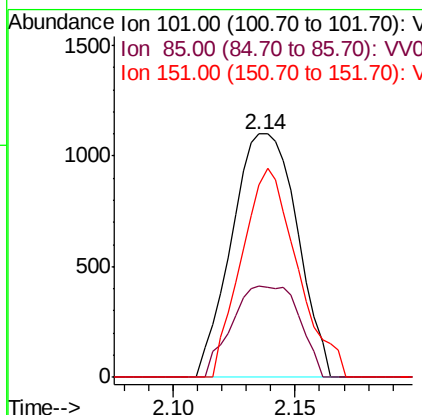
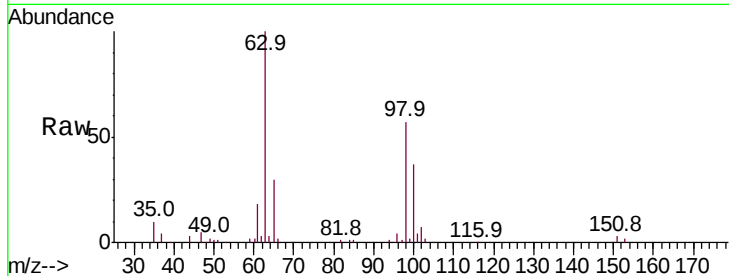
ClientSampled :

MDL04

Tot Ion:	101	Resp:	2049
Ion Ratio	Lower	Upper	
101	100		
85	38.6	37.8	56.8
151	73.3	71.4	107.2

Manual Integrations
APPROVED

MMdadoda
8/1/2019 3:18:21 PM



#12

1,1-Dichloroethene

Concen: 0.361 ug/L

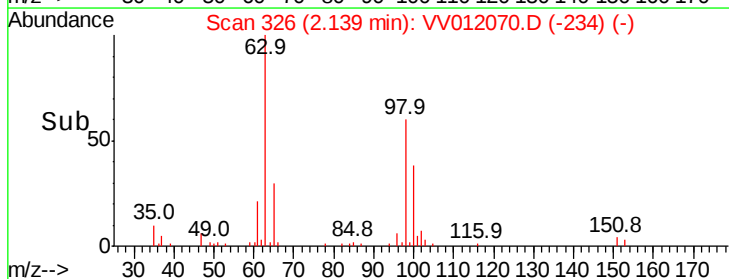
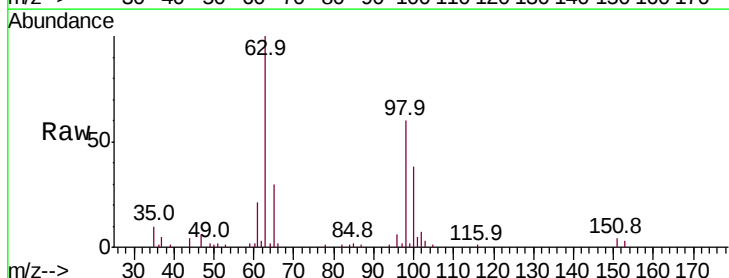
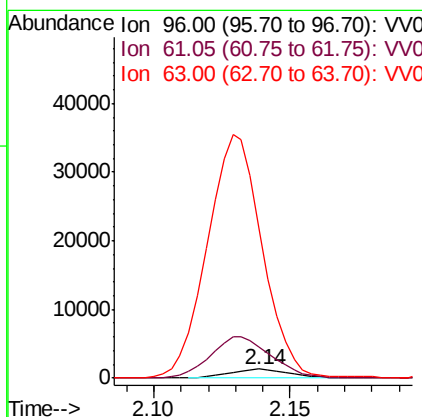
RT: 2.14 min Scan# 326

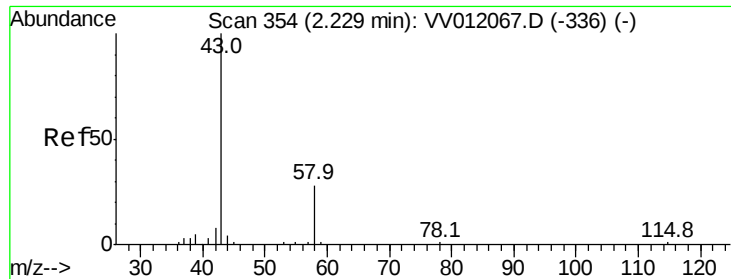
Delta R.T. -0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Tgt Ion:	96	Resp:	2002
Ion Ratio	Lower	Upper	
96	100		
61	336.9	127.8	237.4#
63	1633.6	92.7	172.3#





#13

Acetone

Concen: 2.712 ug/L m

RT: 2.24 min Scan# 356

Delta R.T. 0.01 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 43 Resp: 2316

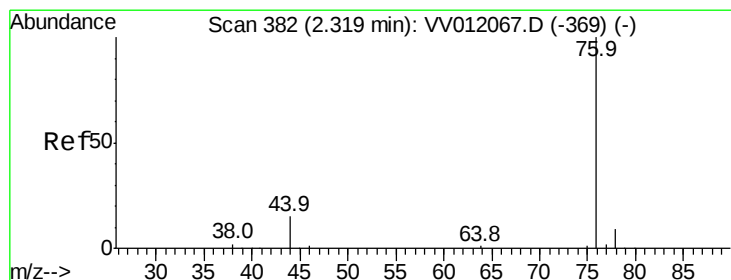
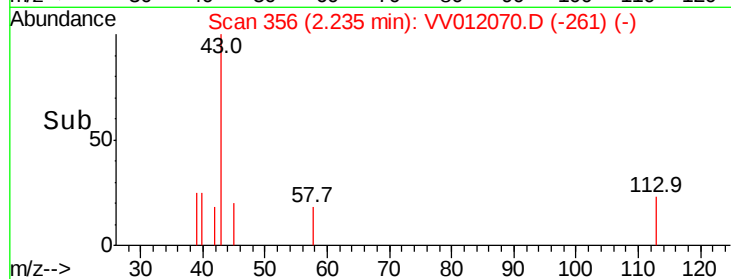
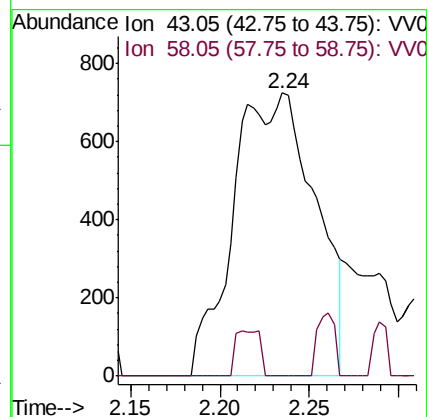
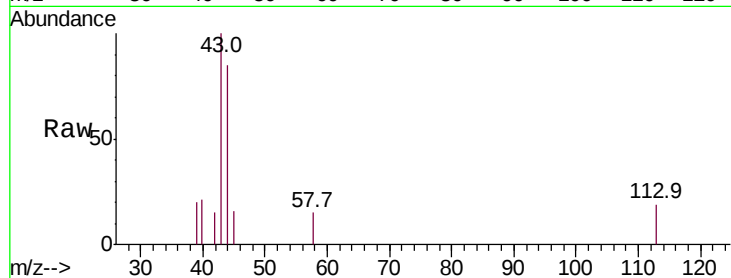
Ion Ratio Lower Upper

43 100

58 4.7 0.0 51.6

Manual Integrations
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#14

Carbon disulfide

Concen: 0.253 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV012070.D

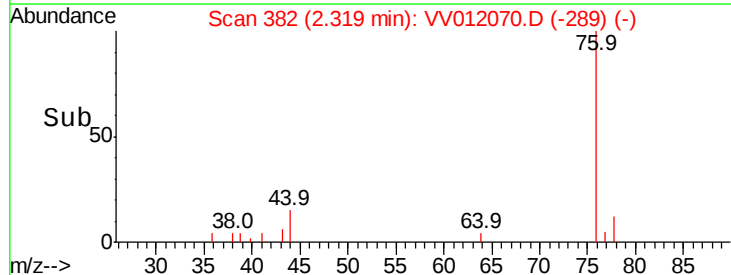
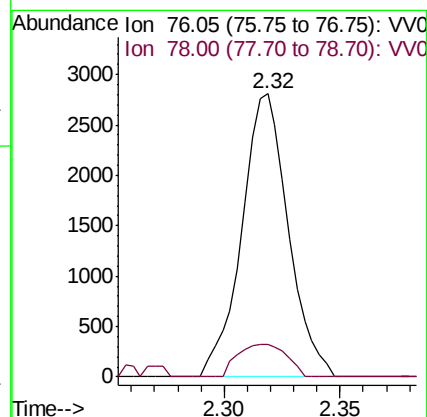
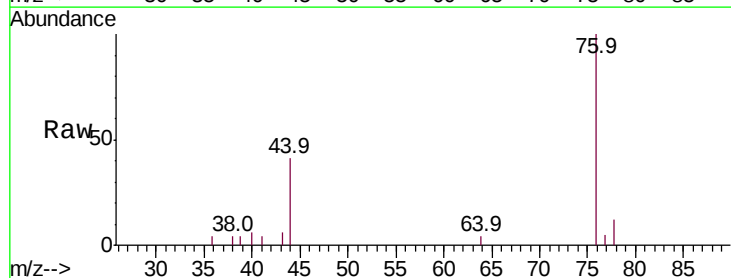
Acq: 30 Jul 2019 12:04

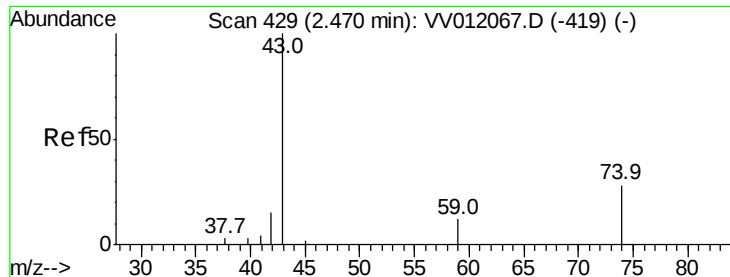
Tgt Ion: 76 Resp: 3914

Ion Ratio Lower Upper

76 100

78 11.7 7.2 10.8#





#15

Methvl Acetate

Concen: 0.231 ug/L m

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Tot Ion: 43 Resp: 406

Ion Ratio Lower Upper

43 100

74 24.1 24.4 36.6#

Instrument :

MSVOA_V

ClientSampled :

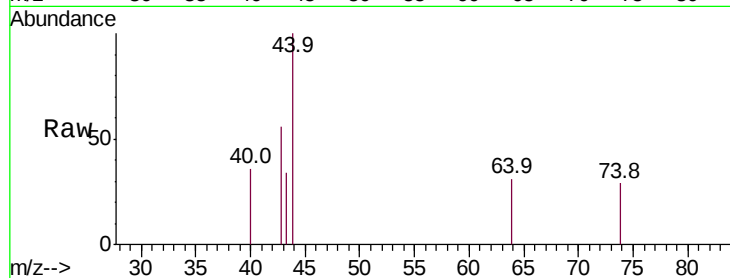
MDL04

Manual Integrations

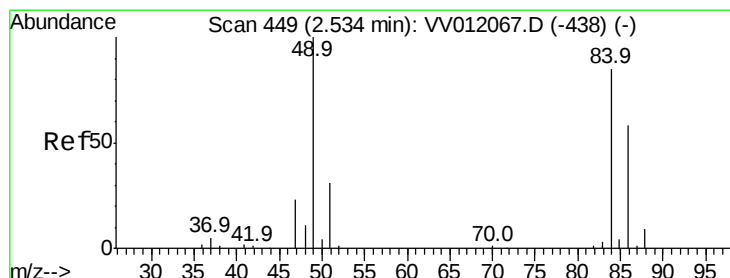
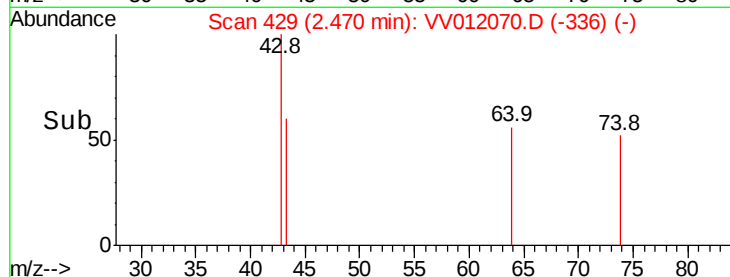
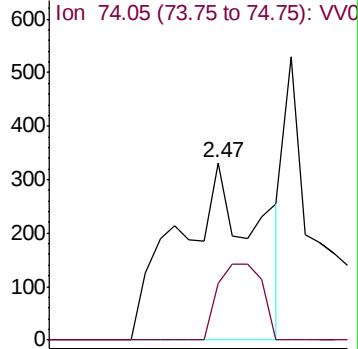
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Abundance Ion 43.05 (42.75 to 43.75): VV012067.D (-419) (-)



#16

Methylene chloride

Concen: 0.337 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

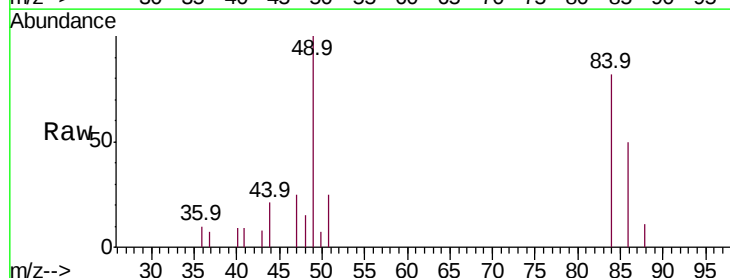
Tgt Ion: 84 Resp: 1915

Ion Ratio Lower Upper

84 100

86 60.9 44.9 83.3

49 131.6 78.6 146.0



Abundance Ion 84.05 (83.75 to 84.75): VV012067.D (-438) (-)

Ion 86.00 (85.70 to 86.70): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

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Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

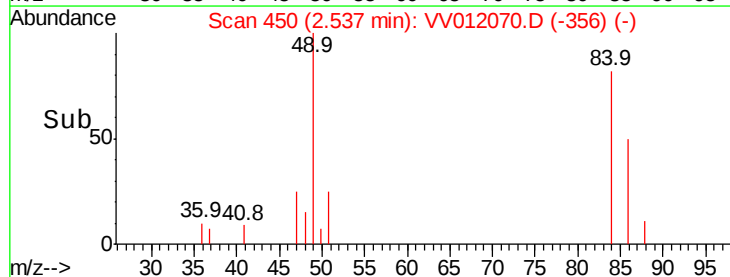
Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)

Ion 49.10 (48.80 to 49.80): VV012067.D (-438) (-)



Abundance Ion 84.05 (83.75 to 84.75): VV012070.D (-356) (-)

Ion 86.00 (85.70 to 86.70): VV012070.D (-356) (-)

Ion 49.10 (48.80 to 49.80): VV012070.D (-356) (-)

Ion 49.10 (48.80 to 49.80): VV012070.D (-356) (-)

Ion 49.10 (48.80 to 49.80): VV012070.D (-356) (-)

Ion 49.10 (48.80 to 49.80): VV012070.D (-356) (-)

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Ion 49.10 (48.80 to 49.80): VV012070.D (-356) (-)

Ion 49.10 (48.80 to 49.80): VV012070.D (-356) (-)

Ion 49.10 (48.80 to 49.80): VV012070.D (-356) (-)

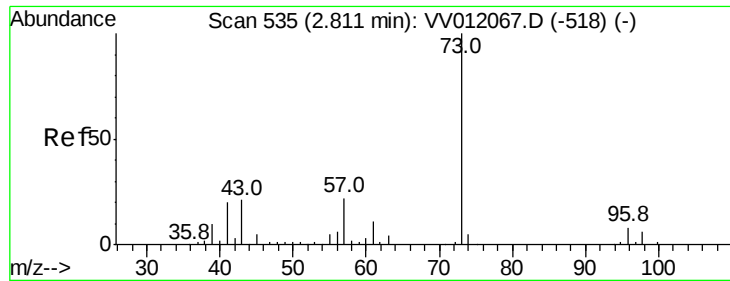
Ion 49.10 (48.80 to 49.80): VV012070.D (-356) (-)

Ion 49.10 (48.80 to 49.80): VV012070.D (-356) (-)

Ion 49.10 (48.80 to 49.80): VV012070.D (-356) (-)

Ion 49.10 (48.80 to 49.80): VV012070.D (-356) (-)

Ion 49.10 (48.80 to 49.80): VV012070.D (-356) (-)



#17

Methvl tert-butvl Ether

Concen: 0.262 ug/L

RT: 2.81 min Scan# 535

Delta R.T. -0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Instrument :
MSVOA_V

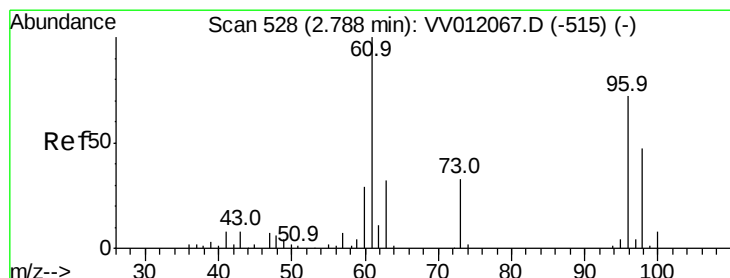
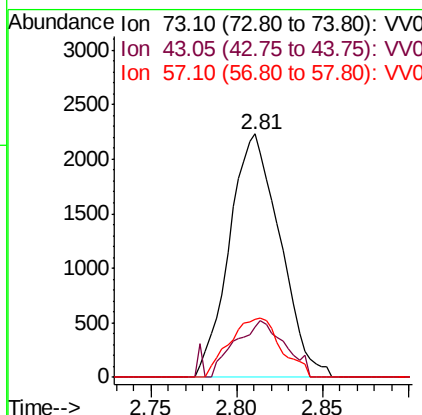
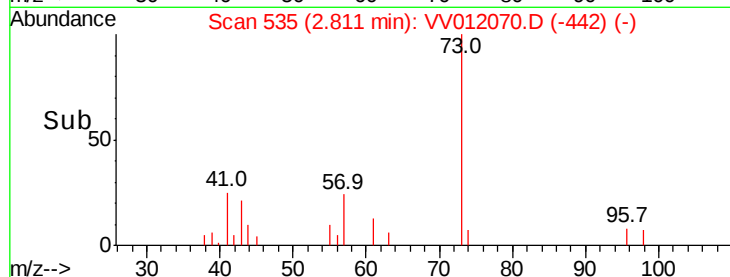
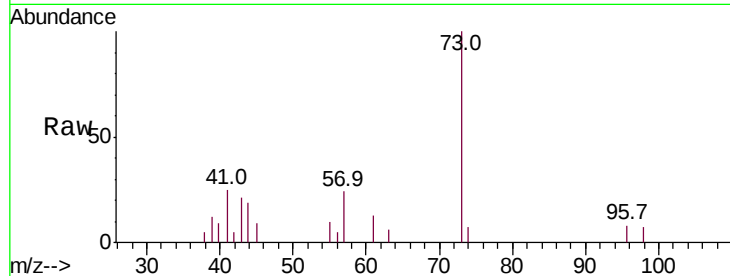
ClientSampleId :
MDL04

Tot Ion: 73 Resp: 4576

Ion	Ratio	Lower	Upper
73	100		
43	23.0	17.6	26.4
57	24.6	17.0	25.6

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#18

trans-1,2-Dichloroethene

Concen: 0.226 ug/L

RT: 2.79 min Scan# 528

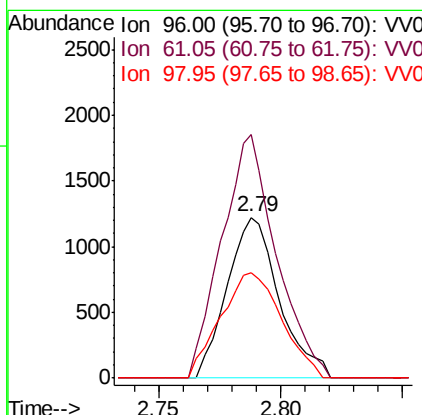
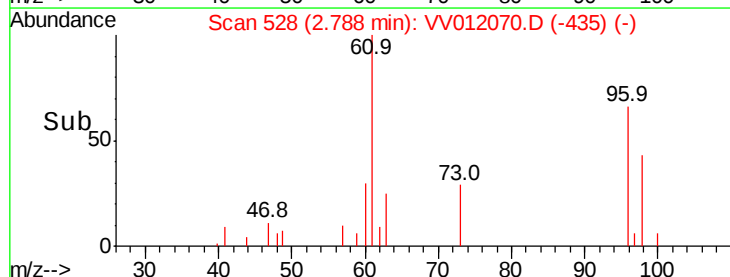
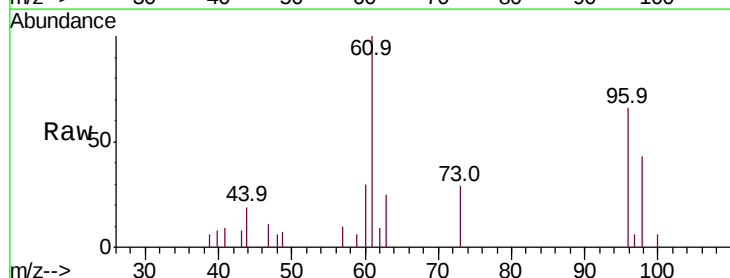
Delta R.T. -0.00 min

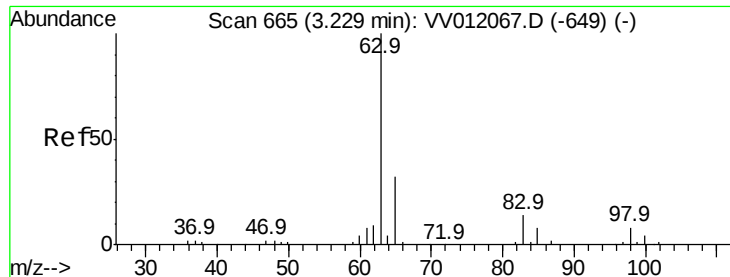
Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Tgt Ion: 96 Resp: 1806

Ion	Ratio	Lower	Upper
96	100		
61	138.3	97.2	180.6
98	59.8	45.0	83.6





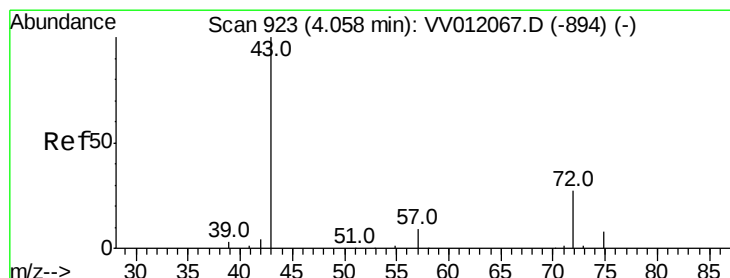
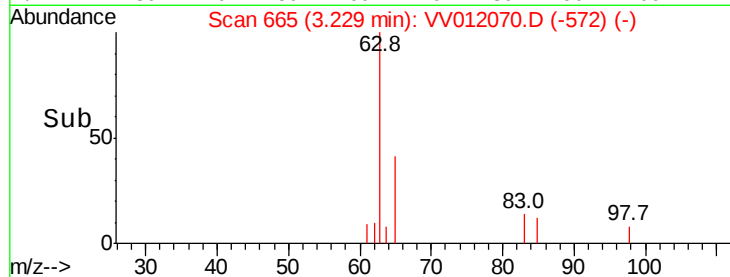
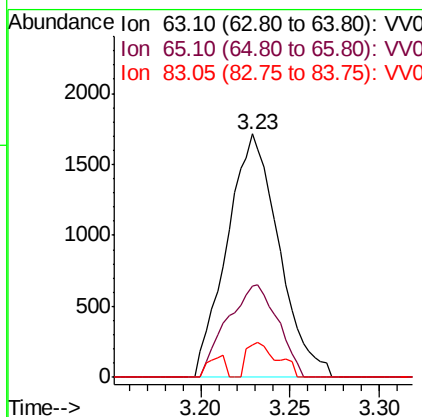
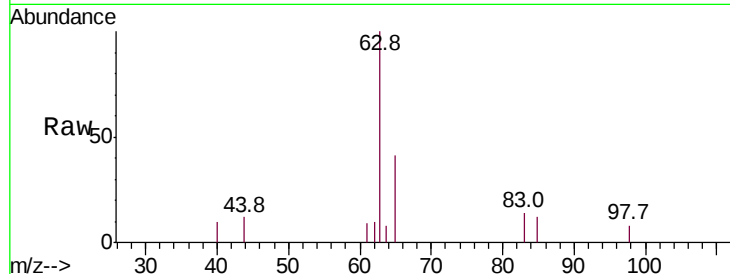
#19
 1,1-Dichloroethane
 Concen: 0.244 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV012070.D
 Acq: 30 Jul 2019 12:04

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion:	63	Resp:	3487
Ion	Ratio	Lower	Upper
63	100		
65	37.7	23.0	42.6
83	13.1	9.7	17.9

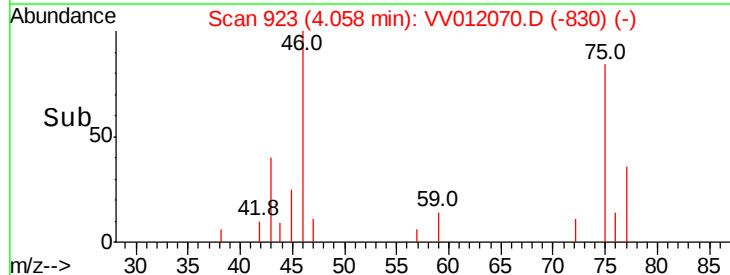
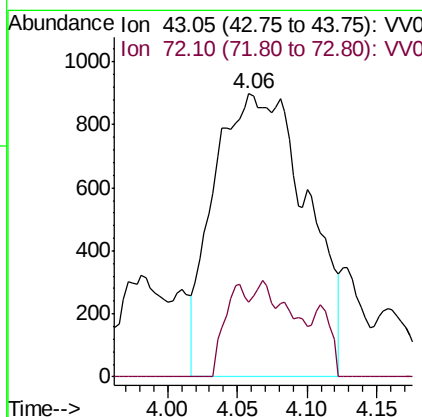
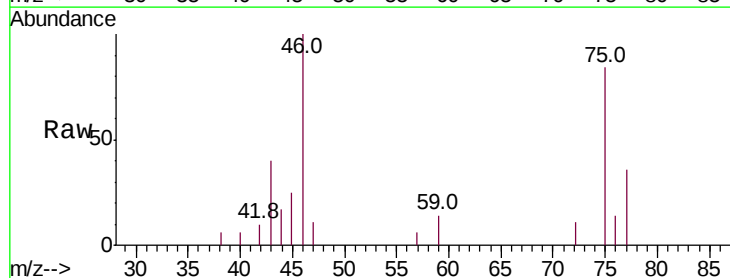
Manual Integrations
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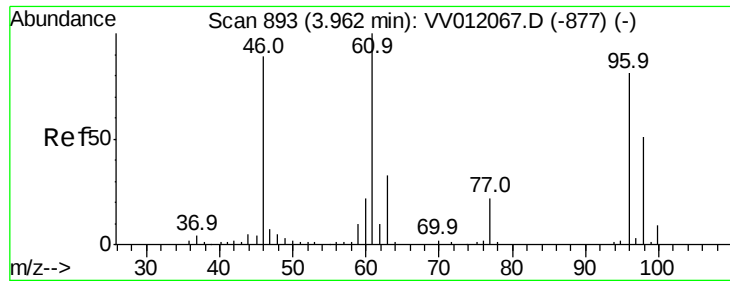
MMDadoda
 8/1/2019 3:18:21 PM



#21
 2-Butanone
 Concen: 2.477 ug/L m
 RT: 4.06 min Scan# 923
 Delta R.T. -0.00 min
 Lab File: VV012070.D
 Acq: 30 Jul 2019 12:04

Tgt Ion:	43	Resp:	4173
Ion	Ratio	Lower	Upper
43	100		
72	8.3	13.4	40.2#





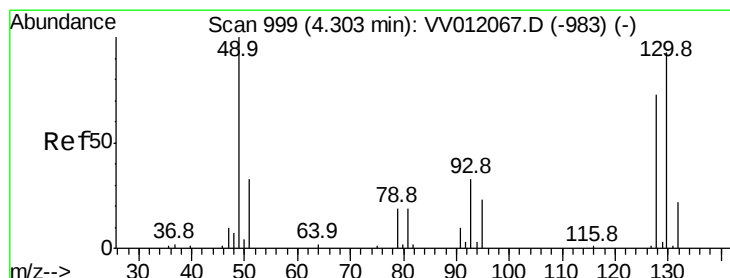
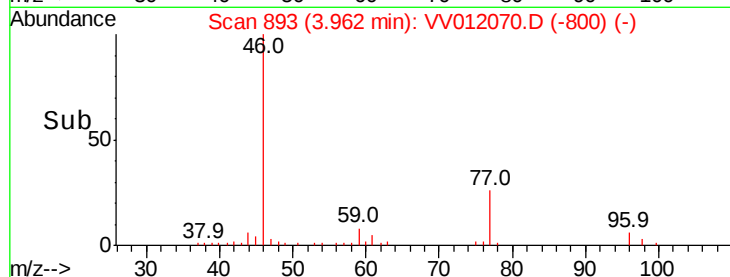
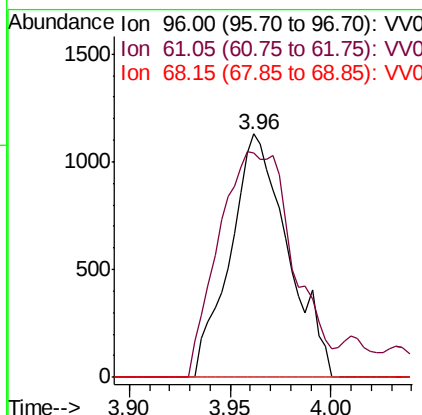
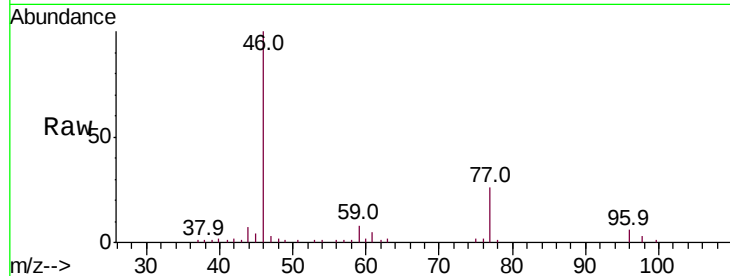
#22
 cis-1,2-Dichloroethene
 Concen: 0.263 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. -0.00 min
 Lab File: VV012070.D
 Acq: 30 Jul 2019 12:04

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
96	100		
61	92.4	90.0	167.2
68	0.0	0.0	0.0

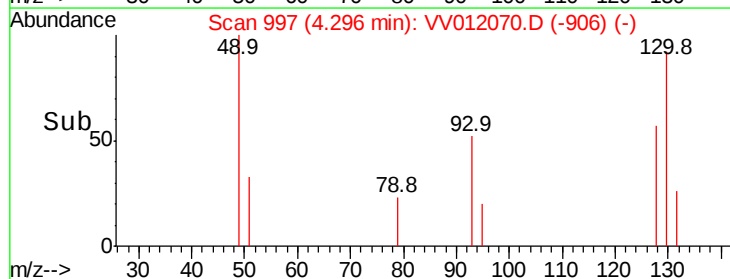
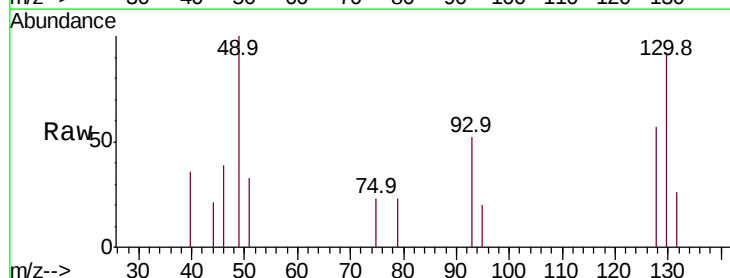
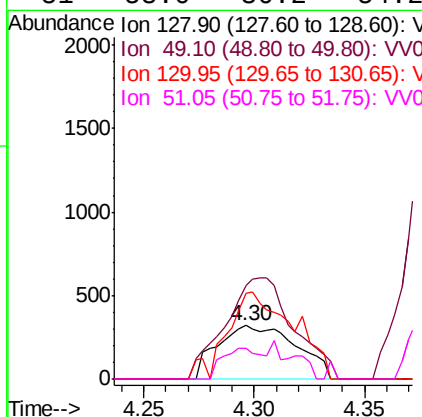
Manual Integrations
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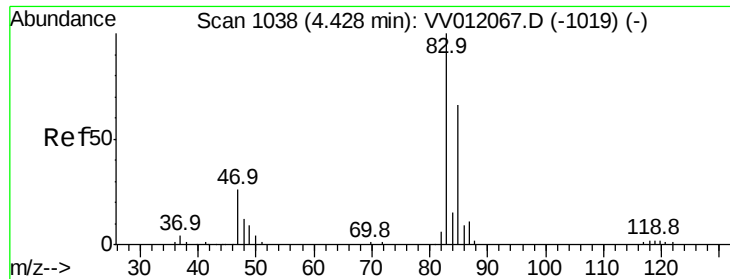
MMdadoda
 8/1/2019 3:18:21 PM



#23
 Bromochloromethane
 Concen: 0.212 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. -0.01 min
 Lab File: VV012070.D
 Acq: 30 Jul 2019 12:04

Tgt Ion	Ratio	Lower	Upper
128	100		
49	174.6	105.1	195.1
130	160.2	88.9	165.1
51	58.0	36.2	54.2





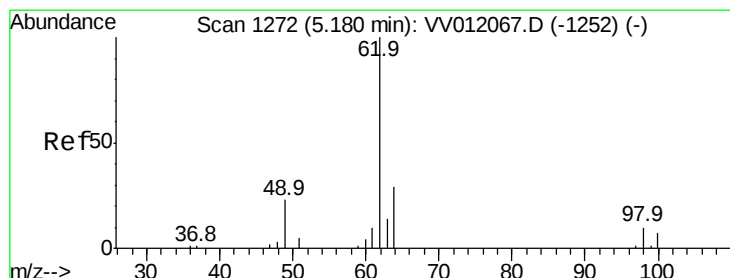
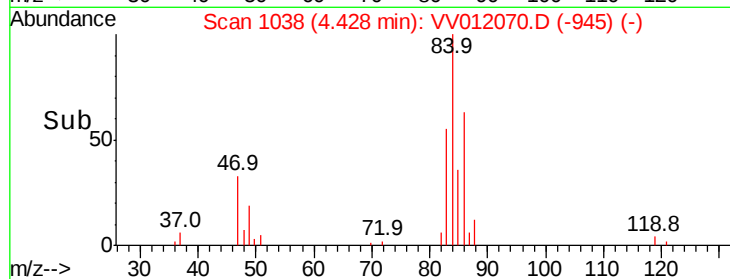
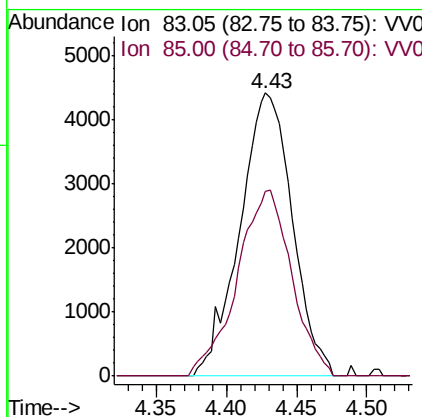
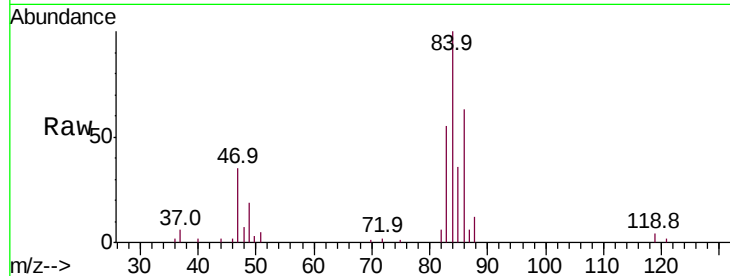
#25
Chloroform
Concen: 0.640 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VV012070.D
Acq: 30 Jul 2019 12:04

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion: 83 Resp: 11475
Ion Ratio Lower Upper
83 100
85 65.1 45.2 84.0

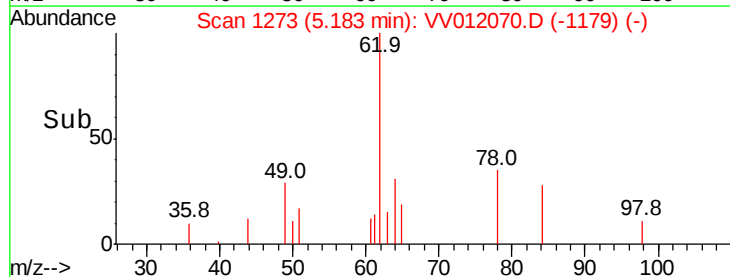
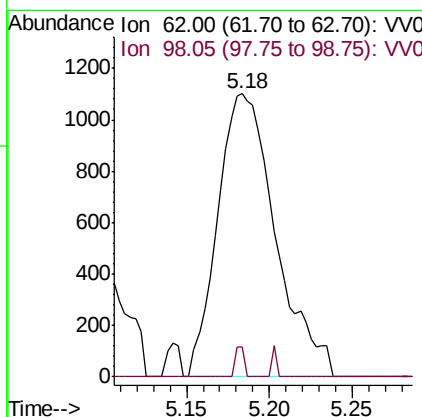
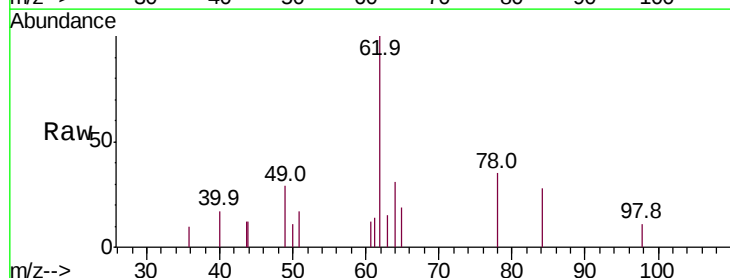
Manual Integrations
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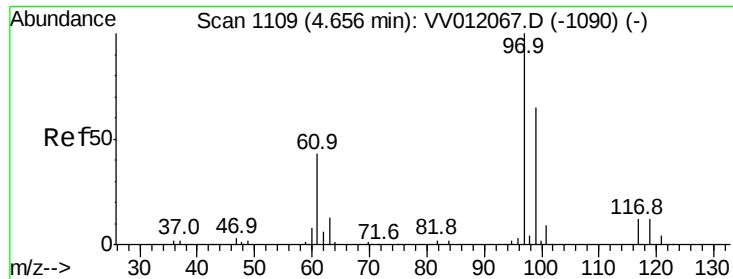
MMdadoda
8/1/2019 3:18:21 PM



#27
1,2-Dichloroethane
Concen: 0.270 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VV012070.D
Acq: 30 Jul 2019 12:04

Tgt Ion: 62 Resp: 2671
Ion Ratio Lower Upper
62 100
98 10.7 7.0 10.6#





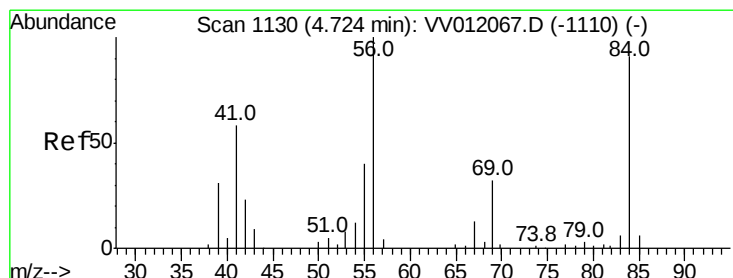
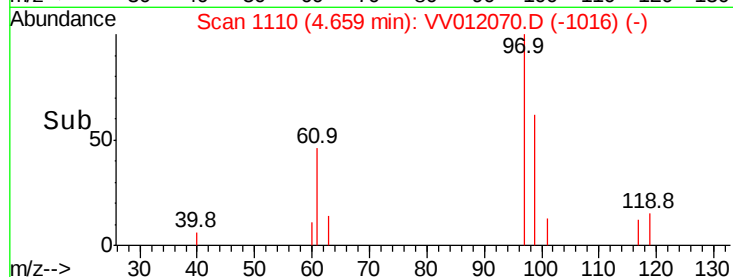
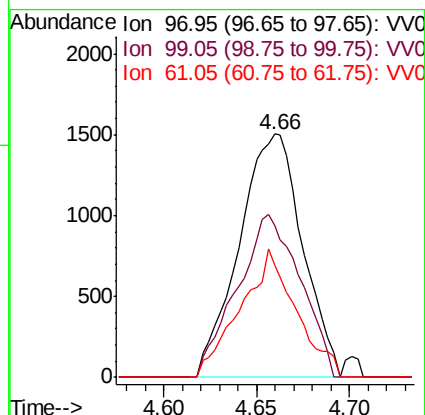
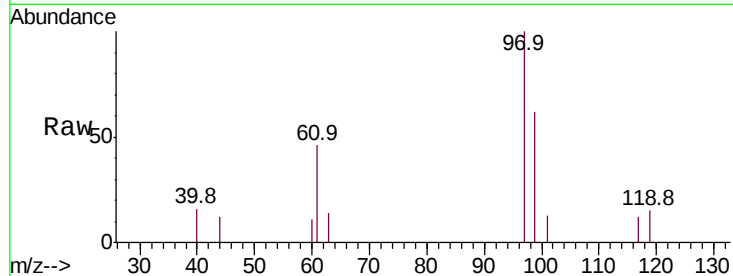
#29
1,1,1-Trichloroethane
Concen: 0.248 ug/L
RT: 4.66 min Scan# 1110
Delta R.T. 0.00 min
Lab File: VV012070.D
Acq: 30 Jul 2019 12:04

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
97	100		
99	66.8	51.8	77.8
61	46.1	34.5	51.7

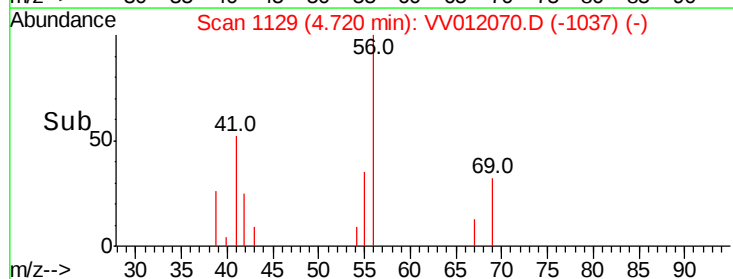
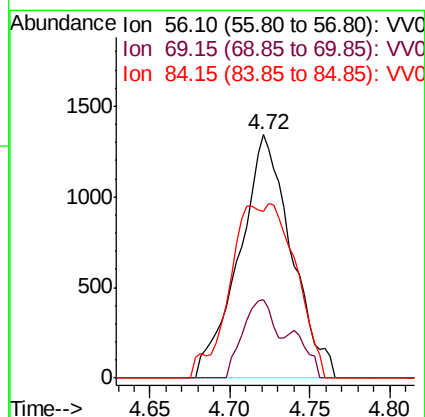
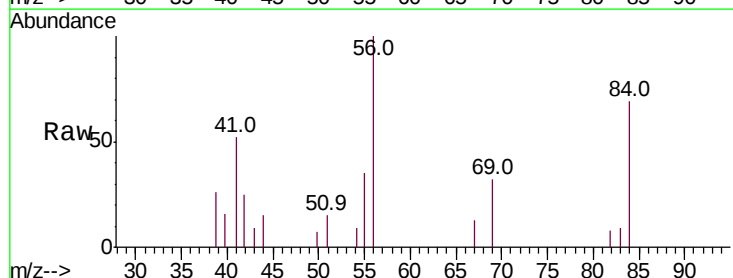
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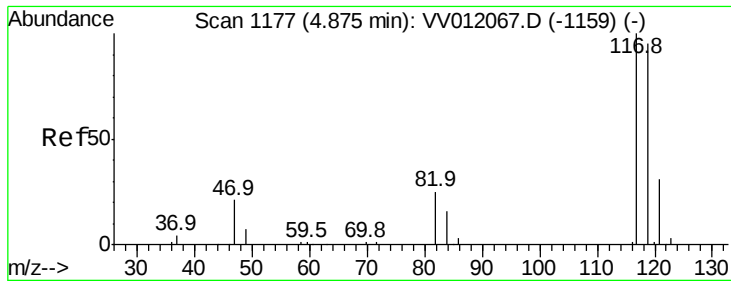
MMDadoda
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#30
Cyclohexane
Concen: 0.242 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VV012070.D
Acq: 30 Jul 2019 12:04

Tgt Ion	Ratio	Lower	Upper
56	100		
69	20.6	24.8	37.2#
84	47.2	75.4	113.2#





#31

Carbon tetrachloride

Concen: 0.246 ug/L

RT: 4.88 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion:117 Resp: 3199

Ion Ratio Lower Upper

117 100

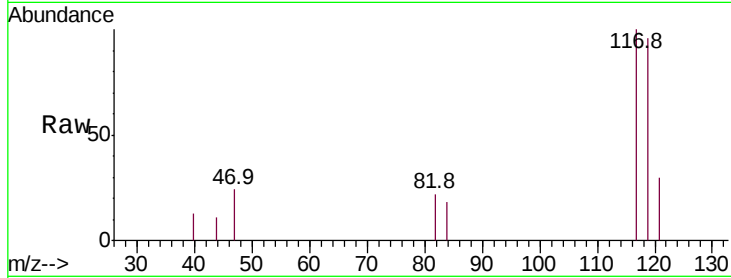
119 89.7 77.7 116.5

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MMdadoda

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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.88

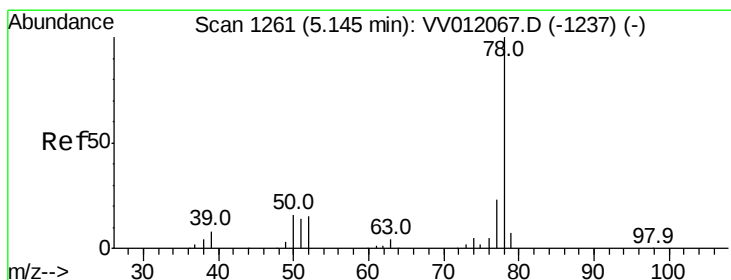
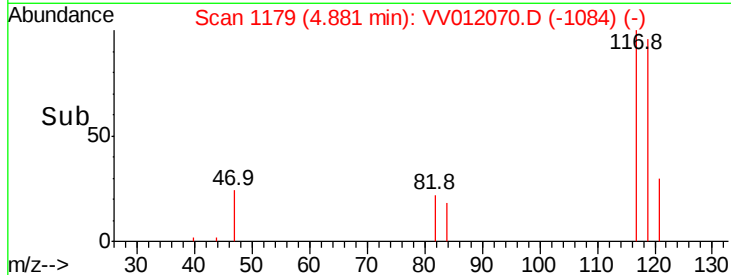
1500

1000

500

0

Time-->



#33

Benzene

Concen: 0.255 ug/L

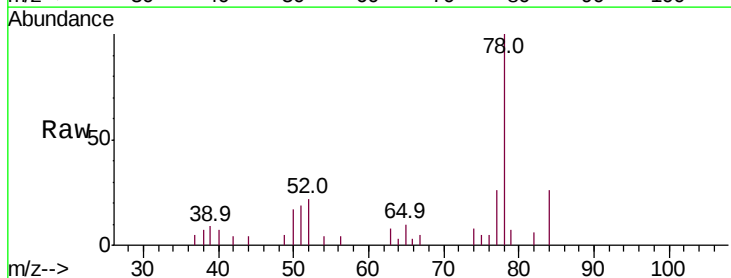
RT: 5.15 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Tgt Ion: 78 Resp: 8105



Abundance Ion 78.10 (77.80 to 78.80): VV0

5.15

4000

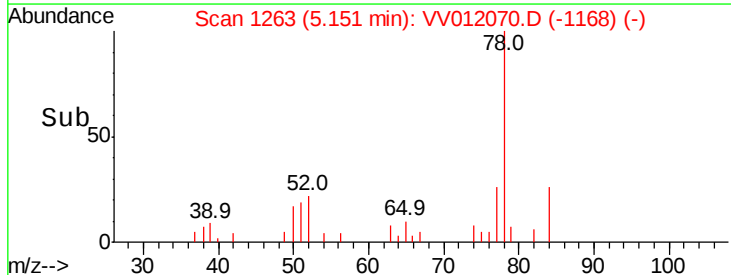
3000

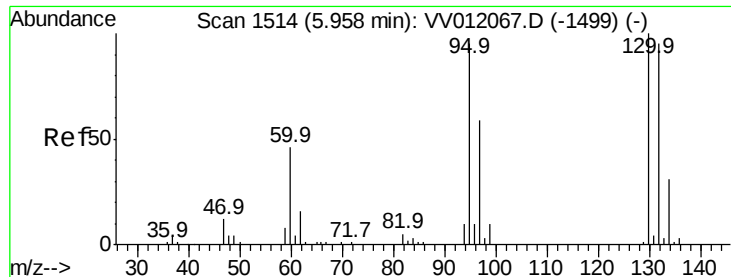
2000

1000

0

Time-->





#34

Trichloroethene

Concen: 0.232 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 95 Resp: 2096

Ion Ratio Lower Upper

95 100

97 61.5 42.8 79.6

132 78.2 70.8 131.6

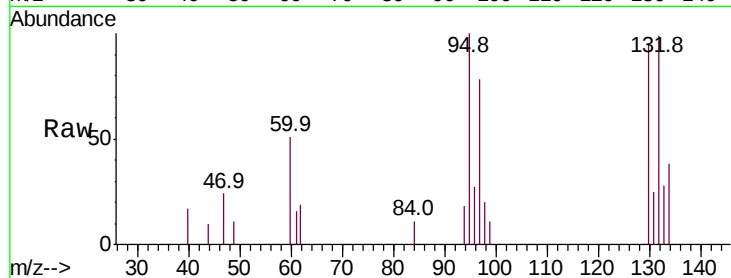
130 74.8 72.3 134.3

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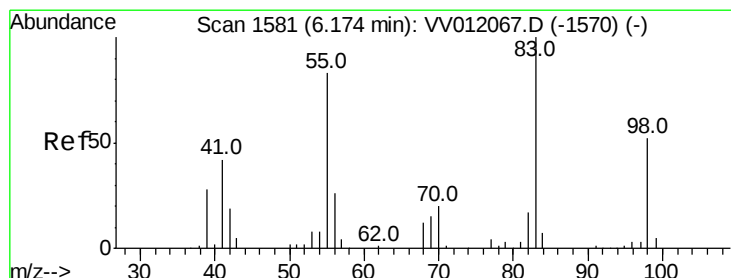
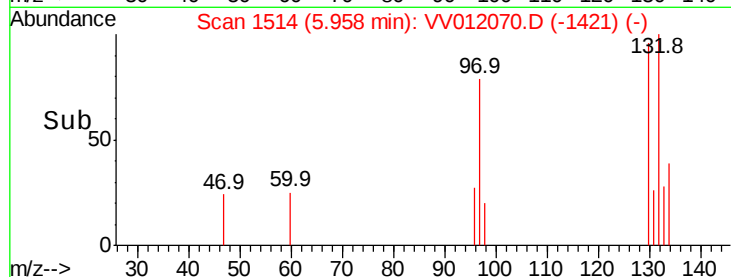
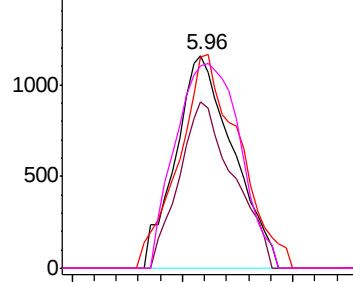


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 0.240 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

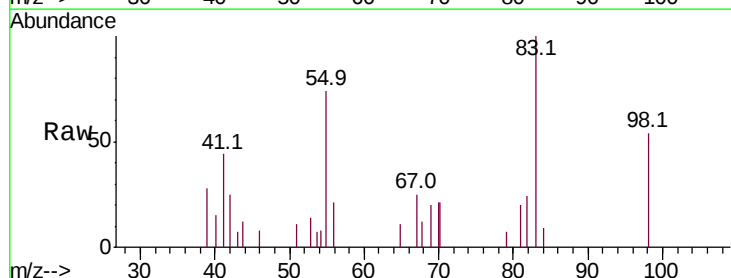
Tgt Ion: 83 Resp: 3408

Ion Ratio Lower Upper

83 100

55 71.2 60.1 90.1

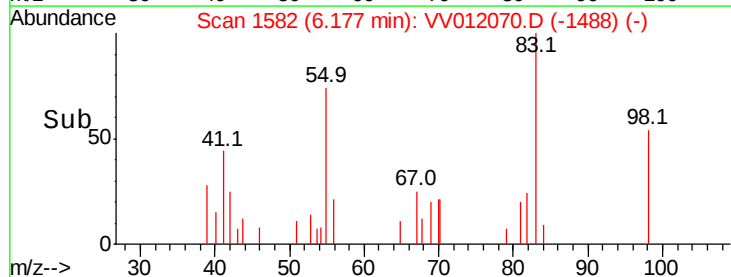
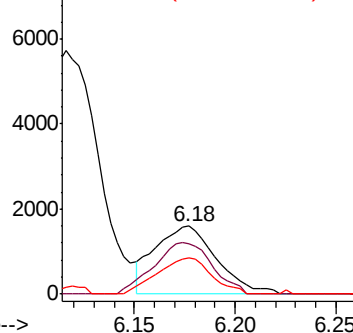
98 47.3 40.2 60.4

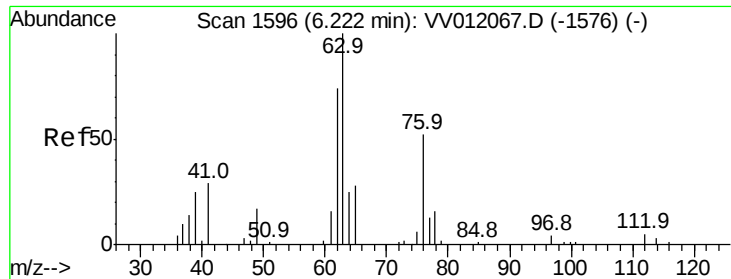


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





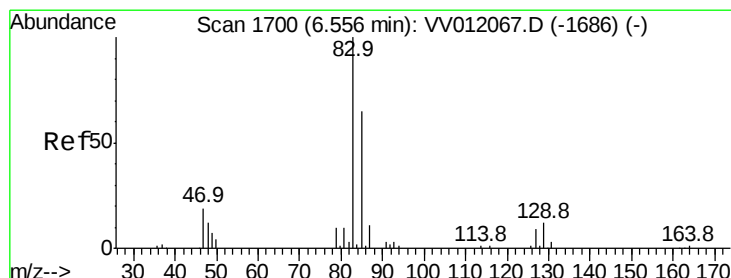
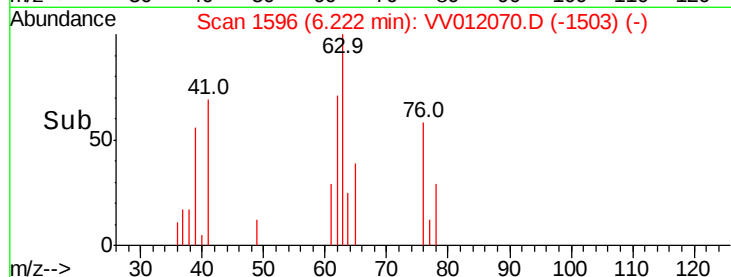
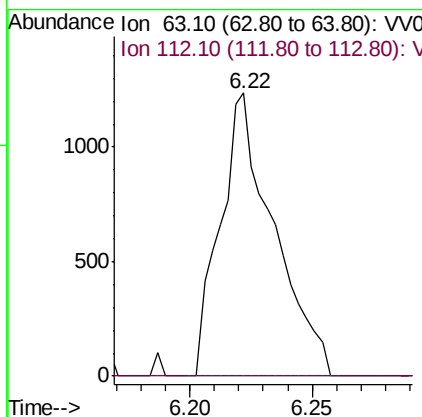
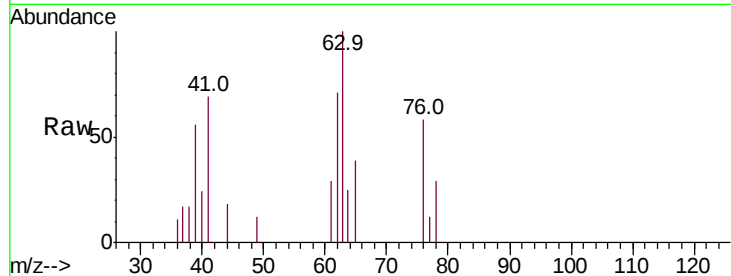
#37
 1,2-Dichloropropane
 Concen: 0.257 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. -0.00 min
 Lab File: VV012070.D
 Acq: 30 Jul 2019 12:04

Instrument :
 MSVOA_V
 ClientSampled :
 MDL04

Tot Ion: 63 Resp: 1885
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.8 5.6#

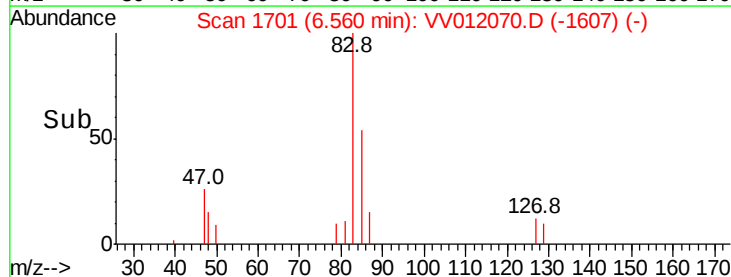
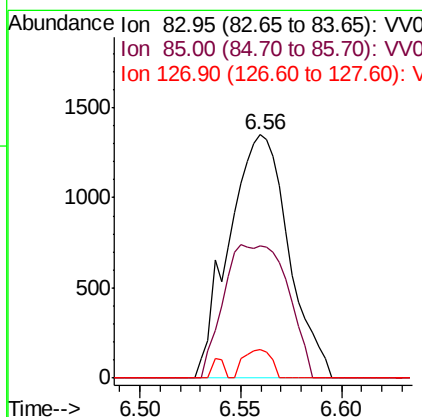
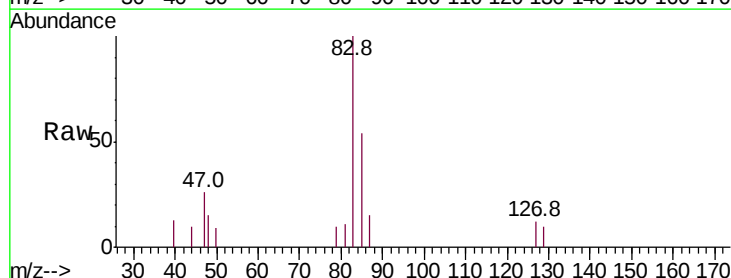
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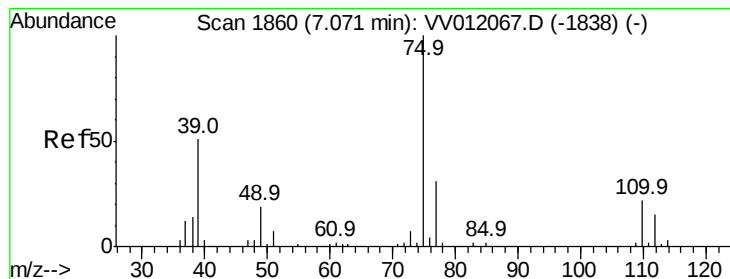
MMdadoda
 8/1/2019 3:18:21 PM



#38
 Bromodichloromethane
 Concen: 0.267 ug/L
 RT: 6.56 min Scan# 1701
 Delta R.T. 0.00 min
 Lab File: VV012070.D
 Acq: 30 Jul 2019 12:04

Tgt Ion: 83 Resp: 2773
 Ion Ratio Lower Upper
 83 100
 85 54.2 43.9 81.5
 127 11.8 6.9 10.3#





#39

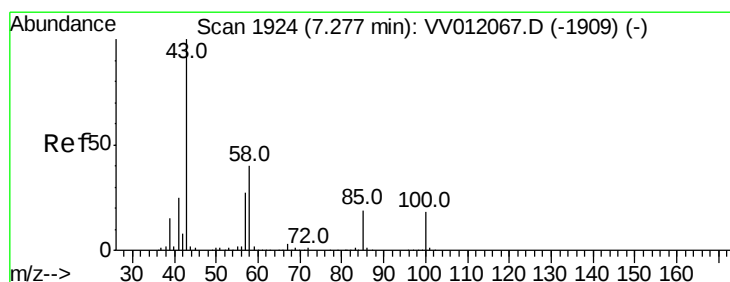
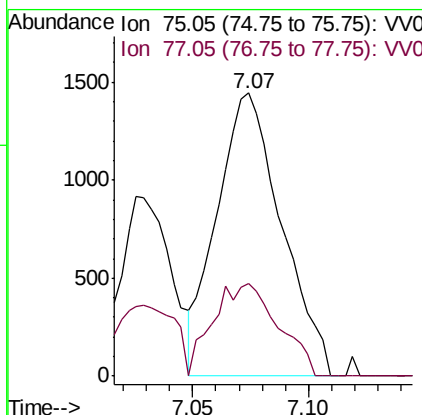
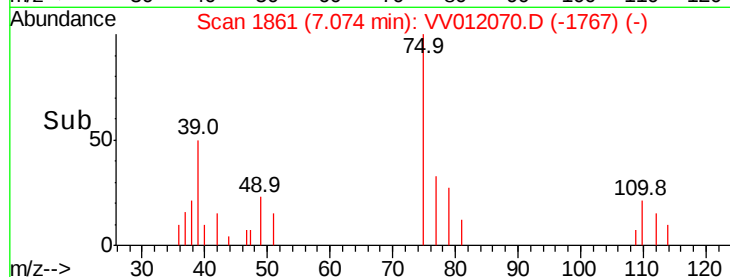
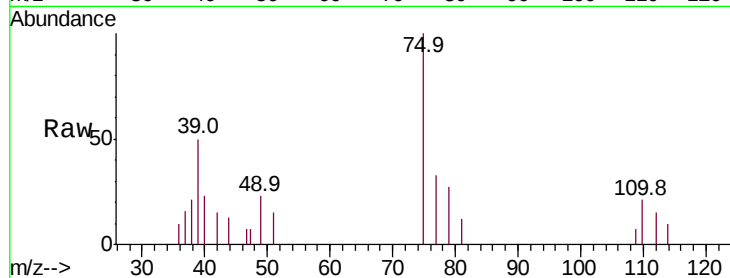
cis-1,3-Dichloropropene
Concen: 0.243 ug/L
RT: 7.07 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VV012070.D
Acq: 30 Jul 2019 12:04

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.8	22.4	41.6

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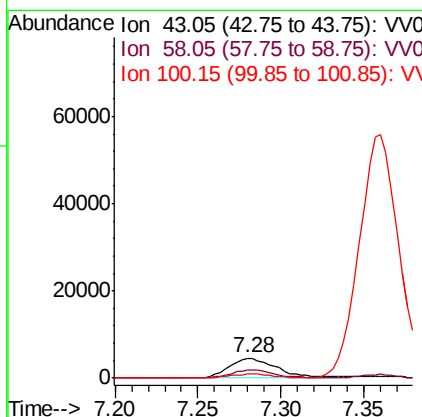
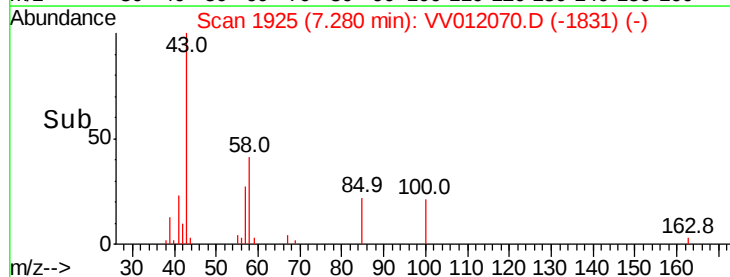
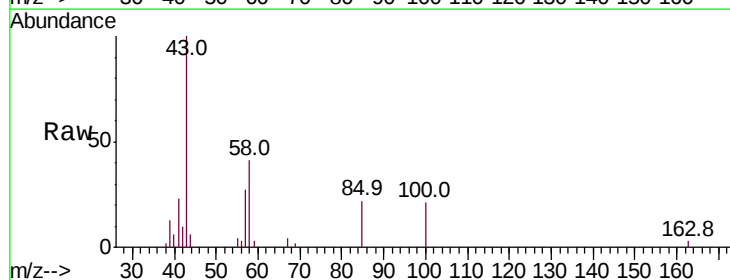
MMdadoda
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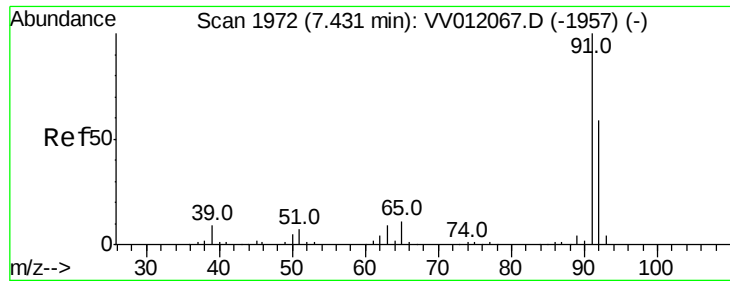


#40

4-Methyl-2-pentanone
Concen: 2.231 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. 0.00 min
Lab File: VV012070.D
Acq: 30 Jul 2019 12:04

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.5	31.9	47.9
100	0.0	14.0	21.0#





#42

Toluene

Concen: 0.256 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion: 91 Resp: 9028

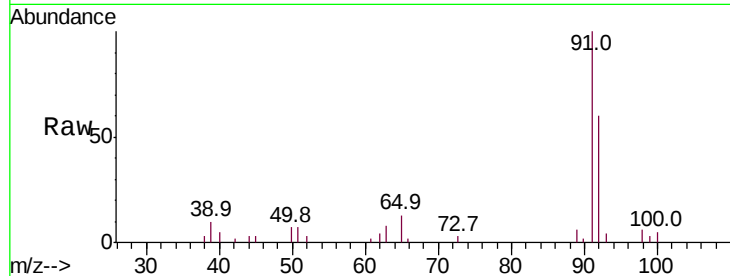
Ion Ratio Lower Upper

91 100

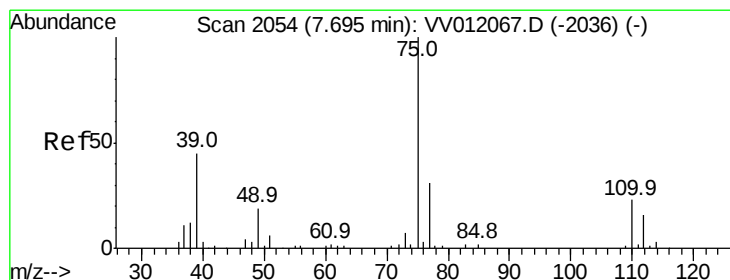
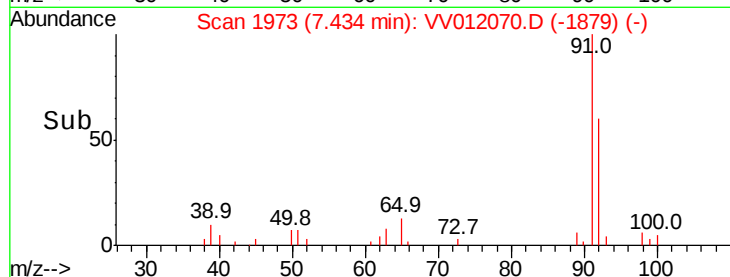
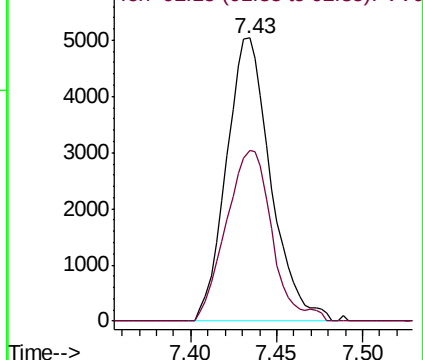
92 60.1 41.3 76.7

Manual Integrations
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Abundance Ion 91.15 (90.85 to 91.85): VV0
Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.254 ug/L

RT: 7.70 min Scan# 2056

Delta R.T. 0.01 min

Lab File: VV012070.D

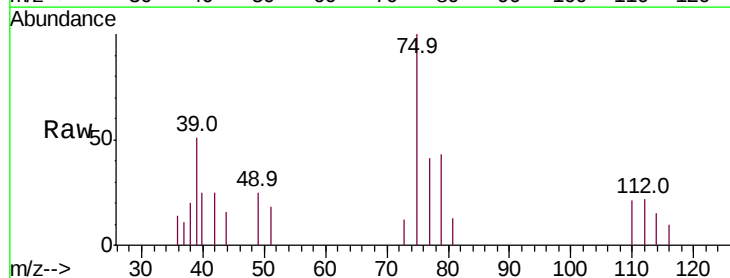
Acq: 30 Jul 2019 12:04

Tgt Ion: 75 Resp: 2361

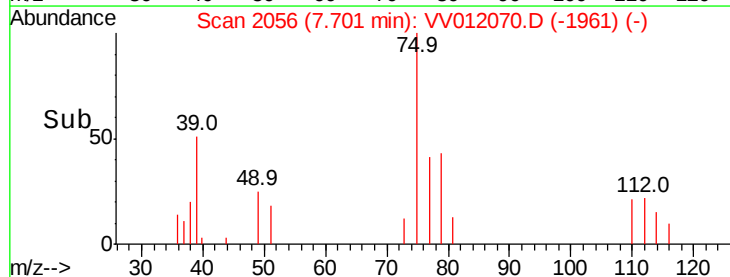
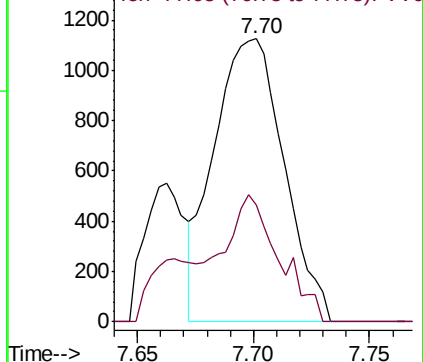
Ion Ratio Lower Upper

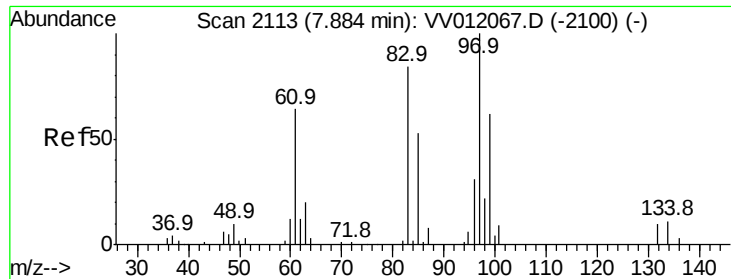
75 100

77 41.4 21.6 40.0#



Abundance Ion 75.05 (74.75 to 75.75): VV0
Ion 77.05 (76.75 to 77.75): VV0





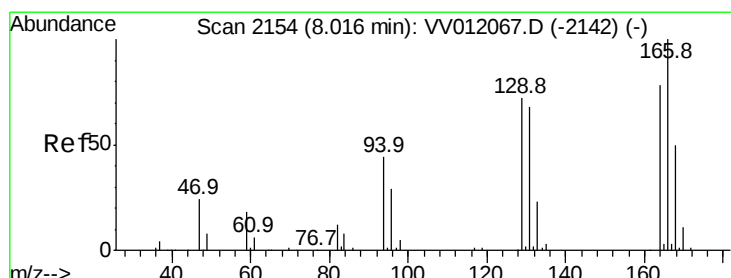
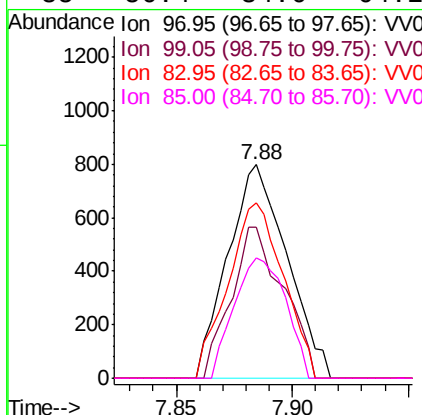
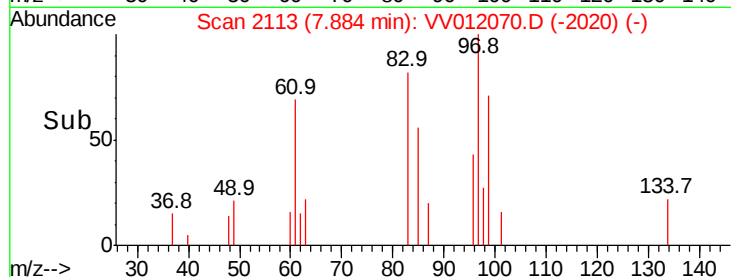
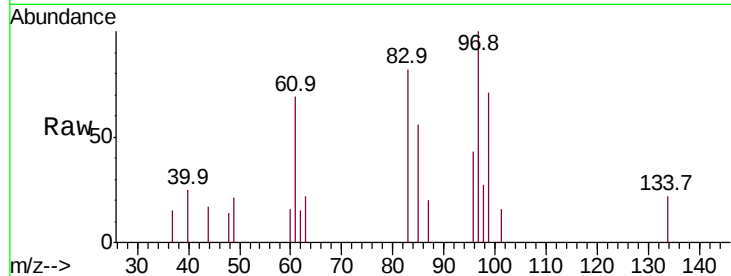
#45
1,1,2-Trichloroethane
Concen: 0.252 ug/L
RT: 7.88 min Scan# 2113
Delta R.T. -0.00 min
Lab File: VV012070.D
Acq: 30 Jul 2019 12:04

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion	97	Resp	1411
Ion	Ratio	Lower	Upper
97	100		
99	70.8	42.0	78.0
83	82.1	57.6	107.0
85	56.4	34.6	64.2

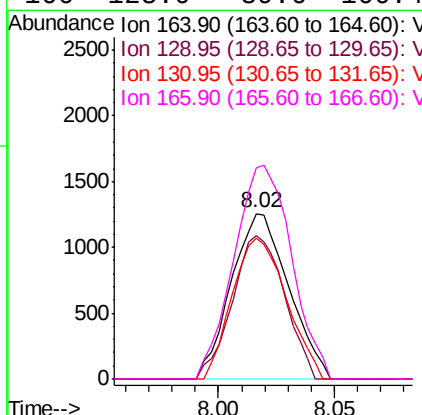
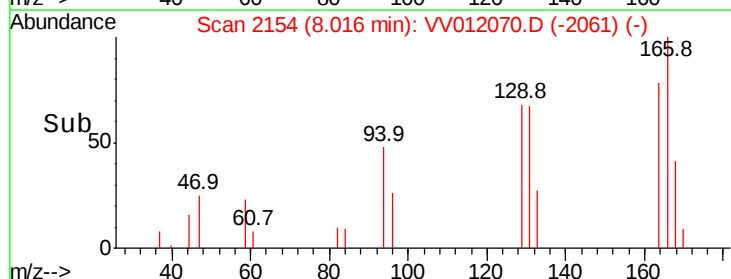
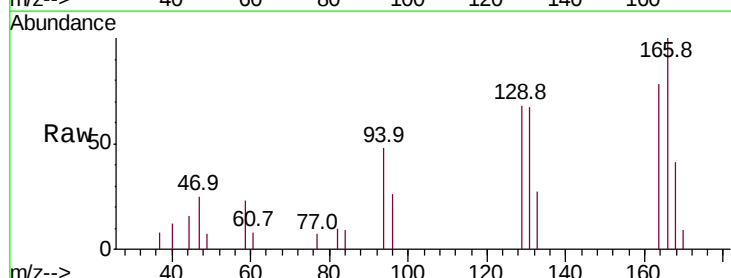
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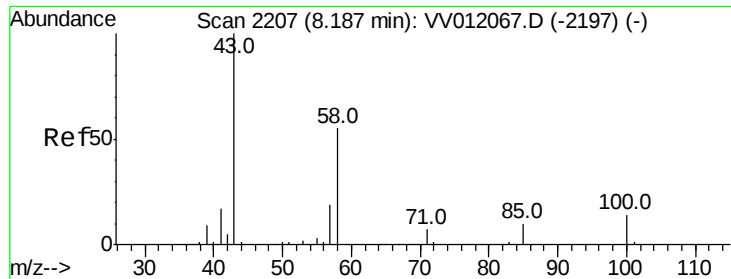
MMdadoda
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#47
Tetrachloroethene
Concen: 0.273 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.00 min
Lab File: VV012070.D
Acq: 30 Jul 2019 12:04

Tgt Ion	164	Resp	2157
Ion	Ratio	Lower	Upper
164	100		
129	86.6	61.9	114.9
131	85.3	59.4	110.4
166	128.0	89.6	166.4





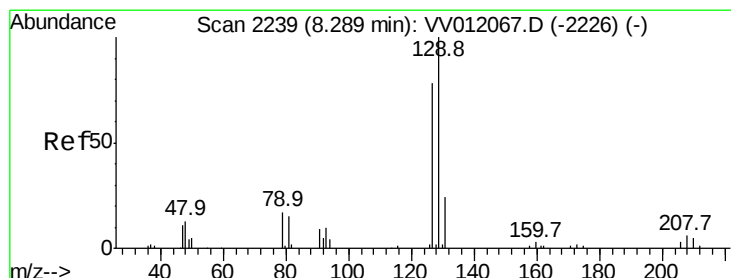
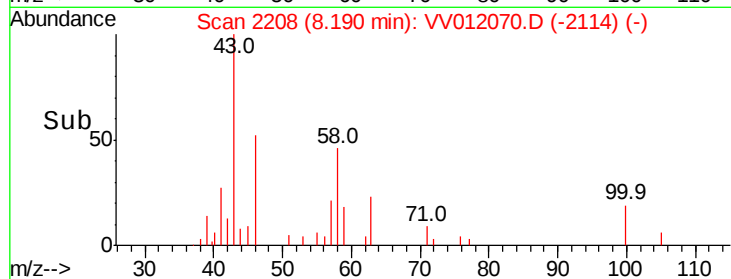
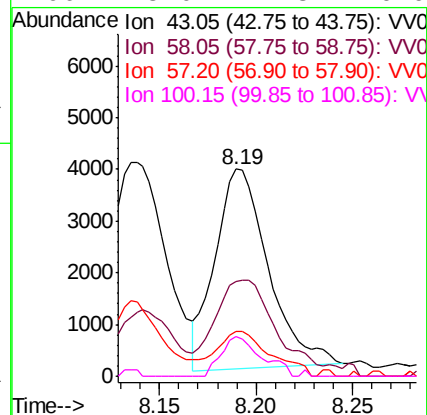
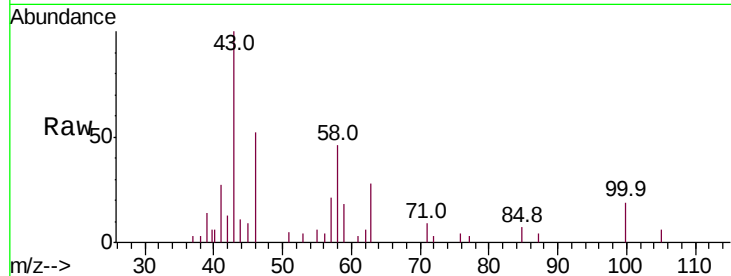
#48
2-Hexanone
Concen: 2.531 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VV012070.D
Acq: 30 Jul 2019 12:04

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.0	44.1	66.1
57	23.3	16.1	24.1
100	15.0	11.3	16.9

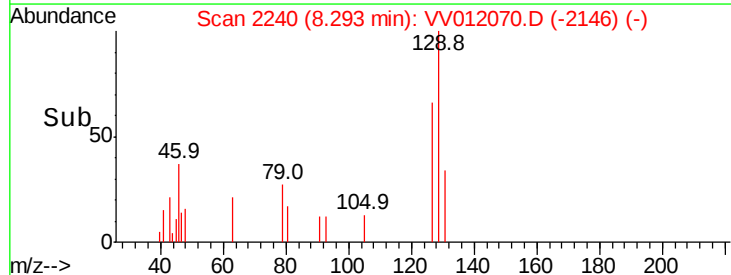
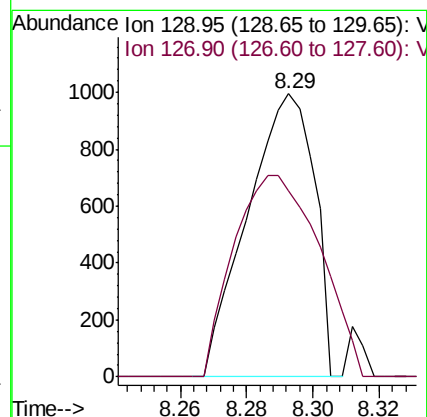
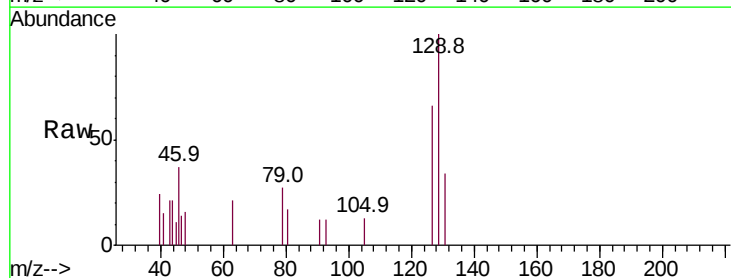
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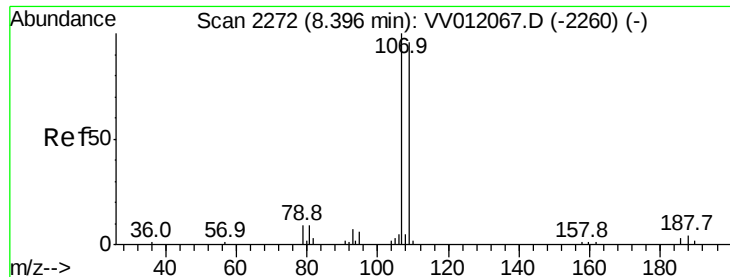
MMdadoda
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#49
Dibromochloromethane
Concen: 0.203 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV012070.D
Acq: 30 Jul 2019 12:04

Tgt Ion	Ratio	Lower	Upper
129	100		
127	65.7	55.4	102.8





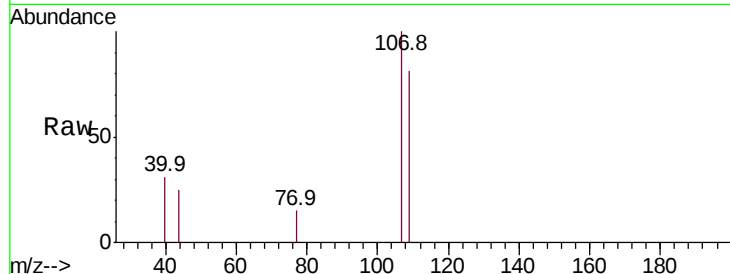
#50
 1,2-Dibromoethane
 Concen: 0.258 ug/L
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VV012070.D
 Acq: 30 Jul 2019 12:04

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Resp	Lower	Upper
107	100	1351		
109	80.8	66.3	123.1	
188	0.0	3.4	5.0#	

Manual Integrations
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MMdadoda
 8/1/2019 3:18:21 PM

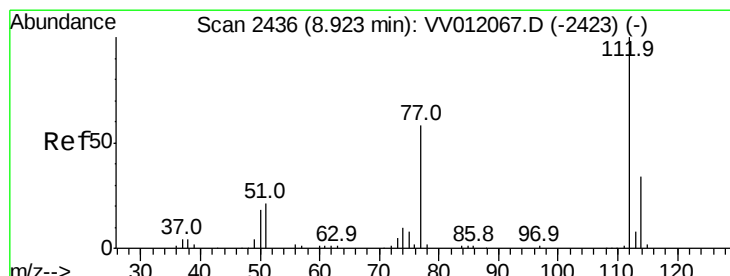
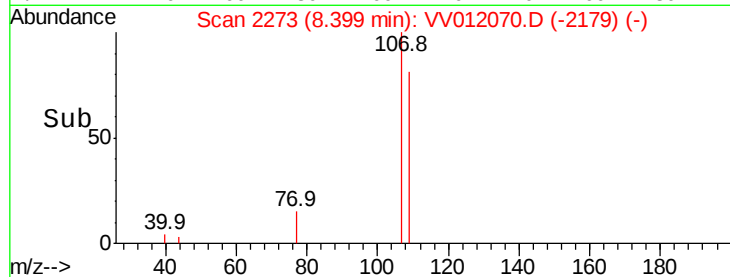
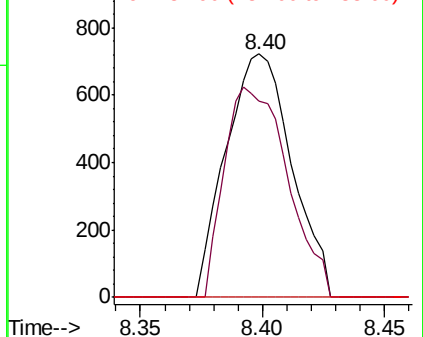


Abundance

Ion 106.95 (106.65 to 107.65): V

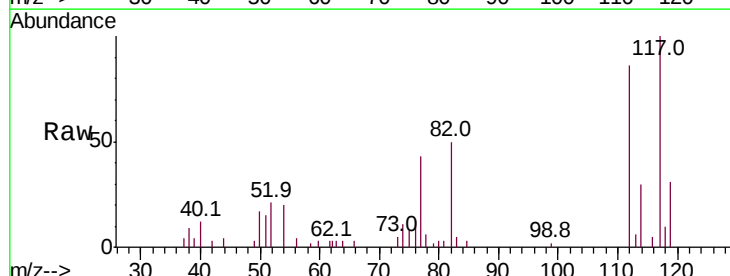
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
 Chlorobenzene
 Concen: 0.254 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. -0.00 min
 Lab File: VV012070.D
 Acq: 30 Jul 2019 12:04

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	5987		
114	34.2	22.1	41.1	
77	49.4	45.9	68.9	

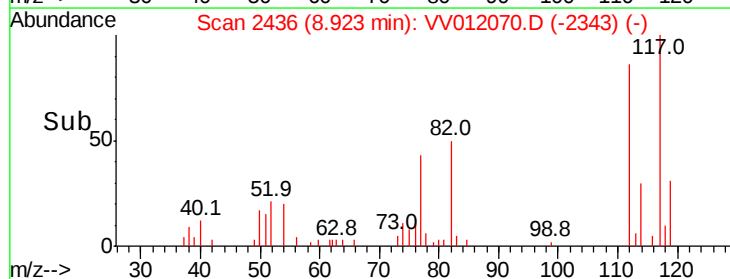
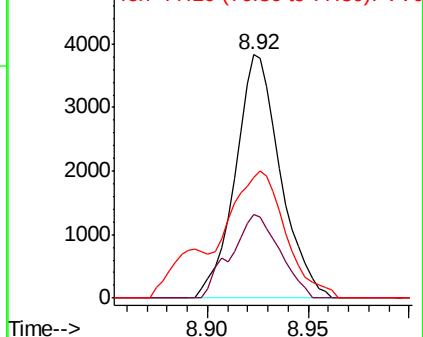


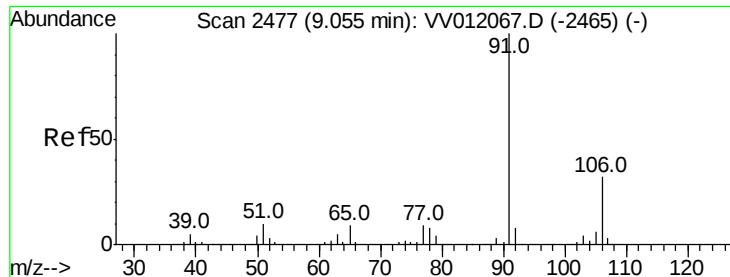
Abundance

Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#52

Ethylbenzene

Concen: 0.231 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 91 Resp: 9300

Ion Ratio Lower Upper

91 100

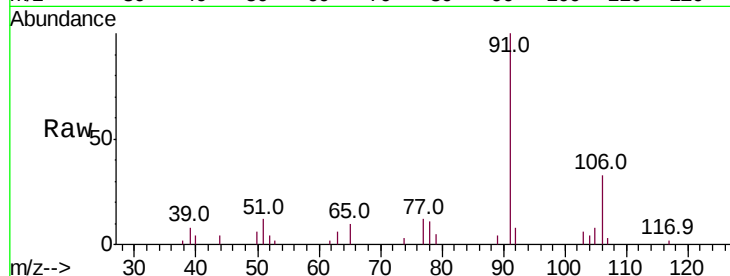
106 32.6 21.6 40.2

Manual Integrations

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Abundance Ion 91.15 (90.85 to 91.85): VV012070.D (-2384) (-)

Ion 106.15 (105.85 to 106.85): VV012070.D (-2384) (-)

9.05

6000

5000

4000

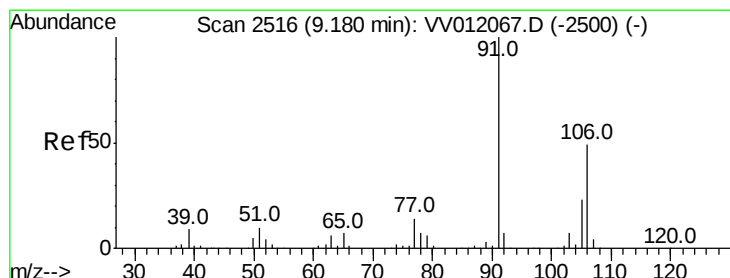
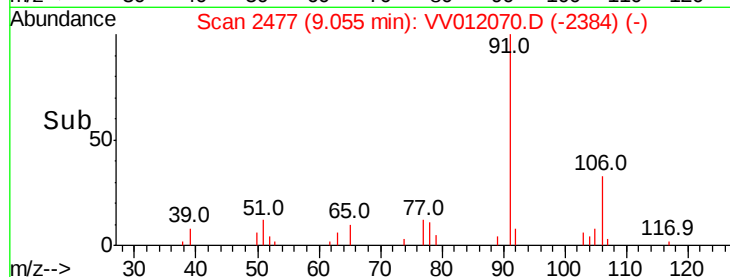
3000

2000

1000

0

Time-->



#53

m,p-xylene

Concen: 0.247 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV012070.D

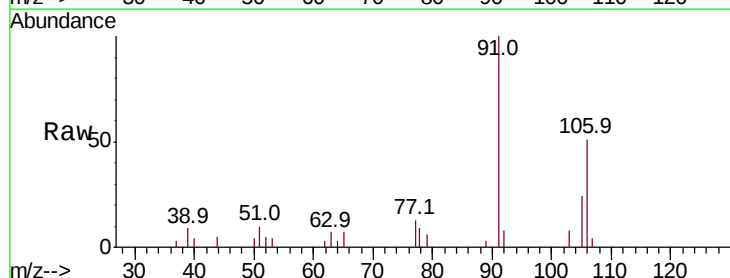
Acq: 30 Jul 2019 12:04

Tgt Ion: 106 Resp: 3794

Ion Ratio Lower Upper

106 100

91 180.7 141.6 263.0



Abundance Ion 106.15 (105.85 to 106.85): VV012070.D (-2423) (-)

Ion 91.15 (90.85 to 91.85): VV012070.D (-2423) (-)

9.18

5000

4000

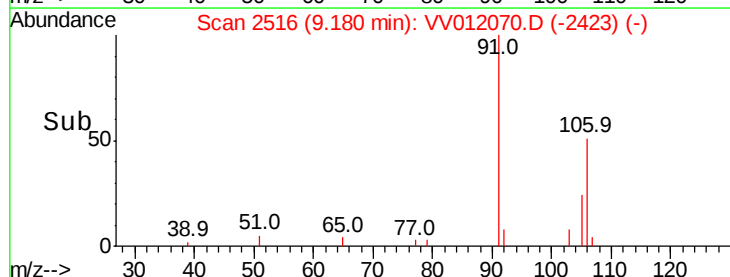
3000

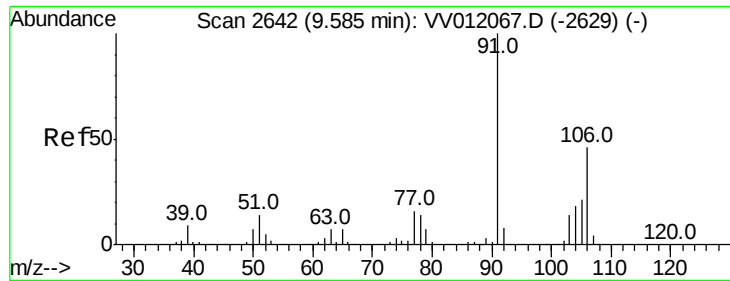
2000

1000

0

Time-->





#54

o-xylene

Concen: 0.213 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion:106 Resp: 3097

Ion Ratio Lower Upper

106 100

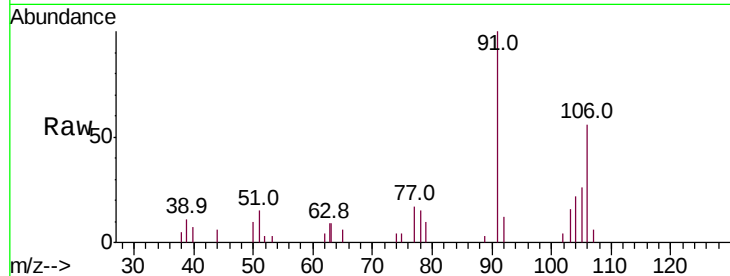
91 177.8 146.8 272.6

Manual Integrations

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Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0

4000

3000

2000

1000

0

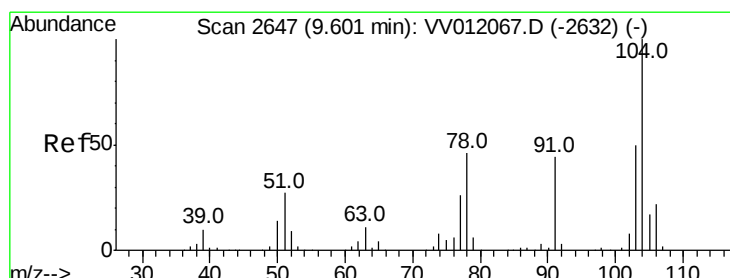
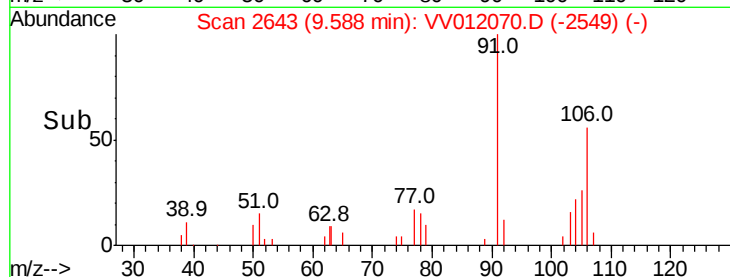
9.55

9.60

9.65

9.59

Time-->



#55

Styrene

Concen: 0.204 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV012070.D

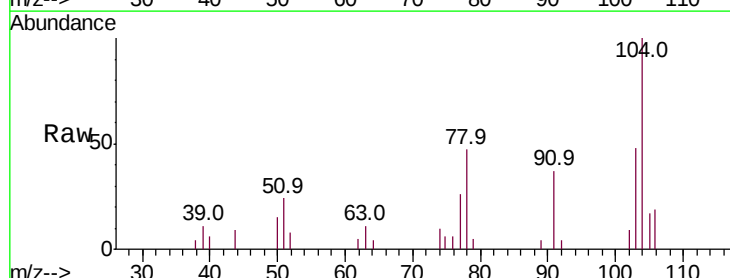
Acq: 30 Jul 2019 12:04

Tgt Ion:104 Resp: 4975

Ion Ratio Lower Upper

104 100

78 47.2 33.3 61.9



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0

3000

2000

1000

0

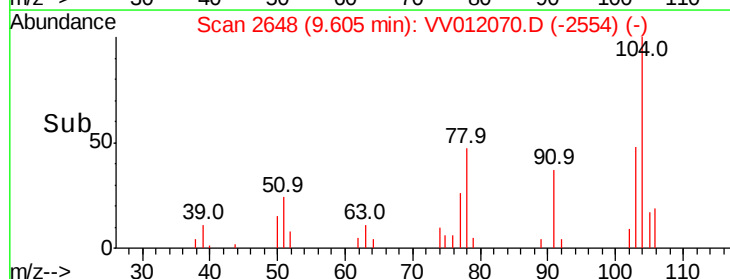
9.55

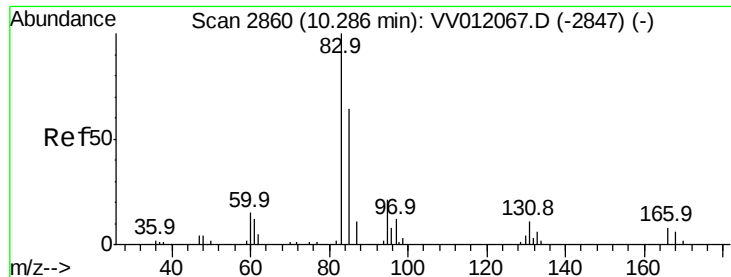
9.60

9.65

9.60

Time-->





#57

1,1,2,2-Tetrachloroethane

Concen: 0.266 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Instrument :

MSVOA_V

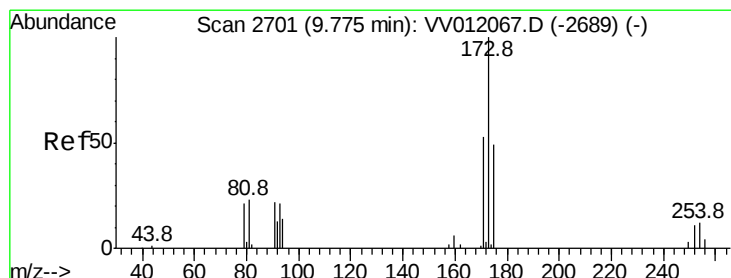
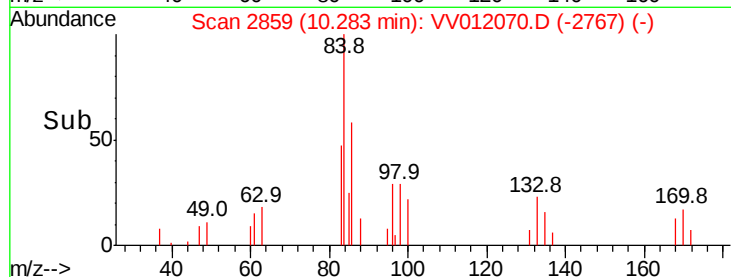
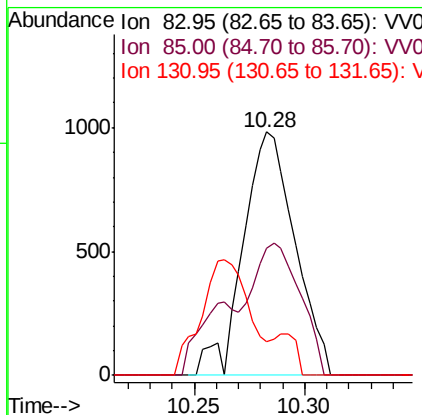
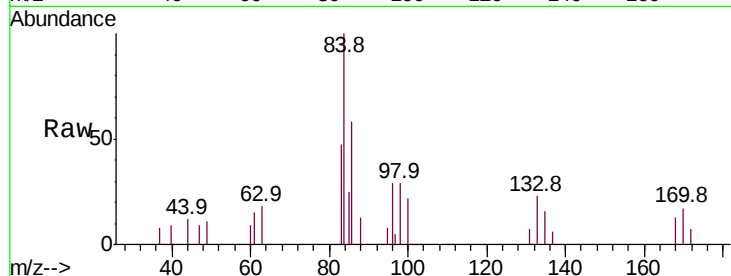
ClientSampled :

MDL04

Tot Ion:	83	Resp:	1599
Ion	Ratio	Lower	Upper
83	100		
85	52.2	44.0	81.6
131	14.1	8.3	12.5#

Manual Integrations
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#59

Bromoform

Concen: 0.289 ug/L

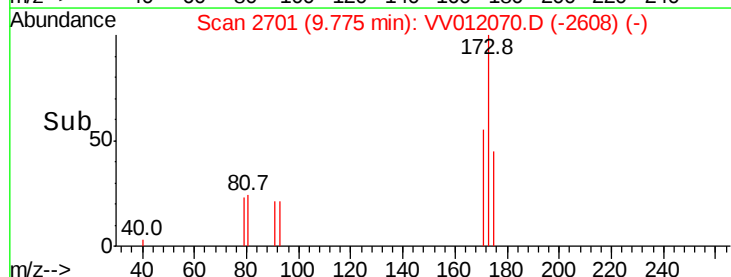
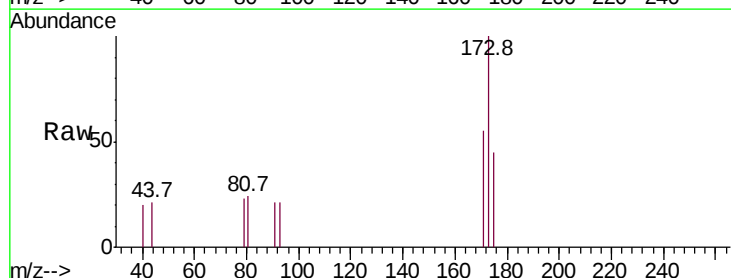
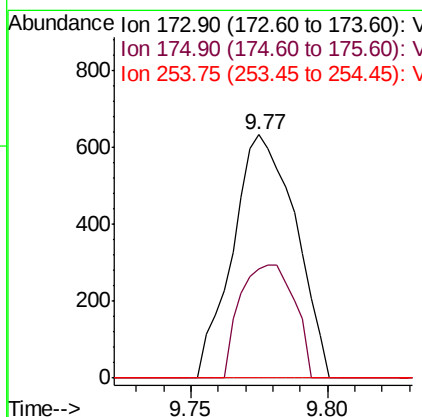
RT: 9.77 min Scan# 2701

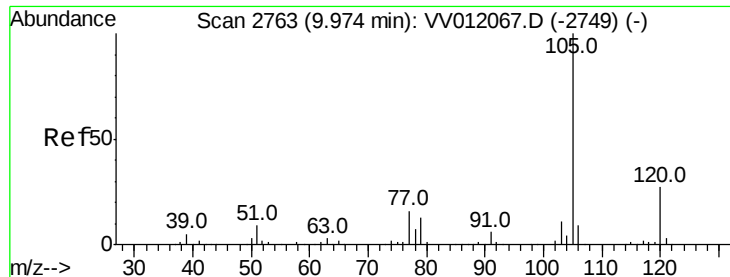
Delta R.T. -0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Tgt Ion:	173	Resp:	1014
Ion	Ratio	Lower	Upper
173	100		
175	40.3	38.3	57.5
254	0.0	8.6	13.0#





#60

Isopropylbenzene

Concen: 0.234 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Instrument :

MSVOA_V

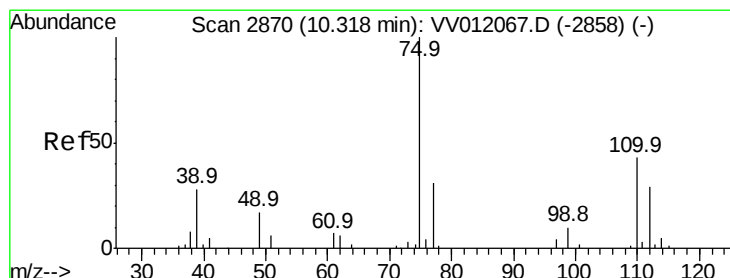
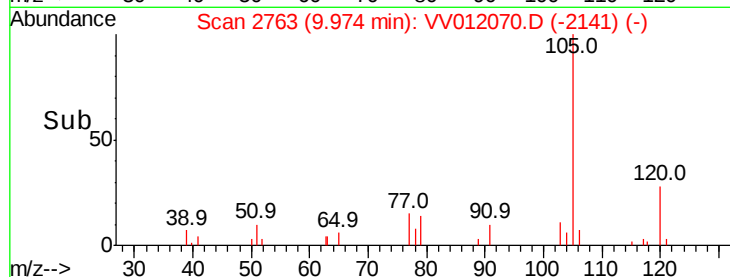
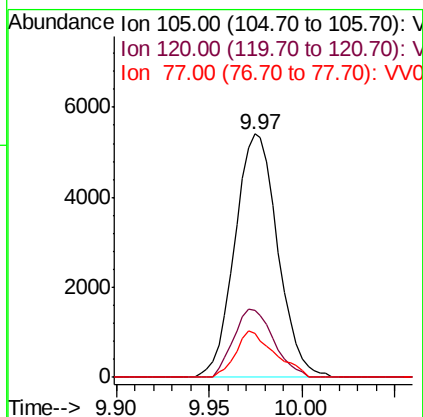
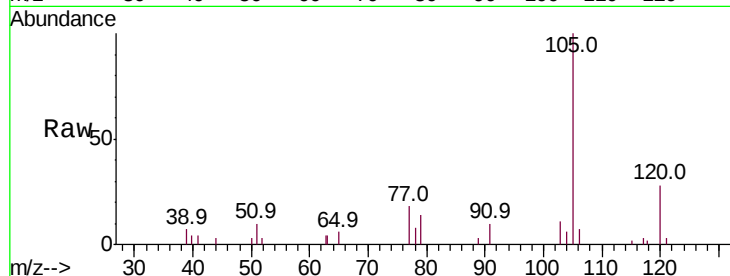
ClientSampleId :

MDL04

Tot Ion:	105	Resp:	8675
Ion Ratio	Lower	Upper	
105	100		
120	26.2	21.5	32.3
77	17.2	12.3	18.5

Manual Integrations
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#61

1,2,3-Trichloropropane

Concen: 0.274 ug/L

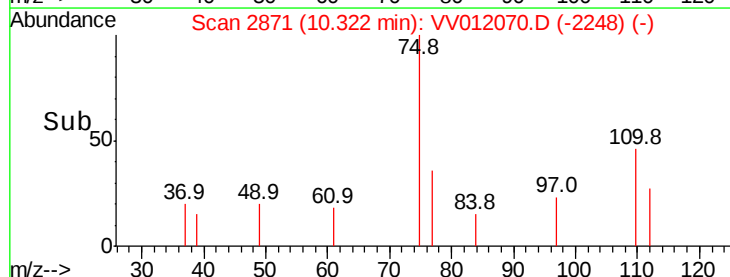
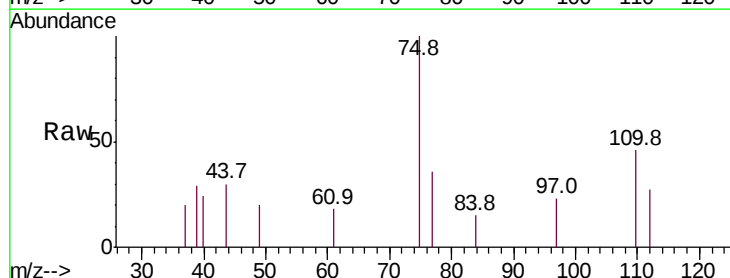
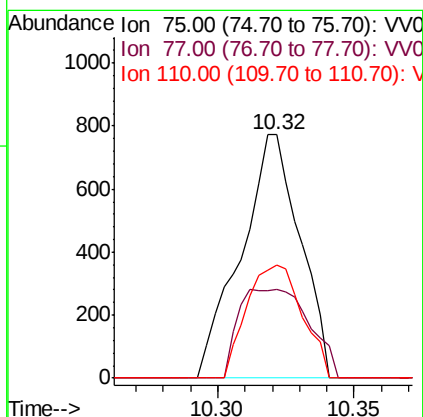
RT: 10.32 min Scan# 2871

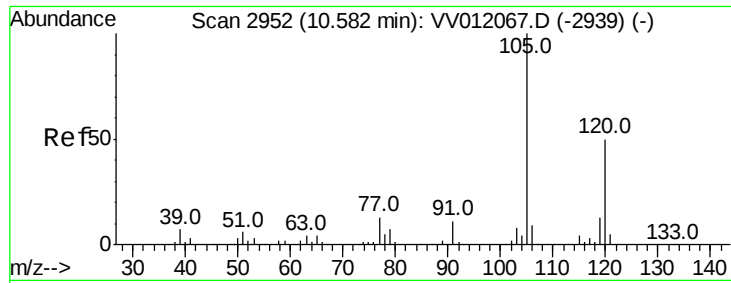
Delta R.T. 0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Tgt Ion:	75	Resp:	1161
Ion Ratio	Lower	Upper	
75	100		
77	43.7	26.8	40.2#
110	43.6	35.0	52.6





#62

1,3,5-Trimethylbenzene

Concen: 0.232 ug/L

RT: 10.58 min Scan# 2952

Delta R.T. -0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion:105 Resp: 7099

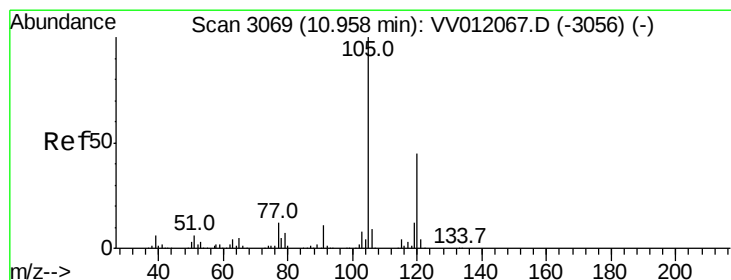
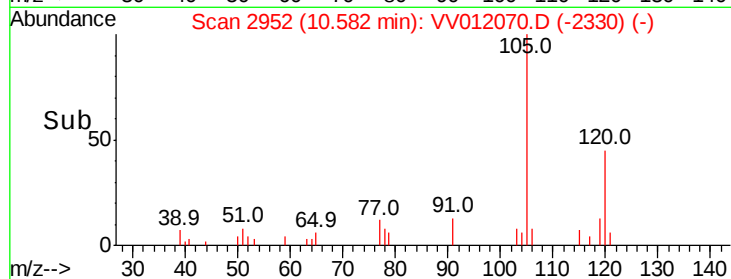
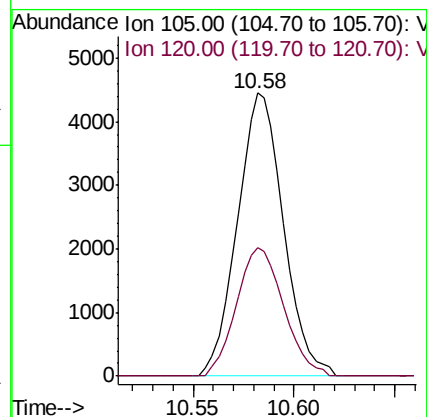
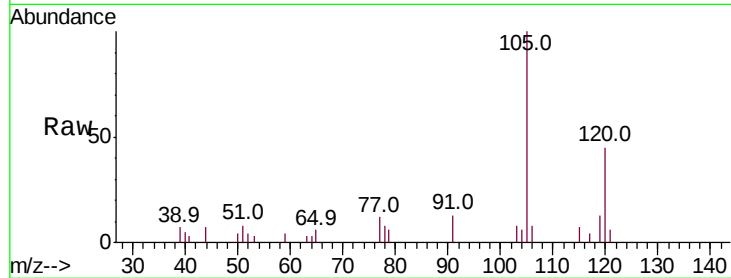
Ion Ratio Lower Upper

105 100

120 46.5 40.1 60.1

Manual Integrations
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#63

1,2,4-Trimethylbenzene

Concen: 0.216 ug/L

RT: 10.96 min Scan# 3069

Delta R.T. -0.00 min

Lab File: VV012070.D

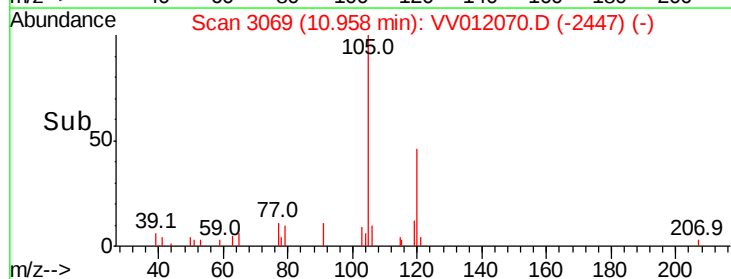
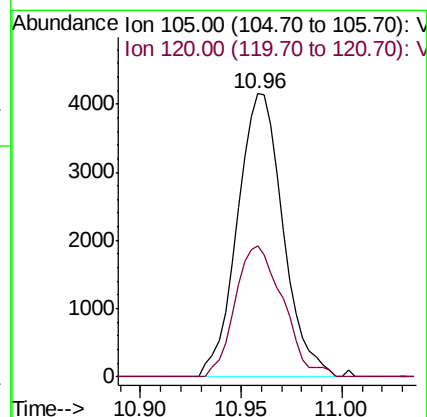
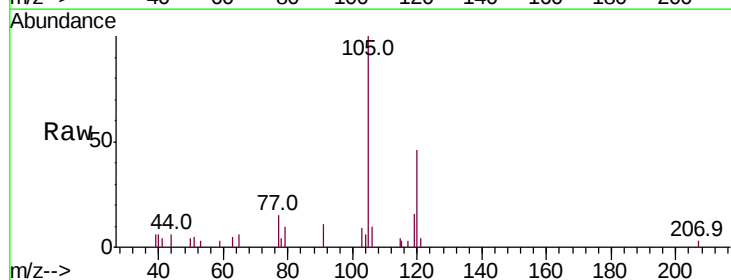
Acq: 30 Jul 2019 12:04

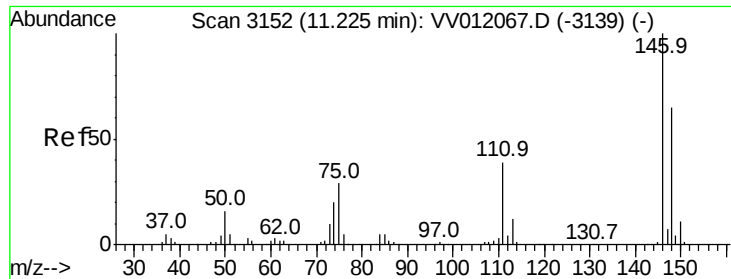
Tgt Ion:105 Resp: 6594

Ion Ratio Lower Upper

105 100

120 48.5 35.8 53.8





#64

1,3-Dichlorobenzene

Concen: 0.265 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Instrument :

MSVOA_V

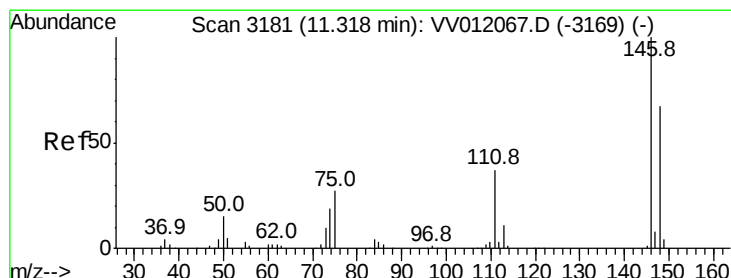
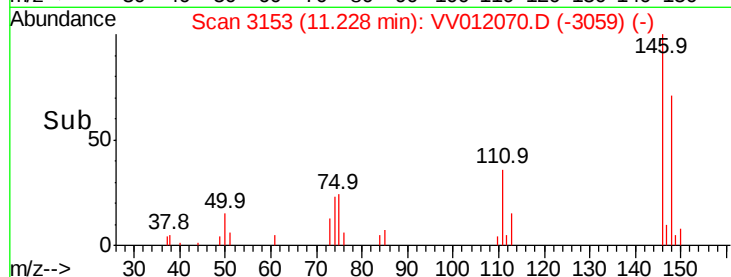
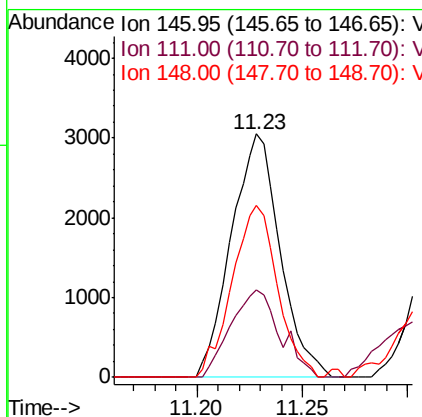
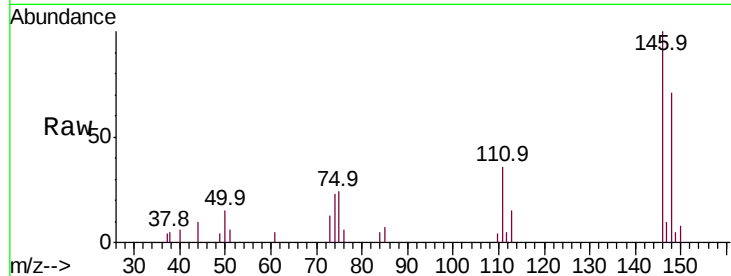
ClientSampleId :

MDL04

Tot Ion:	146	Resp:	4897
Ion	Ratio	Lower	Upper
146	100		
111	40.9	27.2	50.6
148	70.8	44.5	82.7

Manual Integrations
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#65

1,4-Dichlorobenzene

Concen: 0.271 ug/L

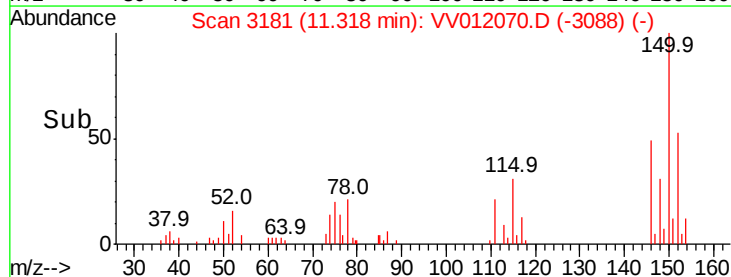
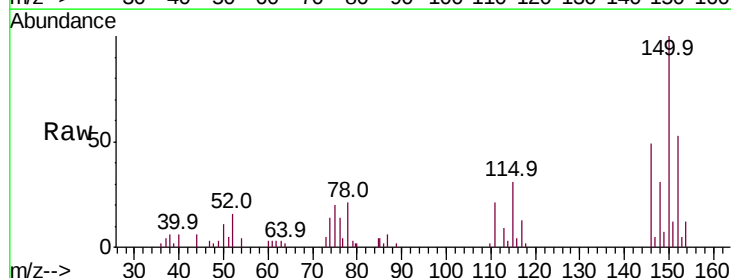
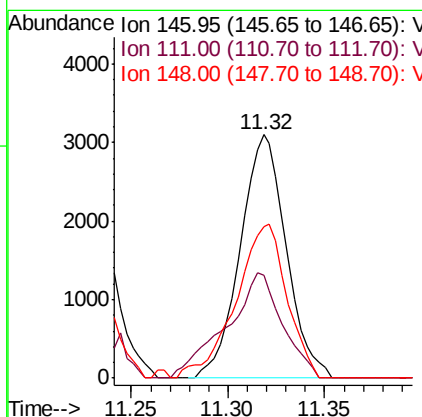
RT: 11.32 min Scan# 3181

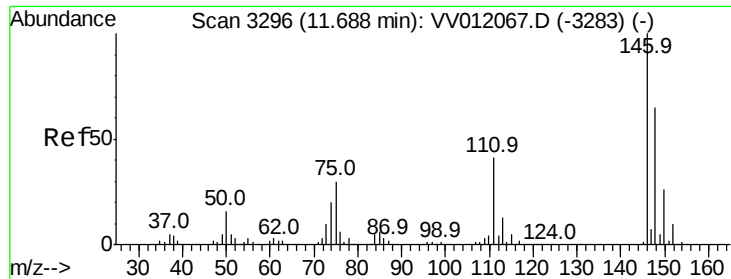
Delta R.T. -0.00 min

Lab File: VV012070.D

Acq: 30 Jul 2019 12:04

Tgt Ion:	146	Resp:	5109
Ion	Ratio	Lower	Upper
146	100		
111	42.0	25.8	48.0
148	62.4	43.8	81.3





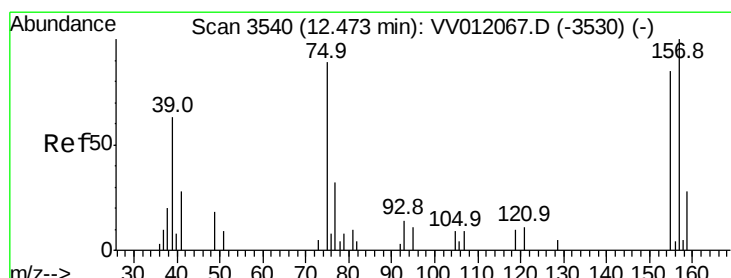
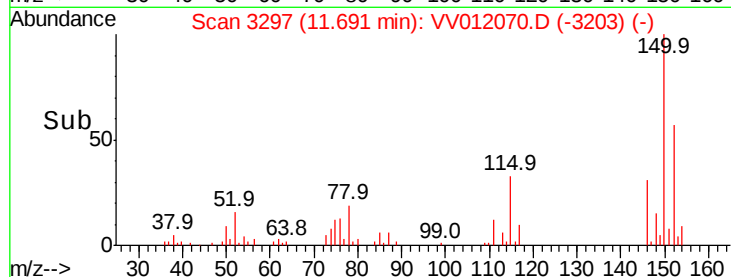
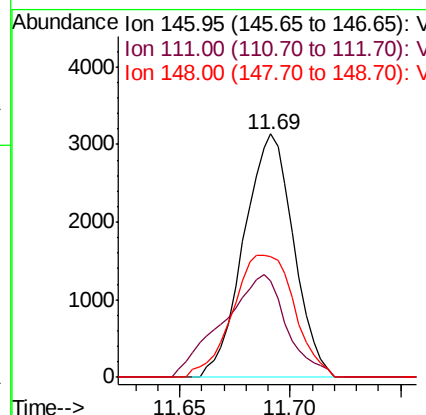
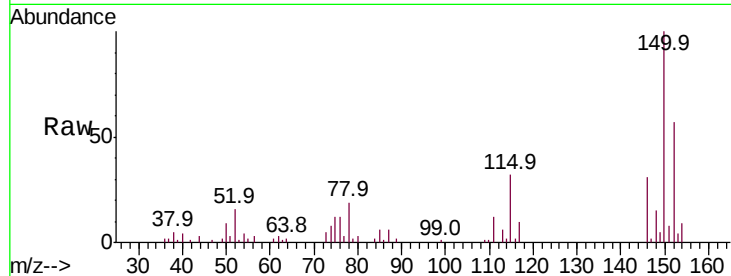
#67
 1,2-Dichlorobenzene
 Concen: 0.293 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV012070.D
 Acq: 30 Jul 2019 12:04

Instrument :
 MSVOA_V
 ClientSampled :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	32.4	48.6
148	49.8	49.4	74.0

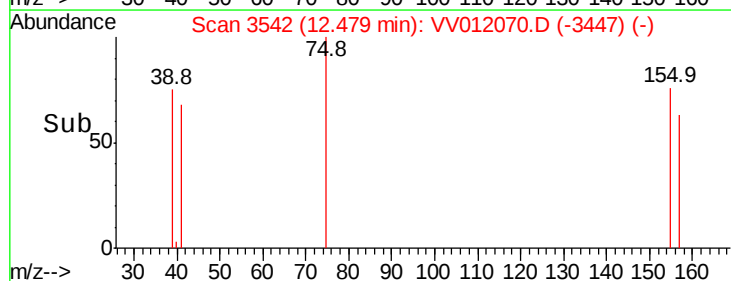
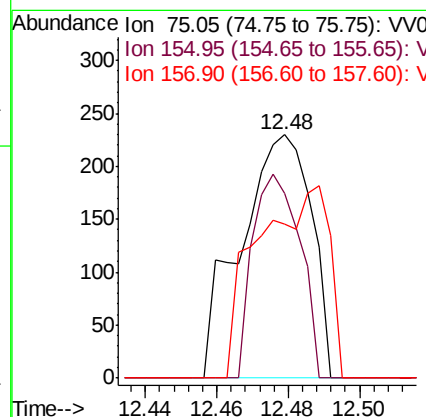
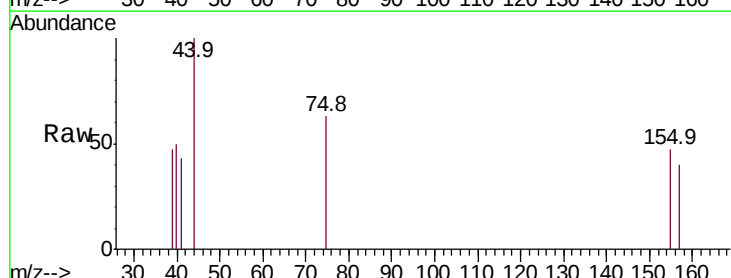
Manual Integrations
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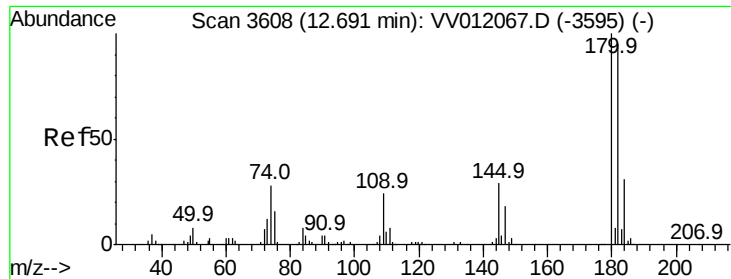
MMdadoda
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.362 ug/L
 RT: 12.48 min Scan# 3542
 Delta R.T. 0.01 min
 Lab File: VV012070.D
 Acq: 30 Jul 2019 12:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.7	75.0	112.6
157	63.0	87.8	131.6#





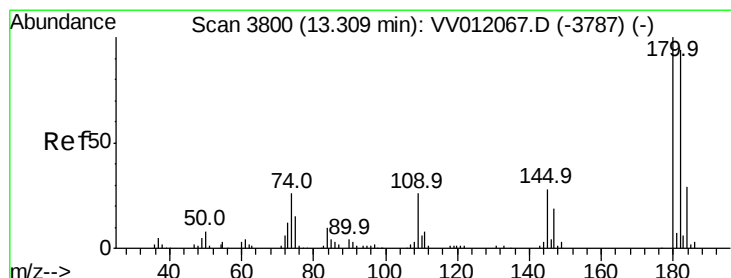
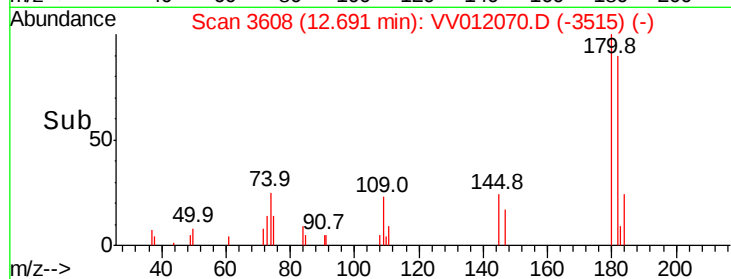
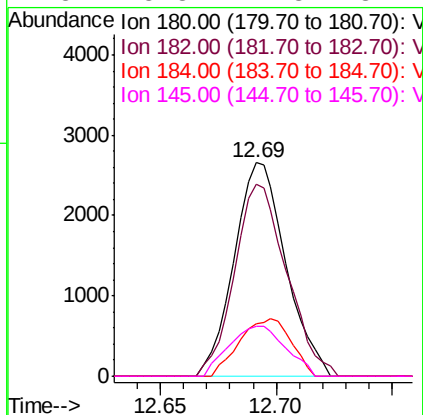
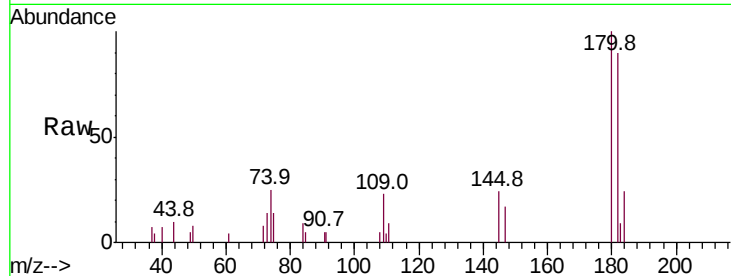
#69
 1,3,5-Trichlorobenzene
 Concen: 0.269 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV012070.D
 Acq: 30 Jul 2019 12:04

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion:	180	Resp:	4113
Ion	Ratio	Lower	Upper
180	100		
182	90.8	77.1	115.7
184	26.8	24.6	36.8
145	25.8	22.8	34.2

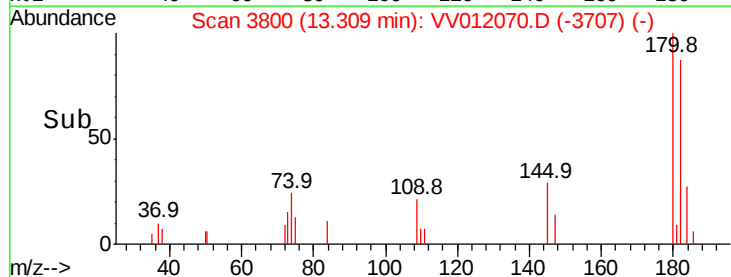
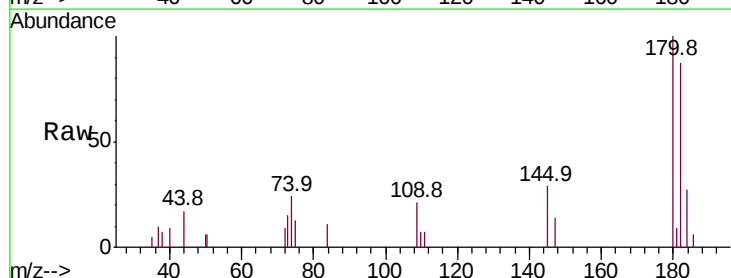
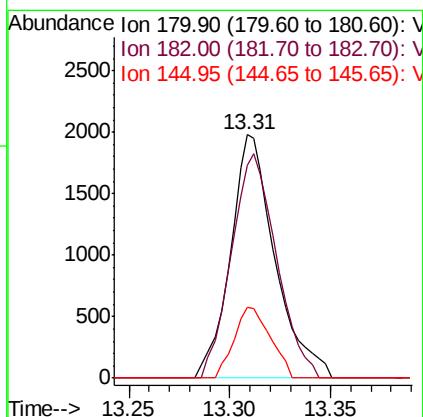
Manual Integrations
 APPROVED

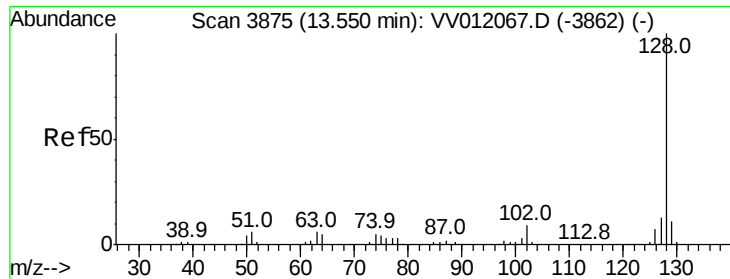
MMDadoda
 8/1/2019 3:18:21 PM



#70
 1,2,4-trichlorobenzene
 Concen: 0.253 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV012070.D
 Acq: 30 Jul 2019 12:04

Tgt Ion:	180	Resp:	3057
Ion	Ratio	Lower	Upper
180	100		
182	93.4	76.1	114.1
145	23.7	24.3	36.5#





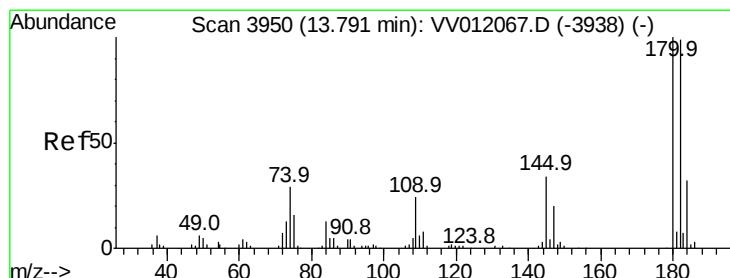
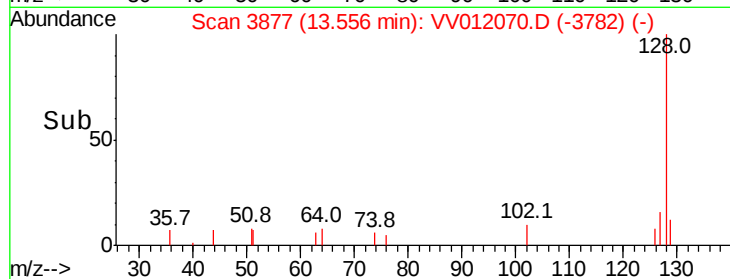
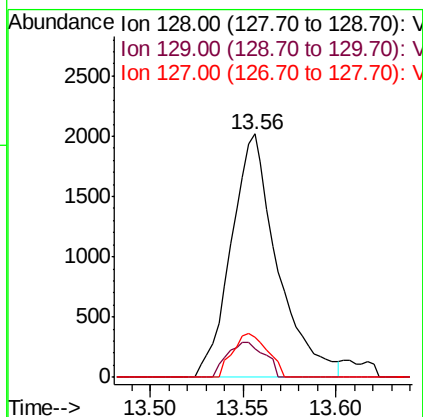
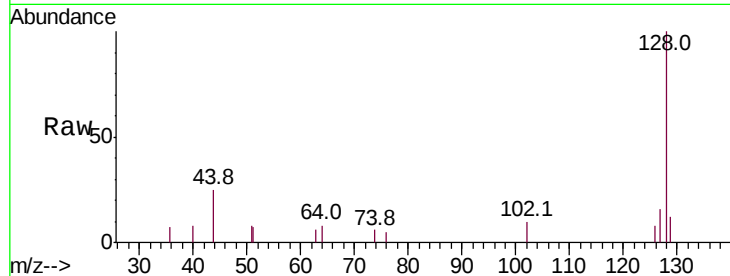
#71
Naphthalene
Concen: 0.208 ug/L
RT: 13.56 min Scan# 3877
Delta R.T. 0.01 min
Lab File: VV012070.D
Acq: 30 Jul 2019 12:04

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.1	13.7
127	13.5	10.4	15.6

Manual Integrations
APPROVED

MMDadoda
8/1/2019 3:18:21 PM



#72
1,2,3-Trichlorobenzene
Concen: 0.249 ug/L
RT: 13.79 min Scan# 3951
Delta R.T. 0.00 min
Lab File: VV012070.D
Acq: 30 Jul 2019 12:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.5	78.5	117.7
145	31.2	25.8	38.8

